A Reference Grammar of Russian

A Reference Grammar of Russian describes and systematizes all aspects of the grammar of Russian: the patterns of orthography, sounds, inflection, syntax, tense-aspect-mood, word order, and intonation. It is especially concerned with the meaning of combinations of words (constructions). The core concept is that of the predicate history: a record of the states of entities through time and across possibilities. Using predicate histories, the book presents an integrated account of the semantics of verbs, nouns, case, and aspect. More attention is paid to syntax than in any other grammars of Russian written in English or in other languages of Western Europe. Alan Timberlake refers to the literature on variation and trends in development, and makes use of contemporary data from the internet. This book will appeal to students, scholars, and language professionals interested in Russian.

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Russian

1.1 The Russian language

1.1.1 Russian then and now

The present study is a comprehensive description of all aspects (except word derivation) of modern standard Russian: its sounds, spelling, grammar, and syntax.

Russian has resulted from a long evolution that can be traced back to the first millennium of our era. From the fifth century on, speakers of Slavic established settlements over a vast area of Central and Eastern Europe, from the Danube in the south to the Elbe in the northwest. In the east, they moved north from the Dnepr valley to the Gulf of Finland and the Upper Volga, gradually displacing or assimilating the previous Baltic and Finnic inhabitants. Russian developed from the dialects of Slavic spoken in the north of this East Slavic territory. In the ninth century, the East Slavic area came under control of Scandinavian merchant-warriors. The Christianization of this land in 988 was followed by subjugation to “the Mongol yoke” from the thirteenth century into the fifteenth century. As the favored agent of the Golden Horde, the once small principality of Moscow brought ever more land under its control. By the end of the fifteenth century, when the Mongol yoke was definitively removed, Moscow had become the political and ecclesiastical center of the East Slavic lands, and the center of the Russian language area.

Russian is not only a spoken language, but a written language used for all cultural purposes. The modern form of Russian took shape over the course of the eighteenth century. The morphology and phonology is based on the dialect of Moscow. In its vocabulary, syntax, and rhetoric, Russian, while relying on native Slavic elements, has a long history of adapting and internalizing foreign – Byzantine, French, and most recently English – models.

Parenthetically, it could be noted that the modern word русский ‘Russian’ is an adjective deriving from the noun Русь ‘Rus’. According to a venerable etymology,

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1 See Sedov 1982 on the complex archeological record of the East Slavic area.
**Pусь** was a descriptive name for Scandinavians that is based on the Germanic etymon ‘to row’, the Scandinavians being above all oarsmen. In East Slavic lands, **Pусь** was used initially for the Scandinavian overlords and their principality of Kiev. Over time it was extended to all East Slavic lands. Muscovy appropriated the name for its political identity, culture, and language as it consolidated power.

Russian is the first language of approximately 150 million people. According to an estimate for 2002 the Russian Federation had a total population of 145 million people, among whom 81.5 percent, or 118 million, were ethnic Russians. In the mid-nineties, there were an additional 25 million Russians in the newly independent countries that emerged from the breakup of the Soviet Union (Novaia Rossiia 1994). Together that would make 143 million ethnic Russians. To that figure could be added a substantial though indeterminate percentage of the remaining 27 million members of other nationalities residing in the Russian Federation. According to recent statistics, the rate of population growth in the Russian Federation is negative (−0.33%), from which it would follow that the number of speakers of Russian will not increase in the foreseeable future.

### 1.1.2 Levels of language

Russian is a spoken language and a written language. In its written form Russian has long been highly codified: grammars, dictionaries, and manuals define standards for usage that are enforced in the educational system and through editorial practices in publication. Although the Russian tradition is quite clear about what usage counts as standard, it does acknowledge the existence of a range of varieties, or registers, from archaic to bookish to standard (normative) to colloquial (разговорная речь) to substandard and uncultured (просторечие). The grammar recorded here is the normative grammar of standard, written Russian, which is the culturally privileged, and also the most accessible, form of Russian. Occasionally, there are asides on usage in less-than-standard or oral language, but this study cannot treat colloquial Russian with the same attention as the works of E. A. Zemskaia and colleagues, which have documented the significant differences between spontaneous spoken Russian and formal, written Russian.

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2 Possible candidates are **Roer**, **Ro̞in**, former names for Sweden's Uppland region, and **rohs** ‘oar’, the genitive form used in compounding (Thomsen 1879:99–104, also Vasmer 1986–87: s.v. **Pусь**, de Vries 1962: s.v. **ródr**, Schenker 1995:57–60). A form of this etymon was adopted into West Finnic languages (Finnish **ruotsi** ‘Sweden’) and into Slavic, and then found its way into Greek ( póς) and Arabic (rūs) sources from the ninth and tenth centuries.

3 At: http://www.odci.gov/cia/publications/factbook/geos/rs.html#People.

Russian has undergone some change since the political and economic turmoil of the late eighties and early nineties, but it is difficult to assess how much. Most tangibly, there have been changes in vocabulary. Borrowing and native derivational processes have produced many new words and word combinations, leading to macaronic texts: нейл-арт ‘nail-art’, WEB-дизайн ‘WEB-design’, Некий бирмингемский ди-джей по имени Graham Mack ди-джеил себе, ди-джеил, да так и доди-джеился, что с радио ушел ‘A certain Birmingham DJ, named Graham Mack, DJ-ed, DJ-ed, and so DJ-ed out, that he had to leave the radio station’. This internationalized vocabulary now dominates the linguistic landscape, just as Soviet-speak used to dominate language a half century ago. Along with these changes in vocabulary has come a less quantifiable but still palpable change in the mores of language. Unedited, informal texts of written Russian of a type that would never have become public during the days of active Soviet censorship are now available in print and especially electronic form. And yet, despite political changes and a loosening of speech manners, contemporary Russian in its grammatical structure remains Russian.

1.2 Describing Russian grammar

1.2.1 Conventions of notation
The notational conventions employed here are those of Table 1.1.

In the body of the text, Cyrillic words and phrases will be given in italics, and English translations in single quotation marks. Stress is marked in citation forms of words or short phrases; stress is not marked on vowels in fragments of text cited in the text or in set-off numbered examples. In numbered examples, italics and quotations are not used.

1.2.2 Abbreviations
The abbreviations used in this study are listed in Table 1.2.

1.2.3 Dictionaries and grammars
The definitive dictionary of Russian in Russian is the Slovar’ sovremennogo russkogo literaturnogo iazyka, a seventeen-volume dictionary published over 1950–65. Self-evidently it does not include the numerous new words from the last several decades. Shorter Russian-language dictionaries are fully useful, notably Ozhegov’s one-volume classic, which conveniently lists grammatical forms with stress. More than adequate bilingual dictionaries are the Oxford dictionary (both directions) and now the Novyi Slovar’ (Russian to English), the most up-to-date

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5 Zemskaja 2000.
Table 1.1 Conventions used

<table>
<thead>
<tr>
<th>notation</th>
<th>interpretation</th>
</tr>
</thead>
<tbody>
<tr>
<td>NOM SG тетрыйб</td>
<td>grammatical gloss and Russian word</td>
</tr>
<tr>
<td>тетрыйб_{NOM SG}</td>
<td>alternative grammatical gloss of Russian word</td>
</tr>
<tr>
<td>г0_{GEN}</td>
<td>grammatical form conditioned by another word (preposition or verb)</td>
</tr>
<tr>
<td>«ё»</td>
<td>spelling of letter (or word) in Cyrillic, when spelling is at issue</td>
</tr>
<tr>
<td>[a]</td>
<td>sound (from narrow phonetic through broad phonetic to phonemic)</td>
</tr>
<tr>
<td>{ά} or {ά : ά : έ}</td>
<td>vowel series, or set of stressed and unstressed vowels related by etymology and/or synchronic alternation</td>
</tr>
<tr>
<td>{-ej} or -eи</td>
<td>morphological unit</td>
</tr>
<tr>
<td>{X : Y}</td>
<td>any relation of elements, notably two stems of verbs, {CVC-а-<em>{PSV/INF} : CVC-а-й-}</em>{PRS}</td>
</tr>
<tr>
<td>X ∼ Y</td>
<td>two forms potentially available in the same context</td>
</tr>
<tr>
<td>оставиться</td>
<td>aspect pair: perfective and secondary (derived) imperfective</td>
</tr>
<tr>
<td>махнуть</td>
<td>aspect pair: simplex imperfective and semelfactive perfective</td>
</tr>
<tr>
<td>просить or</td>
<td>aspect pair: simplex imperfective and prefixed perfective</td>
</tr>
<tr>
<td>просить махнуть</td>
<td></td>
</tr>
<tr>
<td>√/ ± / ? / *</td>
<td>hierarchy of acceptability judgments: neutral, acceptable, frequent / less preferred option / restricted, marginal / dubious, ungrammatical</td>
</tr>
</tbody>
</table>

dictionary available. A selection of dictionaries – Russian only and bilingual – is available on the web.

Russian dictionaries, unlike many dictionaries of English, do not give information about etymology, for which one should consult the dictionary of Max Vasmer (in its original German edition of 1953 or the Russian edition of 1986–87 revised by O. N. Trubachev), nor about earlier usage, for which one should use Srevenevskii’s “materials” for a dictionary of Old Russian from 1893–1912 (and later reprints), Slovar’ russkogo iazyka XI–XVII vv., or Slovar’ russkogo iazyka XVIII veka. Lubensky (1995) should be consulted for Russian idioms.

For grammatical information, the “grammatical dictionary” of A. A. Zalizniak (1977[a]), with 100,000 entries arranged in reverse alphabetical order, is definitive. Entries of the dictionary are indexed with paradigm numbers; exceptions are marked. The 142 introductory pages list paradigms with accentual contours.

A variety of grammars is available, including two compact grammars in English (Unbegaun 1957, Wade 1992), which, however, do not treat syntax extensively, as well as the multiple generations of “academy grammars” (for example,
<table>
<thead>
<tr>
<th>Table 1.2 Abbreviations used</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>abbreviation</strong></td>
</tr>
<tr>
<td>---------------------</td>
</tr>
<tr>
<td>C/C / R/W</td>
</tr>
<tr>
<td>C/C⁰</td>
</tr>
<tr>
<td>V/V / V</td>
</tr>
<tr>
<td>P/T/K/~š</td>
</tr>
<tr>
<td>C°/ C° / C°⁰ / C°¹ / C°² / C°³</td>
</tr>
<tr>
<td>[a] / [a] / [å]</td>
</tr>
<tr>
<td>R</td>
</tr>
<tr>
<td>NOM / ACC / GEN / DAT / LOC / INS</td>
</tr>
<tr>
<td>GEN1 / GEN2 // LOC1 / LOC2</td>
</tr>
<tr>
<td>NOM = ACC / ACC = GEN</td>
</tr>
<tr>
<td>SG / PL / DU</td>
</tr>
<tr>
<td>MSC / FEM / NT</td>
</tr>
<tr>
<td>AN / IN</td>
</tr>
<tr>
<td>PV</td>
</tr>
<tr>
<td>N N / QU / ADJ / PSS</td>
</tr>
<tr>
<td>Declension &lt; IA&gt;</td>
</tr>
<tr>
<td>Declension &lt; IA&gt;</td>
</tr>
<tr>
<td>Declension &lt; IB&gt;</td>
</tr>
<tr>
<td>Declension &lt; II&gt;</td>
</tr>
<tr>
<td>Declension &lt; III&gt;</td>
</tr>
<tr>
<td>Declension &lt; IIIA&gt;</td>
</tr>
<tr>
<td>Declension &lt; IIIB&gt;</td>
</tr>
<tr>
<td>Declension &lt; IIIC&gt;</td>
</tr>
<tr>
<td>R / E / A / F / T / M</td>
</tr>
<tr>
<td>PRS / PST / FUT / INF</td>
</tr>
<tr>
<td>IMV / IRR / RLS / PCL / DEE / PSV</td>
</tr>
<tr>
<td>1 SG / 1 PL / 2 SG / 2 PL / 3 SG / 3 PL</td>
</tr>
<tr>
<td>DIM</td>
</tr>
<tr>
<td>INTG</td>
</tr>
<tr>
<td>ПП / B / ПП ↔ ПП</td>
</tr>
<tr>
<td>ПП ↔ B / ПП ↔ B</td>
</tr>
<tr>
<td>Y' / H / O / φ</td>
</tr>
<tr>
<td>&quot;она&quot; &quot;взяла&quot; &quot;меня&quot; &quot;на базар&quot; &quot;благополучно&quot;</td>
</tr>
</tbody>
</table>
Reference Grammar of Russian (RG 1980). The four-volume “functional grammar” is superb (Bondarko 1991–96). Good grammars exist in other European languages (for example, Garde 1980 in French, Isačenko 1975 in German). The discussion below, though it is informed by this tradition of grammatical analysis, does not cite them in the interests of avoiding a clutter of references.

1.2.4 Statistics and corpora

To characterize how likely some construction is, it is often useful to cite statistics of usage. At the same time, it is important to acknowledge the limitations on statistical statements. The likelihood of using some or another morphological form or syntactic construction is really the likelihood of using the context in which the form or construction is appropriate; statistics ultimately measure how likely people are to say a whole context. For example, if we find that the combination у неё is less frequent than у нее, what we have really found is that the contexts in which у неё is appropriate occur less frequently than those in which у нее is appropriate. Any statistical statement, even one that appears to deal with morphological variants, is a measure of the frequency of the contexts in which these variants are appropriate. When the discussion below cites statistical observations, it is usually to say, informally and without pretense of scientific rigor, that a certain construction occurs surprisingly often or not particularly often, relative to what one might expect. The limitations on what statistical statements mean should always be kept in mind.

As a corpus for making statistical observations, I initially used the “Uppsala Corpus.” The corpus, assembled by the Slavic Institute of Uppsala University and mounted on the web by the University of Tübingen, offers a balanced selection of styles of texts through the 1980s; it has its own search. As time went on, I made use of the broader resources of the web. The address “http://www.lib.ru/” has a vastly larger number of (belletristic) texts. By using a powerful search engine (such as Google, Яндекс, or Rambler), it is possible to search this site or the whole web for words or phrases, and produce quantities of Russian larger by orders of magnitude than the Uppsala Corpus. For example, in the Uppsala Corpus, the target ins sg тысячей produced no tokens, the target у неё five tokens. In contrast, a search of http://www.lib.ru/ (with Google, <20.X.02>) produced 233 hits for тысячей and 796 for у неё; and on the whole web (with Google, <20.X.02>), there were 8,790 hits for тысячей and 25,900 for у неё. The new electronic resources, then, offer the possibility of vast quantities of Russian, most of it very contemporary.

At: http://www.sfb441.uni-tuebingen.de/b1/korpora.html. The description (<http://www.slaviska.uu.se/korpdesc.htm>) states that the corpus is based on 600 Russian texts, one million running words, of informative (late 1980s) and literary texts (1960–88).
There are, however, some negatives, which grow in proportion to the size of the corpus and the frequency of the target word or phrase. Unlike the Uppsala Corpus, which was designed to serve as a corpus and has a balanced selection of genres of texts, the web was not designed to serve as a corpus for linguistic investigation. The web has properties that make it less than ideal as a corpus: (a) the relative weight of genres – www.libr.ru is heavy on literary texts and translations (if one has hesitations about translations), while the web as a whole has a random mix of commercial writing, personal travelogues, detailed histories of the repair records of automobiles, journalism, and religious texts; (b) the quality of Russian, which includes translations, sites from outside Russia, and informal personal writing and commercial writing that is no longer subjected to the same editing as was Russian printed in the Soviet era; (c) the fact that many of the texts show up on more than one site, undercutting the value of statistical observations; (d) instability – the sites are not stable over time, impeding replication and verifiability; (e) the number of positive hits, which can be so large that the finite amount of time it takes to evaluate any token makes it difficult to examine all the data. The enormous volume of Russian available now is a mixed blessing.7

Allow me to cite cautionary tales. With respect to repetition: the phrase **уже открывал окно** ‘[he] already opened the window’ – a familiar phrase in aspectology – gave a modest forty hits on the whole web (<20.XII.01>). But every one of them was the same sentence from a text by A. Tolstoy. With respect to stability, I searched the web for the expressions **раньше него** ‘earlier than him’ and **в отношении него** ‘in relation to it’, and came up with 1,590 and 5,490 tokens, respectively (<20.XII.01>). The same search nine months later (<15.IX.02>) yielded 2,080 and 7,190 tokens – an increase of 17 percent. With respect to quantity: I searched the web (<20.X.02>) for tokens of **тысячей** – 8,790 hits – and **тысячью** – 10,800 hits – with the goal of finding out in crude terms the relative frequency of these two forms of the instrumental case of **тысяча**. It would take perhaps eighty hours to evaluate all that data, if a modest fifteen seconds were devoted to each token. In short, the investigator has no control over the web and no way of determining what its properties as a corpus really are. The Uppsala Corpus, though smaller, offers a more balanced corpus.

In light of such difficulties, it is important to emphasize the limitations on citations from the web. All statistical statements made on the basis of the web should be taken for what they are: informal characterizations of frequency over unstable, often repetitive, collections of Russian assembled for other (commercial, etc.) purposes than to serve as a corpus for linguistic investigation. The corpus is not stable and one cannot control for repetition.

7 Browne 2001 explores the problems of using the web as a corpus.
In the same vein, it is also important to register the disclaimer that there is no guarantee that specific websites, referred to occasionally below, will remain valid.

1.2.5 Strategies of describing Russian grammar
The discussion of Russian below follows an unsurprising sequence: after these preliminaries, ending with the writing of Russian, the discussion goes from sound to morphology (grammar in the traditional sense) to syntax – first arguments, then predicates, then predicates in context (tense, aspect, modality) – and finally, selected discourse operations that apply to the presentation of information. Obviously there are many topics that belong in two places – tense in participles is a question of morphology and of predicate semantics in context; the second genitive is a question of morphology, of arguments, and of predicates (since the use of the second genitive depends on the syntactic context) – and it was necessary to make decisions about where to put discussion. Cross-references are provided.

A word about the philosophy of grammar invoked here. Modern linguistics has prided itself on identifying basic, primitive elements (phonemes, morphemes, constituents of sentences) and their rules of combination. For some researchers, the ultimate goal is to characterize which sentences are possible, which impossible, and to state the rules of combination. My experience in assembling this grammar has led in a different direction. Repeatedly I found that what was significant was the construction – the pattern, the configuration, the template (трафарет). Patterns include all manner of linguistic knowledge: constituent elements; typical lexical items that participate; strategies of interpreting the meaning, or value, of the pattern in discourse; stylistic value – in short, patterns include all kinds of linguistic knowledge. The semantic, pragmatic, and stylistic values of a construction are not entirely predictable from its primitive elements and rules of combination, and though any construction certainly contains smaller entities, it is not always possible (or important) to identify the primitive elements. It becomes more important to say in what contexts, and with what meaning, a construction can be used. The whole is often greater than its parts. For example, the free (dative) infinitive construction (нам. <DAT> не миновать <INF> гибели ‘it is not for us to avoid disaster’, без революции нам. <DAT> не добьться <INF> совершения ‘without a revolution it is not for us to achieve perfection’) has recognizable parts: an infinitive, a dative that would be the subject if the infinitive were a finite verb, and the other argument phrases governed by the verb. There is no overt finite verb; no form of быть ‘be’ is used in the

\[8\] Zhivov and Timberlake 1997.
present tense. The meaning of this construction – it makes a prediction about the possibility of an imagined event – cannot be computed just from its constituent parts, the dative and the infinitive. Moreover, the construction has different variants, each of which has a specific stylistic value. The variant just illustrated is folksy, apodictic. Another variant of the construction used in content questions is neutral and productive, as in, Как попасть в начало списка найденных сайтов на поисковых машинах? ‘How [is it possible] to get to the beginning of the list of sites in search engines?’ Indeed, the initial portion of this question, Как попасть . . . ‘how [is it possible] to reach . . .’, produced 18,900 hits on the whole web (<20.X.02>). In general, then, the presentation of Russian grammar below emphasizes whole combinations and their value (including stylistic), downplaying the task of identifying primitive elements or articulating notations for encoding rules of combination.

When there are two closely related constructions that differ by one linguistic form – for example, relatives made with ктό vs. котόрый, genitive vs. accusative with negated verbs, etc. – it is an interesting question how speakers choose between the variants. In a notational approach to grammar, one can always create different structures that will produce different cases (for example). But because the structures will be distinct, there is no way of comparing the properties that distinguish them – the properties of the noun phrases, the discourse import – and such an approach says nothing about how speakers make choices. As an alternative, one can look for as many tangible variables as possible – variables such as the number of a noun, its position relative to the verb, the aspect of the verb – and measure their statistical contribution. But the result of a variable rule is only a probability, which does not explain how a speaker works with a half dozen to a dozen factors and makes a choice that is binary – to use one construction or another. In the following, I assume that speakers operate with templates (constructions) that have multiple properties – lexical to syntactic to discourse. In any instance, speakers ask which template a given utterance better matches. This is a holistic decision: in the genitive of negation, perhaps, speakers evaluate a context as being concerned with absence of a situation (genitive) as opposed to reporting an entity’s properties (accusative). To get to this holistic judgment, speakers ask which template better fits the context. And to answer that question, speakers probably have to select one feature to pay attention to, while others are ignored. In practical terms, this means it is difficult, for many constructions, to give watertight rules about usage (there are too many variables; speakers have some freedom in how they rank and evaluate variables). What can be done is to point out the general, holistic value of a construction, and, often, some tangible linguistic features that are consistent with that holistic value that will influence choices.
1.2.6 Two fundamental concepts of (Russian) grammar

While each construction, each problem of grammar, requires its own description, some general, recurrent ideas emerged. Two can be mentioned.

One is modality and the related concept of quantification. Every statement is understood against alternatives. Sometimes there is just a contrast of the mere fact that some $x$ having one salient property exists at all, in contrast to the possibility that $x$ might not hold, or that a certain situation $\phi$ holds in contrast to the possibility that $\phi$ might not exist (existential or essential quantification). Sometimes a specific individual $x$ or property $\phi$ is contrasted with other possible $x$'s or $\phi$'s (individuated quantification). Modality – consideration of alternatives by an authority – pervades grammar.

The other is directionality, dialogicity. An utterance does not exist or have meaning in isolation, but is manipulated by speakers and addressees in a three-step process. The speaker invites the addressee to construct a background of information, taken as given and known (first step). Against this background the speaker formulates, and the addressee evaluates, the current assertion (second step). On the basis of that comparison, the speaker and addressee then project further conclusions or anticipate further events (third step). Thus the speaker invites the addressee to engage in a directional process of manipulating information.

These concepts – modality (and quantification) and directionality – pervade the grammar of Russian and, no doubt, other languages.

1.3 Writing Russian

1.3.1 The Russian Cyrillic alphabet

Russian is written not in the Latin letters used for English and Western European languages but in an alphabet called Cyrillic (Russian кириллица). Cyrillic, with small differences, is also used for other languages – Ukrainian, Serbian, Bulgarian. Cyrillic will be used to write Russian throughout the discussion below, with certain obvious exceptions: in the discussion of sounds and the internal structure of words, in glosses of Russian words or phrases, and in citations of scholarly literature. For reference, the version of the Cyrillic alphabet used for modern Russian is given in Table 1.3. In Column 1 the alphabet is presented in the lower- and uppercase forms used in printing. Column 2 gives the italic variants. Column 3 gives longhand forms of lowercase and then uppercase letters as used in connected, cursive writing (unusual uppercase letters are omitted); the subsequent discussion, however, will not treat handwriting.9 The contemporary

9 With thanks to Victoria Somoff for the handwriting sample.
name of the letter is given in Column 4. These names are mostly transparent. The names of consonant letters have a vowel added to the sound of the consonant. Four unusual letters are referred to by descriptive phrases. For reference, Column 5 gives the older names of the letters. Column 6 states approximate sound values of individual Cyrillic letters in English, although there are obvious difficulties in attempting to state the sound of Cyrillic letters in terms of English sounds: the closest English sound is not always particularly close; individual Cyrillic letters do not represent just a single sound (consonants can be palatalized or not; vowel letters have different value depending on whether or not they follow consonant letters). The statements of sound value are quite approximate.

Because Cyrillic is an alphabet, by establishing correspondences between each individual Cyrillic letter and one or more Latin letters, it is possible to rewrite, or transliterate, Cyrillic into Latin letters. Column 7 is the table of equivalences established by the Library of Congress as used in slightly simplified form in this study. (Other systems are discussed later: §1.3.7.) The final column gives sources of the Cyrillic letters. The alphabet given in Table 1.3 is the contemporary alphabet. The civil alphabet used until the reform of the October Revolution included two additional letters: «й» “и десятеричное” (alphabetized between «и» and «к») and «ъ» “ять” (between «б» and «э»). Additional letters are found in Russian Church Slavic.10

From various people, one often hears that Russian must be a difficult language because its alphabet is so difficult. Nothing could be further from the truth. Whatever the difficulties of Russian, they cannot be blamed on the alphabet, which anyone with a modicum of ability in language systems and a vague acquaintance with the Greek alphabet can learn in half an hour, as will be demonstrated after a brief introduction to the history of the alphabet.

1.3.2 A brief history of the Cyrillic alphabet

The beginning of writing in Slavic is a fascinating tale that deserves to be told in brief.11 The story can be picked up at the end of the eighth century, around 796, when tribes of Slavs from the region of Moravia (in the south of the contemporary Czech Republic, along the Morava River) helped Charlemagne rid Central Europe of the last remnants of the Avars, a confederation of Eastern marauders. This venture marked the beginning of more active relations between Moravian Slavs and the West, both with secular political authorities (Charlemagne until his death in 917, his descendants thereafter) and with ecclesiastical

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Table 1.3 The Russian Cyrillic alphabet

<table>
<thead>
<tr>
<th>Cyrillic (print)</th>
<th>Cyrillic (italic)</th>
<th>Cyrillic (longhand)</th>
<th>contemporary letter name</th>
<th>archaic letter name</th>
<th>English equivalent (very approximate)</th>
<th>Library of Congress Romanization</th>
<th>etymology of letter</th>
</tr>
</thead>
<tbody>
<tr>
<td>а/А</td>
<td>a/A</td>
<td>a</td>
<td>а</td>
<td>аз</td>
<td>Masha</td>
<td>all</td>
<td>a</td>
</tr>
<tr>
<td>б/Б</td>
<td>b/B</td>
<td>b</td>
<td>бэ</td>
<td>буки</td>
<td>bother</td>
<td>v</td>
<td>b</td>
</tr>
<tr>
<td>в/В</td>
<td>в/V</td>
<td>в</td>
<td>вэ</td>
<td>веди</td>
<td>Volga</td>
<td>v</td>
<td>v</td>
</tr>
<tr>
<td>г/Г</td>
<td>г/Г</td>
<td>г</td>
<td>гэ</td>
<td>глагол</td>
<td>guard</td>
<td>g</td>
<td>g</td>
</tr>
<tr>
<td>д/Д</td>
<td>d/D</td>
<td>д</td>
<td>добро</td>
<td>добро</td>
<td>do</td>
<td>d</td>
<td>d</td>
</tr>
<tr>
<td>е/Е</td>
<td>e/E</td>
<td>е</td>
<td>есть</td>
<td>есть</td>
<td>Pierre</td>
<td>є</td>
<td>e</td>
</tr>
<tr>
<td>е/Е</td>
<td>e/E</td>
<td>е</td>
<td>[je]</td>
<td>есть</td>
<td>Pierre</td>
<td>є</td>
<td>e</td>
</tr>
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<td>ж/Ж</td>
<td>ж/Ж</td>
<td>ж</td>
<td>жэ</td>
<td>живите</td>
<td>azure, French je</td>
<td>zh</td>
<td>zh</td>
</tr>
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<td>з/З</td>
<td>з/З</td>
<td>з</td>
<td>зэ</td>
<td>земля</td>
<td>zoo</td>
<td>z</td>
<td>z</td>
</tr>
<tr>
<td>и/И</td>
<td>и/И</td>
<td>и</td>
<td>и</td>
<td>beat</td>
<td>eat</td>
<td>i</td>
<td>i</td>
</tr>
<tr>
<td>й/с</td>
<td>й/с</td>
<td>й</td>
<td>й и краткое</td>
<td>й и краткое</td>
<td>boy</td>
<td>i</td>
<td>i</td>
</tr>
<tr>
<td>к/К</td>
<td>к/К</td>
<td>к</td>
<td>ка</td>
<td>како</td>
<td>car</td>
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<td>k</td>
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<td>л/Л</td>
<td>л</td>
<td>эль</td>
<td>эль</td>
<td>Leeds</td>
<td>l</td>
<td>l</td>
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<td>м/М</td>
<td>м/М</td>
<td>м</td>
<td>эм</td>
<td>мыслите</td>
<td>Masha</td>
<td>m</td>
<td>m</td>
</tr>
<tr>
<td>н/Н</td>
<td>н/Н</td>
<td>н</td>
<td>эн</td>
<td>наш</td>
<td>go</td>
<td>n</td>
<td>n</td>
</tr>
<tr>
<td>о/О</td>
<td>o/O</td>
<td>о</td>
<td>он</td>
<td>он</td>
<td>go</td>
<td>o</td>
<td>o</td>
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<td>п/П</td>
<td>п</td>
<td>пэ</td>
<td>покой</td>
<td>pot</td>
<td>p</td>
<td>p</td>
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<td>р/Р</td>
<td>р</td>
<td>эр</td>
<td>цры</td>
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<td>с/С</td>
<td>с/С</td>
<td>с</td>
<td>эс</td>
<td>слово</td>
<td>sew</td>
<td>s</td>
<td>s</td>
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<td>Cyrillic (print)</td>
<td>Cyrillic (italic)</td>
<td>Cyrillic (longhand)</td>
<td>contemporary letter name</td>
<td>archaic letter name</td>
<td>English equivalent (very approximate)</td>
<td>Library of Congress Romanization</td>
<td>etymology of letter</td>
</tr>
<tr>
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<tr>
<td>т/Т</td>
<td>т/Т</td>
<td>т</td>
<td>тэ</td>
<td>твердо</td>
<td>toe</td>
<td>t</td>
<td>Gk Т</td>
</tr>
<tr>
<td>у/У</td>
<td>у/У</td>
<td>у</td>
<td>ук</td>
<td>do</td>
<td>oops</td>
<td>u</td>
<td>Gk Y</td>
</tr>
<tr>
<td>ф/Ф</td>
<td>ф/Ф</td>
<td>ф</td>
<td>ферт</td>
<td>far</td>
<td></td>
<td>f</td>
<td>Gk Ф</td>
</tr>
<tr>
<td>х/Х</td>
<td>х/Х</td>
<td>ха</td>
<td>хер</td>
<td>German ach</td>
<td></td>
<td>kh</td>
<td>Gk X</td>
</tr>
<tr>
<td>ц/Ц</td>
<td>ц/Ц</td>
<td>ц</td>
<td>цы</td>
<td>tsetse, prints</td>
<td>ts</td>
<td>Gl ¥</td>
<td></td>
</tr>
<tr>
<td>ч/Ч</td>
<td>ч/Ч</td>
<td>ч</td>
<td>червь</td>
<td>church</td>
<td>ch</td>
<td>Gl ϝ</td>
<td></td>
</tr>
<tr>
<td>ш/Щ</td>
<td>ш/Щ</td>
<td>ша</td>
<td>ша</td>
<td>shallow, fish</td>
<td>sh</td>
<td>Gl Ш</td>
<td></td>
</tr>
<tr>
<td>щ/Щ</td>
<td>щ/Щ</td>
<td>ща</td>
<td>шта</td>
<td>Josh should, fish shop</td>
<td>shch</td>
<td>Gl ¥</td>
<td></td>
</tr>
<tr>
<td>ъ</td>
<td>ъ</td>
<td>твердый знак (ер∞)</td>
<td>ер</td>
<td>[boundary marker]</td>
<td>&quot;</td>
<td>Gl Щ</td>
<td></td>
</tr>
<tr>
<td>ы/Ы</td>
<td>ы/Ы</td>
<td>ы, еры∞</td>
<td>еры</td>
<td>pituitary</td>
<td>y</td>
<td>Gl Щ</td>
<td></td>
</tr>
<tr>
<td>е/э</td>
<td>е/э</td>
<td>мягкий знак (ерь∞)</td>
<td>ерь</td>
<td>[consonant palatalized]</td>
<td>'</td>
<td>Gl Щ</td>
<td></td>
</tr>
<tr>
<td>э/з</td>
<td>э/з</td>
<td>э оборотное</td>
<td>-</td>
<td>best</td>
<td>Evan</td>
<td>e</td>
<td>Cyr e/E</td>
</tr>
<tr>
<td>ю/Ю</td>
<td>ю/Ю</td>
<td>ю</td>
<td>ю</td>
<td>cute</td>
<td>yule</td>
<td>iu</td>
<td>Gl Щ</td>
</tr>
<tr>
<td>я/Я</td>
<td>я/Я</td>
<td>я</td>
<td>я</td>
<td>Diaghilev</td>
<td>Yalta</td>
<td>ia</td>
<td>Cyr iا</td>
</tr>
</tbody>
</table>

x | y = pronunciation after consonant letter | pronunciation not after consonant letter
Gк = Greek
Gl = Glagolitic
Сyr = (earlier) Cyrillic
x∞ = older name still used (SR1a 1.152)
authorities. As part of this interaction, missionaries were sent to the Moravi-
ans from the Franks (from the relatively new bishoprics of Regensburg, Passau,
Salzburg) and from the Italians (from the bishopric of Aquileia). The conversion
of Prince Mojmír of Moravia (r. 818–46) in 822 was followed by a general baptism
in 831. In this period of missionary activity, churches – some in stone – were
constructed at sites in Moravia such as Mikulčice.

In 846, Mojmír’s nephew Rostislav took control and began to act with greater
autonomy. After the bishopric of Salzburg had its charter renewed in 860, Ros-
tislav took steps to avoid further ecclesiastical interference from the Franks. In
862, after having been put off by the Pope, he approached the Byzantine Emperor
Michael III with a famous request:

Though our people have rejected paganism and observe Christian law, we have not
a teacher who would explain to us in our language the true Christian faith, so that
other countries which look to us might emulate us. Therefore, O lord, send us such
a bishop and teacher. (Kantor and White 1976:45)

Emperor Michael and Patriarch Photius responded by sending Constantine
(canonized as St. Cyril) and Methodius, two brothers educated in Greek who
spoke a Slavic language, to Moravia to train disciples and translate the liturgy
and the Bible into Slavic. In order to write in Slavic, they devised an alphabet
which is now called Glagolitic. The letters of Glagolitic are stylized combinations
of strokes and loops; for example, the chapter title for Luke 11 (Marianus) reads
in Glagolitic, "o vobkaya" (i.e., "on the catching of fish"). It is still an open question what sources Constantine and Methodius
used for this new alphabet. It has long been assumed that the model was Greek
minuscule, but it may have been cursive of a Latin (specifically Carolingian)
type. Whatever the source of the alphabet, writing in Slavic has its origins in
the “Moravian mission” of Constantine (St. Cyril) and Methodius.

The Moravian mission began auspiciously. It was given papal approval when
the brothers traveled with their disciples to Rome (867). After Constantine died
in Rome (869), Methodius was appointed bishop of a large missionary area in-
cluding Moravia and Pannonia. In the long run, however, the mission proved vul-
nerable. It was resented by the Frankish bishops, who went so far as to imprison

12 Jagić 1883 (interleaf 110–11, 186).
13 Beginning with Taylor (1880, 1883), who exhibited apparent similarities between individual
Glagolitic letters and Greek minuscule letters.
14 Lettenbauer 1953 (summarizing an inaccessible study, Hocij 1940) cites intriguing pairs of
Glagolitic and Carolingian letters. For example, the Carolingian “ɔ” is a vertical arc open on
the left, with loops both on the top and at the bottom, hence very similar to the double loop
of Glagolitic “させて頂”; Taylor’s Greek cursive omicron has no loops. Taylor’s Greek cursive “l” looks
like a modern English cursive “l”, with an internal loop (that is, “l”), very unlike the Glagolitic
double-looped “l”, which looks like the Carolingian.
Methodius until the Pope secured his release. Rostislav, the Moravian prince who originally sponsored the mission, was blinded and exiled. When Methodius died in 885, a hostile bishop (Wiching of Nitra) chased out the troublemakers and reinstated the Latin rite. Disciples of Constantine and Methodius were fortunate to make it to Ohrid and Bulgaria.

In Bulgaria, Tsar Boris, who had initially converted to Christianity in 863, held a council in Preslav in 893, at which he abdicated, turned over power to his pro-Christian son Symeon, and appointed Clement, one of the original Moravian disciples, as bishop. Around this time, conceivably at this council, the practice was established of writing religious texts in Slavic in letters that were modeled to the extent possible on Greek majuscule letters. (For Slavic sounds that had no equivalents in Greek, letters were adapted from Glagolitic.) This neophyte Christian culture, with sacred texts written in Slavic in this Greek-like alphabet, flourished in Bulgaria in the first half of the tenth century, until the time (in 971) when Byzantium defeated Boris II and absorbed the Bulgarian patriarchate. This tradition of writing was brought to Rus as a consequence of the conversion to Christianity in 988. The alphabet that was imported was the direct ancestor of the alphabet in which modern Russian is written, the alphabet we call “Cyrillic.” As this brief sketch shows, Cyril himself did not invent the Cyrillic alphabet. But he and his brother did invent the alphabet in which Slavic was written systematically for the first time, and the alphabet they constructed did provide the model for Cyrillic.

After having been brought into East Slavic territory, this alphabet was used in the oldest principalities of Kiev, Novgorod, and Vladimir-Rostov-Suzdal from the eleventh century on, and then subsequently in Moscow, the principality that emerged as dominant as the “Mongol yoke” was loosened. This alphabet has continued to be used with only modest changes until the present day. Peter the Great attempted to reform the orthography in 1708–10. His new civil alphabet (гречанка) had letters of a cleaner, less ornate (more Western) shape. Peter also proposed that, in instances where more than one letter had the same sound value, only one letter be preserved, the first of the sets «ψ/ϑ» for the sound [i], «ζ/з» for [z], «Ѳ/ω» for [o], «Ф/φ» for [u], «Ф/ϕ» for [f]; some other letters with quite specific functions («Ѳ/φ») were also to be eliminated. Although all of Peter’s proposals did not catch on, his initiatives led to modernizing the graphic shape of the alphabet and set in motion the process of rationalizing the inventory of letters. While the general trend has been to simplify the

16 The similarity is quite striking between early Cyrillic writing and contemporary Greek Gospels, for example Lord Zouche’s gospel text from 980 (Plate IV, Gardtgauzen 1911).
inventory of letters, «й э ё» were introduced in the course of the eighteenth century.

Russian Cyrillic took its contemporary form in a reform of October 1918, which built on the results of earlier commissions (most immediately, the commission of 1917). The notable changes were that remaining duplicate letters were eliminated («й» in place of «й», «е» for «ê», «ф» for «φ») and the “hard sign” «ъ» was eliminated from the ends of words after consonant letters, where it had previously been required. For example, nineteenth-century «ьдьм» ‘demon’ became «бес». Other changes concerned the spelling of specific morphemes (for example, adjectival masc sg «аго» in place of «аго»).

The principles established in 1918 were canonized by the publication of Rules of Russian Orthography (= Pravila) in 1956. The principles and detailed rules have largely been stable, despite occasional discussions of possible further reforms of some annoying – but in the larger scheme of things, insignificant – inconsistencies (for example, in 1964).18 There was uncertainty, and continues to be uncertainty, with respect to the vexed question of how much to use «ё». Other unresolved questions include: use of the hard sign «ъ» as mark of separation; spelling of «й» or «ы» after «и»; spelling of «е(ё)» or «о» after «ж ш щ»; spelling of «ьо» and «йо» in borrowings; use of «о» after consonants; use of double letters in borrowings. At this moment, there is a renewed impetus to address certain details of writing, notably those involving compounds.19

1.3.3 Etymology of letters

As noted, most Cyrillic letters were based on Greek upper case (majuscule) letters. Most of the contemporary Cyrillic letters look like Greek letters, and as a first approximation they can be read as one might expect on that basis. Among Cyrillic letters for consonants, we observe the following similarities (Greek majuscule prototypes are written in parentheses; the approximate sound value is recorded in Table 1.3): «Г/Г» (Greek Γ); «Д/Δ» (Δ); «З/З» (Z); «К/Κ» (Κ); «Л/Λ» (Λ); «М/Μ» (Μ); «Н/Η» (Η); «П/Π» (Π); «Р/Ρ» (Ρ); «Σ/Σ» (σ/Σ); «Т/Т» (Τ); «Ф/Φ» (Φ); «Х/Χ» (Χ). From the single Greek β/β, Cyrillic has «б/Б» (a bilabial stop [b]) and «в/В» (a labio-dental fricative [v]).

The consonant sounds of Slavic that did not have obvious correspondences have unique symbols without any obvious source in the Greek or Latin alphabets; they apparently derive from Glagolitic, which did have distinct letters for these sounds: «Ж/Ж», «Ц/Ц», «Ч/Ч», «Ш/Ш», «Щ/Щ». Though these letters are unfamiliar, sounds somewhat similar to those represented by these letters occur

18 Comrie, Stone, and Polinsky 1996 (ch. 8) gives a comprehensive survey from 1917 forward (see also Chernyshev 1947). For the eighteenth and nineteenth centuries, see Grot 1873.
19 Proposals and rejected changes were accessible on www.gramota.ru/<01.XII.01>.
in European languages. The most exotic is the sound spelled as 「щ/Щ」, a consonant of double length; it can be approximated by combining two tokens of the sound written in English as 「sh」 in two words: Josh should, fish shop.

Vowel letters are largely based on Greek prototypes. As discussed below, there are two parallel sets of vowel letters. In the first set (hard-vowel letters) we find: 「а/А」 (Greek α/Α), 「е/Е」 (an innovation, based on older Cyrillic 「є」), 「о/О」 (Greek о/Ο), 「у/У」 (Greek у/Υ), 「ы/Ы」 (derived from a combination of two letters, the uniquely Slavic letter 「ь」 and the Slavic adaptation of Greek ι/І). The sound corresponding to 「ы」 is perhaps the single most difficult for non-natives to pronounce. Some Russians use this sound as a substitute for the vowel of pit or hip in speaking English. A closer approximation would be a vowel that changes from a [u]-like vowel to an [i]-like vowel, something like pituitary or phooey, but pronounced as one syllable, not two. In the other set of vowel letters (soft-vowel letters), two derive from Greek: 「е/Е」 (from Greek е), pronounced as [e], and 「и/И」 (Greek η/Η), pronounced as [i]. One has a source in Glagolitic 「о/О」 = the sound [u] and two others arose in the history of Russian Cyrillic writing 「я/Я」 = the sound [a]; 「и/И」, derived from Cyrillic 「є/Е」 = the sound [о] (O).

Identifying the etymology of letters does not, of course, explain how the Cyrillic alphabet works. But it should make it clear that the majority of the letters, in their graphic shape and (approximate) sound value, are familiar from a cursory acquaintance with the Greek alphabet.

1.3.4 How the Cyrillic alphabet works (basics)
The Cyrillic alphabet is a good guide to pronunciation. It is generally clear how a sequence of letters should be pronounced. One complication is that in every word in Russian one vowel is strongly stressed, and the remaining unstressed vowels are pronounced less clearly than the one stressed vowel (unstressed vowels are “reduced”). Once one knows which syllable is stressed, phonetic reduction is not difficult for speakers of English. Unstressed vowels are commonly the indistinct “schwa” vowel; Russian Măua is pronounced with [а] in the second syllable, thus [машуа], much as the final vowel of the English version of this name, Masha, is spoken. However, most writing does not indicate which vowel is stressed. In this respect, spelling does not give complete information about pronunciation.

To understand how the Russian Cyrillic alphabet works, it is necessary to mention one fact about consonant sounds. Most consonants can be pronounced in two significantly different ways: not palatalized, when they are somewhat similar to consonants in English, or palatalized, when the tongue is raised towards the front and top of the mouth, towards the area behind the teeth. The effect of palatalization is similar to the beginning of English few, pew, or, in one
pronunciation, *tutor, duke*, with the difference that in English, there is a distinct segment between the consonant and the vowel, while in Russian, this raising of the tongue extends over the duration of the consonant. In Western sources, there are many ways of representing palatalization in consonants. It is common to write a superscripted letter (≤iyj≥) after the consonant to indicate that there is a brief transition to the following vowel similar to a vowel [i]; thus the familiar word *net ‘no*, in which the “n” sound is palatalized, might be written as [n‘et] or [n’et] or [n‘et]. An alternative is to write an apostrophe or acute accent above or after the consonant letter, [n’et] or [net] or [n‘et] In this study, palatalization will be written as a cedilla, [n˛et], for the reason that palatalization is generally pronounced throughout the duration of the consonant; it is not just a transition to the following vowel. (When it is important to emphasize that a consonant or group of consonants is not palatalized, the degree sign is placed after the consonant letter: “C°.”) The mutable consonants – those that can be either palatalized or not – are the consonants spelled by the letters «п б в ф м т д с з н к г х р л». The remaining consonants, those spelled by the letters «ч ц ш ж ц», are immutable: they are either intrinsically palatalized (the sounds [t j:] spelled by «ч ц») or intrinsically not palatalized (the sounds [s z c] spelled by «ш ж ц», respectively). Informally in the Russian tradition, consonants that are not palatalized are called “hard,” palatalized consonants “soft.” This convenient informal characterization is often used in the following.

The most important fact about Russian orthography is that it is organized around the question of how to spell palatalization in consonants. As noted above, there are two sets of vowel letters. Vowel letters indicate not only what vowel is to be pronounced (as might be expected), but they also indicate what sounds come before the vowel. In particular, letters of the soft set «и е я ё ю» indicate that the preceding consonant is palatalized when they follow a consonant letter from the set of mutable consonants «п б в ф м т д с з н к г х р л». Thus: «я» = the sound [a] plus palatalization of the consonant, as in «Диагилев» ‘Diaghilev’, pronounced [djal]; «ю» = the vowel [u] plus palatalization in the preceding consonant, as in «рюмка’ ‘wineglass’ pronounced [rümka]; «е» = the sound [e] plus palatalization, as in «нет», pronounced [jet]; «ё» = the sound [o] plus palatalization, as in the name «Федор», pronounced [fodør]; and «и», as in the name «Дима», pronounced [dimə]. If no consonant letter precedes – at the beginning of a word, after another vowel, or after the boundary signs «ь ъ» (discussed separately below) – a soft-vowel letter as a rule indicates that the glide sound [j] precedes the vowel. Thus, at the beginning of the word, the soft-vowel letter «я» is pronounced with [j] before the [a] sound, as in «Ялта» – that is, [jalta], whence the common English form Yalta (in Library of Congress transliteration, *lalta*); the soft-vowel letter «ю» begins with [ju], as in «Юрий»,
whence English Yuri (Library of Congress Iurii); after a vowel, the soft-vowel letter «е» is automatically pronounced with [je], as in «Достоевский», as is indicated by one of the possible English spellings, Dostoevsky.

Letters from the set of “hard-” vowel letters «ы э а о у» indicate which vowel is pronounced and, when they follow a consonant letter from the set of mutable consonants «п б в ф м т д с з н к г х р л», they indicate that the preceding consonant is not palatalized: «Маша» ‘Masha’ indicates that [m] is followed by [a], and the [m] is not palatalized; «Путин» ‘Putin’ indicates that unpalatalized [p] is followed by [u]. When no consonant letter precedes – at the beginning of a word or after another vowel letter – a vowel from this set indicates that there is no [j] before the vowel: «альта» ‘viola’ [alt] begins with [a], not [ja]; «утка» ‘duck’ [útka] begins with [u], not [ju].

After the consonant sounds spelled by the letters «ч щ ш ж ц», which are pronounced the same regardless of the following vowel, a mixed set of vowels is used (§1.3.5).

When no vowel letter follows directly after the consonant letter, palatalization is marked by a special symbol «ъ», called the “soft sign” (мягкий знак). For example, the «ъ» at the end of «мать» ‘mother’ tells us that the sound of «т» is palatalized [t], and «ъ» tells us that the initial consonant sound of «тьма» ‘darkness’ is palatalized [t].

The principles of Russian orthography can be presented as a set of branching decisions involving combinations of vowel letters and contexts, as in [1].

[1] Algorithms of Russian spelling

if a consonant is spelled by «ч щ ш ж ц», it is pronounced the same in all contexts;

it can be spelled at the end of words or before another consonant letter; a following vowel letter is one of the set «и е а о у»

if a consonant is spelled by «п б в ф м т д с з н к г х р л», it is pronounced as palatalized (soft) if

it is followed by «ъ» at the end of a word or before another consonant letter; or, a following vowel letter is one of the set «и е я ё ю»;

if a consonant is spelled by «п б в ф м т д с з н к г х р л», it is pronounced as non-palatalized (hard) if

it occurs at the end of a word or before another consonant letter; or, a following vowel letter is one of the set «ы э а о у».

1.3.5 How the Cyrillic alphabet works (refinements)
In each of the two sets – hard-vowel letters «ы э а о у» and soft-vowel letters «и е я ё ю» – the letters behave in a similar fashion up to a point, but there are some idiosyncrasies. The basic properties of vowel graphemes and the operational
Asymmetries and irregularities include the following. The pair <ы> vs. <и> is similar to other pairs at least to the extent that <и>, as a soft-vowel letter, marks a mutable consonant as palatalized (thus <ти> implies [ii]), while <ы> marks a consonant as not palatalized (thus <ты> implies [ti]). In this respect the pair <ы/и> is parallel to the pairs <а/я>, <у/ю>. However, there is one important respect in which <и> does not behave the same as other soft-vowel letters. When <и> is used in initial position or after a vowel, it does not imply a preceding [j]. Thus no [j] occurs initially in «Игорь», English Igor, which is pronounced [igər], not *[jigər]; and no [j] occurs between the vowels of «Раиса», English Raisa (pronounced [raɪsə], not *[rajɪsə]) or in «мои» nom pl ‘my’ (pronounced [mәi], not *[majɪ]).

Cyrillic «э», until recently, was used sparingly, for historical reasons. Any original *e in initial position or after a vowel acquired a prothetic [j], the only exceptions being native demonstrative stems («этот» ‘this’, «этакий» ‘such a’) and borrowings («этаж» ‘floor’, «эхо» ‘echo’, «поэт» ‘poet’). Further, consonants were palatalized before original *e. Thus «э» is spelled only in acronymic formations like «НЭП» (from новая экономическая политика ‘New Economic Policy, NEP’).

It used to be standard practice to spell any foreign “е” vowel with Cyrillic «э», even when the preceding consonant was pronounced as hard; in a borrowing, a spelling of «де», in certain words, might be pronounced not as soft ([də]) but as hard [d̪ə]: «деталь» [d̪ə] ‘detail, part’, «бензин» [bə] ‘fuel’. Recently, however, «э» is being used more often, after hard consonants («сейл» ‘sale’, «Дэнни де Вито» but «бест-сельфер») and even after vowels («крестор» ‘creator').
Cyrillic «ё» is more of a diacritic modification of «е» than a separate letter. It is not given a distinct position in alphabetical ordering in dictionaries; thus, «ежели» 'if' is alphabetized between «еж» 'hedgehog' and its diminutive «ёжик». «Ё» indicates that the vowel is stressed [ó]. In addition, after a consonant letter, it indicates that a preceding mutable consonant is palatalized: «Фёдор» [fódar]. When there is no preceding consonant letter, the vowel is preceded by [j]: «ёжик» [jóžık]. Thus when it is used, then, «ё» has a function parallel to that of «я» or «ю». But in fact «ё» is not used in all texts or styles of writing. If stress is marked generally – it usually is not, but it can be, for example, in dictionaries or pedagogical texts for foreigners – then «ё» is certainly used. Apart from such aids, the more explicit «ё» may be used in certain genres of texts intended for mass audiences: encyclopedias, schoolbooks, publicistic texts. In many other genres of text – fiction, journalism – «ё» is generally not used, and ordinary «е» is used instead. This letter is used in some of the recent postings on the web (for example, in the catalogue of the Russian State Library), but not in the majority; no pattern is yet clear.

Individual borrowings that might be expected to have «ё» do not necessarily use that letter. Neither «ё» nor «е» is used to indicate the sequence of palatalized consonant followed by [o] in such borrowings as «сеньор» 'señor' or «бульон» 'bouillon'. The sequence «йо» is used internally after vowels («район» 'region') and is generally used in borrowings to represent [jo] initially: «йод» 'iodine', «йога」 'yoga', «Йорк」 'York' (though Japanese names do use «ё»: «Ёсако» 'Yosano'). The grapheme «ё» is also used, lexically and locally, as an aid to the pronunciation or identification of individual words, notably to distinguish the neuter singular pronoun «все» from the plural «все» 'everyone, all things': – А ты всё это опиши 'you just describe all that'; Валерий и я всё иди 'Valery and I kept on walking'. In discussions of spelling below, «ё» is characterized as explicit writing style, «е» as neutral style.

In compounds, soft-vowel letters indicate that [j] precedes the vowel, even after a previous consonant letter: «военорис» 'military lawyer' [vojńo]; «детисли» 'children's daycare' [těsli]. Remarkably, in borrowings «й» can be followed by soft-vowel letters: «фойе» 'foyer', «папайя」 'papaya', «паранойя」 'paranoia', «Айя-София» 'Hagia Sophia', «(растут) секвойи」 'sequoias (grow)'.

Consonant letters designating immutable sounds («ч щ ш ж ц») have unusual properties, and are followed by a mixed set of vowel letters, normally «а», «у» (very exceptionally «о» in borrowings: «брошора» 'brochure', «жюри」 'jury'), «е», and «и». Spelling of stressed [ó] after these letters is complicated. Native roots use «ё» in explicit style, or, in neutral orthographic style, «е»: explicit «цёки」 'cheeks', «жёлтый」 'yellow', NOM PL «жёны」 'wives', «молодожёны»

20 Российская Государственная Библиотека http://www.rsl.ru/ <10.X.02>. The site does not use «ё» on its home page.

Another complication is that both ‘цц’ and ‘цы’ are used; ‘цы’ occurs in old lexemes (‘цыгане’ ‘Gypsies’, ‘цыплёнок’ ‘chick’), ‘цц’ in modern borrowings (‘цикл’ ‘cycle’, ‘цивилизация’ ‘civilization’). In grammatical endings ‘ы’ is used (Nom Pl ‘отцы’ ‘fathers’).

The “hard sign” ‘ъ’ and the “soft sign” ‘ь’ do not represent any sound directly. Rather, they are operational graphemes that indicate how adjacent graphemes are to be understood. The “hard sign” ‘ъ’, after being eliminated from the end of words in the orthographic reform of 1918, has limited functions. It is used after prefixes before a soft-vowel letter (‘объясняль’ ‘explained’, ‘съесть’ ‘eat up’) and in some borrowings (‘объект’ ‘object’, ‘коньонктура’ ‘configuration’). It is a boundary grapheme, indicating that the following soft-vowel letter is to be read as if it began a word – that is, first comes the consonant (which may or may not be pronounced as palatalized), then [j], then the vowel: ‘отъезд’ [atъjést] ~ [At“jést].

The “soft sign” ‘ь’ has greater utility. When no vowel letter follows, ‘ь’ indicates that a preceding mutable consonant is palatalized. When a vowel letter follows, ‘ъ’ (like ‘ь’) indicates that the vowel letter is to be interpreted as if it were in initial position, hence preceded by [j]; the preceding consonant is palatalized if it is mutable: compare palatalized ‘бы’ ‘I beat’ [bjju], but unpalatalized ‘цы’ ‘I sew’ [jyu]. When the symbol ‘ъ’ is not followed by a vowel letter, it indicates that the preceding consonant is palatalized. Thus the ‘ъ’ indicates that the lateral consonant is palatalized in GEN SG ‘льда’ ‘ice’, ‘толко’ ‘just’, ‘столько’ ‘so much’. After ‘ч ш ж щ’, which designate immutable consonants,

1.3.6 How the Cyrillic alphabet works (lexical idiosyncrasies)
In general, Russian writing can be converted automatically to a phonological representation when it is supplemented by information about stress. There is only a limited number of idiosyncratic instances in which spelling and phonology do not match.

Orthographic «г» is pronounced as [v] in the genitive singular of masculine and neuter adjectives – for example, in «того» [tak] ‘that’, «постороннего» [ . . . niva] ‘outsider’. The same pronunciation occurs in the lexicalized genitives «сегодня» ‘today’ and «итого» ‘thus’. Historically this pronunciation goes back to a sound change in which *g became [ɣ] in the southern half of the Russian language area, and was then reinterpreted as [v] in these words in central dialects. Despite the spelling «ч», palatalization is now rare in the reflexive particle in the present tense and the masculine past (рвётся [ryõtsa], брался ‘undertook’ [bralsa]).

Some other peculiarities derive from the tension between [g] and [ɣ] as the pronunciation of «г». In individual lexical items with a sacral connotation, the pronunciation of «г» as [ɣ] was maintained. The fricative is still possible in interjections «господи» ‘Lord’, «ей Богу» ‘oh God’, «ага» ‘aha’, and was earlier possible in the declension of the nouns «Бог» ‘God’ and in «благий» ‘honorable’ and «богатый» ‘rich’. A fricative pronunciation is recommended in «бухгалтер» ‘bookkeeper’, where it has a different source.

The fact that «г» was once widely pronounced as [ɣ] is indirectly responsible for another peculiarity of spelling. Foreign [h] was for a long time spelled with Russian «г», because these foreign sounds were perceived to be similar to [ɣ]. This convention was maintained long after «г» ceased to be pronounced as [ɣ], and has carried over into modern borrowings, when it is pronounced as [g], not [ɣ]: «гуманист» ‘humanist’, «готтентоты» ‘Hottentots’, «гонорар» ‘honorarium’, «Гитлер» ‘Hitler’. In recent years there is a tendency to use «х», unless the spelling with «г» is already established: one discussion of Shakespeare refers to «Гамлет» ‘Hamlet’ and «Хотспур» ‘Hotspur’. Note also «Хельга» ‘Helga’, «Хельсинки» ‘Helsinki’, «телескоп имени Хаббл» ‘the Hubbell telescope’, «Уорхолль» ‘Warhol’, «Харлей-Давидсон» ‘Harley-Davidson’.

21 The imperatives of verb stems ending in «щ» take a vowel – рýскать, рýшь – suggesting «щ» counts as a cluster.
1.3.7 Transliteration

It is possible to convert words or whole texts written in Cyrillic into a Latin script by transliterating: each Cyrillic letter is assigned to one or more Latin letters, and the rules of conversion are applied blindly. For example, each time «г» occurs in a Cyrillic text, the letter «g» is used in the Latin text; thus «Волгоград» is transliterated as «Volgograd», «Гамлет» as «Gamlet» (though we know him by another name), «того» as «togo» (though the «г» is pronounced as [ɣ]). When possible, the Latin equivalent is chosen so that its sound value corresponds to the sound value of the Cyrillic letter.

A number of systems for transliteration are in use. They are quite similar, and they are more or less equally adequate. There are also more informal, less rigorous, strategies of Anglicizing isolated Russian words, used, for example, in journalism.

The linguistic system uses diacritics in preference to diagraphs for unusual consonant letters, for example «ц» is transliterated as «č», using the Czech háček. The soft-vowel letters «я» and «ю» are rendered as «ja» and «ju» in all positions, whether they serve to mark a previous consonant as palatalized or to indicate the presence of [j]. Cyrillic «й» is «j». In this system, Latin «j» has multiple values: it occurs after a consonant in «дjadja Vanja» («дядя Ваня»), implying [dʒ], before a vowel in «Jalta» («Ялта»), implying [j], and after vowels in «герой» («герой»). Thus in order to know what Latin «j» means, one has to know the principles of Cyrillic writing. Cyrillic «э» is distinguished from Cyrillic «е» by a diacritic, as «ê» or «è» (continental). The linguistic system of transliteration is rigorous in representing «ê» when it is used in the source, and rigorous in transliterating «ъ» and «ь». The linguistic system is commonly adapted to serve as a phonetic alphabet, a practice adopted here, though other sources prefer the International Phonetic Alphabet.

All other systems avoid diacritics and use digraphs instead: «щ» is «ch», «ц» is «shči», and «щ» is «ts». Differences concern how vowels and «й» are transliterated. One widely used system is that of the Library of Congress. The soft-vowel letters «я» and «ю» are rendered as «ja» and «ju», and Cyrillic «й» is also «i».

Thus the Latin transliterated letter «i» derives from multiple sources – from Cyrillic «и», obviously, but also from «й» and the soft-vowel letters «я» and «ю». As a consequence, sequences such as «ii», «oi», «ei» are ambiguous. A further difficulty is that spellings such as «Jalta» or «диадя Вания» or «Светлойар» («Светлойар») seem not to be enlightening guides to English pronunciation.

The Library of Congress system, in its most rigorous formulation sanctioned by the Library, uses ligatures («ю» > «iũ») and some diacritics («э» > «ê»),

Table 1.5 Romanizations of Russian Cyrillic

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<th>Cyrillic</th>
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<th>American Geographic popular Corpus</th>
<th>Uppsala Corpus</th>
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† «e» after consonant letter, «ye» elsewhere
‡ less rigorous variant often used in practice
° Continental variant
§ British Library in particular
but these diacritics usually disappear in informal practice outside of the Library itself. Similarly, prime and double prime, defined as the Romanization of the soft sign and the hard sign, are often replaced by a single or double closed quotation mark, or omitted altogether. (Here they are maintained in transliterating names of scholars, but not in Russian names in glosses.) Moreover, search programs in electronic library catalogues ignore them.

The British System (British Standard 2979, 1958) renders consonant letters in the same way, but has different equivalents for vowel letters: «я» = «ya», «ю» = «yu»; «и» is used consistently for «й». The results in this system – «Yalta», «dyadya Vanya», and «geroi» – seem a more congenial guide to pronunciation for English speakers. But there is a problem with «ы», rendered in other systems as «y». Hart’s Rules for Compositors (various editions, e.g., 1983) recommends «ŷ» for «ы», but the diacritic disappears in practice, with the result that Roman «y» is used for two very different purposes. The British Library, whose practice is reflected, for example, in the catalogues of books acquired (for example, British Library 1974, 1979–87, 1986), uses «ui» for «ы».

In the British System, the ending of proper names is simplified to «y», as in «Evgeny», «Klimenty», «Zlatopolsky». This sensible practice of simplifying and domesticating proper names is becoming widespread.

In brief, each system has an advantage and a correlated disadvantage. The British System has a more congenial way of rendering «я» and «ю» than the Library of Congress system, but does not have a good solution to «ы». The Library of Congress handles «ы», but creates off-putting sequences such as «Ialta».

The US Board on Geographic Names of The American Geographic Society of the Smithsonian Institute, like the British System, uses «y» in rendering «я» and «ю». It even uses «ye» to render Cyrillic «е» in the position not after consonants – in absolute initial position, after vowels, and after «ъ» and «ь»: «Dostoyevsky», «Yeltsin». This is roughly the strategy used in journalism to render Russian words or names, though popular practice is less consistent than the transliteration algorithms. Popular practice sometimes also transliterates Cyrillic «е» as «ye» even after consonants, leading to a profusion of «у»: «Nye byt voynye» for «не быть войне! ‘there’ll be war no more’».

Computerization pulls in opposite directions. It has become easy to manipulate Cyrillic on computers. The letters of the Cyrillic alphabet are assigned to a designated range of characters. These are not the ordinary characters, but ones belonging to an enriched character table, and, with software, keystrokes are reassigned to that range. A mapping commonly used on the web is “KIO8,” for “код

обмена информацией, 8 бит” (Code for Information Exchange, 8-bit), or now the specifically Russian version “KIO8-R,” which assigns ASCII 192 through 255 (plus 179) to the Russian Cyrillic alphabet, which can then be typed, read, and printed with the appropriate software. 25 Microsoft devotes the interval from 0410 through 0451 of Unicode to Russian Cyrillic. Thus, on the one hand, because of practical developments in computers, it has become increasingly natural simply to use Cyrillic without any transliteration, in discourse where acquaintance with Russian can be presumed. On the other hand, there are many Cyrillic fonts and mapping systems in use, and so far there is no standard for manipulating Cyrillic. Accordingly, there is a pressure to simplify. 26

The Library of Congress system and the British Standard have one prominent ambiguity: transliterated “ii” can represent either gen sg “история” ‘history’ or gen pl “историй”; “оi” can represent either “он” or “ой”. Computerized corpora develop strategies to avoid such ambiguities. The system of the Uppsala Corpus, for example, is representative of the new mode of unambiguous Romanization. The Uppsala Corpus uses digraphs with “h” for the unusual Cyrillic consonant letters – for example, “ж” becomes “zh”; it uses “j” for “й” and as the operational graph in vowel letters – for example, “я” becomes “ja”. By using “j” consistently, “ой” and “он” are distinguished in transliteration (as “oj” and “oi”, respectively). This strategy may gain ground.

In e-mail communication with Russians (in the format of plain text in a Latin alphabet), there is no standardized procedure. Not uncommon is a strategy like that of computerized corpora, in which the unusual Cyrillic consonant letters are spelled with digraphs with “h” as in most transliteration systems, while “j” is used for “й” and as the operational graph in vowel letters, for example “я” becomes “ja”. Some Russians use “je” for “е” after vowels.

The various systems for Romanizing Cyrillic are similar and about equally adequate. They face conflicting demands. On the one hand, any transliteration is supposed to be automatic and rigorous, and retain all the information contained in the original, so that it is possible to reconstruct the original Cyrillic from the Romanization. On the other, a transliteration is more congenial if it indicates how Russian words might be pronounced and does not overwhelm the reader with its foreignness. The two expectations inevitably conflict at certain points: in the transliteration of “й”, “ы”, and the soft-vowel letters, which have a dual function in Russian, and also in the transliteration of “э”, “ё”, “ь”, and “ъ”.

25 Discussed on various sites, for example, http://koi8.pp.ru/.
26 One could note, for example, that of library catalogues accessible by the internet, Cambridge University’s maintains “’”, while Oxford’s has dispensed with it.
2

Sounds

2.1 Sounds
Sounds are pronounced in different ways – in one context as opposed to another, from one occasion to the next, from one speaker to another. From these different pronunciations in the flow of speech, over the occasions of speech, and across speakers, regular gestures and regular acoustic patterns can be abstracted. The units derived by idealizing in this way will be written here in square brackets.¹ In Russian as in other languages, sounds can be classified into vowels (stressed [a], unstressed [a], etc.) and consonants, which include obstruents — sounds made with a significant obstruction of the air flow (such as [t], [z]) — and sonorants (such as the nasal [n], the liquid [l], the glide [j]).

Russian phonology revolves primarily around two concerns: stress in vowels and palatalization in consonants.²

Palatalization is an articulation of a consonant in which the blade of the tongue moves toward the hard palate. For example, when the non-palatalized “l” sound of у родный ‘goal’ is pronounced, the tip of the tongue touches behind the upper teeth, and the blade and the middle of the tongue are raised towards the hard palate. Most consonant articulations in Russian come

¹ The discussion here, which is oriented around the level of phonology sometimes termed “broad phonetic,” downplays questions of phonemics: non-linguists find the concept of phoneme unenlightening; variable rules respond to phonetic conditions; problematic cases of phonemic analysis (in Russian, unstressed vowels; palatalized velars; [i]; [z]), the sound corresponding to the letter ь cannot be resolved without extensive discussion about the actual properties of the sounds, rendering binary decisions about what is or is not phonemic uninformative.

² Avanesov’s manual (1972) is informative about variation in phonology, if one corrects for its conservative standard. Panov 1990 is enriched by a valuable historical perspective. Matusevich 1976 and Bondarko 1977 have proven useful. Halle 1959 and Jones and Ward 1969 are good descriptions in English. The research on variation (Panov 1968, Krysin 1974) is summarized and interpreted in Comrie and Stone 1978 and Comrie, Stone, and Polinsky 1996.
in two forms, with or without palatalization, like “l” sounds. It is convenient, following the Russian tradition, to refer informally to non-palatalized consonants as hard and palatalized consonants as soft. Non-palatalized consonants are written by a symbol with no additional mark; [z] is the non-palatalized voiced dental fricative that is the first consonant in, for example, зал 'hall'. The set of non-palatalized consonants can be written as \{C^o\}, or just C^o, with a degree sign to emphasize absence of palatalization. Palatalization is indicated by adding a diacritic to the symbol used to represent the consonant. Various diacritics are used: an acute accent ([z'] or [z]), an apostrophe or single quote ([z']), or – and this is the practice adopted here – a cedilla; thus [z] represents the palatalized “z” in встал ‘he took’. The set of palatalized consonants can be represented \{\c\} or, more simply, as \c. Palatalization, though a property of consonants, affects how vowels are pronounced. Palatalization is also relevant to morphology.

Stress functions on many levels. Phonetically, stressed vowels differ from unstressed vowels first and foremost by being longer. As a consequence, stressed vowels are more distinct in their pronunciation than unstressed vowels. Stress is relevant to the lexicon and to morphology. Each lexical word – noun, verb, adjective, adverb – has one syllable that is stressed. Accordingly, the number of stresses in an utterance is the number of major words in the utterance. (This excludes prepositions and particles such as же, which are written with spaces as separate orthographic words, but do not have a stressed vowel.) Stress is not assigned automatically to the same syllable in all words, such as the first syllable in Czech. Rather, different words can have stress on different syllables: мýка ‘torment’ but мýка ‘flour’. Further, the place of stress can fall on different syllables in different inflectional and derivational forms of a word or word nest: thus, gen sg сторонá ‘side’, nom=acc pl стороны; 1sg смотрí ‘I see’, 2sg смотришь; 1sg оторáв ‘I will rip off’, pst pl оторáли, pst fem оторáла, psv masc sg оторáли; or nom sg головá, acc sg голову, dim головка. Stress is then an ancillary marker of morphology (in verbs: §3.2, in nouns: §3.6).

Stress plays a crucial role in the prosody of phrases. Shifts in intonation contours occur on or around the stressed syllable (§7.2). To emphasize one word as opposed to others, the stressed syllable is made louder, more prominent (sometimes termed sentence stress). Thus operations that deal with the prosody of phrases are focused on stressed syllables.

2.2 Vowels

2.2.1 Stressed vowels

A word is organized in its phonetics around the one vowel that is stressed. That stressed vowel is normally longer than other vowels. Vowels far away from
the stressed vowel are very short. Vowels of the syllable immediately before the stressed syllable are intermediate in duration; they are shorter than stressed vowels, longer than other unstressed vowels. By virtue of being longer, stressed vowels have more extreme articulations; the tongue has the time to reach further to the perimeters of the vocal tract – to be pronounced higher and further front, or higher and further back, or lower down. Unstressed vowels, in contrast, spend most of their modest duration in the transition away from a preceding consonant and the transition to the following consonant; they do not reach the same extremes of articulation (high or low, front or back) as stressed vowels. If stressed vowels can be located on the perimeters of the vowel space shaped like an inverted trapezoid, unstressed vowels form a smaller figure inside the space of stressed vowels. There are, evidently, five stressed vowel units in Russian capable of distinguishing meanings of words, and a smaller number of distinct unstressed vowels.

Vowels (and other sounds) can be classified both in terms of the articulatory gestures used to produce them and the acoustic signals produced by these gestures. To review the essentials of articulatory phonetics, vowels are produced by allowing the air to flow relatively freely through the oral cavity. The oral passage can be given different shapes primarily by changing the position of the tongue (and also by different positions of the lips and of the mandible), and different vowel sounds result, which can be classified as front vs. back, high vs. mid vs. low, and rounded (labialized) vs. unrounded (non-labialized). To review the essentials of acoustic phonetics, the irregular shape of the vocal tract leads to a myriad of harmonics of the fundamental frequency, \( F_0 \). The harmonics tend to cluster within recognizable bands, or formants, measured at their centers in cycles per second, or Hertz (\( = \) Hz). The first formant (clustering of harmonics), or \( F_1 \), is proportional to aperture. Thus [á], the vowel produced with the widest aperture and lowest position of the tongue, has the highest value of \( F_1 \), as high as 800 or 900 Hz, while [i ı u], produced with the tongue close to the roof of the mouth, have the narrowest aperture and the lowest values of \( F_1 \), around 250–400 Hz; mid vowels [ə] and [o] are intermediate. The second clustering of harmonics, \( F_2 \), can be taken as a measure of the position of articulation on the horizontal axis, as front (high \( F_2 \)) or back (low \( F_2 \)).\(^3\) Thus [u], the furthest back and most strongly labialized vowel, has the lowest \( F_2 \) (around 600 Hz); the value increases as one goes around the vowel space to [o] (700–900 Hz), [a] (1000–1400 Hz), [e] (1600–1800 Hz), and [i], with a value of 2000 Hz or more. [O] tends to slight diphthongization: [ʊ:] (or [ʊː] after soft consonants). \( F_2 \), incidentally, is what people respond to when they perceive vowels with synaesthesia and characterize, for

\(^3\) A more refined view is that the perception of frontness depends also on \( F_1 \) and \( F_3 \), according to the formula \( F_2 + 0.5 (F_3 - F_2)(F_2 - F_1)/(F_3 - F_1) \) (Carlson et al. 1970).
Table 2.1 Properties of stressed vowels

<table>
<thead>
<tr>
<th></th>
<th>C°VC°</th>
<th>C°VCÇ</th>
<th>ÇVC°</th>
<th>ÇVCÇ</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>F₁</td>
<td>F₂</td>
<td>F₁</td>
<td>F₂</td>
</tr>
<tr>
<td>[i]</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10 ms.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>30%</td>
<td>312</td>
<td>2017</td>
<td>317</td>
<td>2020</td>
</tr>
<tr>
<td>50%</td>
<td>316</td>
<td>2065</td>
<td>346</td>
<td>2114</td>
</tr>
<tr>
<td>70%</td>
<td>313</td>
<td>2121</td>
<td>339</td>
<td>2355</td>
</tr>
<tr>
<td>−10 ms.</td>
<td>293</td>
<td>2175</td>
<td>273</td>
<td>2324</td>
</tr>
<tr>
<td>[i]</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10 ms.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>30%</td>
<td>404</td>
<td>1242</td>
<td>380</td>
<td>1136</td>
</tr>
<tr>
<td>50%</td>
<td>392</td>
<td>1925</td>
<td>352</td>
<td>2094</td>
</tr>
<tr>
<td>70%</td>
<td>383</td>
<td>1950</td>
<td>346</td>
<td>2144</td>
</tr>
<tr>
<td>−10 ms.</td>
<td>337</td>
<td>1650</td>
<td>260</td>
<td>2050</td>
</tr>
<tr>
<td>[ë]</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10 ms.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>30%</td>
<td>599</td>
<td>1361</td>
<td>570</td>
<td>1386</td>
</tr>
<tr>
<td>50%</td>
<td>723</td>
<td>1718</td>
<td>567</td>
<td>1824</td>
</tr>
<tr>
<td>70%</td>
<td>702</td>
<td>1770</td>
<td>548</td>
<td>1947</td>
</tr>
<tr>
<td>−10 ms.</td>
<td>704</td>
<td>1644</td>
<td>488</td>
<td>1955</td>
</tr>
<tr>
<td>[û]</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10 ms.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>30%</td>
<td>815</td>
<td>982</td>
<td>801</td>
<td>1154</td>
</tr>
<tr>
<td>50%</td>
<td>922</td>
<td>1285</td>
<td>895</td>
<td>1306</td>
</tr>
<tr>
<td>70%</td>
<td>941</td>
<td>1346</td>
<td>886</td>
<td>1415</td>
</tr>
<tr>
<td>−10 ms.</td>
<td>896</td>
<td>1443</td>
<td>850</td>
<td>1560</td>
</tr>
<tr>
<td>[ë]</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10 ms.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>30%</td>
<td>560</td>
<td>694</td>
<td>402</td>
<td>1430</td>
</tr>
<tr>
<td>50%</td>
<td>535</td>
<td>738</td>
<td>493</td>
<td>1319</td>
</tr>
<tr>
<td>70%</td>
<td>595</td>
<td>809</td>
<td>518</td>
<td>1213</td>
</tr>
<tr>
<td>−10 ms.</td>
<td>534</td>
<td>905</td>
<td>510</td>
<td>1066</td>
</tr>
<tr>
<td>[û]</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10 ms.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>30%</td>
<td>425</td>
<td>795</td>
<td>435</td>
<td>854</td>
</tr>
<tr>
<td>50%</td>
<td>410</td>
<td>626</td>
<td>437</td>
<td>856</td>
</tr>
<tr>
<td>70%</td>
<td>401</td>
<td>555</td>
<td>433</td>
<td>914</td>
</tr>
<tr>
<td>−10 ms.</td>
<td>386</td>
<td>881</td>
<td>446</td>
<td>1147</td>
</tr>
</tbody>
</table>

10 ms. = measurement 10 ms. after beginning of vowel
−10 ms. = measurement 10 ms. from end of vowel
30% (50%, 70%) = measurement at a point 30% (50%, 70%) of the duration of the vowel
example, [ó ú] as dark or gloomy vowels – they have a low F₂ – and [é í] as bright or red or cheery vowels – they have a high F₂. Specifying the values of F₁ and F₂ goes a long way towards defining a vowel.

It takes a little time for each vowel to reach its target position, and some of the duration of vowels is spent in transition from the preceding to the following consonant. Different places of articulation (labial, dental, alveo-palatal, velar) have characteristic effects on vowels, specifically on F₂. Labial consonants ([p] or [m]) depress the value of F₂ in the transition to the vowel; dentals ([t s]) raise F₂, and velars ([k g x]) are intermediate in their effect on F₂. These effects are similar across languages. What sets Russian apart is the way in which vowels interact with palatalization in consonants. It is customary to define four contexts depending on the adjacent consonants: after a hard consonant before a hard consonant (= C₀VC₀), after a hard consonant before a soft consonant (= C₀VČ), after a soft consonant before a hard consonant (= ČVC₀), and position between soft consonants (= ČVČ). One could in principle distinguish additional contexts in which there is no consonant either before or after the vowel. A context with no consonant is usually equivalent to a consonant with an initial hard consonant: VC₀ ≈ C₀VC₀, VČ ≈ C₀VČ. (The exception is [i] – see below.) And a context with no following consonant is similar to a context in which the vowel is followed by a hard consonant: C₀V ≈ C₀VC₀, ČV ≈ ČVC₀.

The vowels [á ó ú] respond to adjacent consonants in a similar way. Measurements of F₁ and F₂ at different points in the duration of the vowel are recorded in Table 2.1 (one token of the speech of one speaker, reading list style). The behavior of [á], illustrated in Fig. 2.1, can be taken as representative of [á ó ú]. While [á ó ú] differ in absolute values of F₁ and F₂ (see the numbers in bold italics in Table 2.1), their contours are similar.

**Context 1:** C₀VC₀ (#VC₀): The basic allophone is a central vowel, written without diacritics as [á], which occurs between hard consonants, C₀VC₀ (and in initial position, VC₀). As in mátr ‘checkmate’ [mátr] (Table 2.1 and Fig. 2.1), F₂ starts low (1100 Hz) after the hard labial [m] and gradually rises throughout the vowel, in anticipation of the final hard dental [t]. Vowels [ó] and [ú] are similar (móga ‘fashion’ [móga], nýcto ‘empty’ [nýcto]).

**Context 2:** C₀VČ: After a hard consonant, before a soft consonant, as in mátr ‘mother’ [mátr], [á] begins with a similarly low F₂. In anticipation of the final palatalized consonant, F₂ is higher than with mátr already at the midpoint (1490 Hz) and then rises sharply to a much higher value in the final transition

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4 Pictures from Kay’s Computerized Speech Laboratory; measurements prepared with Praat, the phonetics program developed by Paul Boersma. Polina Barskova was kind enough to serve as native speaker. Bondarko 1977 and Matusevich 1976 have comparable though less specific data.
Fig. 2.1  *mār* ‘checkmate’ [māt]

(1850 Hz) (Fig. 2.2). This rise in \( F_2 \) is written here with a directional subscript indicating fronting: \([ā]\). Because \([ō]\) and \([ū]\) have lower values of \( F_2 \), the rise of \( F_2 \) is quite precipitous in anticipation of the palatalized consonant of *ō mōge* ‘about fashion’ [łmōdʃt], \( bőr\) ‘storm’ [būr].

**Context 3: ĆVC**: In the third context – after a soft consonant before hard, as in *mār* ‘crumpled’ [māt] (Fig. 2.3) – \( F_2 \) in the initial transition rises very quickly from the previous labial to an early peak of more than 2000 Hz, and then dips to a minimum after the vowel’s midpoint, rising slightly at the end in anticipation of the final hard dental. With \([ō]\) (mēg ‘honey’) and \([ū]\) (bōcť ‘bust’), whose \( F_2 \) values are lower, the dip and the corresponding rise at the end are more extreme.

**Context 4: ĆVC**: In the context ĆVC, illustrated here by *mār* ‘crumple’ [māt] (Fig. 2.4), \( F_2 \) has a similar contour to the context ĆVC\(^o\), but \( F_2 \) rises to 2000 Hz or more at the end. With \([ō]\) and \([ū]\), as in *ō mēge* ‘about honey’ [łm̩dʃt], *ō bōcť* ‘about the bust’ [łb̩s̩t], the dip and subsequent rise are quite significant.

The vowel \([ɛ]\) has a generally similar behavior, except that its natural value for \( F_2 \) is higher than with \([ā ō ū]\). *ĆVC\(^o\)*: After a hard consonant before a hard consonant, as in *māp* ‘mayor’[mér], *żęst* ‘gesture’ [ż’est], \([ɛ]\) is a relatively open mid front vowel, with \( F_1 \) on the order of 600–700 Hz and \( F_2 \) approximately 1600–1800
Fig. 2.2 мать ‘mother’ [máť]

Fig. 2.3 мать ‘crumpled’ [múť]
Fig. 2.4 მართ ‘crumple’ [mərt]

(Table 2.1).⁵ [Ě] in initial position, as in ძრო ‘this’ [ética], is similarly open. **CVČ**: After a hard consonant but before a soft consonant, [ě] is raised and fronted, especially in its final transition, as can be seen from the lower $F_1$ and higher $F_2$ in მძღოლ ‘about the mayor’ [mërť]. The effect of a palatalized consonant on [ě] can be written as [ɛ], with the same diacritic as with [ã], although with [ě] the effect involves raising (lowering of $F_1$) as well as fronting (raising of $F_2$). **CVC⁰**: After a soft consonant, [ě] has a front, high transition (with an $F_2$ in the vicinity of 1800–2000 Hz): ტელო ‘body’ [℡ლ], მეტკა ‘mark’ [mëtkₐ]. **CVČ**: Between soft consonants, [ě] remains fronted and high throughout: მეტურბ ‘aim’ [mëtunt], with a low $F_1$, around 350–450 Hz, and a high $F_2$, around 2100–2300 Hz.

Among high non-rounded vowels, the variant that occurs in initial position is [i] (უეთ ‘willow’ [ivœ]) – about the same vowel that occurs in the context **CVČ⁰**, after a soft consonant before a hard consonant (**CVČ⁰**: მითრა ‘mitre’ [mitra]). In this context, $F_2$ begins and remains high throughout, but tails off a little in the final transition to a hard consonant (Fig. 2.5). **CVC⁰**: Before a following soft

⁵ [Ě] occurs after a hard consonant only if the consonant is unpaired or the word is a borrowing. For this reason, Avanesov takes the position after soft consonant as basic. But the measurement recorded in Table 2.9 shows that there is a distinct, overt transition from 2000 Hz after a soft consonant to a target 400 or 500 Hz lower, and that transition is similar to the transition that occurs from a palatalized consonant to other vowels such as [ã].
Fig. 2.5 митра ‘mitre’ [mithra]

consonant, as in митин ‘meeting’ [mitink], the vowel has a higher value of F2 throughout its duration (Table 2.1, Fig. 2.7).

CоVCо: After a hard consonant, the vowel that appears is [i] instead of the unadulterated front vowel [i]. When the consonant following [i] is hard, the F2 of [i] starts in the vicinity of 1100–1200 Hz, a value like that of the central vowel [a], while its F1 is similar to that of [u]. F2 then rises rapidly to a peak higher than 2000 Hz two-thirds of the way through the vowel before falling again (see Fig. 2.6, мит ‘washed’ [mit]). The peak value of F2 of [i] is nearly as high as that of [i]. Accordingly, the increment of change in F2 over the life of the vowel is greater than for any other stressed vowel. In this rapid and extreme change in F2, there is some justification for the longstanding claim that [i] is diphthongal.

CоVĈ: Before a soft consonant, as in мит ‘wash’ [mit], F2, after its initial rise, remains high (Fig 2.8).

The stressed vowels of Russian can be graphed as in Fig. 2.9, where the vertical axis is the inverse of F1 and the horizontal axis is the inverse of F2. The vowels [i i i] are represented by two contextual variants each, the other vowels by four. Fig. 2.9 reflects static, single measurements from Table 2.1 for each vowel and context at the midpoint. Accordingly, Fig. 2.9 cannot do justice to changes over the life of the vowel, which are especially significant for [i]. Despite limitations, from Fig. 2.9 it is possible to see how the acoustic properties of values correlate
**Fig. 2.6** мі́т ‘washed’ [mít]

**Fig. 2.7** мі́тне ‘meeting’ [mítːnk]
Fig. 2.8 мыть ‘wash’ [mʲt]

Fig. 2.9 Midpoints of stressed vowels, contexts ҪVҪ / ҪVC° / C°VҪ / C°VC°
sounds

Table 2.2 Transcriptions of stressed vowels

<table>
<thead>
<tr>
<th>Context</th>
<th>Avanesov</th>
<th>Panov</th>
<th>Jones &amp; Ward</th>
<th>Current explicit</th>
<th>Current simplified</th>
</tr>
</thead>
<tbody>
<tr>
<td>C^o^aC^o^</td>
<td>а</td>
<td>а</td>
<td>а</td>
<td>á</td>
<td>á</td>
</tr>
<tr>
<td>C^o^iC^o^</td>
<td>и</td>
<td>и</td>
<td>i</td>
<td>ũ</td>
<td>ũ</td>
</tr>
<tr>
<td>C^o^aÇ</td>
<td>ā</td>
<td>ā</td>
<td>a</td>
<td>á</td>
<td>á</td>
</tr>
<tr>
<td>C^o^eÇ</td>
<td>ē</td>
<td>ē</td>
<td>e</td>
<td>ē</td>
<td>ē</td>
</tr>
<tr>
<td>C^o^iÇ</td>
<td>ũ</td>
<td>ũ</td>
<td>i</td>
<td>ũ</td>
<td>ũ</td>
</tr>
<tr>
<td>ÇaC^o^</td>
<td>ā</td>
<td>ā</td>
<td>a</td>
<td>á</td>
<td>á</td>
</tr>
<tr>
<td>ÇeÇ</td>
<td>ē</td>
<td>ē</td>
<td>e</td>
<td>ē</td>
<td>ē</td>
</tr>
<tr>
<td>ÇiÇ</td>
<td>ũ</td>
<td>ũ</td>
<td>i</td>
<td>ũ</td>
<td>ũ</td>
</tr>
</tbody>
</table>

with articulatory definitions; for example, [ɪ], a high front vowel, has a low F1 and high F2, and so on. As the lines connecting related sounds in Fig. 2.9 make clear, the four contexts form a generally linear progression in the value of F2 from low to high: C^o^VC^o^ < C^o^VC < ÇVC^o^ < ÇVC. The distribution of the points and lines suggests how it is possible for vowels to vary quite significantly depending on the consonantal context and yet remain distinct from each other.

Stressed vowels, then, are affected by adjacent consonants in a consistent fashion. Before a following palatalized consonant, all vowels are fronted and/or raised, in the last third of the vowel and especially in the final transition. After a soft consonant, vowels are fronted and/or raised in the first third. Between soft consonants, vowels are fronted and raised in both transitions and, in an additive fashion, in the middle of the vowel as well. The vowels [i ũ] are in one sense an exception, but a motivated exception. Inasmuch as [i] is already front (for example, in word-initial position when no consonant precedes), it is not appreciably fronted by a preceding soft consonant; instead, the central [ũ] vowel appears after a preceding hard consonant. The generalization that covers all vowels is that, in relative terms, transitions to adjacent soft consonants are further front (higher F2) and/or raised (lower F1) than are transitions to adjacent hard consonants.

Different systems are in use for transcribing stressed vowels in context (Table 2.2). In the system of Avanesov 1972, for [ā õ ũ], the effect of an adjacent palatalized consonant on the vowel is indicated by a dot (a half-umlaut) above the vowel positioned on the side of the palatalized consonant; position between soft consonants merits a full umlaut. For [ě i], the raising effect of a following
soft consonant is marked by a circumflex; the effect of a preceding hard consonant is indicated by using the hard-vowel letter of Cyrillic («ъ» and «ы»).

Avanesov’s system can be easily Romanized, by using «и» for Cyrillic «ы» and some distinction for Cyrillic «е» vs. «ъ», such as «е» vs. «ъ». The Cyrillic transcription of Panov 1967, which treats [ê] together with [á ó ú], transcribes the position between two soft consonants with an umlaut and does not distinguish ЦВо and ЦВо, the two environments in which a vowel is adjacent to a single palatalized consonant on one or the other side; both are marked with a centered dot. Jones and Ward 1969 recognizes the position between soft consonants as different in kind from the other three positions for [á ó ú]; this position of extreme fronting is marked with an umlaut for [ò ú] and the digraph [æ] in the case of [á]. The basic symbol without diacritic is used for the other three positions. In the system used here, in its most explicit form, the effect of palatalized consonants is marked by a symbol subscripted to the vowel letter for [ê á ò ú], to the left side after a palatalized consonant, to the right side before a palatalized consonant, and with double symbols between palatalized consonants. As is conventional, the vowel corresponding to [и] after a hard consonant is transcribed as a distinct symbol [ы]. There is an obvious redundancy in these transcriptions; the diacritics reflect the contexts in which vowels can occur. Unless there is some reason for pointing out the character of the transition to an adjacent consonant, it is often sufficient to omit the diacritics and transcribe with the simplified system of [á ó ú é í], with, additionally, [и] used after hard consonants.

2.2.2 Phonemic status of [и]
The exposition above has in effect followed the “Moscow” approach in positing five stressed vowels and in treating [и] as related to [и]. The incontrovertible fact is that [и] is pronounced whenever [и] is put next to a hard consonant in a novel combination, such as when a word beginning with [и] is preceded by a preposition, от имени [и] ‘from the name’, or independent lexeme, читать им [и] ‘he read to them’. The fact that [и] is pronounced instead of [и] in these instances is parallel to the fact that the vowel pronounced for «ъ» after prepositions is not fronted and raised: в школе [ъет], not *[ет]. Historically, whenever a consonant has lost softness (as have c, щ, and ч), the following vowel changed from [и] to [и], as would be indicated by occasional innovative spellings in texts of «ы» instead of traditional «ы». Thus, after consonants [и] and [и] are distributed complementarily, suggesting that they are related sounds: they are allophones of a single phoneme, in a phonemic analysis.6

6 Discussion in Panov 1967:58ff.
The “Leningrad” approach proceeds from a number of heterogeneous considerations to argue that [i] is a phoneme distinct from [i]. One argument is the fact that most suffixes begin with “и” (rather than “ы”) and cause “bare” softening (palatalization) of preceding paired consonants (here termed consonant grade $C'$: §2.5.2). This distribution, however, derives from the diachronic artifact that suffixes began with *i, not *у. The fact that [i] (orthographic “ы”) is used in initial position in rendering exotic Asian place names (bliscon in Korea) suggests only that [i] is distinct from [i] in this one context (word initially), and then only in a specialized lexical subsystem of not wholly assimilated lexical items. Over and above these concrete observations, the basic instinct driving the Leningrad analysis is a concern with the psychological reality of phonetics: [i] is phonemic, ultimately, because it is psychophonetically distinct from [i].

A compromise with respect to this nagging question of the status of [i] vs. [i] could be effected by adopting what amounts to a more radical version of the spirit of the Leningrad approach. One might take the point of view that speakers of Russian manipulate whole CV and VC sequences as conventionalized phonetic units. Localizing palatalization (or its absence) in the consonant alone is an oversimplification. For example, with respect to palatalized labials in word-final position, the palatalization in the consonant cannot be maintained or lost without the preceding vowel being affected: if the labial consonant of познакомьтесь ‘be acquainted!’ is pronounced without palatalization, as it often is in an informal register, the preceding vowel is also affected, hence [оm] instead of [оn]. Or when velars palatalized before [i] in the history of Russian, the change in the consonant was correlated with a change in the vowel – [ki] changed to [ки].

What speakers manipulate, then, is templates of CV and VC sequences. Fine details of phonetics have psychological reality. Among the templates are [C₁̆i] and [C̆o₁̆i] but not *[^C₁̆i] or *[^C̆o₁̆i], or [Ца] and [Соа] but not *[^Соа] or *[^Соо₁̆i]. If one works directly with phonetic templates, the question of whether [i] is a distinct phoneme fades in importance.

2.2.3 Vowel duration

Russian does not have a phonemic distinction of quantity in vowels; there are no words distinguished purely by (for example) a long [aː] as opposed to a short [a]. Despite this, or perhaps because of this, vowels vary in duration in different contexts. The most salient factor is position with respect to stress, but it will be useful to mention some other factors, summarized in [1].

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7 “known to very few native speakers of Russian” (Gordina [1989:21], who also notes that Иссык-Куль was changed to Иссык-Куль in the 1930s).
8 Padgett 2001 sees the distinctive quality of [Ci] in the velarization of the preceding consonant.
9 Shcherba 1912.
Duration of vowels

(a) $\hat{a} > \hat{e} > \hat{u} > \hat{i} > \hat{i}$

(b) $\text{V}_R \geq \text{V}_Z \geq \text{V}_S \geq \text{V}_D \geq \text{V}_T$

(c) $\text{V}_# \geq \text{V}_C \geq \text{V}_C \text{(V)} \geq \text{V}_C \text{(V)}$

Stressed vowels differ in their intrinsic duration, in proportion to the degree of aperture (acoustically, $F_1$) ([1](a)). The most open, $\hat{a}$, is the longest (about 200 milliseconds under stress). $\hat{e}$ is slightly longer than $\hat{u}$ and $\hat{i}$ (duration around 155 ms.); $\hat{i}$ is shorter yet (140 ms.) and $\hat{i}$ the shortest of all (120 ms.).

Unstressed vowels are appreciably shorter.

The duration of vowels varies depending on the adjacent consonants, particularly the consonants that follow the vowel. L. V. Shcherba (1912:126ff.) was able to document the effect of a number of factors. Before single consonants in the first, stressed, syllable of disyllabic words, vowels are shortest before voiceless stops (nâna ‘father’), a little longer before voiced stops (pâga ‘glad’), longer still before voiceless fricatives (pâca ‘race’), and the longest before voiced fricatives (gen sg pâza ‘time’); each successive difference along this hierarchy was on the order of 10 ms. for $\hat{a}$ in slow speech. The motivation for these differences may be that absence of voicing requires an energetic gesture of opening the glottis, and making a complete closure requires more energetic gestures than producing fricatives.

As in [1](c), vowels were found to be shorter before clusters of obstruents (nâçra ‘paste’) than before single consonants (nâga.l ‘he fell’); however, a cluster composed of obstruent plus sonorant (gen sg nârâ ‘fellow’) allows almost the same duration in preceding vowels as singleton obstruents. Vowels are longer when no consonant follows than when a consonant follows, and longer when no consonant precedes.

These constraints on duration ([1]), familiar from other languages, suggest the principle that consonants have negative valence: increasing complexity of consonant articulation removes duration from vowels.

2.2.4 Unstressed vowels

Above all, the duration of vowels depends on stress. If one compares the vowel that appears after hard consonants for orthographic «а» and «о» to stressed [a], the differences are striking. If stressed [a] has a duration on the order of 200 ms., the [a] that appears in the first pretonic syllable is only half that, while the [o] that appears in other unstressed positions is shorter yet, on the order of 80 ms. or less.

10 Matusevich 1976, who does not indicate what kind of syllables were used in the measurements.


12 On variation in duration, see Bondarko, Verbitskaià, and Zinder 1960.

13 Matusevich 1976:100-1.
Because unstressed vowels are shorter than stressed vowels, there is less time for the tongue to reach the articulatory positions of stressed vowels. Thus a great proportion of the duration of unstressed vowels is spent in transition to adjacent consonants. Unstressed vowels do not reach the articulatory extremes of stressed vowels. They are neither as high nor as low, and neither as far front nor as far back as stressed vowels. Acoustically the centralization of unstressed vowels shows up as less extreme values for both $F_1$ (reflecting vowel height) and $F_2$ (reflecting frontness vs. backness). The set of unstressed vowels occupies a smaller portion of the vowel space than the set of stressed vowels. As an indirect consequence of the reduced size of the vowel space, unstressed vowels tend to merge. “Vowel reduction,” then, means a reduction in the duration of unstressed vowels, and as a consequence, a reduced vowel space, and ultimately a reduced number of distinctions made among unstressed vowels.

Since vowels merge in unstressed position, it is something of a fiction to assert that a given unstressed vowel derives from $[\ddot{a}]$ or $[\ddot{o}]$ or $[\ddot{e}]$: once a vowel is unstressed, and has been for at least five hundred years, in what sense is it derived from $[\ddot{a}]$ or $[\ddot{e}]$? We rely on various kinds of indirect evidence such as etymology, orthography, and related word forms. The fiction, however, is unavoidable. In the following, stressed vowels and the unstressed vowels that derive from them historically are written in curly braces as a set of vowels, termed a series. There are three basic positions: stressed, unstressed position after hard consonant, and unstressed after soft consonant. (Sometimes it is necessary to add a fourth position, position after hard immutable consonant $\ddot{S}= [\ddot{S}]$.) In this way, for example, the series of vowels that includes stressed $[\ddot{a}]$ would be $\{ \ddot{a}, \dot{a}, \dddot{a} \}$ or, more simply, $\{ \ddot{a}, \ddot{e}, \ddot{i} \}$. As a shorthand for the whole, we can generally write simply $\{a\}$ and refer to the set as the series $\{a\}$, meaning stressed $[\ddot{a}]$ with its variants and the unstressed vowels that are related to stressed $[\ddot{a}]$ in orthography, in other word forms, by etymology.

It is conventional to distinguish two degrees of reduction, defined by position relative to stress. First degree of reduction – a milder degree of reduction – occurs in the first pretonic syllable and in word-initial position.

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15 The relationship is not deterministic. Different dialect systems of Russian have different phonetic implementations of vowels and different mergers, showing that reducing the phonetic space does not lead automatically to a unique pattern of mergers.

16 Most models inevitably ascribe some primacy to the stressed vowel, and treat the unstressed vowel as derivative. The suggestion here is that speakers learn unstressed vowels as part of a word form, no less than they learn the identity of a stressed vowel. For example, $\dddot{a}E\dddot{m}\dddot{d}z\dddot{e}$ ‘land’ is learned as $[\ddot{g}]$ with its unstressed vowel in place. Support for the autonomy of unstressed vowels can be seen in the fact that they can be manipulated analogically (§2.2.6). Certain analogies of stressed vowels evidently rely on an identity of unstressed vowels: unstressed $[\ddot{i}]$ in $\ddot{c}E\ddot{c}E\ddot{y}$ ‘I cut’, analogous to $[\ddot{i}]$ in $\ddot{v}E\ddot{c}\ddot{y}$ ‘I carry’, motivates stressed $\ddot{c}E\ddot{k}$, analogous to $\ddot{n}E\ddot{c}$. 
(when there is no preceding consonant to cut into the duration of the vowel). Vowels not in first pretonic position (and adjacent to consonants) – in second or more pretonic or in post-tonic position – are subject to more extreme, or second-degree, reduction. There may be slight differences among second-degree contexts – post-tonic vowels are perhaps longer (though less loud) than pretonic vowels two syllables from the stress\textsuperscript{17} – but these are fine details ignored in transcription.

Series \{i u\}: Vowels of series \{i u\} are affected in a less obvious fashion than other vowels. Not all transcriptions write symbols for unstressed, reduced high vowels distinct from the stressed vowel letters (Avanesov does not).\textsuperscript{18} One might use small caps [i i u] or, as here, (modified) Greek letters: \[ι τ υ\]. No sources distinguish between first and second degrees of reduction among high vowels. In non-allegro style, the rounding of \{u\} is preserved in unstressed \[u\] (\textit{gen} \textit{sg} \textit{putú} [poˈti] ‘journey’), and the backing of \{i\} is still audible in unstressed \[i\] (\textit{fem} \textit{pст} \textit{бьлà} [bılá] ‘she was’).

Series \{e a (o)\} after soft consonants: After palatalized consonants, series \{e\} and \{a\} fall together. Until the beginning of the twentieth century, the resulting unstressed vowel was pronounced with ekan’æ, that is, as a mid vowel or an upper mid vowel with [e]-coloring, transcribed [u:e] in Cyrillic, [\textit{ı}:] in Latin. In the twentieth century, the vowel has merged with the slightly reduced vowel of series \{i\}: thus the first-pretonic vowels of \textit{бьлèт} ‘ticket’ [bılːjet] and [bılːjet] \textit{бèлèт} ‘become white’ are now identical. This complete merger of vowels from the non-high series \{e a\} with \{i\} is termed ikan’æ.

Ikan’æ begins to be acknowledged as an acceptable pronunciation around the transition from the nineteenth to the beginning of the twentieth century. In 1912 the Leningrad phonetician L. V. Shcherba (1880–1944) described a generational split: his mother distinguished \textit{fem} \textit{pст} \textit{мèлà} ‘she swept’ from \textit{pv fem} \textit{мèлà} ‘pleasant’, presumably [ŋ̥iːlːá] vs. [ŋ̥iːlːá], while he merged them, presumably [ŋ̥iːlːá]. At the same time, R. Košutić (1919:39) recommended ekan’æ, but conceded that “all the young people” use ikan’æ. Ekan’æ was still the pronunciation that R. I. Avanesov (1972:66) recommended as recently as the last half of the twentieth century. However, sources after Avanesov treat ekan’æ as conservative and outmoded, and assume that there is no longer any distinction among vowels in the position after palatalized consonants.

\textsuperscript{17} Bondarko 1977:156.
\textsuperscript{18} Now \textit{SRIa} 1 uses [u:o] for unstressed \{i\} and \{e a\} after soft consonants.
\textsuperscript{19} Also approximately as in Jones and Ward 1969.
If one posits \( \{ o \} \) as the series vowel where \( *e \) changed to \( *o \) under stress – for example, if \( \{ o \} \) is said to be the vowel not only in \( něc \) [něs] ‘he carried’ but also in \( něs\l\) [něšl]\l\l‘she carried’ – then one could say that series \( \{ o \} \) is merged with series \( \{ a \} \) and \( \{ e \} \) and ultimately series \( \{ i \} \) after soft consonants.

**Series \( \{ a \ o \} \) after hard consonants:** Unstressed vowels belonging to series \( \{ a \} \) or \( \{ o \} \) – that is, unstressed vowels spelled with the hard-vowel letters «a» or «o» that would be pronounced as [á] or [ó] if they were stressed – merge with each other. Under first degree of reduction (first pretonic position, position not after consonant), the unstressed vowel is pronounced as a central, non-high, moderately open vowel, written as [\( \lambda \)]:

- Unstressed vowels belonging to series \( \{ a \} \) or \( \{ o \} \) – that is, unstressed vowels spelled with the hard-vowel letters «a» or «o» that would be pronounced as [á] or [ó] if they were stressed – merge with each other. Under first degree of reduction (first pretonic position, position not after consonant), the unstressed vowel is pronounced as a central, non-high, moderately open vowel, written as [\( \lambda \)]:

- Under second degree of reduction, the unstressed vowel is [\( \lambda \)], a vowel shorter and less open than [\( \lambda \)]: second pretonic

**Series \( \{ e \ a \ o \} \) after Š⁰ (=[ʃ ź]):** For historical reasons, non-high vowels after Š⁰ have unusual behavior. During the time when [ʃ ź] were still soft, original \( *e \) was raised to [\( Še \)], later [\( Še \)], as it was after any soft consonant. When these consonants lost palatalization, the vowel was backed to [\( Šε \)], later [\( Šε \)]. In the twentieth century, the vowel has merged with [\( i \)] from series \( \{ i \} \):

- The vowel is glossed as raised and backed [\( a \)] by Jones and Ward (1969).

- In Avanesov’s conservative norm, [\( Žlε \)], not quite identical to [\( Žlε \)].

- According to SRIa 1.103–4.
Table 2.3 Vowel series

<table>
<thead>
<tr>
<th>series</th>
<th>(C^0)</th>
<th>(\tilde{S}^0 (=\hat{s} \hat{z}))</th>
<th>(\tilde{\mathcal{C}})</th>
</tr>
</thead>
<tbody>
<tr>
<td>{u}</td>
<td>[v]</td>
<td>[v]</td>
<td>[v]</td>
</tr>
<tr>
<td>{i}</td>
<td>[i]</td>
<td>[i]</td>
<td>[i]</td>
</tr>
<tr>
<td>{e}</td>
<td>[i]^\infty</td>
<td>[i]^\infty</td>
<td>[i]^\infty</td>
</tr>
</tbody>
</table>

borrowing alternation with \(\breve{V}\) no alternation with \(\breve{V}\)

\{o\} \{\alpha\} | [a] | [i]^\infty | n.a. | [i]^\infty |
| \{a\} | [\alpha] | [\alpha]C^0 \sim [i]\mathcal{C} | [\alpha] | [i]^\infty | [i]^\infty |

\(x^l = \) second-degree reduction
\(x^\infty = \) Avanesov’s conservative norm = \(i^\alpha \sim i^\epsilon\)

The relations of stressed and unstressed members of vowel series are schematized in Table 2.3 in three contexts.

As shown in Table 2.3, there are more distinctions of vowels under stress – five – than among unstressed vowels. In the contemporary norm, three vowels are distinguished after hard consonants, two after soft. (In the conservative style of Avanesov, four distinctions are made after hard consonants, three after soft.) Further reduction and merger is possible under second degree of reduction in some varieties of speech. The troublesome question is whether unstressed \([i]\) (using breve here to mark significant shortening of an stressed vowel) is so reduced that it merges with \([\alpha]\) – whether the unstressed vowels of \textit{DAT PL го́ры} and \textit{MSC=NT LOC SG го́ры} are pronounced the same. Panov (1990) decides that merger has long been a constant possibility in a less-than-standard, allegro style, but has not achieved normative status. Also, in an extreme version of allegro style, series \{u\} may lose its labialization and merge after soft consonants with \([i]\) and after hard consonants with \([\tilde{r}\] in this style will be identical to \([\alpha]\). At this point, only two unstressed vowel phones would be left under second degree of reduction: \([\tilde{r}\] vs. \([\tilde{r}\] \approx [\alpha]\). The two vowel phones would be distributed complementarily, \([\tilde{r}\] after palatalized consonants, \([\tilde{r}\] \approx [\alpha]\) after hard. This allegro system is not normative, in Panov’s view, but it is widespread.\(^{23}\)

2.2.5 Unpaired consonants \([\check{s} \check{z} \check{c}]\) and unstressed vocalism

As noted, \([\check{s} \check{z}]\), which are always hard and therefore immutable and unpaired, affect unstressed vowels in a manner different from that of ordinary mutable hard consonants.\(^{24}\)

As mentioned, a vowel from series \{e\} becomes \([i]\) after \([\check{s} \check{z}]\): \textit{жемчуг} ‘pearl’, \textit{жемчужный} \([\check{z}t]\). In similar fashion, for vowels that alternate with stressed \([o]\) and could be identified as series \{o\}, only \([i]\) is used after \([\check{s} \check{z}]\): \textit{ном PL жёны},

\(^{23}\) As Comrie, Stone, and Polinsky 1996 treat this merger. \(^{24}\) Kasatkin 1989.
NOM SG жена́ [žíná] ‘wife’, NOM SG шелк, GEN SG шелкá [šilká] ‘silk’ (Table 2.3). Some recent borrowings have an unstressed vowel which, because it is spelled as «о», might be identified as belonging to series {о}. In imitation of its foreign source, this «о» can be pronounced with only partial reduction as a shortened mid, labialized vowel [ʊ], for example Шопен ‘Chopin’ [šòpén]. As such words are assimilated, this «о» is reduced to [ʌ] in first pretonic position: жонглёр ‘juggler’ [žanglór], Шопен [šapên], шофёр ‘chauffeur’ [šafór] (Table 2.3). This pronunciation is what might be expected given the pronunciation of unstressed {о} after paired hard consonants: бога́ [vładá] ‘water’.

Vowels of series {а} show variation between two variants, [ʌ] and [ɪ]. The older pronunciation was [ʃ⁰e¹], later [ʃ⁰ɪ¹], now [ɪ]. Throughout the nineteenth century up until the beginning of the twentieth century, [ʃ⁰e¹], later [ʃ⁰ɪ¹], was used in native words. Both variants occurred in borrowings, with a stylistic difference: [ʌ], which was closer to the pronunciation of the (often French) sources, was a mark of “spoken language of good society,” in contradistinction to the pronunciation that fit the native Russian pattern, with [ʃ⁰e¹]/[ʃ⁰ɪ¹]. In the twentieth century, sociolinguistic investigations document that there is variation and change, but the change is not uniform; individual lexemes are regularizing usage, but not all lexemes are regularizing in the same direction. Native words in which the unstressed vowel does not alternate with [а] have kept [ɪ]: ржаной ‘rye’ [řžnój], GEN PL лошадей ‘horses’ [ļšidéj]. Native words in which the pretonic vowel alternates with stressed [а] are generalizing [ʌ]: GEN SG жарá (NOM SG жár) ‘heat’, GEN SG вожакá (NOM SG вожáк) ‘guide’, NOM PL ша́гá (NOM SG шáг) ‘step’, 3SG ужаснётся ‘becomes horrified’ (ADJ ужásный). In borrowings, the vowel depends on the following consonant: [ɪ] is kept if the following consonant is (or used to be) palatalized: жаке́т ‘jacket’ [žakét], жасми́н ‘jasmine’. In contrast, [ʌ] is being generalized in words in which the following consonant is hard: шатён ‘auburn-haired person’ [šatén], шаблóн ‘cliché’, шалáш ‘cabin’, шампáнское ‘champagne’.

25 As is not surprising, since stressed [ʊ] after [ʃ] derives from etymological *e. Here is a place where the notion of series is revealed as something of a fiction. In this context, there is no evidence that the unstressed vowel ever actually became [о]. The unstressed value here is [ɪ] because it remained *e, and had the same fate as other unstressed *e after [ʃ].

26 See Panov 1990:260ff. Grech (1827) asserted that it was appropriate, in the “spoken language of good society,” to say шампанское (that is, [ʌ]) rather than шампанское (a vowel of the type [e¹], subsequently [ɪ¹], now [ɪ]). At the turn of the twentieth century, Кошутић (1919) gives two pronunciations for borrowings: [ʌ] (literary) and [ɪ] (non-literary). Interestingly, he gives only vowels similar to [ɪ] in native words in which the relevant vowel alternates with stressed [ʊ]. Thus these two sources suggest that [ʌ] has long been used in borrowings.

27 Krysin 1974.

28 Жалéть ‘pity’, with [ɪ], is exceptional in this regard if it is related to жалéть, жалéко ‘feel sorry for’, but the derivational connection is tenuous (and the following [[ favors [ɪ]].

29 Panov 1968 puts the burden on alternation, Krysin 1974:105 on the following consonant. Evidently both are relevant.
Evidently, the use of [a] in borrowings prepared the way for using [a] in native words in which there is alternation with stressed [á], when the unstressed vowel is still associated with [á], and this has become normative. As noted, [i] is maintained in native words when the unstressed vowel does not alternate with stressed [á]. In borrowings, both [a] and [i] occur, distributed according to the following consonant. A following palatalized consonant tipped the balance in favor of the raised variant [i]. Thus far with series {o}, only borrowings use a low unstressed vowel [a]. Words in which the unstressed vowel alternates with stressed [o] do not use [a]. This is an important difference between {a} and {o}, reflected in Table 2.3.

The sound [c] is, like [s ə], an unpaired immutable hard consonant, but it hardly occurs before series {o} or {a}. A visible exception is the root цár' 'tsar', in which {a} under stress alternates with [a] under first degree of reduction: gen sg цáръ, цáръа 'tsar's wife'.

2.2.6 Post-tonic soft vocalism

In general, unstressed vowels associated with series {a o e} are pronounced as a high front vowel [i] after any soft consonant. For this reason, one might expect to find [i] in place of post-tonic vowels in grammatical endings as well. It is regularly stated, however, that this vowel can, depending on the morpheme, be pronounced as [ə]. Grammatical morphemes differ, and there is some change – and some disagreement among authorities. Table 2.4 lists contexts of nouns, organized by the vowel that appears when the given morpheme is stressed.

Beyond this syntagmatic phonetic condition, the choice between [a] and [i] depends on a paradigmatic condition – on the vowel phones that occur in the given morpheme in other words. At one extreme, [a] is used consistently in Contexts 1–5, for example, nom sg церéвня 'village' [ná̞]. The vowel of these morphemes would be [á] under stress (nom sg головá 'head', земля 'land') and [a] after hard

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Table 2.4 Post-tonic vowel reduction, nominal morphology

<table>
<thead>
<tr>
<th>Context</th>
<th>Old Muscovite</th>
<th>Avanesov</th>
<th>Kuz'mina, Panov</th>
<th>Krysin</th>
</tr>
</thead>
<tbody>
<tr>
<td>[ČV] ~ [Ča] ~ [á]</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 NOM=ACC PL.&lt;Ib&gt; {-á}</td>
<td>ő</td>
<td>ő</td>
<td>ő</td>
<td>ő (90%)</td>
</tr>
<tr>
<td>2 NOM SG.&lt;II&gt; {-á}</td>
<td>ő</td>
<td>ő</td>
<td>ő</td>
<td>ő (90%)</td>
</tr>
<tr>
<td>3 GEN SG.&lt;II&gt; {-á}</td>
<td>ő</td>
<td>ő</td>
<td>ő</td>
<td>ő (90%)</td>
</tr>
<tr>
<td>4 DAT PL {-ám}</td>
<td>ő</td>
<td>ő</td>
<td>ő (~ 1)</td>
<td>ő (~ 1)</td>
</tr>
<tr>
<td>5 LOC PL {-áx}</td>
<td>ő</td>
<td>ő</td>
<td>ő (~ 1)</td>
<td>ő (~ 1)</td>
</tr>
<tr>
<td>6 INS PL {-ámi}</td>
<td>ő</td>
<td>ő &gt; ő</td>
<td>ő &gt; ő</td>
<td>ő &gt; ő</td>
</tr>
</tbody>
</table>

| [ČV] ~ [Ča] ~ [ó] | | | | |
| 7 NOM=ACC SG.<II> {-ó} | ő (~1) | ő > ő | ő | ő (63%) ~ ő |
| 8 INS SG.<II> {-óm} | ő | ő > ő | ő > ő | ő (81–83%) |
| 9 GEN PL.<II> {-óv} | ő | ő > ő | ő > ő | ő |
| 10 INS SG.<II> {-ój} | ő | ő | ő | ő |

| [Č] ~ [é] | | | | |
| 11 DAT LOC SG.<III/II> {-é} | ő | ő | ő | ő |
| 12 GEN PL {-é} | ő | ő | ő | ő |

[ṽ] ~ [V] = unstressed vowel in alternation with stressed vowel
x ~ y = x occurs in variation with y
x > y = x has yielded to y
x > y = x is yielding to y
INS SG.<II> = case-number form of Declension.<II>
x^† = presumed, not explicitly stated

consonants (NOM SG δάβα 'old woman' [bába]). At the opposite extreme, the locative singular of Declension.<IA> and Declension.<II> (also the dative singular of Declension.<III>) is [é] under stress. The vowel of this morpheme does not occur after hard mutable consonants, and accordingly there is no alternation with [Ča]. Unstressed, this vowel has the variant [i] after C (and [i] after immutable Šv: na пляже ‘on the beach’ [ži]).

The contexts of greatest interest are those whose vowels alternate between [ó] under stress and unstressed [a] after hard consonants: Context 7 NOM=ACC SG. móre 'sea' – recall okhó [aknό] ‘window’, pîþě 'drinking' [pîþjó], stágo [stås] 'herd' – and Context 8 INS SG. mórem – recall okhóm [aknόm] ‘window’, pîþěm [pîþjóm], stágojö [ståjóm]. (Context 9, for example, GEN PL. bráťev 'brothers', belongs here as well.) In these contexts, the Old Muscovite style at the beginning of the twentieth century had [a] after soft consonants.

With respect to usage after the middle of the twentieth century, there is disagreement among commentators. Avanesov (1972:70), recalling that [a] was the Old Muscovite norm, concedes that in the nominative-accusative singular
[ɪ] has become possible (“widely known”) and that in the instrumental singular [ɪ] has even replaced [ə] (the latter “must be considered moribund”).  

Avanesov’s view contrasts with that of Kuz’mina (1966) and Panov (1968), who report on a questionnaire administered during the 1960s to 100 students of the cohort 1940–49. In that questionnaire, 98 percent of the respondents had [ɪ] in INS  SG  камне́м ‘stone’ and, surprisingly, 98 percent had [ə] in NOM  SG  поле́ ‘field’. Their results seem quite unambiguous in these two contexts; they are dramatically less ambiguous than in other words in which the vowel is usually thought to be pronounced as [ə] without variation: LOC  PL  го́нях ‘melons’ (74% [ə]) or DAT  PL  го́ням (only 52% [ə]).  

A third view derives from the mass survey in the 1960s (Krysin 1974), according to which [ə] was reported to be basically stable, or slightly increasing, in both contexts. In that survey, the use of [ə] in NOM = ACC  SG  поле́ rose from just above 50 percent for the oldest generation to above 60 percent in the final cohort of 1940–49, and [ɪ] in INS  SG  медвежем ‘bear’ and INS  SG  плачём ‘cry’ basically held constant at 80 percent over the six decades of the survey.  

To summarize about the two contexts, NOM = ACC  SG  мо́ре and INS  SG  море́м: Avanesov believed that both were developing towards [ɪ]; Kuz’mina and Panov found that they were moving in opposite directions; Krysin’s survey suggest that both contexts were developing in the same direction, towards [ə].  

It is difficult to resolve the discrepancy among these sources. A pilot instrumental investigation carried out for this study (six speakers) did not yield unambiguous results. There was no consistent difference between LOC  SG  мо́ре, in which only [ɪ] is expected, and NOM = ACC  SG  мо́ре, in which variation between [ə] and [ɪ] is expected. The one reasonably clear result was that the vowel of INS  SG  море́м had a higher F1 and lower F2 than other vowels in nouns, implying a more [ə]-like pronunciation, evidently in anticipation of the following [m]. From this limited investigation, it was not clear to what extent a categorial distinction between [ə] and [ɪ] remains in these morphemes.

31 A point of notation: Avanesov (1972) uses three symbols: [ɪ], a low back vowel after hard consonants; [ə] is unstressed {ɪ}; and Avanesov’s [a] is the front vowel occurring after soft consonants for series {ə a o}. Other sources (Panov) collapse Avanesov’s two front vowels [a] and [ə] to [a], and Avanesov himself abandons [ə] in favor of [a] in his transcribed texts (p. 356: грём,лень  has [a], not [ə]) and in the summary of phonetic variants (pp. 311–14). In Table 2.4, Avanesov’s [a] and his [ə] are both written as [ɪ], [a] as [a].  


33 Krysin 1974: 114, Fig. 24.
Table 2.4 above focused on endings in nouns, the richest set of morphemes in which variation in post-tonic vocalism can be observed. In addition, soft-stem adjectives generally have [i] (gen sg msc=nt прéжнего, dat sg msc=nt прéжнему, loc sg msc=nt прéжнем ‘former’). The final vowel of singular adjectives after [j] is [a] (nom nt sg стáрое ‘old’, nom fem sg стáрая [ø:s]) but that of the plural normally [i] (nom pl стáрье [i:i]). Present adverbial participles (действительное) have [a] (e.g., пóмня ‘remembering’), a pronunciation that is consistent with [ái] in lexemes with final stress (несá ‘carrying’). Reflexive present adverbial participles still allow [i], under the influence of the following soft consonant (приосáнясь ‘putting on airs’ is Panov’s example). Individual forms such as psv nom msc sg зáнят ‘occupied’, msc sg pst зáнял once had only [i] but now prefer [a].

The thematic ligature that marks the present tense in verbs of е-Conjugation is [ö] (несёшь ‘you carry’, etc.) under stress. Unstressed, the ligature in the middle forms of the present tense is only [i] (2sg лéезь ([ξi8]), 3sg лéёш, 1pl лéём ‘climb’). The third plural is [a] in verbs of the 1-Conjugation (плáтят ‘they pay’ [plátj]).

The Old Muscovite [a] in nom=acc sg мóре and ins sg мóрем is unexpected on phonetic grounds – after a soft consonant in positions of reduction, original non-high vowels have generally become [i]. The origin of the Old Muscovite pronunciation has been disputed. Most likely, it is analogy, at the level of phonetics. The [i] that might be expected after soft consonants was suppressed, or never developed, in deference to the [a] that occurs after hard consonants in the same morphemes: nom sg дерéвья [tsa] imitates nom sg бáба [Cs:a], ins sg мёвэдем [Cs:m] imitates ins sg вóлком ‘wolf’ [Cs:mt]. The fact that [a] can participate in analogy shows that unstressed vowels have some psychological independence. The expected development to [i] did take place in those morphemes whose vowel would not be found unstressed after paired hard consonants (only [i] in loc sg на мóре, 2sg prs лéезь, etc.).

### 2.2.7 Unstressed vowels in sequence

When {a} or {o} follows another vowel, it does not have to share duration with a preceding consonant in its syllable, and it is less reduced, even two or more syllables from the stress: y ocóroľa ‘near the garden’ [u:ko:roľ], ne otošlaľ ‘did not send off’ [ne:ošlalı̂]. An {a} or {o} that is the first in a sequence of two vowels far removed from stress will be fully reduced, as náuľag ‘by guesswork’ [nauľąd], náigráťa ‘play much’ [nauɣrát], except when the first vowel is followed by

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34 Avanesov 1972:71 implies there is a change from [a] to [i]; Kuz’mina 1966 mentions only [i].
35 Panov (1968:49), who relies on Košutić 1919 and Chernyshev 1908.
another [ʌ]. Then the first vowel assimilates to the second and does not reduce, as in за одиноким ‘beyond isolated’ [zɐˈdʲinəkɨm], воодушевлён ‘inspired’ [vɐˈdjuʃəlvʲɨn]. In allegro style the two [ʌ] coalesce and reduce: соотношение ‘interconnection’ neutral [sɐˈtɕnɐʃʲɪn], allegro [sɐˈtɕnɐʃʲɪn]. As the first of a sequence, {e} reduces normally to [i]: необхождимо ‘necessary’ [nʲɪɐrˈfɕɪmə].

2.2.8 Unstressed vowels in borrowings

In foreign borrowings of high culture, unstressed mid vowels (the vowels written as ≤t≥ and ≤j≥) do not necessarily reduce completely according to the rules that apply to native words. They can instead maintain something of the pronunciation of the source language and, though they are shorter, they do not merge with series {a} or {i} according to the usual pattern: лежато ‘legato’ [lʲɨɕátə], геноцид ‘genocide’ [ɡʲɵnəˈtɕit]. As words are assimilated, the semi-reduced foreign pronunciation of ≤j≥ as [o*] yields to [o*] (\[\acute{\o}\]), as in native words. Thus, in certain frequently used borrowings, the usage of [o*] for ≤j≥ declined quite dramatically from the oldest cohort (1890–99) to the youngest (1940–49): конгресс ‘congress’ (63% > 27%), портфель ‘notebook’ (62% > 20%), процесс ‘process’ (76% > 32%), сонет ‘sonnet’ (78% > 41%), рояль ‘piano’ (51% > 25%).

2.3 Consonants

2.3.1 Classification of consonants

The quintessential consonants are OBSTRUENTS (= C), segments that involve obstruction or serious narrowing in the long path from the larynx to the lips. Obstruents are listed above the internal line in Table 2.5. In addition to obstruents, consonants include SONORANTS, a group of sounds that are heterogeneous but share the negative property of being neither obstruents nor vowels. Sonorants are listed below the line in Table 2.5.

Consonants are defined by a complex of articulatory activities. Consonants can be voiced (the membranes of the vocal cords are taut and vibrate) or voiceless (the membranes are open and relaxed, allowing air to pass without vibration). Obstruents can be produced with different trajectories of gestures, or MANNERS of articulation. Obstruents can be stops, sounds that involve a sudden gesture of complete closure (for example, the complete closure of both lips to make a [b]), a short interval of stasis, and a sudden release. Or they can be FRICATIVES, which involve a more gradual restriction of the airflow without complete closure followed by an interval of incomplete closure and then a more gradual release. AFFRICATES are intermediate; they are produced by a stop closure and a

Table 2.5 Russian consonant phones

<table>
<thead>
<tr>
<th></th>
<th>bilabial</th>
<th>labio-dental</th>
<th>dental</th>
<th>(alveo-)palatal</th>
<th>velar</th>
</tr>
</thead>
<tbody>
<tr>
<td>voiceless stop</td>
<td>p</td>
<td>p</td>
<td>t</td>
<td>k</td>
<td>ʃk</td>
</tr>
<tr>
<td>voiced stop</td>
<td>b</td>
<td>ɬ</td>
<td>d</td>
<td>g</td>
<td>ɡɬ</td>
</tr>
<tr>
<td>voiceless affricate</td>
<td>c</td>
<td>ɬ</td>
<td>ɡ</td>
<td>ɡ*</td>
<td>ɡ*</td>
</tr>
<tr>
<td>voiced affricate</td>
<td>ʃ∞</td>
<td>ʃ∞</td>
<td>z*</td>
<td>∞</td>
<td>∞</td>
</tr>
<tr>
<td>voiceless fricative</td>
<td>f</td>
<td>f</td>
<td>s</td>
<td>s*</td>
<td>s*</td>
</tr>
<tr>
<td>voiced fricative</td>
<td>v</td>
<td>y</td>
<td>z</td>
<td>ʒ</td>
<td>ʒ</td>
</tr>
<tr>
<td>glide</td>
<td>j</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>nasal stop</td>
<td>m</td>
<td>ɱ</td>
<td>n</td>
<td>ɲ</td>
<td></td>
</tr>
<tr>
<td>lateral</td>
<td></td>
<td></td>
<td>ɭ</td>
<td>ɭ</td>
<td></td>
</tr>
<tr>
<td>trill</td>
<td></td>
<td></td>
<td>r</td>
<td>ɿ</td>
<td></td>
</tr>
</tbody>
</table>

x₁ = restricted distribution: /i_e/, rarely /a_u/
x∞ = restricted distribution: /ɛ/
x₁ = normally long /V_V/, shortened adjacent to C

brief interval of closure followed by a more gradual release similar to that of a fricative.

Obstruents are also defined by the place of articulation, the place in the vocal tract where the obstruction occurs and, correlative, the mobile organ used to make the restriction. One ingredient of the place of articulation is palatalization. How consonants are palatalized depends on where the consonant is articulated, but there is a basic similarity.

The matrix of obstruents in Table 2.5 is organized by place of articulation along the top, with non-palatalized consonants listed to the left of palatalized. Bilabial stops are produced by closing the lips together: [b], [p]. The closest fricatives [f ʋ] and [v ɣ] are not pure bilabials, but labio-dentals, formed by moving the lower lip up under and close to the upper teeth, constricting the airflow. However, with respect to voicing rules, [v ɣ] do not quite act like well-mannered obstruents, and can be designated as a distinct class of sounds “W” that is intermediate between obstruents and sonorants (§2.3.9). When a labial or labio-dental consonant is palatalized, at approximately the same time the primary closure (or restriction) is made with the lips (or upper lip and lower teeth), the blade of the tongue is arched up and raised towards the hard palate (see [p], broken line in Fig. 2.10). In non-palatalized labials, the tongue is in a neutral position (see [p], solid line, in Fig. 2.11).

Russian has a class of dental sounds whose obstruction is made in the region of the upper teeth. As the dental stops [t ɹ] or the affricate [c] are produced, the tip and blade of the tongue touch against the upper teeth. The body of
the tongue is flat or even depressed, which is to say that hard dental stops are slightly velarized (see Fig. 2.11, solid line).[^38] In producing palatalized dental stops (broken line in Fig. 2.11), the tongue makes contact all the way from the upper teeth through the alveolar ridge and along the hard palate. Whereas with labials palatalization is a somewhat independent gesture, with dentals, palatalization is part and parcel of the articulatory gesture. For some speakers, the palatalized dental stops [t̪ d̪] have begun to develop a touch of frication in their release, especially before [i]: рүн ‘type’ [t̪i], гуко ‘wildly’ [d̪i].[^39]

The dental fricatives [s z] are pronounced with the tip of the tongue pointing towards the top of the upper teeth, leaving an aperture through which air flows turbulently. The hard dental fricatives [s z] are noticeably velarized. The palatalized dental fricatives [s̪ z̪] are made with the front of the tongue making an arch that follows the shape of the teeth and hard palate, with the narrowest aperture at the teeth.

Russian has a group of sounds classed together as having an alveo-palatal (or sometimes simply palatal) place of articulation. In the hard fricatives [s̪ z̪] – the sounds spelled by Cyrillic «ш» and «ж» – the tip of the tongue approaches the alveolar ridge, higher than is the case with [s z]. In addition, [s z̪] lift the sides of the tongue and force air through a groove, while [s z] have a narrow horizontal slit. These (alveo-)palatal fricatives are strongly velarized: the middle of the tongue is depressed and the back of the tongue is arched upwards (solid line, Fig. 2.12).[^40] The sounds [s z] are pronounced as hard, even when (in borrowings) the following vowel letter is «ю»: брошо́ра ‘brochure’ [ʂʊr], парапо́л ‘parachute’ [ʂʊt], though sometimes жю́ри ‘jury’ [ʐɨr]. As a new (hypercorrect?) tendency,

[^38]: Velarization is evident in the sketch of SRLa 1.43. ^39: Matusevich 1976:183.
[^40]: Avanesov 1972:40, Fig. 14; see also Matusevich 1976:182.
Russian has two other alveo-palatal fricatives, [ʃ] (the sound associated with Cyrillic «щ») and [ח:] (an older pronunciation of Cyrillic spellings «жк» or «зж» in certain words such as грожки ‘yeast’, ёжку ‘I drive’, пожже ‘later’). These sounds are palatalized; the tip of the tongue is pointed towards the teeth, and the blade of the tongue curves up along the hard palate (broken line, Fig. 2.12). The alveo-palatal affricate [ɕ], spelled «ш», is likewise “soft” – there is no corresponding hard *[ch]. In its initial closure phase, it involves essentially the same tongue position as [ʃ]; contact is made from the alveolar ridge along the hard palate. In its release, [ɕ] is similar to the soft alveo-palatal fricative [ʃ].

In the production of velars [k ɡ x], the tongue approaches or touches the roof of the mouth, in the region where the hard palate and soft palate meet (solid line, Fig. 2.13). The voiced fricative [ɣ] is quite restricted, occurring only before a following voiced obstruent: трёхнёвный [ɣodont̪]. Palatalized velars [k ɡ x] have basically the same tongue configuration as non-palatalized velars. They differ from non-palatalized velars in that the tongue makes contact (or restriction) further to the front of the mouth (broken line, Fig. 2.13).

Sonorants, listed below the center line of Table 2.5, are a motley group. Nasal stops [m ɳ n ɨ] have a complete closure in the oral cavity like that of a stop – the place of the closure is bilabial for [m ɳ], dental for [n ɨ] – but, in addition, they simultaneously open the velum, allowing air to flow into the nasal cavity and resonate.

41 Kasatkin 2001:86.
The approximate [j] is articulated with a tongue position like that of the vowel [i], so that the blade of the tongue raises close to the hard palate behind the alveolar ridge: [j] differs from [i] in that it is not the peak of syllables and involves greater narrowing of the tongue to the front of the roof of the mouth. Given its tongue shape, [j] is intrinsically soft.

The trills [r̚] are made by one or more taps in the dental region. With the laterals [l̚], the blade of the tongue makes complete closure in the dental region but the sides of the tongue are raised, allowing air to pass laterally (hence the term) along its sides. Together the [r̚]-sounds and the [l̚]-sounds are LIQUIDS. Hard [r] and especially hard [l] are velarized: the middle portion of the tongue is depressed and the back of the tongue body is raised towards the back of the palate.

Collectively, the nasals, liquids (trills and laterals), and the glide [j] can be grouped together as SONORANTS (in notation, the set “R”), a loose class of sounds that are neither vowels nor obstruents. Sonorants can distinguish palatalization, in this respect like obstruents. Unlike obstruents, sonorants lack a distinction of voicing; like vowels, they are normally voiced, and do not cause preceding obstruents to become voiced (§2.3.9). Between an obstruent and another obstruent or word end (the contexts CRC or C#), sonorants can become syllabic: MXATa ‘from MKhAT’ [m/k]t[m/x]Àæ], окtьбрь ‘October’, [ʃk̚b(ə)]], pųbльт ‘ruble’ [r̚b(ə)]], жйзвь ‘life’ [ʒ̚z̚(ə)].

2.3.2 Palatalization of consonants
Most consonants – sonorants as well as obstruents – can be palatalized or not. That is, for almost every consonantal articulation – for almost every combination of place of articulation, manner of articulation, voicing and nasality – there is one sound that is not palatalized and another that is pronounced with similar

42 “I pronounce the word жйзвь as two syllables, with a ‘fleeting’ ɨ” (Trubetzkoy 1975:238).
Sounds

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gestures but is palatalized. For example, both a palatalized voiced labial stop [b] and a non-palatalized [b] occur, and both a palatalized voiceless dental fricative [ʃ] and a non-palatalized [s] occur. Palatalization is similar but not identical for sounds of different places of articulation. Though there are these minor differences, all palatalized consonants influence vowels in the same way.

When a given articulation occurs in both palatalized and non-palatalized forms, that articulation can be said to be paired, or mutable, for palatalization. Thus [b] and [b] are phonetically paired, or mutable. Most consonants are mutable. Labials and dentals obviously are. Velars are as well, although the palatalized forms of velars [k ɸ x] are more restricted than palatalized labials or dentals; they do not occur in all phonological contexts, and they rarely if ever distinguish words in opposition to [k ɢ x].

Some consonants are not mutable: the glide [j] (necessarily palatalized); the hard affricate [c]; the soft affricate [ç]; the hard fricatives [ʃ] (Cyrillic «Ш») and [ʒ] (Cyrillic «Ж»). Although the alveo-palatal fricatives [ʃ; ʒ] are palatalized, they are not paired with [s ʒ] in this sense, since [s ʒ] do not become palatalized at the end of noun stems in the locative singular (о гуше ‘about the soul’ has [s], not *[ʃ] or *[ʒ]; nor in the conjugation of verbs (пивший has [s], not *[ʃ]).

Accordingly, four groups of consonants can be distinguished:

- hard, immutable: [s ʃ c]
- soft, immutable: [ʃ ç ʃ; ʒ;]
- hard, mutable: [p t k x s z], etc.
- soft, mutable: [p ɟ k ɬ x z], etc.

Among labials and dentals, both palatalized and non-palatalized variants occur before vowels and after vowels in word-final position. In both contexts, palatalization can distinguish words. Compare: prevocalic тóмный ‘languid’ [t] vs. тóмный ‘dark’ [t'], пáсть ‘fall’ [p] vs. пáсть ‘metacarpus’ [p]; and final post-vocalic вóпить ‘drunk down’ [t] vs. вóпить ‘to drink down’ [t], готóб ‘ready’ [t] vs. готóб! ‘prepare!’ [t']. Because contrasts occur in final position where no vowel follows the consonant, palatalization (or its absence) must be intrinsic to the consonant, and in a phonemic analysis, it is the consonant, palatalized or not, that distinguishes words in Russian. If palatalization is distinctive for some consonants in that position, it can be assumed to be distinctive in position before a vowel. Thus the contrast of [t] in тóмный ‘languid’ vs. [t] in тóмный ‘dark’ is usually analyzed as a contrast of two types of dental stops, non-palatalized [t] as opposed to palatalized [t].

43 In contrast to the abstract phonology of (for example) Lightner 1972, in which there is a rich set of vowel distinctions and consonants are intrinsically hard, becoming palatalized in the position before (underlying) front vowels.
Palatalized and non-palatalized consonants occur with different degrees of freedom depending on the context (the position in the word) and depending on the consonant itself.

All mutable (phonetically paired) consonants historically were palatalized before \{e\} within lexemes. Palatalization therefore used not to be distinctive in the position before \{e\}. This historical rule, which dates from the period when palatalization first arose in Russian (a thousand years ago, in the period around the fall of the jers), has been eroded in various ways. Consonants at the end of prefixes are not palatalized before a root-initial \{e\} (сэкономить ‘economize\textsubscript{cpf}’), nor is the final consonant of a preposition palatalized before the \{e\} of the demonstrative \sto\ ‘this’ (в \sto\ ‘in that’, под \sto\ ‘under that’, с \sto\ ‘with that’, etc., with [ve], [de], [se], not [ye], *[dye], *[she]).

Consonants remain non-palatalized before \{e\} in abbreviations, when that \{e\} is word-initial in the base word from which it derives, as in \Hep\ (нep, not *[нep] – from “новая экономическая политика”). In borrowings, non-palatalized consonants occur before \{e\}, despite the rule that consonants were historically palatalized before \{e\} (§2.3.3).\footnote{Glovinskaia 1971, Alekseeva and Verbitskaia 1989.} Evidently, this primordial rule is no longer productive in all contexts.

### 2.3.3 The distribution of palatalized consonants

Not all contexts allow both palatalized and non-palatalized consonants. Palatalized consonants are more restricted in their distribution, but non-palatalized consonants occur freely in almost all positions except preceding the vowel \{e\}.\footnote{Glovinskaia 1976.} The distribution of palatalization is sensitive to the type of consonant involved.

Dentals distinguish palatalization before all vowels except \{e\}. Dentals are even developing a distinction before \{e\} in borrowings, and are doing so more readily than other consonants. Palatalized dentals can occur when no vowel follows. Dental stops occur palatalized in final position after a dental fricative (шесть ‘six’, го́лень ‘nail’ [st] vs. ше́сть ‘pole’, гро́зь ‘thrush’ [st]). At the other end of a word, a palatalized dental stop can occur in word-initial position dissimilatively before a non-dental (тъма ‘darkness’, тьф’y ‘phooey’). Word-internally not before vowels, palatalized dental obstruents occur dissimilatively before velars and labials, but not before other dentals or palatals: та́тьба ‘thievery’, сва́дьба ‘wedding’, тётка ‘aunt’, Пётка ‘Pete’. Derivational suffixes that now begin with a consonant, such as -п, once began with etymological *b, a high front vowel which, a thousand years ago, palatalized the preceding consonant. Now consonants are not palatalized before these suffixes: -цик (фонáрцик but фонáрь...
‘lantern’), -ник (лárчик ‘box’ but лárь ‘chest’), -ник (тróстник ‘reed’ but трóсть ‘cane’), -ный (яятáрный but янятárь ‘amber’).


Labials, before vowels other than {e}, can be either non-palatalized (пáсть ‘fall’) or palatalized (пáсть ‘metacarpass’). Labials are not palatalized internally before suffixes that once conditioned palatalization: *рабáскóй > рáбский ‘servile’. Labials distinguish palatalization in word-final position after vowels: кóнь ‘mine’ vs. окóн ‘trench’, сóтов ‘ready’ vs. сóтов ‘make ready’! They can even occur in word-final position after consonants, in хорóй ‘standard’, аéтв ‘branch’. Final palatalized labials in isolated grammatical forms were lost early in the history of Russian (атематич 1SG PRS *дáть > гам ‘I give’, INS SG *-УМБ > {-ом}),46 and there is a slight tendency to lose palatalization in labials at the end of words in other instances, for example, вóсемь ‘eight’ [m] ~ [m].

Velars [k g x] can be either palatalized or non-palatalized. For the most part, the variants are distributed in complementary fashion: the palatalized variant occurs before {i e}, the hard variant elsewhere – before other vowels and in a position not before a vowel. However, exceptions to this strict complementarity have begun to appear. Palatalized velars occur before the [o] functioning as the ligature in the second singular through second plural of the present tense of velar-stem verbs, with varying stylistic values in different words. By now, [k] is standard in forms of ткáть ‘weave’ (2SG ткéй, etc.), while [g] was used by about half of speakers (in the survey of the 1960s) in жéнь ‘burn’ (3SG жгёт for standard жжёт), and [k] by a quarter of speakers in пéчь ‘bake’ (2SG пекéй); in the last two the palatalized velar is not normative. To the extent that present adverbial participles are permitted from velar-stem verbs (they are not universally accepted), the form has a palatalized velar (берегá ‘protecting’) by analogy to other obstruent-stem verbs (несá ‘carrying’). Palatalized velars appear before {a o u} in borrowings in the previous century: гáйр ‘giaour’, бракёр ‘inspector’, курé ‘curé’, маникёр ‘manicure’. Palatalized velars do not occur in final, postvocalic position. Non-palatalized velars do not occur before {e i} in native words, although a non-palatalized pronunciation is normal for the [k] of the preposition к before {i} and {e}, as in к игрé ‘to the game’ or к этому ‘to that’ or for

46 Shakhmatov 1925.
velars in compounds, as in дву́хто́жный ‘two-storied’ [x]. In this way, there is a contrast of sorts between palatalized [k] internal to morphemes (ки́нутъ ‘toss’ > [kí]) and non-palatalized [k] in the prepositional phrase (к и́ноку ‘to the monk’ > [kí]). Thus velars are moving towards developing a contrast for palatalization.

In native words, all mutable hard consonants (all hard consonants except [c] § 2]) are palatalized in the position before {e}. In borrowings, a non-palatalized pronunciation is possible to a greater or lesser extent, depending on how well assimilated the individual word is, the familiarity of a given speaker with foreign languages, and systemic properties. When the question was investigated in the 1960s, it was found that in some words – seemingly more ordinary, domestic words – the frequency of a hard pronunciation was increasing: ре́йс ‘route’, консё́ры ‘conserves’, конкре́тный ‘concrete’, берёт ‘beret’, резё́ра ‘reserve’. With other – more scientific – words, the percentage of the population using palatalized consonants decreased from the oldest to youngest cohort: артё́рия ‘artery’, инерция ‘inertia’, кри́терий ‘criterion’, энергия ‘energy’, бакте́рия ‘bacteria’. And in a third group there is no clear direction of change: прогресс ‘progress’, пате́нт ‘patent’.47 Hard consonants are more easily maintained in stressed than in unstressed position. Dentals most frequently allow hard consonants, then labials, then velars. Yet a hard pronunciation does occur with labial, and with velars: бемоль ‘b-flat’ [bëmoļ], мэр ‘mayor’ [mër], пёр ‘peer’ [për], гё́mma ‘engraved stone’ [géма], кё́минг ~ кэмпинг ‘camping’ [këmping], хё́ммок ‘hammock’ [xémök], ě́тто ‘ghetto’ ([gē] ~ [gé]).48

Overall, the possibility of having a contrast of palatalized and non-palatalized consonants depends on a number of parameters. The possibility of a contrast for palatalization depends on the place (and secondarily manner) of articulation of the consonant itself, dentals favoring the distinction more than labials, which in turn favor the distinction more than velars; yet velars at least have positional variation for palatalization, thereby ranking them ahead of the immutable consonants [c] § 2]: [q], [ç], and [ʃ]. Having a contrast in palatalization also depends on context. A contrast for palatalization is most likely before vowels (/V\), less likely in a position after a vowel with no vowel following; within the latter environment, palatalization is less likely than before a consonant (/V_C\) than in word-final position (/V_#\) – perhaps because in most instances in which a palatalized consonant would appear word-finally, the given form alternates with another form in which a vowel follows (ном.sg. сё́лубь ‘dove’ [p], ген.sg. сё́лубь [bo]). Palatalized consonants are infrequent in contexts not adjacent to a vowel, though they can occur (тёмá ‘darkness’, жи́знь ‘life’, ру́бль ‘ruble’, хору́сь ‘standard’). Among vowels, a distinction is made more readily before back vowels.

than before front. Because back vowels have a lower $F_2$, their $F_2$ is affected more by palatalized consonants than is the $F_2$ of front vowels, whose high $F_2$ has less room to change in the vicinity of palatalized consonants.

### 2.3.4 Palatalization assimilation

In sequences of two consonants in which the second is palatalized, the first may or may not be palatalized by assimilation. This is just a question of the timing of the articulatory gesture of palatalization. If the raising of the blade of the tongue occurs anticipatorily as the first consonant is formed, assimilation has taken place; if raising occurs within the sequence of consonants, then assimilation has not occurred. Whether palatalization extends over both consonants or begins in the middle of the cluster depends on the extent to which the two consonants are articulatorily linked in other respects. The more linked the two consonants, the more likely it is that palatalization will extend throughout the cluster. There is variation, and the trend is very much towards losing assimilation.\(^{49}\)

One way to approach the variation is to examine the recommendations of Avanesov (1972) for one morphological context in which most combinations occur, specifically the context of prefix and following root. To see the effect of place of articulation, we may examine combinations of fricative plus stop in Avanesov’s recommendations and compare them with Krysin’s (1974) survey of usage, in which younger speakers (the last two decades, born between 1930–39 and 1940–49) represent half of the speakers interviewed.

Avanesov does not explicitly mention the combination of labial followed by dental, nor does Krysin (1974) consider it, an indication that assimilation is out of the question in this context. From Table 2.6 we derive a hierarchy of likelihood of assimilation: $TT \geq TP \geq PP \geq PT$.\(^{50}\) Comparing the first two terms to the last

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\(^{49}\) See Drage 1967[a], 1967[b], 1968, on factors. Contemporary speakers have rather less – if any – assimilation than was reported by Drage and Krysin (in the mid-1960s).

\(^{50}\) Krysin (1974:82) states the hierarchy as $TT \geq PP \geq TP$ (and then presumably $\geq PT$), based on the overall incidence of palatalization in all types of morphological contexts. The hierarchy artefactually reflects the kinds of examples tested. Many of the examples of dental plus labial involve prefixes
two, we note that dentals, as targets, undergo assimilation better than labials. Comparing the first two terms ($TT \geq TP$) leads to the result that the same place of articulation in the source and target consonants favors assimilation, because there is no shift in the place of articulation internal to the cluster.

Before velars assimilation is restricted. Labials no longer assimilate; thus in *лапки* ‘paws’, the pronunciation [pқ] that occurred at the end of the nineteenth century gave way long ago to [pк]. Assimilation of dentals to velars is out of the question: *таблетки* ‘tablets’ [tқ], *гладкими* ‘smooth’ [tқ]. Velars before velars once assimilated (*мягкий* [хқ] ‘soft’), but the tendency is again towards hardness ([кқ]).

Table 2.7 shows the effect of manner of articulation.

Avanesov’s discussion of these combinations of dentals and labials implies a two-way grouping of $ZV \approx ZB \geq DB \approx DY$.\(^{52}\) His discussion of combinations involving labials implies $VV \geq VB \geq BB \approx BV$, and his discussion of combinations involving only dentals implies a hierarchy of $SS$ (иссекнуть ‘dry up’ [sʃ] ≥ $ST$ (раздел ‘division’ [zd] ≥ $zdl]) ≥ $TT$ (погорчать ‘support’ [dʃ] ≥ $dšd] ≥ $TS$ (отсечь ‘hack off’ [tʃ]).\(^{52}\) Combining the various kinds of information leads to the hierarchy (using the symbols for dentals as general symbols): $SS \geq ST \geq TT \geq TS$. That hierarchy encodes two principles: fricatives are more likely to assimilate than stops (the first two terms of the hierarchy as opposed to the last two), and consonants that have the same manner of articulation assimilate better than those that have heterogeneous manner (the first and third terms as opposed to the second and fourth). Thus identity of manner, when there is a single elongated articulation without an internal change in manner, favors assimilation.

or even prepositions (*без вилки* ‘without a fork’, *с пивом* ‘with beer’), in which no more than 10 percent of speakers use palatalized dentals. These examples depress the extent of palatalization with dental targets. Among morphologically comparable examples, the 16 percent of *вбежать* (the only example of labial fricative before labial at a prefix boundary) compares unfavorably with *извините* (35%), *избить* (32%), or even *взвёл* (22%).

51 Matusevich 1976:203.
52 Trubetzkoy (1975:184) noted in 1930 that there was no palatalization across prefix boundaries in *отшёрифтировать*, though there would be assimilation internally in *бритький*.
In combinations of dentals, dental stops do not assimilate to a following lateral [l] (assimilation to [ɾ] is out of the question), because there is a shift to a different mode of articulation (lateral) within the cluster. Dental obstruents assimilate better to dental nasals [ŋ], presumably because the oral component of a dental nasal is effectively just [ŋ].

Additional factors have emerged in other investigations. Clusters in which voicing is maintained throughout seem to assimilate better (звё́рь ‘beast’ 30%, гвё́рь ‘door’ 30% in Krysin’s survey) than clusters in which voicing switches and introduces an internal articulatory boundary (товё́рь 17%) or than in voiceless clusters (спи́нка ‘back’ 15%). Intervocalic position favors assimilation over absolute initial position (леснýк ‘forester’ 49%, во снé ‘in sleep’ 54%, but снé ‘snow’ 28%).

The position before [j] is a special case. Dentals within words assimilate well to [j]. Assimilation to [j] of a dental in a prefix is possible but not obligatory (съёл ‘ate up’ [szj], изьять ‘extract’ [zj] ~ [z], покёт ‘ascent’ [dzj]) and infrequent in a preposition (из ямы ‘from the pit’: [izj], outmoded [izj], only от лёкки ‘from the fir tree’ [atiok]). With labials before [j] within words, assimilation still predominates (over 50% of speakers with побёём ‘we’ll beat’ and ворообы ‘sparrow’), but assimilation is unlikely in prefixes (объёхать ‘drive around’ [abjok]).

2.3.5 The glide [j]
The glide [j] has realizations ranging from strong to weak to weakest. It is pronounced as a relatively strong, more consonantal [j] before a stressed vowel: яма ‘pit’ [jama], якорь ‘anchor’ [jakor]. In other positions it is a weaker, less consonantal [j]: язык ‘language’ [izik] (initially before unstressed vowel), гёлант ‘they do’ [dzet] (medially before unstressed vowel), хозяйка ‘mistress of the house’ [kszjka] (after vowel before consonant), стёрой ‘old’ [staro] (after a vowel, not before a consonant).

There is a third, even weaker, pronunciation, and that is nothing. The glide [j] merges into the adjacent vowel. It is normally lost in verbs of the е-Conjugation: знаешь ‘you know’ [znais], гёлаеть ‘you do’. It is often inaudible in decennial endings: с уважёнием ‘with respect’ [tio] ~ [t]; стёрое ‘old’ [dto] ~ [t]; грёзное ‘threatening’ [zio] ~ [t]; ору́жие ‘weapon’ [tio] ~ [t].

The glide is also absorbed after a vowel before a following stressed [j]. Forms like мо́й ‘my’ [maj], сто́й [staj] ‘I stand’ imply stems {moj-}, {stoj-} including

53 In reference to hard [v]: “the pronunciation [. . .] [bjra] cannot be considered correct” (p. 127), a statement which applies to a third of the population, including those with higher education.
56 SRIa 1.109.
[j], but that [j] is not pronounced before [i]: мой [maï], стоишь [stalîš]. However, [j] is maintained after a consonant before stressed [i]: чьи ‘whose’ [çij], воробьи ‘sparrows’ [bji].

In words that begin with {i}, there is no [j] left at all. As a result, when initial {i} is put after a prefix or independent word ending in a consonant, the vowel that is pronounced is [i] (unstressed [i]): в их гдоме ‘in their house’ [vinydomi], дал им ‘he gave to them’ [dâlim], в Индии ‘to India’ [vîndîju]. Interestingly, [j] is maintained after a consonant before stressed [i]: в чьих ‘whose’ [vîci], джихим ‘sparrows’ [bi]. However, [j] is maintained before [i] that derives from a non-high vowel – Ярославль [îraslî], ещё ‘still’ [îçi], в его [vîvî], нот *[vîvî].

2.3.6 Affricates
The affricates [c] and [ç] begin, like stops, with a sudden initial closure, which is followed by a static interval of closure, but the closure is released more gradually than with an ordinary stop, in a fashion similar to the release of a fricative. To indicate their mixed character as part stop, part fricative, it is sometimes convenient to write the affricates as combinations of two symbols: [c] as [s], [ç] as [ʃ]. Affricates are not, however, simply clusters. They are not appreciably longer than fricatives [s]. The affricate [c] does not palatalize before {e} (в конце) as might be expected if it were composed of [t] plus [s], inasmuch as [s] does (о лее). The affricate [ç] does not condition a vowel in unstressed imperatives like true clusters: плачь ‘cry’!, не мучь ‘don’t torment!’.

While affricates in Russian are units, clusters of consonants result in phonetic sequences like affricates. Word-internally, a dental stop [t] that is followed by [c] or [s] ([ʃ]) will become a single consonantal complex consisting of a stop onset, a long static interval of closure (written here as “tt”), and a fricative-like release: gen sg братца ‘chap’ [braîsa], стремиться ‘strive’ [îs], identically 3sg prs стремится [îs]. Similarly, a dental stop [t] plus [ç] becomes an affricate with an elongated closure: вóтчина ‘patrimony’ [vîs]. If such a combination is placed before an obstruent, the long closure will be shortened, becoming equivalent to the affricate [ts] = [c]: Петрозаводск [vôsk] = [vôck].

When combinations of stops and fricatives arise at prefixes, they maintain the duration of the fricative of the following root while the preceding hard stop develops the release of an affricate: отсичеть ‘sit out’ [ç] = [çs], надзиратель ‘overseer’ [çi] = [çs], отшить ‘rebuff’ [çi] = [çs], отжать ‘become obsolete’ [çi] = [ç].

This [çi] or [çs] – a dental stop onset of normal duration followed by the release of an affricate to a full hard alveo-palatal fricative – is the recommended pronunciation for orthographic «дж» in borrowings: гжаз [dçz], гжем [dçz].

57 Trubetzkoy (1975:237).
58 In other systems of notation, one could write [c] = [çs], [ç] = [s] or [çi].
59 SRIa 1.106–7.
There is, then, a range of complex articulations of stop and fricative, which can be ranked in order of increasing duration: true affricates \([c \, \check{\zeta}] = [ts \, \check{t}]\), which are usually lexical (also derived from clusters of \([t]\) and \([s]\) before consonants: \(\check{\text{брёцкись}}\) ‘brotherly’); affricates with long closures derived from stops followed by fricatives or affricates, \([\check{t}s \, \check{t} \check{s}]\); and complexes with full fricative releases, \([\check{t}s \, \check{s} \, \check{d} \check{z}]\).\(^{61}\)

2.3.7 Soft palatal fricatives

The sound represented by the letter «\(\check{m}\)» derives etymologically from Common Slavic palatalizations (*\(sk\) before front vowel and *\(stj\)); it is also the Russian interpretation of the Church Slavonic reflex of *\(tj\). Earlier it was pronounced with an internal closure: \([\check{s}\check{c}]\) or, equivalently, \([\check{s}\check{s}]\). Throughout most of the Russian dialect area, this older pronunciation has lost out to a Muscovite pronunciation in which the internal stop closure has weakened, resulting in a more or less homogeneous long, soft alveo-palatal fricative \([\check{s}]\): \(\check{\text{бóри}}\) ‘borsch’ [bóřs]. In the sociolinguistic survey of the 1960s, \([\check{s}]\) was used by close to 80 percent of speakers born in 1940–49 in \(\check{\text{бóри}}\) and \(\text{и́й}\), the most favorable lexical items.\(^{62}\) And although \([\check{s}\check{c}]\) is often said to be a Petersburg variant, another survey from the same period had ninety percent of (then) young Leningrad natives born after the war using the national variant \([\check{s}]\).\(^{63}\)

In addition to lexical instances of \([\check{s}]\) (бóри, etc.), this sound also arises productively in combinations of dental fricatives \([s \, z]\) with \([\check{c}]\).\(^{64}\) Dental fricatives \([s \, z]\) often assimilate in place of articulation to palatals across prefix and preposition boundaries: \(\check{\text{снáть}}\) ‘suture’ \([\check{s}\check{s}]\), \(\check{\text{с женóй}}\) ‘with the wife’ \([\check{z}\check{z}]\), \(\check{\text{без жáйра}}\) ‘without fat’ \([\check{z}\check{z}]\). These fricatives also assimilate to a following \([\check{c}]\) in place of articulation and, since \([\check{c}]\) is palatalized, for that feature as well: \(\check{\text{исчáлить}}\) ‘calculate’, \(\check{\text{с чéстью}}\) ‘with honor’ \([\check{s}\check{c}]\). As a further stage, the stop closure in the middle of the complex can be lost: \([\check{s}\check{c}] = [\check{s}\check{t}]\) > \([\check{s}]\). Which variant occurs, whether \([\check{s}\check{c}]\) or \([\check{s}]\), depends on how cohesive the two units are: the weaker the morphological boundary, and the more lexicalized the combination, the more likely the further stage of \([\check{s}]\) is. By now \([\check{s}]\) is usual in suffixal derivatives (расскáзчик ‘raconteur’) and in idiomatized prefix–root combinations (счáстье ‘happiness’, исчёзну́ть ‘disappear’); it is possible with free prefix-root combinations of the type исчáлить, расчищáть ‘clean’, исчертáть ‘sketch out’, бесчестнýй ‘dishonor-able’. In the 1960s, on the order of 10 to 20 percent of all speakers surveyed used \([\check{s}]\),\(^{65}\) and it is not uncommon now for speakers under forty. Loss of closure is rare with preposition and noun, though it occurs in idiomatic combinations:

\(^{61}\) Trubetzkoy (1975:182), however, allows that these distinctions are blurred in allegro style.

\(^{62}\) Krysin 1974:100.


\(^{64}\) And in principle palatal fricatives \([s \, z]\), as in перебéжчик.\(^{63}\) Krysin 1974:102–3.
It is difficult to assign an unambiguous phonemic analysis to [s:] if one expects to define a set of features that distinguish it invariantly from all other sounds. What necessary property would distinguish [s:] from [s]? If [s:] were viewed as the soft counterpart of [s], one might expect [s] to become [s:] before the -e- of the (dative-)locative. It does not: о карандаше [sэ], not *[sэс] or *[sэ]. Further, [s:] is often phonetically long, and it conditions a vowel in the imperative (рьскать ‘roam’, имв рьщи; мьричать ‘pucker’, имв морить), as is characteristic of clusters. Defining [s:] as the soft counterpart of [s] would not motivate its characteristic length. But length cannot be its necessary property, because the length sometimes disappears. As a third possibility, it might be tempting to think that [s:] in general derives from a cluster – from [sц] or [sц] or, with an abstract fricative, from [Sc], inasmuch as [s:] arises productively from clusters of dental or palatal fricative and [c] (пасскачн). This analysis violates invariance in another way. It is usually assumed that [c] differs from [s] by not being continuous. If all [s:] derive from [c], then [c] has an allophone [s] which is continuous, in violation of this invariant property. There seems to be no analysis which would not violate one or another axiom of structuralist phonemics and, accordingly, no option other than simply restating the facts: [s:] is a soft alveo-palatal fricative; it is historically a long consonant, though it sometimes shortens; it does not form a canonical pair with [s]; and it can arise from combinations of fricatives with [ц].

Superficially parallel to [s:], there is also a voiced [z:], which, however, differs in certain respects. With [s:], softness is maintained in all contexts, regardless of whether length is maintained. In contrast, the soft pronunciation of [z:] is yielding to a hard pronunciation [z:], on a lexeme-by-lexeme basis. In the 1960s, [z:] was used by over half of the speakers of all ages in грохнуть ‘yeast’, the word with the greatest incidence of [z:], after which came брызгать ‘gush’, визжать ‘squeal’ (a third), then езжу ‘I drive’, пёжке ‘later’ (a quarter), and finally можжевельник ‘juniper’ (15%). Nowadays [z:] is quite limited among speakers under forty. Included in the set of relevant words should also be гожь ‘rain’, gen sg гожь (likewise, вожь ‘leader’, вожей), which allows either this pronunciation (that is, [z:] or, with devoicing, [s:]) or one with a palatal fricative and dental stop (that is, [zд] or devoiced [sд]). The pronunciation with a stop has become usual; only a fifth of speakers surveyed still used [z:] in the 1960s.

In the most explicit register, [s:] is generally pronounced with length, but it is often shortened to [s]. Table 2.8 lists most environments.

The table suggests the following observations. Intervocalic position (−<a>) preserves length. (A sonorant intervening between a vowel and post-vocalic [s:] does

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Table 2.8 Degemination of [s]:

<table>
<thead>
<tr>
<th>context</th>
<th>pronunciation</th>
<th>(possible) syllable structure</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;a&gt;</td>
<td>[V-V]</td>
<td>V§V</td>
</tr>
<tr>
<td>&lt;b&gt;</td>
<td>[#_V]</td>
<td>§§V</td>
</tr>
<tr>
<td>&lt;c1&gt;</td>
<td>/V_/##</td>
<td>§§ ~ ±[s]</td>
</tr>
<tr>
<td>&lt;c2&gt;</td>
<td>/V_#</td>
<td>±[§]~ ±[s]</td>
</tr>
<tr>
<td>&lt;d1&gt;</td>
<td>/V.CV</td>
<td>±[§]~ ±[s]</td>
</tr>
<tr>
<td>&lt;d2&gt;</td>
<td>/V.CV</td>
<td>[§]</td>
</tr>
<tr>
<td>&lt;e&gt;</td>
<td>/VC_#</td>
<td>[§]</td>
</tr>
</tbody>
</table>

± = less acceptable variant

not shorten it: носи́льщик ‘porter’ [l§:], обма́нщик ‘deceiver’ [n§:]. Length is also preserved in absolute initial, prevocalic position (<b>). Before a following consonant ([n] or [ŋ]), length is often lost: <d2>, беспóмо́щный ‘helpless’ [ŋ], чудо́вищный ‘monstrous’ [ŋ], though its length may be preserved after a stressed vowel: <d1> извё́дный ‘elegant’ [§m] ~ ±[n]. A preceding obstruent shortens [§]:<e> гардеро́бщик ‘cloakroom attendant’ [p§], брако́вщик ‘sorter’ [f§]. In absolute final, post-vocalic position, length is also vulnerable: <c1> товáрìц ‘comrade’ [§i] ~ ±[§], пóмо́щ ‘help’ [§i] ~ ±[§], though less so after a stressed vowel: <c2> мóщи́ ‘might’ [§i].

These regularities might at first glance seem to follow from syllable structure. Context <a> suggests length is preserved when [§] is ambisyllabic between vowels, and context <b> suggests length is preserved in syllable-onset position, while <c1, c2> suggest that the coda position is less than ideal. Up to this point the distribution is consistent with principles of syllable structure. But if <d1, d2> is ambisyllabic [V§.ŋV], [ŋV] should be an acceptable onset, yet length tends to be lost. In <e>, length is lost despite the fact that the cluster could be in syllable-onset position, as [VC.ŋ§V]. In fact, in <d> and <e> it does not matter which syllable [§i] belongs to. The constraint is whether [§i] is adjacent to another consonant. The adjacency of another consonant – regardless of its syllable allegiance – is sufficient to shorten [§i]. The regularities of Table 2.8 do not follow from syllable structure.

2.3.8 Geminate consonants
Clusters of identical consonants, as they are written in the orthography, are likely to be simplified in speech, depending on various factors: tempo, register, familiarity of the word, the ability of the geminate cluster to occur in native Russian words. When geminates arise at the boundary between prefix and root,

70 According to Avanesov 1972. Panov 1967 transcribes such words with [§].
71 Avanesov 1972 has length here, Jones and Ward (1969:139) shortness.
they are normally maintained. At internal boundaries, only \([mn]\) and \([ss]\) occur. Geminate spellings involving most consonants occur in foreign borrowings, and then the gemination may or may not be maintained in pronunciation.\(^{72}\)

Certain segments tolerate gemination more readily than others. Geminate \([rr]\) is quite unlikely. Geminate stops occur occasionally (грънта ‘group’ 55%, хоккей ‘hockey’ 34%). Geminate \([ss],[nn],[mm],\) and \([ll]\) are the most likely. With respect to position in the word, geminates are best maintained between vowels, and they are maintained better following a stressed vowel than following an unstressed vowel. Compare: мъска ‘mass’ (88%), къска ‘cashier’ (85%), комъсия ‘commission’ (48%) as opposed to классиче́ский ‘classic’ (44%), бассе́йн ‘pool’ (44%). In fact, no less of a native informant (and phonologist) than Trubetzkoy wrote in a letter to Jakobson that geminate \([n:]\) was possible only after stressed vowels; the sequence would be shortened after unstressed vowels.\(^{73}\) In word-final position after a vowel, geminates are often simplified but can be maintained (ном sg къска ‘cashier’ 85% [s:] vs. gen pl къс 52% [s]). Before a following consonant (in the context \(VC,C_i C_j V\)), geminates are lost, as is sometimes reflected in spelling: оперетта ‘operetta’ but оперетка, русский [sk], дим грънпка [pk], дим програ́мма [nk].\(^{74}\) Just as with [s:], if a potential geminate is adjacent to another consonant, it loses length.

In general, maintaining gemination (including [s:]) requires an environment which grants a large measure of duration to the interval of obstruents. Intervocalic position, when the geminate is supported on both sides by vocalic intervals, is more favorable to maintaining gemination than absolute initial (prevocalic) position. Both are more favorable to geminates than absolute final (post-vocalic) position. Position adjacent to an obstruent is inferior. Position after a stressed vowel favors maintaining the geminate.

2.3.9 Voicing of consonants

In Russian some obstruents are voiced, some voiceless. Voiced obstruents such as [d], [g], [z] are produced with the vocal cords taut and therefore vibrating through much of the duration of the obstruent – in Russian, voiced stops are voiced through more of their duration than voiced stops in English.\(^{75}\) Voiceless consonants such as [t], [k], [s] are produced with spread vocal cords that do not vibrate. Almost all obstruents come in pairs that differ only by voicing. Both kinds of obstruents can occur in the context before vowels and distinguish words: бить [b] ‘be’ vs. нить [p] ‘drink’, ге́ло [d] ‘matter’ vs. тело [l] ‘body’.

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\(^{73}\) Trubetzkoy 1975:237.

\(^{74}\) SLR 1.107–8.

\(^{75}\) Initial [d] is voiced in English only 60 percent of its duration, Russian [d] 90 percent (Heffner 1964:130).
The obstruents [c č x] are normally voiceless, though they do become voiced preceding a voiced obstruent within a minimal domain: отец был ‘father was’ > [ʒb], ткач был ‘the weaver was’ > [ʃb], лечение ‘healing’ [ʒb], двухнедельный ‘two-day’ [ɣdʒ]. The voiced phones [ʒ ʒ ɣ] do not normally occur before vowels by themselves. (Historically, [ɣ], a Slavonic pronunciation, could occur autonomously, in certain lexical items such as благo ‘well’, Бог ‘God’, господь ‘Lord’.)

Sonorants are intrinsically voiced. They do not come in pairs that differ by voicing, although sonorants become voiceless in specific contexts. Vowels sometimes become voiceless when they are unstressed between voiceless consonants.

In addition to the paradigmatic constraints on voicing, there are syntagmatic constraints, or “rules,” governing how voicing is distributed in connected speech. Because voicing involves vibration of the vocal cords, absence of voicing is generally taken to be articulatorily less complex and less marked than voicing. But speech might be viewed as basically voiced, and absence of voicing – voicelessness – as an interruption of the flow of intrinsically vocalic, and voiced, sound. An interlude of voicelessness must be initiated by an active gesture of opening the glottis (“[”) and terminated by a gesture of closing the glottis (“]”). These gestures coincide more or less with the oral gestures that define the boundaries of segments; for example, in making [p] in отецъ, the glottis spreads (and voicing stops) as the lips close and the glottis is closed (and voicing resumes) as the lips open.

Vowels tolerate a boundary of voicelessness on either side. In тётъ ‘aunt’, the stressed [ə] tolerates the onset of voicelessness on its right margin and the end of voicelessness on its left: [ɪjɪː]tə. Sonorants (= “R”), intrinsically voiced, extend the vocalic domain, in that they allow a boundary of voicelessness on either side. For example, [ɾ] allows the onset of voicelessness on its right margin in марка ‘stamp’ [mɑr[k]ə]; and before a vowel, [y] and [l] tolerate the end of voicelessness immediately before them in свекла ‘beet’ [ʃvɨkla]. Sonorants followed by vowels allow preceding obstruents to distinguish voicing: гля ‘for, on behalf of’ and тлеть ‘beetle’, which differ by initial [d] and [l], or тлеть ‘rot’ > [l] vs. глубинный ‘long’ [d], пьют ‘I drink’ > [p] vs. бьют ‘I beat’ [b]. Before a vowel, the two members of the small class of W, voiced labio-dental approximates [v y], also allow both voiced and voiceless obstruents to precede (глухой <GEN> ‘a pair’ [dv] vs. твой <GENPL> ‘your’ [lv]), just as sonorants do. The distribution is recursive, so that a series of these sounds (sonorants R or W) before a vowel permit obstruents of either type: от много ‘from much’ [dmn] vs. под много ‘under much’ [dmm],

As emerges below, the relationship of [ʃ] to [v y] is not the same as that between [b] and [p], and it might be justified to include [ʃ] in the list of consonants that are unpaired for voicing.

Browman and Goldstein (1986[a], [b]) argue that voiceless consonants in English and French are marked by an active “glottal closing-and-opening gesture,” gestures which voiced stops lack.
развратить ‘dissipate’ [zvr] vs. отвратить ‘repel’ [tvr]. In this respect the class W behaves like sonorants.

Russian has two syntagmatic rules of voicing that apply obligatorily and almost exclusively to obstruents: voicing assimilation and word-final devoicing. Within a sequence of obstruents, all obstruents must have the same voicing as the last segment of the sequence; for example, the sound corresponding to «ж» is voiceless [s] before voiceless [k] in ножка ‘knife [DM]’ (it surfaces as [z] only in the gen pl ножек), while the sounds corresponding to «с» and «ть» are voiced in пастыбá ‘pasturage’ [z(d)b]. Viewed in terms of gestures, voicing assimilation is the constraint that no boundary of voicelessness can fall between obstruents; voicelessness cannot begin between the two obstruents of ножка *[z/k], nor can the end of voicelessness fall in the middle of the obstruent interval of пастыбá *[s(t)]b].

Voicing assimilation is thought to apply without exception within words and at the boundaries of prefixes or prepositions and words: отбил ‘repelled’ [db], с берега ‘from the shore’ [zb], поступил ‘sign’ [tp], девка ‘wench’ [fk]. Assimilation is usual before enclitics beginning with voiced obstruents (голь бу ‘daughter might’ [zb], отец же ‘father indeed’ [z2], вот бу ‘well now’ [db]), possible but not obligatory in compounds (партбилет ‘party card’ [tb] ~ [db]), and occasional between independent words, at least in close syntags (and with connotations of colloquial register): наш знаменитый (киевский торт) ‘our famous (Kiev tort)’ [zz], конец года ‘end of the year’ [cg] ~ [3g], мать с детьми ‘mother with children’ [zd] ~ [zd], голь вдовь ‘daughter of a widow’ [vd] ~ [zd], трудность заключалась ‘difficulty consisted of’ [s(t)]z ~ [zd]z, зуб болит ‘tooth hurts’ [pb] ~ [bb], голь была ‘daughter was’ [cb] ~ [zb], отец был ‘father was’ [cb] ~ [zb].

When assimilation occurs, it appears that there is neutralization. That is, a lexical [s], when voiced, is identical to a lexical [z], and conversely, a lexical [d], when devoiced, is identical to [t].

Final devoicing pushes the beginning of voicelessness as far back into the end of the word as possible. Thus the sound corresponding to «ль» in тетрадь is voiceless [l [t]rд[ь]], and, by voicing assimilation, the onset of voicelessness is pushed back to include both obstruents in гвоздь ‘nail’: [гvд[ь]]. Devoicing occurs without exception in phrase-final position, normally in the first word of a phrase consisting of two independent words (гег умêл ‘grampa left’ [t], трýг людêй ‘labor of people’ [l]), usually but not always at the end of a word

78 Some information is given in Paufoshima and Agaronov 1971.
79 There are still questions to be investigated in the phonetics of consonants participating in voicing rules. Drage 1968 noted some occasional exceptions to the rules. Barry (1988) considered the possibility that final devoiced obstruents maintain some properties characteristic of voiced consonants, but does not find consistent evidence of a phonetic difference. Burton and Robblee (1997), examining assimilation, found that consonants neutralize.
before a clitic beginning with a sonorant or a vowel (гёг уж ‘grampa already’ [t], зыб лу ‘the tooth?’ [pl]). Primary prepositions maintain voicing before sonorants and vowels (ног лами ‘under the lamp’ [dl], беэ мни ‘without many’ [zmn]). However, root and prefixal prepositions have a stressed vowel, marking them as autonomous words (блайз ‘near’, сквоэ ‘through’, пртв ‘against’, вслеэ ‘following’), and their final consonants devoice: сквоэ лес ‘through the forest’ [э].

As noted, sonorants (R) and labio-dental approximates (W) are normally voiced. However, they are not completely inert with respect to voicing rules. W is less inert than sonorants. The relevant contexts are these.

**<a> V__#:** In final open position after a vowel, the two members of W devoice and become identical to the voiceless obstruents [f f]: кроа ‘roof’ [f], кробы ‘blood’ [f]. Sonorants, in contrast to W, are expected to remain voiced. Yet devoicing, partial or complete, occurs, [r] being the most susceptible: кёр ‘measles’ > [kёр] . . . [kёр] . . . [кёр]. (It is convenient to write the ligature sign to indicate a consonant of normal duration over which some feature such as voicing changes its value.) Sonorants may devoice partially after a vowel before a final voiceless obstruent, as in céрп ‘sickle’ and céрп ‘Serb’ [рп].

**<b> Vʕ_#:** After a preceding voiceless obstruent at the end of a word, final sonorants are usually devoiced: redр ‘theater’ [нф]. After a previous voiced obstruent, the sonorant may acquire an anaptyctic vowel (рдль ‘rubble’ [бл]). Or, in less than standard speech, it may devoice, partially ([бл]) or completely ([бл]), and then pass on voicelessness to the preceding obstruent ([бл]), and (in dialects) even be identified as an obstruent: [эз] for жизнь ‘life’. In this context, the constraint of final devoicing attempts to move the onset of voicelessness back towards the margin of the previous vocalic domain, in the process potentially affecting a sonorant.

When W follows an obstruent at word end, both the W and the obstruent apparently devoice: хорэзы ‘banner’ [кф], трэз ‘sober’, рэз ‘frisky’, мноо ‘many sores’ [sf].

**<c> C.CV:** Internally between obstruents, W behaves as an obstruent. It participates in voicing assimilation: when W precedes a voiced obstruent, a previous obstruent remains voiced (ног аговай ‘under the widow’ [двл]) or becomes voiced (к аговэ ‘to the widow’ [двл]). Before a voiceless obstruent, W devoices and passes

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82 But according to Reформатский (1975), devoicing is not complete: though the W of мноо ‘many’ is devoiced, the preceding [з] can remain partially voiced ([зф]) or fully voiced ([зв]). At the same time, a [з] before a [зв] is said to devoice, in an abbreviation concocted by Reформатский: ЯЗФ. If so – if [зв], [зв], or [зв] is pronounced in аговь instead of [sf] – it would show simply that the behavior of W in this position is not completely that of an obstruent.
on voicelessness to a preceding obstruent, which remains voiceless (от второго ‘from the second’ [tft]) or becomes voiceless (ног вторым ‘under the second’ [tft]). In this context, W forms part of an extended obstruental interval that does not permit changes in voicing within the interval.

With sonorants between obstruents, it is possible to insert an anaptyctic vowel and make the sonorant syllabic, in which case the sonorant can accept boundaries of voicelessness. The interesting question – a question on which there is some disagreement – is what happens if the sonorant does not become syllabic. Four sub-contexts can be distinguished.

<\textcolor{red}{c1}> D-D: Between voiced obstruents, sonorants remain voiced, and may become syllabic: ног лжым ‘under false’ [d[ljz]].

<\textcolor{red}{c2}> T-D: After a voiceless and before a voiced obstruent, sonorants most probably leave the preceding voiceless obstruent untouched, whether or not they acquire an anaptyctic vowel: от лжым ‘from the ice-floe’ [l[t[ljz][dr]. There is, however, some uncertainty on this point, discussed below.

<\textcolor{red}{c3}> D-T: After a voiced obstruent before a voiceless one, a range of variants is possible. In, for example, мудрствовать: ‘act wise’, both obstruent and sonorant can maintain voice ([dr[st][v]], or the sonorant can devoice partially ([dr[st][v] or completely ([d[st][v]], or both can devoice, as is not uncommon in октябрьский [p[st]]. The sonorant may be lost. If the sonorant acquires an anaptyctic vowel, as is possible at preposition boundaries, the obstruent is unaffected: из Лхасы [z[lx].

<\textcolor{red}{c4}> T-T: Between voiceless obstruents, the sonorant is hemmed in by voicelessness on both sides without the aid of a supporting vowel. The sonorant can insert an anaptyctic vowel, as it does usually at a prefix boundary: от МХАТ ‘from MKhAT’ [l[t[ен[x][a[t]]. Or it can devoice, creating a single extended interval of voicelessness without internal shifts in voicing (Супра́льский [slšk]). Or it may be lost altogether.

The behavior of W and sonorants, especially in these environments, has generated something of a controversy about the nature of the voicing rules. It is Jakobson who is credited with first observing the unusual behavior of W in particular. In his original article in 1956, Jakobson characterized the voicing rule so that the final obstruent in a cluster was held wholly responsible. As-similation occurs between two obstruents, “regardless of whether one follows directly after the other or v comes between them.” On this view, W is a permeable membrane that transmits voicing from a following obstruent to a preceding one.

The subsequent tradition saw in Jakobson’s observation the possibility that \( W \) is to be classified as a sonorant. One hypothesis was that \( W \) is intrinsically a sonorant that becomes an obstruent in weak environments, when it merges with \([ f f]^{84}\). This solution maintains the assumption that active participation in voicing rules is limited exactly to the class of obstruents; true sonorants would have to be excluded on this account.

Another tack was to ask whether true sonorants behave the same as \( W \) in the vicinity of obstruents.\(^{85}\) Sheveroshkin, citing Пржевальский, states that “voicing of \( p-\) does not occur.” It can hardly be suggested that the sonorant \([ r] \) is syllabic.” He notes that, in из Лхасы, devoicing is possible, provided the \([ l] \) itself devoices: \([ s]x\). Zalizniak (1975) claims that sonorants generally do not transmit voicing, even if they remain non-syllabic. He states categorically that a voiceless obstruent does not become voiced across an intervening sonorant in assimilation to a voiced obstruent. Thus Tsvetaeva’s line застрахованность этих лобов ‘insurability of these foreheads’ could only be pronounced without assimilation as \([ x ]l b \), never with assimilation as \(*[ y ]l b \). If so, sonorants differ from \( W \) or obstruents, which would affect a preceding consonant in this combination: 3тих агова ‘of these widows’ \([ y n d ] \), 3тих гней ‘of these days’ \([ y d ] q \). Zalizniak mentions that if the following obstruent is voiceless, voicing assimilation – devoicing – could occur.

After the appearance of these studies, Jakobson responded by pushing the parallelism between \( W \) and sonorants. In his last summary discussion (1978/1985), he insisted that voicing assimilation is passed through sonorants, both when the obstruent after the sonorant is voiceless (из Мценска ‘from Mtsensk’ \([ s m c ] \)) and, remarkably, when the obstruent after the sonorant is voiced (\([ d l ] q \) in от лъдины). (Jakobson does not explicitly say whether the sonorant itself would have to be devoiced before a voiceless obstruent in order to communicate voicelessness; his transcriptions do not indicate that the intervening sonorant is devoiced.) To judge by his examples, sonorants behave like \( W \): they are also permeable membranes that transmit voicing. In extending this property of permeability from \( W \) to all sonorants, Jakobson makes a substantive claim that differs from those made in other sources: his к лжьым словам ‘to false words’ \([ g l ] z \) and от лжины \([ d l ] q \) seem incompatible with Sheveroshkin’s Пржевальский \([ p r z ] \) and Zalizniak’s 3тих лбов \([ x l b ] \). While Jakobson claims that there is complete parallelism in the context CRC and CWC regardless of whether the second obstruent is voiced or voiceless, other investigators point to the likelihood that there is an asymmetry in contexts: voicelessness may be passed on, but only if it is imposed on the

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\(^{84}\) The solution proposed by Andersen (1969) and subsequently reinvented in other places.

\(^{85}\) Es’kova 1971:245, Sheveroshkin 1971 (especially 282).
sonorant; voicing will not be passed through a sonorant to a preceding voiceless obstruent.\textsuperscript{86} Thus Jakobson’s factual observations differ from those of other commentators.\textsuperscript{87}

To understand voicing, it is useful to think of voicelessness as a feature with a temporal life. Voicing and voicelessness are not entirely symmetrical. Vocalic domains (vowels themselves, and vowels extended by sonorants) are intrinsically voiced.\textsuperscript{88} Boundaries of voicelessness are tolerated on the margins of vocalic domains and only there; consonantal intervals are either voiced or voiceless throughout with no internal change – no internal beginning of voicelessness \((\wedge[VD][T][\vee])\) and no internal end of voicelessness \((\wedge[V[T][DV]])\). Whether an interval is voiced or voiceless is determined by the last obstruent. Sonorants adjacent to vowels extend the vocalic domain and therefore tolerate adjacent voicelessness. But sonorants are not completely inert in voicing rules. Complications arise when a sonorant is next to a word boundary or is sandwiched between obstruents. In such contexts, the class of \(W\) behaves like an obstruent. Unambiguous sonorants – liquids and nasals – can do the same if the following environment imposes voicelessness, but they can also act as an autonomous domain and tolerate the cessation of voicelessness immediately preceding them, in the configuration \([T]RD\) (Пржевальский, от улыбки).

\subsection*{2.4 Phonological variation}

\subsubsection*{2.4.1 General}

Most – perhaps all – phonetic processes in Russian exhibit variation in their application. While each process deserves its own description, the processes are governed by analogous factors. The factors can be grouped into three classes: systemic factors (those motivated by intrinsic properties of the sounds involved);

\textsuperscript{86} The assumption that both voicelessness and voicing are passed through sonorants is critical for the theoretical studies of Halle and Vergnaud (1981) and Hayes (1984). Robblee and Burton 1997, examining the duration and amplitude of consonants in clusters in which a sonorant is between two obstruents, could find no instrumental confirmation that voicing is transmitted through sonorants. Kavitskaya (1999), a phonologist from Moscow, states that in her speech there is no assimilation in either context, из Муёнка 'from Mtsensk' от от льбы ‘from a liar’.

\textsuperscript{87} Jakobson claims (1968/1971[a]) that [f] do not assimilate in word-final position before an enclitic or word beginning with a voiced obstruent: thus граф же ‘the graf, though’ remains [f2], not [v2]. A half century earlier, before any controversy about the status of \(W\) had arisen, Cherrnyshev (1908:37) transcribed the phrase калиф был побеждён ‘the caliph was defeated’ as калий был, indicating voicing assimilation.

\textsuperscript{88} Though voiceless vowels do occur, the optimal environment being unstressed between voiceless obstruents at word end, e.g., шепот [šopot] (Panov 1967:131). Jones and Ward (1969:191–92) say that a voiceless vowel occurs “not infrequently,” in contexts adjacent to voiceless obstruents, such as выставка ‘exhibition’, череп ‘skull’, девушка ‘girl’ [Gen Pl].
factors of idiomaticity (those having to do with the morphological and lexical constraints on processes); and sociostylistic factors.

2.4.2 Phonological variation: idiomaticity

Variation depends in large measure on the extent to which the given combination of sounds is conventionally pronounced together. The more the two sounds that participate in the change are associated and linked in usage, the more likely they are to show the effects of phonetic interaction. This factor might be termed the criterion of IDIOMATICITY.

The most familiar aspect of idiomaticity is the hierarchy of morphological “boundaries.” By measuring the degree of cohesion vs. autonomy of constituent units, boundaries in effect measure syntagmatic idiomaticity. As is familiar, the weaker the boundary, the more likely it is that segments on either side of the boundary will interact. As a consequence, phonological processes apply most readily within morphemes, a little less regularly across boundaries of derivational suffixes, less across inflectional boundaries, and with decreasing willingness across prefix, preposition, and word boundaries.\(^8^9\) Most processes in Russian are sensitive to boundaries, though the cut-off points are different for different processes. Processes are summarized in Table 2.9, in which boundaries are listed from weak to strong along the horizontal axis, and processes are listed along the vertical axis from restricted to general. There is no reason to think that boundaries are becoming more prominent or less prominent over time; there is no single direction of development. Any rule can be sensitive to boundaries, whether it is expanding or receding. The generalization is that, as a rule changes—whether it expands or recedes—it will expand or be maintained better when weak rather than strong boundaries intervene between the sounds that interact.

The change whereby \([\text{c}\dot{\text{c}}]\) loses closure in clusters of \([\text{s}]\) plus \([\text{c}]/\), resulting in \([\text{s}\dot{\text{c}}]\), is regular at suffix boundaries, but less regular at prefixes and uncommon with prepositions. Palatalization assimilation has been disappearing. Its retrenchment has been following the hierarchy of boundaries. Assimilation, even for Avanesov, was unlikely between preposition and head word; it was somewhat more likely at prefix boundary, and regular only within morphemes. Palatalization of velars before \{\text{i e}\} applies within words and across inflectional boundaries (between stems and inflectional endings), \text{рукá} ‘hand’ \([\text{ká}]\), \text{ген sg} \text{рукá} \([\text{kí}]\), but normally does not cross preposition or word boundaries: \(\text{к имени} ‘to the name’ [kí]. The alternation of [i] and [i] is less restricted; it crosses prefixes \(\text{сыгра́ть} ‘play’ [sil]) and prepositions \(\text{от имени} ‘from the name’ [ti]) and, not

\(^{89}\) Shapiro 1967.
### Table 2.9 Boundaries and variation

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<thead>
<tr>
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<th>internal</th>
<th>derivation</th>
<th>inflection</th>
<th>prefix</th>
<th>preposition</th>
<th>enclitic</th>
<th>word</th>
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<tr>
<td>CČ &gt; ČČ (older)</td>
<td>✓</td>
<td>✓</td>
<td>±</td>
<td>±</td>
<td>?</td>
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<td>✓</td>
<td>✓</td>
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<td>±</td>
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✓ = process applies regularly, without restriction  
± = process applies less frequently, with some restrictions  
? = process applies exceptionally, with significant restrictions  
* = process does not apply  
n.a. = not applicable

infrequently, occurs between closely linked words within a phrase (инёл играть ‘went to play’ [iːl]). Assimilation of [ś z] to [ś] before [č] or to [ś z] before root [ś z] is regular across prefixes and prepositions and can occur between words in a phrase (мороз жёсткий ‘a harsh frost’ [zː]). Voicing assimilation easily crosses the boundary between words within phrases.

Variation is affected by other considerations that are, however, difficult to encode as boundaries. Processes apply to words to the extent that the conditions for a process are present in all forms of the paradigm of the word, inflectional and sometimes derivational. Palatalization assimilation is less likely if the trigger consonant is palatalized only in some forms. Palatalization is less likely in в битве ‘in battle’ (only [ty]), because [y] is palatalized only in certain cases, than in uniformly palatalized ветвь ‘branches’ (possible [ty]).

90 How regularly a process applies may depend on the relationship between a particular form and the rest of the morphological paradigm to which it belongs. The zero ending – a fecund environment for changes, since consonants are not supported by a following vowel – exhibits different effects depending on which “zero” it is. For example, geminates are often maintained in the genitive plural (Gen pl máčc [máːsː] ‘of the masses’), because the genitive plural is under paradigmatic pressure from other weighty members of the paradigm in which a vowel follows (Nom sg máčca [máːsː]). Geminates are often lost in the nominative singular, a more autonomous form which is less subject to pressure from forms with vowels (Nom sg конгрécc [s] ‘congress’, not *[sː]).

90 Krysin 1974:61 cites 13 percent for ветвь but an even paltrier 5 percent for в битве.
The paradigm of verbal forms has less cohesion among its forms than the declension of nouns. Palatalized labials are well maintained before the zero ending of the nominative singular of nouns, because in the rest of the paradigm the labial is before a vowel and is palatalized: palatalized [p] in 躬óγβα, nom sg. ‘dove’ is supported by [hɔ] in 躬óγβα, gen sg. Palatalized labials are beginning to be lost in the imperative in the substandard register: приготóвьті ‘prepare!’ standard [f], substandard [l], even despite the fact that there are other forms with palatalized labials in prevocalic position (inf приготóвить, 2sg приготóвить). In the masculine singular of the past tense of verbs, [l] was lost after fricatives: *neslъ, нёс, *velъ, вёз. Analogous phonological combinations have been maintained in nouns (sometimes by insertion of a vowel): смýсл ‘sense’, ýзл ‘knot’ because related forms have following vowels (gen sg смýсли, gen sg ýзла). Again, the zero form of nouns underwent less extreme change than the zero form in verbs because this context in nouns is better integrated in a paradigm of forms.

In many of these processes the target (the segment that is potentially affected) is situated before a boundary in either case; the context is syntactically the same. What is different is the paradigmatic context: the allegiance of the particular word form to other word forms. A process is retarded when a word form with the proper phonological context is related to other word forms lacking the phonological context for the process.

The principle at work here is the paradigmatic analog of the syntagmatic constraint of boundaries. A word or morpheme will try to remain uniform and not change its shape, even down to the level of the allophonic shape of the segments of which it is composed. To the extent that two otherwise independent units are conventionally pronounced together, their autonomy is overridden. On both the paradigmatic and syntagmatic axes, rules apply to the extent that the proper phonological context is regular, conventional, idiomatic.

2.4.3 Phonological variation: systemic factors

Speech results from various articulatory gestures, scripted in time. Though gestures often line up to define segments (for example, [m] involves almost simultaneous labial closure, raising of the tongue, and opening of the velum), each articulatory gesture has its own profile in time. Assimilation is just the spread of a gesture across segments.

Speech is evidently composed of alternations of vocalic domains and consonantal interludes. Consonantal interludes require sanctioning from the vocalic domain. As a consonant cluster grows in complexity, the presence of additional consonants reduces the duration available for other adjacent consonants in the same interlude. As noted in the discussion of vowel duration, vowels are shorter before multiple consonants than before single consonants, and shorter before
single obstruents than before no obstruent. These facts suggest that consonants have a negative valence – they remove duration from the vocalic interval. Similarly, voicelessness and stop articulations (both involving energetic and precipitous gestures) remove duration.\textsuperscript{91}

Vowels vary in duration as a function of stress.\textsuperscript{92} Stress also affects nearby consonants. The general principle is that stress sanctions extra length in the vowels themselves and also extra duration in adjacent consonants, both before and after the vowel.

The variation of $[i \sim i]$ sometimes crosses between words, when one word ends in a hard consonant and the next begins with $\{i\}$. Matushevich says explicitly that the pronunciation of $[i]$, which involves assimilation of the vowel to the hard consonant of the preceding word, is more common when the vowel is unstressed ($\text{угёт Ири́на} ‘there goes Irina’ [ti]) than when the vowel is stressed ($\text{угёт Ира} ‘there goes Ira’ [ti] $\sim$ [ti])

Normally in Russian, consonants are palatalized before $\{e\}$, though borrowings allow non-palatalized consonants. The consonant is able to avoid palatalization before $\{e\}$ in borrowings more readily when the vowel is stressed than when it is unstressed.\textsuperscript{93} The extra duration of stressed vowels allows more distinctions in the transitions between consonants and vowels, and in particular allows either a palatalizing transition (with raised F\textsubscript{2}) or a non-palatalizing transition (with low F\textsubscript{2}); unstressed vowels, with greater cohesion between the vowel and consonant, as a rule allow only the palatalizing transition.

The glide $[j]$ is said to have two allophones, a more consonantal $[j]$ as opposed to a less consonantal $[i]$. The more consonantal $[j]$ occurs before stressed vowels, because the glide has more time for elaboration before stressed vowels than before unstressed. Also, $[j]$ tends to be absorbed before the homorganic vowel $[i]$. It is less likely to be absorbed before a stressed $[i]$, because a stressed vowel allows more time for an elaborate transition: stressed $\text{свини́й gen sg ‘pig’ } [\text{nij]}i ~ [\text{nii}]$ but unstressed $\text{кря́нду́ ген sg ‘liar’ } [\text{nii}] ~ [\text{nii}]$. Vowels that are stressed permit more elaborated transitions between consonant and vowel.

Stress also affects consonants in post-vocalic position, especially when they are not also prevocalic. Gemination – maintaining a single articulatory configuration over an extended time – is permissible to the extent that extra duration is sanctioned by adjacent vowels. Stressed vowels sanction more duration

\textsuperscript{91} Browman and Goldstein (1986[a]) examined duration in $C^*VC$ complexes ($C^* =$ a singleton, doubleton, or three-consonant cluster) in English and documented that there is a constant duration measured from the temporal center of the $C^*$ through the vowel to the onset of the post-vocalic singleton consonant. If the interval from the temporal center of the cluster to the end of the vowel yields a stable value, then as the consonant cluster increases in complexity and duration, it must do so at the expense of the vowel.

\textsuperscript{92} Bondarko, Verbitskaia, and Zinder 1960.

\textsuperscript{93} Glovinskaia 1976.
(rightward) in the following consonantal interlude than do unstressed vowels, and hence произнесённый ‘pronounced’ is more likely to have a geminate [nn] than оторванный ‘torn off’. Palatalized labials, endangered when no vowel follows, are better maintained after stressed vowels: сёмь ‘seven’ [sën̠] but восьмь ‘eight’ [võ̞šım̠]. In palatalization assimilation, palatalization is better preserved after a stressed vowel than otherwise, hence better preserved in нóгле ‘alongside of’, in Avanesov’s norm [põ̞dl] ~ [põ̞dl], than in бодлый ‘prone to butting’, only [bəldīvı̞jı̞].

Thus, stressed vowels sanction greater duration both in prevocalic consonants and in post-vocalic consonants. Position preceding a vowel gets more duration than position after.

It might appear that these effects could be described by appealing to syllables. There is more than one algorithm for determining syllable structure. The major point of difference concerns what to do with multiple consonants between vowels, which may be assigned all to the following vowel or split between the preceding and the following syllable according to some principle. Avanesov 1956, for example, allows closed syllables only when a sonorant precedes an obstruent: compare closed кárta [r.t] ‘map’, донскóй [n.sk] ‘of the Don’, but open лóбzik ‘fret-saw’ [.bʒ], когдá [.g dólares ‘when’, отгáть [.dd] ‘gave away’, спóлывáй [.n] ‘drowsy’, глиннá [.nn] ‘long’ [fem sg]. This approach has the result of minimizing closed syllables. Other approaches, not specific to Russian, might be more tolerant of internal closed syllables of the type VCi CjV.

Whatever algorithm is invoked, syllable structure does not account for the variation described above. Palatalized labials in the imperative are more likely to be lost in the plural, when a consonant follows (éконóмьте), than in the singular, when no consonant follows (éконóмь). The palatalized labial (here [m]) would be in syllable-coda position in both instances according to any algorithm of syllable structure. If the behavior of sounds were based strictly on the position in syllable structure, [m] should behave the same in both forms; the presence of another obstruent after the syllable-final [m] should be irrelevant.

Palatalized consonants cause a preceding vowel to become more front; they do so whether they belong to the following syllable (gen sg góря ‘grief’ [gõ̞rja]) or form the coda of the syllable (e.g., горько ‘bitterly’ [gõ̞r.kə]). Similarly, consonants are labialized in the vicinity of labialized vowels, and this process does not respect syllable boundaries. Nor does voicing assimilation. These processes, then, pay no attention to syllable boundaries.

Finally, we might consider the algorithm for syllable structure of L. V. Shcherba. According to Shcherba, a syllable coda is possible only after a stressed

vowel, as in свадьба [svád.bə] ‘wedding’ but not гоньба [gon′ybə] ‘pursuit’. Shcherba’s algorithm, because it refers to stress, might seem relevant to the processes discussed above. Shcherba’s algorithm leads to an odd result with respect to assimilations that affect post-vocalic consonants. In palatalization assimilation, for example, if syllable structure were assigned according to Shcherba’s principle, one would expect assimilation to be less regular after stressed vowels, because the post-vocalic consonant would be assigned to the same syllable as the vowel, and not to the following syllable that contains the consonant that is the source of palatalization. Thus one would expect less palatalization in по́ле [pód.lə] ‘alongside’ than in бо́лывий [bol′IVIj] ‘prone to butting’. In fact, Avanesov observed the opposite. Also, Shcherba’s algorithm has nothing to say about consonants in the position before vowels, since preceding consonants would be treated as syllable onsets regardless of whether that vowel is stressed. As noted, stress allows more elaboration in consonants preceding vowels.

Thus models that rely on syllable structure do not describe the variation that relates to the stress of vowels. We might attempt to describe these facts directly in a temporal model of phonetic interaction. Speech is an alternation of vocalic and consonantal domains. Consonants can be understood as a kind of negative space between the positive articulatory intervals of vowels. Vowels have positive valence proportional to their own duration (at least insofar as duration is a function of stress). The longer the vowel, the more duration is granted to the adjacent consonantal interludes. Consonantal domains are not self-sufficient; they require the support of vocalic domains; they consume duration supplied by vowels. Asymmetrically, consonants get more support from following than from preceding vowels.

Consonants have negative valence: they limit the duration available in the context (in adjacent, especially preceding, vowels and in adjacent consonants in either direction). The longer the consonantal interlude, the less duration is available for neighboring vowels. The systemic (phonological) factors that govern variable processes can be formulated in terms of durational valence.

Sonorants seem neutral or, possibly, variable. In prevocalic position, sonorants behave as an extension of the vocalic domain: in \( C_i R \hat{V}(C_j V) \) contexts, the initial stressed vowel is nearly as long as the corresponding first vowel in \( C_i \hat{V}(C_j V) \) contexts. Further, sonorants in the position before vowels have the same behavior as vowels with respect to voicing – they tolerate the cessation of voicelessness on their margins. In post-vocalic position, sonorants do not shorten a preceding vowel and they permit a following [sː] more elaboration (обма́нишь [obmániʃɪ]) than an obstruent in the same position would (гардере́бщик [gardeřeboθiʃɪk]). Sonorants after vowels, then, extend the vocalic domain.
The overall view is that vowels have duration, especially in proportion to stress, and offer duration to surrounding consonants. Consonants consume derivation. Sonorants are more or less neutral; they extend the domain of vowels.

2.4.4 Phonological variation: phonostylistics and Old Muscovite pronunciation

For most processes in which there is variation, variants are correlated with different stylistic values: characteristically one variant will be evaluated as conservative and explicit, the other as more casual; variation may be correlated with tempo as well. Moreover, as the sociolinguistic investigations of the 1960s documented repeatedly, the conservative variant is the variant preferred (in statistical terms) by the higher social classes, while the innovative, casual variant is that used (by a statistical margin) by workers.

There is a collection of unconnected phonological traits that have been identified in Russian phonological literature as “Old Muscovite” features, features dating back to the residual population of Moscow before the October Revolution of 1917. For the most part, they have been overridden by the national norms of twentieth-century Russian.95

Some Old Muscovite features are the following. In vocalism, a more open vowel, conventionally transcribed [α], is used for non-high vowels after hard consonants in first pretonic position rather than [A]: столи [stoli]. Velars in the nominative singular masculine of adjectives remained hard, and after them atonic [a] is used (твежкий ‘difficult’ [ka]; in this instance the Old Muscovite pronunciation is more original; the national norm of [k] in such adjectives is a spelling pronunciation. The imperfectivizing suffix begins with [a] (again, without palatalizing a velar) rather than [i]. Pervasive use of [i] for orthographic «а» after «ш» and «ж» is Old Muscovite.

In consonantism, maintenance of [z] in грёжки ‘yeast’ and the like is Old Muscovite. In Old Muscovite pronunciation, a palatalized [γ] used to occur in the position after {e} before a following consonant. This ancient pronunciation (it derives from a progressive palatalization of the r in *C_PrC sequences when Cj was not a hard dental) occurred in words such as вёры [ygr] ‘top’, первый [pěrvij] ‘first’. Old Muscovite had prevalent spirantization of stops in clusters: in lexical items нёты ‘nails’ OM [xt], кто ‘who’ OM [xt], коега ‘when’ OM [γd], and even in combinations of prefixes and lexemes, κ го́мы OM [γd] ‘to the building’. Long ago, [c] lost closure before [n] and was reinterpreted as hard [s]. This [sn] is still maintained in certain high-frequency lexical items such as конёчно ‘of course’ and скучно ‘boring’, but in general this pronunciation is receding in favor of the new national norm, [cн]. Thus, older speakers have [sn] in буличная.

'bakery', пра́чечная 'laundry', while younger speakers use [צn]. (Some words have consistent [צn]; кирпичный 'brick'.) Maintaining [sn] is a feature of Old Muscovite pronunciation, as speakers are aware. Lidiia Chukovskaia, referring to the word подсве́чники 'candlesticks', exclaimed that Anna Akhmatova 'so magnificently pronounces «подсве́чники» [= [šn], AT]. I adore that venerable Russian у, which has not been replaced on her lips by modern ч.'"96

2.5 Morpholexical alternations

2.5.1 Preliminaries

Sounds occur only in combination with other sounds in conventionalized, lexical combinations. Related forms of a word or related words share most of the same sounds, but not all. It is then possible to example the correspondences of sounds from one word or word form to another, which can be termed morpholexical (or "morphophonemic") alternations.

2.5.2 Consonant grades

Aside from automatic alternations involving voicing, consonant alternations go back to the palatalizations of Slavic and East Slavic. Consonant grades – the different forms consonants can take – are summarized in Table 2.10. We can define the form of the consonants not affected by any alternation (specifically, by palatalization) as the basic grade, or $C^0$.

There are two major patterns of alternation. Firstly, an alternation of $C^0$ with $C'$, reflecting the historical first palatalization of velars before *j and iotation of dentals and labials, occurs in verbs of the type \{CVC-a : CVC-|e|\}, among which $C^0$ occurs in the past-infinitive stem, $C'$ in the present stem: пишать ‘write’, 1SG пишу́, 2SG пи́шешь и плáкать ‘cry’, 1SG плáчу, 2SG плáчешь. Secondly, $C^0$ alternates with $C$, which reflects first palatalization of velars and "bare" palatalization of other consonants before front vowels, within the "middle" forms of the present tense of obstruent stems: compare [s] in 1SG несё́ 'I carry' vs. [ʃ] in 2SG несё́шь or [k] in 1SG не́к 'I bake' vs. [ɕ] in 2SG печё́шь. In 1-Conjugation verbs, $C'$ in the first singular and past passive participle alternates with $C'$ elsewhere: 1SG молоч́ь 'I thresh', passive participle -мололёк versus молоть́ть, 2SG молótишь. It could be noted that $C'$ and $C'$ have the same values for velars. Clusters of fricative and stop (= ST) have developed the unique sounds [ʃi; ŋ] (or [zj]; §2.3.7): сру́стить ‘be sad’, 1SG сру́шу, полоскáть ‘rinse’, 1SG поло́шу, éзгить ‘ride’, 1SG éзжу.

$C'$ has been subject to changes that have led to the development of secondary patterns. Many derivational suffixes that now begin with consonants originally

96 Lidiia Chukovskaia, Zapiski ob Anne Akhmatowej, vol. II (Moscow, 1997), 437.
Table 2.10 Consonant grades

<table>
<thead>
<tr>
<th>Consonant grades</th>
</tr>
</thead>
<tbody>
<tr>
<td>$C^0$</td>
</tr>
<tr>
<td>$P^0 = { p b f v m }$</td>
</tr>
<tr>
<td>$T^0 = { t d s z }$</td>
</tr>
<tr>
<td>$K^0 = { k g x }$</td>
</tr>
<tr>
<td>$R^0 = { n r l }$</td>
</tr>
<tr>
<td>$ST = { st sk zd }$</td>
</tr>
</tbody>
</table>

began with $^*b$. As a front vowel, $^*b$ conditioned palatalization (hence $C'$) in the consonant preceding the suffix before it disappeared, leaving behind a consonant cluster. Palatalization has been restricted in consonants in the position before other consonants, a development which has reduced the scope of $C'$ and led to an alternative pattern, labeled the $C^{\text{iv}}$ grade in Table 2.10. Thus before adjectival {-n-} the consonants are not palatalized in рёбный ‘fish’, местный ‘local’, убыточный ‘unprofitable’, дверной ‘pertaining to a door’. (The exception is [], which is preserved: отдельный ‘separate’.) As a variation on $C^{\text{iv}}$, labeled $C^{\text{v}}$ in Table 2.10, palatalization can be maintained in dentals before labials and velars while being lost in dentals before velars and lost in labials: конька (ном sg конёк ‘hobbyhorse’), дим яблонька ‘apple-tree’, ходьба ‘walking’, резьба ‘carving’, гоньба ‘pursuit’. In another minor variation on $C'$ (very restricted, and so not recorded in Table 2.10), the suffix {-sk-,} which conditioned $C'$ in the consonant preceding the suffix, allows the dental sonorants over and above [] to be palatalized: июньский ‘of June’, октябрьский ‘of October’, as well as португальский ‘Portuguese’. This minor pattern would be: $\{ P^0, T^0, \{ c s s z \}, R \}$.

These variations on $C'$ involve tinkering with how well palatalization is preserved before suffixes beginning with consonants. The original $C'$ grade has also developed in another direction. The $C'$ grade of velars, historically palatal consonants, has been yielding to palatalized velars by analogy to palatalized dentals and labials in certain contexts: note substandard дее береги ‘protecting’, standard 2sg ткешь ‘you weave’, substandard жешь ‘you burn’, пекешь ‘you bake’, analogous to неся, несёшь, гребёшь, гребёшь. This variation on $C'$, in which $\{ Ch \}$ replaces $\{ Č \}$ while $C'$ is maintained for dentals and labials, is the pattern used in adjectives formed productively with the suffixes {-ičesk-} and {-ičn-}. These suffixes evoke palatalized velars rather than palatals: психический ‘psychological’, зоологический ‘zoological’, педагогический ‘pedagogical’, анархический ‘anarchic’.

In addition to $C'$ as stated, there is a special variant with the Church Slavonic reflexes of *tj and *dj, a pattern that is not recorded in Table 2.10. The third row would then be $\{ 3: 2d \}$ (or $\{ 3: 2d \}$): возвратить/возвращать ‘return’, побегать/побеждать ‘vanish’. The statement of alternations in
Table 2.10 makes no provision for the reflexes of the Slavic second and third palatalization of velars: if the alternation of consonants that derives from these changes had been maintained, there would be a synchronic series \{c z (z) s (s)\} corresponding to \{k g x\}, but the possible alternations resulting from this palatalization have been eliminated.

2.5.3 Types of softness

Much in Russian phonology depends on whether consonants are palatalized or not. A notion of softness (to use the informal term) is relevant at different levels. It may be useful to review the role of softness on different levels.

The concept in the first place is phonetic. Phonetically soft consonants are those with a certain articulatory configuration. That configuration influences adjacent vowels by co-articulation in the same way in different consonants, and in this effect all phonetically soft consonants are equal. By this criterion \[\text{T}, \text{P}, \text{R}\] and \[\text{c} \text{c}, \text{s} \text{c}, \text{z} \text{c}\] are phonetically soft, and so are \[\text{c}, \text{s}, \text{z}, \text{j}\]. In contrast, ordinary \[\text{T}, \text{P}, \text{K}\], and \[\text{c} \text{c}, \text{s} \text{c}, \text{z} \text{c}\] are hard.

The pairs \[\text{T} vs. \text{P}\] and \[\text{P} vs. \text{P}\] are capable of occurring in the same syntagmatic environment and are capable of distinguishing words. In this respect, \[\text{T}\] and \[\text{P}\] are phonemically soft. The pair \[\text{K} vs. \text{K}\] is moving in this direction. Moreover, exactly these sets of consonants are paired in the sense that the hard sounds are replaced by the soft ones before the \{-e\} of the locative singular of Declension \(<\text{Ia}>\) and Declension \(<\text{II}>\) (and the dative singular of Declension \(<\text{II}>\)):

\[\text{жене ‘to the wife’ [në], o человеке [k∫]}\].

The details of stressed vocalism depend on the phonetic softness of consonants. Unstressed vocalism is also sensitive to phonetic softness, but the picture is more complex. In pretonic position in roots, \[c\] behaves as an ordinary hard consonant with respect to \{a\} (\text{GEN SG yarą [c∫]}). After the unpaired hard consonants \[s z\], there is variation between the inherited \[t\] (жать [z] ‘pity’) and the innovative \[\Lambda\] (жар ‘heat’, жарый [z∫]). The innovative \[\Lambda\] is what one expects after a hard consonant. The high quality of \[t\] rather than the lower \[\Lambda\] is merely a back version of \[i\]. By virtue of eliciting this high variant \[t\], \[s z\] are morphophonemically “soft.”

The different criteria for defining softness are summarized in Table 2.11.

Softness is additionally relevant in two other places. First, most nouns of Declension \(<\text{Ia}>\) use one of two overt endings in the genitive plural. Stems ending in paired hard consonants, including velars, take \{-ov\}, while stems ending in paired soft consonants take \{-ej\}. On this basis, one might define any stem-final consonant that takes \{-ov\} as morphologically hard, and any that takes \{-ej\} as morphologically soft. The phonemically unpaired consonants \[c, s, z\]
Table 2.11 Types of “softness”

<table>
<thead>
<tr>
<th>phonetic</th>
<th>independent phonetic</th>
<th>morphophonemic morphophonemic morphophonemic morphophonemic</th>
<th>morphophonemic morphophonemic morphophonemic morphophonemic</th>
</tr>
</thead>
<tbody>
<tr>
<td>softness</td>
<td>softness</td>
<td>softness {a} &gt; [i]</td>
<td>GEN PL</td>
</tr>
<tr>
<td>[ʃ]</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>[p]</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>[k]</td>
<td>✓</td>
<td>±</td>
<td>n.a.</td>
</tr>
<tr>
<td>[j]</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>[c]</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>[ʃ ː z:]</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>[s ː z]</td>
<td>✓</td>
<td>±</td>
<td>n.a.</td>
</tr>
</tbody>
</table>

✓ = counts as soft  
* = fails to count as soft  
n.a. = not applicable, indeterminate  
± = partial, to some extent soft

take {-ej}, and in this respect are morphologically soft. Curiously, [j] and [c] take {-ov}, making them by this criterion morphologically hard.97

In certain word forms, vowels alternate with the absence of a vowel. The overt vowel can take different forms under stress. One variant (labeled {θ ~ C{é ~ i}}): §2.5.5) occurs consistently before following paired palatalized consonants: земёнь ‘land [GEN PL]’, ремёнь ‘belt’. It also occurs before [j] {саинёй ‘pigs [GEN PL]’, ручёй ‘brook’ and |c| (отёй ‘father’, конёй ‘end’), which according to this test would be evaluated as morphophonemically soft. (The alternation of vowels does not occur before [ʃ ː z]: s ː z).98

Thus, each process defines a set of consonants as soft, but the definitions are not entirely consistent for different processes. A consonant may behave as morphophonemically soft, even if it is not phonetically or phonemically soft in synchronic terms.

2.5.4 Vowel grades

Alternations in vowels date from various time periods. The oldest derive from Slavic reflexes of Indo-European ablaut relations. Only residual traces remain of the qualitative ablaut of *e and *o (взят ‘lead<dt>’, возить ‘lead<1d>’,

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97 The motivation is presumably historical: {-ej} derives from the original i-stem declension (from *-oij). Some words in the i-stem declension ended in [ʃ], [ʃ ː z], and so {-ej} was understood to occur after these consonants. As the masculines that belonged to the i-stem declension moved over to Declension<1a>, they brought the ending {-ej} with them.

98 Hard labials have both: cygêb (newer cýgeb) but nažm.
There was another type of ablaut, between full grade and reduced grade, and traces of this **reductive ablaut** (in Slavic, *e ~ *i > *e ~ *i; *a ~ *a > *o ~ *a) remain in the allomorphy of verbs such as 1sg беру (full grade) ~ inf брать ‘take’ (reduced grade). Somewhat more productive is the reflex of **quantitative ablaut** in the formation of secondary imperfectives. The original alternation of *a ~ *a > *o ~ *a is still visible in, for example, оттолкнуть/отталкивать ‘push away’ (in which it must be an extension, since the o is not original). The alternations in the stems of пообратать/попробовать ‘pick up’, вызвать/вызвать ‘call out’ also go back to quantitative Ablaut of the reduced grade (*i ~ *i > *o ~ *i ~ *o, or without (*i ~ *i ~ *o, ‘call forth’ {ziv-aj}). Such residues of earlier ablaut can be treated as part of the lexical allomorphy of verbs.

### 2.5.5 Morphophonemic {o}

Hundreds of years ago, *e changed to o under certain conditions – under stress before hard consonants (nom pl *sela > села ‘villages’, nom pl *ženy > жёны ‘wives’) and in final open position (*pitjé > питъё ‘drinking’), while *e remained unchanged under stress before a palatalized consonant (*selоskйбъ > сельский ‘village’s’). Unstressed, this *e did not change to *o, and the reflex of unstressed *e is realized as [i] after soft consonants (*selо > село [šuló]) and as [i] after hardened palatalts (*žená > женá [zuná]).

If the original pattern had been preserved without change, it would have resulted in a synchronic pattern of {čoC⁰ ~ ČeČ ~ Či} (or {šoČoC⁰ ~ ŠoČČ ~ ši} after hardened palatals Š⁰); in simplified terms, the pattern would be {oČo ~ eČ ~ i}. The original distribution has been eroded in various ways. Original *e did not change to o and then subsequently merged with *e, leaving many tokens of [e] before hard consonants that derive from *e: тело ‘body’, место ‘place’, целый ‘whole’. In addition, *e was preserved as [e] before formerly soft consonants that have hardened before other consonants: хёнский ‘female’, учёный ‘teaching’. As a result, we now find [e] as well as [ô] before hard consonants.

The earlier pattern {oČo ~ eČ ~ i} is still preserved in some derivational nests, but there has been a tendency, gradual and long-term, to generalize [ô] at the expense of [e]. Thus решётчатый ‘latticed’ can now be решётчатый ‘latticed’, in deference to nom pl решёра ‘grates, lattice’. Звёздчатый ‘starry’ has already adopted [o] from звёзды, itself derived by analogy to the alternation of {oČo ~ eČ ~ i} in женá ‘woman’, nom pl жёны.

Within nominal paradigms, alternation has been eliminated (except for nom sg чёрт, nom pl чёрти ‘devil’). In particular, the [ô] does not revert to [e] before
the palatalized consonants of the (dative-)locative singular (о мёге 'about honey', о клёне 'about the maple') or before palatalized velars (щёки 'cheeks').

Matters are complex in the root vocalism of verbs; it depends on the class of verb. There are two classes of verbs in which the alternation \( \{ 6C^o \sim eC \sim i \} \) is still visible.

One group is obstruent-stem verbs. Stressed \([\delta]\) is found in the masculine past (l-participle), e.g., *пекл> нёк 'he baked', *нєл> нєс 'he carried'. This is one of the few forms of such verbs in which the root vowel is actually stressed. The past active participle at one time had \([\dot{e}]\), but now has \([\delta]\), e.g., принёсший > принёсший 'having brought'. In velar-stem verbs, the infinitive is also stressed and the vocalism is \([\dot{e}]\) (e.g., нёчъ), while \([\delta]\) appears in the masculine singular (нёк), implying \( \{ 6C^o _{<MSC\ SG\ PST>} \sim eC_{<INF>} \sim i_{<ELSEWHERE>} \} \) for velar-stem verbs. This pattern has been imposed on verbs with etymological \(*\varepsilon\), which otherwise should have become \([\dot{e}]\): увлёк 'he carried away', пренёсёш 'he neglected'. Recently \( c\dot{e}k \) has become possible as the masculine past of \( c\dot{e} \) 'hack', in a root with etymological \(*\varepsilon\). To judge by warnings in normative manuals, a pronunciation with \([\delta]\) has long been an alternate pronunciation for \( запрёс 'he harnessed' \).

The one other class of verbs in which the alternation \( \{ 6C^o \sim eC \sim i \} \) occurs is the type \( \{ CV^o,\varepsilon : CV^\dot{e} \} \). In these verbs, \([l]\) occurs in the infinitive, past, and first-singular present; \([\dot{e}]\) occurs in the other forms of the present; and \([\delta]\) is found in the derived imperfective and passive participle, as illustrated in Table 2.12. Other verb conjugations do not have a three-way alternation in vocalism. Verbs with fixed stress on the stem have \([\dot{e}]\) or \([\delta]\) but no alternation: -гёрнутъ 'jerk', -гёренъ, -гёргиватъ, -гёрнутъ; -гёлать 'do', -гёлаешъ, -гёлыватъ, -гёланъ. Verbs with retracted stress in the imperfective and passive participle have an alternation of unstressed \([l]\) with either \([\delta]\) (-метнуть 'cast', -метнёшъ, -мётыватъ, -мётнутъ) or \([\dot{e}]\) (-слёйтъ 'follow', -слёйшъ, -слёживатъ, -слёженъ), but again there is no three-way alternation. The upshot is that the original pattern \( \{ 6C^o \sim eC \sim i \} \) that arose out of the change of \(*e > o / _C^o \) is virtually moribund; it has remained only in quite specific lexical groups.

<table>
<thead>
<tr>
<th>Verb</th>
<th>[l]</th>
<th>Inf</th>
<th>1SG</th>
<th>[e]</th>
<th>Prs</th>
<th>[o]</th>
<th>1r, PsV</th>
</tr>
</thead>
<tbody>
<tr>
<td>hew</td>
<td>-тесать</td>
<td>-тёшешь</td>
<td>-тёсывать, -тёсан</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>tousle</td>
<td>-трепать</td>
<td>-трёплешь</td>
<td>-трёпывать, -трёпан</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>scratch</td>
<td>-чесать</td>
<td>-чёшешь</td>
<td>-чёсывать, -чёсан</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>lash</td>
<td>-хлестать</td>
<td>-хлёщешь</td>
<td>-хлёстывать, -хлёстан</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
2.5.6 Null- and full-grade vocalism

In certain words there is an alternation at the end of the stem between the presence of a vowel and the absence of a vowel: NOM SG мóк, GEN SG мæk ‘moss’; GEN PL нóжек, NOM SG DIM нóжка ‘foot’; NOM SG бóбр, GEN SG бóбр ‘beaver’. The absence of vowel, or null grade, is found when a vowel follows, as happens in most inflectional forms. The overt vowel, or full grade, occurs when no inflectional vowel follows, when the ending is “zero.”

These “fleeting” vowels come from two historical sources. Some stems ended in jer vowels, whether in the root (*мæк) or a derivational suffix (the adjectival suffix *-н-, the diminutive suffix *-к-/*-ък-). Whenever a vowel other than a jer followed the stem, as happened in most inflectional endings, the stem jer was “weak” and was lost. It was “strong,” and kept, only if the following inflectional ending contained a weak jer. Such weak jers were the source of zero endings in declension that now elicit the full grade in the root. This happens in the declension of nouns in the nominative singular of Declension <ІА> and Declension <ІІА> (there also in the instrumental) and the genitive plural of Declension <ІВ> and Declension <ІІ>.

This source of vowel alternations was supplemented by a tendency to break up clusters of obstruent and sonorant at the end of words by inserting an anaptyctic vowel. Such clusters arose in the same morphological environments as those in which jers were vocalized. For this reason there are two historical sources of alternation between what might be termed null grade (no vowel) and full grade in the same morphological contexts. The synchronic reflexes of these two sources are similar and can be discussed together with a little caution. 99

There are three patterns. First, the overt vowel, if stressed, is realized as [ó], not under stress as [ə]; the preceding consonant is hard, or Cо. This pattern occurs in specific lexical items (гнó ‘bottom’, GEN PL гdni) and with the diminutive suffix (плитка ‘plate’, GEN PL плиток) and specifically after a preceding velar (огóнь ‘fire’). (Examples are given in Table 2.13.) In notation, this pattern of vowels is \{\emptyset \sim Cо\{ó \simə\}\} – an alternation of \{\emptyset\} with full grade, which is then either stressed [ó] or unstressed [ə].

Secondly, the preceding consonant is C’ – either paired soft or a palatal. The vowel under stress is [ó], [ì] in unstressed position. In notation: \{\emptyset \sim C’\{ó \sim i\}\}. It occurs before velars (конёк ‘hobbyhorse’; серёгá ‘earring’, GEN PL серё́е) and hard dentals (весёлó ‘oar’, GEN PL вёсél, NOM SG бобёр).

99 To describe alternations between full and null grades synchronically, there are three options: deletion of an underlying mid vowel in certain specified contexts; insertion of a vowel in clusters in specified contexts; or a static (non-derivational) relation of alternate lexical forms, some with the vowel (full grade) and some without (null grade). The last approach is assumed here.
Table 2.13 Vowel-zero variants (genitive plural, nominative singular)

<table>
<thead>
<tr>
<th></th>
<th>stressed</th>
<th>unstressed</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>lexical</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NOM SG (GEN SG)</td>
<td>[o]</td>
<td>«о»</td>
</tr>
<tr>
<td>NOM SG (GEN SG)</td>
<td>кабард кабард, злó злó, днó днó,</td>
<td>мóх мóх, лóб лóб, лóм лóм, лóп лóп, лóп лóп</td>
</tr>
<tr>
<td></td>
<td>лóм лóм, лóм лóм, лóм лóм, лóм лóм,</td>
<td></td>
</tr>
<tr>
<td></td>
<td>лóп лóп, лóп лóп, лóп лóп, лóп лóп,</td>
<td></td>
</tr>
<tr>
<td></td>
<td>лóп лóп, лóп лóп, лóп лóп, лóп лóп,</td>
<td></td>
</tr>
<tr>
<td>suffixal {-k}</td>
<td>(NOM SG) GEN PL</td>
<td>[о]</td>
</tr>
<tr>
<td>NOM SG (GEN SG)</td>
<td>кусóк кускá, гребешóк гребешкá листóк листкá</td>
<td>кусок кусок, гребешок гребешок листок листок</td>
</tr>
<tr>
<td></td>
<td>жучóк жучкá</td>
<td>жучок жучок</td>
</tr>
<tr>
<td>NOM SG (GEN PL)</td>
<td>[о]</td>
<td>«о»</td>
</tr>
<tr>
<td>NOM SG (GEN SG)</td>
<td>огóнь огня, буго́р бугрá</td>
<td>огонь огонь, бугор бугор</td>
</tr>
<tr>
<td>/C-{Tº Kº}/</td>
<td>(NOM SG) GEN PL</td>
<td>[о]</td>
</tr>
<tr>
<td>NOM SG (GEN SG)</td>
<td>шестéрнá шестéрëн, сестóр сестёр</td>
<td>шестерня шестерня, сестра сестра</td>
</tr>
<tr>
<td></td>
<td>котёл котлá, нёс нcé, лéн лéн, бобёр бобрá, рóжóн рóжна, нóжóк нóжкá, конёк конькá, пузýрëк пузýрькá but хребéт хребëт</td>
<td>котёл котел, нос нос, лень лень, бобр бобр, рогожа рогожа, ножка ножка, конек конек, пузырек пузырька, нох, хребет хребет</td>
</tr>
</tbody>
</table>

Notes: If unstressed, vowels are always deleted.
Table 2.13 (cont).

<table>
<thead>
<tr>
<th>stressed</th>
<th>unstressed</th>
</tr>
</thead>
<tbody>
<tr>
<td>šo T° K°</td>
<td>(NOM SG) GEN PL</td>
</tr>
<tr>
<td>/C P°</td>
<td>(NOM SG) GEN PL</td>
</tr>
<tr>
<td>/C Ç</td>
<td>NOM SG (GEN SG)</td>
</tr>
<tr>
<td>/C c</td>
<td>(NOM SG) GEN PL</td>
</tr>
<tr>
<td>/C j</td>
<td>(NOM SG) GEN PL</td>
</tr>
</tbody>
</table>
The third pattern is one in which [é] occurs under stress along with [i] not under stress. The preceding consonant is \( C' \). In notation, the pattern is: \( \{ \emptyset \sim C'\{\acute{\text{e}} \sim i\} \} \). It occurs by default, when the lexical conditions for \( \{ \emptyset \sim C^0\{\acute{o} \sim a\} \} \) and the phonological conditions for \( \{ \emptyset \sim C'\{\acute{o} \sim i\} \} \) are not met. It is relevant to note that, before hard labials, one might expect the same vowel as with hard velars and dentals, but in fact the majority of the few forms have \( \{ \emptyset \sim C'\{\acute{\text{e}} \sim i\} \} \) rather than \( \{ \emptyset \sim C^0\{\acute{o} \sim a\} \} \).

The distribution of variants is summarized in Table 2.13.

Matters are analogous but simpler in the masculine predicative (short) form of adjectives. The majority of tokens of fleeting vowels involve suffixal \{-n-\}, from *-*нъ-. Synchronically the alternation is the pattern \( \{ \emptyset \sim C^0\{\acute{o} \sim a\} \} \). Observe:

- **After palatals**, смеёнй ‘amusing’, смеён (note spelling with «о»), тóшный ‘nauseating’, тóшен; **after labials and dentals**, ýмный ‘intelligent’, умён; гурнй ‘bad’, гурён; удобный ‘comfortable’, удобен; красный ‘beautiful’, красен. This \( \{ \emptyset \sim C'\{\acute{o} \sim i\} \} \) is also the pattern for anaptyctic vowels in clusters in which the second consonant is a dental: óстрый ‘sharp’, остёр; кáсльй ‘sour’, кáсел. A velar normally conditions \( \{ \emptyset \sim C^0\{\acute{o} \sim a\} \} \), hence [a] for the unstressed position: гóлыйй ‘long’, гóлос; мýккий ‘soft’, мýкос. If the preceding consonant is soft or a palatal, palatalization is maintained, and the pattern is \( \{ \emptyset \sim C^0\{\acute{o} \sim a\} \} \); гóркий ‘bitter’, гóрек [i]; хýденьйй ‘thin’, хýденьек [i]; бóйкий ‘boisterous’, бóек [i]; тáжккй ‘difficult’, тáжек [i].

From the range of contexts the following generalizations emerge. The pattern \( \{ \emptyset \sim C^0\{\acute{o} \sim a\} \} \) is restricted; it occurs with a limited number of individual lexical items, with suffixal \{-k-\}, and after a velar. If the specific conditions for \( \{ \emptyset \sim C^0\{\acute{o} \sim a\} \} \) are not met, then either \( \{ \emptyset \sim C^0\{\acute{o} \sim i\} \} \) or \( \{ \emptyset \sim C'\{\acute{\text{e}} \sim i\} \} \) occurs, which are the same for unstressed vowels. Under stress, they are distributed complementarily according to the following consonant. Before (hard) velars and hard dentals (not [c]), the pattern is \( \{ \emptyset \sim C'\{\acute{\text{e}} \sim i\} \} \), with stressed [e], and elsewhere \( \{ \emptyset \sim C'\{\acute{\text{e}} \sim i\} \} \), with stressed [i].

There are some additional, rather specific, contexts in which full-null ablaut occurs. Prefixes acquire \{o\} (usually unstressed) before roots with the null grade, for example: сокра́ть (cерý) ‘rip off’, подобра́ть (погдорый) ‘pick up’, созва́ть ‘call together’, отогрý (отмерёт) ‘die off’. The roots which condition the full grade in prefixes have to be specified lexically. Prepositions likewise adopt «о» before certain roots (§4.2.2).
Inflectional morphology

3.1 Introduction
Much of the work of Russian grammar is done by inflectional morphology: a
given word has a basic shape that is relatively stable, while the end of the word
varies, resulting in different forms of one word that are used with different
functions or in different contexts. Nouns and verbs differ somewhat from each
other in their strategies of inflection.

Nouns present a pleasingly geometric paradigm: to use a noun, a speaker
chooses one of about a dozen distinct forms expressing one of six cases and, si-
multaneously, one of two numbers. Nouns are partitioned into three declension
classes. With few exceptions, the stems of nouns remain the same, or nearly the
same, in all cases and numbers. Thus кость 'bone' (from Declension<IIIa>) uses
a stem {кост-} in all forms (ном sg кость, dat sg кости), while дело 'deed, mat-
ter' (of a different declension class, Declension<Ib>) uses the same stem {дел-} in
almost all forms (ном sg дело, dat sg делу, ins pl делами, though loc sg деле
implies a slightly different stem, {дел-}). Though the stems are stable, the endings
differ depending on the declension class, as is evident from the difference in (for
example) dat sg кости as opposed to dat sg делу. Nouns are also partitioned into
one of three syntactic genders reflected in patterns of agreement in adjectives
and verbs; the partition into syntactic genders is closely correlated with (though
it is not identical to) the partition into declension classes. A noun belongs to
a single gender. Adjectives, unlike nouns, vary in their shape according to the
case, number, and gender, in agreement with the noun with which they are
associated. Adjectives and verbs distinguish gender in the singular but not in
the plural. Accordingly, it is possible to speak of a distinction of four gender-
number forms: the three singular genders and the plural. Personal pronouns
(first-person, second-person, reflexive) distinguish case and number but not gen-
der. Third-person pronouns distinguish gender in the singular, as well as case
and number.

Verbs differ from nouns in various respects. While singular nouns have dif-
ferent endings depending on the declension class, verbs have more uniform
grammatical endings. For example, {\$} marks the second-person singular of
the present tense, in all verbs; \{-ji\} (spelled «jni») is the past-tense plural ending for all verbs. With respect to the shape of the stem, verbs are morphologically more heterogeneous than nouns (§3.2.1).

Each form in the whole set of inflectional forms of any word – noun, adjective, verb – has a stress. Stress is not automatically and consistently assigned to one and the same syllable in every word or form of a word, such as the first syllable (as in Czech) or the penultimate syllable (as in Polish). Depending on the word, stress can be fixed on the root or on a suffix or can vary between the ending and other positions, as, for example, in NOM SG գույա ‘soul’, ACC SG գույ, GEN SG գույի, NOM PL գույի, DAT PL գույիմ ‘soul’ or 1SG նայե ‘I write’, 2SG նային, FEM PST նայելա, PSV նայած ‘write’. The number of patterns of stress is, however, small.

3.2 Conjugation of verbs

3.2.1 Verbal categories
In contrast to the pleasingly geometric declension of nouns, the conjugation of verbs is more heterogeneous. The morphological techniques used by verbs are not always strictly inflectional, and verbs have more variation in their stems.

In verbs, the inflectional endings are added to a verbal stem that includes the root and, in most verbs, an additional conjugational suffix. The suffix together with the root forms a stem that is phonologically suitable for adding endings. The suffix and the verbal stem can have different shapes in anticipation of the ending. For example, the past-tense feminine form թրեբուալա includes a conjugational suffix \{-ova-\} that ends in a vowel before the following consonantal marker of the past tense (the \{-la\}), while the present second-person singular form թրեբուերь includes a suffix \{-uj-\} ending in a consonant before the endings of the present tense, which begin with vowels. Because the stem does not always have the same shape, it is necessary to distinguish two stems for verbs, the past-infinitive stem and the present stem. The pairing of stems defines the conjugation class to which a verb belongs. For example, թրեբուարь with its two stems belongs to the class \{{-ova-}\_<PST-INF> : {-uj-}\_<PRS>\}, or, more simply, if the alternate stems are cited in the same order consistently, \{-ova- : -uj-\}.1

A prominent, characteristically Slavic category, is the category of aspect. Almost every verb can be classified as perfective or imperfective, with only a limited number of indeterminacies. The distinction of aspect is more a partition of the lexicon than an inflectional operation. There is no single morphological device that marks the opposition of aspect; rather, aspect is expressed by a combination

1 On verbal categories, see Jakobson 1932/1971[b], 1957[a]/1971[b].
of strategies. Verbs without prefixes (simplex verbs) are, as a rule, imperfective: писа́ть<1f> 'write', крутитъ<1f> 'spin'. Verbs with prefixes as a rule are perfective – переписа́ть<cpf> 'write over', закруче́ть<cpf> 'twirl around' – except when an additional derivational suffix makes them imperfective: переписы́вать<1f>, закру́чивать<1f>.

Finite forms distinguish the imperative mood from forms expressing tense.2

The imperative makes use of the present-tense stem. If the stress falls on the verbal stem throughout the present and if the stem ends in a single consonant, no further vowel is added to the stem: мурлóч 'purr!' (1SG мурлóчу is not stressed on the ending). If the first-person singular present is stressed or if the stem ends in a consonant cluster, the stem is expanded by adding a suffix {-i}: писа́й 'write!' (1SG писа́й is stressed on the ending) or нýдро 'powder!' (though 1SG нýдрыо is not stressed on the ending, the stem ends in a cluster). In the singular there is no further marker; an extra morph {-te-} ([t], spelled «те») is added to make a plural imperative or an imperative for formal address to one person. Verbs with the prefix вё, which is necessarily stressed as long as the verb is perfective, rely on the stress in the simplex verb from which the perfective is derived to determine whether to add the suffix {-i}. Thus, root stress in 1SG бро́шу 'I throw', им вё́сь and стáвлю 'I place', им стáвь implies им вё́брось, вы́ставь, while, in contrast, stress on the ending in 1SG вёдй, им вё́дй and тя́нй, тя́нй implies вё́веди, вё́дян. However, analogical forms with {-i} – вё́брось, вы́ставь – have become frequent (as much as a third of the tokens on the web).3

Another idiosyncrasy concerns the small number of verbs whose monosyllabic present stem ends in [j]: клевáть 'peck', смéйтъ 'laugh', сто́ять 'stand' (§3.2.6).

With the appropriate intonation, first-person plural forms can be used hortatively, to encourage the participation of the addressee (— Идем к нам, — сказал Юра '— Let’s go to our place, — said Iura'). Expanded with -te, the first-person plural is used as a plural or formal 3-form (— Идемте старичка потешить '— Let’s [all] go comfort the old man').

The expression of tense intersects with aspect. Imperfective verbs distinguish three tenses: past, present, and future. The morphological means used to express these three tenses differ. The present tense inflects for three persons and two numbers, 1SG кручу 'I turn', 2SG кручишь, etc. The future of imperfectives is a combination of the unique future of бы́ть (1SG бы́ду, etc.: §3.2.8) plus the infinitive. The past tense is marked by a transparent and generally stable formant {-l}. (It is, however, lost in the masculine singular of those verbs whose stem ends in a consonant other than a dental stop: нёс 'he carried', нёк 'he baked',

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2 Trubetzkoy 1975:223 stated clearly that the imperative and infinitive were tense-less forms.
3 Вёбрось(te): 6,310 xx / 17,090 xx total = 37 percent, вёстая(te) 2,838 xx / 18,948 xx total = 15 percent <15.IX.02>.
Inflectional morphology

грёб ‘he rowed’, вёз ‘he conveyed’). Since it developed from a participle, the past expresses the three singular genders and one plural that does not distinguish gender rather than person and number: MSC пёл ‘he sang’, FEM пёла, NT пёло, PL пёлы.

Perfective verbs distinguish two tenses. One, marked by {-l-} and gender-number markers, is unambiguously a past tense. The other tense has the same morphological shape as the present tense of imperfectives: perfective закру́тить ‘to wind around’ forms 1SG закру́чý, 2SG закру́ти́шь, parallel to imperfective 1SG кручý, 2SG кручи́ть, etc. These present-tense forms of perfective verbs, however, do not report present events – events that are actual at the here and now of speech, but events that are anticipated to occur at some future or hypothetical time (§6.5.8, 6.5.7): кончиться ‘will come to an end’, сочинить ‘she will compose’. Thus, in these perfective forms there is something of a discrepancy between the form, which is parallel to the present-tense forms of imperfectives, and the function, which is not that of a present tense. It is an old problem what to call these forms – whether “present,” in honor of their form but not their function, or “non-past,” in honor of their function but not their form. Here these forms are termed present-tense forms, but with the understanding that they do not report actual, present-time events.4

The particle бы expresses irrealis modality – a situation that is not unambiguously real. The resulting combination is less of an inflectional category than, for example, the opposition of present vs. past tense. The verb, if finite, must at the same time inflect for past tense; the tense marking is the real inflection. Moreover, the particle does not always occur immediately after the verb (§6.2.1).

Participles are adjectival – the usual sense of participles – or adverbial (that is, деепричастия). Adjectival participles can be active or passive. Participles are created by adding a formant that forms the participial stem. In adjectival participles, the stem is then followed by the inflectional endings of adjectives. The formation of active adjectival and adverbial participles intersects with aspect. Not all of the eight conceivable forms are used freely.5 The possibilities are schematized in Table 3.1.

Past active adjectival participles, perfective and imperfective, are formed by adding {-vs-} to the past-infinitive stem when it ends in a vowel, and to this stem are added adjectival endings expressing gender, case, and number: разгроми́вший ‘having routed’, написа́вший ‘having written’, дости́гну́вши́й ‘having reached’, вырывавши́й ‘having ripped out’, подумавши́й ‘having thought’. Verbs whose past-tense stem ends in a consonant use the formant {-š-}: принёси́й ‘having brought in’ (MSC NOM SG), привё́дшию ‘having led

Table 3.1 Aspect, tense, and participles

<table>
<thead>
<tr>
<th></th>
<th>imperfective</th>
<th>imperfective</th>
<th>perfective</th>
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</thead>
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<tr>
<td></td>
<td>adjectival</td>
<td>adverbal</td>
<td>adjectival</td>
<td>adverbal</td>
</tr>
<tr>
<td>present</td>
<td>пишуций</td>
<td>пиша</td>
<td>—</td>
<td>принеся²</td>
</tr>
<tr>
<td>past</td>
<td>писаўший</td>
<td>[? писа́в(ши)]</td>
<td>написа́вший столкну́вшийся</td>
<td>написа́в столкну́вшись</td>
</tr>
</tbody>
</table>

pisáť<inf> 'write', напи́са́ть<inf> 'write', принес́ть<inf> 'deliver', столкну́ться<inf> 'conflict with'

\[ \Delta = \{ \text{C VT- : C VT-[e]} \} \] stems ending in dental consonant

in' (fem acc). Past imperfective participles are still used:

[1]  
<...> художник, писа́вши́й<inf> PST PCL> портреты и расписа́вши́й<inf> PST PCL> церкви
<...> an artist, who used to do portraits and decorate churches

The present active adjectival participle (imperfective) can be generated by subtracting the \{-t\} from the third plural present and adding the formant \{-ς\}: молять > мола́щий 'beseech', пишут > пишу́щий 'write'. Present active adjectival participles of imperfectives are used freely ([2]); perfectives are not used.

[2]  
<...> бумагой, предписы́вающе́й<inf> PRS PCL> в 24 часа очисти́ть весь второй этаж дома <...> a document dictating the evacuation of the whole second story within 24 hours

Adverbial participles developed from adjectival participles as they stopped declining. The present adverbial participle (imperfective) is \{-a\} added to the stem of the present tense: ища ‘searching’, гумая ‘thinking’ (present stem {дum-aj-}), организу́я ‘organizing’ (present stem {орга́низ-uj-}). A mutable consonant is palatalized (C’ grade): неся ‘carrying’, приво́дя ‘adding’, глядя ‘seeing’, помня ‘remembering’. The present adverbial participles formed from verbs with phonologically minimal stems are awkward (but possible: периодически повизгива́я, свистя, и рев<dee> на себе одежду от избы́тка чувств ‘periodically squealing, whistling, and tearing their clothes from an excess of feelings’); they are not standard with stems that require a velar to be palatalized (?печя́ ['baking'], ?беречь́ ['protecting']). The past adverbial participle is a truncated version of the adjectival participle in \{-ς\}, usually just \{-v\}: оста́ть ‘having left behind’, вы́брали ‘having chosen’, постави́ли ‘having placed’, уви́дел ‘having seen’, прие́хал ‘having arrived’; the fuller form in \{-ςи\} is used occasionally: оста́ви (§6.3.5).
Reflexive verbs require {-vsi} to support the reflexive affix: сослалъся ‘having referred to’, осталъся ‘having remained’, столкнувшись ‘having collided’. Perfective verbs whose past-infinitive stems end in a dental consonant now use the original present-tense formant {-a} for the past adverbial participle: принесъ ‘upon bringing, having brought’, ввёлъ ‘having led in’, обрёлъ ‘upon discovering, having discovered’.\(^6\)

The distribution and use of adverbial participles is especially sensitive to aspect (§6.3.6). Present adverbial participles of imperfectives are used widely, but past adverbial participles of imperfectives, such as думалъ ‘having thought’, бивъ ‘having been beating’, though they are listed in grammars, are rarely used. There is basically only one type of adverbial participle of perfective verbs.\(^7\)

The past passive participle is formed from transitive perfective verbs, those governing accusative objects in their active form. (It is formed residually from a small number of simplex imperfectives: писанъ ‘written’.) There are three formants. Verbs whose past-infinitive stem ends in {a} take a suffix {-n-}: написанъ ‘written’, сформированъ ‘formed’, оторванъ ‘ripped off’. Another, related suffix is used with verbs whose past-infinitive stem ends in a consonant (нёс implies принесъ ‘brought’) or verbs whose past-infinitive stem should end in a vowel other than {-a-}, when the vowel is truncated specifically in this form: {CVC-i-} > {CVC} уволенъ ‘released’, {CVC-e-} > {CVC} преодолёнъ(преодолено, преодоленъ) ‘overcome’. This suffix, spelled «ен» (explicit «ён»), is pronounced [ön] under stress (принесён, преодолён) and [un] not under stress (уволен) ([un] after hard palatals: умножен ‘multiplied’). And third, {-t-} is used with specific verb classes, notably verbs suffixed with {-nu-}: дости́нъут ‘achieved’, also with past-infinitive stems that end in a vowel that is not part of a conjugational suffix: закрытъ ‘closed’, отши́тъ ‘sewn off’, уколовъ ‘pierced’.

Present passive participles, limited to written Russian, are formed by adding {-m-} to the present-tense stem of imperfectives: руководи́мый ‘led’, from imperfective руководи́ть; описывая́мый ‘being described’, from imperfective описывань.

Infinitives, like participles, lack a subject. If participles present an event as a quality (adjectival) or circumstance (adverbial), infinitives present events as possibilities. And indeed, in older grammatical traditions, the infinitive was considered a mood. The infinitive is marked by {-т} added to the past-infinitive stem; that stem ends in a vowel for most verbs. With those verbs whose stem

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6 Rarely, принесъ (4%), принесу (1.9%) <04.XI.02>.
7 SLRA 2.165 cites an innovative use of present-tense perfective participles with an exemplary meaning: Я мог призвести сотни отрывков из книг Грина, азбукающих,
последних, не потерпевших способности волноваться перед зрелищем прекрасного ‘I could cite hundreds of examples of fragments from Greene’s books that would excite anyone who has not lost the capacity to experience excitement in the face of the spectacle of the beautiful.’
Table 3.2 Morphological strategies of verbal categories

<table>
<thead>
<tr>
<th>category</th>
<th>stem</th>
<th>morphological marker</th>
</tr>
</thead>
<tbody>
<tr>
<td>infinitive</td>
<td>pst-inf</td>
<td>{-t} + gender-number markers</td>
</tr>
<tr>
<td>past tense</td>
<td>pst-inf</td>
<td>{-i} + adjectival declension</td>
</tr>
<tr>
<td>past active adjectival participle</td>
<td>pst-inf</td>
<td>{-vš} + adjectival declension</td>
</tr>
<tr>
<td>past active adverbial participle</td>
<td>pst-inf</td>
<td>{-v} (resultative {-vši}) ∼ {-vši-š}</td>
</tr>
<tr>
<td>past passive participle</td>
<td>pst-inf</td>
<td>{-t} + adjectival declension (verbs; /asuffixal vowel-stem verbs) {-n} + adjectival declension (/{-a} verbs) {-on-} ({-[on]-}) + adjectival declension (stem ends in vowel not {-a-})</td>
</tr>
<tr>
<td>imperative</td>
<td>prs</td>
<td>{-θ} ∼ {-i} (if 1sg {-ú} or if {CVCC&lt;prs-}) + sg {θ} ∼ pl {te}</td>
</tr>
<tr>
<td>present tense: 1SG</td>
<td>prs</td>
<td>{-u}, all classes</td>
</tr>
<tr>
<td>present tense: 2SG 3SG 1PL 2PL</td>
<td>prs</td>
<td>thematic</td>
</tr>
<tr>
<td>present tense: 3PL</td>
<td>prs</td>
<td>{-at} if thematic</td>
</tr>
<tr>
<td>present active adjectival participle</td>
<td>prs</td>
<td>{-a} if thematic</td>
</tr>
<tr>
<td>present adverbial participle</td>
<td>prs</td>
<td>{-a} (implying C')</td>
</tr>
</tbody>
</table>

ends in a consonant, the consonants and the infinitive ending together are stressed {-sǐi} (неси ‘carry’, срези ‘row’). In stems ending in a velar, the velar and infinitive fuse as {-ç}: нёх ‘to bake’, прене́бречь ‘to ignore’.

The categories of verbs and their morphological strategies are summarized in Table 3.2.

3.2.2 Conjugation classes

As noted, verbs have two possible stems, used for different categories. The past-infinitive is used for the infinitive, past, and past participles (the past active adjectival participle, the past adverbial participle, the past passive participle).

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8 The issue of whether verbs should be described in terms of two stems (as in a long tradition, from Leskien on) or one (as in Jakobson 1948/1971[b]) is a non-issue. The most durable observation of Jakobson’s study is the observation that there is complementarity in the shape of stems in the past-infinitive (the stem ends in a vowel before consonantal endings) and the present (the stem ends in a consonant before vocalic endings). If one starts with the single underlying stem, to produce this complementarity, the single stem has to be modified immediately to yield two alternate stems – that is to say, there are two stems after all (Chvany 1990, Elson 1986). Alternative approaches to verbal morphology are offered by Lehfeldt 1978, Fegert 1986.
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The present stem is used for the present-tense forms, the imperative, and present participles (adjectival and adverbial active and present passive participle). When the stems are different, as they are for most verb types, they differ in how the conjugational suffix is treated: it is longer in one stem and shorter or missing altogether in the other. Inflectional endings in the past-infinitive subsystem begin with consonants, and by complementarity, the stem of the past-infinitive of most verbs ends in a vowel. The inflections of the present tense begin with a vowel, and by complementarity, the verbal stem ends in a consonant before these vocalic endings.

There are two conjugations, which differ according to the thematic ligature used between the stem and the markers of person and number in the “middle” forms of the paradigm – the second- and third-person singular and first- and second-person plural. One conjugation uses a suffix spelled «и»: молчаньше ‘be silent’, 3SG молчанъшь, 1PL молчамъ, 2PL молчаёт. The third plural of this conjugation is {-ат} without the ligature: 3PL молчатъ. Verbs of this type might be termed “и-Conjugation”; its thematic ligature can be written as “[и].” The other conjugational class has a vowel in the middle forms of the paradigm that derives from *е and is spelled now «э» (or if stressed, in explicit style, «е»): 2SG деляешь, несёшь (inexplicit несешь), 3SG деляет, несет (несет), 1PL деляем, несём (несем), 2PL деляете, несете (несете). The third plural is {-ут} without the ligature: 3PL деляютъ, несутъ. Although the vowel is pronounced as [o] when it is stressed, as in 2SG несёшь, etc., it is convenient to follow history and orthography and identify this as the “е-Conjugation” and write the thematic vowel as “[е].” The first singular is {-у}, without the ligature, in both conjugations.

Within each of these two conjugations, it is possible to distinguish more specific conjugation classes depending on the shape of the two stems. The classes with illustrative verbs are listed in Table 3.3. An abstract stem shape is given for the past-infinitive and the present stem of each type. A verb class can be identified as the set composed of the two stems. Thus любить is: \{CVC|i|<prs>: \{CVC-i- <pст-inf> : \{CVC-i- : CVC|i|\}. In the column before the gloss, they are identified by the number of the conjugation type assigned in Zalizniak 1977[a].

All verbs of the и-Conjugation (top group in Table 3.3) have an overt suffix in the past-infinitive subsystem, but the suffix is missing in the present tense. The е-Conjugation divides into four groups. In one group, which includes the two most productive classes, there is a conjugational suffix that is syllabic in both subsystems; for example, бросать ‘throw’ is \{bros-a- <pст-inf> : \{bros-a-|e| <prs> \}. In a second group, there is a suffix in the past-infinitive but it is lost or reduced to a non-syllabic form in the present subsystem, for example, плакать ‘cry’ \{plak-a- <pст-inf> : \{plак-|e| <prs> \}. The third group, of ассулфиксal verbs, is a heterogeneous set of conjugation classes, each of which has a limited
Table 3.3 Conjugation classes

<table>
<thead>
<tr>
<th>Past-infinitive</th>
<th>Present</th>
<th>Infinitive</th>
<th>2sg</th>
<th>no. Δ</th>
</tr>
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<tr>
<td>{CVC-i}</td>
<td>{CVC-ii}</td>
<td>любить</td>
<td>любишь</td>
<td>4</td>
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<tr>
<td>{CVC-e}</td>
<td>{CVC-ii}</td>
<td>смотреть</td>
<td>смотришь</td>
<td>5</td>
</tr>
<tr>
<td>{CVC-α}</td>
<td>{CVC-ii}</td>
<td>молчать</td>
<td>молчишь</td>
<td>5</td>
</tr>
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<td>{CVC-aj}</td>
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<td>бросаешь</td>
<td>1</td>
</tr>
<tr>
<td>{CVC-e}</td>
<td>{CVC-ej}</td>
<td>пьянеть</td>
<td>пьянеешь</td>
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</tr>
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<td>{CVC-ova}</td>
<td>{CVC-uj}</td>
<td>требовать</td>
<td>требуешь</td>
<td>2</td>
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<td>{CVC-ν}</td>
<td>{CVC-n}</td>
<td>брызнуть</td>
<td>брызнешь</td>
<td>3</td>
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<td>плакешь</td>
<td>6</td>
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<td>{CVC-ν}</td>
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<td>сосешь</td>
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<td>ждать</td>
<td>ждешь</td>
<td>6</td>
</tr>
<tr>
<td>{CCα}</td>
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<td>брать</td>
<td>берешь</td>
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<td>даешь</td>
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<td>клевать</td>
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<td>живешь</td>
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<td>кроешь</td>
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<td>пьешь</td>
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<td>дёшней</td>
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<td>мержь</td>
<td>мрёшь</td>
<td>9</td>
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<td>{CVC}</td>
<td>{CVC-e}</td>
<td>нести</td>
<td>несешь</td>
<td>7</td>
</tr>
</tbody>
</table>

Δ = index of conjugation class in Zalizniak 1977[a]

The four conjugation classes differ in not entirely predictable ways, for example 
заботиться ‘call’ {{zva}-<PST-INF> : {zov}-<PRS>}. The number of members. The stems of the two subsystems differ in not entirely predictable ways, for example заботиться ‘call’ {{zva}-<PST-INF> : {zov}-<PRS>}. The fourth type is the set of verbs that lack any suffix; the stem ends in a consonant in both subsystems: нести ‘carry’ {{νοσ}-<PST-INF> : {νεσ}-<PRS>}. Verbs of the e-Conjugation have unpalatalized consonants (C0) in the first-person singular and third plural, but palatalized consonants (C) in the middle forms: лезу ‘climb’ with [z] but лезешь with [z]. The past-infinitive is generally stable, except for the type мержь ‘die’ (cf. мёрли) and consonant stems such as inf вести ‘lead’ (MSC PST вёл, FEM вела).

### 3.2.3 Stress patterns

The possible stress patterns of verbs are relatively restricted.

In the past, there are four patterns overall, two widespread and two restricted. (a) Stress can fall consistently on the root (= ‘R’): славила.<FEM>, 
3.2.4 Conjugation classes: 1-Conjugation

1-Conjugation has a limited number of groups, all suffixal. The conjugational suffix can be \{-i\}, \{-e\} (\{*e\}), or \{-a\} (historically a variant of the preceding, since \{*e\} > a after palatals and \{i\}). The conjugational suffix is present in the past-infinite stem (просить ‘ask’, просили), lost or replaced by the conjugation marker \{i\} in the present (пойдём, пройдём). Consonants were followed by \{j\} (hence \{C\}) in the first-person singular and palatalized before the conjugational suffix (whether \{i\} or \{j\}) and before the thematic vowel \{i\} in the other forms of the present tense and the past-infinite, resulting in an alternation of \{C\} grade 1SG: (про́йду, оби́ду и \{C\} grade 1SG: проси́ть, оби́дь, 2SG оби́дь ‘insult’. In abstract terms, the conjugation pattern is: \{CVC\{-i\}\} or, more simply, \{CVC\{-i\}\}. Similarly, смотреть ‘observe’ is \{CVC\{-e\} : CVC\{-i\}\} and держать ‘hold’ \{CVC\{-a\} : CVC\{-i\}\}. Included in the last group are стоять ‘stand’, бойться ‘fear’, and their derivatives, which have a stem ending in \{j\} (though the \{j\} is absorbed before \{i\}); despite stress, the imperative lacks the characteristic -\{i\}: стой (despite стой), не бойся (1SG бойся). In verbs of the type \{CVC\{-i\}\}, the consonant was also followed by \{j\} in the past passive participle: пройден. In verbs in \{*e\}, \{C\} is etymologically incorrect in the passive participle обижен ‘insulted’; the original \{C\} is preserved in увиден ‘seen’ and in archaic претерпел, now usually претерпел ‘endured’. The passive participle in this class of verbs thus has the suffix \{-on\} (unstressed \{in\}, \{in\}).

The conjugations of representative verbs are given in Table 3.4. There are three accentual types. (a) Stress falls consistently on the root in past and present; the
### Table 3.4 1-Conjugation

<table>
<thead>
<tr>
<th>{CVC-i}</th>
<th>{CVC-e}</th>
<th>{CVC-j-a}</th>
<th>{CVC-j}</th>
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<tbody>
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<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>INF</td>
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<td></td>
</tr>
<tr>
<td>PRS 1SG</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>PRS 2SG</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PRS 3SG</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PRS 1PL</td>
<td></td>
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<td></td>
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<tr>
<td>PRS 2PL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PRS 3PL</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>PRS PCL</td>
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<td></td>
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<td>PRS DEE</td>
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<td>IMV 2SG</td>
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<td>IMV 2PL</td>
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<tr>
<td>PSV</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>‘rob’</td>
<td>‘fly’</td>
<td>‘hold’</td>
<td>‘stand’</td>
</tr>
</tbody>
</table>

The pattern could be written as \( \{R_{<\text{PST-INF}>} : R_{<\text{PRS}>} \} \), or more simply as \( \{R : R \} \): грабить ‘bury’, граблю, грабишь; видеть ‘see’, вижу, видаш; слышать ‘hear’, слышу, слышишь. (b) Stress falls consistently after the root — on the suffix in the past and on 1sg {-u} and 3pl {at} and thematic {-i}, or \( \{F : T \} \): говорить ‘speak’, говорил, говорила; говори, говоришь; звенеть ‘ring’, звенел, звенья; звонё, звонишь; молчать ‘be silent’, молчу, молчала; молчы, молчишь. (c) Stress falls on the suffix in the past and variably on the 1sg {-u} but antathetically on the last syllable of the stem in the rest of the present, or \( \{F : A \} \): любить ‘love’, люблю, любила; люби, любишь; смотреть ‘observe’, смотрел, смотрела; смотри, смотришь; держать ‘hold’, держа, держала, держу, держишь. In the past passive participle, stress stays on the root if it is on the root in other forms: расслаблен ‘praised’, расслабленна, расслаблено, расслабленный; обижен ‘insulted’, обежен, обижен, обиженный; услышан ‘heard’, услышана, услышано, услышанный. The combination of suffixal stress in the past with antedesinential stress in the present (\( \{F : A \} \)) gives stress on the syllable before the suffix in the passive: возлюбить ‘love’ (возлюблю, возлюбишь),
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When stress in the present is thematic (\{F : T\}), the class \{CVC-i\- : CVC[^i-i]-\} keeps stress on the ending: омрачать ‘darken’ (омрачу, омрачийшь), омрачён, омрачено, омрачённый. The other two classes (\{CVC-α : CVC[^i-i]-\}) pull stress back to the syllable before the passive formant: усидеть ‘sit through’ (усижу, усидишь), усажен, усажено, усаженный; отлежать ‘finish reclining’ (отлежи, отлежишь), отлёжан, отлёжана, отлёжано, отлёжаный.

In the \{CVC-α : CVC[^i-i]-\} type, there is a tendency to shift from thematic stress to antithematic stress in the present and past passive participle. Verbs differ. Some have just begun to shift: разгромить ‘rout’, разгромишь (*разгромишь), разгромлён (разгромлен). Other verbs have almost completed the shift: иссушишь ‘dry out’ иссушишь, current иссушен (older иссушил, иссушил).

3.2.5 Conjugation classes: suffixed €-Conjugation

€-Conjugation verbs, less uniform overall, vary in the extent to which they make use of a conjugational suffix. Some do. Others, termed as suffixal below, do not have a suffix, or have only a remnant of the conjugational suffix.

Two of the classes maintain the suffix in both stems. These are the two most productive classes of Russian conjugation. One type has stems \{CVC-α[^i< pst<inf>-] : CVC[^a< pst<inf>-]\}. Stress can be either consistently on the root or consistently on the suffix: \{R : R\} гёлать ‘do’, гёлал, гёлало, гёлало; \{F : F\} бросать ‘throw’, бросил, бросило, бросивший. The passive participle has {-н} added to the stem \{CVC-α\}; stress is drawn off the {-а} onto the previous syllable: разбрóсан ‘thrown around’, разбрóсано, разбрóсанный.

A related type has the vowel {-e} rather than {-a} in the suffix: \{CVC-€[^i< pst<inf>-] : CVC[^e< pst<inf>-]\}. This type, which makes verbs from adjectives, has the same two stress options: \{R : R\} угрёметь ‘grow sad’, угрёмёл, угрёмено, угрёмевшь; \{F : F\} пьянеть ‘become intoxicated’, пьянёл, пьянео, пьянеешь. These are mostly intransitive and do not form passives. An exception is преодолеть ‘overcome’, whose participle is преодолён, преодолен, преодолено, преодолённый, which shows the passive formant {-он}. The form and stress are innovative. Etymologically, the suffixal vowel derives from *ё, which did not undergo the change of *ё > о (witness преодоле́л).

Another, productive, group of suffixed €-Conjugation verbs has a stem \{CVC-eva-\} alternating with \{CVC[^v< pst<inf>-] : CVC[^v< pst<inf>-]\}. There are two stress options: root stress

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Table 3.5 Representative conjugations: suffixed e-Conjugation

<table>
<thead>
<tr>
<th>{CVC-a-}</th>
<th>{CVC-ova-}</th>
<th>{CVC-a-}</th>
<th>{CVC-nu-}</th>
<th>{CVC-a-}</th>
</tr>
</thead>
<tbody>
<tr>
<td>{R : R}</td>
<td>{F : F}</td>
<td>{F : A}</td>
<td>{F : A}</td>
<td>{F : T}</td>
</tr>
</tbody>
</table>

INF  | де́лать       | колдо́вáть   | писа́ть   | тяну́ть  | сосáть  |
PRS 1SG| де́лаю       | колду́ю      | пишу́     | тану́   | сосу́   |
PRS 2SG| де́лаешь    | колду́ешь   | пи́шешь   | тáнешь | сосéшь  |
PRS 3SG| де́ляет     | колду́ет    | пи́шет    | тáнёт  | сосéт   |
PRS 1PL| де́лаем      | колду́ем    | пи́шем    | тáнем  | сосéмы  |
PRS 2PL| де́лаете  | колду́ете   | пи́шете   | тáнете | сосéте  |
PRS 3PL| де́лают     | колду́ют   | пи́шут    | тáнут  | сосúт   |
PRS PCL| де́лающихий | колду́ющихий | пи́шу́щий | тяну́щий | сосу́щий |
PRS DEE| де́ляя         | колдуйя     | пи́ша     | [? тя́ня] | сося́ |
IMV 2SG| де́лай       | колдуйй    | пиши́й   | тáнй   | сосй   |
IMV 2PL| де́лайте   | колдуйте   | пишите   | тя́ните | сосите  |
PST MISC| де́лал       | колдовáл    | писáл    | тя́нул | сосáл   |
PST FEM| де́лала     | колдовáла   | писáла   | тя́нула | сосáла  |
PST NT| де́лало     | колдова́ло   | писáло   | тя́нуло | сосáло  |
PST PL| де́лалы   | колдова́ли   | писáли   | тя́нули | сосáли  |
PST PCL| де́лавший     | колдовавший | писáвший | тяну́вший | сосавшь |
PST DEE| (c)де́лал   | (за)колдóвáв | (о)пи́сáв | (на)тя́нув | (об)сосáв |
PSV   | (c)де́лан    | (за)колдóван | (о)пи́сан | (на)тя́нут | (об)сосан |

‘do’  ‘enchant’  ‘write’  ‘stretch’  ‘suck’

{R : R}, as in трéбовать ‘demand’, трéбовал, трéбую, трéбующий, or consistent suffixal stress {F : F}, as in колду́вать ‘enchant’, колду́вал, колдую, колдующий. The passive has {-н}, with stress on the syllable before {-а-}: нари́совать ‘sketch’, нари́сован, нари́совано, нари́сованый, similarly рассу́ловать ‘kiss’.

In the two remaining classes of suffixal e-Conjugation, the suffix is reduced in the present. The type {CVC-nu- : CVC-n-} is used productively to make semelfactive (=singular occasion) perfectives of verbs that report intrinsically cyclical processes. These verbs have two stress patterns: {R : R} (брéзну́ть ‘spurt’, брéзну́л, брéзнуну́, брéзну́ний) or {F : T} (толкну́ть ‘shove’, толкнóл, толкну́н, толкнёшь). Some {-nu-} verbs are not semelfactive. They allow a third stress pattern: {F : A} тяну́ть ‘pull’, тану́, тяне́шь. The passive participle for {-nu-} verbs is {-т}, which forces stress off the suffix to the root: растя́ну́ть ‘stretch out’ (растя́ну́, растя́не́ешь), растя́ну́та, растя́нуто, растя́нутый; оттолкну́ть ‘shove away’ (оттолкнó, оттолкну́щий), оттолкну́тово, оттолкну́тный.
the purely consonantal endings of the infinitive and the passive participle in 
\{t\}: го́стить \(\sim\) го́сти́нуть ‘reach’, го́сти́гне́т; отгве́рнуть ‘cast away’, отгве́рну́т.
\((O)съ́стать ‘grow cold’, however, by ending in a vowel, is more tolerant.\) Active partici-
ples and the masculine singular past may lose the suffix: пст рст го́сти́гший \(\sim\) го́сти́гну́вший, отгве́ргий \(\sim\) отгве́рну́вший; мсц го́сти́г, отгве́рну́л. The other past-
tense forms are most likely to lose \{nu\}:
glcn∫xм \(\sim\) glcn∫xу́энм ‘reach’, glcn∫у́эн; jnd†хуи́нм \(\sim\) jnd†ху́йен ‘cast away’, jnd†ху́йен.

\(\text{Jcn}ßéнм ‘grow cold’, however, by ending in a vowel, is more tolerant.\) Active par-
ticiples and the masculine singular past may lose the suffix:
glcn∫уи́бк \(\sim\) glcn∫у́йедбк, jnd†хуи́бк \(\sim\) jnd†ху́йедбк; мсц glcn∫у, jnd†ху́йек. The other past-
tense forms are most likely to lose \{nu\}:
glcn∫ук \(\sim\) glcn∫у́эдк, jnd†хук \(\sim\) jnd†ху́эдк. Simplex forms are
more likely to keep \{nu\} than prefixed forms. For example, мё́рзну́ть ‘freeze’, has variation in two forms (мё́рз ~ мё́рзну́л, мё́рзший ~ мё́рзну́вший), while its
prefixed derivatives consistently lack the suffix \{за, на, об, в, по-, пере-, из-,
при, по-, про-, с-, вь-\}мё́рз, мё́рзший. The development is towards increasing use
of \{nu\} and regularizing this class of verbs. Occasionally the suffix even appears
in the feminine of simplex forms, the context that usually omits \{nu\}: линну́ла
for usual лину́ла.\(^{10}\)

Another class of suffixed \(e\)-Conjugation has a minimal suffix \{a\} in the past-
infinite and no suffix in the present, while the consonant is modified and
adopts the \(C'\) grade: \{CVCA- : CVCl|e|\}. There are two stress options. One is
consistent root stress \(\{R : R\} \): плáкать ‘cry’, плáкал, плáччу, плáчешь. The other is
\(\{F : A\} \) – suffixal in the past-infinitive and antethematic in the present: писáть
‘write’, писáла, пису́, писешь, импли́я писа́н.

The past-infinitive stem of this group \(\{CVCA- : CVCAj|e|\}\) is \(\{CVCA-\}\), which is
the same as the past-infinitive of the productive group \(\{CVCA- : CVCAj|e|\}\). As a
result, this type is being absorbed into the more productive group, at different
rates depending on the final consonant of the stem. The old pattern is preserved
well when the stem ends in a dental. Only one of the thirty-four verbs ending in
a dental (twenty-six in stop, eight in fricative) shows variation; метá́ть ‘throw’,
метáл, мечü ~ метáло.\(^{11}\) Of the twenty-four verbs ending in velar, sixteen show
some variation, the innovative variant маха́ет ‘wave’ (for мáхет) being used in
the 1960s survey by 17 percent of speakers born in the decade 1940–49 (but only
3\% on www.lib.ru <15.IX.02>, бръ́хает ‘splash’ (for бръ́хет) by 32 percent for
бръ́хать (18\% on www.lib.ru). Of the eleven verbs ending in labials, eight use
the innovative present in \{CVP-aj|e|\}; the most advanced is кáнать, which uses
the new variant (кáнает ‘drip’ for кáнле́т) to the tune of 72 percent of speakers
interviewed in the 1960s (82\% on www.lib.ru).

There is another very small group of verbs that has the same infinitive shape
\(\{CVCA-\}\), but in the present uses no suffix and no consonant modification: \{CVCA-
а- : CVCA|e|\}. Because the thematic vowel is added directly to the root-final conso-
nant, the present of these verbs has an alternation of consonants in the present,

\(^{10}\) П’ина 1976. However, forms such as (пр)лину́ла(а) are infrequent on the web.
\(^{11}\) In the investigation from the 1960s reported in Krysin 1974.
Table 3.6 Quasisuffixed e-Conjugation

| INF  | давать | клевать | рвать | брать | рватьсь |
| PRS 1SG | даю | клюю | рый | бери | рвьсь |
| PRS 2SG | даём | клюём | рём | берём | рвёмся |
| PRS 3SG | даёт | клюёт | рёт | берёт | рвётся |
| PRS 1PL | даём | клюём | рём | берём | рвёмся |
| PRS 2PL | даёте | клюёте | рёте | берёте | рвёте |
| PRS 3PL | даёт | клюёт | рёт | берёт | рвётся |
| PRS PCL | дающиий | клюющиий | рвущий | берущий | рвуущийся |
| PRS DEE | дава́я | клю́й | [? рвя] | беря | [? рвясь] |
| IMV 2SG | давай | клюй | рий | берй | рвй |
| IMV 2PL | давайте | клюйте | рйте | берйте | рвёте |
| PST MSC | давал | клевал | рвал | брал | рвался |
| PST FEM | давала | клевала | рвалá | бралá | рвалась |
| PST NT | давало | клевало | рвalo | брало | рвались |
| PST PL | давали | клевали | рвали | брали | рвались |
| PST PCL | дававшнй | клевавший | рваящий | бравший | рвавшийся |
| PST DEE | [? давав] | (за)клевав | (ото)рвав | (на)брав | (за)рвавшнй |
| PSV | — | (за)клёван | (ото)рван | (нй)бранны | — |

'give'  'peck'  'tear'  'take'  'strain'

$C^0$ grade (absence of palatalization) in the first singular and third plural, $C^1$ grade in the middle forms. Three stress patterns are found: \{R : R\} жаждать ‘thirst for’, жаждал, жажду, жаждешь; \{F : T\} сосать ‘suck’, сосал, сосу, сосёшь; and \{F : A\} стонать ‘moan’, стонал, стону, стонешь. In the passive participle, stress shifts back: обсошан ‘licked round’. A related subgroup is the small set of verbs in which the final consonant of the root is [j], and the suffix {-a-} disappears in the present; these verbs have root stress (сёять ‘sow’) or thematic stress (смейться ‘laugh’, смейсясь, смейсь, смейшесь). Exceptionally, the imperative has no vowel: смейся.

3.2.6 Conjugation classes: quasisuffixed e-Conjugation

Some verbs of the e-Conjugation have the reflex of a suffix {-a-} in the past-infinitive. The root without this vowel is phonologically minimal.

Давать ‘give’ and оставаться ‘remain’ have present-tense stems in [j] without [v], except in the imperative and participles. Another class is that of клевать
'peck', клю́й, клюё́шь; ковáть 'forge', ку́й, куё́шь; пле́вáть 'spit', плю́й, плюё́шь,
in which additionally [v] alternates with [j]. Stress is on the second syllable in the
past-infinitive, thematic in the present ({F : F}). The passive has antithematic
stress: {заклëвán. Although the first singular present is stressed, the imperative
lacks -и: плюй, суй, жуй, клюй, куй.

In some other classes the past-infinitive ends in {a}, but the preceding root
is phonologically debilitated. The thematic ligature can be added directly to the
cluster: ждáть 'wait', ждû́, ждё́шь, implying the formula {CCа́ : CC-е-}. Like
ждáть are: рдáть 'tear', орáть 'lie', жрáть 'devour', срдáть 'defecate', -прáть 'tram-
ple', ткáть 'weave'. In some verbs the cluster is broken up in the present tense
by a vowel augment, as in брдáть 'take', берû́, брё́шь; грдáть 'tear', герû́, герё́шь;
звáть 'call', зовû́, зовё́шь, implying the formula {CCа́ : CVC-е-}. In the present,
stress always falls on the thematic vowel. In the past, stress is mobile: ждáть
'await', ждáл, ждáлa, ждáлó; брдáть, брдâл, брдáлa, брдáлó; рвдáть,
рвáл, рвáлa, рвáлó; звáл, звáлa, звáлó. When these verbs are made re-
flexive, stress becomes fixed on the ending (except in the masculine singular):
рвáлся, рвáлóсь, рвáлóсь, рвальсéсь. But this end stress has begun to yield to stem
stress in an informal register: рвáлóсь, рвальсéсь > рвáлóсь, рвальсéсь.12 Попрдáть
'flout', with no augment in the present, has fixed root stress in the past.

The passive participle, in {-н-}, puts stress on the syllable before the [a], and
since the root is non-syllabic, stress ends up on the second or only vowel of the
prefix: отёрван 'torn off', отёрвана, отёрвано, отёрванный; ûбран 'cleaned up',
ûбрана, ûбраный.

Next comes a set of heterogeneous verbs that have a hyposyllabic stem {CV-} or
{CCV-} in the past-infinitive. The present can have various shapes. The following
subtypes can be distinguished. Corresponding to a past-infinitive stem {C(C)V-},
the present has the consonant followed by some vowel and [j]: вдить 'howl', вдлы́,
вдлa, вдó, вдё́шь (also крдить 'cover', ндить 'moan', рдеть 'dig', мдить 'wash'). Sim-
ilar, except for differences in vocalism, are ндеть (нoй) 'sing', дûть (дуё) 'blow',
зндить (знaйо) 'know', среть (срéю) 'warm', поцить (пoйцо) 'rest', обдуть (обдûю) 'shoe',
брдеть (брéо) 'shave'. Stress in the past falls on the root vowel consistently: пëlа,
pêли. A second type uses an augment [v] in the present instead of [j]: жд́ть, живû́
'live'; сльдеть, сльдû 'be reputed'; пльдть, пльдû 'swim'. Stress in the past is mobile:
жилá, жили. Another subtype has the augment [j] added to the present tense but
with no root vowel, or {C-[е]-}. Stress in the present is thematic by default. The
past has mobile stress: пдть 'drink', пдо, пдё́шь, пилá, пилû (also вдть 'wind',
лдть 'pour'), with the exception of бдть 'beat' and шнй 'sow', whose past tenses
are not mobile: бдо, бдё́шь, бîла, бîли.

12 Strom 1988, SRIa 1.144.
Superficially similar are verbs which have the augment [n] in the present. There are two variants. In one, the nasal (originally an infix added to the present tense) appears after the root-final vowel and the present-tense thematic vowel is added to a fully syllabic root in \{CVN\}; such are гёть ‘put’, гёну, гёнешь; статъ ‘become’, статъу, статешь. Stress is fixed on the root in the present and the past: гёть, гёл, гёла, гёли; статъ, сталъ, сталъа, сталъи. In the other variant the nasal consonant appears in place of the vowel of the past-infinitive (reflecting the historical alternation of *VN in position before vowels with a nasal vowel in position before consonants): жётъ ‘reap’, жёнъ, жёнешь; жётъ ‘squeeze’, жёмъ, жёмешь; [на]чать ‘begin’, [на]чный, [на]чнешь; [от]нять ‘grasp, take’, [от]нимъ, [от]нимешь (substandard variant, [от]нымъ, [от]ымешь). Stress in the present is thematic, except -йть. Stress in the past is either root (жётъ, жалъ, жала, жали, жалъ) or mobile, even going onto the prefix (начать, началъ, началъа, началъи). All of the verbs in these groups that have mobile stress in the past have fixed end stress in the reflexive counterparts of the verbs: начался (older начался), начался, началось, началась.

Rather different are: колотъ ‘prick’, колё, колешь; молотъ ‘grind’, мелё, мёлешь; бороться ‘fight with’, борёсь, борешься; поротъ ‘lash’, порё, порешь.
Table 3.7(b) Asuffixal e-Conjugation

<table>
<thead>
<tr>
<th>{CV-: CVN}</th>
<th>{CV-: CVN}</th>
<th>{CVRV-: CVR-e}</th>
<th>{CVRV-: CVR-e}</th>
</tr>
</thead>
<tbody>
<tr>
<td>{R: R}</td>
<td>{R: T}</td>
<td>{R: A}</td>
<td>{M: T}</td>
</tr>
</tbody>
</table>

INF  
1SG  
2SG  
3SG  
1PL  
2PL  
3PL  

<table>
<thead>
<tr>
<th>Action</th>
<th>Stem</th>
<th>Root</th>
<th>Passive Participles</th>
</tr>
</thead>
<tbody>
<tr>
<td>'place'</td>
<td>'squeeze'</td>
<td>'prick'</td>
<td>'rub'</td>
</tr>
</tbody>
</table>

Stress is antethematic in the present, when the consonant adopts C¹ grade even in the first-person singular. In the past-infinitive, stress is fixed on the second root syllable: колоть, колола, кололи. The two transitives колоть and молоть have retracted stress in passive participles: уколоть, уколота, уколото, уколотый. Мереть ‘die’, переть ‘close’, тереть ‘wipe’ have a non-syllabic present stem (implying thematic stress by default): мрь, мрёшь. Unusually for Russian conjugations, the past stem differs from the infinitive stem: переть, пёр, перла, перли, перло; мереть, мёр, мерл, мерли, мёрло.

Throughout these asuffixal verbs, the passive participle is generally marked by {-t-}. If the verb otherwise has root stress in the past, it has root stress in the passive participle: разгеть ‘deck out’, раздёл, раздёла, раздёт, раздёта, раздёто, раздётый; нажать ‘squeeze’, нажала, нажала, нажат, нажата, нажато, нажатый; растереть ‘wipe away’ (растёр, растёрла), растёрт, растёрта, растёрто, растёртый; сбрить ‘shave off’ (сбрёл, сбрёла), сбрёг, сбрёг, сбрёго, сбрёгит; отпеть ‘read the service over’ (отпел, отпела), отпет, отпета, отпето, отпетый; убить ‘kill’ (убил, убила), убит, убиты, убитый.

For those asuffixal verbs that take {-t-}, mobile stress in the past once implied mobile stress in the participle: начать ‘begin’ (начал, начало, начало)
Table 3.8 Consonant-stem e-Conjugation

<p>| | | | | |</p>
<table>
<thead>
<tr>
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<th></th>
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<td>печёт</td>
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<td>(у)кра́ден</td>
<td>(из)печён</td>
<td>(н)ле́зен</td>
</tr>
</tbody>
</table>

‘carry’ ‘steal’ ‘bake’ ‘crawl’ ‘protect’

нáчат, начатá, нáчато, нáчатый; прокlástь ‘curse’ (прóклюл, проклюлá, проклюлó), прóклюл, проклюлá, проклюто, проклю́тый; рас́пить ‘drink a shared bottle’ (распил, распи́л, распи́ло), распь́т, распы́л, распь́то, распь́тый; отжáть ‘outlive one’s time’ (отжáл, отжилá, отжáлó), отжáт, отжитá, отжáто, отжá́тый. These citations illustrate the point that, historically, mobile stress once meant that the stress retracted onto the prefix when it was not on the end (in the feminine). Stress on the prefix has been fading (manuals must be consulted for details), but it is still preserved in frequent verbs like начать.13

Among asuffixal verbs, the largest and most homogeneous group are obstruent stems – verbs like нести́ whose stem ends in an obstruent in both subsystems.

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13 To illustrate the nature of this variation using derivatives of пере́ть. The old pattern – complete mobility in the past and the passive participle – is preserved with заперё́ть: запер, заперлá, заперло, запере́т, заперлá, заперло, заперты́й. In the middle, оперё́ть has eliminated prefixal stress, and has even begun to allow the feminine stress on the root: опё́р, оперлá ~ опёрла, опёрло; опе́рт, оперлá ~ опёрта, опёрго, опёрты́й. Even further, пероперё́ть has gone over to stem stress in both past and participle: пере́перёра, пере́перёлa, пере́перёло; пере́перёта, пере́перёра, пере́перёро, пере́перёры́тый.
In the present, the thematic ligature |e| is added directly to a stem of the shape \{CVC_{<prs}>\}. The final consonant is C in the first singular and third plural (нелъ, нелът; нелъ, нелът) and C in the middle forms (нешъ; печъшъ). The stem of the past tense also ends (or could end) in an obstruent, and that fact occasions some collision between the final consonant of the stem and the consonants of the past tense and the infinitive. The collision is resolved in different ways. (a) Verbs whose present stem ends in a DENTAL STOP lose the stop throughout the past, and have an infinitive in -съ: вестъ 'lead' (бенъ, бенъшъ, велъ, велъд); местъ 'sweep' (метъ, метъшъ, мелъ, мелъд); плестъ 'weave' (плетъ, плетъшъ, плълъ, плълъд); гнестъ 'oppress' (гнетъ, [no past]); брестъ 'wander' (бренъ, бренъшъ, брелъ, брелъд); блестъ 'watch' (блюшъ, блющъшъ, блюлъ, блюлъд); гръстъ 'come' (3sg гръжъетъ, [no past]). (b) Verbs whose present stem ends in a LABIAL STOP keep the stop and lose the {l-} in the masculine singular past, and have an infinitive in -съ: скрестъ 'scrape' (скребъ, скребъшъ, скребъд); гръстъ 'row' (гребъ, гребъшъ, гребъд, гребълъд). (c) Verbs ending in a VELAR STOP keep that consonant and lose the MSC SG {l-} of the past, and have an infinitive in -ъ: влечъ 'draw' (влекъ, влечъшъ, влечъд, влечълъд); течъ 'flow' (текъ, течъшъ, течъд, [на]речъ 'speak' (рекъ, речъшъ, рѣкъ, -рекъд); пренебрежъ 'ignore' (пренебрежъ, пренебрежъшъ, пренебрежъд); беръ 'take care of' (берегъ, бережъшъ, берегъ, берегъд); стеръ 'guard' (стержъ, стержъшъ, стерё, стерегъд); толъ 'pound' (толкъ, толчъшъ, толокъ, толкъд); занръ 'harness' (запръгъ, запряжъшъ, запрягъ, запрягъд). (d) Verbs ending in a DENTAL FRICATIVE keep that consonant and lose the MSC SG {l-} of the past, and have an infinitive -тъ added to the fricative (a voiced fricative letter is kept in spelling): вестъ 'convey' (везъ, везъшъ, везъд, везълъд); ползътъ 'crawl' (ползъ, ползъшъ, ползъд, ползълъд); трястъ 'shake' (тясъ, тясъшъ, тясъд, тясълъд); пастъ 'tend' (пасъ, пасъшъ, пасъд, пасълъд). (Про-)нестъ 'read' (прочътъ, прочътъшъ, прочъд, прочълъд) and жъ 'burn' (жъ, жъшъ, жё, жлъд) have null grade and stress on endings in both the present and the past.

In stress, the predominant pattern is \{E : T\}, or thematic stress in the present, end stress in the past (though not in the masculine singular). End stress in the past also implies the unusual end stress in the infinitive as well (нестъ), except in velar stems. Root or mobile stress in the past precludes end stress in the infinitive.

Other stress patterns are possible, for individual verbs or small groups of verbs. Клъстъ 'swear' has \{M : T\}, or thematic stress in the present (клънъ, клънъшъ) and mobile stress in the past (клълъд, клълъ). Сесть 'sit' (съду, сълъд), лъсть 'climb' (леzu, лъзъшъ, леъ, лълъд), отвьрътъ 'open' (архаиc) have consistent
root stress: \{R : R\}. (In recent times сéч ‘hack’, originally \{R : T\}, has been shifting to the productive stress pattern in the past: сéк, сéкла, сéкля > сék, сékля, сékля.) For other verbs the stress pattern is \{R : T\}: ерýзть ‘gnaw’ (ерýзу, ерýзёшь, ерýз, ерýзла); красть ‘steal’ (крафу, крабёшь, крал, краля); клáсть ‘place’ (клáфу, клáёшь, клáл, клáла); пасть ‘fall’ (паду, падёшь, пал, пала) and (о)стрýть ’shear’ (острыгу, острижешь, острыг, острыгла). Прýсть ‘spin’ has thematic stress in the present (пряду, пряёшь) and variation in the past: like ерýзть, stem stress (прýла, implying reflexive прýлась, etc.) or, like клáсть, mobile past (прýлá, прýлó, implying end stress in the reflexives прýлáсь, прýлóсь). Мóчь ‘be able, possible’ is a unique verb with \{E : A\}: могу, можешь, могла, могли.

In obstruent stems with end stress in the past, the passive participle has the suffix \{-on-\}, with stress on the ending in the short forms (уÑес‘carry off’, унёс, унеслá, унёслó implies унесёт, унесён, унесённó) and on the participial suffix in the long form (унесённый). Stress stays on the root in the participle if the past is root-stressed: загрýзть ‘chew up’, загрýзла, загрýзен, загрýзена, загрýзено, загрýзённый.

3.2.7 Stress in verbs: retrospective

The stress of verbs has to be learned, class by class and, in the smaller, less productive, archaic classes, verb by verb. Yet some broad generalizations can be discerned. Verb classes can be divided into four large sets.

The first set consists of verbs with a conjugational suffix that is syllabic in both the past-infinitive and the present. Verbs in these classes allow only two stress patterns: \{R : R\} (трёбовать, трёбовал : трёбую, трёбую) and \{F : F\} (колдовать, колдовал : колдую, колдую). This limitation suggests that roots and suffixes are heavy. If either the root or suffix receives stress, stress remains there in both subsystems. Furthermore, stress can never go further towards the end of the word than a syllabic suffix.

The second set consists of verbs with an identifiable, syllabic suffix in the past-infinitive and the present. Verbs in these classes allow only two stress patterns: \{R : R\} (трёбовать, трёбовал : трёбую, трёбую) and \{F : T\} (колдовать, колдовал : колдую, колдую). This limitation suggests that roots and suffixes are heavy. If either the root or suffix receives stress, stress remains there in both subsystems. Furthermore, stress can never go further towards the end of the word than a syllabic suffix.

The third set is the array of heterogeneous verbs that have no conjugational suffix and stem shapes that do not remain stable between the past-infinitive and present subsystems. Some of these verbs have \{R : R\} stress, like вить, вбю, or
stress, a minor variant that occurs by default when the present stem lacks a vowel, such as шить, шила, шили, шью, шьешь. Interestingly, these verbs with stems that are minimal ("hyposyllabic") or inconsistent over the two subsystems allow mobile stress in the past (along with thematic stress in the present), or mobile stress in the past occurs only with such verbs.

The fourth group is the consonant-stem verbs like несёт, пёть, which have the same, stable, canonical root structure {CVC-} in both subsystems. These verbs have a variety of stress patterns, but the most frequent is {E : T}, or end stress in the past (несё, несла, неслад) correlated with thematic stress in the present (несёт, несёшь). It is as if the stable structure requires stability in the placement of stress (rather than mobility) and the absence of an intervening suffix encourages the stress to go beyond the root out onto the endings.

Thus, roots and suffixes are heavy and hold stress towards the front of the word. Absence of a suffix encourages stress after the stem. Mobility, in either past or present, is tolerated by those verb classes in which there is instability in the stem shape between the two subsystems.

In the passive participle, root stress occurs when other forms have root stress. Mobile stress occurs if the participle is {-t-} and if the verb has mobile stress in the past: нёсёт, начат, начато. End stress occurs in some verb classes that add the suffix {-on-}, namely {CVC-i : CVC-[i]} and consonant stems ({{CVC- : CVC-[e]}: разгромлен, унесен, provided stress is thematic in the present. Otherwise, the productive stress pattern is stress on the syllable preceding the suffix: написан, оторван, удержан, рассмотрен 'examined', отложан 'rested', натянут 'stretched', оттолкнут 'pushed away', уколот 'punctured'.

3.2.8 Irregularities in conjugation

Irregularities and exceptions of conjugation are limited in Russian.

The most archaic and irregular verbs are есть 'eat' and дать 'give'. The ancient athematic ending is preserved in the first-person singular, and the other two forms of the singular are unusual: ем, еишь, ест; га́м, га́нь, га́ет. The plural is built on a more recognizable stem. Дать follows the i-Conjugation in the first- and second-person plural, but not in the third plural (гайтм, гайите, but гайтъ), while есть follows the i-Conjugation throughout the plural (еги́м, егите, егят). The past-tense forms are regular.

Быть uses a different stem for the past and future (and no stem in the present), but the individual forms are not irregular. The past exhibits consistent mobility: был, была, были, and in the negative, не был, не была, не было, не были. The conjugation of the future is regular if it is taken to be a consonant stem: 1SG бу́ду, 2SG бу́дешь, 3SG бу́дет, 1PL бу́дем, 2PL бу́дете, 3PL бу́дут.
### Table 3.9 Conjugation classes and secondary imperfectives

<table>
<thead>
<tr>
<th>Perfective Past-infinitive</th>
<th>Perfective Present</th>
<th>Imperfective (Present)</th>
<th>Infinitive</th>
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<td>{CVC-i-}</td>
<td>{CVC-i</td>
<td>i}</td>
<td>{CVC'-aj</td>
</tr>
<tr>
<td></td>
<td></td>
<td>{CVC()/ivaj</td>
<td>e}</td>
</tr>
<tr>
<td>{CC-i-}</td>
<td>{CC-i</td>
<td>i}</td>
<td>{CC-e-vaj</td>
</tr>
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<td>{CVC-e-}</td>
<td>{CVC-i</td>
<td>i}</td>
<td>{CVC'-ivaj</td>
</tr>
<tr>
<td>{CVČ-a-}</td>
<td>{CVČ-i</td>
<td>i}</td>
<td>{CVČ-ivaj</td>
</tr>
<tr>
<td>{CVC-a-}</td>
<td>{CVC-aj</td>
<td>e}</td>
<td>{CVC'-ivaj</td>
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<td>e}</td>
<td>{CVC-e-vaj</td>
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<tr>
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<td>{CVC-uj</td>
<td>e}</td>
<td>{CVC-ov'-ivaj</td>
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<td>{CVC-n</td>
<td>e}</td>
<td>{CVC'-ivaj</td>
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<td>{CVC'-e}</td>
<td>{CVC'-ivaj</td>
<td>e} ~ {CVC'-aj</td>
</tr>
<tr>
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<td>{CVC-</td>
<td>e}</td>
<td>{CVC'-ivaj</td>
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<td>{CC</td>
<td>e}</td>
<td>{CVC∞-C0-ivaj</td>
</tr>
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Table 3.9 (cont.)

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<th>IMPERFECTIVE (PRESENT)</th>
<th>INFINITIVE</th>
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<td>]</td>
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<td>CN-[e</td>
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<td>]</td>
<td>CVR0-ivaj-[e</td>
</tr>
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<td>CR-[e</td>
<td>]</td>
<td>CV~C0-ivaj-[e</td>
</tr>
<tr>
<td>CVC-</td>
<td>CVC-aj-[e</td>
<td>]</td>
<td>CVC-aj-[e</td>
</tr>
</tbody>
</table>

∞ = alternation of vowel grades null~{i} in root
{...-ivaj-[e|]} = boldface indicates imperfectivizing suffix (present tense)

A very small number of irregularities involves unusual pairings of allostems or occasionally, sub-allostems. Спать and гнать have a past-infinitive stem in {CCa-}, and they have the mobile past-tense stress typical of such verbs: спать 'sleep', спал, спалá, спа́ли, спалó; гнать 'pursue', гнал, гналá, гнáли, гналó. The present tense of these verbs switches to I-Conjugation: сплю, спишь; гонё, гонишь. The unusual verb зóбиться 'surge' should belong to the I-Conjugation, to judge by its infinitive, but forms its preferred present in |e|, with C: зóбляться. Ушибать 'bruise', on the basis of its infinitive and participles (ушибший, ушибленный), implies a stem {CVC-i} of the I-Conjugation, but it behaves like an obstruent stem with {CVC-[e]} in the present (ушибу, ушибешь) and past (ушиб, ушибла). Обязывать 'obligate' conjugates either as expected {CVC-aj-[e|]} (обязываешь) or as unexpected {CVC-uj-[e|]} (обязуешься).

Бежать 'run, flee' looks like the type {CVC-i-a : CVC-i-[i]-} in the “middle” forms of the present-tense conjugation – бежáть, бежáте – but the first singular and third plural rely on an allostem {CVC0-[e]-}: бегу, бегут. Хотеть ‘want’ has a singular in |e| with C throughout (хочу, хочешь); the plural has the thematic vowel |i|, implying C (хотýм, хотûте, хотûт).

3.2.9 Secondary imperfectivization

While derivational processes in general are not treated here, it is nevertheless useful to illustrate the patterns of suffixation used to make secondary imperfectives from prefixed perfectives (see Table 3.9, following the verb classes of Table 3.3). There are different suffixes. All imperfectivizing suffixes put the resulting verbs in the class of {a- : -aj-[e]}.
Simplest and oldest is plain \{\-a\- : \-aj\-\{e\}\}, which was used in the oldest layer of derivation, old unprefixed pairs \{лиши́ть/лишать ‘deprive’; рещи́ть/реши́ть ‘decide’, броси́ть/бросать ‘throw’\}. It is still used with many 1-Conjugation verbs, with which it now implies \(C\) (пра́вить/пра́влять ‘direct’). For this class of verbs, this older option is in competition with the more recent and productive strategy (see below). This suffix, with \(C^0\), is used by obstruent stems \{-пё́ть/-пёлать ‘bake’; -жáть/-жимáть ‘squeeze’\}.

A variant with a preceding \[\-\] that is, \{-va\- : -va\-\{e\}\} – is used when the perfective stem ends in a vowel: with \{CVC-e- : CVC-e\{j\}\} (попéть/попевáть) and with asuffixal verbs (бýть/-бивáть; гýть/-гывáть; -гáть/-гавáть). A variant is \{CC-eva- : CC-evaj\-\{e\}\}, for the few roots of the shape \{CC-i- : CC-\{i\}\}: затмéть/ затмевáть ‘eclipse’.

The newest and most productive strategy, which yields derived verbs of the type \{iva- : -iva\-\{e\}\}, is applied to: 1-Conjugation verbs (молóтить/-мóлачивать ‘thresh’), with a vowel alternation and (usually) \(C\) grade in the root-final consonant; verbs of the type \{CVC-a- : CVC\-\{i\}\}, with \(C^0\) maintained (пíсáть/-писывáть ‘write’); verbs of the type \{CVC-a- : CVC-aj\-\{e\}\}, with \(C^0\) maintained (гéлать/ -гéлывать ‘do’); and perhaps semelfactives of the form \{CVC-nu- : CVC-n\-\{e\}\} (хлóпнуть/-хлóпывáть ‘clap’). In these cases the original conjugational suffix disappears (although with \{CVC-i- : CVC-\{i\}\} the suffix leaves a trace in the mutation to \(C\)). This suffix is applied to \{CVC-ová- : CVC-új\-\{e\}\} verbs, when it gives \{-óv-iva- : -óv-iva\-\{e\}\} (торго́вáть/-торго́вывáть ‘trade’). In this instance, the original conjugational suffix remains.

### 3.3 Declension of pronouns

#### 3.3.1 Personal pronouns

The declension of personal pronouns (first, second, and reflexive) and of interrogative pronouns is idiosyncratic in various respects (see Table 3.10).

The reflexive pronoun declines like the second singular pronoun, except for the fact that it does not have a nominative form. All personal pronouns and the animate interrogative ктó use the genitive form for the accusative (\(\S\S\)3.6.1, 4.1.6); the inanimate interrogative чтó does not. The instrumentals мнóй, тóбо́й, собо́й allow a variant with \{-у\} (мнóё, etc.) in the formal register, if the pronoun is prosodically autonomous, for example as a predicate argument ([3]) or the agent of a passive ([4]):


Boredom ever more took hold of me.
Table 3.10 Declension of personal and interrogative pronouns

<table>
<thead>
<tr>
<th>NOM</th>
<th>1SG</th>
<th>2SG</th>
<th>RFL</th>
<th>1PL</th>
<th>2PL</th>
<th>INTG AN</th>
<th>INTG IN</th>
</tr>
</thead>
<tbody>
<tr>
<td>NOM</td>
<td>я</td>
<td>ты</td>
<td>—</td>
<td>мы</td>
<td>ви</td>
<td>кто</td>
<td>что</td>
</tr>
<tr>
<td>ACC</td>
<td>=GEN</td>
<td>=GEN</td>
<td>=GEN</td>
<td>=GEN</td>
<td>=GEN</td>
<td>=GEN</td>
<td>=NOM</td>
</tr>
<tr>
<td>GEN</td>
<td>меня</td>
<td>тебя</td>
<td>себя</td>
<td>нас</td>
<td>вас</td>
<td>кого</td>
<td>чего</td>
</tr>
<tr>
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<td>мнё</td>
<td>тебё</td>
<td>себё</td>
<td>нём</td>
<td>вам</td>
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<tr>
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<td>мнё</td>
<td>тебя</td>
<td>себе</td>
<td>нас</td>
<td>вас</td>
<td>ком</td>
<td>чём</td>
</tr>
<tr>
<td>INS</td>
<td>мнóй</td>
<td>тóбóй</td>
<td>собóй</td>
<td>нáми</td>
<td>вáми</td>
<td>кéм</td>
<td>чéм</td>
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</tbody>
</table>

Table 3.11 Third-person pronouns

<table>
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<td>о́нó</td>
<td>о́нá</td>
<td>о́нй</td>
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<td>=GEN</td>
<td>=GEN</td>
<td>=GEN</td>
</tr>
<tr>
<td>GEN</td>
<td>егó</td>
<td>её</td>
<td>нё (нёй)</td>
<td>йх</td>
</tr>
<tr>
<td>DAT</td>
<td>емú</td>
<td>е́й</td>
<td>нéй</td>
<td>йм</td>
</tr>
<tr>
<td>LOC</td>
<td>нё́м</td>
<td>нéй</td>
<td>нíх</td>
<td></td>
</tr>
<tr>
<td>INS</td>
<td>йм</td>
<td>нíм</td>
<td>е́й</td>
<td>нéй</td>
</tr>
</tbody>
</table>

That is how the problem used to get solved by me.

3.3.2 Third-person pronouns

Third-person pronouns, which by origin are demonstratives, distinguish gender, and have a declension similar to that of demonstratives (§3.3.3).

Like personal pronouns, third-person pronouns always express the accusative by using the genitive (or “animate”) form, even when they do not refer to animates (§4.1.6). Third-person pronouns occur with a preceding linking consonant «н» when they are governed by a preposition. The feminine instrumental form allows a somewhat old-fashioned variant нéй with prepositions, which occurs more frequently than мно́ю:14

He disappeared with her.

Between her and me there arose a close friendship.

14 Zalizniak 1977[a]:65. In text counts in the conservative usage of memoirist S. Golitsyn (Zapiški u tselevshego [Moscow, 1990]), нею was actually more frequent, by 29 хх to 27 хх, with неё, с, наг, пог. In the Uppsala Corpus, неё predominated over нею with these prepositions (неё 157 хх/191 хх = 82%). On www.lib.ru <15.1X.02>, неё with these prepositions occurred 80 percent of the time (неё 23,144 хх / 28,795 хх total).
Table 3.12 Declension of ́stot, ́tót

<table>
<thead>
<tr>
<th></th>
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<th>NT</th>
<th>FEM</th>
<th>PL</th>
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</thead>
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<td>́stot ~ ́tót</td>
<td></td>
<td>́sto ~ ́tó</td>
<td>́sta ~ ́tá</td>
<td>́sti ~ ́té</td>
</tr>
<tr>
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<td>=NOM&lt;IN&gt; ~ GEN&lt;AN&gt;</td>
<td>=NOM</td>
<td>́stu ~ ́tú</td>
<td>=NOM&lt;IN&gt; ~ GEN&lt;AN&gt;</td>
<td></td>
</tr>
<tr>
<td>GEN</td>
<td>́stogo ~ ́torgó</td>
<td>́stoy ~ ́tóy</td>
<td>́stix ~ ́tóx</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DAT</td>
<td>́stomy ~ ́tomyí</td>
<td>́stoy ~ ́tóy</td>
<td>́stim ~ ́tóm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LOC</td>
<td>́stom ~ ́tóm</td>
<td>́stoy ~ ́tóy</td>
<td>́stix ~ ́tóx</td>
<td></td>
<td></td>
</tr>
<tr>
<td>INS</td>
<td>́stim ~ ́tóx</td>
<td>́stoy ~ ́tóy</td>
<td>́stimi ~ ́tóx</td>
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<td></td>
</tr>
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</table>

Table 3.13 Declension of kakóú (takóú)

<table>
<thead>
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<th>NT</th>
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<td>kakóe</td>
<td>kakáé</td>
<td>kakíé</td>
<td></td>
</tr>
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<td>ACC</td>
<td>=NOM&lt;IN&gt; ~ GEN&lt;AN&gt;</td>
<td>=NOM</td>
<td>kakúy</td>
<td>=NOM&lt;IN&gt; ~ GEN&lt;AN&gt;</td>
<td></td>
</tr>
<tr>
<td>GEN</td>
<td>kakógo</td>
<td>kakóú</td>
<td>kakíú</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DAT</td>
<td>kakómuy</td>
<td>kakóbí</td>
<td>kakíbí</td>
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</tr>
<tr>
<td>LOC</td>
<td>kakóém</td>
<td>kakóbí</td>
<td>kakíbí</td>
<td></td>
<td></td>
</tr>
<tr>
<td>INS</td>
<td>kakíém</td>
<td>kakóbí</td>
<td>kakíbí</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

In informal Russian y něí is possible instead of y něé when it has weak stress ([7]).

That face of hers was of astounding beauty.

3.3.3 Determiners (demonstrative, possessive, adjectival pronouns)
Determiners, like adjectives, agree with a modified noun in gender–number and case. The declensions of the two demonstratives, proximate ́stot and distal ́tót (Table 3.12) are similar, except for the vowel of the ending in the instrumental singular and the plural. Determiners express animacy depending on the reference of the noun they modify (or refer to). If the noun is animate and either masculine singular or plural of any gender, the demonstrative uses the genitive form for the accusative. These demonstratives and all other elements with adjectival declension allow an archaic variant with an extra syllable in the instrumental feminine singular: ́stoto.

Takóú ‘such’ and kakóú ‘what kind of’ have purely adjectival declension (§3.5.1).

15 In Golitsyn and the Uppsala Corpus, there was a total of 313 xx y née against 6 xx y něí, or 98 percent. On www.lib.ru <15.IX.02>, y née occurred 95 percent of the time (y née 14,600 xx / 15,386 xx total).
Table 3.14 Declension of нёкий

<table>
<thead>
<tr>
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<td>нёкое</td>
<td>нёкая</td>
<td>нёкые</td>
<td>нёкие</td>
</tr>
<tr>
<td>ACC</td>
<td>NOM&lt;IN&gt; ~ GEN&lt;AN&gt;</td>
<td>NOM&lt;IN&gt; ~</td>
<td>NOM&lt;IN&gt;</td>
<td>NOM&lt;IN&gt;</td>
<td>NOM&lt;IN&gt;</td>
</tr>
<tr>
<td>GEN</td>
<td>(нёкого) нёкоего</td>
<td>нёкой ~ нёкоей</td>
<td>нёким</td>
<td>нёками</td>
<td>нёкоим</td>
</tr>
<tr>
<td>DAT</td>
<td>(нёкому) нёкоему</td>
<td>нёкой ~ нёкоей</td>
<td>нёким</td>
<td>нёками</td>
<td>нёкоим</td>
</tr>
<tr>
<td>LOC</td>
<td>(нёком) нёкоем</td>
<td>нёкой ~ нёкоей</td>
<td>нёким</td>
<td>нёками</td>
<td>нёкоим</td>
</tr>
<tr>
<td>INS</td>
<td>нёким (нёкоим)</td>
<td>нёкой ~ нёкоей</td>
<td>нёким</td>
<td>нёками</td>
<td>нёкоим</td>
</tr>
</tbody>
</table>

^o = innovative, not standard  
^† = archaic

Table 3.15 Declension of нáя (вáй), твóй (мóй, свóй)

<table>
<thead>
<tr>
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<th>MSC=NT</th>
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<th>FEM</th>
<th>PL</th>
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<tr>
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<td>нáя ~ твóй</td>
<td>нáше ~ твóё</td>
<td>нáша ~ твóй</td>
<td>нáши ~ твóй</td>
<td>нáшими ~ твóй</td>
</tr>
<tr>
<td>ACC</td>
<td>NOM&lt;IN&gt; ~ GEN&lt;AN&gt;</td>
<td>NOM&lt;IN&gt; ~</td>
<td>NOM&lt;IN&gt;</td>
<td>NOM&lt;IN&gt;</td>
<td>NOM&lt;IN&gt;</td>
</tr>
<tr>
<td>GEN</td>
<td>нáшего ~ твóегó</td>
<td>нáшей ~ твóёй</td>
<td>нáшими ~ твóй</td>
<td>нáшими ~ твóй</td>
<td>нáшими ~ твóй</td>
</tr>
<tr>
<td>DAT</td>
<td>нáшему ~ твóем́й</td>
<td>нáшей ~ твóёй</td>
<td>нáшим ~ твóй</td>
<td>нáшим ~ твóй</td>
<td>нáшим ~ твóй</td>
</tr>
<tr>
<td>LOC</td>
<td>нáшем ~ твóём</td>
<td>нáшей ~ твóёй</td>
<td>нáшим ~ твóй</td>
<td>нáшим ~ твóй</td>
<td>нáшим ~ твóй</td>
</tr>
<tr>
<td>INS</td>
<td>нáшим ~ твóйм</td>
<td>нáшей ~ твóёй</td>
<td>нáшим ~ твóй</td>
<td>нáшим ~ твóй</td>
<td>нáшим ~ твóй</td>
</tr>
</tbody>
</table>

The indefinite existential adjective нёкий, stylistically old-fashioned, has a declension containing some archaisms (e.g., MSC GEN SG нёкоего) alongside adaptations to a more productive pattern of declension (e.g., LOC PL нёких for older нёкоих).

The elaborated demonstratives 5дакий, 5такий ‘such a’ decline just like any adjective whose stem ends in the consonant [k] (грóмкий ‘loud’).

3.3.4 Possessive adjectives: 1SG мой, 2SG твой, 1PL наш, 2PL ваш, reflexive свой, interrogative чей

Possessive adjectives of personal pronouns – 1SG мой, 2SG твой, 1PL наш, 2PL ваш, reflexive свой – decline in a fashion similar to стóг (Table 3.15). Бáш declines like нáя, мой and свой like твóй. To express possession by a third person, Russian uses the etymological genitive forms of the third-person pronoun MSC=NT егó, FEM еë, PL úx, invariant forms that do not agree in gender–number and case with the modified noun. (The true adjective úхнйiй is substandard.) There are some differences between егó, еë, úx used as genitives and used as possessives. As possessives, егó, еë, úx do not elicit the ligature {н} after prepositions:
\[\begin{array}{|l|c|c|c|c|}
\hline
\textbf{Table 3.16 Declension of чéй} \\
\hline
\textbf{MSC} & \textbf{MSC=NT} & \textbf{NT} & \textbf{FEM} & \textbf{PL} \\
\hline
\textbf{NOM} & чéй & чьéй & чьéй & чьéй \\
\textbf{ACC} & =\text{NOM}_{<\text{IN}>} \sim \text{GEN}_{<\text{AN}>} & =\text{NOM} & чьéй & =\text{NOM}_{<\text{IN}>} \sim \text{GEN}_{<\text{AN}>} \\
\textbf{GEN} & чьéго & чьёй & чьёй & чьéх \\
\textbf{DAT} & чьéмый & чьёй & чьёй & чьéм \\
\textbf{LOC} & чьéм & чьёй & чьёй & чьéй \\
\textbf{INS} & чьёим & чьёй & чьёй & чьéй \\
\hline
\end{array}\]

\[\begin{array}{|l|c|c|c|c|}
\hline
\textbf{Table 3.17 Declension of вéсь, céй} \\
\hline
\textbf{MSC} & \textbf{MSC=NT} & \textbf{NT} & \textbf{FEM} & \textbf{PL} \\
\hline
\textbf{NOM} & всé ~ сéй & всé ~ сиé & всé ~ сиё & всé ~ сиё \\
\textbf{ACC} & =\text{NOM}_{<\text{IN}>} \sim \text{GEN}_{<\text{AN}>} & =\text{NOM} & всé ~ сиё & =\text{NOM}_{<\text{IN}>} \sim \text{GEN}_{<\text{AN}>} \\
\textbf{GEN} & всéй ~ сёгó & всё ~ сёй & всё ~ сёй & всé ~ сёй \\
\textbf{DAT} & всéмý ~ сёмý & всё ~ сёй & всё ~ сёй & всé ~ сёй \\
\textbf{LOC} & всéм ~ сём & всё ~ сёй & всё ~ сёй & всé ~ сёй \\
\textbf{INS} & всéм ~ сём & всё ~ сёй & всё ~ сёй & всé ~ сёй \\
\hline
\end{array}\]

\[\begin{array}{|l|c|c|c|c|}
\hline
\textbf{Table 3.18 Declension of cåм} \\
\hline
\textbf{MSC} & \textbf{MSC=NT} & \textbf{NT} & \textbf{FEM} & \textbf{PL} \\
\hline
\textbf{NOM} & cåм & сåмó & сåмá & сåмì \\
\textbf{ACC} & =\text{NOM}_{<\text{IN}>} \sim \text{GEN}_{<\text{AN}>} & =\text{NOM} & сåмó (сåмó) & =\text{NOM}_{<\text{IN}>} \sim \text{GEN}_{<\text{AN}>} \\
\textbf{GEN} & сåмóгó & сåмóй & сåмóй & сåмóй \\
\textbf{DAT} & сåмóмý & сåмóй & сåмóй & сåмóй \\
\textbf{LOC} & сåмóм & сåмóй & сåмóй & сåмóй \\
\textbf{INS} & сåмóм & сåмóй & сåмóй & сåмóй \\
\hline
\end{array}\]

\[\dagger = \text{archaic}\]

в их комнате ‘in their room’ but в ней ‘inside them’, от него окружения ‘from its surroundings’ but от него ‘from it’. In event nominals, for arguments analogous to subjects of intransitive predicates, only possessives, not true genitive pronouns, are possible: \{ее ~ нáш\} прихож ‘{her ~ our} arrival’, о \{егó ~ моё\} отчáнья ‘about {his ~ my} despair’ but not *прихож меня, *отчáнья меня. The fact that егó, еë, ых are used here suggests that they are analogous to possessive adjectives. The interrogative (relative, indefinite) possessive чéй ‘whose’ has a declension similar to the demonstratives (Table 3.16).
3.3.5 Declension of *весь, сам, один *

Весь ‘all’ and the old-fashioned demonstrative *cей* have a basically demonstrative declension, with soft stems (Table 3.17). The emphatic adjective *съм* (Table 3.18) and the adjectival numeral *один* (Table 3.19) also have demonstrative declension.

3.4 Quantifiers

Quantifiers include cardinal numerals, collectives, and approximate pronominal quantifiers (e.g., *столько* ‘so many’). Some are declined like nouns, some like demonstratives (see Table 3.20). Ordinals, which decline as ordinary adjectives (except *трётий*), will be given for reference in parentheses in the discussion below.

Paucal numerals: Paucals, comprising *мсн=нт гва, фм гва* ‘two’, *тръ* ‘three’, and *четвъре* ‘four’, use the case endings of plural adjectives, merging genitive and locative, but have idiosyncratic stems: *гвъ-*, *тръ-, четвъръ*- (but *инс четвъръмъя*). Ordinals are *вторъй* ‘second’ (different stem, ordinary declension), *трътий*
‘third’ (mixed adjectival declension: Table 3.26), четвёртый ‘fourth’ (ordinary declension).


Decades: The first three decades have the pattern of пять, also with end stress, десять (десятий) ‘ten’, десятьи, gen=dat=loc, десятьб, gen=ins, двадцать (двадцатый) ‘twenty’, двадцатй, gen=dat=loc, тринадцать (тринадцатый) ‘thirty’, тридцатй, gen=dat=loc. The decades from ‘fifty’ through ‘eighty’, as compounds, decline both parts like nouns of Declension<IIIa>: пятьдесят (пятидесятый) ‘fifty’, пятидесяти, gen=dat=loc, шестьдесят (шестьдесятый) ‘sixty’, семьдесят (семьдесятый) ‘seventy’, восемьдесят (восемьдесятй) ‘eighty’ (ins восемьдесятъ ~ восемьдесятъ). The decade component ends in a hard consonant in the nominative. In standard Russian, both parts should have a distinctively instrumental form (пятидесятью), but the form is sometimes partially analogized to the other oblique forms in the unedited Russian of the web, on the order of 10 percent (low 5% восемьдесятъ, high 13% семи́дцать <15.IX.02>.

Round: Certain “round” numerals have a minimal declension, with one form for the nominative and accusative, another for the remaining cases: nom=acc стó, gen=dat=loc=ins стá ‘hundred’, сорок, сорок ‘forty’, девя́носто, девя́нста ‘ninety’, and полтораста, gen=dat=loc=ins полтораста ‘a hundred and a half’, the last two being etymologically derived from стó. ‘One and a half’ has the same pattern, though additionally the nominative distinguishes gender, like the pascal ‘two’ (misc=nt nom=acc полтора, fem nom=acc полторы, gen=dat=loc=ins полторы).

Hundreds: The hundreds other than стó itself – двести ‘two hundred’, триста ‘three hundred’, четвёреста ‘four hundred’, пятьсот ‘five hundred’, шестьсот ‘six
hundred’, семьсот ‘seven hundred’, восемьсот ‘eight hundred’, девятьсот ‘nine hundred’ – are compounds which should decline both parts. The oblique forms of the low hundreds in less-than-standard Russian sometimes use forms analogically based on the genitive; [8–11] were attested on the web <20.XII.01> with substandard forms (marked “§”).

[8] Число пострадавших приблизилось к двумстам (<DAT>) (§двухстам,<DAT>). The number of victims approached two hundred.

[9] Мы говорили о двухстах (<LOC>) (§двахсот,<GEN=LOC>) нахско-германских лексических параллелях. We remarked on two hundred Nakh-Germanic lexical parallels.

[10] Мейер может работать с более чем двумястами (<INS>) (§двухстами,<INS>) модемами. The mailer program can work with more than two hundred modems.

[11] Это было не трудно, но для Вульфа, с его тремястами (<INS>) восьмьдевяносто (<INS> §трехстами,<INS> восьмидесято,<INS>) фунтами. <...> That was not difficult, but for Wolf, with his three hundred eighty pounds, <...> That was not difficult, but for Wolf, with his three hundred eighty pounds, <...>

The ordinals of the hundreds are built from genitives: трёхсотый ‘three hundredth’, шестисотый ‘six hundredth’, etc.

Collectives: Collective numerals (два ‘twosome’, трое ‘threesome’, четверо ‘foursome’) have a plural adjectival declension in oblique cases: GEN=LOC четверых, DAT четверым, INS четверьми.

Pronominal approximates: Approximates such as сколько ‘how many’ follow the declensional strategy of collectives: GEN=LOC скольких, DAT скольким, INS сколькими. ‘Both’, which distinguishes gender throughout, declines in this fashion (MSC=NT NOM=ACC оба, GEN обоих; FEM NOM обе, fem GEN обеих, and so on).

Тысяча ‘thousand’ and миллион ‘million’ decline like ordinary nouns. Тысяча has two instrumental forms, nominal тысячей and numeral-like тысячью (§4.3.4).

3.5 Adjectives

3.5.1 Adjectives

Long ago, adjectives had a “short” declensional ending identical to those of substantives; the “long” forms are an innovation. The process of replacing short forms by long forms has been a gradual one, extending over a thousand years.
Table 3.21 Declension of adjectives: красный ‘beautiful’, далеко ‘far’

<table>
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<th>FEM</th>
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<td>NOM&lt;IN&gt; ~ GEN &lt;AN&gt;</td>
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</tbody>
</table>

<table>
<thead>
<tr>
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<th>MSC=NT</th>
<th>NT</th>
<th>FEM</th>
<th>PL</th>
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<tr>
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<td>далеко</td>
<td>NOM</td>
<td>далеко</td>
<td>далеко</td>
<td>далеко</td>
</tr>
<tr>
<td>ACC</td>
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<td>NOM&lt;IN&gt; ~ GEN &lt;AN&gt;</td>
<td>NOM&lt;IN&gt; ~ GEN &lt;AN&gt;</td>
<td>NOM&lt;IN&gt; ~ GEN &lt;AN&gt;</td>
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<td>далеко</td>
<td>NOM&lt;IN&gt; ~ GEN &lt;AN&gt;</td>
<td>NOM&lt;IN&gt; ~ GEN &lt;AN&gt;</td>
<td>NOM&lt;IN&gt; ~ GEN &lt;AN&gt;</td>
<td></td>
</tr>
<tr>
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<td>далеко</td>
<td>NOM&lt;IN&gt; ~ GEN &lt;AN&gt;</td>
<td>NOM&lt;IN&gt; ~ GEN &lt;AN&gt;</td>
<td>NOM&lt;IN&gt; ~ GEN &lt;AN&gt;</td>
<td></td>
</tr>
<tr>
<td>LOC</td>
<td>далеко</td>
<td>NOM&lt;IN&gt; ~ GEN &lt;AN&gt;</td>
<td>NOM&lt;IN&gt; ~ GEN &lt;AN&gt;</td>
<td>NOM&lt;IN&gt; ~ GEN &lt;AN&gt;</td>
<td></td>
</tr>
<tr>
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<td>далеко</td>
<td>NOM&lt;IN&gt; ~ GEN &lt;AN&gt;</td>
<td>NOM&lt;IN&gt; ~ GEN &lt;AN&gt;</td>
<td>NOM&lt;IN&gt; ~ GEN &lt;AN&gt;</td>
<td></td>
</tr>
</tbody>
</table>

By the nineteenth century, the long forms had won out in all contexts except the strictly predicative context, the only context in which the original nominal “short” forms are still preserved (see §5.2).

Long-form adjectives decline like demonstratives, except that adjectives have heavy (VC or VCV) endings in the nominative and accusative. Adjectives can have either hard stems (Table 3.21, красный ‘red’) or soft stems (Table 3.21, далеко ‘far’). Soft-stem adjectives differ from hard-stem adjectives only in the spelling of vowel letters. In certain adjectives the first or only vowel of the endings is stressed in all forms, as in MSC NOM SG молодой ‘young’, GEN=LOC PL молодых, etc.; if so, the MSC NOM SG form is -ый: MSC NOM SG молодой. There is no distinction of gender in the plural declension of adjectives. Animacy is expressed in the masculine singular and in the plural, by using the genitive form for the accusative (§4.1.6). Adjectives and participles allow an archaic, poetic instrumental form: fem INS SG красною, далекою, ударившою.

Particples are declined as adjectives. Participles are formed using certain characteristic consonants – «щ» in the present tense and «ш» in the past tense – and have the appropriate spellings of vowel letters after these consonants: «и» not «ы», «е» not «о» or «у» and «а».

In participles, reflexive verbs use the full syllable of the reflexive affix, both after consonants (MSC=NT SG отдава́ясь ‘surrendering to’, fem INS SG ударившись ‘having bumped against’) and after vowels (MSC=NT GEN SG отдава́вшиегося, ударившегося).
### Table 3.22 Declension of participles: ὀργάζομαι ‘giving away’, уда́ривший ‘having hit’

<table>
<thead>
<tr>
<th></th>
<th>MSC</th>
<th>MSC=NT</th>
<th>NT</th>
<th>FEM</th>
<th>PL</th>
</tr>
</thead>
<tbody>
<tr>
<td>NOM</td>
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<td>отда́ю́щие</td>
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</tr>
<tr>
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<td>=NOM</td>
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<td>NOM&lt;IN&gt; ~</td>
<td></td>
</tr>
<tr>
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<td>отда́ю́щей</td>
<td>отда́ю́щих</td>
<td></td>
<td></td>
</tr>
<tr>
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<td>отда́ю́щей</td>
<td>отда́ю́щим</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LOC</td>
<td>отда́ю́щем</td>
<td>отда́ю́щей</td>
<td>отда́ю́щим</td>
<td></td>
<td></td>
</tr>
<tr>
<td>INS</td>
<td>отда́ю́щим</td>
<td>отда́ю́щей</td>
<td>отда́ю́щими</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 3.5.2 Predicative (“short”) adjectives

The short-form adjectives, which were originally nominative case forms identical to those of nouns, have no ending in the masculine singular (or -\(º\)), -\(o\) in the neuter singular, -\(a\) in the feminine, and -\(i\) in the plural (spelled «Ы» with hard stems). Many adjectives were suffixed. Productive suffixes were *\(m\)\(-\(n\)-\) and *\(k\)-\(k\)-\). The jer of these suffixes would have been lost in all forms except the masculine nominative singular, when the jer was vocalized. The synchronic result is that the masculine nominative singular of short adjectives takes full-grade vocalism. The suffix -\(k\)-\(k\)- usually takes <\(o\)> and leaves the consonant unaffected (\(C^0\) grade): узок, крепок (but хоро́кий ‘bitter’, хоро́к). The suffix -\(n\)-, by virtue of its *\(b\), once palatalized the preceding consonant. The earlier \(C^l\) that resulted is still visible in, for example, MSC SG short гурен ‘bad’, тёмен ‘dark’, or, under stress, умён. However, since all paired consonants except *\(l\) have lost palatalization before the [n], the consonants are no longer palatalized in other forms (the restricted \(C^{ra}\) grade): дурной, тёмный, though [n] is maintained, де́льный ‘effective’.

The small number of stems that ended in an etymological cluster \(CR\) have been under pressure to develop an ana
tptic vowel in the masculine singular short (nominative) form, when no vowel follows the cluster. Some develop full-grade vocalism: полон ‘full’, светел ‘light’, чёрен ‘dark’, хитёр ‘clever’, while остёр ~ остр
Table 3.23 Stress in short-form adjectives

<table>
<thead>
<tr>
<th></th>
<th>{R}</th>
<th>{RM}</th>
<th>{M}</th>
<th>{ME}</th>
<th>{(M/E)}</th>
<th>{E}</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSC</td>
<td>у́оти́н ✀</td>
<td>бу́рн ✀</td>
<td>ла́дн ✀</td>
<td>гръ́зен ✀</td>
<td>кра́сн ✀</td>
<td>све́й ✀</td>
</tr>
<tr>
<td>NT</td>
<td>у́отн ✀</td>
<td>бу́рн ✀</td>
<td>ла́дн ✀</td>
<td>гръ́зен ✀</td>
<td>кра́сн ✀</td>
<td>све́й ✀</td>
</tr>
<tr>
<td>PL</td>
<td>у́отны ✀</td>
<td>бу́рны ✀</td>
<td>ла́дны ✀</td>
<td>гръ́зны ✀</td>
<td>кра́сны ✀</td>
<td>све́й ✀</td>
</tr>
<tr>
<td>FEM</td>
<td>у́отна ✀</td>
<td>бу́рна ✀</td>
<td>ладна́ ✀</td>
<td>гръ́зна ✀</td>
<td>кра́сна ✀</td>
<td>све́га ✀</td>
</tr>
</tbody>
</table>

\{XY\} = historically mixed type combining paradigm \(X\) and paradigm \(Y\)

\{(XY)\} = historically mixed type combining paradigm \(X\) and paradigm \(Y\), contribution of \(X\) less prominent

á . . . é (etc.) = alternate stresses

'sharp' and шу́стр ~ шу́стр 'bright, sharp' have variation. Пё́стрый 'variegated' maintains the cluster (нё́стр).

Passive participles have a single [n] in short forms (упесён, унесённá) but double [nn] in long forms (упесённýй). In certain adjectives there is a double consonant in long forms, which is retained in the short forms: юскрёныи ‘genuine’, MSC SG юскрёнен, FEM SG юскрённа, NT SG юскрёне ~ юскрёно, PL юскрённн ~ юскрённы; самоуверённыи ‘self-confident’, FEM самоуверёренна, NT -енно, PL -енны (though MSC SG самоуверёнен). Both consonants are kept if the adjective derives from a noun ending in [n]: разностороннýй ‘many-sided’, MSC разностороннен, FEM разностороннá (сторонá ‘side’).

Most soft-stem adjectives are originally suffixed, like разностороннýй or га́льныи. They have a hard [n] in the masculine: бескрёён ‘limitless’ (< бескрёёный). The rare unsuffixed soft-stem adjective си́нь keeps Сí, си́нь ‘blue’.

In the vast majority of adjectives, the root is stressed and remains so in all short forms. In a limited number of adjectives, the ending of some short forms can be stressed (Table 3.23).

There are three old patterns – stem-stressed \{R\}, mobile \{M\} (stress on the ending only in the feminine), and end-stressed \{E\} – and some innovative transitional patterns, in which end stress is more likely in the feminine than in the plural and neuter. The masculine forms are somewhat independent. It is difficult to predict what stable patterns will result from this gradation of patterns. After \{R\}, which is by far the predominant pattern, only \{(M/E)\}, a transitional pattern, has any noticeable frequency, the other patterns being residual.

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16 Zalizniak 1977[a]:33, 59–60, though with different ordering and notation; also SRIa 1.59–60.
3.5.3 Mixed adjectives and surnames

In the change from an original nominal inflection to a distinctively adjectival declension, the heavy, adjectival endings have been adopted according to the order: instrumental ≥ locative ≥ dative, genitive ≥ accusative ≥ nominative. Surnames and possessive adjectives have paused at different points along this process.

Surnames are commonly derived from the possessive adjectives with the suffixes {-ov-} or {-in-}. These still have nominal endings throughout the singular of the masculine, except in the instrumental, which has an adjectival (“long”) ending; the feminine forms of names have adjectival endings in all singular oblique cases. In the plural, only the nominative retains the nominal ending (Table 3.24).

Possessive adjectives in {-ov-} (from nouns of Declension-<Ia>), as in Table 3.25 отца ‘father’s’, which are restricted in the contemporary language – they are characterized as “little used”17 – differ from surnames by having the adjectival ending additionally in the locative singular masculine. Possessive adjectives in {-in-}, which are derived from both feminine and masculine nouns of Declension-<II> and are used frequently, have taken a further step towards adjectival endings in the masculine-neuter genitive and dative singular, which (except for fixed expressions) now use adjectival endings: к маминому<nt dat sg> (<*мамину) зеркалу ‘to mama’s mirror’.

The ordinal третий and generic possessive adjectives (лисиий ‘of a fox’, медвежий ‘of a bear’) likewise have mixed declension, with the same distribution of nominal and adjectival endings as possessives in {-in} (Table 3.26).

3.5.4 Comparatives and superlatives
Adjectives form a synthetic comparative and an analytic comparative.

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17 Zalizniak 1977[a]:63.
Table 3.25 Mixed declension: отцо́в ‘father’s’, ма́мин ‘mother’s’

<table>
<thead>
<tr>
<th></th>
<th>MSC</th>
<th>MSC—NT</th>
<th>NT</th>
<th>FEM</th>
<th>PL</th>
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<td>(отцо́вы)</td>
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</tr>
<tr>
<td></td>
<td>ма́мин</td>
<td>ма́мино</td>
<td>ма́мина</td>
<td>ма́мины</td>
<td></td>
</tr>
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<td>(отцо́ыми)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>GEN&lt;AN&gt;</td>
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<td>(отцо́вой)</td>
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<td>ма́миных</td>
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<td>(отцо́овым)</td>
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<td>ма́миному</td>
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<td></td>
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<tr>
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<td>ма́миным</td>
<td>ма́миной</td>
<td>ма́миными</td>
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<td></td>
</tr>
<tr>
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<td></td>
<td>(отцо́вым)</td>
<td>(отцо́вым)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ма́миным</td>
<td>ма́миной</td>
<td>ма́миными</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Table 3.26 Mixed declension: лиси́й ‘of foxes’, трéтий ‘third’

<table>
<thead>
<tr>
<th></th>
<th>MSC</th>
<th>MSC—NT</th>
<th>NT</th>
<th>FEM</th>
<th>PL</th>
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<td>лисье</td>
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</tr>
<tr>
<td></td>
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<td>трéтье</td>
<td>трéтье</td>
<td>трéтья</td>
<td></td>
</tr>
<tr>
<td>ACC</td>
<td>NOM&lt;IN&gt; ~</td>
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<td>(лисью)</td>
<td>(лисьими)</td>
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</tr>
<tr>
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<td>GEN&lt;AN&gt;</td>
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<td>(лисье́й)</td>
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<td>лисье́й</td>
<td>лисьими</td>
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<tr>
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<td>трéтьим</td>
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<td>трéтьями</td>
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<td>трéтьем</td>
<td>трéтьей</td>
<td>трéтьями</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

The analytic comparative is formed by modifying the usual form of the adjective by the adverb более. The adjective reflects the gender, case, and number of the noun it modifies.

The synthetic comparative is invariant; for a given adjective, a single form is used for all genders and numbers and cases. Synthetic comparatives, which are effectively short-form adjectives, are not used freely in all argument positions (§4.4.7). The synthetic comparative is formed regularly by suffixing -еe to the stem of the adjective; in speech, it has long been pronounced -éй. This originally colloquial variant is often written. Stress usually falls on the stem syllable of the adjective, though the suffix is stressed in certain adjectives: желтее ‘more
Table 3.27 Irregular synthetic comparatives

<table>
<thead>
<tr>
<th>consonant</th>
<th>positive</th>
<th>comparative</th>
</tr>
</thead>
<tbody>
<tr>
<td>{k g x} ∼ {ç š ź}</td>
<td>го́рький ‘bitter’, лёгкий ‘light’, ловкýй ‘agile’, жестокýй ‘cruel’, чёткий ‘precise’, дорогой ‘expensive’</td>
<td>го́рьше, лёгче, ловче (ловчее), жесточе, чётче, дороже</td>
</tr>
<tr>
<td>{t d} ∼ {č ź}</td>
<td>бога́тый ‘rich’, гáдкий ‘vile’, жи́дкий ‘fatty’, короткýй ‘short’, низкий ‘low’, рёдкýй ‘rare’</td>
<td>бога́че, гáже, жи́же, короче, низже, рёже</td>
</tr>
<tr>
<td>{s z} ∼ {š ź}</td>
<td>высокий ‘high’, бли́зкий ‘near’, у́зкий ‘narrow’</td>
<td>вай́ше, бли́же, у́же</td>
</tr>
<tr>
<td>{st sk} ∼ {š}</td>
<td>густо́й ‘thick’, пло́ский ‘flat’, слáдкий ‘sweet’</td>
<td>гу́сты́е, пло́ще, сла́ще</td>
</tr>
<tr>
<td>{P} ∼ {P}</td>
<td>дешё́вый ‘cheap’</td>
<td>дешё́вле</td>
</tr>
<tr>
<td>? ∼ {še}/ {že}</td>
<td>глубокýй ‘deep’, далё́кий ‘far’, долгýй ‘long’, тонкýй ‘fine’</td>
<td>глубже́, да́льше, до́льше, тóньше</td>
</tr>
<tr>
<td>unpredictable</td>
<td>маленький ‘small’, широ́кий ‘wide’, хоро́ший ‘good’</td>
<td>меньше, ши́ре, лу́чше</td>
</tr>
</tbody>
</table>

Certain frequent adjectives use an older, more irregular form of the comparative in {e}, implying a modified consonant grade C. The stem can be shortened, by eliminating what were very old suffixes. In some instances the comparative suffix adds its own consonant, {še} or {že}. There are also unpredictable relations and instances of suppletion among the most frequent and familiar words: ху́же ‘worse’ is isolated (though it derives etymologically from худо́й ‘thin, meager’); лу́чше ‘better’ is used as the comparative of хоро́ший ‘good’; бо́льший ‘greater’, unusually for a comparative, is used as a long form in all cases (note the difference in stress: бо́льшой ‘large’).

The superlative is formed by combining the adjective са́мый with the positive of the adjective: он слы́л са́мым популярным адвокатом ‘he was reputed to be the most popular lawyer’, те́ дни были́ са́мыми счастливы́ми ‘those days were the happiest’.

The bookish prefix на́у- combines with the comparative of irregular adjectives (на́ибóщий ‘highest’, на́йлучший ‘very best’) or an extension of the comparative of regular adjectives (на́ибóгнейший ‘the very poorest’). The derivative expresses an extreme degree of the adjective or adverb. It is now infrequent except in the most common adjectives: на́высшие урожа́и ‘the very highest harvests’, на́илучшим образом ‘in the very best manner’, в на́именьшей степени ‘to the very least degree’, на́ипервое́йшее де́ло ‘the very first priority’, Я готов за малую плату создать
I am prepared to create for you an outstanding, exceptionally beautiful, and, most importantly, interactive site for a modest price! Even for such adjectives, it is more common to use the adverb наиболее with the adjective: наиболее важные вопросы ‘the very most important questions’, наиболее высокая насыщенность ‘the very highest concentration’.

3.6 Declension of nouns

3.6.1 Categories and declension classes of nouns

Most nouns decline, and express distinctions of case and number. Nouns that decline express two numbers and six basic cases,\(^{18}\) though no declension distinguishes all of the twelve logically possible forms.

The same markers of number and case are not used uniformly by all nouns. Rather, there is a set of patterns, or declensions, and each noun is assigned to one such class. Declensional classes then partition the lexicon of nouns, and might be termed morphological gender. Declensional classes are more clearly distinguished in the singular than in the plural; in the plural, the endings for the oblique cases of the dative, locative, and instrumental are the same for all nouns. In the nominative, accusative, genitive plural, each declension class has its preferred endings used by the majority of nouns of a class, but these are preferences, not absolutes. There are three large classes, or declensions. Declension\(_{<1>}\) has two subclasses (Declension\(_{<1a>}\) and Declension\(_{<1b>}\)).\(^{19}\)

The number of a noun is reflected by agreement in an attributive adjective and, if the noun is the subject, in the number of the finite verb. At the same time, adjectives and verbs in the past tense express another property of nouns. Nouns are partitioned into three classes, or syntactic genders, depending on whether they elicit masculine or feminine or neuter agreement in adjectives and verbs.\(^{20}\)

In general, the two partitions of nouns – morphological gender and syntactic gender – correspond closely. Declension\(_{<1b>}\) is exclusively neuters, except for some isolated nouns (пог.мастерье ‘apprentice’)\(^{21}\) and derivatives (diminutives воронко ‘crow’, соловьёко ‘nightingale’, augmentatives волчище ‘big wolf’, парнище ‘big fellow’, дуранчище ‘enormous fool’). Conversely, almost all neuter

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\(^{18}\) On secondary cases: §5.5.

\(^{19}\) The question of how many declension classes there are is less significant than it might appear. Recognizing fewer classes means recognizing more sub-declensions, and vice versa.


\(^{21}\) Zalizniak 1977[a]:54 cites сверлило ‘kind of beetle’, маэлло ‘someone who smears’, words not in general currency.
nouns – except for the dozen or so neuter nouns in Declension_IIIb_ – belong to Declension_Ib_. Declension_Ia_ consists of masculine nouns. One interesting complication is that some nouns in Declension_Ia_ that refer to people by occupation, such as врач ‘doctor’, are coming to be used in reference to women and with feminine agreement in verbs and recently even in adjectives (§4.1.3). Syntactic gender is coming to be determined by the sex of the entity referred to – that is, by the referential gender. Declension_II_ is feminine, with two large classes of exceptions. Descriptive nouns like непоседа ‘fidgety person’ or невежда ‘ignoramus’ can be used with either masculine or feminine agreement according to their reference; they are then common gender. Diminutive names like Толя, Женя, Саша and some isolated nouns (гядя ‘uncle’, судья ‘judge’) are used to refer to males, and elicit masculine agreement in adjectives and verbs. Thus Declension_II_ is feminine except for nouns referring to human beings whose syntactic gender follows referential gender. Declension_III_ is feminine except for the masculine singleton нуть ‘route’ and the near-dozen neuters. Overall, there is a significant degree of correspondence between syntactic gender (the patterns of agreement nouns condition in adjectives and verbs) and morphological gender (the declension class).22

Nouns belonging to Declension_Ia_ that refer to animate beings ([12]) and all plural nouns that refer to animate beings ([13]) use the genitive form in syntactic contexts whenever the accusative case is appropriate (§4.1.6):

[12] Я не знаю, упрекать или хвалить молодого_МС = АСС_ режиссера. _АСС = ГЕН_
   I am not sure whether to criticize or praise the young director.

[13] Тётя Саша учил меня_МС = АСС_ и моих_МС = АСС_ младших_МС = АСС_ сестёр._МС = АСС_
   Aunt Sasha taught me and my younger sisters.

Here the notation “ACC=GEN” is used for cells in which this equivalence occurs. Except for animate nouns, nouns of Declension_Ia_ do not distinguish nominative and accusative singular: NOM столь = ACC столь. Except for animates, plural nouns otherwise do not distinguish these cases: NOM столы = ACC столы. For these cells in paradigms, the notation “NOM=ACC” is used.

3.6.2 Hard, soft, and unpaired declensions

Nouns of Declension_Ia_, Declension_Ib_, and Declension_II_ have two closely related variants. Some end in a “hard” mutable consonant (закон ‘law’, стадо ‘flock’, женщ ‘woman’), others end in a “soft” mutable consonant (конь ‘horse’, море ‘sea’, негедь ‘week’). The hard and soft variants seem different in appearance, but the differences are only those that would be expected from rules of

22 Corbett 1982, 1988[a].
spelling. Both “hard” and “soft” variants are listed for these declensions below. In addition, the stems that end in the unpaired consonants [c ċ š ž ɕ], written «Ц Ч Ш Ж Щ», or [j], look slightly different, because special spelling rules for vowels are invoked after these consonants.

3.6.3 Accentual patterns

Each form of a noun has one vowel that is stressed. The vowel that is stressed is not necessarily the same vowel in every case–number form of a noun. The set of possibilities defines an accentual paradigm or stress pattern. There is a modest number of stress paradigms used by nouns. Some common threads can be distinguished across declension classes. (a) Stress on the root in both singular and plural, or \{R_{SG} : R_{PL}\}, is widespread: NOM SG негёли ‘week’, NOM PL негёлю. (b) Some nouns have stress on the ending in both singular and plural, or \{E_{SG} : E_{PL}\}: NOM SG срёх ‘sin’, GEN SG срежá, NOM PL срежý (except when the ending is \{∅\}, when stress must be on the final syllable of the stem). (c) Some nouns have the opposite stress in singular and plural: \{E_{SG} : R_{PL}\} NOM SG оконо ‘window’, NOM PL окна, or, in the other direction, (d) \{R_{SG} : E_{PL}\} NOM SG слово ‘word’, NOM PL слово. In nouns that stress the oblique plural, stress may retract to the root in the nominative (and accusative) plural. This retraction can occur (e) with root stress in the singular, or \{R_{SG} : E_{PL}(R_{NOM})\}, as in NOM SG зýба ‘tooth’, GEN SG зýба, NOM PL зýбы, DAT PL зýбам, or (f) with end stress in the singular, or \{E_{SG} : E_{PL}(R_{NOM})\}, as in NOM SG кóн, GEN SG кóнá, NOM PL кóни, DAT PL кóнáм. These are the six most widespread patterns. In addition, a very small number of nouns in Declension<II> reduct stress to the stem in the accusative singular, an alternation that requires an additional specification: NOM SG гýвá ‘soul’, ACC SG гýвáy \{E_{SG}(R_{ACC}) : R_{PL}\}.

3.6.4 Declension<ІIa>

Declension<ІIa> is characterized by the following properties: (a) it has no overt ending in the nominative singular (equivalently, the ending is \{∅\}); (b) it does not have a distinct accusative singular case form: the accusative is identical either to the nominative (inanimates) or to the genitive (animates); (c) it does not syncretize the genitive, dative, and locative singular; (d) it has the instrumental singular in \{-om\}; (e) it has both hard and soft stems that are largely parallel; (f) the preferred nominative plural and genitive plural forms are nominative \{-i\} and an overt genitive \{-ov\} or \{-ej\}.

Stress patterns are restricted. Consistent stress on the root (= \{R_{SG} : R_{PL}\}) is the most usual, then consistent stress on the ending (= \{E_{SG} : E_{PL}\}). Other patterns occur, and are illustrated in Table 3.28, but are represented by small numbers of nouns.
Table 3.28 Declension

<table>
<thead>
<tr>
<th>Case</th>
<th>Soft Stem</th>
<th>Hard Stem (Animate)</th>
<th>Hard Stem</th>
<th>Hard Stem</th>
</tr>
</thead>
<tbody>
<tr>
<td>NOM SG</td>
<td>заво́д</td>
<td>коль</td>
<td>зу́б</td>
<td>ко́нь</td>
</tr>
<tr>
<td>ACC SG</td>
<td>=NOM</td>
<td>=NOM</td>
<td>=NOM</td>
<td>=GEN</td>
</tr>
<tr>
<td>GEN SG</td>
<td>заво́да</td>
<td>кола́</td>
<td>зу́ба</td>
<td>ко́ня</td>
</tr>
<tr>
<td>DAT SG</td>
<td>заво́ду</td>
<td>колу́</td>
<td>зу́бу</td>
<td>ко́ни</td>
</tr>
<tr>
<td>LOC SG</td>
<td>заво́де</td>
<td>коле́</td>
<td>зу́бе</td>
<td>ко́не́</td>
</tr>
<tr>
<td>INS SG</td>
<td>заво́дом</td>
<td>колом</td>
<td>зу́бом</td>
<td>ко́нем</td>
</tr>
<tr>
<td>NOM PL</td>
<td>заво́ды</td>
<td>колья</td>
<td>зу́бы</td>
<td>ко́ни</td>
</tr>
<tr>
<td>ACC PL</td>
<td>=NOM</td>
<td>=NOM</td>
<td>=NOM</td>
<td>=GEN</td>
</tr>
<tr>
<td>GEN PL</td>
<td>заво́дов</td>
<td>коле́ев</td>
<td>зу́бов</td>
<td>ко́не́й</td>
</tr>
<tr>
<td>DAT PL</td>
<td>заво́дам</td>
<td>колъям</td>
<td>зу́бам</td>
<td>ко́нъам</td>
</tr>
<tr>
<td>LOC PL</td>
<td>заво́дах</td>
<td>колъях</td>
<td>зу́бах</td>
<td>ко́нях</td>
</tr>
<tr>
<td>INS PL</td>
<td>заво́дами</td>
<td>колъями</td>
<td>зу́бами</td>
<td>ко́нъами</td>
</tr>
</tbody>
</table>

‘factory’ ‘stake’ ‘tooth’ ‘horse’ ‘rank’ ‘sin’

Soft stems, listed separately here, differ from hard stems only in orthographic details. In the nominative singular, a hard stem ends in a consonant letter; in soft stems, the final consonant letter is followed by ⟨j⟩, indicating that a mutable consonant is soft (palatalized). In other case forms, soft stems use the soft-vowel letter that corresponds to the hard-vowel letter used in hard stems, and it indicates that the consonant is palatalized. Thus the ⟨я⟩ letter marking the genitive singular of ко́ниа indicates that the consonant is palatalized ⟨[j]|⟩ and that the vowel is ⟨[a]|⟩ under stress. The endings ⟨-u⟩ and ⟨-i⟩ behave in the same fashion, and differ in soft stems from hard stems only by choosing the appropriate vowel letter.

The locative singular of soft-stem nouns is identical to that of hard-stem nouns, since in fact the final consonant of hard stems is palatalized before ⟨-е⟩. The instrumental singular is always spelled ⟨ем⟩ in hard stems. In soft stems, the ending, when it is stressed, is pronounced as ⟨om⟩ (with a preceding palatalized consonant) and can be spelled in explicit style as ⟨ем⟩, in neutral style as ⟨ем⟩; unstressed, it is ⟨ем⟩. The genitive plural endings of hard and soft stems differ in a more substantive way. Hard stems take ⟨-ов⟩, spelled ⟨ов⟩, while soft stems take ⟨-еj⟩, spelled ⟨ей⟩.

Unpaired stems – that is, stems ending in the consonants ⟨j⟩ or ⟨с ∼ ц ∼ ѭ ∼ щ⟩ – present some complications.
Some nouns in Declension<sub>IA</sub> end in [j] preceded by a vowel, or {-Vj-}, spelled as a vowel letter followed by «Ы»: кий ‘pole’, музей ‘museum’, край ‘region, edge’, герои ‘hero’, поселуя ‘kiss’. In other case-number forms, the ending itself begins with a vowel, and the stem-final [j] is spelled by a following soft-vowel letter; for example, in GEN SG кий, музей, края, герои, поселуя, the letter «Я» spells the {-a} of the ending and the [j] of the stem. In the instrumental singular, the ending {-om} is spelled as it would be after soft stems: under stress, as «ём» (explicit style) or «ем» (neutral style): киём (кием), соловьём (соловьем). Not under stress, the ending is spelled «ем»: музееем, сценарием. The genitive plural of nouns ending in stem-final [j] is like that of hard stems. The basic ending is {-ov}, spelled as «ёв» (explicit style, under stress) or otherwise as «ев»: stressed киёв (neutral киев), unstressed музёева, краёв, героев, поселуёв. Before the {-i} of the nominative plural, the [j] is not actually pronounced: NOM PL кий is pronounced as [kii], not *[kii], similarly музей [eii], not *[eii], герои, поселуи.

In stems that end in {-ij-}, the locative singular is spelled «ин» rather than «ие»: NOM SG сценарий ‘script’, LOC SG сценария. With other vowels preceding the stem-final [j], the ordinary locative singular spelling «е» is used: NOM SG герои, LOC SG герои.

In some nouns there is an alternation of full-grade vocalism (NOM SG ручей ‘brook’) and null-grade vocalism (GEN SG ручьё) (§2.5.6). The genitive plural is {-ov}, with no vowel between the consonant and the [j]. The ending is spelled «ев» («ёв», explicit under stress): соловьёв ‘nightingales’ (соловьёв), ручьев (ручьев).

Unpaired stems – those ending in unpaired obstruents [ч ш ж ц] written «ч ш ж ц» – use the vowel letters they normally use: «а», «у» and, in the nominative plural, «и». The nominative singular is spelled without «ъ». In this way the ending-less nominative singular of nouns of this declension – палач ‘hangman’, гуаш ‘shower’, нож ‘knife’, това́ри́ц ‘comrade’ – can be distinguished in spelling from the ending-less nominative singular of nouns of Declension<sub>IIIа</sub> – дичь ‘wildfowl’, глушь ‘remote place’, робь ‘rye’, ве́нь ‘thing’. In the instrumental singular «ом» is used when the ending is stressed, плачом, но́жом, плачо́м; the ending is spelled «ем» when it is not stressed, плачём ‘crying’, сабота́же ‘sabotage’, тушем ‘ink’, това́ри́цем ‘comrade’. The locative singular is «е». The genitive plural is {-еj}, not {-ov}: плача́й, това́ри́це́й, a result of the fact that {-ej} was brought into Declension<sub>IA</sub> by masculine nouns as they moved from the masculine i-stem declension into Declension<sub>IA</sub>.

Stems in [c] behave much like those in [ч ш ж ц]. Endings that begin with {-a} or {-u} spell the ending with the hard-vowel letter. The instrumental singular is «ом» if stressed, as in отогом, but «ем» if unstressed: самозванцем ‘pretender’. The genitive plural is {-ov}, spelled «об» under stress (отогоб), «еб» not under
### Table 3.29 Stem types and endings, Declension<sub>IA</sub>

<table>
<thead>
<tr>
<th>END STRESS</th>
<th>GEN SG</th>
<th>DAT SG</th>
<th>INS SG</th>
<th>GEN PL</th>
<th>NOM PL</th>
</tr>
</thead>
<tbody>
<tr>
<td>STEM STRESS</td>
<td>–a</td>
<td>–й</td>
<td>–ом</td>
<td>–ов</td>
<td>–ы</td>
</tr>
<tr>
<td>hard</td>
<td>заво́дь 'factory'</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>воль 'ox'</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>soft</td>
<td>го́лубь 'dove'</td>
<td>–я</td>
<td>–yo</td>
<td>ем</td>
<td>–ей</td>
</tr>
<tr>
<td></td>
<td>кён 'horse'</td>
<td>–я</td>
<td>–yo</td>
<td>ем</td>
<td>–ей</td>
</tr>
<tr>
<td></td>
<td>[j] музéй 'museum'</td>
<td>–я</td>
<td>–yo</td>
<td>ем</td>
<td>–я</td>
</tr>
<tr>
<td></td>
<td>кий 'pole'</td>
<td>–я</td>
<td>–yo</td>
<td>ем</td>
<td>–я</td>
</tr>
<tr>
<td></td>
<td>[c] самозвáнцé 'pretender'</td>
<td>–я</td>
<td>–yo</td>
<td>ем</td>
<td>–я</td>
</tr>
</tbody>
</table>

x | y (z) = unstressed ending | stressed ending, neutral spelling (stressed ending, explicit spelling)

| Plural stem augment {–j}: Thirty or so nouns use a stem augment in [j], an old collective suffix, throughout the plural. The nominative plural is {–a}, usually with the genitive plural {–ов} (кóлос ‘ear’, NOM PL кóлóсья, GEN PL кóлóсьев); a half-dozen allow the null ending, which implies a full vowel before the augment [j]: гéверь 'husband’s brother', NOM PL гéверь, GEN PL гéверéй. A small number has a plural stem augmented by {–ovj}: NOM SG сьё ‘son’, NOM PL сыновьé, GEN PL сыновéй. Along with {–j}, грýс ‘friend’ has an unusual consonant: NOM PL грýзь, GEN PL грýзéй. |


24 This unusual grade, not recorded among the morphophonemic alternations (§2.5.2), goes back to the second palatalization of velars. It would have been justified specifically before NOM PL {–i}; the consonant was preserved as the noun adopted the {–j} augment for the stem throughout the plural.
Stressed NOM PL {-а}: A number of nouns have stressed {-а} in the nominative plural, which implies end stress throughout the plural (hence {РSG : ЕPL}); the genitive plural is the usual: NOM SG берег ‘bank, shore’, NOM PL берега, GEN берегов; NOM SG инспектор ‘inspector’, NOM PL инспектора, GEN инспекторов; NOM SG учитель ‘teacher’, NOM PL учителя, GEN учителяй; NOM SG кра́й ‘edge’, NOM PL кра́й, GEN PL краёв.

This pattern is avoided with nouns that have consistent end stress (exception: ру́кав ‘sleeve’, GEN SG = NOM PL рукава) and, among trisyllabic stems, with nouns whose ultimate syllable is stressed (NOM SG режиссёр ‘director’, NOM PL режиссёры, not *режиссер). This ending has a complex history. It derives from the nominative dual of nouns that belonged to the mobile accentual paradigm, such as earlier NOM du берёза ‘(two) shores’. It was extended first to nouns that come in groups or clusters, such as гома́ ‘houses’, волоса ‘head of hair’ (opposed to волосы ‘strands of hair’). Then it was applied to (often borrowed) names of occupations, профессора́ ‘professors’, кондуктора́ ‘conductors’, инструктора ‘instructors’, and to implements and professional accoutrements, ката́ра ‘launches’, трактора́ ‘tractors’, договора́ ‘agreements’, even соуса́ ‘sauces’, торт ‘pastries’. Thus the pattern has been productive, inasmuch as it was used for new words. Yet at the same time, even during its heyday at the beginning of the twentieth century, the ending acquired the connotation of trade jargon (“de métier”), while “les classes cultivées manifestent au contraire de la répugnance à employer ces formes.”

Consistent with this paradoxical productivity and censure, the sociolinguistic investigation from the 1960s (Krysin 1974) reports a mixed picture. The use of this ending increased with certain nouns (инженёр ‘engineer’, ката́р, трактор) and decreased with others (кондуктор, регактор ‘editor’, слесарь ‘carpenter’, токарь ‘turner’). For a third group, usage peaked in the cohort born 1930–39 and then declined (бухгалтер ‘bookkeeper’, шофёр ‘chauffeur’). Other words can be documented to be losing {-а}, especially in neologisms: compare гроба́ ‘graves’, кельнеры́ ‘waiters’ ~ archaic кельнер, or гома́ ‘houses, buildings’ but newer детских ‘orphanages, children’s homes’. Thus this suffix, though it has been productive, has also been restricted by sociolinguistic factors. Its history is a cautionary tale against the presumption that change, once begun, will necessarily continue in a linear fashion.

Ethnonyms: Nouns characterizing individuals by place of origin or membership in an ethnic group are commonly built on the suffix {-ан-}, and the singular has an additional suffix {-ин-}. The plural lacks the second morph and uses an
otherwise unique ending \{-e\} and the null ending in the genitive plural: nom sg armtjan ‘Armenian’, nom pl armtjane, gen pl armtjane; nom sg rostovcane ‘person from Rostov’, nom pl rostovcane, gen pl rostovcane. (The nominative plural ending is historically *-e*, spelled as «e»; since it is not stressed, it is consistently pronounced as [i].) The pattern has been a productive way of deriving ethnonyms. Just over one hundred items are cited in Zalizniak 1977[a].

Parts of this pattern for ethnonyms can occur without others. Гражданин ‘citizen’ has nom pl \{-e\}, gen pl \{-Ø\}, with a stress shift: граждane, граждан. Three nouns have \{-in\} in the singular but without \{-an\}, and nom pl \{-i\} and gen pl \{-Ø\}: nom sg болгари ‘Bulgarian’, nom pl болгары, gen pl, болгир; nom sg татарин ‘Tatar’, nom pl татары, gen pl татар. One noun has variation: nom sg барин ‘barin’, nom pl баре ∼ барь, gen pl, бар. Господин ‘gentleman’ loses \{-in\} and uses stressed \{-a\} along with genitive plural zero: nom pl господá, gen pl господ. Хозяин ‘master’ acquires an augment \{-ev\} and uses nom pl \{-a\} – unstressed – along with a zero in the genitive plural: nom sg хозяин, nom pl хозяева, gen pl хозяев. Шурин ‘brother-in-law’ loses the \{-in\} suffix and acquires \{-j\} as an augment, with \{-ov\} in the genitive plural: nom sg шурин, nom pl шурыя, gen pl шурыев (recently nom sg шурин, nom pl шурина, gen pl шуриною). Цыган ‘Gypsy’ has the plural in \{-e\} and genitive plural (normally) in \{-Ø\}, though it lacks the suffix \{-in\}.


The usage in the genitive plural of ethnonyms was investigated in quantitative contexts by Vorontsova (1976). Her results, summarized for four ethnonyms in Table 3.30, were consistent with normative recommendations for usage. The highest percentage of \{-Ø\} was recorded for грузин (84%), with normative \{-Ø\}. At the other extreme, a low percentage of \{-Ø\} was reported for монгол (20%), for which \{-ov\} is normative. Intermediate usage was reported for туркмен (50%), which allows variation, and for башкър (67%), with normative \{-Ø\}. In recent usage on the web (four right-hand columns in Table 3.30 <20.XII.01>), the distribution of \{-Ø\} and \{-ov\} seems to have polarized. Context seems to play
Table 3.30 Genitive plural {-∅} of ethnonyms

<table>
<thead>
<tr>
<th>normative usage</th>
<th>Vorontsova (1976)</th>
<th>quantifiers</th>
<th>prepositions</th>
<th>acc</th>
<th>genitive</th>
</tr>
</thead>
<tbody>
<tr>
<td>грузин(ов)</td>
<td>{∅}</td>
<td>84</td>
<td>98</td>
<td>96</td>
<td>91</td>
</tr>
<tr>
<td>башкир(ов)</td>
<td>{∅}</td>
<td>67</td>
<td>100</td>
<td>97</td>
<td>97</td>
</tr>
<tr>
<td>туркмен(ов)</td>
<td>{∅} ~ {−ov}</td>
<td>50</td>
<td>69</td>
<td>86</td>
<td>96</td>
</tr>
<tr>
<td>монгол(ов)</td>
<td>{−ov}</td>
<td>20</td>
<td>5</td>
<td>4</td>
<td>6</td>
</tr>
</tbody>
</table>

quantifiers = много, тысяч
prepositions = u, от
genitive = история ~ предки ~ за исключением
all figures are percentages

Table 3.31 Morphology of ethnonyms

<table>
<thead>
<tr>
<th>stem augment {-an-}</th>
<th>singular augment {-in-}</th>
<th>NOM PL</th>
<th>GEN PL</th>
</tr>
</thead>
<tbody>
<tr>
<td>калужанин</td>
<td>√</td>
<td>{−e}</td>
<td>{∅}</td>
</tr>
<tr>
<td>болгариин</td>
<td>*</td>
<td>{−e}</td>
<td>{∅}</td>
</tr>
<tr>
<td>башкир</td>
<td>*</td>
<td>{−i}</td>
<td>{∅}</td>
</tr>
<tr>
<td>бурят</td>
<td>*</td>
<td>{−i}</td>
<td>{∅} ~ {−ov}</td>
</tr>
<tr>
<td>хорват</td>
<td>*</td>
<td>{−i}</td>
<td>{−ov}</td>
</tr>
</tbody>
</table>

little role, except that quantifiers have kept туркмен from fully generalizing {−ov}.

The range of options for ethnonyms is summarized in Table 3.31.

Young animals: The plural of names for the young of animals, with the suffix {-at-}, have a neuter-like combination of endings, namely NOM PL {-a}, GEN PL {-∅}: телёнок ‘calf’, NOM PL телёнка, ACC=GEN PL телёк; котёнок ‘kitten’, NOM PL котёнка, ACC=GEN PL котёл; ребёнок ‘boy’, NOM PL ребёнка, ACC=GEN PL ребёл. This is because the plural suffix is historically a neuter; the nouns appear to belong to Declension<1a> only because that suffix has been paired with the suffix {-on<o>-k} in the singular; this suffix puts the noun in Declension<1a> in the singular. By virtue of having different suffixes in the singular and plural, these nouns switch declensional allegiance between singular and plural.

Counted nouns: While it is usual for nouns of Declension<1a> to have an overt ending in the genitive plural, the archaic null ending is preserved in nouns belonging to certain lexical fields that are commonly used in quantitative constructions: ethnonyms (as just illustrated), units of measurement (17% гестьь
Inflectional morphology

Stem alternation: Two nouns have an idiosyncratic alternation of hard singular stem and soft plural stem: nom sg cocég ‘neighbor’, nom pl cocégu, gen pl cocégey and nom sg чёрт ‘devil’, nom pl черти, gen pl чертей.

3.6.5 Declension<\text{IB}> Declension<\text{IB}> (Table 3.32) is almost exclusively neuter, except for derivatives of masculines (городищко ‘town’, топорище ‘ax’) and isolated masculines (notably, подмастерье ‘apprentice’, an animate noun that participates in the animate accusative). Declension<\text{IB}> differs from Declension<\text{IA}> in the singular by having an overt ending in the nominative. When, rarely, this ending is stressed, both after hard and soft consonants, this ending is [o] (e.g., жильё ‘dwelling’). In the plural, Declension<\text{IB}> prefers a nominative in {\text{-a}} and genitive in {\text{-u}}.

Although the expected nominative singular is [o] under stress, three original event nouns have stressed [i] in the nominative singular (and in the instrumental): житие ‘life’, loc sg житий, ins sg житиєм; also бытие ‘being’, питие ‘drinking’. Here [i] reflects the failure of *e > o in these historical Slavonicisms.

Only three members of Declension<\text{IB}> have stems ending in paired soft consonants: поле ‘field’, море ‘sea’, го́ре ‘woe’, with overt genitive plural (поле́й). Productive are event nouns in {Ç-ij}, whose locative singular is spelled <ц-ii> and whose genitive plural is {ij-}, spelled <ц-ий>, such as nom sg зданий, loc sg зданим, gen pl зданий. A similar suffix is used to form abstracts or collectives that are not deverbal, such as многолю́дь ‘populousness’, подполе́ ‘underground’, коньё ‘lance’. With nouns of this shape, the genitive plural is usually {Ç-Vj-Ø}. The sequence is spelled <ц-ий> if it is unstressed (улице́ ‘ravine’, gen pl улице́й), <ц-ей> if it is stressed (питьё ‘drinking’, gen pl питьёй). (Gen pl ружей, from ружьё ‘rifle’, is exceptional.) Although the null ending is the general rule for nouns of this declension, a dozen or so nouns of this shape use the genitive plural in

\footnote{Vorontsova 1976 suggests that different lexical fields have different directions of development, though the differences are not profound. Use of {Ø} declined slightly for ethnonyms, but increased slightly for fruits and vegetables (апельсин from 26% to 39% – with a peak of 42% in the next-to-youngest generation!) and paired items (носок from 25% to 45%).}
Table 3.32 Declension

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'gorge' 'building' 'face' 'porch' 'place' 'creature'

{-ov} instead: NOM SG устье 'estuary', GEN PL устьев. The frequent noun плáтье 'dress' belongs here (GEN PL плáтьев), as does остриé 'point' (GEN PL остриéв). Some nouns have variation: NOM SG поднóльь 'cellar', GEN PL поднóльев ~ поднóльй; NOM SG верхóвье 'upper reaches', GEN PL верхóвьев ~ верхóвий. The overt genitive plural {-ov} occurs with nouns which use the collective {-ij-} augment in the plural, such as перó 'feather', NOM PL перýя, GEN PL перýьев, and also with облáко 'cloud' (NOM PL облакá, GEN PL облáкóв). The event nouns in {-Cj-} have the locative spelled «ин», while the deverbals and collectives in {-Cj-} should have the locative spelled «н». There was variation in the nineteenth century between «к» and «къ». The alternate spelling is still reflected in the idiom в половинчатом 'in half-forgetfulness'.

Diminutives in {-c-} have the expected nominative plural in {-a} but show variation in the genitive plural between {-ov} and {-φ} (if the ending is {-φ}, the consonant cluster is broken up with the full vowel <e>). Ten older nouns use only {-φ}: NOM SG блюдо 'saucer', NOM PL блюдá, GEN PL блюдец, also сёрце 'heart', полотёнце 'towel', зёркальце 'mirror', мýльце 'soap'. And only {-φ} (with full grade) is used for nouns with this suffix when the ending is stressed: NOM SG слову́д 'word' NOM PL слову́д, GEN PL слову́д. Some two dozen younger derivatives use both {-φ} and {-ov}: NOM SG коньгъце 'hoof', NOM PL коньгцá, GEN PL коньгцéв ~ коньгцéев. The {-ov} ending is regular in болóтце 'swamp', GEN PL болóтцев.
The combination of NOM PL {i} and GEN PL {Ø}, characteristic of Declension_<IA>, is found with nouns ending in a velar: NOM SG вёко 'eyelid', NOM PL вёки, GEN PL вёк; NOM SG яблоко 'apple', NOM PL яблоки, GEN PL яблок; also NOM SG плечо 'shoulder', NOM PL плечи, GEN PL плеч. This combination of NOM PL {i} and GEN PL {Ø} occurs as a rule with certain gradated forms: доми́шко 'house', окно́шко 'window', арбу́зье 'melon' (§3.6.8). Isolated is NOM SG ухо 'ear', NOM PL ушо́, GEN PL ушё (similarly, archaic окó 'eye', очи, оче́й).

In Declension_<IB>, consistent root stress and consistent end stress are again statistically the most prominent, in part because suffixed derivatives fall into one or the other class: {R<SG : R<PL> жительство 'residence', {E<SG : E<PL> колю́ство 'sorcery'. Some high-frequency nouns fall into the two complementary patterns which oppose singular and plural by stress: {R<SG : E<PL> NOM SG место 'place', NOM PL местá and {E<SG : R<PL> NOM SG лицо 'face', NOM PL ли́ца.

3.6.6 Declension_<II>
Alone of the declensions, Declension_<II> (Table 3.33) distinguishes the nominative and accusative in the singular. This declension also merges the dative and the locative singular (but not the genitive singular). The accusative plural is merged with the nominative or genitive, by animacy, as in all paradigms. Again, hard and soft stems do not differ other than orthographically. With stems ending in {-Vj-}, the [j] is spelled by the following soft-vowel letter of the ending: линия 'line', затёка 'trouble', хвоя 'needles', чешуя 'fish scales'. The dative and
locative singular is «ин» for stems in {ij}: DAT=LOC SG исто́рии ‘history’ but DAT=LOC SG загать. Before endings in {i}, the [j] is not pronounced.

In the plural, the nominative is universally {i}, and the genitive is preferentially {Ø}. For stems in {Vj-}, the genitive plural is spelled with «й» (затей, исто́рий). The final paired consonant of soft-stem nouns normally remains palatalized, and is spelled «б»: неде́ля (week), GEN PL неде́ль; за́рь ‘dawn’, GEN PL зо́рь. Nouns in {Cj-} have a null ending with full grade inserted between the consonant and [j]. That vowel is spelled «е» under stress (свиней ‘swine’, статей ‘articles’) and «и». unstressed (GEN PL гостьй ‘guests’).

The overt GEN PL {-ej} is possible with certain soft-stem nouns: га́я ‘uncle’, GEN PL га́дей; го́ля ‘portion’, GEN PL го́леи; сте́зя ‘way’, GEN PL сте́зей. Sometimes {-ej} occurs alongside {Ø}: просты́нь ‘sheet’, GEN PL прость́нь ~ просты́ней; расте́рья ‘absent-minded person’, GEN PL расте́рь~ расте́рь; межа́ ‘boundary’, GEN PL меже́й ~ меж. The overt ending is also possible with some soft-stem nouns ending in a cluster: ноза́рь ‘nose’, ноза́рь, though other nouns use {Ø} and an inserted vowel: кáпля ‘drop’, GEN PL кáпель; пётль ‘loop’, GEN PL пётель; земля́ ‘land’, GEN PL земле́й. Nouns in {-Cj-} insert a vowel with {Ø} ending and, contrary to the general principle of maintaining palatalization, usually harden the consonant: пе́сня ‘song’, GEN PL пе́сен; ба́шин ‘tower’, ба́шин; спáльня ‘bedroom’, спáлен. This hardening in turn has exceptions: серевна́ ‘village’ GEN PL серевень; ба́рви́чка ‘gentrman’s daughter’, ба́рви́чень.

Declension-{II} has an interesting archaic stress paradigm, in which the stress retracted from the ending to the root in the accusative singular and nominative
Table 3.34 Declensions<IIIa, IIIb, IIIc>

<table>
<thead>
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<th>IIIa</th>
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</table>

‘notebook’ ‘news item’ ‘daughter’ ‘love’ ‘time’ ‘journey’

plural, or \{E_{sg}: R_{pl}\}, goporá ‘mountain’. The pattern is unproductive, and it is moving in the direction of \{E_{sg}: R_{pl}\}, the pattern of женá, жёны. Along the way, transitional stages have developed: stress can be regularized first in the accusative singular while the oblique plural remains stressed, as in \{E_{sg}: E_{pl}(R_{nom})\}, NOM SG субá, ACC SG субý (earlier сýбú), DAT PL субáм, or the oblique plural adopts root stress leaving the stress on the stem in the accusative singular, as in \{E_{sg}(R_{acc}): R_{pl}\}, NOM SG гушиá, ACC SG гушиу, NOM PL гуши, DAT PL гушиам (earlier гушиáм). Different nouns have changed at different rates. Субá ‘fate’ has almost completely gone over from \{E_{sg}: E_{pl}(R_{nom})\} to \{E_{sg}: R_{pl}\}, except for the archaic genitive plural суђбá (now суђеб) and the idiom какáм субáбами (otherwise INS PL субйбами). Сторо́нá ‘side’ is normatively \{E_{sg}(R_{acc}): E_{pl}(R_{nom})\}, but warnings in manuals suggest the future may see both the elimination of the accusative singular stem stress (ACC SG сторо́ну > сторо́ну) and end stress in the oblique plural (DAT PL сторо́нáм > сторо́нам). Рекá ‘river’ allows variation in both positions: ACC SG рекý ∼ рéку, DAT PL рекáм ∼ рéкам.

3.6.7 Declension<III>
The three variants of Declension<III> are characterized by the syncretic ending {-i} in genitive, dative, locative singular (see Table 3.34). Feminine Declension<IIIa>, relatively numerous, has NOM SG {-º}, INS SG {-ju}, NOM PL {-i}, and GEN PL {-ej}. 
In Declension$_{IIIa}$ the consonant is an unpaired consonant (вóйй) or paired soft; цéрко́вь allows a hard stem in the oblique plural (цéроквáй ~ цéрквáй). A small number of nouns have null grade alternating with full grade: Nom SG вóйй 'house', Gen=Dat=Loc SG вóйй, Ins SG вóййо; цéрко́вь 'church', Gen=Dat=Loc SG цéрквáй, Ins SG цéрко́вьо. The two feminine nouns referring to people express animacy in the plural, but not in the singular: Nom=Acc SG матéрй, Acc=Gen Pl матéрй; Nom=Acc SG дочь, Acc=Gen Pl дочерй. These nouns also preserve an archaic alternation in the shape of the stem.

Stress patterns in Declension$_{IIIa}$ are limited. Most usual are \{R$_{sg}$ : R$_{pl}$\} and \{R$_{sg}$ : E$_{pl}$(R$_{nom}$)\}. A dozen or so nouns have the stress pattern \{R$_{sg}$ : E$_{pl}$(R$_{nom}$)\}, with the proviso that, in the locative singular, stress shifts to the end to make Loc2: Nom SG о́сь, Loc1 о́си, Loc2 оси. Pattern \{E$_{sg}$ : E$_{pl}$\} is found with любóвь and some other nouns. Пýть, the lone masculine member of Declension$_{IIIc}$, is genuine \{E$_{sg}$ : E$_{pl}$\}. Certain numerals have the singular form of this stress (пýть, Gen=Dat=Loc SG пýятй), with no stress retraction in the instrumental (Ins пýтйо). The normative accentuation of сру́йй was originally \{E$_{sg}$ : E$_{pl}$(R$_{nom}$)\} with retraction in the instrumental singular (Gen=Dat=Loc сру́ййп, Ins сру́ййп) and alternation in the plural (Nom Pl сру́йй, Dat Pl сру́ййп). The genitive and dative singular now show variation (сру́ййп). In Declension$_{IIIb}$ almost universal is \{R$_{sg}$ : E$_{pl}$\} (ýмя 'name', Gen=Dat=Loc SG ýменй, Nom Pl именй, Dat Pl именйп). Only знáмýя 'banner' differs, with stem stress in the singular (Gen=Dat=Loc SG знáмййп) and pre-desinential stress in the plural (Nom Pl знамёна, Dat Pl знамёнп).

A handful of nouns of Declension$_{IIIa}$ still preserve the older instrumental ending {-мй} (spelled «мй»), though it is close to gone. According to normative recommendations, the old ending is preferred with лошадйймй 'horses', дочерйймй 'daughters', possible but not preferred with дверйймй 'doors', archaic or limited to fixed phrases with горстйймй 'handfuls', клетйймй 'containers', (лéчй) костйймй 'lay down one's bones'. The ending is still usual with детьйймй 'children', людйймй 'people' (though these nouns are not usually included in Declension$_{III}$).

There are ten neuter nouns in Declension$_{IIIb}$: брёма 'burden', врёма 'time', вйймй 'udder', знáмй 'banner', ýмя 'name', плémй 'tribe', плáмй 'flame', сёмй 'seed', стрéмй 'stirrup', тёмй 'crown [of head]'. Declension$_{IIIb}$ has a nominative singular which is spelled «я» (pronounced [э]). The nominative (and accusative) singular uses a diminished stem without the {-Vyн} of other cases. Declension$_{IIIb}$ uses an instrumental {-ем}, nominative plural {-а}, and genitive {-ф}: Ins SG ýменйп, Nom Pl именйп, Gen Pl име́п. These are characteristics.

27 Usage on the web (<04.XI.02>) is consistent with the normative rules: лошадйймй 99%, дочерйймй 88%, дверйймй 32%, горстйймй 0.8%.
of fellow neuters of Declension<II>. The final consonant of the stem expansion in {-Vn} is palatalized in the singular {-Vp} and unpalatalized in the plural {-Vn}. Normally that vowel is unstressed; it becomes stressed only in the ending-less genitive plural, when the end of the stem is normally {-m}: имён. Two nouns take gen pl {-мн}: семён, стремён. The archaic noun gutš 'child, offspring' belongs in Declension<III>, by virtue of merging the three oblique cases (gutštu<GEN=DAT=LOC>); the instrumental is gutšteй. The lone masculine нуть 'road' follows Declension<III> except in the instrumental singular.

3.6.8 Declension and gender of gradation
As emerged from the earlier exposition, gender and declension class are largely stable and fixed. A given noun is assigned to one and only one declension class. With the exception of nouns referring to human beings, syntactic gender can be predicted from morphological gender. As a rule, Declension<IA> is masculine, Declension<IB> neuter, and Declension<II> and Declension<III> mostly feminine. In ordinary instances, diminutives are transparent; the derived noun is assigned to one of the three productive declensional patterns and maintains its ancestral gender – the gender of the base noun. Thus the masculine suffix {-k-} and its expansions ({ik-}, {cik-}, {ck-}) take masculine nouns from Declension<IA> or Declension<III> and assign them to Declension<IA>; masculine gender is preserved. The corresponding feminine versions of these suffixes assign nouns from Declension<II> and Declension<III> to Declension<II>, and the neuter versions assign nouns to Declension<IB>.

The only problematic cases involve gradated derivatives. Pejorative diminutives of the type msc гоми́шко 'house' and nt окó́шко 'window' belong to Declension<IB>, though they have nom pl {-i}, more like Declension<IA> than Declension<IB>, with the expected gen pl ending {-θ}: nom pl гоми́шки, окó́шки, gen pl гоми́шек, окó́шек. Phonetically, the final vowel of [данишка] could easily be construed as the nominative singular of Declension<II>. And in fact, in less-than-standard register these nouns can take the singular oblique cases from Declension<II> (gen sg гоми́шка, dat sg=loc sg гоми́шке, ins sg гоми́шкой). The accusative is still гоми́шку, not гоми́шко.

Another problematic declension is diminutives in {-ин(а)} from masculines (дождьина < дождь 'rain', холодьина < холодь 'cold', домйина < домь 'building'), which decline like members of Declension<II>: nom sg гоми́на, acc sg гомину, gen sg гомины, dat sg=loc sg гомине, ins sg гоминой, nom pl гомины, gen pl гоми́н. The syntactic gender for these nouns, however, vacillates between feminine, appropriate for Declension<II>, and masculine, which is the ancestral gender. Both agreement variants are said to be stylistically neutral, hence both šta гоми́на, which would be like a true feminine (though it contradicts
the ancestral gender), and ʰrost ᵈᵒᵐⁱⁿᵃ, which would be like a masculine member of Declension₉<II> (though masculines in Declension₉<II> are otherwise only animate). In the accusative, the feminine pattern prevails ([14]):

[14] Загоно́ эту доми́ну (*этот доми́ну) за 150 тысяч баксов и возьму в Москве хорошую квартиру.

I'll get rid of this house for 150 thousand bucks and get a good apartment in Moscow.

A third set of problems arises with the suffix {iš-}. The feminine augmentative assigns nouns to Declension₉<II>, as in ʂʐɨjža < ʂʐャ ‘dirt’, ɓə̝iʃa < ɓə́bə ‘old woman’. With neuter nouns, the derivative behaves like a standard member of Declension₉<II>: ɕɛlîʃə < ɕɛló ‘village’. What appears to be the same suffix can be applied to masculine nouns and yield neuter derivatives which have a metonymic meaning: ʈɔpɔ́r ‘ax’ > ʈɔpɔriʃə ‘ax handle’; Ӕɔʃɔ́ > ɭɔɾɔʃiʃə ‘site of bonfire’. This suffix also forms derivatives of verbal roots – ɤ佑ɛʃi ‘refuge’, ɭɪjɪʃə ‘dwelling’. These derivatives are unproblematic neuter nouns with the endings characteristic of Declension₉<II>:

nom pl {a} – ɕɛlîʃə, ɭɔɾɔʃiʃə, ɤ佑ɛʃi – and gen pl {θ} – ɕɛlîʃə, ɭɔɾɔʃiʃə, ɤ佑ɛʃi.

This suffix, applied to masculine (Declension₉<IA>) nouns in the strictly augmentative sense, yields derivatives whose nominative singular would put them in Declension₉<II>: ɡōм > ɡомɪʃə ‘big house’, ʈɔpɔ́r > ʈɔpɔriʃə ‘big ax’, ɭøɾɔ > ɭɔɾɔʃiʃə ‘big city’, ɭəmɓ’à > ɭəmɓaɾiʃə ‘big barn’. In the plural, these derivatives use gen pl {θ}, while the nominative plural varies between {a} (from Declension₉<II>) and {i} (from Declension₉<IA>): ɡомɪʃə, nom pl ɡомɪʃə ~ ɡомɪʃə, gen pl ɡомɪʃə; ʈɔpɔriʃə, nom pl ʈɔpɔriʃə ~ ʈɔpɔriʃə, gen pl ʈɔpɔriʃə; ɭɔɾɔʃiʃə, nom pl ɭɔɾɔʃiʃə ~ ɭɔɾɔʃiʃə, gen pl ɭɔɾɔʃiʃə. A minority of these nouns take {i} exclusively: ɭɪbîʃə ‘forehead’, nom pl ɭɪbîʃi, gen pl ɭɪbîʃi; ɭaɾɔʃiʃə ‘boot’, nom pl ɭaɾɔʃiʃi, gen pl ɭaɾɔʃiʃi. This is usual for animates: ɖɾuʃiʃə ‘friend’, nom pl ɖɾuʃiʃi, gen pl ɖɾuʃiʃi; ɲaɾiʃə ‘fellow’, nom pl ɲaɾiʃə, gen pl ɲaɾiʃə; ɖɔɾɭiʃə ‘wolf’, nom pl ɖɔɾɭiʃi, gen pl ɖɔɾɭiʃi.

The patterns of nominative plurals can be summarized in tabular form (Table 3.35).

Animate augmentatives like ɭoɭiʃə can adopt the morphology of Declension₉<II> in the less-than-standard register. Use of the genitive {t}, dative and locative {e}, and instrumental {oj} (orthographic «ей») is substandard, but use of the accusative in {u} is only less literary: ɭaɾɔ ɭoɭiʃi (Трешко ɭoɭiʃi (Только что видела здоровенного такого волчицу ‘I just saw such a healthy wolf’), which is analogous to ɭaɾo ɭoɭiʃi.

In general, these derived forms are subject to two pressures. On the one hand, they should inherit the gender of the ancestral noun. On the other, the suffixes push the derivatives towards specific declension classes. From this tension results
an unstable declension affiliation. It is interesting that the accusative singular in \{u\} stands out; it is the most characteristic feature of feminine nouns of Declension_{II}.

3.6.9 Accentual paradigms

Nouns have six patterns of accentuation, which are available to all declensions, but are attested with different numbers of nouns in different declensions (Table 3.36).

If the stress patterns and declension classes are arranged in a particular order, some generalizations about stress paradigms and declension classes emerge.\(^\text{28}\)

Those patterns in Table 3.36 in which stress falls consistently in the same place in both singular and plural, either root \{R_{SG} : R_{PL}\} or ending \{E_{SG} : E_{PL}\}, are evidently the most frequent patterns, and occur with the largest number of declension classes. Restricted are patterns in which there is a shift within one number, such as a shift between the nominative plural and the oblique plural, \{R_{SG} : E_{PL}(R_{NOM})\} and \{E_{SG} : E_{PL}(R_{NOM})\}. (The pattern in which there is alternation within the singular is the most archaic and restricted pattern of all.) Intermediate are alternations between the whole singular paradigm and the whole plural paradigm, the pattern \{R_{SG} : E_{PL}\} and its converse \{E_{SG} : R_{PL}\}.

If Table 3.36 is viewed from the perspective of the declension classes, we observe that Declension_{III_{A}}, at one end, basically holds stress on the root; it allows only limited end stress, when stress shifts to the end in the oblique plural (\{R_{SG} : E_{PL}(R_{NOM})\}). At the opposite end of the spectrum, Declension_{II} has shifting stress only when stress is basically on the end in the singular (archaic \{E_{SG} (R_{ACC}) : E_{PL}(R_{NOM})\} or newer \{E_{SG} : E_{PL}(R_{NOM})\}). Declension_{II} is the most tolerant of end stress and of variable stress. Declension_{I_{A}} and Declension_{I_{B}} are intermediate, with Declension_{I_{A}} more similar to Declension_{III_{A}} and Declension_{I_{B}} more similar to Declension_{II}.

\(^{28}\) Following Brown et al. 1996.
Table 3.36 Accentual preferences of nominal declensions

<table>
<thead>
<tr>
<th></th>
<th>Declension_{IIIa}</th>
<th>Declension_{Ia}</th>
<th>Declension_{IIr}</th>
<th>Declension_{II}</th>
</tr>
</thead>
<tbody>
<tr>
<td>{R_{sg} : R_{pl}}</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>{R_{sg} : E_{pl}(R_{nom})}</td>
<td>✓</td>
<td>±</td>
<td>*</td>
<td>*</td>
</tr>
<tr>
<td>{R_{sg} : R_{pl}}</td>
<td>*</td>
<td>±</td>
<td>±</td>
<td>*</td>
</tr>
<tr>
<td>{E_{sg} : E_{pl}}</td>
<td>*</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>{E_{sg} : R_{pl}}</td>
<td>*</td>
<td>*</td>
<td>±</td>
<td>±</td>
</tr>
<tr>
<td>{E_{sg} : E_{pl}(R_{nom})}</td>
<td>*</td>
<td>*</td>
<td>*</td>
<td>±</td>
</tr>
</tbody>
</table>

✓ = frequent
± = viable but somewhat restricted
* = very restricted, (almost) non-extant

The particular hierarchy of declensions seen in Table 3.36 – whether accidentally or not – matches another hierarchy, the preference for null ending in the genitive plural. Declension_{II} allows an overt genitive plural only in the rarest of circumstances, Declension_{IIr} a bit more frequently (an overt ending is a regular option for the class of derivatives in \{-c-\}); Declension_{Ia} strongly prefers an overt ending, but allows \{-θ\} in certain lexical fields. Declension_{IIIa} always has an overt ending.

3.7 Complications in declension

3.7.1 Indeclinable common nouns

Some nouns, especially foreign borrowings, do not inflect; they have one form regardless of the case–number in which the noun is used.\(^{29}\) (Native nouns that are in effect quotes are not declined: ул ‘name of the letter ‘у’, са ‘self, ego’, не-трон-меня ‘name of a flower’.) Whether a borrowing can be declined and what gender it has depends on how well it matches existing Russian patterns.

If a noun ends in a consonant, it is declined as a masculine noun of Declension_{Ia}. Declined are then: бомон ‘beau-monde’, рейхстаг ‘Reichstag’, флэ ‘flag’, англопоф ‘anglophobe’, макситаб ‘extent’ (< German Maßstab), донкихот ‘Don Quixote’, готентот ‘Hottentot’, курорт ‘Kurort’, панах ‘panache’. However, мисс ‘miss’ and мадам ‘madam’ are not declined because there is a mismatch between the feminine referential gender and the phonological shape, which looks like Declension_{Ia}. If a borrowing fits the pattern of Declension_{II}, it will be declined as a feminine member of Declension_{II}: сирена ‘siren’, морэна ‘moraine’, лемма ‘lemma’, лама ‘llama’, дилемма ‘dilemma’, стюардесса

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Nouns ending in {o} match the shape of neuters in Declension <Ib> but do not decline: páдьо ‘radio’, крéдо ‘creed’, либáдо ‘libido’, динáмо ‘dynamo’. The familiar words пальто ‘coat’ and метрó ‘underground’ are not declined in standard Russian (Маяковский вышел на сцену в пальто и шляпе ‘Mayakovský came out onto the stage in a coat and hat’), but are occasionally declined in the informal register; thus, в пальте appeared 150 xx out of 13,350 xx, or just 1 percent, on the web <20.X.02>.


The gender of an indeclinable foreign noun is determined first by animacy:30 if a noun refers to animate sexed beings, its syntactic gender is its referential gender, either masculine ([15]) or feminine ([16]):

The chimpanzee fled the zoo in order to drink some beer.

[16] «Знаки» , которыми пользовалась,фем дж шимпанзé Уошо через 22 месяца после начала обучения
“Signs” that the chimpanzee Washoe used 22 months after beginning training


Indeclinable nouns that do not refer to animate beings are generally neuter. All the indeclinable words ending in unusual vowels fit here (табó ‘taboo’, etc.). There are few exceptions to this rule. Two common nouns, кóфе ‘coffee’ and виски ‘whiskey’, are exclusively masculine in contemporary Russian (Где купить хороший кофе в зернах? ‘Where can one buy good coffee in beans?’). For some nouns, especially proper nouns, the gender in Russian is the gender of the Russian word that names the category to which the entity belongs. By this logic бéнгáли и зúлú are masculine, each being a язы́к ‘language’; мáни

‘miniskirt’, as a kind of ёбка ‘skirt’, is feminine. Токио and Тбилиси are masculine like сорог ‘city’. Колорадо can be feminine, if it is the река ‘river’ ([17]), or masculine, if it is the уезд ‘state’ ([18]):

[17] Под ним тянулся Каньон, по которому текла Колорадо.
Underneath stretched the Grand Canyon, along which flowed the Colorado.
[18] Было время, когда Колорадо в один день имел трех губернаторов.
There was a time when Colorado had three governors in one day.

Gender can be attributed to foreign phrases by the same technique, as in [19]:

Alaska Airlines has been declared the best airline with respect to the quality of its Internet service.

By definition, indeclinable nouns do not themselves show any distinctions of number. But adjectives and verbs agree with the singular or plural sense of these nouns in context: compare singular в своем немодном пальто ‘in his out-of-fashion coat’ but plural старушки носили истерпанные старомодные пальто ‘the old ladies wore worn-out old-fashioned coats’.

3.7.2 Acronyms
Acronyms that remain unassimilated are pronounced as a series of names of letters: ЭВМ [е.в.м0]. Unassimilated acronyms do not decline, but they have gender (that of the head noun) and number (as appropriate in context). Thus, feminine is used for the constituents of где ЭВМ ‘two computers’, к центральной ЭВМ ‘to the central computer’ because feminine is the gender of the noun of электронная вычислительная машина ‘electronic calculating machine’. ЕЭС is neuter, as in чтобы ЕЭС проводило социальную политику ‘in order that the EEC might implement its social program’, because Европейское Экономическое Сообщество ‘European Economic Community’ is neuter. СЭВ, for Союз Экономической Взаимопомощи ‘Society for Mutual Economic Assistance’, is masculine. Plural number is marked by agreement, as появилась достаточно надежные, мощные и недорогие ЭВМ ‘there appeared sufficiently reliable, powerful, and inexpensive computers’.

Some acronyms have been assimilated into common parlance, and are pronounced not as a series of names of letters but as a phonological word; for example, TACC is pronounced [тэас], not [тв.э.эс.эс0]. The noun is then assigned to a declension class according to its phonological shape and declined. Thus МИД, for Министерство Иностранных Дел ‘The Ministry of Foreign Affairs’, declines
(в стенах МИДа<sub>GEN SG</sub> ‘within the confines of MID’) and conditions masculine agreement (итальянский<sub>MSC SG</sub> МИД заявил<sub>MSC SG</sub> ‘the Italian Ministry of Foreign Affairs has announced’).

### 3.7.3 Compounds

Compounds are of two types. 31 If the second noun is semantically dominant and the first is a specifier, the second noun declines and determines agreement, while the first noun is inert, and does not decline. A плáц-палáтка is above all a палáтка<sub>FEM</sub>, which is further characterized as a плáц<sub>MSC</sub>.

Alternatively, the first noun may define the type, and the second noun the specifier. In икóль-интернат the more general category is икóля<sub>FEM</sub> ‘school’, which is specified as an интернат<sub>MSC</sub> ‘boarding school’. In this case, both nouns decline and the first noun determines the gender of adjectives (москóвской<sub>FEM SG</sub>), relative pronouns (кóторая<sub>FEM SG</sub>), and anaphoric pronouns (еë<sub>FEM SG</sub>):


### 3.7.4 Appositives

It is common to combine in apposition a common noun and a proper noun, where the common noun names the category to which the proper noun belongs. Two cases can be distinguished: (a) a personal name with title or occupation; and (b) a geographical name or a title of an artistic work used with a noun stating to what category it belongs.
When names and titles or occupations are combined, both parts decline: с генералом Власовым ‘with General Vlasov’, с врачом Верой Афанасьевной ‘with Doctor Vera Afanasevna’.

With geographical and genre names used in apposition, the syntactic gender is that of the common noun used to categorize the proper noun:

\[\text{Город, Москва преобразился.} \]

\[\text{The city of Moscow has been transformed.}\]

\[\text{Журнал, «Июнь» появился.} \]

\[\text{The journal «Youth» appeared.}\]

\[\text{Озеро, Байкал, глубоко.} \]

\[\text{Lake Baikal is deep.}\]

In such combinations, the category noun always declines (город ‘city’, журнал ‘magazine, journal’, озеро ‘lake’, роман ‘novel’). Whether the proper noun also declines depends on the category and how familiar the proper noun is. With город, proper nouns typically decline, детство в городе Воронеже ‘childhood in the city of Voronezh’, except exotic ones, в испанском городе Табернас ‘in the Spanish city of Tabernas’. With the category село ‘settlement’, place names that are presumed familiar can decline, as in в селе Котове, где я жил тогда ‘in the village of Kotovo, where I lived at that time’, but place names do not decline if the place is defined in bureaucratic style: Сдается в аренду фруктовый сад в селе Хилково ‘An orchard is to be leased in the village [that is called] Khilkovo’. In unconventional combinations proper names do not decline: в рабочем поселке Новосинеглазовский ‘the workers’ settlement of Novosineglazovsky’, оккупация сектора Газа ‘the occupation of the Gaza Strip’, на всемирно известном курорте Ипанема в Рио-де-Жанейро ‘at the world-famous resort of Ipanema in Rio de Janeiro’. Only the most familiar rivers decline, состояние реки Волги ‘the state of the River Volga’, через Москву-реку ‘across the Moscow River’ but берег реки Иордан ‘the shore of the River Jordan’. Variable is: Заражаена рыба и в сибирской реке Оби ‘Fish has been contaminated also in the Siberian river, the Ob’ but сульфиды меди в бассейне реки Обь ‘copper sulfides in the drainage of the river Ob’. Names of lakes do not decline in apposition: у берегов озера Ильмень ‘on the shores of Lake Ilmen’, мероприятия по охране озера Байкал ‘measures for the preservation of Lake Baikal’.

If the proper noun is marked or understood as a quoted phrase, it does not decline. Hence titles of artistic works used in apposition do not decline: в летнем номере журнала «Форин афферс» ‘in the summer issue of the journal Foreign Affairs’, в этом кабинете Достоевский работал над романом «Братья Карамазовы» ‘It was in this study that Dostoevsky worked on the novel The Brothers Karamazov’.
If these proper names are used by themselves, not in apposition, they do decline, and animate names of books are treated as animate: Я, например, не видел Байкала, разливает Оби в ее устье ‘I, for one, have not seen Baikal, the bay of the Ob at its mouth’; Начат работа над Войной и миром ‘Work was begun on War and Peace’; Несколько раз он даже цитирует Братьев Карамазовых и Идиота Достоевского ‘Several times he even cites The Brothers Karamazov and The Idiot of Dostoevsky’.

3.7.5 Names
With names of people, the gender is determined by reference. A name has feminine syntactic gender if it is used in reference to a woman, masculine if used in reference to a man. Whether a name is declined depends largely on how well its phonological shape matches the declension appropriate to the referential gender and how familiar the name is.

Native names: Most native Russian surnames have an adjectival suffix, and distinguish masculine and feminine forms in the singular, and decline. Such are: suffixed names in {-ov}: мс Борисов, фем Борисова; suffixed names in {-in}: мс Пушкин, фем Пушкина; suffixed names in {-sk}: мс Петровский, фем Петровская, мс Крупский, фем Крупская. Names formed with the suffixes {-ov} and {-in} have a declension mixed between adjectives and nouns. Those in {-sk-} have a fully adjectival declension. Other names have a pure nominal declension: nom sg Манделыштам, ins sg Манделыштамом, gen pl Манделыштамов, ins pl Манделыштамами. Surnames that are frozen genitive case forms do not decline: Черныш, Живаго.

Borrowed adjectival names: Names borrowed from other Slavic languages (Polish and Czech) that have an adjectival declension in the source language are treated like Russian adjectival names and decline, including in the feminine:

[25] так назвал Мицкевич Марию Шимановскую; биография Шимановской; that is how Mickiewicz dubbed Maria Szymanowska; the life of Szymanowska; с Шимановской

[26] матч 33-летней Эверт и 31-летней Навратиловой a match of the 33-year-old Evert and the 31-year-old Navratilova

These names decline regardless of how the nominative is spelled, whether according to the Russian fashion (usual for the masculine, Лапинский ‘Lapicki’, possible for the feminine, Каминская ‘Kamińska’) or the source language (possible
Foreign names ending in {-V}: Names of foreign origin that end in vowels other than {-a} do not decline, whether in reference to males or females:

- прекрасные рисунки испанского художника Сальвадора Дали: the wonderful sketches of the Spanish artist Salvador Dali
- убийство Джаона Кеннеди: the murder of John Kennedy
- фильм с участием Бриджит Бардо: a film starring Brigitte Bardot
- с живой Индиры Ганди: with the living Indira Gandhi

The prohibition covers surnames ending in {-ko} and {-enko}. Names of this type, though historically suffixed and historically of Slavic origin, generally do not decline in literary Russian, whether in reference to men ([31--33]) or women ([34]):

- колония А. С. Макаренко: the colony of A. S. Makarenko
- письмо Ходзько: the letter of Chodźko
- для Громыко: for Gromyko
- достижение, установленное год назад Ларисой Савченко и Светланой Пархоменко: the triumph, accomplished a year ago by Larisa Savchenko and Svetlana Parkhomenko

Still, informally these names can decline ([35–36]), especially in the plural ([37--38]):

- У Наumenки подлинник лежит: Naumenko has the original in her file.
- развод с Шилейкой: divorce from Shileiko
- По двору бегали и другие маленькие Кучеренки: Around the yard ran other little Kucherenkos.
- в одном доме с Горенками: in the same house with the Gorenkos

First names that end in {-o} decline according to Declension_{II}^{<_{IA}>}, if the final vowel is stressed, as in Петро́, Петра́, Петру́, Петро́м, etc., though there is a tendency toward non-declension. In nouns like Дана́ло, Миха́йло, the unstressed final vowel is pronounced as [ə], the same as an unstressed {a} in Declension_{II}^{<_{II}>}. In standard Russian, these nouns decline according to Declension_{II}^{<_{II}>} ([39]):

- Миха́йлу не уви́дел: от Михай́лы; к Михайле; с Михайло́й: [he] didn’t see Mikhailo; from Mikhailo; to Mikhailo; with Mikhailo

Kalakutskaja 1970.
Foreign names ending in {-C}: Names that end in consonants fit the expected shape of Declension$_{IA}$, which contains only masculine nouns. In reference to males (or mixed groups), such names, including foreign names, generally decline.

Included are stems which end in a palatalized consonant (ге Гольло) or [j] (Хемингуэй). An exception is monosyllabic Korean names such as Пак, Ким, not declined by a majority of speakers a quarter of a century ago.34

Names that end in a consonant do not have a feminine nominative singular form and cannot decline when used in reference to females:

In reference to men, these names decline: жена господина Тэтчера 'Mr. Thatcher's wife'.

The prohibition against declining women's surnames ending in a consonant holds also for names that have long been used in a Russian-language context. There is no distinct nominative singular feminine form for Гинзбург or Фигнер, and these names do not decline in reference to women:

Foreign names ending in {-a}: Names ending in {-a} are complicated. Some native roots and assimilated non-native roots are used as names, and they decline in reference to males: портрет ни более ни менее как самого Ягоды – главного...
а портрета нашей страны ‘a portrait of no one less than Iagoda himself – the main hangman of our country’.

Names ending in {-a} borrowed from other Slavic languages and assimilated names in {-a} decline in reference to men:

[49] фильм Вайды a film of Wajda
[50] за Сметаной after Smetana
[51] о Яне Жижке about Jan Žižka
[52] вмешательство Берии; the interference of Beria; murder by Beria;
убийство Берии; Берия арестовал Жуков Zhukov arrested Beria
[53] песни Окуджавы the songs of Okudzhava
[54] история Кудирки; Kudirka позвали к начальнику the story of Kudirkas; they called Kudirkas
тюрьмы in to see the head of the prison

With less assimilated foreign surnames used in reference to males, there is variation. Certainly many names decline:

[55] портреты Лорки portraits of Lorca
[56] правительство Патриса the government of Patrice Lumumba
Лумумбы
[57] перед полотнами Гойи before the canvases of Goya
[58] «Процесс» Кафки Kafka's Trial
[59] жали руку Труэб; the shook the hand of Trueba; agreement
соглашение с Труэбой with Trueba
[60] работа Иошимура; the work of Yoshimura; unknown to
неизвестно Иошимуре Yoshimura

but declension is not automatic for unfamiliar names.

[61] в работах Хидечуми in the works of Hidezumi Terazawa
Теразава

Occasionally, there is variation for a given name, within one text:

[62] Де-Перрегу освободили De Perregaux was freed before the end of
dосрочно. his sentence.
[63] номер Де-Перрега the hotel room of de Perregaux

Stress on the {-a} makes declension impossible, even in widely used nouns:

[64] «Три мушкетера» Дюма́ The Three Musketeers of Dumas
[65] в искусстве Эдгара Дега́ in the art of Edgar Degas
[66] творчество Золя́ the creative work of Zola
[67] дочь М.И. Петипа the daughter of M. I. Petipa
The trend is evidently towards non-agreement. A work from the turn of the previous century declined Lope de Vega ([68]) but contemporary speakers do not:

[68] влияние на Лопе де Вегу; influence on Lope de Vega; activity of Lope
dеятельность Лопе де Веги; de Vega; interest in Lope de Vega; written
интерес к Лопе де Веге; about Lope de Vega
написано о Лопе де Веге

In reference to women, only highly assimilated names in {-а} decline ([69] vs. [70–71]).

[69] биография Л.Н. Столицы the life of L. N. Stolitsa
[70] у Мальвы Ланда; Мальву in the possession of Malva Landa; [they]
Ланда вновь арестовали arrested Malva Landa again
[71] в творчестве М. Хэрма in the creative work of M. Harma
[72] вместо Карлотты Брианца; in place of Carlotta Brianca: to replace
заменить Карлотту Carlotta Brianca
{Брианцу ~ Брианца}

The accusative was actually used in [72], from a memoir written by the paramour of Nicholas I, but for modern speakers the accusative is only брианца for this famous ballerina.

Russian is generous with respect to first names that refer to females, and declines any noun whose nominative can be construed as ending in {-а} in Russian:

[73] А разве Пушкин не писал о Did not Pushkin write about Cleopatra?
Клеопатре?
[74] с Индирой Ганди with Indira Gandhi
[75] с Симоной Синьоре with Simone Signoret

Summaries of soap operas in the new Russian-American press decline the names of heroines Бекка, Эрика, Белинда, Франческа, because the nominative ends in {-а}, but they do not decline first names referring to women that end in consonants or vowels other than {-а}: Ракель, Опал, Хэйли.

The usage of surnames discussed above can be summarized in tabular form (see Table 3.37).

Overall, names decline to the extent they are understood to fit the Russian pattern of gender and declension. The different forms of gender need to line up: it must be possible to assign the noun to a recognizable declension class (formal gender), and the referential gender (male vs. female) must be appropriate for the declension class. Names ending in vowels other than {-а} cannot decline at all,
Table 3.37 Declension of surnames

<table>
<thead>
<tr>
<th>Russian surnames in {in}, {ov}</th>
<th>referring to a man</th>
<th>referring to a woman</th>
</tr>
</thead>
<tbody>
<tr>
<td>Slavic surnames in {a}</td>
<td>yes: Вайда, Глинка, Вечерка</td>
<td>yes: Навратилова</td>
</tr>
<tr>
<td>assimilated surnames in {a}</td>
<td>yes: Окуджава</td>
<td>rarely yes: Столица // usually no: Брианца</td>
</tr>
<tr>
<td>assimilated surnames in {C}</td>
<td>yes: Гинзбург</td>
<td>no: [Евгения] Гинзбург</td>
</tr>
<tr>
<td>Slavic surnames in {ič}, {uk}</td>
<td>yes: Галич</td>
<td>no: [Соня] Ганчук</td>
</tr>
<tr>
<td>foreign surnames in {C}</td>
<td>yes: Рейган, Джексон, Эйнштейн, Бюноэль</td>
<td>no: [Крис] Эверт</td>
</tr>
<tr>
<td>foreign surnames in {a}</td>
<td>often yes: Иошимура, Гойя, Лорка // no: Дюма</td>
<td>no: [Мина] Харма</td>
</tr>
<tr>
<td>Slavic surnames in {o}</td>
<td>no: Макаренко but pl yes: Кучеренки</td>
<td>no: [Лариса] Савченко</td>
</tr>
<tr>
<td>foreign surnames in {V}</td>
<td>no: Кеннеди, Дали</td>
<td>no: [Индира] Ганди, Сеньоре</td>
</tr>
</tbody>
</table>

because they fit no declension class; nouns ending in consonants cannot decline in reference to women, there being no feminine gender nouns in Declension<1a>. Perhaps paradoxically, foreign names in {a} often decline in reference to men, but not in reference to women – even though a noun in {a} would seem to be a perfect candidate for membership as a feminine of Declension<II>.
Arguments

4.1 Argument phrases

4.1.1 Basics
Predications are made up of various constituents: predicates, arguments (subject, direct object, domain, etc.), and arguments of time and circumstance.

The simplest and most familiar argument phrases are plain nouns or pronouns, but argument phrases are not always so simple. Nouns can be combined with modifiers – adjectives, participles, relative clauses – and result in phrases which are more complex than a bare noun but which are nevertheless equivalent to a noun. Nouns can have their own arguments – possessors or arguments that correspond to the arguments of predicates (subjects, objects, domains). Moreover, argument phrases can be combined with quantifiers or prepositions to form larger phrases, which in turn are equivalent to simpler argument phrases. Pronouns, seemingly minimal units, occur in the sites of arguments where nouns might occur. Part of the discussion below, then, concerns the internal structure of argument phrases: how argument phrases are put together out of nouns and other constituents.

Nouns and pronouns express case and number. Nouns belong to one or another of three genders. Gender, an intrinsic property of lexical items, is discussed here in this chapter (§§4.1.3–6), as is number, an operation that modifies the shape of nouns (§§4.1.7–9). Case is imposed on nominal elements by the syntactic context – by prepositions (§4.2) and by predicates (§5). The functions of case are summarized schematically here (§4.1.10).

4.1.2 Reference of arguments
The referential exponent of argument phrases – a noun or pronoun – names or refers to entities, whether persons, places, concrete things, masses of stuff, abstract essences, or happenings presented as entities.

Naming or referring to entities involves a number of processes at once, which can be grouped into two levels. The first is quantification. At the minimum, using a noun or pronoun establishes that there exists something worth talking
about, and using a noun or pronoun names at least some minimal property. In some instances, this rather minimal existential quantification is all that using a noun accomplishes. For example,

[1] Владимир ему рассказал, что у него есть младший брат.
Vladimir told him that he had a younger brother.

establishes the existence of an individual that fits the formula of being a younger brother.¹ This kind of minimal reference will be termed essential reference below, motivated in that what is known or relevant is that an entity manifests an essence (equivalently, belongs to a type), but little more is known about the entity as an individual. Essential reference is not marked consistently by any single device or referential exponent. Rather, it is a value, a sense, that arises in certain contexts, especially in contexts such as existential sentences ([1]). Additionally, essential reference is relevant to: the choice of relative pronoun, ктó vs. котóрый (§4.4.5), reflexive pronouns (§4.7), case choice with negated predicates (§§5.3, 5.4), animate accusative with approximate quantifiers (§4.3.9), ordinary numerals (год) vs. collectives (годо́е) (§4.3.8), possessive adjectives vs. genitives (§4.4.3).

Alternatively, a noun individuates not only when it establishes that there is an individual entity belonging to a type, but also when some properties of the individual are known that differentiate it from other members of the class.

Aunt Sasha taught me and my younger sisters.

In [2], the younger sisters are already known and differentiated from other sisters of other speakers, and this predication adds an additional property that holds of them (that they received instruction). The layer of quantification, then, includes the distinction between essential vs. individuated reference. This layer also includes number.

The second layer is contextual. To have knowledge about an individual, it is relevant to know on what occasions that individual exists, whether in all times and possibilities or only some. Thus reference has a temporal and modal side. It is also relevant to know what speaker is responsible for identifying the entity. And there is a textual side. Pronouns in particular indicate that an individual is known outside of whatever is being said at the moment; there might well be other properties that are already known about an individual. Pronouns tell

¹ “Essential” reference derives from Donnellan’s (1966) “attributive” meaning of referring expressions. As Donnellan observed, in Smith’s murderer must be insane, all we know about this individual is that he fits the formula ‘whosoever was responsible for the death of Smith’. On the notion of definiteness as it applies to Russian, see Revzin 1973[b], Chvany 1983.
the addressee how to find the source of information about the individual: the personal pronoun *I* says the individual is the speaker, while an ordinary third-person pronoun such as *she* says the individual is a salient entity of the feminine gender presumed to be known to the addressee (from the recent text, from the shared knowledge of speaker and addressee). Thus the second layer of reference is contextual. Pronouns in particular have the task of keeping track of individuals on the contextual level.

4.1.3 Morphological categories of nouns: gender

Russian has three genders: masculine, feminine, and neuter. A given noun belongs to one and only one gender, and does not change its form and become a noun of a different gender. The gender of a noun is revealed in agreement, when an adjective adopts a different form depending on the noun it modifies. Gender is further revealed in the past tense of verbs (when the noun happens to be the subject) and in the gender of relative pronouns and third-person pronouns. Gender in nouns is, then, a partition of the lexicon; it is a latent lexical property that is revealed as syntactic gender in adjectives and, additionally, in verbs and pronouns.

Nouns are partitioned into declensional classes, or morphological gender, which matches syntactic gender often but not always. Nouns in Declension $^{<\text{Ia}>}$ -- those with no ending in the nominative singular and {-a} in the genitive singular -- are syntactically masculine; adjectives that modify such nouns and past-tense verbs of which they are subjects adopt masculine form. Nouns in Declension $^{<\text{Ib}>}$ -- those ending in a vowel in the nominative singular and {-a} in the genitive singular -- are neuter. Declension $^{<\text{III}>}$ for all intents and purposes is feminine; other than feminine nouns, it includes only one masculine noun (нога ‘road’) and less than a dozen neuter nouns (those, like вре́мя ‘time’, ending in -мя in the nominative singular). Nouns in Declension $^{<\text{II}>}$ are generally feminine, with the significant exception of nouns that can refer to male human beings (дядя ‘uncle’, сю́дя ‘judge’, Серё́жа, Алёша, Боря). Overall, then, there is a high degree of correspondence between morphological gender (or declension class) and the syntactic gender of a noun (or agreement patterns in adjectives and verbs).

For most nouns there is no motivation for gender in the real world. But with nouns that refer to people or animals, gender is not just an arbitrary lexical idiosyncrasy; the syntactic gender relates to the sex (of referential gender) of the entity. There is more than one possibility. Many nouns that define people and animals as members of groups come in pairs related by derivation that differ in gender: учитель/учительница ‘teacher’, чемпион/чемпионка ‘champion’, сосёл/сосёлка ‘neighbor’, пенсионёр/пensionёра ‘pensioner’, волк/волчица ‘wolf’.
In such pairs, both nouns are stylistically neutral. With other words, the feminine has overtones of condescension to derogation: поэтесса ‘(lady) poet’, врачиха ‘doctor’, корректорша ‘copy editor’, библиотекарша ‘librarian’. The masculine in [3] is grandiose, the feminine in [4] familiar.

[3] ЛОЦМАНОМ КНИЖНОГО МОРЯ НАЗЫВАЮТ БИБЛИОТЕКАРИЯ ФАЙНУ А.
Pilot of the sea of books is what people call the librarian A. Faina.

[4] По ДРУГУЮ СТОРОНУ ОКОШКА СИДЕЛА БИБЛИОТЕКАРИЯ ВЕРА ИЛЬИННИЧНА.
On the other side of the window was sitting the librarian Vera Ilinichna.

Next, there are nouns for which masculine and feminine forms exist, but the forms are not parallel because the feminine form refers to a different social status (генеральша ‘general’s wife’), or to occupations that differ markedly in social status depending on the gender (секретарша ‘secretary’, математичка ‘student of math’, акушерка ‘midwife’), or to occupations stereotypically associated with women (телелефонистка ‘telephone operator’, дойльница ‘milkmaid’, медсестра ‘nurse’). Finally, some occupations are named by a single word form belonging to Declension

The use of paired nouns lacking strong stylistic overtones – учитель/ учительница ‘teacher’, писатель/писательница ‘writer’ – depends on context.2 Three contexts can be distinguished. The first context is that in which the individual members of the group are not distinguished, and sex is irrelevant or indeterminate. The masculine form is used in reference to a potentially mixed plural group ([5], [6]) or to any arbitrary single representative of a mixed or indeterminate group ([7], [8]):

[5] У ПРИШЕЛЬЦЕВ БЫЛИ СВЕТЛЫЕ ОТВОРОТЫ МЕХА НА ШЕЕ, ХАРАКТЕРНЫЕ ДЛЯ СТЕПНЫХ ВОЛКОВ.
The new arrivals had light folds of fur, as is characteristic of steppe wolves.

[6] ОЛЬГА НИКОЛАЕВНА МАСЛОВА, УЧИТЕЛЬНИЦА РУССКОГО ЯЗЫКА, В МОЕМ КЛАССЕ НЕ ПРЕПОДАВАЛА, Но ЕСЛИ КТО-ЛИБО ИЗ УЧИТЕЛЕЙ ЗАБОЛЕВАЛ, ОНА ЕГО ЗАМЕНИЛА И ЦЕЛЫЙ УРОК О ЧЕМ-ТО РАССКАЗЫВАЛА.
Olga Nikolaevna Maslova, teacher of the Russian language, did not actually teach in my class, but if some or another of the teachers fell ill, she would replace him and tell stories for the whole lesson.

[7] ТАЛАНТЛИВЫЙ УЧИТЕЛЬ СЯДЕТ С ДЕТЬМИ ПОД ДЕРЕВО, И ВОЗНИКНЕТ ЧУДО.
A talented teacher can sit down with children under a tree, and a miracle will happen.

[8] ОНА ВСЕГДА ГОТОВА БЫЛА ЗАМЕНИТЬ ЗАБОЛЕВШЕГО УЧИТЕЛЯ.
She was already ready to substitute for a teacher who had fallen ill.

The teaching staff of the gymnasium in [6] and [8] was de facto primarily women, but the masculine form is used because the sense of ‘teacher’ is essential: it is anyone who instantiated the essence of being a teacher. The fact that the masculine noun can be used to refer to groups or tokens of classes that include or might include females is one reason why masculine gender is said to be unmarked – that is, less narrowly defined, since it does not insist that the referent is male.

Second, when an individual woman is introduced into the discourse, the feminine form characterizes her permanent identity. The masculine defines a societal role (in [9], she is ‘the person fulfilling the role of supervisor’):

As a matter of fact, Sofia Veniaminovna, a geographer, is our class supervisor.

And third, when these paired nouns refer to an individual whose identity is already established, the feminine derivative is used ([10–11]):

[10] Учителяница поставила лампу на стол, чиркнула спичкой, зажгла свечу.
The teacher put a lamp on the table, struck a match, and lit a candle.
He gave me a note from the class supervisor to my parents.

Thus, when paired, stylistically neutral forms exist, the feminine derivative is used when it is clear that one specific woman is discussed as an individual.

When there is a noun in Declension $<_{IA}$ that names a profession and there is no corresponding feminine derivative in Declension $<_{II}$ (or no neutral form), the sole masculine form is used in reference to women. For example, in the index of a book on ballet, women are identified by feminine nouns when such exist, писательница ‘writer’, танцовщица ‘dancer’, учительница (русских сезонов) ‘participant (of the Russian troupes)’, солистка ‘soloist’, певица ‘singer’, художница ‘artist’. The women who are identified in this way have often served in other roles, which are described by nouns of Declension $<_{IA}$: a режиссёр ‘director’, хореограф ‘choreographer’, балетмейстер ‘ballet teacher’, вице-президент ‘vice president’, or теоретик танца ‘theoretician of dance’.

4.1.4 Gender: unpaired “masculine” nouns

Historically, when nouns like врач were used in reference to women, they evoked masculine agreement in both adjectives and predicates, but this has been changing. Using feminine agreement in the predicate in reference to a woman doctor has become permissible and frequent (reported in 1976 as over 50% in the cohort born between 1940–49):³

³ Kitaigorodskaya 1976; discussion in Rothstein 1971.
The doctor recommended limiting sexual activity.

Feminine agreement is expected when a name marks the individual as female:

The doctor O. Iu. Bespalova was also alarmed.

Adjectives make the picture more complex. In the conservative norm, masculine agreement is used in adjectives and predicates ([14](a)). In less conservative usage, now tolerated as normative, the predicate has feminine agreement, adjectives – masculine agreement ([14](b)).

(a) В комнату вошел, новый, врач.
(b) В комнату вошла, новый, врач.
(c) В комнату вошла, новая, врач.
(d) В комнату вошел, новая, врач.

Into the room entered the new doctor.

As a very new option, the adjective may also adopt feminine agreement ([14](c)); though not normative, feminine agreement in (у нас) хорошая, бухгалтер, ‘we have a good bookkeeper’ was offered by 39 percent of workers from the cohort of 1940–49. Feminine is possible only with descriptive or deictic adjectives and only in the nominative, as in [15]:

As our beloved doctor recommended.

Adjectives such as районный ‘regional’, семейный ‘family’, кожный ‘skin’ that are part of the definition of the profession are masculine ([16]):

The senior doctor of Moscow emergency care recommended.

The fourth hypothetical possibility above ([14](d)), the combination of a feminine adjective and masculine gender in the predicate, violates a general principle governing agreement: the more closely bound the constituent, the more agreement will be based on morphological gender; the less closely bound the constituent, the more agreement will be based on referential gender. The principle shows up further in relative clauses and the use of (third-person) pronouns, which choose syntactic gender on the basis of the reference of the noun. For example ([17]), in a discussion of Софья Григорьева, who has the responsibility

4 Kitaigorodskaya 1976:152. 5 Corbett 1979[b].
of being районный, санитарный врач, the predicate could use either gender, but the pronouns кото́рая and еë appear as feminine:

[17] Очень хорошо ко мне {относилась ~ относился} районный санитарный врач, {которая ~ *который} и зачастую меня кормила. А я для {ее ~ *его} мужа доставал в библиотеках нужные для его литературных исследований сведения.
The regional sanitation officer, who sometimes would feed me, treated me well. And for her husband I used to get information from the library needed for his literary studies.

4.1.5 Gender: common gender
There is another group of nouns that do not have distinct masculine and feminine forms but can be used regularly in reference to either males or females. It is the large, open-ended set of nouns of common gender (epicenes), nouns belonging to Declension II, often morphologically derived, that describe people in terms of some prominent quality or behavior: пла́ска ‘crybaby’, сомна́мбула ‘sleepwalker’, выпи́ваша ‘booser’, левши́ ‘lefty’, сирота ‘orphan’. Adjectives and verbs agree with the referential gender of the noun: masculine gender is used in reference to a man ([18–19]), feminine in reference to a woman ([20–21]).

[18] Мать в детстве привязывала его к стулу — он был страшный, непоседа, — чтобы он занимался музыкой.
His mother used to tie him to a chair — he was a terrible fidget — so he would practice his music.

[19] Бедный сирота мечтал служить во французском легионе, чтобы купить себе дом в Полтаве.
The poor orphan dreamed of serving in the French Foreign Legion, in order to buy himself a home in Poltava.

[20] Ей уже 8 месяцев. Она страшная непоседа и очень улыбчивая.
She’s eight months old. She’s a terrible fidget and loves to smile a lot.

The poor orphan had to make her own way in the world.

4.1.6 Morphological categories of nouns: animacy
Nouns that refer to animate beings indicate the animacy of the referent by using the genitive form in syntactic contexts that demand an accusative, whether as the object of a verb ([22]) or the complement of a preposition ([23]):

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6 It is said that when such a noun refers to a male, the adjective can have feminine agreement, and the stylistic effect is strongly pejorative. In practice, this option is rarely invoked.
My mother outlived my father by a lot.

My brother Vladimir was proud that he was similar to our father.

In the singular, use of this animate accusative or “ACC=GEN” is restricted to nouns that satisfy two conditions. (a) Animacy is expressed only by nouns that otherwise would merge nominative and accusative, hence not nouns like msc Tólya and msc судья ‘judge’, which are masculine but belong to Declension<II> and have distinct cases forms for the two cases: nom судья ≠ ACC судья.

(b) Animacy is expressed only by nouns that condition masculine syntactic gender, hence not by ёдина<fem nom=ACC> ‘daughter’, матери<fem nom=ACC> ‘mother’, дитя<nt nom=ACC> ‘child’, which do merge nominative and accusative but are not masculine:

Although the expression of animacy is restricted to masculine nouns in the singular, all animate nouns in the plural express animacy, including feminine and neuter animates:

Adjectives express animacy in the singular if the modified noun is masculine and animate: In this way adjectives modifying masculine animate nouns of Declension<II> express animacy, though the nouns themselves do not: Plural adjectives, which do not in any event distinguish gender, express animacy if they modify an animate noun of any gender: Adjectives also express animacy when they are used without an explicit noun, as a predicative referring to an object ([28]) or as a nominalized adjective ([29]):

The men were sent off hungry.

They arrested and exiled the most hardworking [peasants] with their families.

Personal pronouns use the genitive form for the accusative: ACC=GEN \( _{мени́}, \_тебё́, \_нас, \_себя́. \) Third-person anaphoric pronouns use the animate accusative even when they refer to inanimate entities:

For the most part, there is little variation in the expression of animacy. There are only two areas in which there is variation: first, certain pronominal adjectives modifying pronouns, and second, nouns that, in semantic terms, are not unambiguously animate.

\( \text{Сами́й `self'} \) is one of the few adjectives that can be combined with anaphoric pronouns. It adopts the genitive form when it modifies a masculine or neuter singular \( (\text{ее́, }_{\text{ACC}=\text{GEN}}) \) or plural pronoun \( (\text{их, }_{\text{ACC}=\text{GEN}}) \), even when the referent is inanimate ([(32–33)]):

Modifying a feminine pronoun, even one with animate reference, \( \text{самоё} \) uses a distinct accusative form, older \( \text{самоё} \) or contemporary \( \text{самъ}: \)

A true genitive would be \( \text{самоё́ её́} \) (само́й е́е́ нё́т `she herself is not here'). Modifying a personal or reflexive pronoun, \( \text{самоё} \) adopts the \( \text{ACC}=\text{GEN} \) form with a masculine singular or plural referent: \( \text{мсё́, менё́, самоё́} \) `me myself', \( \text{самоё́ себё́ `himself', пт нас сами́х `us ourselves', but фем менё́ самъ} \) `they rejected me myself'.

When \( \text{ всё́ `all'} \) modifies a singular third-person masculine or neuter pronoun, it adopts the \( \text{ACC}=\text{GEN} \): \( \text{все́ё е́ё́, even if the referent is not animate. With} \)
a feminine referent (even an animate referent), it uses the distinct accusative form ве́ч (35):

[35] Я ee_\text{acc=gen}_ \to вео_\text{acc\&gen} \ [=\text{птицу}] рассмотрел.
I examined her all [= the bird].

In the plural this combination expresses animacy: у́х ве́ч (ве́ч у́х) is used for animates, у́х ве́ч (ве́ч у́х), rarely ве́ч у́х, for inanimates:

[36] И {ве_\text{nom=acc} \to и_\text{acc=gen} \sim \text{все}_\text{acc=gen} \to и_\text{acc=gen}} \ [=\text{сона ты}] он разбирал —
as строки рифмуются, когда нужны рифмы женские, когда мужские.
And all these [=sonnets] he analyzed — how the lines rhymed, when feminine
rhymes were necessary, when masculine.

There are some lexical questions of animacy. Some nouns have two different
senses, one animate, one inanimate, and such nouns use either ACC=GEN or
ACC=NOM, depending on which sense is intended. Оригинал ‘original’ can be
an original thing (inanimate) or an eccentric person (animate). Член ‘member’
is animate in reference to a human participant of an institution, inanimate in
reference to an inanimate part of a machine or structure. These are instances
in which there are sharp distinctions between two senses of one noun.

With some nouns usage is less rigid. Names of sea animals are likely to behave
as animate when they refer to the entities as animals in their habitat, ловить
kра́бов _\text{acc=gen} ‘catch crabs’. As foodstuff, they may be inanimate or animate:

[37] Мы довольно часто ели \{крабы_\text{nom} \sim крабов_\text{acc=gen}\}.
We ate crabs rather often.

In the singular, they are animate (that is, merge accusative and genitive) even
as foodstuff:

[38] Я же остался один на хозяйстве. Сварил и съел кра́бов_\text{acc=gen}.
I had to deal with the housekeeping alone. I cooked and ate a crab.

There is variation in nouns whose motivation is historically figurative. Names
of planets (Ио́н) are becoming inanimate. Names of playing cards and chess
figures are animate.

Some nouns that refer to classes of animate beings show variation in the use of
the ACC=GEN. Особа ‘person’ and лицо ‘person’ are animate in the plural. (They
are disqualified in the singular because they do not belong to Declension \_<IA>_.)

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8 Blazhev 1962.
9 On the web <19.X.02>: {ловил \sim ловили \sim ловить} крабы 0хх, . . . крабов 205хх.
10 On the web: {ел \sim ели \sim есть} крабы 34хх, . . . крабов 105хх.
This law in essence will deprive people of other nationalities who speak Estonian poorly of the possibility of participating actively in the public life of the republic.

(Лицо also has the inanimate sense, ‘face, visage’.) Персонаж ‘character’ is (usually) inanimate in the singular and (almost always) animate in the plural. Nominalized neuter adjectives that classify living beings – животное ‘animal’, парнокопытное ‘split-hoofed animal’, насекомое ‘insect’ – generally do not use the animate accusative in the singular ([40]) but do so in the plural ([41–42]):

Существо ‘creature, being’ is listed as variably animate or inanimate in the plural.

The tendency is to extend animacy for such category nouns. Animacy fades out with lower orders of animals. A sampling is listed in Table 4.1. In texts, the boundary between animate and inanimate is sharper than Table 4.1 might suggest. Insects and small vermin (the first group) always use the acc=gen:

Губка ‘sponge’, listed as preferably animate, is used consistently with acc=gen in technical literature, even in contexts in which sponges are mere passive objects of investigation:

Table 4.1 Animacy of lower-order animals

<table>
<thead>
<tr>
<th>Animacy</th>
<th>Nouns</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Animate</strong></td>
<td>гусеница 'caterpillar', медуза 'jellyfish', шелкопряд 'bombyx', червь 'worm', моллюск 'mollusk', жук 'beetle', муравей 'ant', пиявка 'leech'</td>
</tr>
<tr>
<td><strong>Inanimate</strong></td>
<td>губка 'sponge'</td>
</tr>
</tbody>
</table>

In contrast, nouns of the third group in Table 4.1 use inanimate morphology consistently in texts, whether as objects of investigation (он давно изучает бактерии 'he has long studied bacilli'), as entities asserted to exist (содержащий бактерии 'containing bacteria'), or as patients of some agent's predatory activity ([46]):


In the normal course of events, defense mechanisms render such microbes inactive.

Animacy is expressed only when the microbes are thought of as potential agents, as in [47] (unique in a sample of two dozen examples from technical literature):

[47] Они в питательную среду микробов, они растут, потом их от питательной среды отделяют.

[They] put the microbes into the medium, they grow, and then they are separated from the medium.

One might entertain the thought that the animate accusative is a rule on the level of syntax – that the genitive case is assigned to the whole argument phrase in place of the accusative case. Arguing against this interpretation are several considerations: the modifier and the head in олень <nom=acc> ух <gen> and моего <gen> георги <acc/=nom> ‘my grandfather’ differ in the expression of animacy; animate accusative-genitives can be conjoined with unambiguous accusatives:

[48] Они червей и личинки.

They peck out worms and larvae.

On the assumption that case is uniform across all constituents and conjuncts of an argument phrase, then animate accusatives must be syntactic accusatives.
The animate accusative appears to be primarily a morphological phenomenon, whereby the accusative of the relevant paradigms is made identical to the genitive.\textsuperscript{14} This interpretation also fits with the fact that the application of the animate accusative depends on the specific paradigm involved.

4.1.7 Morphological categories of nouns: number

Ordinarily, a singular form means a single entity from the class and the plural form means two or more entities. The singular form can also be used in a generic meaning. The only complications in number concern nouns that are used in only one number and certain strategies for using number in ways that do not transparently match the real-world reference.

4.1.8 Number: pluralia tantum, singularia tantum

There is a small set of nouns that can occur only in the plural, the \textit{pluralia tantum} ножницы ‘scissors’, штаны ‘trousers’, сутки ‘day’. Historically, these are entities composed of paired parts. Because these nouns are already plural, to indicate more than one unit, it is necessary to use either collective numerals (три суток ‘three days’) or a classifier: три пары родителей ‘three sets of parents’, несколько пар саней ‘several sleighs’.

Nouns naming masses, by virtue of their meaning, are not likely to be used in the plural. Still, a plural can be used to show that masses come in various types (the “sortal” plural):

\begin{verbatim}
[49] Для каждого человека составлены индивидуальные биохимические карты по всем параметрам: сотни белков, ферментов, жиров, и сахаров.
For each person individual biochemical profiles are prepared along all parameters: hundreds of proteins, enzymes, fats, and sugars.
\end{verbatim}

Nouns naming abstract qualities or events, such as произведительность ‘productivity’ or великодушие ‘magnanimity’, are naturally singular, but occur in the plural if the quality is manifested as different types: превратности ‘perversions’, способности ‘abilities, talents’.

4.1.9 Number: figurative uses of number

A plural noun is said to achieve the effect of hyperbole when it is known that only one thing is involved, but it is unclear how productive this strategy is; the two most recent examples from the 1980s cited by one source involve университеты ‘universities’,\textsuperscript{15} a quote from Gorky.

\textsuperscript{14} Klenin 1983, especially 103. \textsuperscript{15} Brusenskaja 1992:44.
### Table 4.2 Uses of case

<table>
<thead>
<tr>
<th>Case</th>
<th>Function</th>
<th>Example</th>
</tr>
</thead>
<tbody>
<tr>
<td>NOMINATIVE</td>
<td></td>
<td></td>
</tr>
<tr>
<td>predicate argument</td>
<td>agent/subject</td>
<td>Мадонна, очень любила мать. Однако она умирает от рака. 'Madonna loved her mother. But she dies of cancer.'</td>
</tr>
<tr>
<td>predicative</td>
<td>if no temporal-aspectual-modal restriction</td>
<td>Он был герой, орденносец. 'He was a hero, a medal-wearer.'</td>
</tr>
<tr>
<td>preposition complement</td>
<td>missile classified in type (of people)</td>
<td>выйти в люди, 'go among the people'</td>
</tr>
<tr>
<td>accusative</td>
<td></td>
<td></td>
</tr>
<tr>
<td>predicate argument</td>
<td>patient/object</td>
<td>Это меня не слишком удивило. 'That did not surprise me much.'</td>
</tr>
<tr>
<td>predicative</td>
<td>state predicated of patient/object §5.2.4</td>
<td>'set him naked on an ass'</td>
</tr>
<tr>
<td>preposition complement</td>
<td>direction of missile towards locus §4.2.3</td>
<td>в 'into', на 'onto', о 'against', под 'under', через 'across', про 'through', etc.</td>
</tr>
<tr>
<td>genitive</td>
<td></td>
<td></td>
</tr>
<tr>
<td>predicate argument</td>
<td>argument of quantifying or negated predicate; partitive</td>
<td>Времени не хватало. 'There wasn’t enough time.'</td>
</tr>
<tr>
<td>predicative</td>
<td></td>
<td></td>
</tr>
<tr>
<td>preposition complement</td>
<td>frustrated contact of missile with locus §4.2.3</td>
<td>от 'away', go 'up to', оголь 'along', etc.</td>
</tr>
<tr>
<td>adnominal</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Case</td>
<td>Function</td>
<td>Example</td>
</tr>
<tr>
<td>--------------</td>
<td>---------------------------------------</td>
<td>-------------------------------------------------------------------------</td>
</tr>
<tr>
<td><strong>Dative</strong></td>
<td>goal of transfer of patient/object</td>
<td>Ей&lt;DAT&gt; платили стипендию. ‘They paid her a scholarship.’</td>
</tr>
<tr>
<td></td>
<td>goal of imposed modality</td>
<td>Нам.&lt;DAT&gt; надо быть готовыми к самому худшему. ‘To us is necessary to be prepared for the worst.’</td>
</tr>
<tr>
<td></td>
<td>movement towards locus §4.2.3</td>
<td>к ‘to(wards)’, etc.</td>
</tr>
<tr>
<td>Predicative</td>
<td>synecdochic relation of agent and</td>
<td>Они питались одним ржаным хлебом.&lt;INS&gt; ‘They lived on only rye bread.’</td>
</tr>
<tr>
<td></td>
<td>patient interaction</td>
<td></td>
</tr>
<tr>
<td></td>
<td>if state subject to</td>
<td>Сначала он был героем.&lt;INS&gt;, затем — врагом.&lt;INS&gt; ‘At first he was a hero, then — an enemy.’</td>
</tr>
<tr>
<td></td>
<td>temporal-aspectual-modal restriction §5.2.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>part of locus §4.2.3</td>
<td>между ‘between’</td>
</tr>
<tr>
<td>Adnominal</td>
<td>if analogous to predicate</td>
<td>циничное пренебрежение мнением.&lt;INS&gt; граждан ‘cynical neglect of citizens’ opinion’</td>
</tr>
<tr>
<td><strong>Locative</strong></td>
<td>missile located in vicinity of locus</td>
<td>Полк сосредоточился в лесу.&lt;LOC&gt; ‘The regiment was concentrated in the forest.’</td>
</tr>
<tr>
<td>Predicative</td>
<td>static contact of subject with locus</td>
<td>Я не был в Москве.&lt;LOC&gt; ‘I was not in Moscow.’</td>
</tr>
<tr>
<td>Preposition</td>
<td>static contact of missile with locus</td>
<td>в ‘into’, на ‘onto’, о ‘about’, при ‘in presence of’, по</td>
</tr>
<tr>
<td></td>
<td>§4.2.3</td>
<td>‘following on’</td>
</tr>
<tr>
<td>Adnominal</td>
<td>location of event nominal</td>
<td>сосредоточение полка в лесу.&lt;LOC&gt; ‘the concentration of the regiment in the forest’</td>
</tr>
</tbody>
</table>
Another not strictly transparent use of number involves situations in which there is a distributive relationship among a plural set of possessors and a set of possessed entities. Usually the plural is used ([50–51]):

[50] Они шли медленно, низко опустив голову<pl>. They walked slowly with their heads lowered.
[51] Красный Крест занимался судьбами<pl> только политических заключенных. The Red Cross was concerned with the fates only of political prisoners.

The singular means the possessed entities are not separate entities. A body part is not an independent entity but part of the predicate – in [52], the manner of locomotion:

[52] Они всегда движутся с опущенной головой<sg>, чтобы не испытывать лишнего сопротивления воздуха. They always move with lowered head, in order not to experience extra wind resistance.

With an abstract noun such as судьба, the singular can be used for plural individuals in an essential sense of ‘whatsoever the fate would be’ ([53]).

[53] Их увезли, и никогда она не узнала об их дальнейшей судьбе<sg>. They were led away and she never found out about their further fate.

4.1.10 Morphological categories of nouns: case
Case is expressed by nouns and other constituents of arguments, and in this respect is self-evidently a property of arguments. But case is chosen according to the way the argument fits into context. It is therefore natural to discuss the choice of case when the contexts for arguments are discussed, above all with predicates (§5). For reference, Table 4.2 lists the major uses of cases, with references to the discussion of uses elsewhere.

4.2 Prepositions

4.2.1 Preliminaries
Prepositions combine with nouns, imposing a case on the noun.\(^{16}\) Combinations of preposition and noun function as argument phrases. Semantically, prepositions locate a mobile entity – the missile – in a space of possible locations relative to a specific locus, the referent of the noun used with the preposition. For example, in Андрей развернул передо мной карты ‘Andrei spread out

\(^{16}\) Hill 1977 treats the expansion of ligature {n}. In those prepositions for which Hill observed variation, the Uppsala Corpus, composed of more recent texts, shows further generalization of {n}. 
maps in front of me", the missile is maps, which are distributed in space relative to the locus, the speaker’s field of vision. The space can be physical space, as in this instance, or more abstractly, a space of possible states. Thus in десятки геологов перед ней благоволели ‘dozens of geologists did obeisance before her’, the missile is the geologists or, better, their behavior, which adopts a certain attitude (reverence) in the presence of the locus.

How prepositions behave depends on how old they are. The oldest, **primary**, prepositions in effect define what we think prepositions should be.

17 Xthtp is said to have two variants, a stressed variant implying devoicing before a following sonorant or vowel (чере́з неско́лько ми́нут [чёрэ́з нэ́сколько ми́нут] ‘after several minutes’) and an unstressed variant without devoicing (чере́з око́ло [чёрэ́з око́ло] ‘through the window’).
Like primary prepositions, root prepositions are generally not used alone as adverbs (exceptions: мimo, кругaм). Most govern the genitive (exceptions: сквозь<_acc>, между<_ins>). As a class, they are phonologically more autonomous than primary prepositions, in that most are stressed, and some have two syllables. They count as phonological words, inasmuch as final voiced obstruents are devoiced before words beginning with vowels or sonorants: сквозь морозный туман [sм] ‘through a cold fog’, сквозь очки [sА] ‘through glasses’. Almost all root prepositions use the {n} ligature. Only вне has resisted: вне ee ‘outside of her’. Negative particles ни and нè and pronominal кoe are generally anomalous in either order: *ни близ чего, *близ ничего, *ни кроме каких, *кроме никаких, *кое кроме чего (but кроме коечего ‘except for something or another’, ни между какими иными областями ‘not between any such other areas’). The exception is для (ни для кого, кое для чего). This preposition, whose only vowel is not stressed and undergoes reduction, might be considered to have moved into the class of primary prepositions.

Next come a large number of prefixal prepositions, etymologically a prefix or preposition and a case form of a noun. Some govern the genitive, others the dative case.

[56] Prefixal prepositions (governing genitive)


[57] Prefixal prepositions (governing dative)

вслед ‘after’, повстречу ‘towards’, вопреки ‘against’

Prefixal prepositions often have more than one syllable and are stressed (implying devoicing of obstruents before following sonorants and vowels: вокруг мест [km] ‘around the place’). Some can be used independently without a noun; some of those that take the dative can follow the noun: пошла мне повстречу (possible) ‘she came towards me’, смотря ей вслед (usual) ‘I follow her with my eyes’. Negative particles (ни, нè) and кое are anomalous in either order (*ни около чего, *около ничего, *кое около каких, *около кое-каких). Prefixal prepositions split in the way they use the ligature {n}. Those governing the dative do not use {n} (вслед ей ‘after him’) and seem doomed never to develop {n}, while those governing the genitive have generalized the {n} ligature, in some instances quite recently. As late as the nineteenth century, some common prefixal prepositions did not use {n} consistently: вокруг 15 percent without {n}, около 25 percent without {n}. Both finished generalizing {n} during the course of the twentieth century. (Междю also generalized {n} in the early part of the twentieth century.)
The last to go is внутрі, which in the first half of the twentieth century still used {n} only half of the time; it now uses {n} consistently.

After prefixal prepositions follows an open group of words or phrases that are used as prepositions, in that they occur with a noun and impose a semantic operation on the noun. Some are phrases composed of preposition and noun (по поводу ‘on the basis of’, во время ‘during’, в отношении ‘in relation to’, в числе ‘among, in the number of’). Others are developing from gerunds (благодаря ‘thanks to’, несмотря на ‘despite’), and, possibly, comparatives (перед ‘before’, раньше ‘earlier’, позже ‘later’). These new convert prepositions generally do not elicit the {n} ligature, except in less than standard Russian: раньше него ‘earlier than him’ (2,080 xx on the web), в отношении него ‘in relation to him’ (7,160 xx on the web).18

Prepositions can be arranged in a list by group, with the properties that are characteristic of the groups as a whole (Table 4.3). The older the preposition, the greater number of the characteristic properties of prepositions it has.

### 4.2.2 Ligature \{o\}

Primary prepositions sometimes add a ligature vowel \{o\} to forestall clusters that might arise when the final consonant of the preposition meets the initial consonant(s) of the next word.19 Whether \{o\} is used depends on how idiomatic the combination is and on the phonological properties of the impending cluster.

Other things being equal, \{o\} is more likely to be used if the combination of preposition and head word is conventional and idiomatic: в стороне ото всех ‘off to the side of all’ still preserves the vowel even when it is lost in novel combinations, отличен от всех других ‘distinct from all others’. Roots can be ranked according to the criterion of idiomaticity. The two pronominal roots

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18 Via Google (<15.IX.02>). 19 Rogozhnikova 1964.
Table 4.4 Prepositions and ligature \{o\}

<table>
<thead>
<tr>
<th>preposition</th>
<th>pronoun мн, вс, quantifier мног, втор</th>
<th>non-syllabic nominal root лб, гн, рг-, льг</th>
<th>same place and manner of articulation</th>
<th>other clusters</th>
</tr>
</thead>
<tbody>
<tr>
<td>o(o)</td>
<td>во мне, во многих, во всей, во втором, во что, во сколько</td>
<td>во сне, во льду, во рту</td>
<td>во время, во взаимодействии, во Владимире, во взглядах</td>
<td>в стремя, в своей жизни, в Днепр, в стране</td>
</tr>
<tr>
<td>c(o)</td>
<td>со мной, со всеми, со всех, со многими, со вторым</td>
<td>со лба, со дня, со дна, со льдом, со львинными, со сном // с ржавчиной</td>
<td>со своей, со скрипом, со сцены, со спином, со средой, со знанием // с глинями</td>
<td>со двора (с двумя) // с глинным, с кладбища, с благодарностью, с племянницей, с влаги (со вложенным между ными клином)</td>
</tr>
<tr>
<td>k(o)</td>
<td>ко мне, ко всему, ко второму, ко многим</td>
<td>ко сну, ко дню, ко дню // к дням</td>
<td>ко Христу, ко Клименту // к классицизму, к Клавдии, к храниению</td>
<td>ко двору, ко вдове, ко времени // к элекачеству, к знанию, к своей, к снижению, к глиному, к двери, к вранам, к тум</td>
</tr>
<tr>
<td>над(o), под(o) передо мной, подо мной // перед всем, перед многими проблемами</td>
<td>подо льдом (под льдом и снегом), над(o) лбом, перед сном, под сном</td>
<td>над дверями, над друзьями</td>
<td>над страной, перед властью, перед встречей, перед признанием, перед хмурым мужчиной</td>
<td></td>
</tr>
<tr>
<td>над(o), под(o) передо мной, подо мной // перед всем, перед многими проблемами</td>
<td>подо льдом (под льдом и снегом), над(o) лбом, перед сном, под сном</td>
<td>над дверями, над друзьями</td>
<td>над страной, перед властью, перед встречей, перед признанием, перед хмурым мужчиной</td>
<td></td>
</tr>
<tr>
<td>из(o), от(o) из всех (изо всех сил), от всех (а стороне ото всех), из всего, от многих, от второго</td>
<td>изо рта, изо дня в день, ото рта, ото дня // от рта</td>
<td>из глины, от двора, из гула, от знания, от другого, от трубы, от друзей</td>
<td>от времени, от пруда, от плохого, от взрослых, от книжки</td>
<td></td>
</tr>
<tr>
<td>o(б(o))</td>
<td>обо всем, обо мне, обо что-то ударился</td>
<td>обо льде (об лед)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
& and весь (вс) are the most likely roots to elicit the ligature, then come quantifiers & и второй. Other roots, even if they have the same phonological structure, are less likely to use the ligature: со мои (с мной) ‘with me’ > со множеством (с множеством) ‘with many’, (с множеством) с множеством ‘with a set’ > (с мнением), с мнением ‘with the opinion’, с многолетним ‘with many-year’.

The use of {o} also depends on the phonological structure of the potential cluster at the juncture of preposition and word. Two considerations are relevant. First, inasmuch as the ligature compensates for a shortage of vowels, the vowelless prepositions а, с, к use the ligature more than those that have a vowel, such as на, из, от, под; disyllabic перед is the least likely of all (only передо мной).

The ligature is likely to occur before roots that lack a vowel (in oblique cases): лоб/лб ‘forehead’, рот/рт- ‘mouth’, день/дн- ‘day’, гон/гн- ‘bottom’, сон/сн- ‘dream’. Second, the nature of the potential cluster is relevant. The ligature dissimilatively separates consonants that are similar in place and/or manner of articulation (с оцену ‘from the stage’, ко Христу ‘to Christ’). Some combinations are illustrated in Table 4.4.

The ligature vowel is preserved in Slavonic idioms: во имя ‘in the name’, во избежание ‘in avoidance of’ (otherwise: в историю ‘into history’, в избушку ‘into the hut’), во главе ‘at the head of’ (otherwise: в главном ‘in the main’).

О(б(о)) has three forms. Plain о is the most general form. At the opposite extreme, обо occurs only in: обо мне ‘about me’, обо всем ‘about everything’, обо лье ‘about the ice’ (or now, о льд). Об occurs with a following vowel, regardless of what part of speech the word belongs to: об этом ‘about that’, об охране ‘about a guard’, об опасной тенденции ‘about a dangerous tendency’, об угрозе ‘about a threat’, об изобилии ‘about an abundance’. Words beginning with Cyrillic «е» are pronounced with [j] before the vowel. In recognition of this consonantal [j], words beginning in «е» take о rather than об by a ratio of seven to one: о ее существовании ‘about its existence’, о единстве ‘about unity’, though переписка об ерунде ‘correspondence about nonsense’, доклад об его установке ‘report about its installation’. There are exceptions, in both directions, that relate to idiomaticity. Об occurs in idioms: как рыба об лёг ‘like a fish out of water [against ice]’. But the consonant in об can fail to appear before и when it is the first vowel of a participle, an unidiomatic combination: о имеющихся резервах ‘about the available reserves’.

4.2.3 Case government
A preposition determines the case of the noun phrase with which it combines. Many prepositions govern only one case. Different prepositions that govern the

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20 Examples primarily from the Uppsala Corpus.
same case have some similarity in meaning. The exposition below is organized according to cases.

**Dative:** The primary preposition \( \kappa \) is the dative preposition par excellence: it presents the locus (the dative noun) as a goal or final destination for change in the position of the mobile entity; it governs the dative and only the dative.

A number of newer prepositions govern the dative (вопреки ‘contrary to’, благодаря ‘thanks to’, согласно ‘consistent with’, соответственно ‘corresponding to’, назло ‘in spite’). The dative expresses a directed relationship between the missile and the locus.

The primary preposition \( \text{по} \) occurs with three or arguably four cases. In its old meaning of distribution over space or time, it used the dative: \( \text{по улице} ‘along (different points in) the street’, \text{по средам} ‘on (successive, one-after-another) Wednesdays’). When a missile is distributed in groups of a certain quantity – one, two, thirty, etc. – \( \text{по} \) once took the dative, which still occurs with units: \( \text{по (одному) карандашу ‘one pencil per . . .’} \) (§4.3.11).

**Genitive:** Primary prepositions governing the genitive portray a missile in the vicinity of the locus, but the contact is less than complete in some way. \( \text{До} \) expresses an approach to the locus that falls short of the destination, while \( \text{для} \), more abstractly, states a modal destination – the locus is something whose well-being is intended to be affected. \( \text{С ‘from off’, \textit{из ‘out of’, \textit{от ‘away from’ indicate the removal of a missile from the vicinity of the locus, as do the compound prepositions \textit{из-за ‘out from behind’ and \textit{из-под ‘out from under}. \textit{У ‘nearby, chez’ reports a relation in the neighborhood, or sphere of influence, of the locus.}

Many root and prefixal prepositions take the genitive. Like the primary prepositions that take the genitive, they also present a situation in which the missile is located in the vicinity of the locus but does not come into complete contact: \( \text{вдоль ‘alongside’, вблизи ‘near to’, посреди ‘in the middle of’. \textit{Между ‘between’}, though it generally uses the instrumental, still uses the genitive to express a position between two paired and parallel entities (\textit{межу строк ‘between the lines’, \textit{между стволов сосен ‘between the trunks of the pines’).}

**Locative:** Prepositions that use the locative establish that the mobile entity is in contact with the locus: \( \theta ‘in, at’, location at a punctual locus; \( \text{на ‘on, at’, location on a surface; \( \theta, location in contact in a space encompassing the locus; \text{при ‘in the presence of’, coincidence and contact, as opposed to absence of coincidence, in a domain; the domain can be spatial (\textit{при городских домах ‘with city houses, при станции ‘at the station’) or temporal-modal (\textit{при Екатерине ‘during the time of Catherine the Great’, \textit{при погрузке ‘during loading, при новолунии ‘during a new
moon'). На ‘upon, after’ with the locative expresses location in the immediate temporal and causal wake of some event (на приезде ‘upon arrival’).

Only the oldest, primary, prepositions take the locative. На and на take another case along with the locative. When the missile moves toward and comes into contact with the locus, в and на govern the accusative. О(ед) does as well, in the sense of contact against a surface: волны разбиваются о скалы ‘waves beat against the cliffs’. The distributive sense of на with the dative was mentioned above.

**Instrumental:** The instrumental is used with с in the sense of contact with the locus; and more than mere contact, с means that the missile and the locus play similar roles in the state or event.

The instrumental is used with four prepositions that express position on one of the planes of a three-dimensional object: на ‘on top of’ and its opposite под ‘underneath’, за ‘behind’ and its opposite перед ‘in front of’. Only primary prepositions can take the instrumental, except for между.

**Accusative:** Few prepositions use the accusative exclusively: про ‘through’, через ‘through, over’, сквозь ‘through’. Newer prepositions do not adopt the accusative.

The accusative expresses motion with в, на, о, which otherwise take the locative. In a similar fashion, the prepositions that take the instrumental to describe static position on the perimeter of the locus – на, под, за, перед – once expressed motion towards by using the accusative, but this usage has been fading. Перед and под take the instrumental: Я встал перед ним, на колени ‘I knelt before him on my knees’ (where на колени has the accusative of motion), поднять под его головой ‘to raise the wreath over her head’. Под can still take the accusative: заалезали под кровати ‘[they] crawled under the beds’; я их клал под матрас ‘I placed them under the mattress’; idiomatic попадаться под руку ‘to come under the hand of’; она шла под руку с ним ‘she walked arm-in-arm with him’. With за, the instrumental expresses either a static position behind the locus, ходил за нею ‘he walked behind her’, or adopting a position behind the locus, кто-то побежал к калитке, он бросился за ним ‘someone ran up to the gate, he hurried after him’ (though: пересесть за другой стол ‘to sit at another table’).

Под and за use the accusative in a range of idioms. With под with the accusative, the locus can be understood as a model for the missile (под мрамор ‘like, as if marble’), as an adapted function (оборудовали под театр ‘they fixed it as a theater’, сняли под гачу ‘they rented it to serve as a dacha’), as a framework for an activity (или под гитару ‘they sang to the guitar’; под раскаты аплодисментов ‘to torrents of applause’), or as a boundary
of incomplete approach (ног пятьдесят<acc> ‘coming up on fifty years of age’; 
ног конец<acc> письма ‘near the end of the letter’). За uses the accusative to express: modal cause (вина за неудачи<acc> ‘fault for the failures’); on behalf of, in exchange for (клопотать за женщину<acc> ‘to make efforts on behalf of the woman’; дядя получил за оперетту<acc> небольшой гонорар ‘uncle received a small payment for the operetta’); interval of time or space over which something significant happens (за несколько<acc> минут ‘over the course of several minutes’; за несколько<acc> шагов въехался гым ‘at a distance of several steps smoke was visible’; за час<acc> го обеда ‘an hour before dinner’; за три<acc> дома до угла ‘three houses before the corner’).

С with the accusative expresses an approximate measurement: с недель<acc>
-другую ‘for a week or maybe two’; взмахнула черными ресницами (каждая со 
спичку<acc> толщиной) ‘she fluttered her eyelashes (each the thickness of a 
matchstick)’.

По uses the accusative to express the final, inclusive boundary of an interval 
of time or motion: с осени 1927 по весну<acc> 1929-го года ‘from the fall of 1927 
through the spring of 1929’, по другую сторону<acc> ‘over on the opposite side’. 
По has come to use the accusative in its distributive sense with most numerals 
other than single units.

Nominative: While it might seem inconceivable to use the nominative case with 
prepositions, what is apparently the nominative case is used in two idioms: что 
это за ерунда<nom> ‘what is that for nonsense’ and выйти в люди<nom> ‘go among 
the people’ (the nouns are not fixed). In the latter, the nominative, if it is that, 
is a residual carry-over from a time when complements of prepositions had not 
yet adopted the merger of accusative and genitive with animates.

4.2.4 The use of на and в

B and на both express the location of a missile in contact with the locus. To a 
large extent, the choice between the two is determined by the meaning of the 
noun that names the locus. B can be considered the more general. На expresses 
contact of a missile with a physical locus conceived of as a surface, as something 
more than a one-dimensional point and as less than a three-dimensional con-
tainer: на Эльбрусе ‘on Elbrus’, на стенах ‘on the walls’, на Северном Кавказе 
in the Northern Caucasus’, на веранде ‘on the veranda’, на улице ‘on the street’, 
на альпийских лугах ‘in alpine meadows’, на полу ‘on the floor’, на плато ‘on 
the plateau’, на периферии ‘on the periphery’, на разных континентах ‘on vari-
ous continents’, на Луне ‘on the moon’, на втором этаже ‘on the second floor’, 
на траве ‘on the grass’, на кладбище ‘in the graveyard’, на Марсе ‘on Mars’, 
на маленьком острове ‘on a small island’, на наших экранах ‘on our movie
screens'. Layered surfaces take на: на дне ‘on the bottom’, на поверхности ‘on the surface’.

By association, the locus of на, being a surface, is a place where activity occurs: на базаре ‘at the bazaar’, на вокзале ‘at the station’, на почте ‘at the post office’, на солнце ‘on the sun’, на пути ‘on the journey’, на рынке ‘at the market’, на Карельском фронте ‘on the Karelian front’, на совести ‘on one’s conscience’. Often the sense of activity overshadows the physical location: на форуме ‘at the forum’, на фестивале ‘at the festival’, на собраниях трудящихся ‘at meetings of workers’, на заседании ‘at the meeting’, на недавней премьере ‘at a recent premiere’. Eras are also sites where events occur: на протяжении ‘throughout the course’, на первых порах ‘at the beginning’, на этой стадии ‘at this stage’, на нынешнем этапе ‘at the current stage’, на старости ‘in old age’. Thus, на expresses location on a surface, and, abstractly, the site of activity.

External body parts are surfaces where activity occurs or missiles come into contact with the person: с сумкой на боку ‘with a purse on the side’, ружье на плече ‘a rifle on the shoulder’, на бедре ‘on the hip’, на ее спине ‘on her back’, на его голове ‘on his head’, на глазах ‘in the eyes’, на собственной шкуре ‘on one’s own skin, risk’.

Vehicles and the associated activity of locomotion are a special case. One can travel на борту ‘on board’, на парашютах ‘by means of parachutes’, на корабле ‘on the ship’, на его велосипеде ‘on his bicycle’, на электричке ‘on the suburban train’, на машине ‘in a car’. Conveyances, however, can sometimes be viewed as containers in which missiles can be located: В машине сидели полковник и лейтенант ‘in the car there sat a colonel and lieutenant’; мне предложили одно место в машине ‘I was offered a place in the car’.

Thus to a large extent, the choice between в and на is determined by the noun, though some nouns, like the words for conveyances, can use both prepositions. Кухня is another such noun. В кухне makes the locus a unit of architecture. It can be one part of a whole that is opposed to other, analogous, parts of the whole:

[58] Таким образом, мы могли говорить, что у нас четыре комнаты. В первой за перегородкой обосновались Владимир и я, в кухне за печкой спала Лена, в большей комнате жили обе мои старшие сестры.
Thus we could say we had four rooms. In the first behind the partition Vladimir and I were based, in the kitchen behind the stove slept Lena, and in the large room lived my older sisters.

Here the kitchen is one room, one unit in a set of rooms, each containing inhabitants. With в, the kitchen is one unit among many, and it can itself contain parts: в кухне стояло восемь столов ‘in the kitchen there stood eight tables’. Thus using в кухне is thinking in synecdoche – in parts and wholes. На
Table 4.5 Triplets with на, в

<table>
<thead>
<tr>
<th>Location motion towards motion away</th>
</tr>
</thead>
<tbody>
<tr>
<td>на&lt;sub&gt;loc&lt;/sub&gt; , в&lt;sub&gt;loc&lt;/sub&gt;</td>
</tr>
</tbody>
</table>

Мясо на базаре <sub>loc</sub> не было.  
‘There was no meat at the bazaar.’

‘— Так вы поидите на базар <sub>acc</sub> и купите себе другого цыпленька.
— So go to the bazaar and buy yourself another chic.’

Люди сидели на кухне <sub>loc</sub>.  
‘People sat in the kitchen.’

Всю войну жили они в соседнем селе <sub>loc</sub>.  
‘The whole war they lived in the next village.’

В кухне <sub>loc</sub> за печкой спала Лена.  
‘Lena slept in the kitchen behind the stove.’

Перешли в кухню <sub>acc</sub>.  
‘They went into the kitchen.’

Кухня is a plane with no precise boundaries; it is a theater where life happens, as in [59] and Osip Mandelshtam’s poem [60]:

[59] И вот эти чужие люди сидели на кухне, ели, пили, смотрели сочувственно, что-то вспоминали.  
And those strangers sat in the kitchen, eating, drinking, looking sympathetically, recalling something.

[60] Мы с тобой на кухне посидим. / Сладко пахнет белый керосин.  
Let’s you and I sit together in the kitchen. / With the sweet smell of white kerosene.

Both в and на express static location. As noted above, the accusative expresses motion towards the locus. Corresponding to each sense is a distinct preposition governing the genitive, resulting in triplets (Table 4.5): c, removal from a surface, is paired with на, location on or motion onto a surface, and из, exit from a container, is paired with в, location in or motion into a container.
4.3 Quantifiers

4.3.1 Preliminaries

Quantifiers are operators which, by applying to nouns, impose a count, whether exact or approximate, on the entities involved. (If no noun is used with the quantifier, the entities that are counted are determined from the context.) Combinations of quantifiers and nouns behave as argument phrases, and can be used as subjects or oblique domains, and so on. Quantifiers have some properties that allow them to be grouped together, and at the same time, there are differences, especially morphological, among them (see Table 4.6). The bulk of the quantifiers, in the middle of Table 4.6, can be termed general numerals.

In addition, it is necessary to distinguish between numerals that occur without other numerals and complex numerals, those composed of more than one numeral: двадцать три ‘twenty-three’, двести пятьдесят ‘two hundred fifteen’, тысяча триста дев’ять ‘one thousand three hundred two’. Ordinal numerals, not considered further here, do not impose case on the quantified noun; they are pure adjectives modifying the noun. In complex ordinals, all but the final component are invariant (or nominative) forms of the numeral, and only the final component is an adjective: я перешагнул грани сто девяностого года ‘I have crossed the boundary of the hundred ninetieth year’, ты родился в (тысяча десятьсот) пятьдесят втором году ‘you were born in (nineteen) fifty-one’. As in the last example, dates are expressed with ordinals. In general, ordinals themselves are pure adjectives, and do not require further attention.

It will be useful to begin with general numerals.

4.3.2 General numerals

Quantifier phrases, and numerals in particular, behave differently depending on whether the case of the whole phrase is direct – nominative or accusative – or an oblique case.

In an oblique case, quantifiers act as modifiers, adopting the same oblique case as the noun: genitive ([61]), dative ([62]), locative ([63]), instrumental ([64]):

[61] необычная форма пневмонии у пяти, молодых мужчин

an unusual type of pneumonia in five young men

The basic text is Mel’chuk 1985[a]. On the nature of the constituency, see Corbett 1993. Halle 1994 has a rule of Concord that applies to oblique quantifiers but does not apply to quantifiers in nominative or accusative, which instead use the default genitive. General numerals are said to be nouns, paucals adjectives. Franks 1995 treats the formal description of quantifier argument phrases.
### Table 4.6 Types of quantifiers

<table>
<thead>
<tr>
<th>quantifier type</th>
<th>examples</th>
</tr>
</thead>
<tbody>
<tr>
<td>singleton</td>
<td><em>один</em> ‘one’, [plural] ‘some’</td>
</tr>
<tr>
<td>paucal</td>
<td><em>мало</em> ‘few’, <em>немного</em> ‘some’, <em>мало</em> ‘few’</td>
</tr>
<tr>
<td>high integers &amp; teens</td>
<td><em>пять</em> ‘five’, <em>десять</em> ‘ten’, <em>десять</em> ‘eleven’, <em>десятят</em> ‘nineteen’</td>
</tr>
<tr>
<td>low (non-compound) decade</td>
<td><em>двадцать</em> ‘twenty’, <em>тридцать</em> ‘thirty’</td>
</tr>
<tr>
<td>high (compound) decade</td>
<td><em>пятдесят</em> ‘fifty’, <em>шестьдесят</em> ‘sixty’, <em>семьдесят</em> ‘seventy’, <em>восемьдесят</em> ‘eighty’</td>
</tr>
<tr>
<td>round</td>
<td><em>сорок</em> ‘forty’, <em>сто</em> ‘hundred’, <em>девяносто</em> ‘ninety’</td>
</tr>
<tr>
<td>compound low hundred</td>
<td><em>двести</em> ‘two hundred’, <em>трёста</em> ‘three hundred’, <em>четыреста</em> ‘four hundred’</td>
</tr>
<tr>
<td>compound high hundred</td>
<td><em>пятьсот</em> ‘five hundred’, <em>девятьсот</em> ‘nine hundred’</td>
</tr>
<tr>
<td>mille numeral</td>
<td><em>тысяча</em> ‘thousand’, <em>миллион</em> ‘million’, <em>триллион</em> ‘trillion’</td>
</tr>
<tr>
<td>lexical fractions</td>
<td><em>половина</em> ‘half’, <em>чётверть</em> ‘quarter’</td>
</tr>
<tr>
<td>approximate</td>
<td><em>столько</em> ‘so many’, <em>много</em> ‘many’, <em>немного</em> ‘some’, <em>мало</em> ‘few’</td>
</tr>
<tr>
<td>collective</td>
<td><em>девять</em> ‘twosome’, <em>пятеро</em> ‘fivesome’</td>
</tr>
</tbody>
</table>

---

[62] Этим четырём буквам придано глубочайшее символическое значение. To these four letters is attached the greatest symbolic meaning.

[63] На этих шести станках работало всего шестеро. On these six machines used to work only six people.

[64] Она шила ему специальный пояс, широкий, с восьмью карманами. She sewed him a special, wide belt with eight pockets.

When the quantifier argument is nominative or accusative, numerals appear in the nominative or accusative. The quantified noun and any modifiers are genitive plural:

[65] Так вот, есть просьба выделить двадцать хороших ребят. So, there is a request to select twenty good fellows.

[66] Здесь на помощь финалисткам пришли десять галантных кавалеров. Here there came to the rescue of the finalists ten gallant cavaliers.

Some modifiers occur before the quantifier and modify the whole quantifier phrase. One type of such phrasal modifiers appear in the direct (NOM=ACC) case. Such are: demonstratives (*эти пять рублей* ‘these five rubles’), possessive pronouns (*мои пять рублей* ‘my five rubles’), quantifying adjectives (*все ~ последние* пять рублей ‘{all ~ the last} five rubles’). Certain modifiers evaluate the quantity, and these appear before the noun usually in the genitive
plural: \{добрых \sim целых \sim жалких \sim каких-нибудь\} пятнадцать лет ‘\{a goodly \sim a whole \sim measly \sim some or another\} fifteen years’, only rarely in the nom=acc form: целые пятнадцать лет (on the web, only 177 хx целых пятнадцать vs. 11,600 хx целых пятнадцать <15.IX.02>).

General numerals are insensitive to animacy. When the noun is animate and the phrase is accusative, a general numeral is expressed in the nom=acc form, not the genitive ([67–68]). An external modifier does express animacy (but дру now occurs in the informal register):

[67] Зал Дома кино встречал этих \textless \textasciicircum{ACC=GEN} двадцать \textless \textasciicircum{ACC=GEN} \textsuperscript{*} двадцати \textless \textasciicircum{ACC=GEN}\> ребят аплодисментами.
The House of Film greeted those twenty lads with applause.

[68] Владимир окрестил всех \textless \textasciicircum{ACC=GEN} двенадцать \textless \textasciicircum{ACC=GEN} \textsuperscript{*} двенадцати \textless \textasciicircum{ACC=GEN}\> сыновей своих.
Vladimir baptized all twelve of his sons.

4.3.3 Paucal numerals
The paucal numerals – msc=nt гәдә \sim fem гәдә ‘two’ (with an unusual distinction of gender), трê ‘three’, четвёре ‘four’, and msc=nt оба \sim fem обе ‘both’ – behave like general numerals in oblique cases: the noun, modifiers, and the numeral are in the oblique case (instrumental in [69], dative in [70]); the quantified noun and any modifiers are plural.

[69] Андрей познакомил меня с тещи \textless \textasciicircum{INS PL} двумя \textless \textasciicircum{INS} молодыми \textless \textasciicircum{INS PL}\> людьми \textless \textasciicircum{INS PL}\>, с которыми сидел на одной скамье.
Andrei introduced me to those two young people with whom he shared a bench.

[70] Успешное развитие ребенка по этим \textless \textasciicircum{DAT PL} трём \textless \textasciicircum{DAT} генеральным \textless \textasciicircum{DAT PL} линиям \textless \textasciicircum{DAT PL}\> обеспечивает способность личности к разным видам деятельности.
Successful development of the child along these three general lines ensures the ability of an individual to engage in various forms of activity.

In direct cases, the quantified noun is genitive singular, not plural. Internal adjectives modifying the noun are plural, but the case depends on the gender of the noun. With masculine and neuter nouns, an adjective is always in the genitive.

[71] Забрали два других \textless \textasciicircum{GEN PL} охотничьих \textless \textasciicircum{GEN PL} ружья \textless \textasciicircum{NT GEN SG}\>.
They confiscated two other hunting rifles.

[72] Лишь полупустют три \textless \textasciicircum{ACC=GEN} первых \textless \textasciicircum{GEN PL} рядд \textless \textasciicircum{MSC GEN SG}\>, отгороженных \textless \textasciicircum{GEN PL} для почетных гостей.
Half-empty are only the first three rows, roped off for important guests.

With feminine nouns, nom=acc case rather than genitive is usual:
Grandmother drew two identical posters.

Under one administration were united two Moscow shoe factories.

In the hospital there were working two [female] orderlies, sent from the city.

The genitive, used rarely, focuses on the fact of existence or the quantity (76-77).22

A column of water rose up, a thud resounded. We threw ourselves into the water. We had caught . . . all of three deafened ducks.

In the hospital there were altogether only two [female] orderlies, sent from the city.

Paucal numerals, unlike general numerals, usually express animacy24 When the quantifier argument is accusative and the quantified noun is animate, the paucal numeral is in the genitive; the quantified noun is then genitive plural, not singular (78 ученицы): Modifiers, including modifiers of feminine nouns, are genitive plural (78 молодых).

In his place he sent those four young [female] students.

The special paucal quantifier оба/обе, like гвáльгвé, distinguishes gender, even in oblique cases: с обеими, бутылками. Unlike гвáльгвé, оба/обе presupposes that the two referents are individuated and known, a fact that leads to certain differences. Оба/обе generally elicits plural agreement (девушики пришли ‘there arrived both girls’). Оба/обе can be used as an anaphor (оба пришли ‘both arrived’) or as a modifier of the anaphoric pronoun (оба они пришли ‘they both arrived’).

Constructions with numerals can be stated as a hierarchized list of branching decisions (79), which does not treat external modifiers or complex numerals):

23 [75], [77] from Mel’chuk 1985a:448-49, here with a different interpretation.
24 The thoroughly un-individuated [76] does not.
if the quantifier phrase is in an oblique case:
  - quantifier, modifiers, and noun are in the oblique case; modifiers and noun are plural;
if the quantifier phrase is nominative or accusative:
  - if the quantifier is paucal,
    - if the quantifier phrase is accusative, if the quantified noun is animate, then the quantifier is genitive, modifiers and the noun are genitive plural;
    - otherwise, the quantifier is nominative=accusative, the quantified noun genitive singular, internal modifiers plural,
      nominative=accusative if the noun is feminine and the context non-existential,
      otherwise genitive;
  - if the quantifier is a general (not a paucal) numeral,
    - the quantifier is nominative=accusative (regardless of animacy), modifiers and noun are genitive plural.

4.3.4 Mille numerals миллио́н, ми́лиард, три́лион, and ты́сяча
Миллио́н ‘million’, ми́лиард ‘billion’, and три́лион ‘trillion’ – quantifiers expressing large quantities, which can for short be termed MILLE numerals – behave more like nouns than quantifiers, though they quantify things and combine with ordinary numerals. They themselves can be quantified by other numerals or approximate quantifiers. With numerals that take the plural, they themselves form a plural (⋆шесть ~ несколько百万 ‘{six ~ several} million’); general numerals do not form plurals. Combined with a paucal numeral, a mille numeral goes into the genitive singular; the noun is genitive plural:

[80] На дорогах ежегодно гибнет два миллиона машин.
On the roads two million cars perish every year.

When a mille quantifier occurs in an oblique case, the quantified noun still appears in the genitive, not the oblique case (dative in [81], instrumental in [82]):

[81] Я спустился, дав тебе руку, по крайней мере по миллиону лестниц.
I have descended, with you on my arm, at least a million stairs.

[82] IBM проектирует компьютер с миллионом процессоров.
IBM envisions a computer with a million processors.

In these respects, mille numerals are more similar to nouns than to general numerals.
Тысяча acts sometimes like a general numeral, sometimes like other mille numerals. When singular тысяча is used in an oblique case, there are said to be two patterns. In one, the quantified noun is genitive plural: к тысяче рублей ‘to a thousand rubles’, с тысячей рублей ‘with a thousand rubles’. With this syntax, which is similar to that of the mille numerals, the instrumental form is said to be тысячей: с тысячей учеников ‘with a thousand pupils’. Alternatively, тысяча and the quantified noun can both appear in the oblique case: к тысячам рублей. This is the syntax of general numerals. With this syntax, the instrumental is said to be тысячью (or тысячей as a secondary option): с тысячью (тысячей) рублями.

These two possibilities for тысяча are presented in grammars as equal options. In fact, in recent Russian, the former pattern is rather more frequent. In a sample of the first 100 tokens that appeared in a search on the whole web for the form тысяча (a third dative, two-thirds locative), almost all – 97 – were used with the genitive plural of the quantified noun. The behavior of the two instrumental forms is complex. Both seem current in contemporary Russian; тысячью appeared in 67 percent of tokens on www.lib.ru (<20.XII.02>). Interestingly, тысячью – supposedly the numeral form, which should combine only with an instrumental – occurs frequently with the genitive of the quantified noun. In the first 100 distinct tokens of тысячью, only 15 were followed by the instrumental, including:

25 Zalizniak 1977[a]:68 gives only тысячей, SRIa 2.123 gives тысячей.
26 The first 100 examples produced by searching with Google (<03.XII.01>) for тысяче, excluding: forms (анкеты), poetry, songs, religious texts, distributive constructions, conjoined numerals, more than one hit from a single site. Many of these 100 tokens were clichés measuring distance.
27 Whole web <20.XII.02>.

Translations of Hamlet’s “<...> we end / The heartache and the thousand natural shocks” use the genitive, for example: <...> покончили / С сердечной мукою

Sound Forge 5.0 is a professional program for sound editing! There is the possibility of using more than a thousand effects!

Otherwise, the genitive was used, in idiomatic expressions (с тысячью окон, ‘with a thousand windows’, с тысячью рук и глаз ‘with a thousand arms and eyes’, жить тысячью жизней ‘to live a thousand lives’) and in new combinations ([84]):

[83] Sound Forge 5.0 --- это профессиональная программа для редактирования звука!
   Есть возможность пользоваться более чем тысячью эффектами!
   Sound Forge 5.0 is a professional program for sound editing! There is the possibility of using more than a thousand effects!

At this time the group has offices in twenty-two countries throughout the world, with more than a thousand co-workers.

Transliterations of Hamlet’s “<...> we end / The heartache and the thousand natural shocks” use the genitive, for example: <...> покончили / С сердечной мукою
и с тысячью терзаний. It is not clear whether there is a systematic semantic or stylistic difference. Compare связанны тысячью нитей<sub>GEN</sub> ‘bound by a thousand ties’, but связанны тысячи видимыми и невидимыми нитями<sub>INS</sub> ‘bound by a thousand visible and invisible ties’, or Человек с тысячью лиц<sub>GEN</sub> – the name for the movie starring Lon Cheney and the novel by Alfred van Vogt – but Joseph Campbell’s book Герой с тысячью лицами<sub>INS</sub>.

The oblique plural forms of тысячи in earlier Russian combined with oblique nouns, as in Derzhavin’s Чтобы тысячам девочкам / На моих сиёть ветвях ‘In order that thousands of girls / On my branches might rest’, but now the genitive plural is used: на пятнадцати тысячах<sub>LOC</sub> квадратных километров<sub>GEN</sub> ‘on fifteen thousand square kilometers’. Overall, тысячи is coming to behave more like mille numerals than general numerals.

Mille numerals do not express animacy themselves or in demonstratives ([85]):

[85] Специальное заседание Политбюро ЦК решило эту проблему иначе: пустить корабль с замками на дно. Не отпускать эти<sub>NOM</sub> две<sub>NOM</sub> тысячи<sub>NOM</sub> каторжан в Соединенные Штаты!
In a special meeting, the Politburo resolved the problem in another way: to sink the ship to the bottom with the prisoners. Never to allow these two thousand prisoners into the USA!

4.3.5 Preposed quantified noun
While quantifiers ordinarily precede the nouns that are quantified, there is an alternative construction in which the noun comes before the numeral and, if there is one, a preposition; the construction indicates that the quantity is not precise:

[86] Часа через три-четыре мы увидели город.
   After three to four hours or so, we saw the city.
[87] Приехали неделя на шесть.
   They’ve come for six weeks or so.

The noun retains the same morphological properties it would have in the position after the quantifier – for example, the genitive singular with a paucal in [86] (and numerative stress часа). The numeral and the preposed noun take the case governed by the preposition: верстах<sub>LOC</sub> в двух<sub>LOC</sub> от села ‘at a place two versts or so from the village’, часов<sub>GEN</sub> go четырех<sub>LOC</sub> ‘up until about four’.

4.3.6 Complex numerals
In complex numerals – combinations of numerals – there is a significant difference between the most careful written register and less formal registers.
In the formal register, if the quantifier phrase is oblique, all components of the complex numeral are in the oblique case, and the noun and modifiers are plural.

\[88\]

The number of victims in ten tribunals in that year amounts to one thousand four hundred twenty (-four) people burned alive.

In a direct case, all components of the complex numeral are in the direct case. The last component determines the case and number of nouns and modifiers. They are genitive plural when the last component is not a paucal \([89]\):

\[89\]

Four hundred ten tribunals took place in this year.

If the last component is a paucal, the noun is genitive singular, as is usual with a paucal numeral; adjectives are plural, genitive with masculine or neuter nouns \([90]\), nominative or accusative with feminine nouns \([91]\).

\[90\]

I counted twenty-two young Nazis.

\[91\]

The commission hired one thousand two hundred fifty-three experienced teachers.

However, as in \([90–91]\), paucals in complex numerals do not express animacy. The \(\text{ACC} = \text{GEN}\) is said to be outmoded, but still occurs, even on recent websites.\(^{28}\) If the paucal does express animacy, the noun and any modifiers become genitive plural.

\[92\]

Camp Patriot has accepted for recreation (and training) fifty-four troubled adolescents.

In a complex numeral that ends in \(\text{огун} \ 'one'\), the noun is singular, and \(\text{огун}\) agrees with the noun.

\(^{28}\) The use of the \(\text{ACC} = \text{GEN}\) has attracted the attention of grammarians for popular audiences: D. È. Rozental’ (http://www.spelling.spb.ru/roenthal/alpha/r151.htm), V. I. Novikova (http://www.gramota.ru/monitor.html?mid=13). An example (because it is an internal quotation?), in reference to the three loves of Maiakovsky: Я думаю, Маяковский любил всех трех — и еще тридцать трех в придачу ‘I think Maiakovsky loved all three – and another thirty-three to boot’.
Arguments

I took part in twenty-two ballets and twenty-one operas.

If the numeral is subject, the predicate agrees with the singular number of огίн ([94]):

Тремя вологодскими депутатами в бюджет 2002 года внесена <FEM NOM SG> сто пятьдесят одна <FEM NOM SG> поправка <FEM NOM SG>.
By three delegates from Vologda were introduced into the 2002 budget one hundred fifty-one changes.

Пусть платит сто тридцать одну <FEM ACC SG> золотую лиру <FEM ACC SG>.
Let her pay one hundred thirty-one golden liras.

Николай Первый отправил в ссылку сто двадцать одного <MSC ACC=GEN SG> человека <MSC ACC=GEN SG>.
Nikolai I sent into exile one hundred twenty-one persons.

Сестры родили — ни много ни мало — двадцать одного <MSC ACC=GEN SG> ребенка <MSC ACC=GEN SG>.
The sisters gave birth to no more, no less than twenty-one babies.

Animacy is expressed by огίн when the noun is masculine and animate ([96–97]).

In the informal register, when a complex numeral should be in an oblique case, there is a tendency to avoid declining all components and to use the direct case form of numerals instead. How far this breakdown in the expression of case has progressed is difficult to determine. Nevertheless some general principles can be sketched. At the left margin, numerals of the mille group maintain declension when other numerals in the phrase may not be declined.

Фонд оказал квалифицированную юридическую помощь более чем трем тысячам <DAT> двести <NOM=ACC> двадцати <GEN> семьи погибших военнослужащих.
The fund has rendered qualified legal aid to more than three thousand two hundred twenty families of deceased servicemen.

On the right margin of a complex numeral, the last numeral, especially if it is a paucal, tends to decline, but the preceding decades and especially hundreds often do not:

Александр Алехин мог давать сеансы одновременной игры по шахматам вслепую на тридцать двух досках одновременно.
Alexander Alekhin used to give demonstrations of simultaneous chess games played blindfolded on thirty-two boards simultaneously.
The speedometer hovered between one hundred five and one hundred ten kilometers per hour.

Olia is a tall girl of twenty-five years.

Thus the informal register is developing a template, according to which numerals on margins are likely to be declined and numerals internal to the phrase need not be.

4.3.7 Fractions

Половина ‘half’, четверть ‘quarter’, треть ‘third’ are lexical fractions which, like paucal numerals, take the genitive singular of the noun: половина комнаты ‘a half of the room’, две трети муки ‘two thirds of the flour’. Fractions now condition feminine agreement: осталась грамма ‘there remained a good quarter of an hour until the train’s departure’.29

Other fractions are formed using a nominalized ordinal for the denominator and the (feminine) cardinal in the numerator. When the numerator is ‘one’, the expression is feminine singular, in memory of the noun часть ‘part’: одна восьмая ‘1/8’. With other numerators, the denominator is plural and genitive in direct cases in formal Russian. The noun remains in the genitive singular: две десятых ‘two-tenths’ (informally, две десятые or мст две десятые), (оставалось) три восьмых грамма ‘(there remained) three-eighths of a gram’, три тридцать восьмых ‘three thirty-eighths’, шесть десятых сорок седьмых комнаты ‘6/247’. When the quantifier phrase is oblique, the oblique case is imposed on the cardinal in the numerator and the ordinal of the denominator (on the last, adjectival part); the noun is genitive singular: с тремя восьмым метра ‘with three-eighths of a meter’, к шести вести сорок седьмым комнаты ‘to six two hundred forty-sevenths of the room’.

Mixed numbers are formed as follows. The integer, expressed by a cardinal numeral and optionally the nominalized adjective целая ‘a whole’, has the same case as the fraction. The fractional portion is conjoined with the integer. (The lexical fractions are combined through the comitative preposition с.) The noun remains in the genitive singular, in honor of the most immediate constituent, the fraction: (оставалось) шесть целых и три восьмых грамма ‘(there remained) six (wholes) and three-eighths grams’; с тремя целыми и тремя восьмым метра ‘with three (wholes) and three-eighths meters’.

29 Though Vinogradov 1947:294 had neuter singular.
Arguments

(целым) и шести двести сорок семь комната<sub>sg</sub>ы ‘to three (wholes) and six two hundred forty-sevenths of the room’; <sub>sg</sub>есть с половиной комнаты ‘six and a half rooms’; <sub>sg</sub>три с четвертью метра ‘three and a quarter meters’.

A distinct style is used for reading decimals. The lowest exponent can be explicitly read, for example, ‘3.18 grams’: (оставалось) три (целых) и восемьнадцать сотых грамма, but in scientific style it would be more common to read the numeral without ordinals, as (оставалось) три (целых) и восемьнадцать грамма. An initial zero before the decimal point is ноль, which declines; zeroes to the right of the decimal point are read as invariant ноль: от нуля ноль ноль шестнадцать грамма ‘from 0.006 gram’; с тремя (целыми) и ноль восемьнадцать килограмма ‘with 3.08 kilograms’.

Some unusual numerals contain an etymological prefix пол- ‘half’. ‘One and a half’, etymologically ‘half of the second’, behaves like a paucal. The direct cases distinguish gender and take the genitive singular of the noun: мес полторы стола ‘one and a half tables’, нт полторы окна ‘one and a half windows’, еим полторы стороны ‘one and a half sides’. Полтора, with initial stress, is used with pluralia tantum: полторы суток ‘a day and a half’. There is a single form for all oblique cases in all genders; nouns are genitive plural: из полторы бутылок ‘out of one and a half bottles’. ‘One hundred and a half’, etymologically ‘half of the second hundred’, distinguishes two forms: direct (ном=асс) полторацета, implying genitive plural of the noun ([102]), and oblique полтораста, implying oblique case by agreement ([103]):

[102] Мне двадцать пять лет: лицо мое и фигуру многие хвалят. Недурно ежу верхом и стреляю, попаду с полторы шагов в стакан или яблоко. I’m twenty-five: people admire my looks and my figure. I’m not too shoddy at riding and shooting: I can hit a glass or an apple from a hundred and fifty paces.

[103] Помогать на кухне — это мыть посуду за всеми полторыста постоянцами. Helping in the kitchen means washing dishes for all hundred and fifty lodgers.

4.3.8 Collectives

Russian has a distinct class of collective numerals, used for groups of individuals: гвое ‘pair, twosome’, пятьро ‘quintet, fivesome’, extending up to десятьро ‘tensome’. They are more frequent for small than for large groups – гвое is over ten times more frequent than семеро ‘sevensome’, which in turn is ten times more frequent than восьмеро. Whether collectives are used rather than ordinary numerals depends primarily on the noun that is quantified and secondarily on

the context. Collectives are used regularly with: adjectival substantives (двое часовых ‘two sentries’); masculine animate nouns belonging to Declension II (двое мужчин ‘two men’); nouns describing membership in groups defined by national identity or social role (трио словаков ‘three Slovaks’, двое студентов ‘two students’); children, when counted in relation to the parents (он женат и имеет четырех несовершеннолетних детей ‘he is married with four minor children’). Collectives are used with inanimate pluralia tantum, at least for low numbers in the direct cases: only {двое ~ четверо} суток ‘{two ~ four} days’.

Higher than paucals, regular numbers are used: occasionally пятеро суток ‘five days’ but much more frequently, пять суток (93% on the web <31.X.02>). Regular numbers are used in oblique cases: при помощи двух (*двух) щипцов ‘using two pairs of pliers’, с тремя ножницами ‘with three pairs of scissors’. Paired items, for some speakers, can be expressed by collectives, but others prefer to use пара: двое сапог ‘two pairs of boots’ or сапог пара {сапог ~ брюк ~ перчаток} ‘two pairs of {boots ~ trousers ~ gloves}’.

Aside from the lexical groups just mentioned, collectives are generally used only for groups including men. Collectives are avoided if the group is composed exclusively of women: две женщины ‘two women’, not *двое женщин, except in newer, colloquial language (относительно всех пятерых девиц ‘with respect to the whole fivesome of girls’). With nouns that can use either collectives or ordinary numerals, the collective focuses on the fact that the group exists (a fact which, in [104], explains how the uncle behaved):

[104] Теперь у него было пятеро детей, и эта должность его никак не устраивала.
   By now he had five children, and so that occupation was no longer adequate.

The regular numeral suggests that the entities are individuals ([105]):

[105] Выдали пять карточек — на моих младших сестер Машу и Катю и на трех дете брата Владимира.
   Five cards were issued — for my younger sisters Masha and Katia and for my brother Vladimir’s three children.

In the accusative, collectives express animacy ([106]), and not only for small quantities:

[106] Он работал не за двоих, а за десятерых.
   He did the work not just of two, but of ten people.

4.3.9 Approximates

Quantifiers such as столько ‘so much’, много ‘much’, немного ‘a little’, мало ‘little’ assert the existence of some quantity that is evaluated against an implicit standard: as greater (много) or less (мало) or the same (столько и сколько – the
question form that asks what the quantity is equal to). These quantifiers can also function as adverbs, when they do not govern a noun and modify a verb: много молилась ‘she prayed a lot’.

In oblique cases, the quantifier and the noun and any modifiers go into the oblique case. A count noun is plural: многими силами ‘with many forces’, сколькоими деньгами ‘with how much money’. If the noun is a mass noun, it is singular and the quantifier has a singular declension: без многой сили ‘without much force’, сколькоой валютой ‘with how much money’. Мало ‘little’, немало ‘not a little’ and the comparatives меньше ‘less’, больше ‘more’ do not decline and are not used where an oblique case would be called for, except in the idioms: без малого ‘only a little less than’, (начинаться) с малого ‘(to begin) with a little’. The adjective малый ‘small, slight’ does occur in oblique cases: не рождала и малою звук ‘[the machine] did not produce even the slightest sound’, с малым содержанием урана ‘with trace amounts of uranium’.

Alongside of the pure quantifier много there is a parallel plural adjective множество in the direct cases. Много points to the existence of a quantity of undifferentiated entities, as opposed to the possibility that no entities were involved. Многие individuates, inviting a contrast among individuals – many did, others did not ([107]):

[107] В Москву понаехала много китайцев. Среди них были Ху Ши Мин, Чан Кайши и многие соратники Мая Дэдуна.

Many Chinese arrived in Moscow. Among them were Ho Chi Minh, Chiang Kai-shek, and many comrades of Mao Zedong.

Много expresses animacy obligatorily, незколько ‘some’ does so three-quarters of the time. The nom=acc несколько establishes existence (in [108], there will now be expertise); the acc=gen несколько focuses on the effect on individuals, such as the violence in [109]:

[108] Привлекли несколько, nom=acc опытных специалистов. [They] have brought in some experienced specialists.


4.3.10 Numerative (counting) forms of selected nouns
Some nouns have distinct, archaic, forms when they are used with quantifiers.32

Certain nouns belonging to Declension<IA> use the null form of the genitive plural in combination with quantifiers, but the explicit ending {ov} for other genitives: шестнадцать килограмм ‘sixteen kilograms’, до двухсот килограмм ‘up to two hundred kilograms’ but среди этих килограммов ‘among those

32 Worth 1959:fn. 9, Mel’chuk 1985[a]:430–37.

Two high-frequency nouns use two different stems in the plural. While the general plural of человек is люди, plural forms of человек are used in quantifying contexts. As a genitive plural with the ending {-ов}, человек is used with true numerals: шестьсот двадцать пять человек были подвергнуто испытаниям ‘six hundred twenty-five people were subjected to performing penances’. Both человек and людьи are used with the approximate quantifiers столько, несколько, столько. In несколько человек потонуло ‘some people drowned’, человек establishes the existence of an event of drowning. Людьи indicates that the people are individuals, each with a separate history: сколько людей остались бы живы ‘how many people might have remained alive’. With много ‘many’, мало ‘few’, немало ‘not a few’, людьи is used by a wide margin (on the web, 97% людьи <31.X.02>), as in [110]:

[110] Но есть немало людей, которые считают по-другому.

But there are a fair number of people who think otherwise. Людьи tends to be used with mille quantifiers more than человек. The nominative-accusative миллионы overwhelmingly uses людьи (97% людьи on the web <31.X.02>). The genitive миллийонов, however, prefers человек (only 30% людьи on the web <31.X.02>). Людьи is also used with groupings of people, десятки талантливых людей ‘dozens of talented people’. Genitives that are not quantifying have only людьи: проблемы жизни людей ‘problems of people’s life’, толпа людей ‘crowd of people’.

With general numerals in oblique cases other than the genitive, either noun can be used with numerals, to judge a search of dative forms reported in Table 4.7 (web, <31.X.02>). Table 4.7 reminds us that человек is close to universal with

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Table 4.7 Alternative plurals (selected numerals, genitive and dative cases)

<table>
<thead>
<tr>
<th></th>
<th>человек</th>
<th>людей</th>
<th>percentage</th>
<th>человек</th>
<th>людям</th>
<th>percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>четыре ~ четырёх</td>
<td>18,800</td>
<td>476</td>
<td>98%</td>
<td>67</td>
<td>116</td>
<td>37%</td>
</tr>
<tr>
<td>пяти</td>
<td>14,100</td>
<td>143</td>
<td>99%</td>
<td>81</td>
<td>119</td>
<td>41%</td>
</tr>
<tr>
<td>десяти</td>
<td>9,380</td>
<td>389</td>
<td>96%</td>
<td>83</td>
<td>17</td>
<td>83%</td>
</tr>
<tr>
<td>пятидесяти</td>
<td>4,140</td>
<td>75</td>
<td>98%</td>
<td>6</td>
<td>9</td>
<td>40%</td>
</tr>
<tr>
<td>ста</td>
<td>12,400</td>
<td>160</td>
<td>99%</td>
<td>110</td>
<td>3</td>
<td>97%</td>
</tr>
</tbody>
</table>

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Table 4.8 Numerative plurals: лет, человек

<table>
<thead>
<tr>
<th>context</th>
<th>годы/лета</th>
<th>люди/человек</th>
</tr>
</thead>
<tbody>
<tr>
<td>plural oblique, non-genitive</td>
<td>к двадцати годам; отдаленные десятью годами</td>
<td>поможет даже десяти людям</td>
</tr>
<tr>
<td></td>
<td>[individuated] / понравится пяти человекам [existential]</td>
<td></td>
</tr>
<tr>
<td>adnominal to lexical noun</td>
<td>годы шестидесятых годов</td>
<td>проблемы жизни людей; толпа людей</td>
</tr>
<tr>
<td></td>
<td>[individuated] / в учебниках тех лет; практика прошлых лет; количество лет</td>
<td></td>
</tr>
<tr>
<td></td>
<td>[existential]</td>
<td></td>
</tr>
<tr>
<td>quantifiers</td>
<td>много лет</td>
<td>много людей, немало людей</td>
</tr>
<tr>
<td>мало, немало, много, немного</td>
<td></td>
<td></td>
</tr>
<tr>
<td>mille numerals</td>
<td>миллионы лет назад</td>
<td>320 миллионов людей</td>
</tr>
<tr>
<td>групповые числа</td>
<td>сотни лет</td>
<td>десятки талантливых людей</td>
</tr>
<tr>
<td>сотня</td>
<td></td>
<td></td>
</tr>
<tr>
<td>approximate quantifiers</td>
<td>столько лет прошло</td>
<td>сколько людей остались бы живы</td>
</tr>
<tr>
<td>столько, несколько, сколько</td>
<td></td>
<td>[individuated] / несколько человек потонуло</td>
</tr>
<tr>
<td>general numerals</td>
<td>двадцать лет; более двух лет</td>
<td>двадцать человек</td>
</tr>
</tbody>
</table>

genitive forms of numerals. With oblique numerals, forms of люди allow the people to be viewed as separate individuals ([111]); forms of человек focus on the quantity as such ([112]):

[111] Если моя книга поможет даже десяти людям, я уже буду счастлив.
If my book should help just ten people, I will be happy.

[112] Наша музыка понравится пяти человекам из сотни.
Our music will please five people out of a hundred.

Года ‘years’ is used in many contexts, including in oblique cases with numerals, к двадцати годам ‘to twenty years’, отдаленные десятью годами ‘distanced by ten years’. Лет is used for almost any genitive plural: with quantifiers of all kinds, много лет ‘many years’, до двадцати лет ‘up to twenty years’, миллионы лет назад ‘millions of years ago’, столько лет прошло ‘so many years have passed’; with adnominal genitives that are not quantifying, в учебниках тех лет ‘in the textbooks of those years’, практика прошлых лет ‘the practice of recent years’; and in idioms with the preposition с defining the start of an interval: с {детских ~ юных ~ тех} лет ‘from {childhood ~ young ~ those} years’. Лет is used in discussions of age, which is often measured with numbers: выглядела старше своих лет ‘she looked older than her years’, лыжники средних лет ‘skiers of
middle age'. The plural го́ды can have the sense of a series of years, such as a decade: шести́десят́ые го́ды 'the sixties', в первые го́ды революции 'in the first years of the revolution', and in this sense it can appear in the genitive: лю́ди шести́десятых го́дов 'people of the sixties'. The genitive го́дов is also used if years are understood as individuated, траги́ческие собы́тія 1937--1938 го́дов 'the tragic events of the years of 1937--1938', or if the genitive is governed by a verb: новы́м процес́сом в лучши́х случа́ях потребу́ет ещé го́дов испытани́й 'the new process, even at best, will require still more years of testing'.

Челове́к and го́д are used with numerals that call for the singular form: двадцать оди́н челове́к 'twenty-one people', с двадца́тю оди́м челове́ком 'with twenty-one people', три челове́ка 'three people', че́тыре го́да 'four years', до двадцати оди́го го́да 'up to twenty-one years', but до возраста́ че́тырех лет 'up to the age of four years'.

The usage and examples discussed above are summarized in Table 4.8. Лёт is used broadly as a genitive plural, not only in quantifying contexts. Челове́к is used in quantifying contexts (though лю́дей is not excluded), and not only as a genitive.

A small number of nouns have two genitive singular forms that differ by stress. The regular genitive is used in most contexts. The нуме́раторные form with unusual stress is an archaisim used with paucal numerals or fractions: {двадцать два ~ три ~ че́тыре} {шага́ ~ часа́ ~ ряд (ря́да) ~ шаро́в ~ [архаичный] раза́} '{(twenty) two ~ three ~ four} {steps ~ hours ~ rows ~ balls ~ times}'; полови́на шага́ 'a half step'. The regular genitive singular is stressed on the stem: около часа́ 'around an hour'. Numerative stress yields to the regular stress when the combination is not idiomatic: два первых шага́ 'two first steps' два бесконечных часа́ 'two endless hours', два с половиной {часа́ (~ часа́) ~ шага́} 'two and a half {hours ~ steps}'.34 За обе щёки́ 'on both cheeks' (otherwise, gen sg щёк) and все че́тыре сто́роны (gen sg сторон) 'all four sides' are fixed idioms.35

4.3.11 Quantifiers and no
A construction beloved among grammarians is the use of quantifiers with the preposition no in its distributive sense: a certain quantity of things is assigned to each member of some set.36

34 The pattern is a vestige of the stress in the dual of nouns with originally mobile accentuation. In mobile nouns, the accent fell on the nom=acc dual ending of masc o-stem nouns, hence шаги́, and on the initial syllable of fem a-stem nouns, сто́роны > сто́роны (Stang 1957:76, 61).
Distributive phrases with *no* fit in a wide range of argument positions: in positions where one might expect an accusative object ([113]), an accusative expression of frequency ([114]), or the nominative subject of an intransitive verb with existential force ([115]):

[113] Декану каждого факультета разрешили взять с собой по два студентов.
The dean of every faculty was permitted to take two students each.

[114] Я начал мыть посуду в ресторане, по двенадцать часов в день и по шесть дней в неделю.
I took a job washing dishes in a restaurant, twelve hours per day and six days per week.

[115] На каждой скамье сидело по три студента.
At each bench there sat three students.

These are the same argument positions that allow the genitive of negation, presumably because *no*, like the genitive of negation, focuses on existence rather than individuation. For the same reason, presumably, *no* does not treat its accusative complement as animate with paucal numerals (*no два студента* in [113]). But *no* is not limited to contexts that allow the genitive of negation. *No* phrases can be inserted in apposition to an argument including arguments of predicates in which the genitive would be problematic ([116]) and, unusually, can even substitute for a transitive subject ([117–18]):

[116] Живут студенты на первом курсе двадцать человек в комнате.
Students in the first year live twenty people to a room.

[117] Каждого министра держали под руку два матроса.
Each minister was held by the arms by two sailors each.

[118] В 47 вузах эту стипендию получили по одному студенту, в 16 вузах — по два.
In 47 schools, one student each received this scholarship, and in 16 schools — two students each.

The case of the numeral used with *no* is a favorite puzzle of Russian grammar. In earlier times *no* took the dative in this distributive construction, just as *no* takes the dative in other senses of distribution over a set of entities (брюйти по улицам ‘to wander along the streets’). In this construction, however, there is a long-term shift away from the dative. The dative is still obligatory with single units: adjectival *один* ([119]), mille numerals ([120]), even bare singular nouns without a numeral ([121]):

---

In Moscow now there are nine thousand HIV-positive people – on average, one person per thousand of the population.

Nobel laureates will receive approximately one million dollars per person this year.

Kostia had a romance in every port.

Pluralia tantum use the dative: *набегом* ‘for a day at a time’, *в ножницам* ‘a pair of scissors each’. The dative is still an option with *несколько: сидело по одной, по две, а то и по несколько* *старух* ‘there sat one, or two, or several old women on each’.

Many numerals – integers (*пять*), teens (*тридцать*), and decades (*двадцать*, *пятьдесят*, *шестьдесят*) – take either of two forms. The older form is an oblique case form – *двадцать* in [122]. This form, let us assume, is genitive, since the quantified noun is genitive and some forms (*пятьсот* ‘five hundred per’) look like genitives.39

Sofia demanded that the streltsy should send twenty of their best people from each regiment.

The other option is the direct (*ном=акс*) case form (*по двадцать* *человек*, in [116]), now much more frequent. In a sampling of websites, the older oblique form was used at most in a quarter of the tokens (with *пять* and *шесть*), to as little as a tenth (*двадцать*).

Other numerals now use the direct case almost exclusively. Included here are compound hundreds ([123]), round numerals (*сто* ‘hundred’, *сорок* ‘forty’), and paucals ([124]):

The initiate was supposed to bring into the organization at the minimum three people, and accordingly, to receive from each three hundred dollars.

After three thousand received phone calls, the company closed the site and appears in another place. Three thousand calls per *три минуты* by *три доллара* an hour.

39 Comrie 1986[a]. Alternatively, the form might be a dative, residually governing the genitive of the quantified noun, parallel to *некоторые* *старух*; *пятьсот* would be an idiosyncratic, archaic dative preserved in this construction.
After three thousand hits the firm closes the site and appears in another place. Three thousand hits of three minutes each, three dollars per minute.

The old forms appear haphazardly: note по ста рублей с человека ‘a hundred rubles per person’, from a novel of 1925, or the unusual пятисот ([125]):

[125] В заключение была показана битва двух полков по пятисот пехотинцев, двадцать слонов и триста всадников с каждой стороны.

In conclusion there was noted a battle of two regiments consisting of five hundred foot soldiers, twenty elephants and three hundred cavalry from each side.

However one analyzes the oblique case used with no, it is clearly residual. The future for all numerals (except singleton units) is the direct (nom=acc) case form.

If a complex numeral ends in a singleton unit (‘one’, ‘thousand’), the unit itself is dative; the remainder of the compound can be either oblique (genitive?) or, in a more contemporary register, the direct case form:

[126] по двадцати одному рублю [standard]
по двадцать одному рублю [contemporary]
twenty-one rubles each

Other complex numerals now use the direct form (по двадцати рублей в день ‘twenty-five rubles per day’), only rarely the genitive (по двадцати рублей в день ‘twenty-five rubles per day’). Mixed forms also occur (по шестисот девяносто рублей в год ‘six hundred ninety-seven rubles and twenty kopecks per year’).

4.3.12 Quantifier (numeral) cline
The properties of numeral quantifiers can be summarized in a matrix (almost a cline) with numerals in columns, properties in rows.

Одна, an almost purely adjectival quantifier, is at one extreme. At the opposite extreme, the large (mille) units миллиард and миллион behave almost completely like nouns, тысяча a little less so. Between these extremes are true numerals. General numerals have generally similar properties that distinguish them from either adjectives or nouns; they could qualify as a distinct part of speech. If one invokes any sort of hierarchical constituent analysis that distinguishes between head and dependent, quantifiers in direct cases seem to be the head of a special type of argument phrase, and the quantified noun the dependent. But in oblique cases quantifiers act like modifiers of the nouns they quantify. It is a bit of an anomaly that the constituency of some phrase should depend on the case of the whole argument phrase.
Table 4.9 Numeral cline

<table>
<thead>
<tr>
<th></th>
<th>single</th>
<th>paucal</th>
<th>digit; teen</th>
<th>non-compound decade</th>
<th>round</th>
<th>compound hundred</th>
<th>thousand</th>
<th>million</th>
</tr>
</thead>
<tbody>
<tr>
<td>case/number (NN)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NOM=ACC (QU)</td>
<td>α case SG</td>
<td>GEN SG</td>
<td>GEN PL</td>
<td>GEN PL</td>
<td>GEN PL</td>
<td>GEN PL</td>
<td>GEN PL</td>
<td></td>
</tr>
<tr>
<td>internal adjective /NOM=ACC (QU)</td>
<td>α number-case-gender</td>
<td>NOM=ACC PL/GEN PL/MSC=NT</td>
<td>GEN PL</td>
<td>GEN PL</td>
<td>GEN PL</td>
<td>GEN PL</td>
<td>GEN PL</td>
<td>GEN PL</td>
</tr>
<tr>
<td>ACC=GEN (QU)/AN NN</td>
<td>yes/MSC; no/FEM</td>
<td>yes</td>
<td>no</td>
<td>no</td>
<td>no</td>
<td>no</td>
<td>no</td>
<td>no</td>
</tr>
<tr>
<td>case with no gender-number (QU)</td>
<td>α number-case-gender</td>
<td>null</td>
<td>null</td>
<td>null</td>
<td>null</td>
<td>null</td>
<td>null</td>
<td>null</td>
</tr>
<tr>
<td>ACC=GEN (external adj.)/AN NN</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
<td>no</td>
</tr>
<tr>
<td>QU countable?</td>
<td>no</td>
<td>no</td>
<td>no</td>
<td>no</td>
<td>no</td>
<td>no</td>
<td>yes</td>
<td>yes</td>
</tr>
<tr>
<td>case (NN) / DAT ~ LOC ~ INS (QU)</td>
<td>α case SG</td>
<td>α case PL</td>
<td>α case PL</td>
<td>α case PL</td>
<td>α case PL</td>
<td>α case PL</td>
<td>GEN PL</td>
<td>GEN PL</td>
</tr>
<tr>
<td>inversion possible</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
<td>unusual</td>
</tr>
<tr>
<td>number of case distinctions (QU)</td>
<td>3 / FEM SG</td>
<td>4</td>
<td>3</td>
<td>3</td>
<td>2</td>
<td>4</td>
<td>5</td>
<td>5</td>
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<td>compound morphology</td>
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<td>no</td>
<td>no</td>
<td>no</td>
<td>yes</td>
<td>no</td>
<td>no</td>
</tr>
</tbody>
</table>
4.4 Internal arguments and modifiers

4.4.1 General
Nouns by themselves can function as arguments, but nouns can also form larger phrases by combining with dependent constituents, either arguments or modifiers (adjectives, participles, relative clauses).

4.4.2 Possessors
Most nouns can be possessed. Possessors that are nouns are expressed in the genitive, and are placed after the possessed noun (twice in [127]). Possessors that are first-person, second-person, or reflexive pronouns are expressed as possessive adjectives 

\begin{center}
мой \sim \text{паш}, твой \sim \text{ваш}, свой.
\end{center}

Possessive adjectives usually come before the possessed noun ([128]). As a stylistic variant, they can occur after the noun to remind the addressee of a known relationship of possession ([129]). The third-person forms \text{нш}, её, его are historically genitive-case forms. In synchronic terms, they are used in the same way as the possessive adjectives ([128--29]). Accordingly, it is reasonable to refer to them now as possessives, though they do not inflect like мой or твой.

\[\text{[127]} \text{На сайте расположены тексты песен разных исполнительней и групп.}\]

On the site are made available texts of songs of various performers and groups.

\[\text{[128]} \text{На сайте расположены тексты спектаклей и их актёров.}\]

On the site are made available texts of songs of various performers and groups.

\[\text{[129]} \text{На сайте расположены тексты спектаклей и их актёров.}\]

The texts of those songs of could easily count as poems.

First- and second-person possessive adjectives can be expanded with comitative phrases, and interpreted the same way as first- and second-person argument pronouns. Thus к нашему с Константином дуету 'to my and Constantine's duet' contains the possessive corresponding to ми с Константином, and both can be interpreted as a dual, the speaker and Constantine. (Such phrases can also be interpreted as plurals: внимание!!!! нашему с вами сайту срочно требуется веб-дизайнер 'attention!!!! your and our site urgently needs a web-designer'.) Genitive possessors can sometimes be conjoined with, or placed in apposition to, possessive adjectives ([130--31]), demonstrating that genitives of nouns and possessive forms of pronouns have analogous functions.

\[\text{[130]} \text{Он не занимался нашим (моим, брата, братца) воспитанием целенаправленно.}\]

He did not concern himself in a systematic fashion with our (mine and my brother's) upbringing.

\[\text{[130]} \text{Он не занимался нашим (моим, брата, братца) воспитании целенаправленно.}\]

\[\text{Note also: за нашим и дяди Сашиных виолончелей 'behind our and Uncle Sasha's wings', where the genitive дяди is associated with the base noun of the adjective Сашин.}\]
As has long been observed, possession should be understood very broadly, to mean not only the relationship of, for example, a person to a pencil, but all manner of relations of association between two entities, in which one entity – the possessed entity – is defined in terms of another – the possessor. Possession can mean ownership, relationship (of kinship), synecdoche, and so on. Many nouns – event nouns – are related to verbs and take arguments like verbs. One argument, which may correspond to the subject or to the object, is genitive or possessive, and so is a possessor in an extended sense of the term: приспособление организма ‘the adaptation of the organism’. Paradoxically, it is the possessed item that has the privilege of functioning as the argument phrase of the predicate, and the possessor is presented as ancillary.

4.4.3 Possessive adjectives of unique nouns
A very old option for expressing possession for nouns that specify unique people – first names or nouns identifying familial roles – is possessive adjectives formed by adding a suffix to the noun. These adjectives have a “mixed” declension (§3.5.3). Nouns that belong to Declension<IA> once could use the suffix {-ov}, such as отцов ‘father’s’, but this formation is little used in contemporary Russian; to express possession with such nouns, the genitive case is now used. Nouns belonging to Declension<II>, masculine as well as feminine, use the suffix {-in}. These possessive adjectives have a domestic, intimate ring to them, and are freely used in speech and in certain written genres, for example, memoirs: бабушкина<ПФ> сестра ‘grandma’s sister’, вцепилась в машину<ПФ> руку ‘she latched onto Masha’s hand’, Катя<ПФ> чемодан ‘Katia’s suitcase’. The difference between a genitive and a possessive adjective, then, is in part a stylistic difference of formal as opposed to domestic.

In addition, a possessive adjective presumes or imputes some connection between the possessor and thing possessed that is characteristic and previously known, as in бабушкина<ПФ> рыба ‘grandma’s fish [fish the way grandma prepared it]’. With event nominals, a possessive adjective suggests that the event is already known and viewed as characteristic of the possessor ([132–33]):

41 Comments in Corbett 1987, with extensive bibliography.
In contrast, the genitive, which is more formal, less intimate, defines the essence of something in relation to its possessor, such as the painting and its painter in [134] or an event and its agent in [135]; the addressee has no prior knowledge of the possessor and possessed item:

[134] Сохранялась акварель бабушки.<gen>.  
There is preserved [that which could be defined as] a watercolor painting of grandma’s.

[135] Ждали возвращения папы.<gen>.  
We were waiting for [the event that would amount to] the return of Papa.

4.4.4 Agreement of adjectives and participles

Modifiers – adjectives, participles, demonstratives, possessive adjectives – combine with nouns to form more complex argument phrases.42 Modifiers reflect the gender–number and case of the noun with which they combine: in во всей.<fem loc sg> этой.<fem loc sg> начинающейся.<fem loc sg> мировой.<fem loc sg> войне.<fem loc sg> ‘in all this beginning world war’, all four modifiers are locative feminine singular, in agreement with войне.

Agreement (or concord) within argument phrases is largely unproblematic in Russian. Complications arise only with conjoined nouns or multiple adjectives.

Multiple adjectives modifying a single plural noun will ordinarily be plural, unless there are distinct individuals or distinct types of individuals, each defined by a different adjective. In [136], both of the hands are ours (hence plural наша) but the two hands are distinct:

In a mirror our right and left hands change places.

Mass nouns avoid being used in the plural ([137–38]), even when there is plural agreement in adjectives or verbs applying to the distinct sorts ([138]):

[137] русская.<fem sg> красная.<fem sg> и черная.<fem sg> икра.<fem sg> сервисированная.<fem sg> со сметаной  
Russian red and black caviar, served with sour cream

[138] Предлагаются.<pl> высококачественные.<pl> красная.<fem sg> и черная.<fem sg> икра.<fem pl> с Дальнего Востока.  
There is offered high-quality red and black caviar from the Far East.

In argument phrases that include conjoined nouns, modifiers are plural if one of the nouns is plural. If the nouns are singular and a modifier is understood to modify only one of those nouns, the modifier is singular and expresses the

42 Crockett 1976, Corbett 1983[b].
gender of the noun it modifies: наша<sub>FEM</sub> страна<sub>FEM</sub> и остальной<sub>MSC</sub> мир<sub>MSC</sub> ‘our country and the remaining world’.

Complications arise with singular nouns modified by adjectives that are understood to apply to both nouns. In principle, the modifier can be either singular, reflecting the gender of the nearest noun, or plural: о {больном<sub>MSC SG LOC</sub> ~ больных<sub>PL LOC</sub>} сыне<sub>MSC SG LOC</sub> и дочери<sub>FEM SG LOC</sub> ‘about the ailing son and daughter’. In the colloquial register, plural agreement is not usual. In written Russian, either singular or plural occurs.

The overriding condition is the sense of the nouns in context. Plural means the entities are understood as independent and parallel individuals, each of which can be evaluated separately as having the property. In [139], the speaker does not resemble either of two individuals, her brother or, separately, her sister.

[139] Я не похожа на своих<sub>PL</sub> брата и сестру.
I am not similar to my brother and sister.

In [141], two distinct well-known individuals were present:

[140] Среди группы оказались наши<sub>PL</sub> Абдужапarov и Тетериук.
Among the group were our Abduzhaparov and Teteriuk.

Singular, in contrast, is appropriate if the entities to which the nouns refer are not conceptualized as distinct individuals, in any of a number of ways. The two nouns may be synonymous: особое<sub>NT SG</sub> значение<sub>NT SG</sub> и смысл<sub>MSC SG</sub> ‘special meaning and sense’. They may be specific instances of a higher-order category; for example, in структура советского<sub>MSC SG</sub> экспорта<sub>MSC SG</sub> и импорта<sub>MSC SG</sub> ‘the structure of Soviet export and import’, both entities are types of trade; and in (нашем) серебряную<sub>FEM SG</sub> ложку<sub>FEM SG</sub> и вилку<sub>FEM SG</sub> ‘(we found) a silver spoon and fork’, both entities are utensils. Or the two together form a unit. In [141], the addressee failed by not thinking about the family as a unit:

[141] Ты не подумал про своего<sub>SG</sub> брата и сестру, тем более про бабушку.
You didn’t think about your brother and sister, and worse, about your grandmother.

The connective и is likely to condition plural agreement. The folkloric connective ла is asymmetric, and the properties of the first element generally dominate. The disjunctive connective или generally takes singular agreement.

4.4.5 Relative clauses

Relative pronouns make it possible to present a predication as a modifier of a noun and still remain finite.\textsuperscript{43} The head of a relative clause – the noun or

\textsuperscript{43} Comrie 1986[c].
pronoun that is modified – is explicit in Russian; Russian does not have “headless relatives.” Most interrogative pronouns can function as relatives. By far the most widely used pronoun is кото́рый ‘which’, and it is used for persons as well as for inanimates.

As a relative, кото́рый has no trace of the restriction to a delimited set that is characteristic of its use as an interrogative. Russian does not distinguish between restrictive and non-restrictive relative clauses, whether by the choice of pronoun or intonation or punctuation.

Кто́ ‘who’ can be used as a relative under special conditions. Кто́ defines membership in a set of possible individuals. Кто́ fits when the head is the demonstrative тóт (or plural те) without a noun. The intended referents must be human and, as a rule, include males (exceptionally, [145]). Agreement with кто́ is masculine singular if the relative proposition is true of each individual separately ([143]), but plural is possible for group activities ([144]):

The construction тóт, кто́ . . . defines an implicit condition: if a person has such and such a property (the кто́ clause), then here is what can be said about such a person (the тóт clause). The condition then becomes a prescription for how to treat a person who acts in a certain way. And, in fact, the тóт, кто́ . . . construction was a formula in medieval legal language, when the defining property (кто́) was put at the front of the clause and separated from the consequence (тóт).

A memorable modern token is Lenin’s phrase: кто́ не с нами, тóт против нас ‘whosoever is not with us, that one is against us’.

The construction те́, кто́ contrasts with те́, кото́рые, which occurs as well. Те́, кто́ refers to possible individuals (in [146], any possible individual who might have knowledge of the affair), while те́, кото́рые refers to real individuals (in [146], the actual culprits):
He avoided meeting not only those who had taken part in the murder of Rasputin, but even those who might remind him of what had happened.

Thus using *któ* as a relative requires a concept of a set and a process of defining the membership in a set. The requisite set can be established by any quantifying adjective – ‘all’, ‘каждый’ ‘each’, ‘некоторые’ ‘several’, ‘никто’ ‘no one’:

I’ll describe some whom I remember.

I didn’t see anyone around to whom I could turn.

*Któ* can also be used with demonstratives and overt head nouns if the nouns have general reference ([149]). In the exceptional case, a simple noun without a demonstrative can be the head, if something evokes a set (in [150], в числе):

Hitler made an agreement with Stalin that all of the local residents who had any German blood could leave for Germany.

Among the guests who came to us regularly were the three Raevsky brothers.

Inanimate *чтó* ‘what’ can be used as a relative under certain conditions. It can be attached to the demonstrative *тó* or other pronouns such as *всё* and then used in any case.

Possibly what I’m just to tell about happened before my arrest.

Going on stage was the realization of everything that lay dormant in me.

In the colloquial register, *чтó* can be attached to a noun if it is used in the direct case form – nominative (animate or inanimate) or accusative (but then only inanimate). If it is the subject, the verb agrees with the gender-number features of the head (in [153], *káгта* ‘map’):

We studied a map of the region, which lay before us on the table.

Adverbial pronouns *егé* ‘where’, *кудá* ‘to what place’, *когдá* ‘when’, *как* ‘how’ can be used as relative pronouns when they are attached to appropriate sites – to demonstrative pronouns such as *тáм* ‘there’, *тудá* ‘to that place’, *тогдá* ‘then’, *тáк* ‘thus’ or simply to nouns with the meaning of location, time, or manner.
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There were four levels to which one could make application.

Какой, an adjective, can be used if the matrix context focuses on the properties of the entity, as do такой ‘that kind’ ([155]), the quantifier столько ‘to such an extent’ ([156]), or a superlative adjective ([157]):

[154] Было четыре инстанции, куда полагалось подавать заявления.
There were four levels to which one could make application.

As a relativizer, the possessive чей is bookish.

[158] Бавыкины дружили с семейством Томленовых, чей отец служил железнодорожником вместе с Михаилом Васильевичем.
The Bavykins were on friendly terms with the Tomlenov family, whose father worked on the railroad along with Mikhail Vasilevich.

Чей suggests an intrinsic connection between the possessor and its possessed object; for example, in [158], there is a presumption that each family unit would have its own head. Кой is archaic (в ресторан, хозяйкой коего являлась наша соседка ‘into a restaurant, the proprietor of which turned out to be our neighbor’).

A favorite concern of linguistic investigations of the past few decades has been to determine constraints on which arguments are accessible to relativization. Russian allows relativization of all argument positions within finite clauses – subjects, objects, possessors, adverbial arguments. It can relativize object arguments of non-finite verbs – of infinitives ([159]) or of adverbial participles ([160]).

[159] Здесь мы сталкиваемся с такими тонкостями, выявить и понять которые сумела лишь столь мощная отрасль современной науки, как квантовая теория.
Here we run up against subtleties, to make explicit and understand which only such a powerful branch of contemporary science as quantum theory has managed.

[160] <...> с широким лицом, встретив которое даже где-нибудь в Австралии или Новой Зеландии можно без опаски заговаривать по-русски.
<...> with a broad face, on meeting which even anywhere in Australia or New Zealand one can without hesitation address in Russian.
Relativizing to a site in a finite clause, marked “∅,” is possible (though not frequent) provided the intervening syntax is relatively transparent:44

[161] Князь по привычке говорил вещи, который он и не хотел, чтобы верили ∅.
The prince by habit said things that he did not even expect people to believe.

[162] У меня есть книга, которую я хочу, чтобы ты прочла ∅.
I have a book that I would like for you to read.

[163] Я у меня есть книга, которую я дерзаю надеяться, что ты прочтешь ∅.
I have a book that I dare to hope you might read.

Such sentences are rare in texts, Tolstoy’s [161] notwithstanding.

4.4.6 Participles

Active participles, unlike adjectives and passive participles, do not form short forms; they are rarely used with copular predicates (§5.2.1). Some active participles can be used as nouns, in reference to people ([164]) or events ([165]):

[164] Такую бумагу подписывал каждый поступающий на строительство.
Such a document was signed by every [person] beginning work at the construction site.

[165] В столице не знали о совершавшемся.
In the capital, they did not know about what had occurred.

Active participles are used freely as attributive modifiers. Used attributively, a participle agrees in gender–number and case with the noun it modifies, which is interpreted as the subject of the participle. Participles, like verbs, have arguments. Participles are in general a bookish construction. (On tense and aspect in participles, see §6.3.5.) Attributive participles can be preposed to the noun, and integrated prosodically with other modifiers, живущую там дочь 'his living-there daughter', or they can be postposed, separated in writing by a comma and in speech by an intonation break, отца, проходившего комиссию 'father, who was going through review boards'.

Participles, like relative clauses, convert what could be independent predications into attributes of nouns. Aside from the obvious fact that a participle can only be used if the head noun would be the subject of the participle, it is an elusive (and still not investigated) question when participles as opposed to relative clauses are used. A relative clause with который can be used either to define an individual in essential terms (in [166], ‘whatever family used to live there’) or to add new information about a known individual ([167]):

I asked her if she remembered that family which at one point had lived there for a period of three years. She shook her head no.

I cannot fail to remember with deep gratitude Anna Kaiser, who tried to help me in all possible ways.

Relative clauses, then, state what properties individuals have, but it is not an issue whether the individual is known or defined on the spot.

Participles, in contrast, focus on the way the entity is relevant; they present the individual in some capacity, qua a certain property. In [168], the participle not only defines individuals but it explains what makes the friendship possible; the subject knew them qua housemates.

In [169], the memory does not concern all properties of Sophia Loren, but concerns Sophia Loren specifically qua her descent down a staircase in Cannes.

A relative clause in [169] would not tie this descent to the act of memory.

Both participles and relative clauses are at home in written language. Spoken language rarely uses participles, sometimes uses relative clauses ([142]), but is most likely to string together clauses paratactically ([170]) when the written language would call for a relative clause or participle ([171]):

From Nikitskoe / we went to Yalta on the bus // Well and had breakfast there / and got on the Bakhchisarai bus // It goes to Bakhchisarai
4.4.7 Comparatives
Comparison of adjectives is expressed by synthetic comparatives (ярче ‘brighter’, доступнее ‘more accessible’) or analytic comparatives (более доступно ‘more accessible’). To a large extent the two forms of comparatives are used in complementary contexts.

Analytic comparatives occur if the adjective is attributive and describes a known individual ([172]). The analytic form is virtually required in oblique cases ([173]):

[172] Пронесся слух, что она учит их танцевать не только фокстрот, но еще более развратный чарльстон.
A rumor started that she was teaching them to dance not only the foxtrot, but the even more degenerate Charleston.

[173] Полтора года спустя я стоял в очереди еще более длинной.
A year and a half later I had occasion to stand in an even longer line.

The synthetic form can be a predicate ([174]) or a predicative adjective ([175–76]):

[174] Спокойнее было на берегу Черного моря.
It was more peaceful on the shore of the Black Sea.

[175] Всеволод {был ~ казался ~ оказался} умнее нас всех.
Vsevolod {was ~ seemed ~ turned out to be} smarter than us all.

[176] Его считали умнее нас всех.
[They] thought him smarter than us all.

Postposed, the synthetic form defines a type of individual (essential reference):

[177] Я попросил его принести мне другую — потолще, посерезнее и повинтереснее.
Then I asked him to bring me another one [book], [one that would fit the definition of being] thicker, more serious, and more interesting.

In the function of adverbs, the synthetic form is used for irregular comparatives:

[178] Мы начали бурить глубже, до ста метров.
We began to drill deeper, up to a hundred meters.

With other lexemes, both forms are possible:

[179] Постепенно мои родители начали все более благосклонно относиться к Клаудии.
Gradually my parents began to treat Claudia ever more graciously.

[180] Маша стала относиться к нему благосклоннее и во время очередной прогулки дала ему свое согласие.
Masha began to treat him more graciously and once on a walk she gave him her consent.
A comparative implies comparison to some other individual or situation — that is, to a standard. Often the standard is left implicit, to be understood from context. The standard can be expressed in the genitive: умнее его ‘smarter than him’ ([181]). Or the standard can be made explicit with a conjunction, neutral or old-fashioned нежели. The standard of comparison can be an individual ([181]) or a place ([182]) or an occasion ([183]):

[181] Костя был старше нас года на три и выглядел более солидно, нежели остальные.
Kostia was older than us by three years and looked more solid than the rest of us.

[182] У самого входа в банк жмется к стенке некто и на ломаном английском языке шепотом дает за валюту в пять раз дороже, чем в банке.
At the entrance someone clings to the wall and offers in whispered, broken English to exchange currency for a rate five times higher than in the bank.

[183] И всех тех богатств было тогда много больше, чем теперь.
And of those riches there were then many more than now.

The standard usually has the same role in the predicate as the entity that is compared, and hence has the same case as the compared entity: nominative ([184]), dative ([185]), possessive genitive ([186]), accusative ([187]):

[184] Я могу бегать быстрее, чем отец.
I can run faster than father.

[185] Специалистам мы платим меньше, чем громадной массе работников с более низкой квалификацией.
To specialists we pay less than to the great mass of workers with lower qualifications.

[186] Продуктивность Азовского моря в то время была в 1,5 раза больше, чем Северного.
The productivity of the Sea of Azov was at that time one and a half times greater than that of the North Sea.

That has already made radio astronomy more insightful than ordinary optical astronomy.

When the standard is the implicit subject of the comparison, the nominative is used. In [188], the father is an implicit subject by virtue of belonging to the class of energetic workers:

[188] Я не знал, да и теперь не знаю более деятельного и усердного работника, чем мой отец.
I did not know, and I still don’t know today any more effective and energetic worker than my father.
4.4.8 Event nouns: introduction

Many nouns have something of the flavor of predicates. As nouns, they refer or point to something, but what they refer to is an event or part of an event. Such event nouns often have arguments analogous to the arguments of verbs. The most transparent of these nouns are derived by suffixation of verbal roots; they are neuter nouns of Declension<1b> formed with an augment {ij-} added to what looks like the passive participle: существо (protivorejyj) 'existence (of contradictions)', состояние (bankovskogo sektora) 'condition (of banking)', совершенствование 'perfection', соревнование (operacionnych sistem) 'competition (of operating systems)', отрицание (nashego vybora) 'rejection (of our choice)', перевоспитание (licu, совершивших преступления) 're-education (of people who have committed crimes)', обладание (istinoy) 'possession (of truth)', требование (ku ochistke gazov) 'demand (for cleaning of gases)', (xh) opublikovanie 'their publication'. Abstract nouns related to adjectives, such as необходимость 'necessity', закономерности 'regularities', can also be considered event nouns referring to a static event.

Other nouns not formed with productive suffixes can also evoke events and have arguments: любовь к родине 'love for the fatherland', любля бабочек 'butterfly hunting', гибель царя 'the demise of the czar', разговоры взрослых между собой об играх в карты 'the conversations of grownups among themselves about card games'. The ability of nouns to evoke events is so pervasive that one can see an event lurking in дорога в Тулу снежными полями '[a journey on] the road to Tula through snow-covered fields'.

Event nouns, even the most event-like, stop short of being verbs. They do not distinguish verbal categories. The reflexive affix -ся cannot be used with nouns, even if the corresponding verb is necessarily reflexive: отчаяние 'despair', related to отчаяться 'despair'. Because nouns do not allow the reflexive affix, many event nouns are associated both with transitive verbs and with reflexive intransitive verbs: отдаление 'departure, removal', related to both transitive отдалить 'remove' and reflexive отдалиться 'remove oneself, depart'. Aspect is not distinguished. As a rule, only one nominal is formed, in some instances like the perfective (перевоспитание 're-education', наказание 'punishment'), in others like a secondary imperfective (выбрасывание 'tossing out', высказывание ‘utterance’, всасывание ‘sucking into’). Dual forms are rare: usual избрание 'election' (избирать<1f>), unusual избира́ние 'the process of selecting' (избирать<1f>).

Using event nouns and abstract nouns extensively is characteristic of scientific and publicistic style: необходи́мость боле́е дифферени́рованного подхода к назначению уголовного наказания 'the necessity of a more differentiated approach to the designation of criminal punishment'.
4.4.9 Semantics of event nouns

Event nouns have different senses in contexts, along two parameters.

One parameter is the reference of the event. An event noun often has essential reference – it establishes the fact of the existence of an event of a certain type ([189–90]) – but can also refer to a specific event ([191]):

[189] У них уже не хватало времени на чтение.
They already were short of time for [any activity that would qualify as] reading.

[190] Он примирился, он вообще не верил в свое освобождение.
He was resigned, he did not believe in [the possibility of] his being freed at all.

[191] Председатель закашлялся, не сразу смог продолжить чтение.
The chairman began to cough, and could not continue [the current act of] reading right away.

Also, an event noun can refer to the whole event (as above) or to some part or aspect of the event: the manner in which the event progresses ([192]) or the results of an event ([193]):

[192] Его новое существование с женой и детьми было настолько для него драгоценно, что призраки хотели не допускались суда.
His new existence with wife and children was so valuable to him that no phantoms from the past were permitted.

[193] От радости я забыл захватить свои приспособления для ловли бабочек.
I was so enthused I forgot to grab with me my instruments for butterfly hunting.

The result reading, especially, is frequent. A помещение is just as likely to be a location as an act of locating; приспособление in the sense of a result of devising – a device, as in [193] – is as common as the pure event sense of the process of adaptation ([194]):

[194] Установлены закономерности приспособления организма к условиям невесомости.
The regularities of the adaptation of the organism to the condition of weightlessness were determined.

4.4.10 Arguments of event nouns

Event nouns have arguments corresponding to predicate arguments.45 It is useful to distinguish the equivalent of intransitive verbs, which have one major argument, and the equivalent of transitive verbs, which may have two arguments.

45 On valence in event nouns, see: Veyrenc 1972, 1974, Revzin 1973[a], Comrie 1980[a], Rappaport 1992, Fowler 1998, and especially Paducheva 1984. To judge by the typological literature on event nouns, Russian is not unusual in its valence patterns or semantics or restrictions on verbal categories (Comrie 1976[a], Comrie and Thompson 1985, Koptjevskaja-Tamm 1993, with bibliography).
An argument analogous to the subject of an intransitive is expressed in the
genitive if it is a noun ([195]), as a possessive adjective if it is a pronoun ([196–97]):

[195] {приход войск<GEN> ~ пролетарское происхождение разбивателей<GEN> вагонов ~ поступление продуктов<GEN>}
{arrival of the troops ~ the proletarian origins of the destroyers of the wagons ~ the arrival of products}

[196] {*приход меня<GEN>} ~ {моий<PPSS> ~ свой<PPSS> ~ их<PPSS>} приход
{*arrival of me} ~ {my ~ one’s own ~ their} arrival

[197] {*отчаяние себя<GEN>} ~ {своё<PPSS> отчаяние}
{*despair of self} ~ {one’s own despair}

As above (§4.4.2), the third-person forms behave in a manner parallel to pos-
sessive adjectives, in that the unmarked position is before the event noun: его приход ‘his arrival’, parallel to мой приход, in contrast to приезд президента ‘the
arrival of the president’; similarly, твоя решительность ‘your decisiveness’, ее
решительность ‘her decisiveness’, but решительность государства ‘the decisiv-
eness of the government’.

If an event noun corresponds to a transitive predicate, there are three possibil-
ities for expressing both arguments: (a) the subject analog is instrumental, the
object analog is a possessive ([198]); (b) the subject analog is instrumental, the ob-
ject analog is genitive ([199–200]); (c) or the subject analog is possessive, the object
analog is genitive ([201–2]):

[198] Сталин все-таки умер естественной смертью (если не принимать во внимание необоснованную версию о его<PPSS> якобы убийстве Берии<INS>.)
Stalin, nevertheless, died a natural death (assuming one does not consider the
unsubstantiated version about his supposed murder by Beria).

[199] чтение Купера<GEN> учеником<INS>
the reading of Cooper by the pupil

[200] Он говорил о убийстве Сталиной<INS> его жены<GEN>.
He spoke about the murder by Stalin of his wife.

[201] {моё<PPSS> ~ его<PPSS>} чтение Купера<GEN>
{my ~ his} reading of Cooper

[202] Валя попросила записать на магнитофон её<PPSS> и моё<PPSS> чтение отдельных
фраз<GEN>.
Valia asked to have her and my reading of some individual phrases tape-recorded.

The possibilities for arguments in event nouns are schematized in Table 4.10.
As is evident from Table 4.10, instrumental case and genitive case are used
for complementary arguments. It is impossible to have two genitives, one the
analog of a transitive subject, the other the object analog, in a single nominal.
The versatile possessives fit in all three positions.
Table 4.10 Arguments in event nouns

<table>
<thead>
<tr>
<th>argument analog</th>
<th>instrumental</th>
<th>possessive pronoun</th>
<th>genitive</th>
</tr>
</thead>
<tbody>
<tr>
<td>TRANSITIVE SUBJECT</td>
<td>чтение Купера учащимися, 'reading of Cooper by the pupil'</td>
<td>{ее,ее&lt;sub&gt;PSS&lt;/sub&gt; ~ мое,мо&lt;sub&gt;PSS&lt;/sub&gt;} чтение отдельных фрагм</td>
<td></td>
</tr>
<tr>
<td>INTRANSITIVE SUBJECT</td>
<td>{твой,тв&lt;sub&gt;PSS&lt;/sub&gt; ~ ee,ее&lt;sub&gt;PSS&lt;/sub&gt;} приход</td>
<td>{your,его&lt;sub&gt;PSS&lt;/sub&gt; ~ её,ее&lt;sub&gt;PSS&lt;/sub&gt;} приход войск, 'arrival of troops'</td>
<td>[noun]</td>
</tr>
<tr>
<td>TRANSITIVE OBJECT</td>
<td>{его,ее&lt;sub&gt;PSS&lt;/sub&gt; ~ мое,мо&lt;sub&gt;PSS&lt;/sub&gt;} назначение</td>
<td>{его,ее&lt;sub&gt;PSS&lt;/sub&gt; ~ мое,мо&lt;sub&gt;PSS&lt;/sub&gt;} назначение, 'appointment of me'</td>
<td></td>
</tr>
</tbody>
</table>

Table 4.10 gives the maximal possibilities, when all arguments are expressed. In practice, arguments of event nouns, especially those corresponding to agents of transitives, are often left out, to be interpreted, depending on context, as referring to any person’s participation or to some specific individual’s participation:

[203] Эту гимнастку удалось скрыться, но ведутся его поиски.
That gymnasium student managed to slip away, but his search [the search for him] is underway.

[204] перевязка вены и ее удаление
binding of the vein and its removal

[205] М: У меня аппетит пробуждается после прихода на работу.
My appetite kicks in after arrival at work.

I: Ну, приходом на работу, да, у нас это ж процесс вот прийти на работу, вот часа полтора занимает.
Well with respect to arrival at work – that process of arriving at work, that takes an hour and a half.

As in Table 4.10, pronominal arguments corresponding to objects can be expressed in principle in two ways: as genitives or as possessives. Genitives – the more general option – focus on the fact that an event, viewed as a whole fact (essential reference), occurs at all, as is appropriate when the event is still virtual ([206–8]):

[206] Вопрос о назначении его<sub>GEN</sub> на ответственный пост вот-вот должен быть решиться.

46 Paducheva 1984.
The question of assigning him [= whether to assign him] to an important position was to be decided any day now.

[207] Он был против превращения меня, в переводчика.
He was opposed to [the possibility of] converting me into a translator.

[208] Она не подозревала о {*твоем преследовании ~ преследовании тебя}.
She had no suspicion of the persecution of you [= of the fact that persecution of you was occurring].

Using a possessive is appropriate if the event is actual and is characteristic of, or of interest to, that specific possessor ([209–11]):

[209] Не совсем понимаю причину моего назначения.
I don't entirely understand the reason for my appointment.

[210] Он не счел нужным моему превращению в переводчика.
He was not sympathetic to my conversion to a translator.

[211] Я буду просить, чтобы суд потребовал от русских властей прекратить мое преследование.
I will ask that the court demand of the Russian authorities that they cease my persecution.

Arguments of event nouns corresponding to arguments other than subject or object usually have the same cases as they would with the corresponding verb. For example, возвращение ‘return’, related to возвратить/возвращать ‘return’, allows sources (после возвращения из Китая ‘after the return from China’) or goals (возвращение их на корабль ‘returning them to the ship’); the verb (увлечься/увлекаться компьютерами ‘be fascinated with computers’) and the event noun (увление компьютерами ‘fascination with computers’) govern the instrumental.

An exception to this rule is the set of nouns that refer to static attitudes. The goal of the attitude is expressed by the preposition к with the dative even when the corresponding verb does not use this preposition: уважение к собеседнику ‘respect for one’s interlocutor’, презрение к таким людям ‘scorn for such people’ (уважать ‘respect’, презирать ‘scorn’ take the accusative); пренебрежение к ценностям ‘inattention to valuables’ (пренебречь ценностями, ‘treat valuables inattentively’); отвращение к школе ‘disgust for school’ (compare отвратиться/отвращаться от школы ‘feel repulsed from school’).

4.5 Reference in text: nouns, pronouns, and ellipsis

4.5.1 Basics
As speakers talk about the entities in the world, they use one or another referential exponent to name or refer to the entities. Referential
Arguments

exponents are the following: bare nouns; nouns with adjectives; nouns with demonstrative pronouns; demonstrative pronouns used as nouns (without nouns); pronouns; ellipsis, or “zero pronouns” (absence of any overt argument where one might be expected); and reflexive pronouns. Many referential exponents have a similar function. Pronouns, reflexive pronouns (§4.7), zero pronouns, and sometimes bare nouns can all point to known individuals whose existence and relevance have been established. The various exponents differ in how they instruct the addresser to look for information about the individual. Exponents can be more or less local. Third-person (non-reflexive) pronouns instruct the addresser to look for a source of information about the individual currently under discussion somewhere else, over a boundary, over a barrier, and integrate the current information with the inherited understanding of the individual.  

4.5.2 Common nouns in text

Nouns establish the existence of some entity and categorize it: they state what category (type, class, essence) the entity belongs to, and thereby indicate what some of its properties are.

Russian is famous for the fact that it does not have articles. (And, unlike Czech, it does not use demonstratives with any special frequency.) As a consequence, a bare noun or a noun with an adjective does not by itself indicate whether the entity is a specific individual known to the addresser or not. On first mention, a noun establishes that there is an entity that belongs to a certain class. What the noun refers to may or may not have any particular significance as an individual. In [212], for example, all that is known about the entities being carried is that they have the essence of backpacks (рюкзаки), and they will not be relevant further. In contrast, the legendary helmet girl reappears.

[212] А мы оставили рюкзаки на полпути // Нас встретила девица в шлеме // вот эта девица в шлеме нас преследовала // Такая легендарная // У нее был какой-то невероятный компас

So we left our backpacks along the way // We were met by a girl in a helmet // well that helmet girl persecuted us // positively legendary // she had some amazing compass

Bare nouns can be used not only to establish new entities. They can also refer to entities that have already been established as individuals. For example, in the abridged text in [213], the memoirist first mentions a unique lake (озеро Светлойар) where he once went with a friend to observe the festival of the Holy Mother of Vladimir before such rituals were suppressed.

47 That is, identity need not remain constant across times and worlds, pace Fauconnier 1985.
Not far from there was located Lake Svetloiar – my longstanding dream. We arrived on the evening of the holiday of the Mother of God of Vladimir, when the devout are vouchsafed a vision of the sacred city of Kitezh on the bottom of the lake . . .

People were standing around, listening . . . We stood a while as well, then went down to the lake . . . Everyone stood facing the lake . . . We went up to the water and there saw something completely unbelievable. Off the surface of the lake came a faint glow . . .

I heard a rustling in the reeds, looked there and saw an old woman. She was crawling on her elbows . . . Behind her was crawling a second, and a third . . . They had vowed to crawl around the whole lake!

After the first mention, that unique lake is referred to by means of a bare noun. (A third-person pronoun would conflict with the speaker’s companion.) Similarly in [214], one clause first establishes the existence of an entity that qualifies as a ‘plateau’. After that, the entity is known as a unique individual, and it is referred to by the bare noun.

Nouns, then, at first mention introduce and categorize an entity (essential reference); in context, nouns can point to an already known, individuated entity.

4.5.3 Third-person pronouns

A third-person pronoun is the neutral exponent for keeping track of an entity that is established as a distinct individual.48 Normally a pronoun is used

48 On anaphoric pronouns in Russian, see Paducheva 1985.
throughout a series of predicates that form a coherent block of text, so long
as the text has no boundaries: there are no competing referents of the same
gender–number, the time-worlds are the same, and the unit of text (the episode)
is the same. In [215], the individual is identified by a noun at the beginnings of
episodes, and pronouns are used within the episodes.

[215] Все последнее время папа собирался в Каир, на конгресс археологов. Настал
dень отъезда. Мы провожали его на вокзал, неловко толклись рядом с ним на
перроне, жалея его за таких нескладных детей, на него не похожих . . .
Папа слал нам письма с пути, из Афин и из всех городов, через которые ехал
< . . . > Чудесные письма! < . . . > Но почему-то он не получал наших ответных
писем.
Мы уже ждали скорого возвращения папы.
All this time papa was getting ready to go to Cairo, to a meeting of archeologists.
The day of departure came. We took him to the station, awkwardly hanging
around the platform with him, pitying him for such useless children, so unlike
him . . .
Papa sent us a letter from Athens and from all the cities he traveled through
< . . . > Wonderful letters! < . . . > For some reason he didn't receive our answers.
We were already expecting papa's return any moment.

Anaphoric pronouns usually refer to well-established individuals with distinct
properties. But in Russian anaphoric pronouns can also refer back to essential
descriptions, where in English some other pronominal form (one, etc.) would be
required.49

4.5.4 Ellipsis (“zero” pronouns)
As a rule, Russian uses an overt phrase – a noun or a pronoun – for its subject
argument and, when the verb is transitive, for the object argument. In this
respect, Russian is not what has come to be called “a pro-drop language.”50

50 It is a question whether “pro-drop language” is a unitary concept. Discussing Russian, Franks
(1995:317, passim) distinguishes two senses of the term: Russian is like English and French in
retaining subject pronouns (thus all three are positive for the parameter “+Overt Subject Param-
eter”), but Russian is unlike English or French in not requiring dummy subjects (Russian has a
negative value for “Overt Expletive Subject Parameter”: "это холодно"). Moreover, null (elliptical)
subjects are said to be licensed by discourse, and Russian is said to be more discourse-oriented
Yet there are contexts when Russian indulges in ellipsis – when it does without overt subject argument phrases or (less commonly) object argument phrases when those would be expected. (Below, “∅” marks the absence of an expected argument in Russian.) Ellipsis depends on register and mode of language and on systemic factors.

Speech uses ellipsis liberally. Ellipsis is possible in dialogue when the identities of the participants are predictable, as in sequences of question and answer. Often, the question, being more open-ended, contains an overt pronoun, while a direct response to the question lacks a subject, as happens more than once in [217] (1 M/2 L, 12 L/13 M, 16 L/17 M).

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<table>
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</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>М: А он после работы придет / да?</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Л: Да-а / ∅ собирался // Он хочет / у него часы встали // И он хо... хочет их отдать в ремонт/</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>М: Вот сегодня я поеду /// &lt;...&gt;</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Л: А во сколько ты поедешь?</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>М: Ну ∅ вот прямо сейчас наверно поеду ///</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>14</td>
<td>Л: А-а / ну ты вернешься к вечеру / да?</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>15</td>
<td>М: Ну я думаю что часов в шесть-семь я буду ///</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>16</td>
<td>Л: Так что ты Петю-то увидишь ///</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>17</td>
<td>М: ∅ Увижу ∅ думаешь / да? Ну я скажу маме чтобы он меня подождал ///</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

He's coming after work / right?
Yes / [he] meant to // He wants / His watch stopped // And he wants to take it to be fixed/
So today I will go/// <...> |
At what time are you going to go?
Well [I] will go probably right away. ///
Aha / but you'll return by evening / yes?
Well I think at six or seven I'll be here ///
So then you'll see Petya ///
[I] will see him. [you] think so / yes?
Well I'll tell mama to have him wait for me. ///

Pronouns are used when the predicate does more than simply respond to the previous question (2 L, 17 M). Parenthetical phrases that relate to the fact of dialogue lack pronouns, phrases such as: не слышу '[I] can't hear you', знаешь '[you] know', понимаешь '[you] understand', but брось ты 'come off it!'..

In speech that is narrative, argument phrases can be omitted if the individual is understood to be the same in all respects: the same individual with the same properties; continuous text type (narrative or commentary or dialogue); same time-world; and same perspective of the speaker. An overt argument phrase signals a shift or discontinuity. In [218], the overt pronoun restarts the narrative after the commentary (нужно было туда идти), after which pronouns are omitted in the two subsequent events of the brief episode of the first day:

In written Russian, argument phrases are omitted less frequently, but ellipsis does occur. Ellipsis is common in finite subordinate clauses. Ellipsis is usual in adverbial clauses which share the subject with the main clause, as in [219].

[219] Я съездила туда не только в те дни, когда θ танцевала.
I went there not only on the days when [I] danced.

In a modest sample with first-singular subjects and subordinate clauses introduced by когдá (in either order), the pronoun was omitted in the second clause 89 percent of the time (25xx of 28xx).51 Overt pronouns appear in subordinate clauses if there is an intervening subject:

[220] Теперь, когда я вижу юношей и девушек, которые по окончании школы не хотят учиться дальше, я всегда вспоминаю свою юность.
Now, when I see young fellows and girls, who finish school but do not want to study further, I always remember my youth.

Ellipsis is usual in clauses expressing the content of verbs of speech or thought when the subjects are identical, depending on the type of predicate. Ellipsis is close to obligatory with verbs ([221]), less regular with adjectives ([222]), which in turn tolerate ellipsis more than predicate nominals or prepositional phrases ([223]):

[221] Я почувствовала, что {я ~ θ} завладела московской публикой.
I felt that I had conquered the Moscow audience.

[222] Виктор признался моей матери, что {он ~ θ} счастлив безмерно, что {он ~ θ} влюблен, как пылкий юноша.
Viktor confessed to my mother that [he was] completely happy, that [he was] in love, like a passionate young man.

[223] Он сказал, что {он ~ θ} сын помещика, что {он ~ θ} тоже из тех мест.
He said that [he was] the son of a landowner, that [he was] also from that area.

Operations on the predicate like the question мu or questions require a subject pronoun:

51 Based on S. Golitsyn, Zapiski utelevshego (Moscow, 1990).
226  A Reference Grammar of Russian

[224] Я не знала, завладела ли {я ~ *θ} московской публикой.
I was not sure whether I had conquered the Moscow audience.

[225] Мы рассказали, кто {мы ~ *θ}.
We told who we were.

Thus, dependent clauses in written Russian often use ellipsis.

From one independent clause to the next, subject pronouns are generally maintained in written Russian, but ellipsis occurs in written Russian that has the flavor of speech (interior monologue, for example). A subject argument can be omitted if the types of events or properties are related and continuous; if the time-world is the same; and if the individuals are being discussed by the same speaker and addressee. For example, in the following passage, all predicates report on the same theme of the author's biography. After the initial pronoun, no subject pronouns are used until the predicate which starts a new paragraph and brings us out of reminiscence back to the main narrative.

[226] Но гонорар я успел получить. Затем θ писал внутренние рецензии для журналов. Анонимно θ сотрудничал на телевидении. Короче, θ превратился в свободного художника. И наконец занесло меня в Таллинн.

Около магазина сувениров я заметил телефонную будку.

But I still managed to get paid. Then [I] wrote internal reviews for journals. [I] anonymously worked in television. In short, [I] turned into a free-lance artist. And now here fate had dumped me in Tallinn.

Next to a souvenir store I noticed a telephone booth.

Ellipsis of object arguments is possible, if the subjects are the same, the objects are the same, and the second event is closely related to the first, by being part of a series of events ([227]) or an elaboration or explication of the first ([228]).52

[227] Акушерка схватила меня, за ножки, перевернула θ, вверх головой и шлепнула θ, по голой попке.

The midwife grabbed me by my legs, turned [me] upside down, and slapped [me] on my naked behind.

[228] В тот день она продала свое единственное приличное платье. Продала θ дешево, потому что таких платьев было много в магазинах.

That day she sold her only decent dress. [She] sold [it] cheap, because there were many such dresses in the shops.

Ellipsis does not occur when the events are understood as separate events for which it is necessary to restate the participants: if the second event requires the completion of the first ([229]) or if attention is focused on what eventually happens to the object ([230]):

52 McShane 1999.
Into the restaurant came a man and sat next to Harrington. -- Greetings! -- the man roared. Then he noticed Harrington and slapped him on the back.

He took out two stacks of money and slapped them down on the table in front of Leonid.

4.5.5 Second-person pronouns and address

Russian, like French, uses second-person plural forms of the pronoun and of the present tense of verbs - what may be written as the “β-form” - both for true plurals and for formal address to a single person. The second-person singular forms of the pronoun (ты, etc.) and of verbs - what may be written as the “п-form” - are then not only singular but also informal. To an extent the use of address has to be understood as part of a dyad involving two speakers: reciprocal $\Pi \leftrightarrow \Pi$ is mutually recognized familiarity and solidarity; $\beta \leftrightarrow \beta$ implies mutual formality, distance, and mutual acknowledgment of autonomy; the mixed dyad $\Pi \leftrightarrow \beta$ indicates an asymmetry in age or social status.

For a given pair of individuals, the use of pronouns and (less so) forms of names is stable in different speech contexts, though certain kinds of ad hoc changes do occur. Speakers who use mutual $\Pi$ privately may switch to $\beta$ when others are present in a professional setting. It has been reported that speakers can spontaneously, in annoyance, switch to $\Pi$ in place of $\beta$, or, alternatively, that speakers can switch away from $\Pi$ to a more detached $\beta$, indicating the breakdown of cordial, familiar relations.

As a rule, once two individuals have adopted one pattern of address, they can be expected to maintain the pattern throughout their lives. The exception is the ritual transition from $\beta$ to $\Pi$ that marks the emergence of brotherhood or romance:

---

53 The cultural rules for the use of the two forms of pronouns and verbs, and of names in address, are, like many linguistic and cultural rules, internalized by speakers of Russian but little described for outsiders. Kantorovich (1966) inserts personal observations and textual attestations in an impassioned argument against asymmetric $\Pi \leftrightarrow \beta$. Friedrich (1966, 1972) lists ten parameters that influence usage and documents usage in nineteenth-century belles-lettres, which he takes to reflect actual usage, with special attention to instances of shifts (“breakthroughs”) between $\Pi$ and $\beta$. The examples of instability should probably be interpreted as literary maneuvers. For instance, the wild swings in pronoun usage between $\Pi$ and $\beta$ observed between the prince and a seduced-and-abandoned maiden (eventually prostitute) in Tolstoy’s Resurrection has to be understood as part of Tolstoy’s attempt to portray the complex power and moral relations between the two characters. Nakhimovsky 1976 and Alexeev 2000 offer extensive observations about patterns of usage across various ages and social groups. Comrie, Stone, and Polinsky 1996 adds some additional observations.

Aside from this codified rite of transition, speakers otherwise tend to maintain the pattern they establish, from the time in the life cycle when they establish their relations. Childhood or adolescent friends who have grown up with тв devoted to use тв throughout their lives. Thus “to switch from тв to вы when a relationship has reached a certain degree of intimacy is impossible, in fact insulting.”

Actual usage depends on the social class of the interlocutors, their institutional rank and allegiance, age, and how people perceive these variables.

Children grow up being addressed with тв and using тв to address family members and peers. Children learn to address adult family friends with б, with a quasi-kinship title like дядя (Толя), тетя (Лена), and eventually to use б with adult outsiders (teachers, etc.).

The usage among adolescents and young adults is transitional. It was reported a quarter of a century ago that adolescents begin to be addressed with б by teachers and other adults from (approximately) the age of sixteen, and since they already address their teachers (and other authority figures) with б, they would, accordingly, enter into dyads of reciprocal б↔б. For young people amongst themselves, reciprocal тв↔тв seems to be usual now when they presume they belong to the same social sphere – educational or professional or social circles. However, a new acquaintance between members of the opposite sexes in late adolescence used to begin with б if they did not presume a shared in-group.

Middle-aged adults of comparable status who have no prior relationship are likely to initiate reciprocal б↔б. The reciprocal pattern is that favored in academic institutions between persons of different ages (excepting younger colleagues who think of themselves as peers and use reciprocal тв↔тв). Some asymmetry in the relations is inevitably introduced by the name forms that are used in the dyad тв↔б. In particular, a senior person can use the first name (= научное) or the surname (= фамилия) while the junior person uses first name and patronymic (= отчество). Reciprocal б↔б among comparable adults (of comparable status and

56 Nakhimovsky 1976:117, n. 4, a source unusual in making explicit the etiology of address – the fact that speakers establish a pattern of address at some point and thereafter maintain that pattern.

57 Transition to address with б may not be universal (Comrie, Stone, and Polinsky 1996:252).
Arguments

age, with no long-term history) has evidently been losing ground to reciprocal $\Pi \leftrightarrow \Pi$.

Asymmetric usage ($\Pi \leftrightarrow B$) makes explicit an asymmetry in power relations in an institutional setting — in the army, in factories — but it is possible that asymmetric $\Pi \leftrightarrow B$ has lost ground to $B \leftrightarrow B$ and $\Pi \leftrightarrow \Pi$ over the last quarter century. Overall, the development until 1989–91 was in the direction of increasing use of the two reciprocal patterns. $B \leftrightarrow B$ evidently expanded across the institutional spectrum, from the most genteel context of academia to other institutions. $\Pi \leftrightarrow \Pi$ expanded up the age ladder, at the expense of the asymmetric pattern $\Pi \leftrightarrow B$ and the formal pattern of $B \leftrightarrow B$. It remains to be seen what patterns of usage will emerge — in particular, whether the asymmetric pattern $\Pi \leftrightarrow B$ will make a comeback in the culture of the New Russians, where power and status are so vexed.

4.5.6 Names

Names are various, and various combinations are possible. Usage differs depending on whether the name is used to address someone or to refer to someone. Usage differs by genre or function of text. Even in speech, narrative is different from immediate conversation. Official bureaucratic style has its own patterns (in writing and, derivatively, in speech). Memoirs have a distinct style, one that vacillates between familiarity and detachment. Reference is made below to one uninspired, Soviet-era text, a set of short reminiscences by forty writers and family members about the jingoistic poet Alexander Andreevich Prokofev. The text, while formulaic, offers some evidence about the variation that is possible in the use of names to refer to the same individual in a written text.

Russian names have maximally three parts: the formal given name (имя, hereafter, “$\mathbf{I}$”), such as Алексей; the patronymic (отчество, hereafter “$O$”), such as male Алексеевич, female Алексеевна; and the surname (or family name, фамилия, hereafter “$F$”), such as male Алексеев, female Алексеева. In place of the formal first names, diminutives (уменьшительная форма, hereafter, “$U$”), such as Алеша, are often used.

**Given name/имя ($\mathbf{I}$ or $\mathbf{U}$):** In address, someone who is addressed with the informal pronoun $\Pi$ is as a rule also addressed by the given name, and in fact by a diminutive form rather than the full form of the given name. The forms of $\mathbf{U}$ are legion. For example, the formal name Алексей ‘Aleksei’ gives Алекса, Алеша, Леха, Лена, Алешенька, Алекс, Лекся, Лексей, Лексейка; similarly,
Мария 'Mariia' gives Мари́йка, Мари́ша, Марь́я, Муля, Муся, Маруся, Мари́ота, Васька, Му́ша, Маня, Маню́ня, Манию́ша, Маша, Машу́ня, Марь́ыша.61 У is used to address a person with У and to refer to a person whom the speaker would address by У.

Most diminutive names belong to the second declension, and end in {-a} in the nominative singular. In address, the final {-a} is often lost, and the preceding consonant does not devoice: Наташа, Вить, дядь [d], Сереж [z]. The more explicit form with {-a} is preserved when a dialogue is initiated ([232]):

[232] 1 В: Здравствуй Лена // Это Марьяна Greetings Lena // This is Mariana
  2 Л: Добрый день Марьяна Good day Mariana.
  3 <...> <...>
  4 В: Ну всего доброго Лен // Well all the best Len // Come see us
     Приходи как-нибудь к нам some time
  5 Л: Хорошо Марьян // Как вырвусь так Fine Marian // Soon as [I] get free [I]
     приду will come

The less explicit form (Лен, Марьян) maintains or confirms an ongoing connection between speaker and addressee (4В or 5Л in [232]).

The more formal И is used less commonly than У. Still, it can be used by a speaker (for example, by a spouse) as a more detached, less intimate referential form than the diminutive. Thus, in talking to her friend Natasha, Sveta refers to her husband as Андрей:

[233] И: И вы долго шли там? Did you walk for a long time there?
   C: По этому каньону мы шли-шли / Along that canyon we walked and
     Андрей конечно хотел его насквозь walked / Andrei of course wanted to
     пройти walk all the way through it

Given name-patronymic/имя отчество (ИО): The given name is used together with the patronymic as a conventional combination. In address, a person who is addressed by И is usually addressed using ИО. Conversely, a person addressed using ИО is addressed with И:

[234] Маргарита Наполеонова / а расскажите о Париже
   Margarita Napoleonovna / tell us about Paris

   By using ИО to refer to someone, the speaker invites the addressee to think of the person as someone who might be addressed in those terms, by means of ИО and И. There are many possible motivations: the speaker is acquainted with the person; the speaker knows the addressee is acquainted with the person; the

61 Listed in the popular handbook Grushko and Medvedev 2000.
speaker invites the addressee to think of the person as someone who might be addressed. We do not know Pushkin, but we can discuss him as a person who might be addressed:

[235] Пушкинские сосны уже нет возле села Михайловского, как нет и самого Александра Сергеевича, его детей . . .

The Pushkinian pines are no longer at Mikhailovskoe, just as there is no Aleksandr Sergeevich himself, nor his children . . .

A person who could be addressed is a private individual, one with unique habits or qualities that the speaker (or the reader) could observe (as in [236]). These private, personal properties are opposed to the public and professional properties of the individual:

[236] Мы жили в Доме творчества в Комарове. Стояла холодная зима. Прокофьев в те дни переживал трагическую кончину сына Сани – нашего, тогда еще молодых писателей, товарища – даровитого поэта и переводчика. Те, кто находился рядом с Александром Андреевичем, старались отвлечь его . . .

We were living in the Dom Tvorchestva in Komarovo. It was a cold winter. Prokofev in those days was trying to get over the tragic death of his son Sania – a comrade of us writers, who were still young then – a talented poet and translator. Whoever was around Aleksandr Andreevich tried to distract him . . .

The first reference by means of ♂️ presents a journalistic fact, after which the perspective shifts to discuss how this individual, now ḢΟ, interacted with others as a private person.

The patronymic Ḍ is used occasionally by itself in peasants’ or workers’ speech, addressed to avuncular figures, a famous example being наш Ильич [Lenin], or among the intelligentsia as a teasing parody of that type of usage.

Surname/фамилия (♂️): The surname ♂️ can be used by itself or in combination with the given name Ḣ or ḢΟ. The combined forms Ḣ♂️ or Ḣ♂️ would ordinarily not be used in address, except in bureaucratic contexts (for example, reading a list of names). ♂️ can be used by itself in address with Ḥ. This pattern can signal: a remnant of schooldays, solidarity within some profession or status group (when Ḣ is reciprocal), or condescension from a superior to an inferior (when the address dyad is asymmetric ♂️↔♂️).

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In reference, \( \phi \) is used in an anaphoric fashion to refer to a known individual in the middle of an episode, once the identity of the individual and some properties of the individual are established ([236], [237] below).

The combination of all three names ИОФ (for example, Александр Андреевич Прокофьев) provides a complete identification of an individual, potentially with all properties relevant, with overtones of grandeur, to initiate or finish off the discussion of an individual. Using initials (А. А. Прокофьев) is more bureaucratic than the explicit ИОФ.

The combination of ИФ (without the отчество) is used especially for public figures (actors, writers, etc.). It invites one to think of the public as opposed to the private individual – for example, to introduce individuals for a public performance ([237]):

[237] Вслед за Всеволодом Вишневским выступил Александр Прокофьев. Он вышел на сцену уверенным, твердым шагом. Первые же слова его проникли до глубины сердца. Прокофьев говорил, что жизнь и борьба ленинградцев в условиях блокады – это легендарная история мужества, стойкости и массового героизма. Following Vsevolod Vishnevsky Aleksandr Prokofev spoke. He strode onto the stage with a confident, firm gait. His first words went to the depths of the heart. Prokofev said, that the life and struggle of the citizens of Leningrad under the conditions of the blockade – that was a legendary story of courage, resilience, and massive heroism.

The oxymoronic combination ИФ (for example, Саша Прокофьев) indicates that the speaker might personally address the individual with И, but still \( \phi \) gives a more complete identification of the individual for the addressee.

As noted, there is a high degree of correlation between the mode of address and the forms of names. As a rule, formal address in Б is correlated with ИО, and informal address in ИФ is correlated with И. There are exceptions, which have distinct sociological overtones. Some members of the intelligentsia use the diminutive name in address (И) to express familiarity but, at the same time, maintain respectful distance by using address with И. The combination of ИФ with ИО is possible in a highly specific milieu. One of those who wrote reminiscences about Prokofev commented, “I considered him a senior colleague, addressed him with ты, though as Alexander Andreevich”: age merits the respect of ИО at the same time as the enforced solidarity of party culture implies ИФ.

Table 4.11 gives a list of name forms, with a statement of their typical meanings and stylistic connotations. By “given” is meant reference to an individual whose identity is already established in the text; by “introduced” is meant a process of establishing or introducing an individual in the current text.
Table 4.11 Names

<table>
<thead>
<tr>
<th>form</th>
<th>example</th>
<th>mode, individual, properties / stylistic connotation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ю</td>
<td>Саша</td>
<td>address with III or reference to given individual, with private properties / intimate</td>
</tr>
<tr>
<td>Н</td>
<td>Александр</td>
<td>reference to given individual as if not an addressee, with private properties / less intimate than Ю</td>
</tr>
<tr>
<td>О</td>
<td>Андреевич</td>
<td>address / folk, uncultured (jocular)</td>
</tr>
<tr>
<td>НО</td>
<td>Александр Андреевич</td>
<td>address with Б; reference to introduced or given individual / (formal) addressee</td>
</tr>
<tr>
<td>УФ</td>
<td>Саша Прокофьев</td>
<td>reference to introduced individual / as if intimate addressee</td>
</tr>
<tr>
<td>НФ</td>
<td>Александр Прокофьев</td>
<td>reference to introduced individual with open public properties, episode onset or coda / formal or bureaucratic</td>
</tr>
<tr>
<td>НГ</td>
<td>Александр Андреевич</td>
<td>reference to introduced individual with public properties, text onset or coda / formal or bureaucratic, pompous</td>
</tr>
<tr>
<td>Ф</td>
<td>Прокофьев</td>
<td>address with III or Б; reference to given individual with specific, partial (episodic) properties / neutral</td>
</tr>
</tbody>
</table>

4.6 Demonstrative pronouns

4.6.1 Этот

The two demonstrative pronouns of Russian, in one way or another, point out entities. Это is proximal, pointing to something relatively near or known in the discourse. Тот is distal, pointing to something less near or less known, though тот is used in quite specific functions. A demonstrative adopts the gender–number and case of the noun which it modifies. A demonstrative can be used without an explicit head noun, as an argument, and agree with the intended referent. The neuter singular forms это and тó have developed specialized uses that go beyond the narrow sense of pointing to a specific entity.

A familiar and basic function of demonstratives is to point to entities that are present in the speech situation, such as, for example, the coffee pot (called a кофейка) in [238].

Comment. In the literature on reference, the task is often taken to be to describe how “we can identify an object by means of a referring expression” (Lyons 1977:648); demonstratives are assumed to differentiate one individual from a set of comparable individuals. This view presumes that individuals are given and waiting to be pointed to. In fact, a demonstrative creates the individual for the current discourse; the background from which the individual is selected is not necessarily a universe of analogous elements. On Russian demonstratives, see Paducheva 1985, Kresin 1994 ([242], [243], [244]), Grenoble 1998.

Weiss 1988 documents asymmetries in the usage of the two pronouns.

On the anaphoric use of demonstratives, see Berger and Weiss 1987; Weiss 1988, 1989.
And how does this thing work // I get it, you have to clean out every hole.

In [238], by using the demonstrative and the minimal class name (утюжка), the speaker takes an object in the domain of the external reality of the speech situation and moves it into the domain of speech. Similarly, by using the demonstrative in [239], the speaker brings the article of clothing, which is in the speaker’s visual field, into speech:

[238] А как работает эта утюжка || значит нужно прочисть... прочищивать каждую дырочку.

[239] Ленка, а ты это платье в этом году сшила или в прошлом?

Lenka, that dress – was it this year you sewed it, or last year?

In both [238] and [239], the function of the demonstrative is not so much to differentiate these specific tokens (this thing or this dress) from other possible entities of their class (from other things or other dresses) as to select these entities in one domain – here, the real-world situation in which the activity of speech is embedded – and establish them as entities that can be discussed in speech.

Demonstratives also operate in the domain of text, pointing from the current discussion to the domain of the prior discussion. Recall that bare nouns without a demonstrative can easily be used in Russian to refer back to unique individuals (озеро in [4.213] and плато in [4.214]). For example, in the narrative of a hiking expedition in the Crimea ([240]), the narrator first asserts that they entered what she calls a canyon:

[240] А на следующий день уже вошли в настоящий каньон || Мы с Мариной вернулись к рюкзакам / а они пошли дальше || И они вышли... прошли каньон насквозь

The next day we entered a real canyon // Marina and I went back to the backpacks / while they went on // And they came out... they went through the whole canyon

When the hike becomes difficult, the party divides, and the speaker’s husband and a friend continue. Throughout this episode, the ravine is a known entity with a constant property; it is the site of a challenging hike. Here no demonstrative is used. In the continuation in [241],

[241] Вот // Теперь... Ну мы вернулись из этого каньона / опять уже стало темнее / мы разбили... опять палатки / переночевали

So // Now... We came out of this canyon / again it had started to get dark / we broke out... the tents again / spent the night

the speaker uses a demonstrative to begin a new text segment (note Вот // Теперь... Ну). By using the demonstrative, the speaker indicates that the canyon
now under discussion is, after all, the same canyon discussed in the prior text segment. In broader terms, demonstratives “point” in the sense that they connect an individual across two domains; they indicate that there is continuity of identity despite there being a shift from one domain to another.

Demonstratives can also be used to establish that there is a unique individual under discussion even when no individual was previously established. In particular, a demonstrative can turn a shapeless event or state – посмотрел in [242], наступила тишина in [243] – into something that can be discussed as an entity:


[243] Он не успел ответить. Вдруг наступила тишина, и в этой тишине Марк услышал голос Сталина: <...>
He was about to reply when silence suddenly fell. In this silence Mark heard the voice of Stalin: <...>

The nouns used with demonstratives help define the class of entities to which the entity is thought to belong, at this point in the text. Sometimes a new noun is introduced to re-classify an individual which is already known in other respects.

[244] Будягин единственный как-то с ним сблизился. Рабочий парень из Мотовилихи, он впервые увидел кавказца, пожалел этого южанина, засланного в холодную Сибирь, в условия, суровость которых выдержит и не всякий русский.
Budiagin had been the only one who managed somehow to get along with him [=Stalin]. A working-class lad from Motovilikha, as soon as he spotted the Caucasian, he felt sorry for this southerner banished to chilly Siberia, to ferocious conditions that not every Russian could endure.

As the noun places the individual in a new category – those people who come from the Caucasus – the demonstrative connects the new category (essence) to the prior mention.

The class of things to which a demonstrative points has some connection to the class named by the noun, but it does not have to match it exactly. In [245], for example,

[245] Я помню в детстве / наша будка оказалась рядом с Фаберже / с каким Фаберже / я не знаю / будка была / и вот / как сейчас помню / этот Фаберже пришел / мой отец с ним разговаривал / сидели в костюмах
I remember in childhood / our booth turned out to be next to the Fabergés' / with which Fabergé / I don't know / the booth was / and so / as I recall now / that Fabergé came / my father talked with him / they were sitting in their bathing suits the function of the demonstrative is not to single out this Fabergé from other Fabergés. The set is not people bearing the name Fabergé, but the inclusive hypernym of wealthy tourists that includes this particular person.

Thus using a demonstrative with a noun is a complex operation. A demonstrative points from the domain of the current discussion to some other domain, such as the real world surrounding speech, the adjacent text, or the set of comparable entities; there is continuity of reference – the individual is the same – in spite of the shift in domains.

4.6.2 *Тот*

*Тот*, more restricted than English *that*, has quite specific functions.

In speech, *тот* can indeed be used, in opposition to proximate *этот*, to point to a distal object. In [246], the distal location is confirmed by the distal adverb *вон*:

[246] – Товарищи, я к вам с той лавочки.
   Просто в том вон доме есть столовая.

   – С улицы?
   – Да. И мы решили прямо в порядке очереди заходить, ведь пожары все хотят.
   – А чего, правильно.
   – Так что эта лавочка за нами, а вы за ней, хорошо?

   – Командиры, я пришел к вам от этой лавочки.
   Просто в том вон доме есть столовая.

   – На улице?
   – Да. Мы решили прямо в порядке очереди заходить, ведь пожары все хотят.
   – А чего, правильно.
   – Так что эта лавочка за нами, а вы за ней, хорошо?

   – На улице?
   – Да. Мы решили прямо в порядке очереди заходить, ведь пожары все хотят.
   – А чего, правильно.
   – Так что эта лавочка за нами, а вы за ней, хорошо?

   – На улице?
   – Да. Мы решили прямо в порядке очереди заходить, ведь пожары все хотят.
   – А чего, правильно.
   – Так что эта лавочка за нами, а вы за ней, хорошо?

   – On the street?
   – Yes. We decided to go in, keeping the right order 'cause everyone wants a bit to eat.
   – Good idea, why not?
   – So this bench is after us, and you’re after them, okay?

*Тот* is used along with *этот* in texts when two participants are under discussion and need to be distinguished. *Это* refers to the more prominent, *тот* to the less prominent referent.


   Years later, my sister Masha told Rina that I had been in love with her. This one [= Rina] acted surprised, quizzed Masha, and that one [= Masha] confirmed that yes, I had been completely, head-over-heels in love.

[248] Рина очень удивилась, переспросила Машу, *та* подтвердила, что <...>

   Rina acted surprised, quizzed Masha, and that one [= Masha] confirmed that <...>

Thus *тот* selects out the more distal of two competing individuals.
When there is no contrast between competing individuals, тóт points to an entity perceived as remote from the current situation. Some examples:

[249] Не знаю, цел ли тог альбом. I don’t know if that album is still intact.

[250] Шестидесят лет прошло, а я накрепко запомнил тог допрос. Sixty years have passed, but I still clearly remember that interrogation.

[251] Недавно перечитал я тог свой сборник очерков. Not long ago I reread that collection of sketches of mine.

[252] в том кафе in that café [in Paris, long ago]

[253] в том (1929-ом) году in that year (of 1929)

[254] Из соседнего вышла старуха, очень похожая на ту, которая здесь жила полвека назад. Я понял, что это была та девочка-соседка, успевшая состариться. From the adjacent house an old woman came out, very similar to that one who had lived here a half century ago. I understood that it was that neighbor girl, who had managed to grow old.

Tóт in this sense becomes idiomatic: в тё времена ‘in those times of yore [unlike now]’, а тóт раз ‘on that occasion’, с тóй стороны ‘from the other [not this] side’, тóт свет ‘the other realm [death]’.

Combined with the adjective сáмый or the particle же (or both), тóт confirms that the discussion still concerns the same individual discussed earlier, when other individuals might be imagined, or the participation of this individual is unexpected:

[255] Танцуя строжайше запрещенный фокстрот, заводили одну и ту же пластинку. Dancing the strictly forbidden foxtrot, we would put on one and the same record.

Similarly, этòт же reminds the addressee that the entity is the same, lest there be any doubt:

[256] Вот // А потом мы на эту же вершину вместе / поднимались / на утро на следующее

So // And then together up this very same peak / we climbed / on the following morning

Tóт commonly initiates an upcoming relative clause that provides a description of the entity or entities that fit a formula (essential reference):

[257] Однажды Сергею показалось, что он нашел именно ту девушку, которую искал всю жизнь. Once it seemed to Sergei that he had found just the very girl he had been looking for all his life.

In this function тóт is easily used without an overt head noun (§4.4.5):
Related is the use of neuter singular тó to provide a head for что clauses embedded as argument phrases when a preposition or oblique case is required in the matrix clause ([259]) (§5.10.2).

We subsequently met another group of people from Kiev / and they also took a dislike to her / on account of the fact that she told them / there was frost in Yalta.

4.6.3 Headless тó, это
The neuter singular forms ñó and тó, used alone without a noun, have developed functions that go beyond their strictly demonstrative functions, although they are related. Both ñó and тó can refer back to whatever was being discussed in the previous discourse:

A specialized variant is: x – ñó y, which first names a topic and then makes an assertion:

Tó used in this function makes the situation remote:

It could be noted that the neuter demonstrative usually comes before the copula, but the copula agrees with the noun that is introduced (masculine in [262], feminine above in [254]).

Headless тó has been lexicalized in various expressions and constructions, such as более того ‘even more than that’, тому́ назáг ‘ago’. The phrase а тó has

become a discourse connective introducing the apodosis in conditionals:

[263] Алеша я тебе налью / а то будет очень холодный
  Alesha, I’m going to pour [coffee] for you now / or else it will be very cold

Repeated, it forms the notable idiom \( tó \ldots, tó \ldots \) ‘first one, then the other’:

[264] Ночью не давали покоя – открывалась дверь, и то одного, то другого
  выкидывали на допрос.
  At night they gave us no peace – the door would open and they’d call in first one,
  then another for interrogation.

While headless \( tó \) has become a connective that links clauses in discourse,
headless neuter \( ñr \) has also extended its functions, but in a different direction.
The starting point is its deictic function of pointing to an entity (in the speech
situation or in the text) and identifying it, such as the first token of \( ñr \) in
[265]. From this, \( ñr \) has become an operator identifying something about the
nature of the situation, such as who the agent was (second and third tokens in
[265]):

[265] A – \( ñr \) твое шампанское? \( ñr \) ты
  принес?
  – Is this your champagne? Are you
  the one who brought it?

  M – Нет, \( ñr \) Лица вчера принесла.
  – No, it was Lida who brought [it]
  yesterday.

Or \( ñr \) can identify some other participant, such as an object (first token in
[266]) or even how the event as a whole is to be characterized (second token in
[266]):

[266] – Вот они, пролетарии, пролетарии!
  Проклятые!
  – Here they are, those proletarians,
  damned proletarians.

  Да ведь \( ñr \) нам кричат, нас
  проклинают! Шура и я пошли мимо
  следующего вагона. И оттуда, увидев
  нас, взрывались те же злобные
  крики, улюлюканье.
  – It was us they were shouting at, us
  they were cursing. Shura and I passed
  by the next car. And from there, once
  they saw us, came the same angry
  cries, hooting.

  – Пойдем обратно, – сказал я
  Шура . . .
  – Let’s go back, I said to Shura.

  – Не обращай внимания, \( ñr \) кулаков
  везут, – сказал Шура невозмутимым
  голосом.
  – Don’t pay any attention, what they’re
  doing is shipping off kulaks, – said
  Shura in an imperturbable voice.

At this point \( ñr \) has become a sentential operator with the function of focusing;
it does not have to have a specific argument position. The uses of \( ñr \) in [265–66]
have become quite usual in colloquial Russian.
4.7 Reflexive pronouns

4.7.1 Basics

Russian has two reflexive pronouns: себя, an argument pronoun, and свой, a possessive adjective.67 Себя occurs in positions in which argument phrases usually occur, except subject position. Себя expresses case, but does not distinguish gender or number. As an adjective, свой agrees in gender, case, and number with the noun it modifies. Свой and себя can refer to first or second persons as well as to third persons.

Pronouns instruct the addressee to posit an individual at the site of the pronoun and go to a source for information about the identity of the individual. On the syntactic domain of a finite predicate in which a pronoun is an argument of the predicate (or modifies an argument of the predicate), the meaning of reflexive and third-person pronouns is complementary. When a reflexive pronoun is used, the source, or antecedent, for the reflexive must be the subject of the finite predicate (indexed <i> in [267] and [268]); reflexives cannot refer to an object (её in [267] or ей in [268], indexed <j>) or to some other third person who is not mentioned in this sentence (indexed <k>):

[267] Моя матерь взяла ее к себе, к своей семье.
   My mother took her to herself, into her family.
[268] Он кратко сказал ему про себя, про свою жизнь.
   He told him briefly about himself, about his life.

By complementarity, non-reflexive third-person pronouns cannot refer to the subject of a finite predicate, but must refer to some other entity, which can be another argument of the same predicate or an individual that is not mentioned as an argument of the predicate at all. In [269–70] the third-person feminine pronouns (неё, её) cannot refer to the subject (indexed <i>) but could refer to the direct object (indexed <j>) or to some other person not mentioned in the predication (indexed <k>):

[269] Она расспрашивала ее о ней, о ее жизни.
   She questioned her about her, about her life.
[270] Два дня они Маше вернули ее заявление с решением: Отказать.
   Two days later they returned to Masha her application with the decision: Denied.

On the domain of a finite predicate, almost any argument phrase can be the site for a reflexive. If English normally uses a non-reflexive pronoun in sentences

such as next to him (?himself) John found a snake, similar constructions in Russian would use себя. Compare:

[271] Солдат дал ему место рядом с собой, на скамейке.
The soldier made room for him next to him on the bench.
[272] На той же станции в трех шагах от себя Маша увидела самого Сталина.
At that station, just three steps from her, Masha saw Stalin himself.

As in [272], it does not matter if the site for the pronoun precedes the subject antecedent; word order is largely irrelevant to the use of reflexive and non-reflexive pronouns.

Thus on the most transparent and frequent domain – that of a finite predicate – there is complementarity between the two types of pronouns in all argument positions: a reflexive means the current referent is the same as that of the subject, while an ordinary third-person pronoun cannot refer to the subject of the finite predicate.

Semantically, a reflexive pronoun means that the individual posited at the site of the pronoun is understood to be the same individual, with the same properties, as the antecedent. In context, subtle variations on the notion of identity of reference arise, especially with the possessive adjective свой. Example [267] above, in which свой establishes that there was a family associated with the mother, might be considered neutral identity in between two extremes. At one extreme, the referent of the pronoun could be defined independently, such as Vladimir’s friend in [273]; this is independent or individuated reference.

[273] Владимир повел нас к большому своему другу художнику Корину.
Vladimir took us to his good friend the artist Korin.

At the opposite extreme, the individual may be defined by its relation of identity to the subject. Thus, свой often suggests that the possessed entity fits exactly because it is associated with the subject, whereas other entities would not fit. In [274], young people want to hear from representatives of that generation associated with them, not from some other generation.

[274] Наша молодежь хочет услышать живой голос представителей своего поколения.
Our young people want to hear the living voice of members of their generation.

This kind of reference is essential, in that the referent of the pronoun is defined by its relation of identity to the antecedent. In context, with свой, essential reference takes on several guises: a DISTRIBUTIVE relation of possessed entities with possessors, a CONTRAST of exactly this possessor as opposed to other possible

68 Timberlake 1980[b].
Table 4.12 Domains and semantics of reflexives

<table>
<thead>
<tr>
<th>Reference</th>
<th>Domain unrestricted</th>
<th>Domain moderately restricted</th>
<th>Domain severely restricted</th>
</tr>
</thead>
<tbody>
<tr>
<td>Individuated reference (individual defined independently of relation of identity to antecedent)</td>
<td>себя, свой</td>
<td>его, ee, их</td>
<td>его, ee, их</td>
</tr>
<tr>
<td>Neutral reference</td>
<td>себя, свой</td>
<td>себя, свой</td>
<td>его, ee, их</td>
</tr>
<tr>
<td>Essential reference (individual defined by relation of identity to antecedent, specifically by a distributive, contrastive, or characteristic relation)</td>
<td>себя, свой</td>
<td>себя, свой</td>
<td>себя, свой</td>
</tr>
</tbody>
</table>

possessors, or the sense that this possessed item, defined by identity to the subject, is characteristic of the entity ([274]).

On the domain of finite predicates, these nuances in reference are merely contextual overtones. But there are also restricted domains on which complementarity is vitiated, and then either a reflexive or a non-reflexive pronoun can be used to refer to the antecedent. In such contexts, the choice of pronoun is correlated with the sense of reference (Table 4.12).

In the vast majority of cases, the domain is the domain of finite predicates, and then pronouns follow the principle of complementarity in an automatic fashion, and these cases require no further comment. The discussion below is devoted to the less automatic, albeit less frequent, contexts.

4.7.2 Autonomous arguments

Adverbial phrases such as несмотря на ‘notwithstanding’, при ‘for all his/her’, по ‘according to’ are commentary by the speaker about the validity of the predication. They are independent of the syntactic domain. In reference to the subject, a possessive pronoun is often свой, especially if the subject might be aware of the relationship (as she is in [275]) but a non-reflexive can be used, if the sentence reflects the speaker’s judgment (as in [276]):

[275] Она, несмотря на свой беременность, целыми днями суетилась.

Despite her pregnancy, she bustled around for days on end.

[276] Но офицеры, несмотря на их недовольство, все же не чувствовали себя рабами.

The officers, their dissatisfaction notwithstanding, still did not feel like slaves.

Non-reflexive pronouns are used with parenthetical по: по его {расчетам ~ признанию ~ словам} ‘by his {calculations ~ admission ~ words}’. Свой is avoided in comitative phrases expressing characteristic qualities whose existence is presupposed:
There rose up forests with their dankness and gloominess.

4.7.3 Non-immediate sites

Pronominal sites which are not direct arguments of a finite predicate, but which are buried inside argument phrases, allow both types of pronouns in reference to the subject:

He made a decision on the most important for him question.

That is how he pronounced all still unusual for him Russian words.

The choice of pronoun depends in part on the adjective's meaning. Affective adjectives, such as важный 'important' in [278], report states that impinge on the well-being of the subject, who is also responsible for evaluating the effect. Similar are: благоприятный 'favorable', главный 'central', дорогой 'dear', неожиданный 'unexpected', обязательный 'obligatory', опасный 'dangerous', отчаянный 'hopeless', полезный 'useful', счастливый 'happy, fortunate', трудный (тяжелый, тяжелый, тяжкий) 'difficult', убойственный 'devastating'. These affective, subjective adjectives readily allow the reflexive to be used (half of the examples in a small corpus of this infrequent construction, 19xx/38xx).

In contrast, non-affective adjectives, such as непривычный 'unfamiliar' in [279], describe a quality of the situation that does not affect the well-being of the subject. The quality is evaluated by the speaker. Similar are: высокий 'high', доступный 'accessible', загадочный 'puzzling', интересный 'interesting', непонятный 'incomprehensible', новый 'new', очевидный 'obvious', странный 'strange', чужой 'alien'. As in [279], such non-affective, objective adjectives use the reflexive sparingly (in 8 of 35 tokens, or 23%).

The reflexive is rare for dative targets of adjectives, even affective adjectives: он не сразу находит нужный ему цвет 'he cannot right away find the color he needs'.

4.7.4 Special predicate–argument relations: existential, quantifying, modal, experiential predicates

Existential, modal (нужно, необходимо 'necessary'), and quantifying predicates (хватает/хватать, достаточно 'be sufficient') have potentially two arguments (§5.3.3). One argument, expressed in an oblique case or with a preposition, is known independently and states the domain on which existence or modality or quantification holds. The other argument, expressed in the nominative

69 Timberlake 1980[a].
or genitive, names the entity whose existence is at issue. Its reference is often defined by a relationship of possession to the domain.\textsuperscript{70}

[280] Да и на войне лошадь тоже находится при деле, ей тоже есть тут свой обязанность.

The horse also has a function in war; it also has its own duty.

[281] Свои запасы горючего ему не хватит.

His reserves of fuel were not going to be sufficient for him.

[282] Ей свой дом нужен.

To her is necessary her own house.

[283] Ей нужна хотя бы видимость своей значимости.

To her was necessary at least the appearance of her (own) significance.


tɒɪ/tɒ=_(' in these constructions defines the essence of the possessed entity: it is a token of the kind of thing that is appropriate for, or characteristic of, this domain or possessor ([280--83]). \textit{Свой} also fits in such contexts if there is a distributive relationship between entities and possessors, where each entity is associated with a distinct possessor.

[284] Каждый шкаф имел несколько секций, к каждой из них был свой ключ.

Each cabinet had several divisions, to each was its own key.

Свой is occasionally used in other arguments if one of the special senses of \textit{свой} comes in, such as a contrast of self opposed to other:

[285] У колхозников на \textit{своих} участках чудеса агротехники.

On their own plots the kolkhoz farmers achieve veritable wonders of agrotechnology.

[286] Я не хотел уходить из цеха. Мне хорошо было в \textit{своем} рабочем коллективе.

I didn’t want to leave the shop. It was good for me being in my own worker collective.

But \textit{свой} is not needed if the entity is independently known (the folder in [287]):

[287] И вдруг я инстинктивно почувствовал, что у меня в руках нет \{мой ~ *свой\} папки.

And suddenly I felt instinctively that I did not have my folder in my hands.

Себя has fewer opportunities than \textit{свой} to occur with existential (modal, quantifying) predicates, but can appear in a comitative expression ([288]) or within a noun phrase ([289]):

[288] У меня оказались с собой спички.

I had some matches turn up on myself.

\textsuperscript{70} In \textit{Его не было в своей комнате} (Staniuk), the reflexive possessive in the domain phrase refers to a genitive.
Experiential predicates are similar to existential predicates. Experiential predicates, usually not verbs, report an experience or state or emotion localized in a domain, which is named in an oblique (dative) case. Another argument, expressed by a prepositional phrase or the genitive, states the focal point of the experience or emotion. The domain is referentially independent and is a natural antecedent for reflexive pronouns in the focal argument.

With experiential predicates, the reflexive is used regularly, without essential force.

4.7.5 Unattached reflexives
Especially in existential constructions, свой often acquires the overtone of something that is appropriate, or characteristic, or uniquely one’s own (as in [280–83] above). In this sense, свой can modify the subject of intransitives that are vaguely existential ([293–95]):

A related sense of свой is the sense of ‘one’s own kind’. In this sense свой can even be used as the subject of transitive verbs:

The fate of an accused person was decided by his own fellow workers.
Here свой creates a contrast of self with others. It is in this sense that свой is used in idioms with no obvious antecedent: публика свой ‘it’s our kind of audience’; свой люди ‘they are our own people’ ≈ ‘we’re among friends’.

Себя is occasionally used without any explicit antecedent, in the sense of ’whosoever might be under discussion’:

[298] Это опасность, которая всегда влечет за собой тяжкие последствия для себя и для других.
That is a danger such as always brings with it serious consequences for oneself and for others.

Used in this way, свой и себя have gone considerably beyond reflexives that only blindly identify the referent of one argument as the same as the subject.

4.7.6 Special predicate–argument relations: direct objects
It is generally true that in Russian, unlike in English, objects do not antecede reflexive pronouns. Nevertheless, the direct object can antecede a reflexive if the predicate records that the argument changes over a domain, where the domain includes the pronoun site.71 The domain can be: the source of emotional equilibrium (это выполнило его из себя ‘that took him out of himself, upset him’; чужие люди отвлекали его от себя ‘people distracted him from himself’); the goal of emotional equilibrium (влечет его к себе ‘that drags him towards himself’; предоставив товарища самому себе ‘turning him over to himself, to his own devices’); or the domain of reciprocal interaction (Я был способен сравнивать клоунов между собой ‘I knew enough to be able to compare clowns among themselves’; Офицеры поняли шампанским обезьяну и собак и стравливали их между собой ‘The officers got a monkey and some dogs drunk and set them fighting amongst themselves’; как связать между собой людей ‘how to bind people amongst themselves’).

In these constructions, the pronoun could hardly refer to anyone other than the object. That is not so with защищать/защищать ‘defend’ – the danger could come from anyone. This verb uses the reflexive pronoun if the source of danger happens to be the object who needs protection:

[299] Папа Карло, разумеется, защищает нас от самих себя.
Papa Carlo, clearly, is protecting us from ourselves.

A possessive adjective is usually not reflexive in reference to the direct object:

[300] Она защищает его от {его ~ своих} друзей!
She is protecting him from his friends.

71 Timberlake 1996.
They left Khristia with her two daughters in her hut.

We accompanied Serezha to his room.

Nevertheless свой can be used to express the special sense of characteristic possession ([303]) or a distributive relationship (in [304], of sailors and ships):

Could one really leave Hijumaa without its own staff?

The authorities were worried about just one thing – how to return the drunken sailors to their own ships.

4.7.7 Special predicate–argument relations: passives

Subjects of passive participles can antecede reflexives:

"trained by its former master, the monkey thrust its paw out and up". Locative arguments, which are defined independently, use non-reflexives:

"a photograph, where her whole family was taken on their modest estate".

The agents of passives, whether overtly named in the instrumental case or implicit, can antecede reflexives:

"a meaning that will be revealed by God to himself only on Judgment Day"; in a letter addressed to his friend, father says'. Arguments that are defined independently use non-reflexive pronouns:

"objects, brought back by father from his trips through various countries".

4.7.8 Autonomous domains: event argument phrases

Event nominals (often derived from verbs) or abstract qualities (often derived from adjectives) can have their own arguments. A subject analog can antecede a reflexive:

If one just thinks of his Spartan rigor with respect to himself, to his talent,

"a note about oneself", (ee) свобода над собой ‘(her)
freedom over herself'. Possessive adjectives are non-reflexive if there is no special (contrastive, characteristic, distributive) sense of reference: рассказ товарища о его встрече с известным литератором ‘the story of a comrade about his meeting with a famous writer’. Often, the possessor is not named, but can be inferred: я видел, какую боль доставляет ему созерцание своих старых картин ‘I saw what pain was afforded to him by the contemplation of his old pictures’.

Event nominals, then, constitute an autonomous domain for reflexives. But since event nominals are used as arguments of a finite predicate, the subject (indexed <i>) is also a potential antecedent for pronouns in event nominals. Both reflexive and anaphoric pronouns can be used in reference to the subject:

[307] Он, надеялся выяснить отношение к {его, своим} словам Брюханова.
He was hoping to get a clear sense of Briukhanov’s relationship to his words.
[308] Петров, заметив внимание к {нему, себе} Сталина, стал сдержаннее.
Petrov, noticing Stalin’s attention to him(self), became more reserved.

A noun that is the head of an argument phrase can antecede a reflexive if it can be construed as the implicit subject of an event or a state: среди равных себе людей ‘among people [who are] equal to each other’; народ, гордый своими победами ‘a people proud of its victories’, настоящие артисты своего дела ‘true artists of their (own) work’; наставник своих подчиненных ‘a trainer of his (own) subordinates’; пророк в своей родине ‘a prophet in his (own) land’.

4.7.9 Autonomous domains: non-finite verbs
Non-finite forms of verbs — adjectival participles, adverbial participles (депричастия), and infinitives — though they lack an explicit subject argument, can be understood as having an implicit subject, which can antecede reflexive pronouns ([309]).

[309] Девица, все еще колотившая себя по груди, попыталась вырваться.
The girl, still striking herself on her breast, tried to break free.
[310] Получив печальную весть о его друге, Федор ходил замкнутый.
After getting the sad news about his friend, Fedor went around depressed.

By complementarity, a non-reflexive pronoun would have to refer to another individual; the friend in [310] cannot be Fedor’s.

Infinitive clauses for the most part behave as autonomous domains which obey complementarity of reference (with exceptions discussed below). In “subject-controlled infinitives” — infinitives dependent on such main verbs as хотеть ‘want’, стараться ‘try’, предпочитать ‘prefer’ — the subject of the finite predicate

72 On the context of pronouns and infinitives, see Yokoyama 1975, Timberlake 1979.
is the implicit subject of the infinitive: the person who wants (tries, prefers) is the person who performs the desired (attempted, preferred) activity. Such constructions obey complementarity of reference, as if they were a finite domain. Thus a reflexive in Моя матерь решила взять ее к себе, к своей семье ‘My mother decided to take her to herself, into her own family’ refers to the implicit subject of the infinitive and the matrix subject, while the non-reflexive pronouns in Она не снизилась расстраивать ее о ней, о ее жизни ‘She did not condescend to question her about her life’ cannot refer to the subject.

Infinitives can be used independently (first clause of [311]) or subordinated to modal predicates (second clause of [311]). The dative argument in the matrix clause supplies the implicit subject of the infinitive and the potential antecedent for reflexives. For the most part such constructions obey the constraint of complementarity:

[311] Жизнь была очень тяжелой. Чтобы хоть мало-мальски кормить себя и своих детей, им приходилось продавать свои немногочисленные вещи. Life was difficult. To feed themselves and their children, however minimally, they had to sell off their not very numerous possessions.

Occasionally, an anaphoric adjective (ее, её, их) occurs, if the possessed entity is defined independently. In [312], Nikolai is a known person; in [313], his years are a given:

[312] Она и Нинке Курзовой жаловалась, а та над ней только смеялась, втайне завидуя, потому что ей не так-то просто. She even complained to Ninka Kurzova, but that one just laughed at her, while secretly envying her, because it was not simple for her to get Nikolai up to that once a week.

[313] Отчего бы ему уставать в его годы? Why should he be getting so tired at his age?

The most complex construction is “object-controlled” infinitives, which have in effect two subjects: the implicit subject of the infinitive, which corresponds to a dative or an accusative object of the main predicate, and the subject of the main predicate. Either can in principle antecede a reflexive pronoun in the infinitival clause. The choice of pronoun depends on the cohesion of the infinitive and the matrix predicate, which in turn depends on the semantics of the matrix predicate. The two clauses are very cohesive if the subject of the matrix predicate controls the outcome of the event, as with дать/давать ‘give, let’, помочь/помогать ‘help’, заставить/заставлять ‘force’. The two predicates are not cohesive if the

If the subject of the matrix predicate is the same person as an argument or a possessor in the infinitival clause, it is in principle possible to use either an anaphoric or a reflexive pronoun, depending on the matrix predicate, as in the schematic example [314]:

[314] Она дала мне позволить мне сопровождать попросила меня.

She {let ~ allowed ~ requested} me to accompany her.

The reflexive is close to obligatory with cohesive predicates ([315]), variable for intermediate clauses ([316--17]), and unlikely for the least cohesive ([318]), yet possible ([319]):

[315] Он не дал этой вспышке побороть себя окончательно.

He didn’t let this flare-up completely conquer him.

[316] Поповник незадолго до этого приказал подать себе коня и куда-то уехал.

Not long before, the colonel ordered a horse brought to him and had gone off somewhere.

[317] Поповник приказал дать ему китель, надел его, застегнулся на все пуговицы и устил нас завтраком.

The colonel gave an order to bring him a coat, he put it on, buttoned up all buttons and treated us to breakfast.

[318] Деда поселился в Японии и просит простить его за внезапное исчезновение.

Uncle has settled in Japan and asks us to forgive him for disappearing suddenly.

[319] Заинайдже попросила положить себя поближе к двери.

Zinaida asked one to place her a bit closer to the door.

When both reflexive and non-reflexive are possible, the difference lies in how the whole complex action is understood. With the reflexive in [316], the matrix predicate and infinitive together amount to one action: he acquired a mount for himself. In [317], with non-reflexive, there are two actions, first commanding and then producing the coat, an entity which becomes the focus of the subsequent narrative.

Less freely, себя in the infinitive clause can refer to the matrix subject, but only if the predicates are cohesive:
Она приказала мне умоляя меня передать письмо дяде в Москву.

She {tried to force me ~ ordered me ~ beseeched me} to deliver a letter to her uncle in Moscow.

The other potential antecedent of reflexive pronouns inside the domain of the infinitive is the implicit subject of the infinitive (and object of the matrix predicate). If an argument of the infinitive is the same as the implicit subject, себя must be used, with all matrix verbs:

Has {would not allow her ~ did not permit her ~ beseeched her} to take the lad to live with her.

With possessive adjectives, the non-reflexive is occasionally possible ([322]):

Directors more than once {tried to force her ~ suggested to her ~ asked her} to change her name to the foreign style.

Cohesive matrix predicates allow anaphoric possessives ([323–24]), while the less cohesive almost require the reflexive ([325]), unless the possessive is a kind of epithet applied to a noun that is defined independently ([326]):

Thus, in infinitive clauses whose implicit subject is an object of the main predicate, either the implicit subject of the infinitive or the matrix subject can
antecede a pronoun in the infinitive clause. Matrix predicates can be hierarchized according to the cohesion between matrix predicate and infinitive, and that influences the choice of pronoun (Table 4.13). As cohesion decreases, the possibility of using reflexives to refer to the matrix subject decreases, and the pressure to use a reflexive in reference to the infinitival subject increases.

4.7.10 First- and second-person antecedents

Reflexive pronouns in Russian can refer to first- or second-person antecedents. When the subject of a finite predicate antecedent of an argument pronoun is a first or second person, себе is used:

[327] Я никому не верю. Никому! Только себе. Я и {себе ~ *мне} теперь не верю!
I don’t trust anyone. No one! Only myself. These days I don’t even trust myself!

One difference from third persons is that, when the pronoun site and the potential source are not in a close domain, it is natural to use a personal pronoun (меня, твой), for example in Я восстановил по свежей памяти важные для {меня ~ ?себя} подробности ‘I reconstructed from memory important for me details’.

In this context, a reflexive pronoun might easily be used with a third-person antecedent ([278] above).

With possessive adjectives, either the reflexive свой or a non-reflexive possessive adjective – мой, твой, наш, ваш – can be used:

[328] В {±своей ~ мой} заплечной сумке, я вез рекомендательное письмо.
In my shoulder bag I was carrying a letter of introduction.
Table 4.14 *Свои* with first-person and second-person antecedents (Petr Tarakhno, Zhizn’, otdannaia tsirk; Konstantin Simonov, Raznye dni voiny, vol. II)

<table>
<thead>
<tr>
<th></th>
<th>свой</th>
<th>non-reflexive</th>
<th>total</th>
<th>% свой</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tarakhno 1ST SG</td>
<td>90</td>
<td>7</td>
<td>97</td>
<td>93</td>
</tr>
<tr>
<td>Tarakhno 1ST PL</td>
<td>10</td>
<td>11</td>
<td>21</td>
<td>48</td>
</tr>
<tr>
<td>Simonov 1ST SG</td>
<td>187</td>
<td>17</td>
<td>204</td>
<td>92</td>
</tr>
<tr>
<td>Simonov 1ST PL</td>
<td>39</td>
<td>11</td>
<td>50</td>
<td>78</td>
</tr>
<tr>
<td>Simonov 2SG/2PL (not imperative)</td>
<td>24</td>
<td>1</td>
<td>25</td>
<td>96</td>
</tr>
<tr>
<td>Simonov 2SG/2PL (imperative)</td>
<td>11</td>
<td>9</td>
<td>20</td>
<td>55</td>
</tr>
</tbody>
</table>

[329] Я впервые увидел {свою ~ ±мою} будущую жену.
I first saw my future wife.

The non-reflexive, likely in [328], refers to an entity known independently. In contrast, the reflexive is appropriate with an essential reading; in [329], *свою будущую жену* is the person who can be defined as fulfilling the role of wife to *x*, *x* being the subject.

Usage can be investigated in memoirs, a genre in which first-person antecedents arise frequently. Table 4.14 records the usage in two memoirs. As can be seen in Table 4.14, the reflexive *свой* is used pervasively with first-person singular antecedents, somewhat less frequently with first-person plural. The reflexive is also usual for second persons, though less so in the imperative, when the immediacy of the situation makes the possessed items more individuated.

The memoirist can speak of himself as the unique, universal memoirist or as an individual whose properties differ in each time-world. The personal possessive *моей* reflects the unique memoirist: *Я хочу остановиться на этом факте моей личной жизни потому, что <...> 'I want to pause on this fact of my personal life because <...>'* [Tarakhno] – his life is his total, unique life; *Десять лет назад я получил письмо от одного из читателей моей книги «Солдатами не рождаются» 'Ten years ago I received a letter from a reader of my book Not Born a Soldier' [Simonov] – the book is timelessly that book; *Не думал я, что в последний раз вижу моего друга Виталия Ефимовича Лазаренко 'It never occurred to me that I was seeing my friend Vitaly Efimovich Lazarenko for the last time'* [Tarakhno] – friendships are not constantly redefined.

*Свой* refers to another self who acted in other circumstances and was associated with entities that existed in other times and places – Tarakhno had his repertoire, Simonov his notes and his feuilletons.
Never before had I modified and searched out my repertoire so studiously. [Tarakhno]

Here the argument with свой has an essential reading: х, the speaker's past self, attempted to define whatever would constitute the repertoire associated with х. The non-reflexive мой can be used, however, when the perspective shifts to a moment in the past:

В эту ночь я показывал Карабинну свой репертуар. [Tarakhno]

That very night, there I was showing Karabinin my repertoire. [Tarakhno]

Once the speaker shifts into the past world, the speaker at that moment has only one unique repertoire (331) and one unique partner (332).

Both reflexive свой and non-reflexive твой/твоя can be used in the imperative. Simonov uses вай when the issue is what to do with known entities (333):

– Куда вперед?
  – На Лослау. Забирайте этот ваш штурмовой батальон и ведите его вперед.
  – Forward in which direction?
  – To Loslau. Gather up that attack battalion of yours and lead it forwards.
  [Simonov]

He uses the reflexive for entities that are not known, but are defined by their relation to the addressee (essential reference: 'whoever your adjutant is, because he has that role'):

Офицеров своих вперед пошлите, адъютанта свой пошлите, оставьте при себе одного-двух человек, остальных всех пошлите вперед.
  Send your officers ahead, send your adjutant ahead, but keep one or two behind, while you send all the others ahead. [Simonov]

Thus, with a first- or second-person antecedent, свой is used almost as regularly as with third persons. The possessive adjective allows more freedom of choice, but the reflexive is still more usual. The non-reflexive is used when an entity has an identity separate from the event and is associated with the unique speaker (мой, твой).

4.7.11 Emphatic pronominal adjective сам

The adjective сам creates a contrast between what is asserted and other options that might be entertained or expected. When it modifies свой, сам reflects
the gender–number of its antecedent (for example, plural in [299] above, singular in [335] below). C Alam may or may not agree in case with себя. When it agrees in case, c ál m registers surprise that it is specifically this entity that is involved in the event as opposed to other entities that might be imagined. In [335], c ál m implies a set of people who might be deceived, but it turns out that the individual who is the same as the subject does not belong to that set.

[335] Буренкова он мог обмануть, но не мог обмануть самого себя.

Burenkov he could deceive, but he could not deceive himself.

Often c ál m does not agree with себя in case, and instead appears in the nominative case, even though it is still positioned next to the reflexive, c ál m себя, or immediately in front of a preposition, c ál m с собо́й ‘with himself’, с ál m по себе ‘by itself’, с ál m за себя́ ‘for himself’. When c ál m remains in the nominative, it contrasts the surprising fact that the event occurred at all with the possibility that it might not have occurred. In [336], the surprise is that the change in the individual has occurred at all, when one might expect no change.

[336] За одну неделю сам на себя стал непохож.

Over the course of a week he became unlike himself.

The difference, then, is that с ál m с собо́й creates a contrast based on the individual – it is noteworthy that Self is affected, when other individuals are not. C ál m себя, with nominative, creates a contrast based on the polarity of the event: it is surprising the event occurred at all, when it might not have.

4.7.12 Retrospective on reflexives

Reflexive pronouns are one of the devices that Russian (and many other languages) use to keep track of an individual. On most domains, choosing between a reflexive and non-reflexive seems automatic, inasmuch as the distribution follows the principle of complementary reference: a reflexive pronoun points to the same individual that is the subject (or, rarely, with special predicates, some other argument), while a non-reflexive indicates an individual distinct from the subject. But there are also contexts in which complementarity of reference is not entirely strict. Complementarity breaks down when the domain containing the pronoun site and antecedent is not cohesive, or when the antecedent is less than a full-fledged subject (passive agents, implicit subjects of infinitives). Moreover, first- or second-person antecedents do not obey the constraint of complementarity of reference with respect to possessive adjectives. In contexts in which both reflexive and non-reflexive pronouns can refer to the same individual, a non-reflexive pronoun indicates that the entity is defined independently. A reflexive pronoun insists that the reference of that entity is to be defined within
### Table 4.15 Retrospective on reflexive pronouns

<table>
<thead>
<tr>
<th>level</th>
<th>reflexive</th>
<th>non-reflexive</th>
</tr>
</thead>
<tbody>
<tr>
<td>essence</td>
<td>entity defined as essence by its relation to the antecedent</td>
<td>entity defined independently of the given predication</td>
</tr>
<tr>
<td></td>
<td>смогу обновить свой репертуар ‘I can renew [that which would be] my repertoire’</td>
<td>остановиться на этом факте моей личной жизни ‘pause on this matter of my personal life’</td>
</tr>
<tr>
<td>individual</td>
<td>the same individual as opposed to other possible individuals</td>
<td>unique individual, no consideration of other possible individuals</td>
</tr>
<tr>
<td></td>
<td>развести пьяных по своим судам ‘distribute the drunks back to their ships’</td>
<td>проводив Сережу до его комнаты ‘accompanying Serezha to his room’</td>
</tr>
<tr>
<td>time-worlds</td>
<td>the entity defined relative to one time-world</td>
<td>the entity independent of time-worlds</td>
</tr>
<tr>
<td></td>
<td>я искал свой репертуар ‘I sought out [what would be] my repertoire’</td>
<td>получил письмо от одного из читателей моей книги ‘I received a letter from one of the readers of my book’</td>
</tr>
<tr>
<td>speaker</td>
<td>from the perspective of one subject as opposed to other possible subjects</td>
<td>from the perspective of the timeless and unique speaker</td>
</tr>
<tr>
<td>perspective</td>
<td>по важному для себя вопросу ‘with respect to an-important-for-him issue’</td>
<td>неприличные для него слова ‘unusual-for-him words’</td>
</tr>
</tbody>
</table>

the given predication, by its relation to the subject. Some of the (not exclusive) senses of the opposition are presented in Table 4.15.

### 4.8 Quantifying pronouns and adjectives

#### 4.8.1 Preliminaries: interrogatives as indefinite pronouns

Pronouns which now function as interrogative or relative pronouns in the contemporary language were historically indefinite: кто ‘who, someone’, что ‘what, something’, где ‘where, somewhere’, etc. In their earlier indefinite meaning, they combined with a variety of particles (or words or small phrases) to form indefinite existential pronouns and negative pronouns. Possible combinations are listed in Table 4.16.

---

Table 4.16 Combinatorics of pronouns and particles

<table>
<thead>
<tr>
<th></th>
<th>на-</th>
<th>нё- (negative)</th>
<th>нё- (indefinite)</th>
<th>-то</th>
<th>-нибудь</th>
<th>-либо</th>
<th>кое-</th>
</tr>
</thead>
<tbody>
<tr>
<td>кто</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>что</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>кого</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>где</td>
<td>✓</td>
<td>✓</td>
<td>†</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>куа</td>
<td>✓</td>
<td>✓</td>
<td>*</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>откуда</td>
<td>✓</td>
<td>✓</td>
<td>*</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>какой</td>
<td>✓</td>
<td>*</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>как</td>
<td>✓</td>
<td>†</td>
<td>†</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>сколько</td>
<td>✓</td>
<td>*</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>чей</td>
<td>✓</td>
<td>*</td>
<td>*</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>†</td>
</tr>
<tr>
<td>который</td>
<td>†</td>
<td>*</td>
<td>✓</td>
<td>†</td>
<td>†</td>
<td>*</td>
<td>*</td>
</tr>
</tbody>
</table>

✓ = occurs normally  
* = (hardly) occurs  
† = infrequent, stylistically restricted (or archaic)

Most combinations are possible, although some, stylistically marked as archaic or folksy, are less frequent than others. The prefixes на(-), negative existential нё(-), and кое- are placed before primary prepositions: на с чем ‘with nothing’, нё с кем ‘there is no one with whom’, кое с кем ‘with someone or another’. The prefix нё- forms two types of compounds, listed separately in Table 4.14: an indefinite pronoun (for example, я некогда был там ‘I was there once’) or a negative existential pronoun with the special syntax of the free (dative-with-infinitive) construction (им<DAT> теперь некогда бывать<INF> в офисе ‘these days there is no time for them to be in the office’; есть<INF> будет нечего ‘there’ll be nothing to eat’). To the set of indefinite pronouns in нё should be added the adjectival нёкий ‘a certain’ (как из программы без особых усилий открыть некий URL или отправить кому-либо по электронной почте письмо ‘how to open a certain URL or send an e-mail without special efforts’). The indefinites in нё(-) are more lexicalized, in that the prefix does not precede a preposition: с нёсколькими ‘with several’, с нёким ‘with a certain’.

These pronouns, especially кто and чтó, can still be used as indefinites without a particle in certain contexts, such as: distributive contexts (‘some fit one description, others do not’):

We made for a motley picture: here and there was someone in military garb, another in an improvised worker's uniform, somebody else in ragged civvies . . .

In conditions, which, like distributive contexts, contrast different types of individuals:

If someone is rich [in Brazil], then he'll be as rich as Croesus, if he's poor, a church mouse is better off.

Or in concessive contexts, with the particle ни next to the verb and бы next to the pronoun:

No matter what thoughts come into a person's mind, they can arise only using linguistic material.

Each of the five sets of pronouns (leaving aside the negative existential and indefinites in не) has its own zone of contexts in which it is likely to be used. Together, the form and the context create a characteristic scenario. As in other cases, it is difficult to say how much is in the meaning of the individual word, how much in the meaning of the context.

4.8.2 Negative pronouns in ни-

The negative ни(-) makes negative existential pronouns that deny that any entity exists that could fit in the event. Ни(-) combines with most pronouns: никт, ничей, etc. (Никоторый is archaic.) Negative pronouns in ни(-) are used when the argument is within the same syntactic and semantic domain as a negated predicate. More than one such pronoun can occur in a given clause ([340]).

Negative pronouns in ни(-) usually appear only if the predicate is also negated, though they can occur in elliptical fragments when there is no overtly negated predicate ([341–43]):

It was fun, no worries, everyone was fed with a thick wheat kasha.
And with what did we occupy ourselves? Well with nothing.

These negative pronouns are used with infinitives dependent on negated finite predicates:

Он еще не успел ничего подумать, решить.
He still had not had time to think over, to decide anything.

Обязуюсь никому, даже самым близким родным ничего не рассказывать, о данном строительстве.
I agree never, to no one, even to my closest relatives, to tell anything about the aforementioned construction project.

The force of negation, however, does not reach into finite subordinate clauses that depend on negated predicates, when instead the pronoun in -нибуть is used:

Он не хочет, чтобы я обращался к кому-то, to turn to anyone'. 75

In complementary fashion, -нибуть pronouns usually do not occur when the predicate is negated: *Он не может сказать, что он не был вовсе, one couldn’t say that . . .', or in questions ([347]):

В голову ему не приходило куда-нибудь спрятаться от нее.
It did not occur to him to hide anywhere from her.

(The -то series is not so restricted: Кто-то пришел, кто-то опоздал ‘Someone didn’t come, someone was late’. See below for -либо and negation.)

The negative pronouns are not required when the force of negation is attenuated, as it is with expressions such as чуть не ‘almost not', пока не ‘until, for so long as not', нельзя сказать, чтобы не . . . ‘one couldn’t say that . . .', or in questions ([347]).76

After supper they all moved meekly, just listening, whether “The Beard” (as they called him) was not snarling about somewhere.

Under conditions of epistemological doubt or dread (with бояться, что(бы) не ‘be afraid lest’ – [6.20]), both series are conceivable, with a different interpretation: with -нибуть the speaker fears there might be some dissatisfied readers; with ни(-) the speaker fears that all readers will be dissatisfied.

If ear ∼ that \{someone wouldn’t ≠ no one would\} like my stories.

Though a negative pronoun in \(\texttt{ни(}\) denies any referent, it does create a position for an argument. Anaphoric and reflexive pronouns can point to negative existential arguments:

\[349\] \texttt{Никто\textsubscript{в}}} не хотел принять на себя\textsubscript{в} ответственность за такое неприятное решение.

No one wanted to take upon himself the responsibility for such an unpleasant decision.

That is, there exists no such \(x\) (\(x\) a person) such that \(x\) would make the decision.

4.8.3 -\texttt{To}, -\texttt{нибудь}

Pronominal compounds in -\texttt{ To}, -\texttt{нибудь} (and also -\texttt{либо, кое-}) are said to be indefinite, but above all they are existential: they invite one to entertain the thought that there is an individual of some type that could fit in the event. The two series of pronouns, -\texttt{ To} and -\texttt{нибудь}, differ in how they conceptualize the individual and hence in the contexts in which they are naturally used.

Compounds in -\texttt{ To} establish the existence of an entity that has certain properties that make it different from other possible entities one might think of. The -\texttt{ To} series is natural when the event is actual and known, as when the verb is a past perfective ([350]) or an imperfective reporting an activity ongoing in the present or past ([351]):

\[350\] \texttt{Со звоном что-то упало на пол.}

With a noise something fell to the floor.

\[351\] \texttt{Там в корридоре что-то \{случалось\textsuperscript{PST} ∼ случается\textsuperscript{PRS}}\}

In the corridor something \{was going on ∼ is going on}\).

Pronouns in -\texttt{ To} are used when the event is actual, and the entity and its properties are fixed.

In contrast, -\texttt{нибудь} is used when the entity and its properties are in some way indeterminate. More specifically, -\texttt{нибудь} is used in the following contexts.

**Epistemological uncertainty**: Operators such as \texttt{возможно ‘possible’, вероятно ‘likely’, может быть ‘maybe’} indicate that it is not certain whether the event occurred at all. Hence the existence of the entity is uncertain, its identity unknown:

\[352\] \texttt{Может быть, просто отмечали какое-нибудь событие.}

Perhaps they were just celebrating some special event.
A question is sufficient to elicit -нёбуть, even with a past perfective ([353]):

[353] Не завела ли ты там какого-нёбуть кавалера?

You haven’t acquired some sort of beau there, have you?

-нёбуть itself can signal that the event is hypothetical – in [354], the bemused speaker imagines a plausible scenario to explain why a young girl failed to appear as expected:

[354] А-а-/ аферист / аферист какой-нёбуть попался / куда-нёбуть не туда увез / поехали на вокзал / продали билеты / он деньги себе взял

A con man / con man turned up / led her off somewhere she’s not supposed to be going / they went to the station / sold the tickets / he grabbed the money for himself

The particle -то would be used if [354] were intended as a factual, not a hypothetical, report.

**Distributive (iterative) contexts:** With -нёбуть in distributive contexts, a different individual fits on each occasion:

[355] Нэпманы забирались к какой-нёбуть нуждающейся старушке, давали за фамильные реликвии ничтожные суммы.

The NEPmen would go to some old woman in need and give miserable sums for the family relics.

**Potential contexts:** Potential contexts include counterfactual ([356]), imperative ([357]), potential (future) conditional ([358]), and deontic ([359]) contexts:

[356] Если бы что-нёбуть с дядей Мишей в дороге случилось, ты нам никогда нашей неосторожности не простил бы.

If something had happened with Uncle Misha on the way, you would have never forgiven us for our carelessness.

[357] Позвони какой-нёбуть из старших.

Call one of the senior people.

[358] Если что-нёбуть окажется в Бразилии не по вкусу, они его возьмут обратно за работу.

If something in Brazil should turn out not to his liking, they’ll give him return passage in exchange for labor.


And then he remembered that he ought to bring her something, some sort of trifle: stockings, coffee.
All these are contexts in which the event is less than certain or less than real, and the entities that are hypothesized to participate have a tentative, hypothetical existence.

Idiomatically, *ч-нибудь* is used when the specific properties are not important – *очереди каких-нибудь полчаса* ‘a line of a half an hour or so’ – and by extension to disparage something through indifference:

[360] Редакторы говорили, что для читателя интересен Достоевский, а не ч-нибудь прабабушка.

The editors said that for readers what was interesting was Dostoevsky, not somebody or another’s great-grandmother.

The complementary distribution of *что* in realis contexts, *ч-нибудь* in irrealis contexts is not watertight. Less-than-real contexts allow *что*, for example, in questions when the speaker suspects the answer:

[361] А у тебя *ч-то* еще не доделано?
   [I take it] you’ve got something to finish off?

In a potential context, *что* emphasizes the eventual uniqueness of the entity:

[362] Но рассказ об его дальнейшей жизни – это новая книга, писать которую будет уже *кто-то* другой, наш преемник, идущий за нами следом.

But the tale of his subsequent life – that’s another book, which will be written by someone else, our successor who comes after us.

When that radiant future arrives, there will be a single unique individual, hence *что*.

In iterative contexts, both types of pronouns are used. In such contexts, *ч-нибудь* makes a condition: whenever some situation arises, whenever an individual of a certain type exists, then something happens, as in [355] above. In iterative contexts, *что* allows one to imagine a representative occasion and describe the occasion and the individual which is unique relative to that occasion. In [363], *что* depicts an individual and his activity. On each of the many occasions, each a sequence of actions, one scene or person is presented:

[363] Эллис сидел, между нас, порой вскакивал, представляя *ч-то-то, кого-то*, и снова возвращался к нам, не прекращая рассказ.

Ellis sat between us, he would occasionally hop up, portraying something or someone, and again return to us without interrupting the story.

It is even possible to combine *что* and *ч-нибудь*. A set of hypothetical occasions can be established first by means of *ч-нибудь*, and then *что* points to an entity that is unique relative to one occasion from the set (in [364], a victim’s life):
And it seemed to him an extreme luxury, this waste of months of time to shorten the prison sentence of some scoundrel who had extinguished someone's life.

In general: -тo signals that there exists an entity sufficiently individuated that it could be distinguished from other possible entities. -Нибудь indicates that a possible individual exists that would fit in the event, but it cannot be differentiated from other possible individuals.

4.8.4 Кoe-
Compounds with koe- seem similar to compounds in -тo. Кoe- invites one to think of a plural set of possible elements that could be involved in the event. Of this set certain entities fit while others might not. Koe- fits naturally in description as opposed to narrative:

-To, in contrast, is interested in whether at least one individual exists. -To fits in causal, sequential narrative. In [367], the hero was able to sit, and further events followed, because there existed at least one individual who made room for him.

-To and koe- then come close to each other's domains, but still differ: -тo implies the existence of at least one relevant entity; no more is known about a set of possible entities. Koe- expresses existence and differentiation of some entities from others in the set.

4.8.5 -Либо
-Либо, like -нибудь, deals with a set of possible entities that might fit in a proposition. If with -нибудь it does not matter which entity is chosen, with -либо there is at least the possibility that some elements fit, others would not. Accordingly, -либо is used when alternative scenarios are differentiated. Four contexts can be distinguished.
**Epistemological uncertainty:** Though -нибуть is more usual, -либо can be used in contexts that comment on the speaker's indeterminate knowledge ([368]), doubt ([369]), incredulity ([370]), or hope ([371]):

[368] Кто-то высказал мнение – может быть, дядя Миша умер от какой-либо болезни.
Someone expressed the thought – maybe Uncle Misha died of some sort of disease.

I doubt that anyone now could do anything similar.

[370] Рекорд вряд ли будет когда-либо побит.
The record will hardly be broken anytime.

[371] Хочу надеяться, что эта яркая серия будет когда-либо напечатана.
I would like to think that, one day, this brilliant series will be published.

**Potential occasions:** In potential contexts – imperatives, future events, events dependent on modal predicates – the usual existential pronoun is -нибуть, which focuses on whether any element exists that would fit: Спойте какую-нибудь хорошую песню ‘Sing some nice song’. -Либо is possible with the future, if there is epistemological uncertainty (see [370–71]), or with modals, if the context suggests multiple occasions ([372]).

[372] Для того, чтобы послать вам письмо, спамер должен откуда-либо узнать ваш e-mail.
In order to send you a letter, a spammer has to find out your e-mail address from somewhere.

**Iterative occasions:** -Либо is used in iterative contexts, if it is of interest that, on various occasions, different elements with different properties would fit.

[373] Приходили на свидание двое, на первую смену являлась его жена, на вторую – его отец или мать или кто-либо из его сестер.
Two people came for the visits, his wife for the first shift, and either his father or mother or some one of his sisters for the second.

**Negation of multiple alternatives:** It has been noted that -либо is often used in contexts of weak or implicit negation. In such contexts -либо invites one to think: no matter which element is selected, the result will nevertheless be the same. -Либо is usual with the preposition без ‘without’ ([374]), with which it is more frequent than -нибуть by a ratio of 100 to 1. -Либо can also be used with comparatives ([375]) and summaries of failed occasions, on which some positive element might have appeared ([376–77]):

[374] Все было организовано само собой, без какого-либо участия.
Everything got organized by itself, without anyone's participation.
In [377], -либо appears in a clause with a negated finite predicate, where ни- is more usual.

-Нибудь and -либо, then, both invite one to think of a possible set of entities that might conceivably fit in the event. -Либо allows that there might be differences among entities, and it implies a process of sorting through possible entities to determine which might fit and which not. It is especially common in contexts of weak negation, when the possibility of differences is entertained and then rejected. -Нибудь, in contrast, asserts from the outset that it is indifferent which individual is selected. Any is as good as the next, and all that matters is that there be at least one such entity that would fit.

4.8.6 Indefinites нёкоторый, нёсколькo
Some interrogative pronouns combine with the negative prefix не-, yielding lexicalized indefinites: церковь, в которой некогда венчалась дочь Шалапина ‘a church, in which Shaliapin's daughter once was married’. Нёкоторый and нёсколькo are common. Нёкто is archaic, typically used modifying a name with a touch of irony: некто Иванов ‘a certain somebody named Ivanov’. Нёкий ‘a certain kind of’ is likewise old-fashioned: Она отправилась к некоему святой жизни старцу ‘She set off for some saintly elder’.

4.8.7 Summary
Table 4.17 paraphrases the meaning of the two widely used existential pronominal compounds in -то, -нибудь, -либо, and кое- and identifies preferred contexts. The meaning is given as a complex of different levels of reference: nature of reference (existential), the individual (in relation to other possible individuals), tense-aspect-modality, speaker perspective, and register.

4.8.8 Negative pronouns in не-
The other series of negative pronouns uses the stressed prefix нё(-): нёкому, нёчего, нёгде, нёкогда, нёкуда, нёоткуда,... (unlikely: нёчей, нёсколько, нёкакой). Нё(-) pronouns are negative modal existentials: they deny any possibility of an individual that might fit in the event. Denying possibility is a modal act, and
Table 4.17 Properties of -то, -нібудь, -либо, кое-

<table>
<thead>
<tr>
<th>Description</th>
<th>Natural Contexts</th>
</tr>
</thead>
<tbody>
<tr>
<td>-то</td>
<td>actual:</td>
</tr>
<tr>
<td>indicates existence of at least one entity</td>
<td>там в коридоре что-то случалось/случается</td>
</tr>
<tr>
<td>(existence of essence) that is potentially</td>
<td>‘in the corridor something’s going on’</td>
</tr>
<tr>
<td>unique (individual) in situations understood as</td>
<td>potential modality if entity unique:</td>
</tr>
<tr>
<td>actual (modality) from an internal perspective</td>
<td>книзу будет писать что-то другим ‘the book will</td>
</tr>
<tr>
<td>(speaker); neutral (register)</td>
<td>be written by someone else’</td>
</tr>
<tr>
<td></td>
<td>iterative if entity unique on each occasion:</td>
</tr>
<tr>
<td></td>
<td>каждое утро он их куда-то вёз ‘each morning</td>
</tr>
<tr>
<td></td>
<td>he took them somewhere’</td>
</tr>
<tr>
<td>-кое</td>
<td>actual if some one way, some another:</td>
</tr>
<tr>
<td>like -то, but: entities viewed as types, some</td>
<td>кое-кто остался ‘someone remained’</td>
</tr>
<tr>
<td>might fit, some might not (individual); informal</td>
<td></td>
</tr>
<tr>
<td>(register)</td>
<td>epistemological uncertainty:</td>
</tr>
<tr>
<td>-нібудь</td>
<td>вероятно, что-нибудь случилось</td>
</tr>
<tr>
<td>indicates the mere fact of existence (existence</td>
<td>‘probably something happened’</td>
</tr>
<tr>
<td>of essence) of any entity fitting the proposition</td>
<td>hypothetical (deontic, potential, counterfactual,</td>
</tr>
<tr>
<td>(individual) that is hypothetical (modality), as</td>
<td>imperative) modality:</td>
</tr>
<tr>
<td>viewed from an external perspective (speaker);</td>
<td>если бы что-нибудь с дядей Мишей случилось</td>
</tr>
<tr>
<td>neutral (register)</td>
<td>‘if anything were to happen to Uncle Misha’</td>
</tr>
<tr>
<td></td>
<td>iterative conditional:</td>
</tr>
<tr>
<td></td>
<td>если что-нибудь неприятное случилось ‘if</td>
</tr>
<tr>
<td></td>
<td>something unpleasant happened’</td>
</tr>
<tr>
<td>-либо</td>
<td>iterative, potential, if selection of some vs. others:</td>
</tr>
<tr>
<td>like -нібудь, but: entities viewed as types,</td>
<td>или кто-либо из сестер ‘or someone of the</td>
</tr>
<tr>
<td>some might fit, some might not; bookish (register)</td>
<td>implicit negation:</td>
</tr>
<tr>
<td></td>
<td>отказался что-либо поесть ‘refused to eat</td>
</tr>
<tr>
<td></td>
<td>anything at all’</td>
</tr>
</tbody>
</table>

Negative existentials are used with the special syntax of the free dative-with-infinitive construction (§5.10.5).

Many combinations have become elliptical and idiomatic: мне некогда ‘I don’t have the time to do it’; нечего делать ‘nothing can be done’; нечего ‘there’s no cause to’, as in Нечего заимствовать технику с гнилого Запада! ‘There’s no reason to borrow technology from the putrid West!’

4.8.9 Universal adjectives
The four adjectives все, всякий, каждый, любой presume a set of entities and then assert that the activity or state could, in principle, extend to any or all
elements in the set. These universal adjectives differ in how possible entities are selected and in the modality of events. 

With plural всë ‘all’, the whole group is undifferentiated: the ships all have the same destination in [378]:

[378] Не было парохода, который шел бы во Францию или в Италию. Всё пароходы шли только до Константинополя.
There was no steamship that went to France or Italy. All steamships went only as far as Constantinople.

Bсё is natural in both general statements and unique past events ([378]).

In the singular, with a concrete noun, всë (фем всї, нт всє) indicates that all parts of a whole are involved (через всє кладбище ‘through the whole cemetery’) or, with an abstract noun, that the quality is manifested in all respects, completely (вся безвыходность ситуации ‘the whole (utter, complete) inescapability of the dilemma’). Thus, всё is exhaustive and collective (non-individuating).

With кжкый, the elements of the set are thought of as distinct individuals, and every individual member of the set could participate in the predication. Кжкый is used in contexts of actual, multiple occasions with present or past imperfectives ([379]), occasionally on a single occasion with a past (realized, actual) perfective ([380]):

[379] Каждое утро Наташу {отводят_мнж _прш > ~ отводили_мнж _пст _> } в детский сад.
Every morning [they] {take ~ used to take} Natasha to kindergarten.
[380] Мать положила _мнж _пред кждым по куску хлеба.
Mother set one piece of bread each in front of every person.

Кжкый is then exhaustive (distributive over all members), individuating, and actual.

Любой selects one individual from the set who could participate in a potential activity. Only one member of the set – it is indifferent which – need be chosen. Любой is then not concerned with multiple, actual situations, but with a single, potential situation. Любой is naturally at home in statements of potential developments or conditions, expressed as an imperative ([381]), a perfective non-present ([382]), or a modal with an infinitive ([383]):

Just ask any professional driver, who he fears most, and you’ll hear without fail: the others in the trade.

Table 4.18 Summary of всев (все), каждый, всякий, любой

<table>
<thead>
<tr>
<th></th>
<th>всев (все)</th>
<th>каждый</th>
<th>любой</th>
<th>всякий</th>
</tr>
</thead>
<tbody>
<tr>
<td>sense of individual entity</td>
<td>bounded set (√ ws) of non-individuated entities taken as a whole</td>
<td>bounded set (√ ws) of individuated entities, all of which actually fit</td>
<td>bounded set (√ ws) of individuated entities, from which a single representative entity is chosen</td>
<td>open set (*ws) of entities viewed as potentially different types</td>
</tr>
<tr>
<td>natural aspectual-modal context</td>
<td>actual, repetitive imperfective; single past perfective</td>
<td>actual, repetitive imperfective</td>
<td>potential (perfective non-past ~ modal ~ imperative ~ repetitive imperfective)</td>
<td>general, potential situation (imperfective)</td>
</tr>
</tbody>
</table>

[382] Если видит, что мне хочется с ним поболтать, отложит любую работу.
If he sees that I’d like to chat with him, he’ll put down any work.

[383] Любую сложную работу можно разбить на простейшие операции.
Any difficult task can be broken down into simpler operations.

Любой is individuating and representative rather than exhaustive of the set (unlike всев or каждый), and potential.

Всякий counters the lingering doubt that perhaps not all members of the set would participate: rather, any possible member of the set, with whatever properties one might choose to name, would be appropriate: ‘no matter which x is chosen, still <...>’. Всякий is unlikely to be used with ws, which restricts the set. Всякий often occurs with negation, actual or imputed: не всякий покупатель ‘not every customer’, без всякого ограничения ‘without any limit’, сверх всякой меры ‘without any limit’, вдали от всякой цивилизации ‘far from any civilization’ ≈ ‘without any of the amenities of civilization’, с меня были сняты всякие подозрения ‘all suspicions about me were removed’.

Всякий implies a static, unchanging situation. Used with imperfectives, it implies the same (negative) result over many occasions, whether actual ([384]) or potential ([385]):

[384] Всякую мысль о новой работе встречал с раздражением.
He greeted any sort of thought of a new job with annoyance.
Censors received instructions to meticulously cross out any sort of reference to Freud.

Used with a past perfective, всъкий points to a resulting state – in [386], the future absence of any contact with dangerous friends:

While each of these universal adjectives has its preferred context, there are contexts that allow more than one of the adjectives, though with different readings:

The sailors worked in a friendly fashion. The young lieutenant himself threw off his officer’s cape and would undertake {every ~ any ~ any manner} of task.

Most natural here is любоe, since the context suggests a condition (‘if and when a task arose’). Всъкоe suggests the presumption that some tasks might not be performed (‘no matter how unpleasant the task’), and кажъкоe fits as a factual generalization about past behavior (‘this is what happened on every occasion when a task arose’).

The relationship of the four adjectives is summarized in Table 4.18.
5

Predicates and arguments

5.1 Predicates and arguments

5.1.1 Predicates and arguments, in general

Argument phrases, which include nouns, pronouns, phrases consisting of nouns and adjectives or quantifiers and nouns, and prepositional phrases, establish entities for discussion.1 Predicates, which include verbs and non-verbal predicates such as надо ‘it is needed’, хорошо ‘it is good’ and predicative adjectives such as свободны ‘free’, report on the properties of entities established by argument phrases and the relations among entities.

We were free in the second half of the day. Serezha Sakharov and I set off to look at the environs. We approached the Pshekha River. We decided to ford the river. We took off our boots, stuck them under our arms, and set off. And then I was knocked off my feet by the current; my boots sailed off. Fortunately, Serezha caught them.

1 Valence patterns – combinations of arguments and predicates – have been well studied in Russian (Apresian 1967, 1974). In general linguistics, the burden of description has been put on the arguments’ “thematic roles,” conceived of as exclusive, binary properties. We emphasize here the semantics of predicates and their relations to arguments. Critical is the idea of predicate history, a description of how a predicate presents change, responsibility, and information. The notions of agent and theme are extended to general notions of responsibility and aspectuality, which are neither binary nor exclusive. With predicate histories, it is possible to make explicit similarities between transitive and intransitive valences (both can combine with prepositional phrases expressing domains of change), to introduce some semantic correlates of case (not unlike Jakobson 1936/1971[b], Wierzbicka 1980), and to make connections between aspect and valence.

The discussion here blurs certain familiar distinctions, such as the distinction between governed arguments (recently, “configurational” cases) and ungoverned adverbial complements. For a rigorous treatment of valence with tests for government, see Schmidt and Lehfeldt 1995.
In [1], for example, protagonists are introduced – the speaker, his companion, their boots, the river – and various properties, many of them changing, are reported – their movement (ногашь), the fate of the boots (попыль), a new relation with the errant boots (поймал).

Argument phrases can mention a wide range of things, and predicates can describe a wide range of possible situations and changes of situations. A given predicate generally occurs with its arguments expressed consistently in the same cases; for example, подойти ‘approach’ takes a nominative subject and a goal phrase expressed by the preposition к(дат). Some predicates can take different cases, but variation in case government is quite circumscribed: nominative or genitive with negated intransitive existential predicates (§5.3), accusative or genitive with negated transitive predicates (§5.4), nominative or instrumental of the predicative complement (§5.2), instrumental as opposed to another case to express synecdoche (§5.6). Overall, the valence patterns of predicates are limited, stable, and conventionalized.

When different predicates use the same cases to mark arguments, the relations of these arguments to their predicates are similar. A predicate uses the accusative (or dative or instrumental) because the relation of that argument to the predicate is similar to other accusative (or dative or instrumental) arguments of other predicates, more similar than to arguments expressed in other cases. For example, all arguments in the dative case are goals, although what it means to be the goal differs depending on the predicate. The dative with дать/dавать деньги ему<дат> ‘give money to him’ is the goal of the transfer of the money; the dative with подобно ему<дат> ‘similar to’ is the goal of a static relation of similarity; with помочь/pомогать ‘help’, it is the recipient of the verbal activity (the help); with надо ‘necessary’, the dative is the individual to whom obligation is directed.

Because the behavior of any given predicate is largely stable, it is possible to construct a typology of predicates according to the arguments with which they occur. Such typologies can in principle be finer, as is the typology of eighty-four kernel valence patterns of Apresian 1967, or they can be coarser, as is the typology below, where seven classes of predicates are distinguished. Before developing the typology proper, it will be useful to introduce basic concepts relevant for describing predicates: tense-aspect-mood and information. Both are relevant on two levels, on the level of the predicate itself (its semantics and interaction with arguments) and on the level of context.

5.1.2 Predicate aspectuality and modality
Predicates report states, situations, and more than that, they describe histories of states. These histories are temporal, in the sense that they are grounded in
time, and they are aspectual, in the sense that the states can change over time. (In the following, the temporal and aspectual character of histories is compressed to a single idea of **aspectuality**.) Predicate histories are also **modal**, in the sense that the states interact with other states and other alternative states.

The change, or aspectuality, reported by a predicate history is often concentrated in one argument, the subject of an intransitive (in [2], the pack of cigarettes is lying in a certain position) or the object of a transitive verb (in [2], the cigarette or the match which are moved).


– Have a smoke! – unexpectedly he offered me a cigarette from a pack lying on the table; he lit up one himself and offered me a light; I lit up and glanced at him.

When aspectuality is concentrated in one argument, it can be termed the **aspectual** argument.

Change is by its nature a modal concept. In [3],


Mother was washing the floor. Her outer skirt she removed, her sleeves she rolled up almost to her shoulders.

the change in the sleeves – the aspectual argument – is associated with different modal possibilities. In the initial, descended position, the affected entity is vulnerable to **possible** contact with soap and water, while after the change in configuration, the entity is presumed to be out of harm’s way. Thus **засучить** reports not only change in physical position, but also changes in **possibilities**.

Aspectuality is not always concentrated in a single argument. Often it is more abstract. Sometimes it has to do with the status of activity; for example, in [2], **взглянул** reports a change in the status of gazing – gazing comes into existence – more than a change in a concrete entity. There is more than one layer of aspectuality. In [2], the event of lighting (**зажечь**) both affects a specific entity (a cigarette) and, at the same time and more abstractly, brings into existence a process (of burning). Thus aspectuality is not always concentrated in a single argument, and in the long run, aspectuality should be viewed as a property of the predicate history rather than of a single argument.

The aspectuality of a predicate – its states and changes of state over time – exists or occurs in spaces of possible states, or **domains**. Oblique cases and prepositional phrases can explicitly name domains – or rather, critical landmarks within the domain.\(^2\) For instance, [1] above mentions the goal of the heroes’

\(^2\) Jackendoff 1976.
Predicates and arguments

motion, к берегу реки ‘to the shore of the river’, and the final goal of ascension of the boots, взяли под мышки ‘took up under our arms’. Because aspectual arguments are objects of transitives and subjects of intransitives, domains in effect state where the motion of these arguments will occur. For this reason, for many of the intransitive valence patterns described in Apresian 1967, there is an analogous transitive combining with the same case or prepositional phrase. For example, Apresian’s intransitive pattern 17 привстать с места ‘stand up from a place’ and transitive 57 сорвать рамы с окон ‘remove the frames from the windows’ both have a domain phrase with the preposition с describing the source of motion of the aspectual argument; in the same way, intransitive 20 подойти к столу ‘approach the table’ parallels transitive 60 жать противника к реке ‘squeeze the enemy against the river’.

The lexical history of a predicate is not only aspectual but at the same time modal. It is concerned with possibilities and with responsibility – why the world is the way it is. A specific entity is responsible to the extent that the reported situation is the way it is because the entity is what it is; if the entity had different properties, what one could say about the world would differ. An argument that is responsible in the sense of having certain properties that determine why the world is the way it is can be termed the MODAL OR AGENTIVE ARGUMENT (using “agentive” here in the sense of “responsible,” but not necessarily “willful” or “conscious”). The subject argument is usually, perhaps always, a modal argument. A subject is obviously responsible when it is an animate being that willfully initiates an activity, such as dispenser of cigarettes in [2]. But subjects can also be responsible when they are not intentional or energetic actors. The subject of быть is responsible by virtue of remaining “in a state of readiness,” anticipating that “there must, or may, occur a certain event” (Slovar’ sinonimov). Or consider the subject X of бояться ‘fear’, who holds the opinion that “the realization of an event Y, undesirable for X, is highly likely, while X is incapable of counteracting Y, and X would like to act in such a way as to avoid Y” (Tolkovokombinatornyi slovar’). This X is responsible in multiple ways. X is responsible for the opinion about the impending event, for the desire to act, but also for the inability to counteract the impending event.

In some instances responsibility can be displaced to an argument that has some other role in the predicate history, for example, the dative argument of это is responsible and, at the same time, the goal of the imposed obligation; the instrumental in мне сшибло течение ‘I was caught by the current’ in [1] obliquely names a phenomenon of nature as the responsible force.

The limiting case of responsibility is the subject of existential predicates like быть. The subject of быть is not agentive in the usual sense of engaging willfully in an activity. Yet it is possible to apply modal operators such as ведь ‘after all’,
And the validity of these evaluations depends on the subject — for example, on the subject’s talents in [4].

But some talent for drawing there certainly was by me \[≈ I \text{ had some talent}\].

In this sense even the subject of existential быть is responsible. The modal argument should be construed in broader terms than the idea of conscious or intentional agency.

Predicate histories are then both aspectual (they are concerned with change over time) and they are modal (they are concerned with possibilities and contingencies). Modality and aspectuality are often concentrated in specific arguments, but ultimately these are broad, layered concepts that belong to the whole predicate, not exclusively linked to specific arguments.

5.1.3 Aspectuality and modality in context

When a predicate is used, its lexical history is embedded in specific time-worlds, namely the here and now of speech, the connected narrative of events in the past, or a projected future. For example, in [1] above, the initial stative predicate establishes a time and a world \(во второи половине дня\), and makes possible the subsequent decision \(отправились обозревать окрестности\). During the extended (imperfective) process of viewing, a sequence of (perfective) actions occurs one after the other, each in consequence of the preceding \(подошли, разу́лись, поплы́ли\). In this embedding of lexical histories in time-worlds, we see the familiar lexico-grammatical categories of tense, aspect, and mood.

A predicate history is located in time (past, present, future); the world in which it occurs can be presented as actual (realis mood) or desired by the speaker of the addressee (imperative) or hypothetical but not actual (irrealis mood). The categories of tense, aspect, and mood are treated together here, and separately from predicates and arguments (§5).

As a predicate is used in context, the time-world of a predicate can be left implicit, to be determined from context, or it can be spelled out: by prepositional phrases \(во второи половине дня, в худшем случае \('in the worst case\)\) or by adverbs \(тоёгдá \('then', часто \('often', постепенно \('gradually')\) or by certain noun phrases without prepositions \(два часó \('for two hours', таким образом \('in such a fashion\). In a loose sense, these phrases expressing information about time and possibility can also be called arguments, though in comparison to subject or object arguments, they are less specific to the particular verb. These adverbial temporal-aspectual-modal arguments, however, are not completely unrestricted. For example, the bare accusative of duration only occurs with imperfective verbs \(Демонстра́ция шла це́льых два часа подряд \('The demonstration went two whole
hours’) and with certain prefixed perfectives; adverbs or prepositional phrases describing the mode of progress of an action only combine with verbs expressing a process; adverbs expressing frequency occur almost exclusively with imperfective verbs; the prepositional phrase за (двое недели) ‘within (two weeks)’ occurs most naturally with perfective verbs which, furthermore, express the idea of overcoming an obstacle. Thus there is some justification for extending the concept of argument to aspectual and modal phrases as well.

5.1.4 Predicate information structure
At the same time that predicates locate states in time-worlds, they shape and rank the information they present, in two ways.

First, they influence how arguments, specifically aspectual arguments, are understood. On the one hand, a predicate can describe a property of an entity presuming that the entity is known as an individual with well-defined properties. For example, in [1] above we are introduced to two protagonists, the speaker and his companion Serezhka, and we gradually learn more about them. This type of reference can be termed individuated, and predicates that impose this sense on their arguments (specifically the aspectual argument) can be termed individuating predicates.

In contrast, predicates are sometimes interested in an entity only for its quantity – for how much there is of something. Existence is minimal quantification: either there is some of an entity or there is none. The entity is often a token of a type, the instantiation of an essence; reference is not individuated, but essential.

In [5] the past tense of быть (были) asserts the existence of the two members of the committee; then оказалось gives a measurement of kilograms, a number without individual characteristics. Predicates that are concerned with quantity, including existential predicates, are quantifying predicates. The difference
between individuation and quantification is one way in which predicates shape information about arguments.

A second way in which predicates shape information is that they rank and hierarchize the information. Any predicate can be viewed as a predication about the entities in the predicate and the universe of discourse at the time. In [1] above we learn something about the two travelers but also about a town and a river, about the author's boots. In the choice of a predicate with its valence pattern, the participants and their properties are in effect ranked, and generally one participant is chosen as subject. The subject is a kind of synecdoche for the whole predicate; the subject's properties are taken to be most informative and representative of the world as a whole.

5.1.5 Information structure in context

In speech and writing, the predicate and its arguments have to be put in linear order, and (in speech) given an intonation contour. Each predicate, as a lexical convention, has a preferred linear order. For example, a transitive verb such as обернуть 'wrap' is likely to have the order nominative subject, verb, accusative object, and domain (я обернула книгу в бумагу 'I wrapped the books in paper'), while казаться 'turn out to be' in an existential sense is likely to have its domain come first in the clause and its subject after the verb (там оказалось столбовое серебро 'in that place there turned up silver plate'). But with most predicates, other orders are possible; for example, the object can be made more the topic by putting it at the front of the sentence:

The book I was supposed to wrap in paper.

And various intonation contours are possible. At the level of discourse, by varying word order, the relationship of the predicate and its arguments can be presented in different ways, and through intonation and sentence stress, different elements can be selected as focal. These modulations of information – how the speaker presents the information of predication in sequence, for the benefit of the addressee – deserve a separate discussion (§7).

5.1.6 The concept of subject and the concept of object

The two threads discussed above – the modal argument and the representative argument – come together in the concept of the subject. The subject, in terms of tangible morphological and syntactic properties, is an overt argument phrase expressed in the nominative case, with which a finite predicate agrees for the features of gender–number (past tense) or person–number (present tense) (§5.9). There are various situations in which predicates do not actually have an
argument in the nominative. In discourse, once a certain individual is identified, it can often be reconstructed from context and need not be named as an argument with each new predicate; note подошёл ‘approached’, разу́лись ‘took off shoes’ above in [1]. Occasionally the expected position of a subject expressed in the nominative case is filled instead by a prepositional phrase expressing approximate quantity: набра́лось до сё́тни аресто́ванных ‘there gathered upwards of a hundred people who were under arrest’. Even in these instances, the predicate is such that there could have been a nominative subject. Similarly, non-finite predicates necessarily lack any constituent in the nominative functioning as the subject in the same clause, though the referent of the missing subject can be supplied from context. Thus “subject” refers not only to arguments actually expressed as nominative nouns, but also to virtual arguments – to arguments that would be overt nominative subjects of a finite predicate, were it not for certain other (quite specific) considerations.

Is there any meaning, any positive value, to being the subject in the nominative case? In recent years, the subject has come to be defined only negatively, as the argument that fails to have any positive qualities. Possibly, however, the nominative subject has a positive value, as used to be assumed in an earlier tradition of grammar.\(^{3}\) The subject is the argument in which the two major strands come together: the subject is the modal argument – it is the argument that is held responsible – and the informational argument par excellence – it is the argument whose properties represent the whole situation of the world.

It is then clear why subjects have special, positive, properties. Inasmuch as the subject is the informational argument, the identities and properties of other arguments are naturally defined relative to the subject – as reflexive pronouns are (§4.7). Because subjects are the arguments most representative of the world, whole predicates can be turned into properties of the subject. Accordingly, it is through the subject that non-finite verb forms (participles, infinitives, adverbial participles) are integrated with the larger clause. For example, the noun modified by a participle (мона́х in [7]) is the subject of the participle (выше́вший),

\[7\]
\[
\text{Нас окликнул откуда-то выше́вший молодой мона́х.}
\]

We were hailed by a young monk who had come out from somewhere.

and the subject of an adverbial participle (б удучи in [8]) is identified with the subject of the finite verb (оте́й in [8]):

\[8\]
\[
\text{Мой оте́й, будучи больным, вообще нигде не ездил.}
\]

My father, being ill, did not go anywhere at all.

\(^{3}\) See Kozinskii 1983, Chvany 1996, on properties of subjects in Russian. Halliday 1970 pointed out that subjects are the focus of modal operations.
Passives present the argument that might otherwise be the accusative object as the nominative subject. Being the “derived” subject of a passive allows that argument to function, for example, as the subject of the modal мóчь; the validity of the possibility hangs on the subject.

The feeling cannot be forgotten.

These are familiar facts, but they serve to remind us that there is some value to being the subject: it is the argument which is most responsible for the state of the world and the argument whose states are representative of the whole world. It is for this reason that – if need be, under certain conditions – the picture of the world reported by the predicate can be reduced to a property of the subject.

Something similar could be said about the direct object. The direct object, which is expressed in the accusative, is expressed in the accusative because its properties are in some way contingent, dependent, subject to change. This is true both when the object is significantly affected, such as the footwear in [1] сапоги мы взяли под мÓшки, and also when it is merely held static in a dependent state, such as the instruments in музыкáнты держáли под мóшками инструмéнты ‘the musicians held their instruments under their arms’. Thus the object (when there is one) is an aspectual argument – an entity whose states are contingent and subject to change. Arguably other entities could be subject to change, as, for example, the hospital in Пóсле инцидéнта генерáла тúт же умчáли в больнýцу ‘Right after the incident they whisked the general off to the hospital’. But such loci are subject to change exactly because the direct object is subject to change; their change depends on the change in the object. The aspectual properties of the direct object – its potential for change – are the most informative and representative of the aspectuality of the predicate, of the possible change of the predicate. If the subject is the argument whose properties best define responsibility for the world, in the object we see the entity whose changes best represent the change of the world.

5.1.7 Typology of predicates
With these concepts in hand, we can construct a typology of predicates as follows. The typology is relevant for valence in the strict sense – the arguments and their cases that occur with given predicates – and also for other patterns of behavior (agreement with quantified subjects, or use of a reflexive сóвò in reference to an argument other than a nominative subject, to name two examples).

(a) IMPERSONAL: Impersonal predicates – one of the distinctive characteristics of Russian syntax – arise by suppressing the possibility of a subject argument. In [10], responsibility is presented as indirect, displaced, and there is no subject
argument; in [11], responsibility is not attributed to anything:

[10] Дорогу залито водой.4
There occurred flooding over of the road by water.

On the bridge I stood for a long time staring at the muddy waves, it made me sick, I hardly made it home.

Or a predicate can be impersonal by suppressing the expression of any possible aspectual argument. Thus with certain verbs stating discomfort in the domains of a person and a body part of the person, there is no aspectual argument. Aspectuality is absorbed in the predicate:

[12] У меня царапает в горле, трещит в ушах.
I have a scratchiness in my throat, a ringing in my ears.

And some verbs reporting adverse effect leave that effect unnamed:

Just as lagoda caught it from Stalin himself.

When the predicate is impersonal, it adopts the neuter singular in the past tense, the third-person singular in present-tense forms.

The term “impersonal” is applied to sentences which necessarily lack a subject, but not to sentences in which the subject argument happens to be omitted by ellipsis (for example, the omitted subject of разулся in [1]) or to unspecified third-plural agents (Меня уверяли, что никаких мальчишек на балы не пускают ‘I was assured that they were not admitting any young boys to the balls’) or generic addressees (тише едешь, дальше будешь ‘go quietly, you’ll get further’).

(b) QUANTIFYING (EXISTENTIAL, MODAL): The verb be and similar predicates establish the existence of an entity in a domain.

In the forest lay deep snow.

As a rule, the domain argument, expressed as a dative or some prepositional phrase (σ<loc>), as in в лесу; y plus genitive is a favorite), is well-defined. The entity whose existence is established is the aspectual argument (снег). That argument is generally the nominative subject. That argument can be genitive if the predicate is negated or if the predicate is one of the lexical quantifying predicates, such as хватить ‘to be sufficient’ (§5.3). In this way quantifying predicates can also be impersonal.

(c) **INTRANSITIVE**: Intransitives are predicates with a sole major argument, the nominative subject. That argument can combine all the characteristic properties of subjects to some or another degree. Thus in *поеzд умчался ‘the train dashed off’, the subject argument *поеzд ‘train’ is the most informational argument (its movement defines the world); it is the modal argument (it is responsible, even if not conscious); and it is the aspectual argument (its position changes). Intransitives often use oblique phrases or prepositional phrases to specify the domain of states over which the aspectual argument changes, for example, the tunnel of *поеzд умчался в туннель ‘the train dashed into the tunnel’ or the shore in [1] (Подошл и к берегу реки).

(d) **REFLEXIVE INTRANSITIVE**: Many intransitives are related to a transitive predicate by the addition of the “reflexive” affix -ся (-сь): *отдаться/отдаться ‘remove oneself’ (отдать ‘remove, send something away’), *постаться/поститься ‘rise’ (пойти ‘raise something’), *строиться/строиться ‘get settled’ (строить ‘settle someone’). Whereas in a transitive the roles of responsible argument and aspectual argument are separated, reflexive intransitives merge these roles, and present a change or relation as not arising from an external source.

(e) **SEM TRANSITIVES**: With some predicates, the aspectuality – change or potential for change – is not localized to an argument expressed in the accusative case. Because there is no accusative object, the predicates are not, strictly speaking, transitive. Yet there is an argument other than the subject that is involved in the change; in this respect they are something more than intransitive. Such predicates might be termed **SEMI-TRANSITIVE**. There are different groups, depending on the case governed by the predicate: genitive, expressing quantification or partial contact (избежать неприятностей<gen> ‘avoid difficulties’); dative, expressing a goal (помочь/помочь directs succor to its dative goal); or instrumental expressing metonymy (управлять страной<ins> ‘govern the country’, держать локтёми ‘to move with the elbows’).

(f) **TRANSITIVES**: A transitive predicate has a nominative subject and an accusative object. The nominative subject is responsible for the state of the object or changes in the object. The accusative object is the aspectual argument, or patient: its states are subject to change and dependent on the flow of the predicate history and, ultimately, dependent on the subject. The object can undergo actual change, as do the instruments of в коридоре пять ребят от восьмил до четырнаадцати настраивают инструменты ‘in the corridor five children from eight to fourteen are tuning their instruments’, or be held in a relationship in which its location or existence is contingent, such as the instruments of музыканты держали под руками инструменты ‘the musicians held their instruments under their arms’.
Like intransitives, transitives can be enriched with phrases expressing the domain of change of the object. Thus *пог.мішки* is the goal of the boots’ movement in [1].

(g) **Predicatives**: with the predicate *be* – that is, the absence of an overt predicate in the present tense or forms of *был, etc.*, in the past and *былъ, etc.*, in the future – an adjective or noun predicates a property of an entity, as in [1] _Бо второ́й половине дня́ мы́ были свобóдны́ ‘in the afternoon we were free’; запись оказалась точной ‘the transcript turned out to be accurate_. The subject argument is modal (responsible) and aspectual – any changes are changes in its properties, as in _два футболístа оказались свободными перед ворóтами ‘two players got free in front of the goal_. The subject is individuated and representative. The domain is the values of the state.

The predicate types listed above can be hierarchized according to the parameter of quantification – viewing the world and its participants as existing or not, as tokens of types – as opposed to individuation – viewing the world in terms of properties of distinct individuals. At one extreme are existential predicates, in which the nominative subject is not individuated and the domain argument is rather the most individuated argument. (Similar are modal and quantifying predicates.) At the opposite end are predicatives, whose subject is necessarily individuated. Transitives are close to predicatives. Intransitives cover a wide range. Among intransitives, verbs of position and motion most easily allow an existential reading.

The individuation of the predicate shows up in: (a) which argument is referentially more prominent, and can therefore serve as the antecedent to reflexives and other reference operations (§4.7.4); (b) the likelihood of using the genitive of negation (§§5.3, 5.4); (c) the likelihood of plural agreement as opposed to singular agreement, when the subject is a quantifier phrase (§5.9); (d) preferred patterns of the order of predicate and its arguments (§7.3).

### 5.2 Predicative adjectives and nouns

#### 5.2.1 General
Like verbs, adjectives can predicate properties of entities, as in [15–17].

My brother Vladimir looks like our uncle.

[16] Она сегодня одущевленная, живая, нарядная.
Today she is animated, lively, elegant.

[17] Она вообще чаще была веселой, ровной, покладистой, чем недовольной, злой.
In general she was more often cheerful, even, obliging, than she was dissatisfied, nasty.

The adjective establishes a property that holds of the subject argument, which is individuated and responsible, inasmuch as the subject’s unique identity determines the validity of the predication. The subject argument is aspectual: if there is change in the property, it is a change in that entity. The subject argument is informative: its property is what is at issue. Adjectives in this construction can appear in one of three forms: the predicative, or “short” form ([15]), the nominative, a “long” form ([16]), or the “long” instrumental ([17]) (§§5.2.5, 5.2.6). In the present tense, no form of a verb is needed to make an adjective serve as a predicate; the adjective itself makes the predication. The corresponding sentences in the past or future use a past or future form of the verb быть ‘be’ that agrees with the subject: Маша была веселая ‘Masha was cheerful’, Маша будет нарядная ‘Masha will be elegant’; adjectives can be used as predicates with forms of быть in the imperative (будь веселой) and in various non-finite verbs of быть (adverbial participle in [8] будучи больным ‘being ill’). It is useful to refer to the whole set of these copular constructions in various tenses and moods as constructions with the verb быть, and include in that designation predicate adjectives in the present tense which do not have an overt verb form of быть.

In parallel fashion, nouns can predicate:

[18] – Он мой старший брат! He’s my older brother!

As with adjectives, predicative constructions with nouns can appear in all tenses and moods. Again, no overt form of быть is needed in the present tense. As predicatives, nouns can in principle appear in the nominative or instrumental (§5.2.5). A noun used as a predicative is interpreted as a property – it states something about the subject – in one of a number of ways: as a relation ([18]), as a description (Он был милый человек ‘He was a nice person’), as a classification into a group (Он был монархистом ‘He was a monarchist’), as a function (Он был начальником той лаборатории, в которой работал муж моей сестры ‘He was the head of the laboratory where my sister’s husband worked’).

Passive participles ([19]) and prepositional phrases ([20]) also function as predicatives:

[19] Арбуз торжественно съеден. The watermelon was consumed triumphantly.

[20] Владимир был в морском бушлате. Vladimir was [dressed] in a navy jacket.
Table 5.1 Typology of predicative constructions

<table>
<thead>
<tr>
<th>construction</th>
<th>meaning</th>
<th>examples</th>
</tr>
</thead>
<tbody>
<tr>
<td>copular</td>
<td>predicative reports property of subject</td>
<td>‘Учитель был новый.’ ‘The teacher was new.’ ‘Он мой старший брат.’ ‘He is my older brother.’</td>
</tr>
<tr>
<td>copular, aspectual-modal</td>
<td>host predicate reports property of subject, subject to change over time-worlds</td>
<td>‘Дело оказалось удивительным.’ ‘The matter turned out surprising.’ ‘Он оказался лучшим учеником.’ ‘He turned out to be the best student.’</td>
</tr>
<tr>
<td>co-predicate, aspectual relation to host predicate</td>
<td>predicative reports state of aspctual argument contingent on host predicate</td>
<td>‘Они вернулись успокоенные.’ ‘They returned comforted.’ ‘Я вернулся седым стариkom.’ ‘I returned a gray-haired old man.’</td>
</tr>
<tr>
<td>co-predicate, modal relation to host predicate</td>
<td>predicative states condition for truth of host predicate</td>
<td>‘И спящий он опасен.’ ‘Even asleep he is dangerous.’ ‘Я знал его ребенком.’ ‘I knew him as a child.’</td>
</tr>
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</table>

Active participles, at least those that are well on their way to being lexicalized as adjectives, occasionally appear in predicative constructions ([21]):

[21] Обстоятельства преступления были явно отягчающими.<p1>
The circumstances of the crime were obviously aggravating.

Constructions analogous to those with be can be formed with other, more meaningful host predicates. Four broad groups of predicative constructions can be distinguished according to the context (host predicate) with which the predicative is used (Table 5.1).5

The four groups can be ranked according to the relative autonomy of the predicative, from copular constructions in which the adjective or noun acts as an autonomous predication (there is no predicate other than past or future be) to those in which the predicative is a co-predicate with an independent, autonomous host predicate. The four groups will be discussed in greater detail below, in reverse order of Table 5.1.

5 The typology of constructions is based on Nichols 1981.
5.2.2 Modal co-predicates
In one type of predicative construction, the situation expressed by the predicative is taken as a given, as a condition, for the event expressed by the host predicate. The coincidence of two states is noteworthy, often because it runs counter to expectations, as does the condition of attire during sleeping in [22]. Common are qualifiers such as и ‘even’, еще ‘still’, уже ‘already’, уже не ‘no longer’, which comment on the unexpected fact that the two events overlap.6 An adjective or participle is nominative, not instrumental ([22]):

[22] Он иногда бросается на кровать и спит одетый< NOM >.
He occasionally throws himself onto the bed and sleeps dressed.

An adjective or participle can be used to state a property of an object, when it will be accusative ([23]):

[23] Настене и спящую< ACC > ее держать доставляло удовольствие.
For Nastena it was a pleasure to hold her even [while she was] asleep.

Nouns ([24]) and nominal adjectives ( взрослый in [25]) use the instrumental:

As a child I always tried to sneak away from the grownups as quickly as possible.
[25] Уже взрослой< INS > Цветаева часто видела умершего Александра Блока < живым < INS > .
Even as a grownup Tsvetaeva often [imagined she] saw the deceased Alexander Blok alive.

A special construction is one in which the predicative adjective, in the nominative or instrumental, refers to ordering of elements: первый/первым ‘first’, последний/последним ‘last’. The nominative is temporal: the entity who is первый is earlier than anyone else:

[26] Именно Жданов первый< NOM > ввел массовые аресты коммунистов.
It was specifically Zhdanov who first introduced massive arrests of Communists.

The instrumental is implicitly nominal. It characterizes an individual in a sequence of individuals, each of which has a distinct role, such as the wedding attendants in [27]:

[27] Первым< INS > держал венец над невестой ее брат Саша, вторым< INS > – я.
The first holding the wreath over the bride was her brother Sasha, the second was I.

6 Exceptionally the predicative can be hosted by a noun with implicit predication: над его письменным столом висит фотография матери еще девушки< INS > ‘Above his desk there hangs a photograph of his mother as a girl’.
5.2.3 Aspectual co-predicates

Predicates reporting the position or motion of an aspectual argument in some space can host a predicative referring to the aspectual argument.\(^7\) Nouns state in what capacity the individual moves (\textit{qua} what) and are instrumental ([28]):

\[\text{[28] Он приехал в Москву и попал на свадьбу шафером.}\]

He came to Moscow and wound up an attendant at a wedding.

With adjectives and participles, both nominative and instrumental are used. The nominative reports a continuing state that overlaps the main action. Hence nominatives combine with imperfectives stating habits ([29]) or events in progress ([30]), and with perfectives expressing a background (episode-initial) state ([31]) or an episode's final static scene ([32]):

\[\text{[29] Благодаря очередям на наших улицах люди ходят хмуры, озабоченные, готовые из-за любой мелочи разразиться бранью. Because of the queues on our streets people walk gloomy, preoccupied, ready to break out cursing over any trifle.}\]

\[\text{[30] Он в этот момент шел уверенный, холодный, собранnyй. At that moment he was walking confident, cool, collected.}\]

\[\text{[31] Был такой случай: пришел я из Академии голодный, затопил \textit{“буржу́йку”}, и стал варить кашу. Here’s what happened once: I came home from the Academy hungry, heated up the stove, and started to cook some kasha.}\]

\[\text{[32] Я вернулся грустный, в Москву. I returned gloomy to Moscow.}\]

The instrumental case reports a change in the property coinciding with the change reported by the host predicate, usually a perfective stating the result of an episode ([33]):

\[\text{[33] Я вернулся в Париж еще более расстроенным. I returned to Paris [having become] even more distraught.}\]

With a transitive verb, it is the object that moves or is situated, and it is the subject of the predicative. The instrumental, suggesting change and causation, is more usual ([34]), but the accusative (or \textit{acc}=\textit{gen}) is possible if the very property is critical ([35]):

\[\text{[34] Его привезли тяжело больным в больницу. They brought him [having become] seriously ill to the hospital.}\]

\[\text{[35] Его посадили голого на осла. They seated him naked on an ass.}\]

\(^7\) Timberlake 1986. Nikunlassi 1993 reports on extensive and meticulous work with informants documenting the effect of various factors on the choice of case.
The adjective in видали Блока живым (INS) ([25]) is an instance of this construction.

5.2.4 Aspectual and modal copular predicatives
Some verbs are copular, but indicate additionally that the predicative relation changes over some boundary. With стать/становиться 'become', the state changes from one time to another. With остаться/оставаться 'remain', the state continues past a certain time despite the possibility it might not. With казаться ‘seem, appear’ or яви́ться/являться 'seem, appear, turn up', the state holds in the speaker's world of perception, though it might not hold everywhere. With these host predicates, the predicative is valid only in certain times or worlds; it could differ in other times or worlds. Because the validity of the state is limited, nouns ([36]) always use the instrumental, adjectives ([37]) generally do:

[36] Он стал известным театральным критиком<INS>.
He became a famous theater critic.

[37] Песок оказался совсем сырым<INS>.
The sand turned out to be completely wet.

The predicative (short) adjective fits if the adjective is restricted by a complement ([38]):

[38] Она осталась довольна<PC> моими ответами.
She in the end was satisfied with my answers.

The nominative adjective, used rarely, emphasizes the continuation of a state, either a prior state ([39]) or a resulting state analogous to an English perfect ([40]):

The method of distributing the newspaper was to be the same as the day before.

[40] Вот какой<Nom> у нее стал сын!
Just look at what her son has become!

5.2.5 Copular constructions: instrumental
In copular constructions with be, an option for both nouns and adjectives is the instrumental.8

With adjectives, the instrumental implies a contrast between two polarities of the state in two time-worlds: in one, the state holds; in another, it does not. Accordingly, in the present tense, where only one value of the state is in view,

---

8 A long tradition sees the instrumental as signaling a difference in the value of the state over a boundary (Mrázek 1961, 1964). Ueda 1992 establishes that the frequency of the predicative (short) form and the nominative depend in a complementary fashion on the referentiality of the subject; the instrumental is neutral (and hence treated separately here).
predicative adjectives do not appear in the instrumental. They appear in the instrumental case in the future tense (approximately a third of the time) or the past tense (approximately a fifth of the time).\(^9\) The instrumental is used when a state is canceled ([41]) or initiated ([42--43]):

[41] Какими они были весельми, эти узкие монгольские глазки! И какие они тусклые и покрасневшие сейчас . . . How joyful they were, those narrow Mongolian eyes! And how they are dim and reddened now . . .

[42] Встреча была опять же безрезультатной. And this meeting as well was \(\approx\) turned out to be without result.

[43] Я надеялся, что все же мое письмо будет полезным. I hoped that, nevertheless, my letter would be \(\approx\) prove to be effective.

The change can be change in an observer's perception as much as change in the real world. In [44], the fragments of Greek marble did not change in time, but, once examined, they turned out to be more attractive than expected.

[44] Эти обломки были необычно привлекательными как по форме, так и по своей оригинальной структуре. These fragments were unusually attractive both in form and in original structure.

In the present tense, nouns normally use the nominative and not the instrumental (unless the predicative means to function in a certain capacity: она здесь агрономом ‘she’s here as an agronomist’). Outside the present tense, nouns normally use the instrumental. The instrumental is used if there is any hint of a change in the state over time, whether cancellation ([45] – he is no longer young) or inception ([46]):

[45] Его дед знал государя, когда тот ещё был мальчиком. His grandfather knew the tsar when the latter was still a lad.

[46] Изгнание Владимира было первым моральным ударом по нашей семье. The expulsion of Vladimir became the first moral blow struck at our family.

The instrumental is used with a noun stating a function of acting in a certain capacity over time (in [47], as a coach for two winters running):

[47] Брат две зимы подряд был в Туле репетитором у мальчиков Лопухиных. Brother worked two winters in a row in Tula as the coach for the Lopukhin boys.


The instrumental is also used when the predicative noun is used to define the subject: as a member of a group ([49]), in relation to another individual ([50]), or as a unique individual satisfying a formula ([51--53]):

He attempts to show that Pushkin in the last years of his life was a monarchist.

He was the son of the famous forester Fedor Karlovich Arnold.

Lancelot was the bravest knight among those who gathered at the Round Table.

The last relative who searched us out was Uncle Alesha.

Their task was the selection of the basic directions of the preparation of models.

Used in this sense, the predicative noun often appears in initial position ([52–53]).

The instrumental is likely whenever negation is involved: when the predicate is irrealis or overtly negated ([54]):

He, actually, was a communist, though he didn’t have a party card. He was not a member of the Communist Party.

In short, with nouns, the instrumental is used when there is any hint of limiting the state in time-worlds or any concern with defining an individual – of indicating that this individual, not others, fits a certain definition. The nominative is used only when the subject is presumed known and the predicative noun contributes little, the communicative weight being carried by the adjective (talented in [55], virtuous in [56]).

He was a man of many and varied talents.

He was a very nice, simple, very modest young person.

After all he was a member of the Politbureau.

The nominative is also possible if the communicative import of the sentence is the fact of the identity ([57]: ‘that he was a member is true’).

5.2.6 Copular adjectives: predicative (short) form vs. nominative (long) form

If an adjective is not instrumental, it can appear in either the nominative (long) form or the predicative (short) form. The choice is partly lexical, partly

10 Shvedova 1952, Tolstoi 1966, Gustavsson 1976, Ueda 1992 (on text usage). There is a long-standing view (Isachenko 1963, but see Boguslawski 1964) that the long form is an attributive modifier of
Table 5.2 Adjectives preferring the predicative (short) form

<table>
<thead>
<tr>
<th>semantic field</th>
<th>examples</th>
</tr>
</thead>
<tbody>
<tr>
<td>(a) measure</td>
<td>вели́к ‘large’, далéк ‘far’, пólон ‘full’, мал́ ‘(too) small’</td>
</tr>
<tr>
<td>(b) attitude</td>
<td>дово́лен ‘satisfied’, согла́сень ‘agreed’, убежьён ‘convinced’,</td>
</tr>
<tr>
<td></td>
<td>увéрен ‘confident’, пáд ‘pleased’</td>
</tr>
<tr>
<td>(c) manner of characterization</td>
<td>с도́востан ‘characteristic’, прису́щ, ‘intrinsic’, характерéн</td>
</tr>
<tr>
<td></td>
<td>‘characteristic’, склонён ‘inclined’, похожé ‘similar to’</td>
</tr>
<tr>
<td>(d) modality</td>
<td>возмóблен ‘possible’, должéн ‘obligated’, намéрен ‘intending’,</td>
</tr>
<tr>
<td></td>
<td>необходимо ‘essential’, нёжéн ‘necessary’, обéжан ‘obligated’</td>
</tr>
<tr>
<td>(e) perception</td>
<td>видéн ‘visible’, слéшен ‘audible’</td>
</tr>
<tr>
<td>(f) variable conditions</td>
<td>виновáт ‘guilty’, гóлодéн ‘hungry’, готовá ‘ready’, знакóм</td>
</tr>
<tr>
<td></td>
<td>‘familiar’, способéн ‘capable’, равéн ‘even’, сёйт ‘satiated’</td>
</tr>
<tr>
<td>(g) modal adjectives</td>
<td>невéдом ‘unknown’, неоспорíм ‘indisputable’, ностáл ‘perceptible’</td>
</tr>
<tr>
<td>(h) evaluative, diminutive</td>
<td>великовáт ‘largish’, малóвáт ‘smallish’, радéшенéк ‘pleased’,</td>
</tr>
<tr>
<td></td>
<td>радéхöнек ‘pleased’</td>
</tr>
</tbody>
</table>

contextual. Moreover, the use of adjectives has evidently been changing; the predicative form is little used in conversation, and is therefore a marker of the written register. Written usage is the primary concern below.

Certain adjectives (Table 5.2) require, or almost require, the predicative form. With these adjectives, the property is contingent and variable depending on the time-worlds.

The predicative form is used when the only argument is a clause.

[58] Исправить этот недостаток мне было очень трудно.<ref>
To fix that deficiency was very difficult for me.

Passive participles are generally in the predicative (short) form:

[59] Нам было предоставлено<ref> купé.  
A compartment was made available to us.

[60] Возле плотины был построен<ref> деревянный двухétажный дом.  
Alongside the dam there was built a wooden two-story house.

In contrast, certain other adjectives use the long form exclusively or preferentially. A productive type is adjectives that describe a property of having or manifesting a substance. An entity either has the substance or does not; there is no question of degrees or contingent manifestations of the property.

a dummy pronominal head – that is, нарéчья in [16] она нарéчья would have the structure:
\[\text{[NP [VC [MORT [ADJP нарéчья]]]]} \]\[\text{+[VC [θ θ] θ]}\]\] [here as in Bailyn 1994; see also Babby 1975[a], 1999].
Pereltsvaig 2001 notes that the difference between two kinds of adjectives, short and long, cannot be expressed if all adjectives are labeled simply as [N, V].
### Table 5.3 Adjectives preferring the general (long) form

<table>
<thead>
<tr>
<th>type</th>
<th>example</th>
</tr>
</thead>
<tbody>
<tr>
<td>(a) substance { -sk-}</td>
<td>сельский 'village', брюссельский 'of Brussels'</td>
</tr>
<tr>
<td>(b) substance { -ov-Ô}</td>
<td>зерновой 'of seed'</td>
</tr>
<tr>
<td>(c) other substance</td>
<td>туманный 'cloudy', деревянный 'wooden', шведский 'Swedish', молочный 'of milk', бумажный 'of paper', буржуазный 'bourgeois', синий 'blue', кáрный 'brown', белокóжий 'two-roomed'</td>
</tr>
<tr>
<td>(d) relational</td>
<td>всесторóнний 'all-sided', давний 'long-ago', срédний 'middle', пóздний 'late', внеóнный 'outside', прéжний 'former'</td>
</tr>
</tbody>
</table>

Aside from the adjectives listed in Tables 5.2 and 5.3, which have little freedom of choice (though that lack of freedom is semantically motivated), there are many adjectives that are used in either form, predicative or nominative. Each form has a preferred context and sense.

The nominative (long) form is used when the concern is with characterizing the essential as opposed to the accidental properties of the subject. The nominative is thus used when the subject is a hypothetical individual ([61]) or something that is defined as an essence (in [62], ‘whatever we had by way of food’). At issue is whether the characteristic holds or not, not under what conditions or to what degree it holds.

[61] Если хозяйка хитрая, злая, то и корова у нее со временем становится очень на нее похожей.

If the housewife is sly, nasty, then her cow with time will become very similar to her.

[62] Чем мы тогда питались, откуда доставали продукты – не помню; еда была невкусная.

What we ate, where we got provisions, I don’t remember; the food was bad-tasting.

If the subject is a well-defined individual, the nominative form describes that individual as a token of a type, often as a general, timeless description ([63]):

[63] Зина — грубая, плоская.

Zina is crude, flat.

But such a description can be localized to a specific time ([64–65]):

[64] За чаем Анна Андреевна была почти веселая.

At tea Anna Andreevna was almost cheerful.
When I took her home in a taxi, she was back to being sad and earnest.

To sum up, the nominative (long) form presents the subject as instantiating an essence and the property as a necessary rather than an accidental one.

A predicative (short) form is used when the subject is a well-defined individual, and the property is an accidental property that could vary in different time-worlds ([66]):

When an adjective is specified by a circumstance or perceiver, as in [67], the predicative form is almost obligatory (97% in one count). [67] She's dissatisfied – with Olga and with her book.

When no modal complement is stated, the predicative form imputes a restriction ([68]):

Because of this concern with contingency, the predicative form fits naturally in discourse that is concerned with causality. Thus this form is used for properties which have consequences ([69–70]) or which themselves are the consequences of other situations ([71]).

In such explicit contexts, the predicative form was selected regularly in a pilot study with half a dozen young educated speakers.

It has been said that the predicative (short) form is used when the property is temporary (as in [67]), while the nominative states a timeless characteristic of an individual ([63] above). There is a certain truth to this. But the nominative can be localized to a single time ([64–65] above), and, conversely, the predicative form can be used in timeless characterizations of individuals ([72]):

Борис никогда в женщинах ничего не понимал. Первая жена, Евгения Владимировна, мила и интеллигентна, но она воображала себя великой художницей.

Boris never had any understanding of women. His first wife, Evgeniia Vladimirovna, was pleasant and cultured, but she imagined herself a great artist.

Here the predicative forms focus on how certain properties interact with others; the properties мила и интеллигентна would be harmless if they were not combined with pretense. Thus the predicative form means not so much that the state is literally temporary as that it is contingent and therefore potentially variable.

In speech, younger speakers use the predicative form less frequently than do written texts, especially in discussions of people. Quite possibly, the pervasiveness of the long form represents an instinct to speak about people as representing types.

5.2.7 Residual есть, суть in copular constructions
Copular constructions in the present tense usually do not have any overt verb form. Nevertheless, relics of third-person present-tense forms of be can be used for emphasis. The relic form есть, etymologically the third singular present, is used in predicative constructions to insist that it is worth making the definition, even if it is tautological.

Я и есть тот маленький винтик без которого ничего не вертится.

Perhaps I am that small screw without which nothing turns.

Есть is common in the idiom что и есть; for example, что и есть суть марксизма ‘that is precisely the essence of Marxism’. The negation of есть is не есть:

Было это не формальное, а подлинное сходство, которое не есть сходство черт.

That was no formal similarity, but a genuine similarity, which is not merely a similarity of features.

The historical third-plural form суть can be used in scientific definitions, when the terms of the definition are plural.
These models have force not by virtue of some intrinsic properties, but because they are traditional components of culture.

5.2.8 ЭТО БЫЛ . . .
The demonstrative *это* equates its referent (something in the text or the speech context) and a predicative noun. In the past or future, the copula agrees with the noun:

[76] Эта была<sub>fem sg</sub> бывшая секретарша<sub>fem sg</sub> Крупской.
That was the former secretary of Krupskaya.

[77] Это была<sub>msc sg</sub> весьма замкнутый мирок<sub>msc sg</sub>.
That was a very closed world.

If the applicability of the equation is restricted by a circumstantial argument, the noun goes into the instrumental, and the copula agrees with *это* (that is, neuter singular):

[78] Это<sub>nt sg</sub> было<sub>nt sg</sub> для всех большим событием<sub>ins</sub>.
That was for us all a great event.

5.2.9 Predicatives in non-finite clauses
Predicatives with non-finite verbs tend strongly to appear in the instrumental. With бывшему, the adverbial participle of be, the instrumental is always used with nouns ([80]), usually with adjectives ([81]), and regularly with passive participles ([82]):

[80] Мать Толстого, будучи {*серьезная хозяйка<sub.nom</sub> ~ серьезной хозяйкой<sub.ins</sub>}, сделала подробную опись.
Tolstoy's mother, who was a dedicated housewife, made a detailed description.

[81] Он вышел из союза, будучи {{?недовольный<sub.nom</sub> ~ недовольным<sub.ins</sub>}}
{оскорблённый<sub.nom</sub> ~ оскорблённым<sub.ins</sub>}
Романовым.
He withdrew from the coalition, being {dissatisfied with} Romanov.

With infinitives whose implicit subject corresponds to the subject of the main clause, the instrumental is obligatory with nouns ([82]), usual with adjectives, though the predicative form is possible for certain adjectives ([83]), and possible for passive participles ([83]), especially as the main verb increases in semantic weight ([84]):

[82] Он может быть {*серьезный хозяин<sub.nom</sub> ~ серъёзным хозяином<sub.ins</sub>}
He could be a dedicated landlord.
In the dative-with-infinitive construction, adjectives in earlier Russian used to be in the dative ([85], from The Igor Tale), but now only the instrumental is used (as in the modern translation of [85] in [86], or [87]):

[85] Луче жъ бы потянууть <dat> быти.  
It would be better to be stretched out dead than to be captured.

[86] Уж лучше иссеченным <ins> быть, чем в неволю достатьь.12  
It would be better to be hacked to bits than to fall into captivity.

[87] Как не быть обманутым <ins> при покупке кассеты?  
How not to be deceived while buying a cassette?

A special construction that has attracted attention in the recent literature is the case used by the adjectives cdм ‘self’ and ogи́н ‘alone’. In reference to the subject of a finite verb or a dependent infinitive, they are nominative, and agree with the subject in gender–number:

[88] Она <fem sg> { поехала ~ решила поехать } сама <fem sg nom> туда, чтобы прояснить ситуацию.  
She {went ~ decided to go} there herself in order to clarify the situation.

When the implicit subject corresponds to a dative or accusative in the main clause ([89]) or the dative of a dative-with-infinitive construction ([90]), cdм is dative. It agrees with the implicit subject in gender–number:

[89] Она { приказала мне <masc sg dat> ~ умоляла меня <masc sg acc> } поехать самому <masc sg dat>.  
She {ordered me ~ beseeched me} to go myself.

[90] Почему бы тебе <masc sg acc> не поехать самому <masc sg dat>?  
Why not go yourself?

The dative in [89] might be thought to show that cdм agrees in case with the implicit – dative! – subject of the infinitive.13 But the dative is not used with subject-controlled infinitives ([88]), and the dative is not always used with infinitives whose implicit subject is an accusative object:

[91] Я заставил Ивана <acc> пойти туда одного <acc>.  
I made Ivan go there alone.

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Table 5.4 Summary of predicative constructions

<table>
<thead>
<tr>
<th></th>
<th>adjective</th>
<th>adjective</th>
<th>adjective</th>
<th>noun</th>
<th>noun</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>pv (“short”)</td>
<td>nom</td>
<td>ins</td>
<td>nom</td>
<td>ins</td>
</tr>
<tr>
<td>copular: present tense</td>
<td>√</td>
<td>√</td>
<td>*</td>
<td>√</td>
<td>*</td>
</tr>
<tr>
<td>copular: past, future tense</td>
<td>√</td>
<td>√</td>
<td>±</td>
<td>±</td>
<td>√</td>
</tr>
<tr>
<td>aspectual-modal copular</td>
<td>±</td>
<td>?</td>
<td>√</td>
<td>*</td>
<td>√</td>
</tr>
<tr>
<td>aspectual co-predicate</td>
<td>*</td>
<td>√</td>
<td>±</td>
<td>*</td>
<td>√</td>
</tr>
<tr>
<td>modal co-predicate</td>
<td>*</td>
<td>√</td>
<td>*</td>
<td>*</td>
<td>√</td>
</tr>
</tbody>
</table>

The dative is used with infinitives dependent on nouns: возможность поехать самому ‘the possibility of going alone’. It appears that the “second dative” of/embed and oğün is an idiom based on the dative in the free infinitive ([90]).

5.2.10 Summary: case usage in predicatives

The basic types of predicative constructions and the forms they prefer or allow are listed in Table 5.4. Each form has its preferred distribution, and each type of predicative construction has its own properties. Evidently there is a divide between copular constructions (both the basic copular relation be and its enrichments such as остаться ‘remain’, etc.) and constructions in which the predicative is a secondary predication, or co-predicate, overlaid on an independent predication; the latter do not allow the predicative (“short”) form of adjectives.

Nouns go into the instrumental the moment there is the slightest restriction on the state – in time (past or future tense), modality (imperative, subjunctive) – or any sense that the predicative noun describes in what capacity, qua what, the predicative relation holds. For this reason, predicative nouns used as co-predicates always go into the instrumental.

With adjectives, the instrumental is used less than with nouns, and only when there is a pronounced boundary. Adjectives present an interesting contrast between the predicative (short) form and the nominative (long) form. The layered conditions involved in the contrast between these forms (Table 5.5) relate to: the subject; the property itself; the occasions (time-worlds) on which the property holds; and the function of the predicative in context. In idealized terms, the predicative (short) form states one contingent, accidental property of a known individual, among other possible properties. It occurs in copular constructions and marginally with aspectual-modal hosts (остаться). The (long) nominative presents the subject as an entity that embodies a necessary property – an essence – unconditionally.
Table 5.5 Predicative (short) form vs. nominative (long) form

<table>
<thead>
<tr>
<th></th>
<th>predicative (“short”) form</th>
<th>nominative (“long”) form</th>
</tr>
</thead>
<tbody>
<tr>
<td>subject entity</td>
<td>defined individual</td>
<td>token of type or defined individual</td>
</tr>
<tr>
<td>property</td>
<td>manifested by degrees, opposed to other possible properties or values of the property</td>
<td>manifested in binary (either-or) fashion</td>
</tr>
<tr>
<td>time-worlds</td>
<td>accidental property, which is potentially different depending on circumstances</td>
<td>necessary property, which holds at any time, in any circumstance</td>
</tr>
<tr>
<td>speaker</td>
<td>property observable by any speaker</td>
<td>judgment of current speaker</td>
</tr>
<tr>
<td>context</td>
<td>property interacts with (conflicts with, causes, is caused by, exists despite) other states or events</td>
<td>no attention to interaction with other properties</td>
</tr>
<tr>
<td>register</td>
<td>mark of written register, less frequent in speech</td>
<td>mark of colloquial register</td>
</tr>
</tbody>
</table>

5.3 Quantifying predicates and genitive subjects

5.3.1 Basics

Russian has various constructions that involve quantification – arguments can be quantified and predicates quantify arguments. Quantifying predicates are those that measure quantity against an implicit standard: they report some as opposed to none, or none as opposed to some, or quite a bit relative to what was expected. With certain predicates, arguments that correspond to nominative subjects of intransitive verbs can appear in the genitive.

5.3.2 Clausal quantifiers and subject quantifying genitive

It will be useful to place genitive subjects in the broader context of quantifying expressions and quantifying predicates. Explicit quantifiers – from numerals such as три ‘three’, сорок ‘forty’ through approximates such as много ‘much’, сколько ‘how much’, меньше ‘less’ – participate in a network of related constructions. The more indefinite the quantifier, and the more the focus is on the quantifier, the more the verb is likely to use neuter third-person singular agreement (§5.9).

Quantifiers can combine with a noun to make an argument (§4.2). Quantifier arguments can occur in most argument positions – as subjects, as indirect
objects, as temporal adverbs, and so on. Quantifier arguments are especially frequent as the aspectual argument of existential predicates – ве in its existential sense ([92]) or prefixed perfectives reporting the accumulation of a quantity of something ([93–94]):

[92] Было много знакомых из городских жителей.
There were many acquaintances from among the inhabitants of the city.

[93] Понаблюдало много журналистов, ожидая обычных откровений.
There arrived many journalists, anticipating the usual revelations.

[94] На третьем курсе набралось всего четыре студента.
There gathered only four students for the third year.

The quantifier and noun can be separated on opposite sides of the verb, in either order:

[95] Монахов осталось всего пятеро.
Of monks there remained only a group of five.

[96] Много у нас было черных дней.
Many were our rainy days.

[97] Студентов на третьем курсе набралось всего четыре.
There gathered only four students for the third year.

A noun that is split from a paucal numeral must be genitive plural, not singular (§4.2). Another sign of the partial autonomy of noun and quantifier is that the split quantifier can itself contain a generic classifier noun:

[98] Добровольцев набралось 504 человека.
Of volunteers there gathered 504 people.

Quantifier arguments formed with comparatives or certain prepositions (distributive по, approximate до 'up to', около 'around', под 'coming up on') can be used as subjects ([99]) or objects ([100]), especially with quantifying predicates ([101]):

[99] В каждое усаживалось по двенадцать взрослых.
In each coach would sit a dozen adults.

[100] А всего 58-я статья погубила, согласно подсчетам западных историков, более двадцати миллионов невинных людей . . .
And in all Paragraph 58 caused up to 20 million innocent people to perish, according to the counts of Western historians.

[101] Набежало более двадцати этих старушек.
There gathered more than twenty of those old ladies.

Other kinds of phrases or nouns have been impressed into service as quantifiers:

People crowded the mountains full up.

Of people there gathered legions.

In this construction, a verb can be in the neuter singular, failing to reflect the etymological feminine gender of тьма-тьмусяя ‘legions’, пропасть ‘abyss’.

5.3.3 Subject quantifying genitive without quantifiers
The extreme form of quantifying constructions is that in which there is no explicit quantifier and the argument corresponding to a subject is expressed in the genitive. Bare genitives occur with verbs stating accumulation or distribution of quantities ([104–8]):

There crawled into the city of Azov all manner of people.

There arrived many journalists.

There kept being more and more people on the street.

Over the past week some snow has sprinkled down.

If the general had seen how you had been stuffed like sardines in a barrel, he would never have allowed the excursion.

Though similar to the construction with an overt quantifier, the construction with a bare genitive subject without a quantifier focuses more on the existence of the quantity beyond expectations. The subject is usually essential in reference (in [105], ‘there arrived a quantity of that which can be defined as journalists’). For this reason, the subject does not readily support grammatical operations requiring an individuated entity, such as an adverbial participle ([109], unlike [93] above with an overt quantifier) or reflexive pronouns ([110]):

There arrived many journalists, anticipating the usual revelations.

[There came many guests in their cars.]

A bare genitive subject can be used with existential be to assert a surprising quantity of a noun, in a folksy construction with a distinctive intonation (IC6) that rises sharply on the mass noun and remains high ([111–12]):

[102] Народу на горы толпилось полно.
People crowded the mountains full up.

[103] Народу {набралось<dem> / набралась<gen>} тьма-тьмусяя.
Of people there gathered legions.

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[104] Наползло всякого люде<gen> в город Азов.
There crawled into the city of Azov all manner of people.

[105] Понаехало журналистов<gen>.
There arrived many journalists.

[106] A народу<gen> на улице все прибывало.
There kept being more and more people on the street.

[107] В последнюю неделю снегу<gen> подсыпало.
Over the past week some snow has sprinkled down.

[108] Если б генерал видел, что вас<gen> тут набилось, как сельдей в бочке, он бы никак не разрешил такое ката
If the general had seen how you had been stuffed like sardines in a barrel, he would never have allowed the excursion.

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15 Polinsky 1994 ([110]).
There were many people, much laughter!

Well white ones [mushrooms] we didn’t have any of these.

Oh, there were white ones all right!

Possibly, for me there remained freedom only for a month.

Thus given quantification in the context, the subject can be expressed as a bare genitive. It is important to note, however, that the construction with the bare genitive has an idiomatic character, and is less frequent than these examples might suggest. The bare genitive is used much more with certain nouns (notably народ ‘people, folk’) than others. Even with the quantifying predicates illustrated above, it is more common to use overt quantifiers. To indulge in an anecdotal comparison with Czech: Karel Čapek’s R.U.R. at one point comments on the legions of robots, using a bare genitive with a quantifying verb: jich*gen* přibylo ‘so many have come’. Russian translations use an overt quantifier: силы небесные, сколько их! ‘heavens above, how many of them there are!’. There is a small set of quantifying predicates – хватать*gen* 'be sufficient', достать*gen* 'become available to someone', and non-verbal хватить*gen* ‘be enough’ – that regularly take the genitive.16 A dative or y*gen* can specify the domain or sphere of influence on which quantity is evaluated.

Of such trifles I’ve had enough for a lifetime.

So you’re silent? – asked her eyes. – Go ahead, don’t say anything . . . We’ll just see for how long you’ll endure.

He had no one about whom there might come any desire to wonder.

For a resourceful reader, such facts are completely sufficient to allow him to find the requisite material.

The vegetables are supposed to suffice for the whole winter.

The need for a genitive subject can be passed through a modal auxiliary (должно ‘should be’) in [118]). In a pinch, an active participle ([119]) or adverbial participle

16 Достать also has a transitive valence, with a nominative agent and accusative patient, as in Мать достала журнал ‘mother got the magazine’, and a reflexive intransitive based on the transitive, as in сапоги достались ему ‘the boots came to him’.
can be formed, showing that the genitive argument of quantifying predicates is analogous to a nominative subject:


Thus there is a network of constructions involving quantifiers, quantifying predicates (and existential be), and the genitive case. Quantifiers combine with nouns to make argument phrases used in a variety of constructions. Quantifiers themselves can predicate, and they combine and form interesting constructions. The genitive case is used for nouns that are in construction with overt quantifiers. If the predicate itself is sufficiently quantifying, the genitive can be used without there being a quantifier constituent. The genitive fulfills a role analogous to that of a nominative subject, though it is less individuated than the typical subject.

5.3.4 Existential predication and the subject genitive of negation: basic paradigm

Many predicates situate an aspectual argument in a domain, whether physical space or the perception of the speaker. In principle such predications can be interpreted in two different ways, as individuating or existential. The difference in meaning and syntactic properties is especially clear with the predicate be. (The term is convenient for the pattern, even though no form of быть is used in the present tense.)

The individuating interpretation assumes a well-defined individual, some of whose properties are known independently. The current predication concerns another property of that individual, namely location in some domain. The word order is normally S V Dom.

Chvany 1975 drew the sharp distinction between the existential use of быть and its predicative function. Babby 1980 argued that the genitive occurs when the relevant argument is included in the scope of negation, where scope is defined in terms of functional sentence perspective (modified in Babby 2001 to the claim that both subject and object genitives result when the argument is in the scope of verb-phrase negation). Guiraud-Weber 1984 examines the functional differences between genitive and nominative constructions (Я не был в Москве). Robblee (1991, 1993[a], 1993[b], 1996) posits a hierarchy of predicates from existential (and modal and quantifying) through individuating intransitives to transitives. I have relied on this latter body of work here. Paducheva (1992, 1997) establishes the limits of use of the genitive of negation, layered from regular to occasional to non-existent, as a function of predicate semantics. Ultimately the “semantic invariant” proposed for the construction with the genitive is: “X does not exist in the World/Place,” where the place can be “the perceptual space of the Subject of consciousness.” Here the exposition emphasizes the difference in structuring of information: the nominative is a statement of a property of an individual, among alternatives; the genitive is a statement about the world.
When an individuating predication is negated, nothing happens to the structure of the clause, and negation is the usual negative particle не in the present tense:

```
[122]
Маленький принц { не был, не будет } на маленькой планете.
The Little Prince { wasn’t, won’t be } on the small planet.
```

The individuating interpretation is forced if different possible locations are contrasted ([123]) or if the predicate is contrasted with another predicate sharing the same subject ([124]):

```
[123] Он был не в Москве, а в Париже.
He was not in Moscow, but in Paris.
[124] Он не был в Москве, а следил за событиями издалека.
He was not in Moscow, but still kept track of events from afar.
```

Thus, individuating predicates (including be) have ordinary syntactic properties.

In contrast, with the existential interpretation, the predicate establishes a state of the world, which is the presence or absence of some entity in a domain. The entity is often understood in essentialist terms, as the token of a type. The domain is presumed known. If no domain is actually named, it can be the world in general, or some more specific domain known in context. The word order is normally Dom V S (though see [127]).

```
[125]
На планете { были, будут } только глубоководные жители.<ном>.
On the planet there { were, will be } only deep-water inhabitants.
```

The present tense of the existential construction has either no overt form of a verb or, occasionally, the residual particle есть (§5.3.12).
When an existential predication is negated, the entity whose presence in the world is denied is expressed in the genitive.

When an existential predication is negated and the subject is expressed in the genitive, the predicate no longer agrees with any argument, and becomes “impersonal”: it appears in the neuter singular (past) or third-singular (present, future). The neutral order is Dom V S, but other orders occur: A людьи D на планете больше не будет ‘As for people, there will no longer be any’.

Some other predicates can also be used in both individuating and existential senses, for example, остаться/оставаться ‘remain’:

On the planet there remained alive only the crews of the space stations.

On the whole planet there did not remain a single person.

A domain expressed by the preposition Y<\GEN> establishes a sphere of control or influence of an animate entity.

By asserting the existence of an entity in the sphere of influence of an animate being, this construction corresponds to transitive predicates of the type of English have (on уметь, see §5.3.11). The possessive construction can be considered
a special case of existential be constructions. It has the same use of case, notably genitive when the whole situation of possession is negated.

The predicate be can function as a copula – as a linking verb – when it is combined with a predicative noun or adjective (§5.2). A predicative (or copular) construction is necessarily individuating. Its communicative force lies in asserting (or denying) that one property as opposed to another holds of a known entity; it is then a statement about an entity, rather than a statement about the world as a whole. No matter how one tries, the genitive cannot be used for the subject argument when a predicative is negated:

[131] Никто<nom> не был безразличным к судьбе.
No one was indifferent to fate.
[132] *Никого<gen> не было безразлично к судьбе.
[133] Ещё ни одна утрата<nom> не была так тяжела для него.
No prior loss was so hard for him.
[134] *Еще ни одной утраты<gen> не было так тяжело для него.18
[135] В таком городишке ничего<nom> (*ничего<gen>) не остается секретом.
In such a town nothing remains a secret.
[136] Ничего<nom> (*ничего<gen>) не {свято ~ вечно}.
Nothing is {holy ~ eternal}

Thus, constructions involving an aspectual argument and a domain expression can be interpreted as individuating or existential, and there is a significant difference in morphosyntax when the predicate is negated. Although the sense of a predication as existential or individuating is a holistic reading, how likely the existential reading is – and how likely the genitive case is under negation – depends on three considerations: (a) the predicate; (b) the reference of the nominal argument; and (c) the context of the predication.

5.3.5 Existential predication and the subject genitive of negation: predicates
It was implicit in the discussion above that be is virtually in a class by itself (perhaps to be joined by modals надо, нужно that can take an accusative or genitive even when not negated). Be would normally take the genitive when negated, even with aspectual arguments whose reference is strongly individuated (pronouns, proper nouns). After be, the quintessential existential, there is a score or so of predicates that can take the genitive of negation (Table 5.6).19 These fall into recognizable semantic subgroups. All these verbs comment on existence, but each adds something over and above merely asserting existence. With perceptuals, existence is determined relative to the field of perception of

18 Yet Trubetzkoy (1975:268) wrote, Ничего не готово ‘There is nothing ready’.
### Table 5.6 Semantic classes of existential predicates

<table>
<thead>
<tr>
<th>predicates</th>
<th>semantics</th>
</tr>
</thead>
<tbody>
<tr>
<td>оказаться ‘turn out’, обнаружиться ‘show up’, последовать ‘follow’, появиться ‘appear’, найти ‘be found’</td>
<td>inception of perception: inception of existence of state in perceptual space despite expectation of non-state</td>
</tr>
<tr>
<td>требоваться ‘be needed’</td>
<td>modality: existence of situation of necessity (obligation, possibility)</td>
</tr>
<tr>
<td>сохраняться ‘be preserved’, остаться ‘remain’</td>
<td>preservation: continued existence of state despite possibility of non-state</td>
</tr>
<tr>
<td>выйти ‘come out’, въехать ‘get produced’, образоваться ‘be formed’, прийти ‘arrive’</td>
<td>production: coming into existence of state despite possibility of non-state</td>
</tr>
</tbody>
</table>

an observer. With other verbs, what is added is a sense of change in the status of existence, from non-existence to existence. This aspectual sense of change is flavored by the modal expectation that, if it were not for unusual circumstances, the original situation of non-existence would have continued. As a general rule, a strong modal sense of expectation to the contrary inhibits the use of the genitive. The modal sense is weak with стать ‘become’ or произойти ‘occur’, stronger with попасться ‘to come on the scene suddenly, haphazardly, unexpectedly’ or with the verbs of production, e.g., въехать ‘to get produced overcoming obstacles’. Verbs of preservation (остаться ‘remain’, сохраняться ‘get preserved’) assert continuing existence despite a clear and present danger of non-existence. Оказаться ‘turn out to be’ combines emergence and perception. Thus there is a set of predicates that deal with existence but, at the same time, they are weaker assertions of existence than быть, because they keep in mind alternative possibilities.

The predicates of Table 5.6 tend to occur with common nouns that are understood in essentialist terms, as tokens of a class, and when they are negated, can use the genitive:

[137] Она искала, не осталось ли ягод<sub>GEN</sub>.

She verified whether there did not remain berries.
All valuable animals had been frightened off, almost no sables remained.

Individuated arguments (pronouns, proper nouns) are unlikely to be used with these predicates, and unlikely to appear in the genitive,\textsuperscript{20} except for the perceptuals ([139]) and 	extit{ставть}, in an idiomatic sense ([140]):

\textsuperscript{139} Вани \{не видно $\sim$ не оказалось $\sim$ не осталось\} на улице.

Vania \{was not to be seen $\sim$ didn’t turn up $\sim$ did not remain\} on the street.

\textsuperscript{140} Вани не стало.

Vania is no more [has died].

With predicates other than those of Table 5.6, an existential reading (and the genitive of negation) are unusual, although examples, often constructed, are cited in the linguistic literature. With verbs of position, the genitive is used with time expressions or with an emphatic operator: не прошло и двух часов ‘not even two hours passed’; на гетто не пало и тени подозрения ‘not a hint of suspicion fell on the ghetto’; ни одной бомбы не упало ‘there did not fall a single bomb’. With verbs that specify something about the manner of position, the genitive is labored: на заборах не выискал мальчик ‘on the fence there did not hang any lads’; между брёвнами не считалось прусаков ‘among the logs skittered no roaches’ (Gogol). With \textit{phenomenological} verbs – verbs reporting phenomena that can be perceived – the genitive is conceivable in an exercise of modifying lines of poetry: свечи на столе не горело ‘there did not burn a candle on the table’; не белеет парусов на горизонте ‘there do not show white any sails on the horizon’.\textsuperscript{21}

In practice the genitive with negated positional or phenomenological verbs is very infrequent. In one count only four examples were found among 198 tokens of negated verbs of position and motion, and no examples of genitive with negated phenomenological verbs (130 tokens) or negated activity verbs. By way of contrast, for the verbs listed in Table 5.6, the percentage of genitive was in the vicinity of two-thirds genitive under negation.\textsuperscript{22}

The likelihood of using the genitive, then, depends in part on the semantics of the predicate. The genitive can be used most freely with verbs that report existence in a domain, where the fact of existence is the communicative force of the predicate. It is less likely with verbs that describe the manner of the activity, since attention to manner presupposes the existence and identity of the individual.

\textsuperscript{20} Paducheva 1997. \textsuperscript{21} Paducheva 1997. \textsuperscript{22} Robblee 1993[a]:222.
5.3.6 Existential predication and the subject genitive of negation: reference

In addition to predicate semantics, the naturalness or likelihood of using the genitive depends on the reference of the argument.

Pronouns, proper nouns, and singular nouns as a rule refer to individuated, animate entities, and discourse is often organized around such entities rather than generalized states of the world. Statistically, pronouns are less likely to be put in the genitive even with \textit{be}. One study documents a hierarchy of increasing likelihood of using the nominative with negated \textit{be} as one moves away from common nouns (only one nominative in 595 tokens, or more than 99% genitive) through third-person pronouns and proper nouns (84% genitive) to first- and second-person pronouns (only 59% genitive).\textsuperscript{23}

With common nouns, the use of case correlates with the sense of the nominal in context. Nouns with individuated reference, such as the sounds of jazz in [141], appear in the nominative. Nouns with essential reference – in [142], ‘anything that would qualify as sounds’ – are genitive, and the predicate has impersonal syntax.

\[141\] Вдоль тротуаров стояли негусто запаркованные автомобили. Сюда не доносились звуки \textit{<nom> джаза}.

Along the sidewalks cars were parked here and there. The sounds of jazz did not carry here.

\[142\] Из палаты Маэстро звуков \textit{<gen>} не доносилось.

From the Maestro’s tent no sounds carried.

For a given predicate, the existential reading will be more natural if the noun is affected by emphatic operators such as \textit{ни} ‘not even’, \textit{и} ‘even’, \textit{никакой} ‘no such’. With a perceptual predicate, the genitive is regular if negation is emphatic ([143]), but the nominative is normal with a bare noun ([144]):

\[143\] Никаких сдвигов \textit{<gen>} незаметно.\textsuperscript{24}

No advances whatsoever are noticeable.

\[144\] Незаметны сдвиги \textit{<nom>}.

Advances are not noticeable.

Emphatic operators make a genitive possible with verbs that would normally not take the genitive. The genitive is unlikely in \textit{не уцелело нашего фундамента} \textit{<gen>} or \textit{не прозвучало выстрела} \textit{<gen>}, but possible in [145–46]:

\[145\] От нашей хибары в Новороссийске не уцелело \textit{и} фундамента \textit{<gen>}.

From our hut in Novorossiisk there did not survive even the foundation.

\[146\] Не прозвучало \textit{ни} выстрела \textit{<gen>}.

There did not sound even a single shot.

\textsuperscript{23} Robblee 1996. \textsuperscript{24} Paducheva 1997, [143], [144].
With emphatic operators, the speaker imagines and ranks possible entities that might fit in the positive predication, but then categorically eliminates all of the possibilities.

5.3.7 Existential predication and the subject genitive of negation: никого, ничего
The negated pronouns никого ‘no one’ and especially ничего ‘nothing’ can be used with a much broader range of predicates than other argument expressions. With moderate existentials such as остаться/оставаться, both the nominative никто and the genitive никого occur. The genitive никого reports complete and utter absence of any members of an open class ([147]). In [148], the class is delimited, and we entertain the counterfactual possibility that one of this class might have remained alive.

[147] Все наши расстреляны, никого не осталось в живых.
All our people were shot, no one has remained alive.

[148] Никто из них не остался в живых, и подробностей этого разговора я сообщить не могу.
Not one among them remained alive, and details of that conversation I cannot report.

Ничего occurs widely. It is used regularly with: moderate existential predicates:

[149] Оказывается, что ничего не произошло, конец света не наступил.
It turns out that nothing happened, the world did not come to an end.

With reflexive predicates related to transitives:

[150] Ничего больше не выяснилось.
Nothing further was clarified.

[151] Почти ничего с детства не запомнилось.
Almost nothing from childhood stayed in memory.

[152] Ничего не изменится.
Nothing will change.

With many intransitives ([153-55]) and semi-transitives ([156-57]) that otherwise would not take a genitive subject:

[153] Ничего не болит.
There is nothing hurting.

– Yes, – agreed Sarah. – It’s just that there is nothing thundering and exploding.

Almost nothing burned.

Nothing threatened those who were in the convoy any longer.

Nothing helps.

Ничего can even be used with certain transitives, those that express a relation:

Его ничего не {интересует ~ удивляет}.
There is nothing that {interests ~ surprises} him.

Ничего не остановило бы, даже дети.
Nothing would stop [her], not even the children.

Nothing united us.

The genitive is not used with more agentive intransitives ([162]) or transitives ([163]):

Ничто<ном> (*ничего<ген>) с вьюгой не соперничало.
Nothing engaged in competition with the blizzard.

Ничто<ном> (*ничего<ген>) не нарушало покоя.
Nothing disturbed the peace.

Ничего is possible with some non-verbal predicates that are perceptuals or experientials, predicates that look almost like predicative adjectives:

After my mother's death, there is nothing terrifying to me.

About Turgenev's stay in the pension almost nothing is known.

Nothing was comprehensible to him.

Nothing could be otherwise.

Ничего is not used with unambiguous predicatives, as in [131–36] above.

5.3.8 Existential predication and the subject genitive of negation: predicates and reference

Usage can be stated as a cline (Table 5.7) ranging from genitive to nominative, with an area of variation in the middle. Two hierarchies are reflected: one based on reference of the aspectual argument (in the order from likely to use genitive
Table 5.7 Predicate hierarchy and case under negation

<table>
<thead>
<tr>
<th>type of predicate</th>
<th>emphatic operator</th>
<th>essential reference</th>
<th>individuated reference</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>бe</em></td>
<td>G</td>
<td>N</td>
<td>G</td>
</tr>
<tr>
<td>perceptual: <em>а́́йнo<code> be visible</code></em></td>
<td>G</td>
<td>N</td>
<td>G</td>
</tr>
<tr>
<td>weak existential: *остá́ться<code> remain</code>, <em>а́йнo<code> </code>come out`</em></td>
<td>G</td>
<td>N</td>
<td>G</td>
</tr>
<tr>
<td>intransitive position/motion: *стоя́ть<code> 'stand', *со́йтo</code> 'go through' *</td>
<td>G</td>
<td>N</td>
<td>?G</td>
</tr>
<tr>
<td>phenomenological: *краснéть<code> 'turn red', *сгорéть</code> 'burn' *</td>
<td>?G</td>
<td>N</td>
<td>?G</td>
</tr>
<tr>
<td>semi-transitive: *помогáть` 'help' *</td>
<td>G</td>
<td>N</td>
<td>G</td>
</tr>
<tr>
<td>relational transitive: *интересовáть` 'interest' *</td>
<td>G</td>
<td>N</td>
<td>G</td>
</tr>
<tr>
<td>affective transitive: *нарушу́ть` 'disturb' *</td>
<td>G</td>
<td>N</td>
<td>G</td>
</tr>
<tr>
<td>predicative: *бóть секréтом` 'be a secret' *</td>
<td>G</td>
<td>N</td>
<td>G</td>
</tr>
</tbody>
</table>

± = acceptable, not preferred
? = acceptable but restricted
* = (nearly) impossible

shading = context of variation

to avoiding genitive): *ничéго ≥ никакó ≥ emphatically negated argument ≥ plural ≥ singular abstract ≥ singular inanimate count ≥ animate ≥ pronoun, and another a hierarchy of predicate semantics.

5.3.9 Existential predication and the subject genitive of negation: context

When a given combination of predicate and argument can in principle use both constructions – nominative (and agreement) or genitive (with no agreement) – the choice is determined by (or imputes) additional semantic nuances or discourse considerations. The aspectual and modal quality of the predication is relevant. Although *bé* itself does not distinguish aspect, *bé* can be used with different aspectual senses, such as momentary state, inception of a state, or endurance of a state over time.

The genitive is usual in statements about the world at a punctual time ([168]).

[168] Братá <GEN> {утро́ в три часа́} не было дома.
Brother wasn’t home {in the morning ~ at three o’clock}.

26 Observation of Itskovich 1974.
310  A Reference Grammar of Russian

[169] Брат.~nom~ не был дома.
Brother hasn't been home.

In contrast, a durative context ([169]) is a statement about an individual, who is subject to expectations about his behavior: in [169], the person "did not come when he should have done so, or when it was natural for him to come."27 The nominative is usual. Similarly, the speaker’s presence was expected in [170]:

[170] Я.~nom~ не был на его похоронах.
I did not attend his funeral.

Thus, in a negated sentence it is possible to use the nominative if the non-presence of the entity – a person was not at home, not at the funeral – is implicitly contrasted with the positive alternative – a person should have been home, might well have been at the funeral.

Modality is relevant with weaker existential verbs.28 In [171], with genitive, there is no evidence of anything deserving of the name sound.

[171] Звуков.~gen~ не доносилось.
Sounds from the street did not carry in.

[172] Звуки.~nom~ не доносились сквозь двойные рамы.
Sounds from the street did not carry through the doubled frames.

In [172], by adding the restriction сквозь двойные рамы, the speaker contrasts two alternative histories: sound does not carry under these conditions, but might be expected to otherwise. Example [172] is, then, about this contrast, not a simple denial of existence (as in [171]). Similarly, in [173], there is no evidence of Masha at all:

[173] Маши.~gen~ не видно.
There is no sign of Masha.

[174] Маша.~nom~ не видна.
Masha isn’t visible.

Example [174] communicates a property of Masha: speaking of Masha, the property that characterizes her is a lack of visibility at the moment, though she could otherwise be visible. Masha is then much like the River Don in [175], which can be discussed despite its lack of visibility:

[175] Сам Дон.~nom~ не виден, он за полосой леса, протянувшегося по его берегу.
The Don itself is not visible [from here, under these circumstances, but only because] it is beyond the strip of forest extending along its banks.

Case also relates to the function of the sentence in the discourse. The genitive is appropriate when the topic is the whole world ([176]):

[176] {Их долго не было ~ Они долго не были}, потом совсем близко раздалось несколько выстрелов, и Кольцев вернулся, неся на плечах одного из бойцов.
There was no sign of them for a long time, then right near there rang out several shots, and Koltsev returned, carrying on his shoulders one of the soldiers.

[177] {Он долго не был в России, и естественно, не знаком с нашей действительностью.}
He had not been in Russia for a long time, and naturally is not familiar with our reality.

With the nominative, the world is viewed in terms of the individual. In [177], the fact that he was absent explains another fact, his lack of knowledge.

5.3.10 Existential predication and the subject genitive of negation: summary
In summary: Certain predicates discuss the presence of an entity in a domain, which can be physical space or a speaker's perceptual field. In principle such combinations can be interpreted in two different ways: as a statement about an individual or as a statement about the world and its contents. In the former case, interest is focused on the individual, who is otherwise known, and on the properties of that individual. In the latter case, the communicative force of the sentence is merely to establish or deny the presence of some entity in some domain, the entity often being understood as an essence. When such predicates of location are negated, the entity whose existence is negated appears in the genitive. The choice between an individuating and an existential interpretation and, therefore, the use of the genitive under negation, depends on (a) the semantics of the predicate; (b) the reference of the entity, whether individuated or essentialist or emphatically essentialist (ни одного, ничего); (c) the modal and aspectual sense of the predicate in context – consideration of alternative realities undermines the existential reading; (d) the function of the proposition in context, whether the predicate informs merely of the polarity of existence (genitive) or the location as a property of the individual (nominative).

5.3.11 Иметь and existential possessive constructions
The existential construction with a domain expressed by the preposition $y_\text{gen}$ is the usual way of asserting or denying possession of concrete nouns. Russian also has a transitive verb иметь, used especially in idioms in which the noun is an abstract noun ([178]):

The idioms can be expanded by adjectives (иметь большой успех 'have great success') or conjoined (иметь счастье и наслаждение 'good fortune and pleasure'). Negated, иметь takes the genitive: к водке увлечения он не имел 'he had no interest in vodka'.

Even with concrete nouns whose possession would ordinarily be expressed by у, иметь can be used if possession is viewed as a property of the subject. Thus, иметь is appropriate if possession is one of a series of properties of the subject:

(Usually: У нее не было наследников.) Имьеть defines individuals:

(Usually: У меня была квартира 'I had an apartment'.) Имьеть must be used when the possessor is the implicit subject of a participle or infinitive:

(Usually У него было трое детей 'He had three children'; У нее заработок крохотный 'She has a modest income'.) Thus иметь insists that possession is a property of the subject. 

Имьеть has a related reflexive form имьеться, used as a more explicit and bureaucratic equivalent of existential быть.

(Usually У себя дома.) Имьеть boasts about oneself:

There {was ~ was not} a party organizer at Gavriloopoliansk.
5.3.12 *Есть* and existential possessive constructions

Russian, it is said, has no verb ‘to be’ in the present tense, and it is true that it does not use a conjugated verb in the present tense of either predicative or existential sentences.\(^30\) Still, *есть*, the etymological third-person singular present of *быть*, is sometimes used in existential and possessive sentences. *Есть* is appropriate when the import of the utterance is whether or not any token of a type exists at all. *Есть* is omitted when it is already presumed that something from a general type exists, and the communicative concern is with the existence of one particular variety of the type. There are recognizable contexts in which usage is predictable.

*Есть* is normally omitted in the following contexts. When a sentence describes the body parts of an individual – hair, nose, legs – the body parts are assumed to exist; the sentence differentiates one subtype from others. Such descriptions lack *есть*:

\[184\] У Лиды более красивое лицо, чем у Тони.
Lida has a prettier face than Tonya.

\[185\] У него морская походка.
He has a seaman’s walk.

\[186\] У него серые волосы.
He has gray hair.

Identifying a disease or condition that afflicts the possessor presupposes that there is some sort of medical or psychological condition to begin with. *Есть* is not used.

\[187\] На следующий день врач определил, что у нее молниеносная сарcoma.
The next day the doctor determined that she had acute sarcoma.

\[188\] В том, что у них роман, я не сомневаюсь.
That they have a romance going on I have no doubts.

\[189\] В комнате страшный шум.
There is a horrible din in the room.

When a noun is modified by a superlative adjective, the communicative concern is with selecting the proper individual from a set of entities, namely the individual manifesting the greatest degree of the property; the set, such as a set of rooms ([190]), is presumed to exist:

\[190\] D нёгтм, хнл е йд[198]хфт, цм т цйгдцм/см.

She has the best room.

Quantifying the noun generally means presupposing the existence of some tokens of this type of entity, and the communicative concern is with the quantity (small, large, etc.):

I want to pay for the ticket; I have 85 kopecks.

Mentioning a body part along with the possessor presupposes a scenario in which different objects might be located in different sub-locations at various times, hence *есть*:

In his right hand he has a bouquet.

Descriptions of garments and outfits lack *есть*:

Valia will come for a short time. She’s got a snowflake costume from the costume shop where they sew things for performers.

*есть* is not used in all these contexts, in which a token of a type is presupposed to exist, and the predicate asserts which subtype of entity is possessed.

In contrast, *есть* is used when no tokens of a type are presumed to exist, and the sentence is concerned with establishing the existence of a token of a type in some domain as opposed to its possible non-existence. The fact of existence is presented as if unrestricted in time or condition. *есть* is common when a geographical location, with its contents, is described:

On the square there are old trees.

*есть* is used with adjectives and *чтобы*; the question is whether any of some abstract essence is present at all:

I think that in Lida there is something mysterious.

*есть* is commonly used in negotiations that verify whether something exists at all,

Are you going to your dacha today?

Today or tomorrow, sometime in the morning.

You have a plot there, yes?
or in conditions, when the condition hinges on whether something exists,

[197] У нас в гимназии звонят родителям, если у них есть телефон. А если нет, . . .  
At our school they telephone the parents, if they have a telephone. And if not, . . .  
[198] Иногда . . . да нет, иногда можно и купить. Если что-то подходит, если есть деньги.  
Sometimes . . . Well yes, sometimes I do buy something. If there’s something suitable, if I have any money.

or in contexts in which existence is emphatically asserted:

[199] Нет, у него нету машины.  
No, he doesn’t have a car.  
И: Ниуша сказала, что есть у них теперь машина. Бабушка отдала им старый фольксваген.  
Niusha said that they now have a car. Grandma gave them an old VW.  
[200] Катя купила мне Робинзона Крузо. У меня есть Робинзон, но я сделала вид, что не имею ни малейшего понятия об этой книжке.  
Katia bought me Robinson Crusoe. I already have Robinson, but I pretended that I didn’t have the slightest idea about this book.

Êсть is commonly used with у ‘even’, только ‘only’, всë-таки ‘even so’, ещё ‘even more’, даже ‘even’, другой ‘another’, operators which focus on the positive polarity of possession:

[201] У нее есть другое шелковое платье, его она носит по субботам.  
She has another silk dress, she wears it on Saturdays.  
[202] У нее есть даже несколько белых воротничков.  
She even has several white collars.  
[203] У меня тоже есть юмор.  
I also have a sense of humor.  

Although there are many contexts in which the use of Êсть is predictable, there are others in which Êсть may or may not be used. A familiar and straightforward contrast is:31

[204] У него стариная мебель.  
He has antique furniture [= the furniture he has is antique].  
[205] У него есть стариная мебель.  
He has [at least some] antique furniture.

31 Isačenko 1974:57.
Èсть is used when the context deals with the state of the world, when the speaker paints a picture in which the possession of some entity is in some relation to other states of the world - a relation of cause and effect, of principle and illustration, or of overlapping states.

[206] Библиотекари встретили меня с восторгом. Книги мои у них есть, ребята читают их.
The librarians greeted me ecstatically. They have my books, children read them.

In [206], the relation is causal: the provincial library has the books, therefore children read them. In [207], having a notebook with a French title is a de rigueur consequence of taking music lessons:

[207] Но ходить на уроки полагается, и у меня, конечно, есть нотная папка, где по-французски написано «музыка».
But it’s expected that I go to music lessons, and of course, I have a folder for sheet music, on which is written in French, “musique.”

Thus in context, èсть establishes the existence of something, in the face of possible non-existence, where the existence of that entity affects other states of the world. In contrast, èсть is omitted if the sentence is used to characterize the possessor rather than to establish the polarity of existence:

[208] Бабушка красавица, но скучная. У нее ключи от кассы.
Grandmother is a beauty, but she is stingy. She has the keys to the moneybox.

[209] У него другая специальность: он начинает декламировать очень длинные стихи, и учитель готов поставить ему любую отметку, лишь бы он замолчал.
He has another specialty: he starts declaiming a long poem, and the teacher is ready to give him any grade if only he will shut up.

Thus [208] describes the possessor (her possession of keys goes along with her other character traits), while [209] explicates where the boy’s true talent lay.

5.4 Quantified (genitive) objects

5.4.1 Basics
The genitive can be used instead of the accusative for the object argument of transitive predicates under one of the following conditions: (a) individual verbs govern the genitive, now usually alongside the accusative; (b) the genitive can be used in place of the accusative in a partitive, of metric, meaning; and (c) the genitive is still frequently used in place of the accusative object of transitive verbs that are negated. These contexts are different enough from each other to merit separate discussion. Still, there are similarities. The genitive presents the
situation more as a state of the world than as a property of a specific entity. At the level of the argument, the genitive is used for nouns that are essentialist rather than individuated in reference (‘this is a token of the kind of thing defined as . . .’).

5.4.2 Governed genitive
The genitive has long been used for the objects of certain verbs (Table 5.8).32 Verbs that can take the genitive at all present a scenario in which the object is potentially affected by the subject, but the potential effect (or the potential contact between the two entities) is less than complete: contact is only potential, not actual; or the contact is attenuated because non-contact was a real possibility; or contact is avoided.

The verbs of Table 5.8 all used to take the genitive regularly, but over the course of the twentieth century it became increasingly possible to use the accusative. Among the common verbs, the genitive is still usual with the highly modal требовать (over 90%), but now infrequent with искать (less than 30% genitive), with ждать ‘wait’ intermediate. The accusative has made such progress with these verbs that RG 1980 recognized the accusative as a stylistically neutral option in two contexts: with nouns referring to persons (in the singular of Declension II or Declension III – otherwise the animate accusative would be invoked), as in [210], and with nouns referring to known entities, as in [211]:

[210] Я пошел искать свою мать.< ACC >.
I set off to look for my mother.

[211] Ему нужна одна книга, которая у нас есть. Я пошел искать книгу.< ACC >.
He needed a certain book that we had. I went to look for the book.

32 Matthews 1997.
In fact, the accusative is used more broadly with искать and ждать. The accusative can be used for non-individuated objects if the eventual result is envisioned ([212–13]):

[212] Отец ежедневно уходил искать квартиру. 
Every day father would go out to search for an apartment.

[213] Она послала телеграмму, стала ждать ответное письмо.
She sent a telegram and began to wait for the letter of reply.

The accusative is used for repeated activities, each of which is successful,

[214] Каждый день я отправлялся на лыжах то в одну сторону, то в другую, искал делинки, где густо росли сосны и пихты, потом вел туда лесорубов и намечал дороги для вывозки бревен.
Every day I set out on skis in one direction or another, and located dense stands of pine and fir, then I brought the lumberjacks there and marked out roads for taking out the logs.

Or for an activity that is confined to a delimited interval of time:

[215] Объск продолжался до рассвета. Поднимали половини, искали оружие, читали письма, опять искали, ничего не находили.
The search lasted until dawn. They lifted up the floorboards, they searched for guns, they read letters, they searched some more, they found nothing.

The generalization is that the accusative is used when the event is bounded.
In contrast, the genitive is used when the event is not limited. In [216], the speaker engages in the activity of waiting while, concurrently, observing another activity; [217] reports an open-ended process.

[216] Я ждал на вокзале поезда с билетом в кармане и наблюдал, как два носильщика вылавливали в толпе подозрительных и вели их за ту маленькую дверку.
I waited at the station for a train with a ticket in my pocket and observed how two porters would pick out suspicious types from the crowd and lead them behind that small door.

[217] Он подал апелляцию в ЦКК и терпеливо ждал решения своей судьбы.
He had put in an appeal to the Central Committee and was waiting patiently for the resolution of his fate.

In both [216–17], the object is defined in essentialist terms: ‘that which would be a train’, ‘that which would be the resolution of his fate’. This context – open-ended activity, essentialist reference of the argument – is the last refuge of the governed genitive.
Unpaired reflexive verbs (бо́йт’ся ‘fear’, etc.) still take the genitive, but have begun to allow the accusative in the colloquial register with objects naming unique individuals:33

[218] Тарака́ны не бо́я́лись дядю Ва́сю.  
The roaches did not fear Uncle Vasia.

5.4.3 Partitive and metric genitive
The genitive case can be used for the object in what is often termed a partitive sense. The partitive sense presupposes a mass that is homogeneous (any portion is equivalent to any other), the total quantity of which is open-ended (there is always more where that came from). In the partitive usage, this formless mass is given shape: as a result of a bounded event, an unspecified but delimited quantity is created. In [219],

[219] — Постой, соуса вь́зьми, — сказал он, удерживая руку Левина, который отталкивал от себя соус.
   — Левин покорно положил себе соус, но не дал есть Степану Аркадичу.
— Hold on, take some sauce, — he said, restraining Levin’s hand, who had been pushing the sauce away.
   — Levin obediently took some sauce, but wouldn’t let Stepan Arkadich eat.

Levin responds to a request to create some delimited quantity of sauce (twice genitive), but manipulates the whole quantity of sauce (accusative).

The possibility of using a partitive genitive depends on the noun, on the verb, and on the context. The partitive genitive is most likely with nouns that refer to undifferentiated masses, especially comestibles. It is less frequent, but possible, with plural nouns ([220]).

[220] Он купил папирос и пошёл назад к мосткам.
   He bought cigarettes and went back to the platform.

The partitive is most natural with those predicates that report a situation in which the act itself creates a quantity, as happens with interpersonal, domestic acts of transfer (purchasing, serving, or giving), consumption, or accumulation (Table 5.9).

Using the genitive in its partitive sense depends in part on the aspectual-modal quality of the situation. Because the quantity is created by the event, the partitive sense is most natural in contexts in which completion of an action has occurred or is anticipated – a perfective imperative (recall [219]), a past perfective ([221]), or a purpose clause or infinitive ([222]):

33 Butorin 1966.
Table 5.9 Predicates taking partitive and metric genitive

<table>
<thead>
<tr>
<th>verbs of</th>
<th>examples</th>
<th>typical objects</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Transfer</strong>: quantity defined by moving some quantity away from source location to new location</td>
<td><code>да́ть/дава́ть</code> ‘give’, <code>ку́пать/покупа́ть</code> ‘buy’, <code>пра́слать/присыла́ть</code> ‘send’, <code>возы́ти/брать</code> ‘take’ [rare], <code>заня́ть/занима́ть</code> ‘borrow’ [rare]</td>
<td>domestic products, money</td>
</tr>
<tr>
<td><strong>Consumption</strong>: quantity defined by act of consumption</td>
<td><code>съесть/съедать</code> ‘eat up’, <code>глотну́ть/глотать</code> ‘swallow’, <code>выпить/выпивать</code> ‘drink up’</td>
<td>liquids, foodstuffs</td>
</tr>
<tr>
<td><strong>Accumulation</strong>: quantity defined by act of accumulation, especially increase over prior amount</td>
<td><code>набра́ть/набирать</code> ‘gather’, <code>налити́/наливать</code> ‘pour’, <code>прибави́ть/прибавля́ть</code> ‘add’</td>
<td>liquids; particulate mass; abstracts (in idioms)</td>
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</tbody>
</table>

[221] Грешница, я дала <pf pst> ей свое пальто и денег <gen>, на дорогу до Москвы, куда она поехала хлопотать о восстановлении.
Sinner that I am, I gave her my coat and money for the trip to Moscow, where she was going to see about her rehabilitation.

[222] Ни одного дня не провел он в праздники, совсем забыл музыку, рассылив по всем губерниям письма с просьбой присла́ть <pf inf> семен <gen>, и саженец <gen>, еще камня <gen>, еще лесу <gen> 2, ругаясь с подрядчиком.
He didn’t spend a single day in idleness, completely forgot music, sending out letters to every province asking them to send additional seeds and seedlings, stone, and lumber, cursing at the contractor.

The genitive is not used as partitive for imperfective actions in progress, as in она как раз наливала мне {чай <acc> / *чая <gen>} ‘she was just pouring out some tea’, inasmuch as the quantity becomes defined only as a result of a finished action.\(^{34}\) The partitive is not used with imperfectives reporting generalized activities:

[223] Музей стал создаваться лет тринадцать назад, когда туризм начал давать деньги <acc>.
The museum was founded about thirteen years ago, when tourism began to produce money.

The partitive genitive can be used with imperfectives that report a series of separate events, each of which is completed; in [224], he was given a quantity of money on each visit:

\(^{34}\) Russell 1986.
I loved those trips, as a guest I got treats, and furthermore, grandma used to give me money so that I could buy tickets from the tram conductor.

Declension has an alternate ending in the genitive singular, {-u} instead of {-a}. This “second genitive” (GEN2) is most usual in the partitive function (§5.5). Archaisically in folk texts, the partitive genitive could be used if the time was understood as partitive – as a delimited quantity – even if the object itself was a concrete object:35

Give me your knife [for a moment]!

Related to the partitive genitive is what might be termed the metric genitive, the use of the genitive for the object of verbs that measure the quantity of the affected entity against some implicit standard of sufficiency. The prefix ha- derives verbs that do this. They normally govern the genitive ([226]), except when the object is headed by a quantifier or a noun that itself is a measure ([227]):

I did a lot of stupid things.

I did {many ∼ a pile of} dumb things.

5.4.4 Object genitive of negation

Objects of negated transitive verbs regularly appear in the genitive, although the accusative is not infrequent.36 In memoiristic prose written by mature writers in the 1960s through the 1990s, the genitive was used in about two-thirds to three-quarters of all instances.

Among the various factors or contexts, one can distinguish (a) those relating to the force of negation; (b) the temporal-aspectual-modal qualities of the predicate in context; and (c) properties of the argument itself.

36 Timberlake 1975 lists factors that favor or retard the use of the genitive of negation. Following the statistical work of Mustajoki 1985, Ueda 1992 documents a dozen factors that have statistically meaningful effects (individuation, aspectuality-modality, etc.). Some factors mentioned earlier in the literature are apparently illusory: imperatives; exclamatives; word order in which the object precedes the verb. Percentages here are taken from Ueda 1992, the conceptual framework from Ueda 1993. Certainly the object genitive of negation must be related to the subject genitive of negation (Babby 2001); the genitive of negation, and more broadly, the use of the genitive with quantifying predicates applies to the aspectual argument. Though the subject and object phenomena are related, each “rule” has its own characteristics and requires its own description.
**Force of negation:** The genitive is used with a negated verb only if the force of negation extends over the predicate and its object. The accusative is used if any of the following hold. The specific predicate is conjoined or contrasted with another predicate:

[228] Создают форму социализма, когда не наказывали, а поощряли инициативу.<acc>

A form of socialism is being created, when initiative was not punished, but encouraged.

[229] Я искала и не находила его «Опавшие листья».<acc>

I looked for but did not find his “Fallen Leaves.”

Or the negation is applied to the object, which is contrasted with another object:

[230] Немцы не такие города.<acc> берут.

It is not such cities that the Germans capture.

The negative particle with the verb applies to some of the entities in the class but not all. In [231], it is specifically the serious decisions that were not changed, leaving open the possibility that the less weighty decisions might be changed:

[231] Свои серьёзные решения.<acc> он никогда не менял.

His serious decisions he never changed.

Negation is weakened in phrases such as ‘чуть не ‘almost', покá не ‘only for so long as', eagá не ‘almost', which presuppose that the event might occur (three-quarters accusative):

[232] В Хахалы я чуть не купил лодку.<acc>, задумал в одиночку за двое суток спуститься по Керченцу до самой Волги.

In the village of Khakhaly, I almost bought a boat; I had thought I might take a two-day trip by myself down the Kerzhenets to the Volga itself.

Negative questions, which open up the possibility that the positive state of affairs holds, prefer the accusative ([233]); rhetorical questions are especially likely to use the accusative ([234]):

[233] Ты не знаешь эту семейку.<acc>?

You don’t know that family?

[234] Джек Потрошитель! Кто не помнит это страшное имя.<acc>!

Jack the Ripper! Who does not remember that horrible name!

Thus, any semantic operation that undermines the force of negation elicits the accusative. At the opposite extreme is emphatic negation with ни. Emphatic negation in effect says to the addressee, even though you might think that the polarity would be positive for at least some element in this class, in fact for
every one you imagine, the polarity of the predicate is still negative. With \( nu \),
the genitive is used almost exclusively (95%). \( Hu \) is so strong that it even imposes
the genitive on nouns referring to unique animates ([235]).

[235] Во все те зимние дни я не помню ни папы, ни Лёры.
Throughout all those winter days I remember neither Papa nor Laura.

**Predicate aspectuality-modality:** The accusative tends to be used when, in con-
text, the positive version of a given situation is expected.\(^{37}\) In [236], the speaker
admits to the absence of a memory that she should have, given that her sister
does recall it.

[236] Жалею, что не помню упомянутый Мариной поднос, нами
преподнесенный папе.
I regret that I can’t recall the tray which we had presented to Papa that Marina
mentioned.

Counterfactual constructions undermine the force of negation by juxtaposing
two worlds in which the predicate history has the opposite polarity. The ac-
cusative is used regularly in counterfactuals (65% of the time, as opposed to 34%
among other constructions).

[237] Он стал бы замечательным актером, если бы не предпочел профессию, нами
юриста.
He could have become a remarkable actor, had he not preferred the legal
profession.

Thus when the alternative, positive state of affairs is in view, the accusative
is likely to be used. In contrast, the genitive is used when alternatives are pre-
cluded. Participles presuppose the truth of the situation they report, without
opening the door to alternatives. Negated, they often use the genitive:

[238] Не играя этой роли более 12 лет, Елена Митрофанова согласилась
сыграть спектакль “Волки и овцы”.
Not having played the role for more than 12 years, Elena Mitrofanovna
nevertheless agreed to do the play “Wolves and Sheep.”

Aspect exercises at least a statistical influence on the choice of case. Perfective
aspect of the verb encourages the use of the accusative (43% accusative with per-
fectives vs. 29% accusative with imperfectives). With a perfective, the accusative
focuses on the failure of the event at the past time when the event might have been expected to occur:

\(^{37}\) Keil 1970.
Because I was in a hurry, I did not remove my makeup and did not change clothes.

The genitive, when it is used with a perfective verb, focuses on the continuing negative existence that results from a failed event.

It was only then that Masha recalled that she had not removed her coat and beret.

**Individuating vs. existential predicates:** Although the distinction between existential and individuating predicates is most evident with be and intransitive predicates, there is a comparable distinction among transitives. The extreme cases are the following. Иметь is a transitive existential, and it usually interprets its object, often idiomatic abstract nouns like \{права ~ гёла ~ отношения\}, as essential in reference – in [241], ‘that which would qualify as a token of navy-jacket-ness’:

> Я не имел матроски.

I did not have a navy jacket.

Negated, иметь takes the genitive almost obligatorily, over 95 percent of the time. Predicates that report perception or cognition (видеть 'see', знать 'know') are weakly existential, in that they report the presence of something in a person’s cognitive space. They are more likely to use the genitive than other verbs (85% genitive, as opposed to 60% with other verbs).

At the opposite extreme, predicates like считать кого-либо кем 'consider someone as someone (something)', называть/называть 'call', назначить/назначать 'appoint, designate' are in effect transitive copular predicates. Like other predicatives, they presume the existence and individuation of the entity. If negated, they use the accusative.

> Теперь мы уже больше не считаем наши просторы бесконечными, а наши богатства неисчерпаемыми.

Now we no longer consider our expanses endless, or our riches inexhaustible.

These verbs do use the genitive in senses other than the predicative: если не считать единственного образца стекла 'if one does not count the lone example of this glass'.

**Argument individuation:** Arguments that are individuated in reference are more likely to occur in the accusative, while arguments with essential reference prefer the genitive. At this point it will be useful to refer to a small sample of fifty-one examples of the context не помню ‘I don’t recall’ in one memoir
Table 5.10 Genitive of negation/не помню

<table>
<thead>
<tr>
<th></th>
<th>ACC</th>
<th>GEN</th>
<th>% GEN</th>
</tr>
</thead>
<tbody>
<tr>
<td>animate (proper), without ну</td>
<td>3</td>
<td>2</td>
<td>40</td>
</tr>
<tr>
<td>singular concrete</td>
<td>5</td>
<td>12</td>
<td>71</td>
</tr>
<tr>
<td>singular abstract</td>
<td>0</td>
<td>7</td>
<td>100</td>
</tr>
<tr>
<td>plural</td>
<td>0</td>
<td>11</td>
<td>100</td>
</tr>
<tr>
<td>ну</td>
<td>0</td>
<td>11</td>
<td>100</td>
</tr>
<tr>
<td>total</td>
<td>8</td>
<td>43</td>
<td>84</td>
</tr>
</tbody>
</table>

(Table 5.10). Since the verb – a transitive existential – is held constant, case depends primarily on the referential properties of the argument.38

Proper nouns and common nouns referring to unique animate beings are likely to use the accusative (around 90%, as opposed to 30% for common inanimate). In the sample corpus, three of five tokens of animate objects (without ну) are accusative:

[243] В эти дни я совсем не помню Андрюшу:<ACC>.
I have no memory of Andriusha at all during those days.

The two tokens with genitive have essential reference – in [244], ‘no memory of a person fitting the description of a teacher’.

[244] Я училась дома. По школьным предметам не помню учительницы:<GEN>.
I studied at home. For academic subjects I don’t remember having any teacher.

At the opposite extreme, abstract nouns and event nouns are very likely to use the genitive, as are plural nouns (in this sample, exclusively):

[245] И никто, кроме меня, ее полублизнеца, не помнит тех лет:<GEN> ее жизни.
No one, except me, her near twin, remembers those years of her life.

The one context of variation in this sample (Table 5.10) is singular concrete inanimate common nouns. The genitive is used when there is no memory of singular entities that have essential reference – in [246], there is no memory of whatever the color of the binding was:

[246] Цвета:<GEN> моей обложки не помню, было издано их разных цветов –
малиновых, синих, зеленых.
The color of the binding I don’t remember, it was published in various colors –
raspberry, blue, green.

38 A. Tsvetaeva, Vospominaniia (Moscow, 1971).
The genitive is more usual, but the accusative is possible if there is partial memory. Example [247] contrasts the one fact the speaker fails to recall (the name) with the positive memory of other facts about the individual (background, interests).

[247] В одном из антикварных магазинов Москвы великий князь, — его имя <ACC> не помню, — знаток гравюр, он искал там чего-нибудь для своей коллекции — рассмотрел недоуничтоженные признаки принадлежности гравюр Румянцевскому музею.

In one of the antique stores in Moscow a grand prince (his name I don’t remember — he was a connoisseur of engravings, he was looking for something for his collection) – discovered the still not completely obliterated traces of the fact that the engravings had belonged to the Rumiantsevsky Museum.

5.4.5 Genitive objects: summary

Negation always allows the possibility that the alternative possible state of affairs could be envisaged, but the alternative can be more or less prominent. When a transitive verb is negated, the genitive is appropriate to the extent that the import is to negate the whole event unconditionally. For this reason, the genitive is appropriate when the opposite polarity of the predicate is irrelevant or precluded. Emphatic negation entertains but dismisses alternative states of affairs; in gerunds and participles, the currently reported property is presupposed, positive alternatives being deemed irrelevant. At the level of argument reference, the genitive is appropriate when the object has essential reference — when it cannot be defined independently of the currently reported property, as is the case with abstract and plural nouns, and all there is to say about the object is that something fitting the definition of being a such and such does not participate in the event.

The accusative is appropriate with negated transitive verbs to the extent that the opposite, positive, polarity of the predicate is entertained or implicitly asserted, as it is with certain phrases (чтобы не) or with modalities in which the opposite polarity is kept in view (in questions, counterfactuals, expectations in context). When the current negated situation is not the only situation that might be reported of the world, the communicative focus goes to the contrast of polarities, and the negation of the event (and the failure of the object’s participation) are no longer unconditional. At the level of the argument, the accusative is appropriate to the extent that the reference of the argument is individuated. When the object is individuated, it is relevant to the text in ways that go beyond the current negative proposition, and the negative situation being reported can be viewed as a property of the individual named by the object, rather than as a property of the verb and object as a whole. For this reason, proper names and
nouns referring to animates are generally accusative. In the most general terms, the accusative is appropriate to the extent that the negated situation is only one among many things that might be said about the object entity.

5.5 Secondary genitives and secondary locatives

5.5.1 Basics
For most nouns of Declension<IA> the genitive ends in {-a}. In addition to this “primary” genitive (or GEN1), certain nouns have the possibility of using a “secondary” genitive (or GEN2) that ends in {-u}.39 Also, certain nouns of Declension<IA> use a secondary locative form (LOC2) ending in stressed {-ú} instead of the expected locative form {-e} (LOC1). For some nouns of Declension<IIIa> there is variation in the place of the stress in the locative case form. For the nouns that have the variation, the unstressed {-í} is used in the same contexts as the primary locative LOC1 of Declension<IA>, while the ending with the vowel stressed {-ú} is used in contexts analogous to those in which the LOC2 in {-ú} is used.

The uses to which the secondary case forms are put are among the regular functions of the genitive and locative cases: the secondary cases are indeed genitives and locatives. Both secondary case forms are restricted to a small number of lexical items. For some lexical items, these secondary forms are quite stable, for others less so. Over time, the secondary cases are gradually becoming more restricted.

5.5.2 Secondary genitive
GEN2 is used most freely with mass nouns designating solids or fluids, portions of which can be detached and manipulated – measured, purchased, consumed. It is used with appreciable frequency only with approximately a half-dozen such nouns, with less frequency with another dozen. Diminutives retain GEN2 well. With other nouns, GEN2 is residual.

[248] Nouns in Declension<IA>, using GEN2


40 In the study of Krysin (1974:169), the commonplace comestibles cá́хар and чá́й ranked lower than half a dozen other nouns: кáд (75%), тауóр (59%), табáк (51%), лáкс (50%), сé́р (49%), аóкк (48%), and only then cá́хар (44%), чá́й (42%). The low rank reflects how the questionnaire was constructed. The first six were used only with the verb купáть, the most favorable context for GEN2. Cá́хар and чá́й were tested in other contexts, some of which discourage GEN2 (выпить стакан крепкого чáо<GEN2> ‘drink a glass of strong tea’ – unfavorable; промышленность выпустила болóе сáхару<GEN2> ‘industry produced more sugar’ – very unlikely). In a contemporary search on the
SUBSTANCES AND FLUIDS [less frequently]: ṣe,  IConfigurationGrammar of Russian .

AR eference Grammar of Russian

DIMINUTIVES OF MASS NOUNS [frequent]: ṣe,  IConfigurationGrammar of Russian .

ETHERS [unusual]: ṣe,  IConfigurationGrammar of Russian .

EVENTS [residual]: ṣe,  IConfigurationGrammar of Russian .

Gen2 is occasionally used with borrowings ([249], on Washoe’s sign language):

[249] Знак: Пить

Описание: Рука сжата в кулак, большой палец касается рта.

Контекст: Просит воды, лекарства, лимонаду<Gen2>. Просит лимонаду<Gen2>, часто комбинирует со знаком «сладкий».

Sign: Drink

Description: Hand balled into a fist, forefinger touching the mouth

Context: Asks for water, medicine, lemonade. Asking for lemonade, often combines with the sign for “sweet”.

The extension to borrowings such as шоколад ‘chocolate’, джем ‘jam’, or лимонад ‘lemonade’ suggests that Gen2 has been mildly productive, but overall, its use is being curtailed. Very recent borrowings such as йогурт ‘yogurt’ are unlikely to develop Gen2.

The possible contexts in which Gen2 appears are these: (a) in the partitive sense of the genitive, with verbs reporting transfer (купить ‘buy’, предложить ‘to offer’) or consumption (выпить ‘drink down’, съесть ‘eat up’); (b) with negation, often emphatic, especially negation of the same verbs that could elicit Gen2 in its partitive sense; (c) with approximate quantifiers and quantifying predicates (столько ‘so much’, хватает ‘suffices’); (d) domestic measures of quantity (сахар<Gen2>-клонут самую крошечку ‘of sugar they put in a small pinch’; гала ей кусок пирога и чашку чая<Gen2> ‘she gave her a piece of pie and a cup of tea’; поллитровая банка меду<Gen2> ‘a half-liter tub of honey’; белый ломтик сыру<Gen2> ‘a white chunk of cheese’; exceptionally привез целый чемодан отборного, душистого и крепчайшего табаку<Gen2> ‘I brought a whole suitcase’s worth of select, pungent, dark tobacco’; (e) with specific quantifiers (пять килограмм табаку<Gen2>); and (f) residually, as idioms with prepositions (со страха<Gen2> ‘from fear’, stylistically marked, без сахара<Gen2> ‘without a dose of sugar’, and certain fixed phrases, из дома<Gen2> ‘away from home’ vs. из дома<Gen1> ‘from out of the building of the house’. Descriptive modifiers reduce the likelihood of using Gen2: выпил чая<Gen2> is nearly universal (97%) while выпил крепкого чая<Gen2> is not

web (<02.XI.02>) of collocations with the infinitive купить, чай and табаку scored well over 50 percent; сахар and сыр were around 50 percent; other nouns occurred too infrequently to allow even impressionistic judgments about frequency.
Contexts that are then excluded from using \texttt{gen2} are prepositions (except some residual idioms), transitive verbs other than verbs reporting transfer or consumption when they take the genitive under negation, and adnominal genitives: пятна чая \texttt{<gen1>}, ‘spots of tea’, беседа за питьем чая \texttt{<gen1>}, ‘a conversation while drinking tea’, уютный запах табака \texttt{<gen1>}, ‘the pleasant aroma of tobacco’.

It is often said that \texttt{gen2} can always be replaced by \texttt{gen1}, and in a sense that is true. \texttt{Gen2} forms are above all genitive; these contexts are all contexts in which \texttt{gen1} can be used. Yet when \texttt{gen2} is possible, it contributes an extra nuance. \texttt{Gen2} is most natural in contexts in which the predicate detaches and defines a recognizable quantum of the mass; the event creates a dose, a portion – with the intention or result that the dose of the mass can be manipulated in a conventional, domestic way. For this reason, \texttt{gen2} is most frequent in collocations such as попить чайо \texttt{<gen2>}, understood as a ritualized event:

[250] Хорошо переодеться в сухое, позавтракать, попить чайо \texttt{<gen2>}, отдохнуть.

It would be good to change into dry clothes, have breakfast, drink some tea, relax.

In [251], the purchase defines the portion and its function (to be eaten):

[251] Захотелось есть, и он купил супу \texttt{<gen2>}, и пристроился рядом с двумя красавицами.

He wanted to eat, and so he bought some soup and set himself up next to two beauties.

\texttt{Gen1} is used for the partitive sense if the idea of conventional portion is lacking, as in [252], where the mushroom-gatherer imagines buying types of things, not doses:

[252] Она придет первой в лес, наберет полную корзину самых лучших грибов, продаст их на рынке, купит белого хлеба \texttt{<gen1>} и сахара \texttt{<gen1>}.

She’ll be the first in the forest, she’ll collect a full basket of the best mushrooms, sell them at the market, and buy some white bread and sugar.

With negation, \texttt{gen2} is used when the corresponding positive sentence would otherwise use \texttt{gen2}: выпили чайо ‘they drank some tea, engaged in the ritual of tea-drinking’, не выпили чайо ‘they did not have a chance to engage in the ritual of tea-drinking’. With \texttt{нёт}, \texttt{gen1} denies the universal availability of sugar ([253]), while \texttt{gen2} denies the existence of the requisite dose of sugar ([254]):

[253] Не было сахара \texttt{<gen1>}, и с трудом, за большие деньги доставалась соль.

There was no sugar, and it was only with difficulty, for a lot of money, that salt could be acquired.

\textsuperscript{41} Whole web, <02.XI.02>.
She offered me tea, but apologized that she did not have sugar and the bread was stale.

With quantifiers and quantifying predicates, gen2 is used again for actions that create conventional portions or conventional events: наться вечером горячего чая ‘drink all one wants of hot tea in the evening’; налила ему чая ‘she poured him (a portion of, a cup of) tea’, or doses of domestic comestibles:

Of bread, there was a small piece, and of sugar, very little, about a teaspoon's worth.

Народь ‘people, folk’, unusual as a mass noun in that it refers to animate beings, is widely used as gen2 – with an explicit quantifier ([256]) or even as subject genitive ([257]):

Many people accompanied the young people.

There are enough people for ten years.

To review: gen2 is most natural in events that report that a quantity of the mass is detached and manipulated in a conventional, even specifically a domestic, fashion.

5.5.3 Secondary locative
Loc2 in stressed {-ú} is used only with the two locative prepositions в and на, but not with о, по, при, prepositions that govern the locative case but whose meaning is less spatial. Less than two dozen nouns in Declension<IA> use loc2 ([258]):

The nouns listed in [258] use loc2 with different frequency. In the sociolinguistic survey conducted in the 1960s (Krysin 1974), the use of loc2 in в снегу ‘in the snow’ remained constant at 97 percent for speakers from the oldest cohort to the youngest. For other nouns, the percentage of speakers who used
Table 5.11  Usage of *loc*2

<table>
<thead>
<tr>
<th>noun</th>
<th>oldest cohort&lt;sup&gt;α&lt;/sup&gt; (%)</th>
<th>youngest cohort&lt;sup&gt;α&lt;/sup&gt; (%)</th>
<th>tokens&lt;sup&gt;β&lt;/sup&gt;</th>
<th>total LOC&lt;sup&gt;β&lt;/sup&gt;</th>
<th>percentage&lt;sup&gt;β&lt;/sup&gt;</th>
</tr>
</thead>
<tbody>
<tr>
<td>в снегу</td>
<td>97</td>
<td>97</td>
<td>1050</td>
<td>1053</td>
<td>100</td>
</tr>
<tr>
<td>в югу</td>
<td>41</td>
<td>37</td>
<td>91</td>
<td>321</td>
<td>28</td>
</tr>
<tr>
<td>в мегу</td>
<td>35</td>
<td>22</td>
<td>47</td>
<td>68</td>
<td>69</td>
</tr>
<tr>
<td>в отпьску</td>
<td>25</td>
<td>17</td>
<td>68</td>
<td>658</td>
<td>10</td>
</tr>
</tbody>
</table>

<sup>α</sup> = Krysin 1974  
<sup>β</sup> = http://www.lib.ru <04.VI.02>

*loc*2 declined slightly from the oldest to the youngest cohort (Table 5.11). The frequency of usage was checked on a website with extensive contemporary Russian texts (www.lib.ru) for four nouns (Table 5.11). The frequencies of usage are comparable to the figures recorded a quarter of a century ago, except with the idiom в мегу.

With чёснок, *loc*2 is used almost exclusively. It specifies the kind of medium or location in which a state or activity is situated ([259–60]):

---

[259] Он с трудом брел в снегу<sub>_loc<sup>2</sup>_</sub> часа два.  
He wandered through the snow with difficulty for two hours.

[260] И ему почему-то тяжелее было представить себе тех трех человек, которые лежали на снегу<sub>_loc<sup>2</sup>_</sub>.  
It was for some reason more difficult to imagine those three people lying on the snow.

At the opposite extreme, with отпуск, *loc*1 is now almost universal; it describes an official status ([261]). *Loc*2, when it is used, is an informal, less bureaucratic variant ([262]).

---

[261] Положение у нее было трудным. Мать с отцом в отпуске<sub>_loc<sup>1</sup>_</sub>, бабушка еле ходит . . .  
She has a difficult situation. Mother and father are on leave, grandma can hardly walk . . .

[262] – Садись и отдыхай – Ты ведь в отпуску<sub>_loc<sup>2</sub>_</sub>.  
– Sit down and rest – after all you’re on leave.

42 *Loc*1 can be used with чёснок if the noun is understood as an abstract repository of various properties manipulated by mental processes, as in Jakobson’s (1936/1971[b]) constructed example, Живописности в снеге нет ‘there is nothing picturesque in snow’.
With кральный, loc2 has become idiomatic; it is basically restricted to unique locations that have characteristic properties – familiarity ([263]), remoteness ([264]), or extremeness ([265]):

[263] в нашем краю in our region
[264] в самом далеком краю in the most remote region
[265] в таежном краю the taiga region

In contrast, loc1 is used, for example, to differentiate one region from another (в Краснодарском крае ‘in the Krasnodar region’). In a similar fashion, в мозгу ‘in the brain’ is used for the brain as seat of consciousness, в мозге ‘for the physiological organ. В кругу ‘in the circle’ means a context for something (в кругу его интересов ‘in the confines of his interests’), especially a social context (в семейном кругу ‘in a family environment’, в кругу танцующих ‘among those who were dancing’). В круге ‘describes the geometric figure (с нарастающей скоростью вращается в круге ‘he spins in a circle with ever increasing speed’). In these three instances, the difference is very much lexical; краю and кругу evoke different senses of the nouns from крае and круге.

Цех ‘shop’ is one of the few nouns which has real variation in usage. Loc2 в цеху, less bureaucratic than loc1, presumes that the properties of this locus are known and serves as a background for other events ([266]):

[266] Прошло немного времени, и Оля вдруг почувствовала, что беременна <...> В цеху женщины сразу поняли в чем дело.
A little time passed, and Olya suddenly became aware that she was pregnant <...> In the shop the women understood right away what was up.

(Understood in generic terms, as a type of livelihood, в цеху can also characterize a person: жизнь в цеху прошла ‘she had passed her life in the shop’)

[267] Все они работали в экспериментальном цехе, где строились модели.
They all worked in an experimental shop where models were built.

В цехе is used as focal information, for example, to differentiate workshops ([267]).

For nouns of Declension, the difference between loc1 and loc2 is one of stress: loc1 о крови but loc2 в крови. Stress on the ending in the locative case has begun to yield to stress on the stem, to judge by warnings in manuals of usage. As the stress changes, the stressed and unstressed variants can acquire different senses analogous to the senses of в кругу vs. в круге, etc. As shown in
Table 5.12 Loc2 in Declension<IIIa>

<table>
<thead>
<tr>
<th>bare noun and preposition</th>
<th>novel collocation</th>
<th>comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>(a) а глубь ‘at a depth’, а далы ‘at a distance’, а кровь ‘in the blood’, а сржь ‘in filth’, а сеня ‘in the shade’, на цела ‘on a chain’, на ося ‘on the axis’, а ночь ‘in the night’</td>
<td>а необыкновенної далы ‘at an unusual distance’</td>
<td>consistent end stress, all contexts</td>
</tr>
<tr>
<td>(b) о на печь ‘in/on a stove’, о теня ‘in the shade’</td>
<td>а гёменной пёчё ‘in a blast furnace’, а электропечи ‘in an electric oven’, а полутёп ‘in half-shade’</td>
<td>end stress in bare noun, some variation in novel collocations</td>
</tr>
<tr>
<td>а степё ‘in the steppe’~ не а степи [3 sources]</td>
<td>а раскинувшейся степи ‘in the flung-out steppe’</td>
<td></td>
</tr>
<tr>
<td>а связь ‘in connection’ [5 sources] ~ а связь [1 source]</td>
<td>а неразрывной связь ‘in unbroken contact’ [2 sources]</td>
<td></td>
</tr>
<tr>
<td>(c) а сетя ‘in the network’ [1 source] ~ а сеть [3 sources] ~ а сети [1 source]</td>
<td>а англоязычной сети ‘on the English-language net’</td>
<td>stem stress common in novel collocations, occasional in bare noun [substandard]</td>
</tr>
<tr>
<td>а целю ‘in the slit’ [4 sources] ~ а целю [2 sources]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(d) [only] ангел во плоти ‘angel in the flesh’ ~ [usual] а плоти ‘in the flesh’</td>
<td>а человеческой плоти ‘in human form’</td>
<td>end stress only in idioms</td>
</tr>
</tbody>
</table>

сеть, etc. = variation in the position of stress

Table 5.12,⁴³ there is a gradation of possibilities: nouns that still have the end stress of Loc2 consistently; nouns that have Loc2 without modifier but occasional variation in novel collocations with modifiers; then nouns with variation between Loc1 and Loc2 in novel collocations, sometimes even in phrases with no modifiers; and nouns that have generalized Loc1 (stem stress) except in fixed phrases. Over the very long term, the use of Loc2 is on the decline, but each noun has its own preferences. Among nouns of Declension<IA>, Loc2 is still close to automatic with сеё and лёс, but is little used now with most of the other nouns listed in [258]. Loc2 is also on the wane among nouns of Declension<IIIa>. When both variants are possible, Loc1 is used for novel combinations that define a new individual on the spot, while Loc2 presumes that the entity and its properties are familiar.

5.6 Instrumental case

5.6.1 Basics
The instrumental is the one case other than the genitive that is used in a wide range of contexts. Though heterogeneous, these contexts have some similarities and connections.\(^{44}\)

5.6.2 Modal instrumentals
Closest to the use of the instrumental for predicatives (§5.2) is the use of the instrumental to state a simile, \textit{выть волком} ‘howl like a wolf’ or to name a function of an individual, \textit{работать инженером} ‘work as an engineer’. In both uses, the construction identifies the subject entity as being like unto a certain type (‘wolf’, ‘engineer’) in some respect, but stops short of saying that it is to be identified completely as belonging to that type.

Certain idiomatic phrases with the instrumental case describe the medium of an event – the location ([268]) or time ([269–70]).

[268] Дорога шла то лесом, то полями, через деревни и села.
The road went through the forest, over fields, through villages and settlements.

[269] Поехали продтредовцы куда-то в уезд доставать хлеб, и их спящих ночью убили.
The provision brigades went off into the hinterlands to get grain, and then they were killed at night as they slept.

[270] А в Великий четверг после службы двенадцати евангелий звездной ночью мы несли зажженные свечи.
And on Maundy Thursday after the service of the Twelve Gospels we carried lit candles through the starry night.

The instrumentals identify a type of medium in which a certain activity is appropriate – a type of road in [268], a type of time (nighttime, with overtones of mystery in [269–70]).\(^{45}\)

5.6.3 Aspectual instrumentals
A characteristic feature of Russian is the use of the instrumental with predicates that describe activities in which a human agent moves a body part of the subject or an immediate extension of the body: \textit{махнуть рукой} ‘wave with the hand’, \textit{трескать головой} ‘shake with the head’.

\(^{44}\) The contexts discriminated by Jakobson 1936/1971[b], 1958/1971[b] have been decomposed into syntactic structures by Worth 1958, restated by Wierzbicka 1980, and translated into cognitive grammar by Janda 1993.

\(^{45}\) Giusti Fici 1989:64: the instrumental “est fonctionnel par rapport au mouvement de passage en soi, et [. . .] il sert à le caractériser.”
{the head ~ hand ~ a pistol}. The body part is synecdochic to the aspectuality (change) of the predicate. When the mobile entity is a separate, external entity, rather than a body part or an extension of a body part, these predicates are transitive and use the accusative for the mobile entity:

[271] Одни целовали ее, другие молча трясли руку<acc>.

Some kissed her, others silently shook her hand.

Many of these predicates are intrinsically cyclical, and so form semelfactive perfectives in {-nu-}: махать ‘wave [continuously, repeatedly]’, махнуть ‘give a single wave’. Some have reflexive transforms in which the mobile entity is the subject: руки трясутся ‘hands shake’, мы тряслись ‘we shook’. The full range of constructions is attested with двигать(ся) ‘move’. It uses the instrumental for synecdochic parts ([272]), the accusative for separate entities ([273]), the reflexive transform for spontaneous motion of body parts ([274]) or autonomous agents ([275]):

[272] Я двигал локтями<ins> в бока.

I moved (with) my elbows into people's sides.

[273] Кто-то стал плясать, двигали с шумом мебель<acc>.

Some started to dance, they moved the furniture noisily.

[274] Его щеки<nom> быстро двигались.

His cheeks moved quickly.

[275] Она<nom> зажгла уже свечи и теперь двигалась к столу.

She had already lit the candles and now was moving towards the table.

Other predicates use the instrumental in a similar fashion, although they do not have the same range of options as трясти(ся), двигать(ся). Some predicates occur only with a synecdochic body part, and therefore consistently use the instrumental: мигать\мигнуть глазами ‘blink with the eyes’. Verbs reporting the emission of a sensory signal express the locus of the signal in the instrumental, скрипели воротом ‘they squeaked with the winch’, копыта блистили подковами ‘the hoofs gleamed with the horseshoes’, блестит лаком новенькая балалайка ‘the new balalaika gleams with lacquer’, or else the locus of the signal is nominative, скрипели колеса ‘wheels squeaked’, зубы блестели ‘her teeth gleamed’. Similar is пахнуть ‘smell’. Its instrumental is metonymic to the general aspectuality of the predicate, which is the emission of a smell: пахнет {дымом ~ овощами ~ свежестью ~ медом ~ сеном} ‘it smells of {smoke ~ sheep ~ freshness ~ honey ~ hay}’.

A small set of verbs that report launching projectiles (метать\метнуть ‘toss’, бросить\бросать ‘throw’, швырять\швырнуть ‘chuck’) can take either the accusative ([276-77]) or the instrumental ([278]):
Out of the postal car they would toss a bag with letters and newspapers.

Children incapable of throwing stones were never feared by crows.

The women cursed the cat, the lads chucked stones.

The accusative reports a directed change in the aspectual argument, the instrumental a type of activity affecting the missile, such as the pelting with stones that befell the tomcat ([278]).

And there are also instrumentals that specify the nature of the mobile entity that affects an (accusative) patient of a transitive predicate, as in 'it is capable of providing a city with electrical energy', 'provision of farms with technology'. This is the normal valence of this verb and of verbs like 'they stuffed barrels with fish', or [279]:

They buttoned their coats all the way up and stuffed them with straw.

This and similar verbs sometimes use an alternate valence, in which the mobile entity is accusative and the domain is a (directional) prepositional phrase: 'you have to drive wooden plugs into the holes and screw in the hinges again'.
Table 5.13 Types of instrumental constructions

<table>
<thead>
<tr>
<th>context</th>
<th>example</th>
<th>interpretation</th>
</tr>
</thead>
<tbody>
<tr>
<td>predicative</td>
<td>быть привлекательным&lt;ins&gt; 'be attractive'; прийти&lt;ins&gt; 'arrive disillusioned'</td>
<td>property holds in one predicate history, fails to holds in a parallel history in another time-world</td>
</tr>
<tr>
<td>simile</td>
<td>быть волком&lt;ins&gt; 'howl like a wolf'</td>
<td>predicate history holds in imagined world of comparison, though not in actual world</td>
</tr>
<tr>
<td>medium</td>
<td>ехать {леся&lt;ins&gt; ~ ночь&lt;ins&gt;} 'travel {through the forest ~ at night}'</td>
<td>medium in which event, as type, is embedded</td>
</tr>
<tr>
<td>manner</td>
<td>говорить режим тоном&lt;ins&gt; 'speak in a harsh tone'</td>
<td>entity characteristic of activity as type of activity</td>
</tr>
<tr>
<td>aspectual</td>
<td>трясти рукой&lt;ins&gt; 'shake a hand', блестеть умом&lt;ins&gt; 'shine by means of the mind', бросить камнями&lt;ins&gt; 'throw stones', снабжать город энергией&lt;ins&gt; 'provide the city with energy'</td>
<td>entity synecdochic to aspectuality</td>
</tr>
<tr>
<td>instrument</td>
<td>перейти лишо конем&lt;ins&gt; 'cross the line with the knight'</td>
<td>entity synecdochic to agentivity</td>
</tr>
<tr>
<td>pseudo-passive of natural force</td>
<td>комнату залило водой 'the room got flooded by water'</td>
<td>entity synecdochic to agentivity</td>
</tr>
<tr>
<td>passive agent</td>
<td>берега захвачены дачной&lt;ins&gt; публикой&lt;ins&gt; 'the shores were occupied by the dacha-goers'</td>
<td>entity synecdochic to agentivity</td>
</tr>
</tbody>
</table>

An instrumental is often used to express the manner of an activity:

[283] Г. Каспаров четкими маневрами<ins> фигур вынудил размен и отбил атаку.

G. Kasparov with precise movements of the pieces forced a trade and repelled the attack.

Here the instrumental seems to be intermediate between an instrument in the strict sense and a circumstantial instrumental like ночной 'at night'.

5.6.5 Summary

The basic uses of instrumental are summarized in Table 5.13, with examples. In predicative constructions (§5.2) the instrumental case imputes two alternative predicate histories. In one the property holds, in another, the property does not. More broadly, the instrumental can be said to manipulate two situations. It both differentiates them and also connects them as part of a larger picture. In
the contexts listed in the second half of Table 5.13, the entity expressed by the instrumental is tangentially involved in the progress of the event; the entity is in a relationship of synecdoche to some other more central agent or aspectual element, or to the general idea of agentivity or aspectuality. For example, the contribution of the instrumental entity as agent or aspectual argument is only partial, incomplete; it is connected to agentivity or aspectuality, but that entity is not identified completely as the primary agent or aspectual argument. In the middle of Table 5.13 are constructions in which the instrumental is used in adverbial functions. They describe a history that has one shape – harsh-speaking or forest-traveling at night (through the medium of forest) – and that shape is linked to but differentiated from other imaginable types of histories. If there is a unity in the constructions employing the instrumental, it is the way in which two alternatives are proposed, where the asserted history is viewed as a synecdochic part of a larger history.

5.7 Case: context and variants

5.7.1 Jakobson’s case system: general
In two studies twenty years apart, Roman Jakobson developed an analysis of the case system of Russian that is both of historical and continuing interest.46 The analysis, formulated in the spirit of the structuralist intellectual climate of the period between the two world wars, consists of the following interlocking claims.

**Invariant meaning (Gesamtbedeutung):** Jakobson proposed that each case has a consistent meaning, or value. That value is present in all contexts in which a case is used – with verbs, with prepositions, with adjectives or nouns.

**Binary feature analysis:** Collectively, the cases form a tightly structured system in which each case can be specified by positive or negative values of a minimal number of binary features. Over the whole system, the features are utilized as fully as possible.

**Markedness:** The binary features are asymmetric: for each binary feature, one value is marked (more narrowly defined and restricted in usage), the other unmarked (broader in definition and usage).

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Maximalization: Jakobson included in his analysis the two secondary cases. (Fig. 5.1 and the discussion below ignore the second genitive and locative.)

Syncretism and iconicity: The binary feature analysis of case predicts the occurrence of syncretism (the same morphological expression of different case endings). Syncretism occurs between cases that are similar and share features; that is, similarity in value is matched in an iconic fashion by similarity of morphological form.

5.7.2 Jakobson’s case system: the analysis
Jakobson’s analysis of the six basic cases can be represented as in Fig. 5.1.

Nominative and accusative are \([−\text{PERIPHERAL}]\), inasmuch as these cases are used for the major arguments of predicates. The distinction of \([±\text{PERIPHERAL}]\) fits with contemporary theories of syntax that distinguish between syntactic cases (\(= [−\text{PERIPHERAL}]\)) and semantic cases (\(= [+\text{PERIPHERAL}]\)), except that in contemporary theories, syntactic case is automatically derived from a syntactic structure and is thereby devoid of meaning, whereas Jakobson exactly wanted to argue that all cases in all contexts have value. Even if the features of Jakobson are utilized in a contemporary approach as notational devices analogous to phonological features, the spirit in which the features were intended differs radically. The accusative and dative are a class and share the feature value \([\text{+DIRECTIONAL}]\), since they express the direct and indirect objects; both can be said to occur with arguments to which activity of the predicate is directed. The locative is transparently \([+\text{PERIPHERAL}]\). It is less than obvious in what sense the locative is \([+\text{QUANTIFYING}]\).

The genitive and instrumental (§5.6) are the cases where the issues of invariance and binary features come to the fore. Both are used in a wide range of contexts.

The genitive is used with prepositions, with verbs, with quantifiers, and as internal arguments of noun phrases. These uses, claims Jakobson, all reflect a restricted quantity of participation by the argument marked with the genitive case.
This formulation makes sense with contexts which measure the quantity in some way— with quantifiers and verbs that govern the genitive. Quantifying verbs like хватить ‘be sufficient’, насолить ‘salt up a whole lot of’, насмотреться ‘look at to one’s heart’s content’ measure quantity of participation against an implicit standard. The partitive usage is quantifying (вьпить чая<gent> ‘drink some tea,’ §5.5). The genitive of negation could be viewed as restricted participation (§§5.3, 5.4). What this formulation means with respect to the internal arguments of noun phrases— possessors— is less clear, unless one takes this to mean that the possessor participates only by virtue of serving in a limited role relative to another entity— the head noun of a noun phrase. But this is a rather different sense of limited participation from the genitive used with quantifiers.

In a similar fashion, the uses of the instrumental can be seen as related. The instrumental of simile and the predicative instrumental propose that an identity or property holds of something, but only partially (§§5.6, 6.2). Similarly, the agentive instrumental (true instruments, instrumental in pseudo-passives) and the aspectual instrumental (ин трясти рукой ‘shake [with] one’s hand’, изымать камнем ‘throw [with] a stone’, пахнуть овцами ‘smell of sheep’) identify an entity that participates in the event in a certain way— as agentive or aspectual— while at the same time the entity is synecdochic to agentivity or aspectuality in general (меня ударил током ‘I was hit with a shock’, махать рукой ‘wave with the hand’).

What really characterizes the instrumental, then, is synecdoche: it indicates an entity that is part of the larger agentivity or aspectuality of the predicate. As Jakobson defines the instrumental, it is positively defined for the feature [+PERIPHERAL], and it is negatively defined for other features. The definition is not sufficiently refined to get at what is involved in the instrumental: an entity is part of the whole, but not the whole story.

Whether these various contexts of the genitive, and the various contexts for using the instrumental, reduce to a single invariant meaning (Gesamtbedeutung) is ultimately a question of how one conceptualizes grammar. Jakobson seems to assert complete unity, but does so exactly by exhibiting the heterogeneous contexts in which a case is used— for example, the contexts of the instrumental case listed in §5.6. No matter what, a grammatical description will have to contain a list of the various contexts in which a case is used. Wierzbicka’s exposition (1980), intended as a defense of Jakobson, does exactly this; it recognizes a set of contexts and gives somewhat different paraphrases for each. Inevitably one comes to a network model, a model that describes a set of partially distinct but partially related contexts or constructions. Once the network of contexts is spelled out, the question of whether there is an invariant meaning (Gesamtbedeutung) fades in importance.
Where Jakobson’s definitions of case have some special insight is in contexts in which there is synchronic variation. For example, saying that the genitive is quantifying does get at something of the variation between accusative and genitive in the context of the genitive of negation: the genitive is indeed used when the utterance denies participation – that is, when participation of an entity is quantified negatively.

The assessment is then mixed. The various constructions or contexts (Sonderbedeutungen) of each case have to be distinguished and described in some way, as partially distinct constructions. The fact that there is some similarity is inevitable, since the various constructions have developed from common historical sources. If one attempts to generalize over all contexts, the resulting overarching, Platonic definition will be vague. Yet an invariant value proves useful as a way of interpreting the sense of ad hoc variation of cases in contexts in which there is active variation.

5.7.3 Syncretism

While Jakobson formulated his analysis primarily in order to account for the meaning (value) of cases, he also attempted to demonstrate that syncretism matches meaning – that is, that cases which have the same morphological expression have similar meanings, and specifically that all instances of syncretism – the same (or similar) morphological expression for different cases – occur between cells that are adjacent in Fig. 5.1.47 Similarity in form occurs only when there is similarity in meaning. For example, nominative and accusative form a class because they merge in the singular of inanimate nouns of Declension$_{<}^{I}$; this small class can be defined as $[−$PERIPHERAL, $−$QUANTIFYING$]$. When the genitive and locative plural of (inanimate) adjectives merge – Jakobson’s множных$_{<}$GEN=LOC=PL, ‘alehouses’ – that syncretism can be described simply as the merger of $[+$QUANTIFYING, $+$PERIPHERAL$]$ cases. In this way syncretism appears to be ICONIC of meaning.

While it is true that all instances of syncretism occur between cells that are adjacent in the pictorial representation, it turns out to be difficult to define that concept of “adjacent cells” in terms of features; complex manipulations are needed. For example, accusative and genitive are merged in animates. To state this, one has to say, as in [284][a]: among $[−$PERIPHERAL$]$ cases, $[+$QUANTIFYING$]$ (genitive) syncretizes with $[−$QUANTIFYING$]$ if the $[−$QUANTIFYING$]$ case is also $[+$DIRECTIONAL$]$ (accusative), but not if it is $[−$DIRECTIONAL$]$ (nominative).

47 On case geometry and Fig. 5.14, see Chvany 1982, 1984, 1986, McCreight and Chvany 1991.
A similarly complex statement has to be used with the dat and loc, which merge in the singular of Declension $<_{\text{II}}>$: the $[-\text{quantifying}]$ case syncretizes only if it is also $[+\text{directional}]$ ([284](b)). A disjunction of features is required to state the syncretism of the set $\{\text{gen}, \text{loc}, \text{dat}\}$, which occurs in the singular of Declension $<_{\text{III}}>$ ([284](c)), or the syncretism of the set $\{\text{gen}, \text{loc}, \text{dat}, \text{ins}\}$, which occurs in feminine singular adjectives and some numerals ([284](d)).

Thus the patterns of syncretism between cells adjacent in Fig. 5.1 are not actually predicted directly and transparently from the feature definitions; extra statements are needed. In fact, it has been pointed out that, if the six basic cases (not the secondary cases) are arranged in the linear order: nom, acc, gen, loc, dat, ins, then only cells that are adjacent in this one-dimensional list tolerate syncretism, as marked by shaded cells in Fig. 5.2.\footnote{Chvany 1982.} This linearization makes it clear that the patterns of syncretism have their own logic that is not directly tied to the featural definitions of Fig. 5.1.

5.7.4 Secondary genitive and secondary locative as cases?

Jakobson included in the discussion the secondary genitive and locative. Jakobson’s inclusion of the two secondary cases has attracted some attention, the more so since he changed the featural definitions of these cases from the first study in 1936 to the second in 1958. In 1936, to characterize the distinction of two genitives and locatives, Jakobson invoked a special feature not otherwise used; gen2 and loc2 were said to be marked as $[+\text{shaping}]$ with respect to gen1 and loc1. (In Jakobson’s language, gen2 and loc2 indicate “etwas Gestaltendes oder
zu Gestaltendes,” meaning that \textit{gen}_2 shapes a mass quantity and \textit{loc}_2 serves as a container, thereby shaping something else.) In 1958, the analysis was changed, and \textit{gen}_2 and \textit{loc}_2 became \textit{−directional}, like \text{nom} and \text{ins}, while \textit{gen}_1 and \textit{loc}_1 became \textit{+directional}, like \text{acc} and \text{dat}.

As has been noted, the revised analysis of 1958 is the less appealing.\textsuperscript{49} \textit{Gen}1 and \textit{gen}_2 are equally directional or non-directional, since both can equally be used for objects of predicates in the partitive meaning (купить сахара\textsubscript{<gen>1} \sim caxapry\textsubscript{<gen>2}). In the older two-dimensional figure, some features, specifically [±shaping], were of limited utility. Now in the revised analysis, the system of eight units makes a cube in which all features are used to the maximum. The 1958 analysis seems motivated less by patterns in language than by the desire to produce an elegant geometric figure.

Are \textit{gen}_2 and \textit{loc}_2 separate cases?\textsuperscript{50} Perhaps the question is misguided. Perhaps we should not be forced to declare either that they are cases (if so, why are they so limited?) or that they are not cases (if not, why is there nevertheless some small difference in meaning between the secondary and the primary cases, some of the time?). It might be preferable not to put the question in terms that require one to choose yea or nay.\textsuperscript{51} What these secondary cases are is alternate morphemes for the basic genitive and locative cases used under some conditions, with elusive semantic and stylistic overtones, with certain lexical items. Here, as in other instances of change, the older form is retained in the older, idiomatic, abstract uses, the newer form is employed for novel combinations not learned

\begin{table}[h]
\centering
\begin{tabular}{|c|c|c|c|c|}
\hline
\textit{context} & \textit{INANIMATE} & \textit{ANIMATE} & \textit{ADJ PL} & \textit{ADJ FEM SG} \\
\hline
\textit{Declension}_\textsubscript{<gen>} & (стол, море) & (человек) & (пищевых) & (молодой) \\
\hline
\textit{NOM} & & & & \\
\hline
\textit{ACC} & & & & \\
\hline
\textit{GEN} & & & & \\
\hline
\textit{LOC} & & & & \\
\hline
\textit{DAT} & & & & \\
\hline
\textit{INS} & & & & \\
\hline
\end{tabular}
\caption{Syncretism and linearization of Russian cases}
\end{table}

\textsuperscript{49} Worth 1984, 1998.
\textsuperscript{50} See Comrie 1986[a], 1991 on the theoretical problem of defining cases.
\textsuperscript{51} Despite Me'chuk's pronouncement (1986:56): "One cannot, however, talk about 'variants of a case 2' or about 'case allomorphs that differ semantically' (as is sometimes done): these expressions are logically absurd."
as conventional phrases. This picture of the dynamic development is lost if one is forced to answer a binary question.

5.8 Voice: reflexive verbs, passive participles

5.8.1 Basics
Most verbs take the same cases in their arguments in all contexts in which they occur. In the few instances in which one verb allows arguments in different cases – accusative and genitive for objects of negated verbs, accusative or instrumental (швырнуть {камень<ACC> ~ камнем<INS>}) 'toss a stone ~ engage in stone-tossing') – the verb has the same form; only the case of the argument differs.52 There are, however, two productive patterns for modifying valence in which the verb changes shape: reflexive verbs and passive participles of verbs.53

5.8.2 Functional equivalents of passive
The passive constructions of Western European languages do several things at once. The agent, which in the active construction would be the (nominative) subject, is downgraded to an oblique case, if it is mentioned at all; more commonly, it is not mentioned. The patient, which in the active construction would be the (accusative) object, is given more prominence in its new role as the (nominative) subject. Together, these two criteria amount to a re-weighting of the two arguments of a transitive predicate. In addition, a passive construction often has different aspectual connotations from the active; in particular, a participial passive reports a resulting state rather than an event.

Something of the effect of a European (specifically English) passive is achieved by other means in Russian. To avoid assigning explicit responsibility for an event, Russian uses the third-person plural form of the verb, whether transitive or intransitive:

I remember him well, [they] seized him right there at the bazaar.

[286] Маша отказывалась, ей грозили<PL> арестом.
Masha refused, [they] were threatening her with arrest.

The construction fails to specify the identity of the individuals responsible for the event, even if something more specific could be said. In [287], the woman speaks of being observed in general, though her grounds are that she knows that one individual is observing:

53 The exposition here makes use of Hudin’s (1990) analysis of the functions of the three passive (or passivelike) constructions (and examples [287], [298], [307]).
The construction with unspecified third plural, then, establishes the existence of individual(s) responsible for an event, but refuses to name them. In this construction the object is often placed before the verb (§7.3.6), where it is linked to the prior discourse ([285]). This has the effect of foregrounding the object, another typical function of the passive.

5.8.3 Reflexive verbs
Many verbs include a morpheme descended from the historical enclitic reflexive pronoun, -съ in its fuller form (after consonants, but after both consonants and vowels in active participles), -съ in reduced form (used after vowels, except in active participles). There is a number of recognizably distinct, albeit related, types of reflexive verbs.54

**Reflexivum tantum:** Some verbs are only reflexive, бо́йтся ‘fear’, слу́шатся ‘listen to’ (though related to other verbs from the same root), бор́тся ‘fight, to struggle’, сме́йтся ‘laugh’, надёжтсе́ ‘hope’. The verbs tend to be semi-transitive; there is often another argument that is involved in the activity, similar to a direct object, but less directly affected. Historically the argument could not occur in the accusative. In recent years, these verbs that formerly governed the genitive (бо́йтся, слу́шатся) have begun to allow the accusative ([218]).

“**True**” reflexives: Certain verbs seem to be literally reflexive, in that the subject acts on the self. Such verbs are now limited to conventionalized, domestic activities involving contact with the self’s inalienable body: мыйтся ‘wash (oneself)’, бриться ‘shave (oneself)’. As a rule, except for this small set of verbs, an action performed on the self is expressed by an argument pronoun себй. Where both reflexive verbs and reflexive objects with себй exist, they differ in meaning. Мыйтся is an intransitive activity, not directed at an object, whereas мыйть себй is an activity directed at an entity, which could be any thing (such as a horse), but in context happens to be the same entity as the subject:

[288] Я был в бане. Я мыйл себя щетками, как коня.

I was in the bathhouse. I scrubbed myself with brushes, like a horse.

54 For the basic typology, see Ianko-Trinitskaia 1962, Gerritsen 1990.
Certain common reflexive verbs have acquired the sense of engaging in an activity intensively with the self and all parts involved: броситься ‘throw oneself, to lurch’; биться ‘beat against (for example, snow against a window), not the same as бить себя в грудь ‘beat oneself on the breast’.

**Reciprocal reflexives**: A number of actions that portray individuals (or groups) mutually acting one on the other are expressed as reflexive verbs: гра́ться ‘engage in fighting each other’, мириться ‘reconcile’.

**Habitual reflexives**: With a very small number of verbs, the reflexive implies a predisposition to an activity, the classic collocations being собака кусается ‘the dog bites’, корова бодается ‘the cow butts’, крапива жжется ‘the nettle stings’.

**Phenomenological reflexives**: Some intransitive verbs report a manifestation of color and its perception:

![Example sentence](image)

The corresponding reflexive attenuates the manifestation of color and its perception. It is partial, or is visible through obstacles, or is unstable and runs the risk of disappearing.\(^{55}\)

![Example sentence](image)

To this type belong: зеленеть(ся) ‘become (show) green’, темнеть(ся) ‘become (show) dark’, синеть(ся) ‘become (show) blue’, краснеть(ся) ‘become (show) red’. In practice the reflexive forms are not frequent.\(^{56}\)

**Modal impersonal reflexives**: Some intransitives form a reflexive that treats its argument as a domain to which some attitude or inclination to perform an activity is ascribed, often an inclination that is negative or inhibited: (мне) не снится ‘it isn’t sleepy to me, I don’t feel sleepy’, не работается ‘doesn’t feel like working’, (не) хочется ‘it isn’t appealing to’.\(^{57}\)

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\(^{56}\) On the web (<01.XI.02>), non-reflexive past-tense forms of белеть outnumbered the reflexive forms by a ratio of 96 to 1, those of краснеть by a ratio of 153 to 1.

\(^{57}\) Mrázek 1971.
This type of reflexive verb is formed mostly from intransitives, and so the resulting valence is impersonal. But some verbs occur with a clause that has the role of an argument: хочется верить ‘one would like to believe’; думается, что ‘one is inclined to think that’; не верится, что нет тебя со мной ‘I don’t want to believe that you’re not here with me’. Хочется can even take a nominal argument: ничего ему уже не хочется ‘he no longer wants anything’; мне тоже хочется счастья ‘I also would like happiness’.

Quantifying reflexives: In combination with certain prefixes, the reflexive affix focuses on the quantity of the subject’s participation. The productive formations in на-…-ся – such as наеворитись ‘speak much, to one’s heart’s content’, наесться (добыться) ‘eat one’s fill’, наотухаться ‘rest fully’ – assert that the quantity of the subject’s participation reaches some limit of satisfaction or sufficiency:

Cnjkmrj jy gskb yfukjnfkcz yjxm/ How much dust he swallowed during the night!

The formation in раз-…-ся means intense involvement by the subject exceeding a norm ([293]), го-…-ся activity that leads up to a boundary signaling a change in the world ([294]):

In the presence of a stranger, she became thoroughly playful, merry, talkative.

Rodman again has fooled around [to that point that he has been] released from the Dallas Mavericks.

Intransitivized reflexives: The most productive function of the reflexive affix is to make intransitive verbs from transitive verbs. A transitive, by definition, has a subject (an argument responsible for change or imbalance) distinct from an object (an aspectual argument whose change or imbalance is reported). Detransitivized reflexive verbs formed from transitives lack a distinction of responsible and aspectual arguments. They report a change that befalls the sole participant: прекратиться ‘cease’, отвлечься ‘be distracted’, начаться ‘begin’, совместиться ‘coexist, overlap’, измениться ‘change’, ограничиться ‘be restricted’, улучшиться ‘get better’, сохраниться ‘be preserved’. The interpretation of individual verbs varies depending on whether the sole argument is inanimate, in which case the event is spontaneous ([295]), or animate, in which case the event can be

understood as instigated by the subject ([296]):

[295] Наступит мировая революция, и все шедевры вновь к нам вернутся.
Once the world revolution arrives, all the masterpieces will return to us.

[296] В конце августа мы вернулись в Москву.
At the end of August we returned to Moscow.

**Reflexive passives**: When, for a given verb, the roles of modal and aspectual argument cannot be understood as merged and the change is induced externally, the reflexive intransitive verb might be called “passive.” The passive sense of imperfective reflexive verbs presents an activity as a generic situation that is the property of the aspectual argument:

[297] У многих известных мне политзаключенных многие месяцы подряд
конфисковывались все письма.
Among many of the political prisoners I knew, all letters used to be confiscated for many months at a time.

In [297], the reflexive passive presents a static fact as a property of the letters – they persist in the state of inaccessibility; using the third plural (конфисковывали) here would focus on the active participation of the unnamed agents. Exceptionally, the responsible party is actually expressed in the instrumental case ([298]):

[298] Эти сигары курились моим дядей... всю жизнь.
These cigars used to be [were of the type that were] smoked by my uncle all his life.

The passive use is related to the detransitivizing function of reflexive predicates mentioned above, but differs in certain respects. The detransitivized reflexives presume that change can occur spontaneously without an external agent, and they are formed from both aspects: совместиться/совмещаться ‘be compatible with’, измениться/изменяться ‘change’, ограничиться/ограничиваться ‘be limited’. The passive sense presumes that change would not occur without an external agent (in [299], the room needs an agent to instigate ventilation), and it is only formed from imperfectives.

[299] Если в помещении много людей и оно длительно не проветривается,
содержание в воздухе угарного газа увеличивается.
If there are many people in a dwelling, and it fails to be aired out for a long time, the content of carbon dioxide in the air increases.

Since Fortunatov (1899), there has been an impulse to see a unity in the overall group of reflexive verbs: they have reduced valence.59 While there is

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59 For a notational account, see Babby 1975[b]; for a semantic account, see Schenker 1986.
some uniformity, there is considerable lexical diversity among reflexive verbs. There are recognizable groups that have distinct meanings and properties and different degrees of productivity (compare the productive intransitives such as успокоиться/успокоиваться ‘calm down’ with the residual true reflexives мыться or the restricted reflexive of proclivity собачь кусается).

5.8.4 Present passive participles

A present-tense passive participle is formed from the present stem of imperfective transitive verbs with the formant {-m-}, to which are added adjectival endings. These passives in {-m-} can be used as attributive modifiers (большинство произведений, тогда безуспешно хвагаемых ‘the majority of works, praised at that time without restraint’) or as predicatives, as in [300], which conjoints a present participle with a past passive participle:

[300] Хромосомы могут быть четко индивидуализированы и опознаваемы с помощью достаточно простых методов.

Chromosomes can be clearly differentiated and recognized through rather simple methods.

This construction belongs to technical, journalistic, or bureaucratic styles.

The suffix {-m-} forms derivatives that are used as ordinary adjectives, with a modal connotation of possibility or proclivity to be involved in an activity: неумолимый ‘implacable’ describes an individual who cannot be mollified; thus also любимый ‘beloved’, невообразимый ‘unimaginable’, неисправимый (оптимист) ‘incorrigible (optimist)’, невозвратимый ‘ineluctable’, незабываемый ‘unforgettable’. These derivatives can be formed from perfectives as well as imperfectives: невозмутимый ‘imperturbable’ from возмутить ‘bother, perturb’.

5.8.5 Past passive participles

Past passive participles, or simply passive participles, are formed from the past-infinitive stem of perfective verbs by means of a formant ({-n-} or {-н ∼ iн} or {-t-}), to which adjectival endings are added. As a verbal adjective, the passive participle can be used in the positions in which one expects to find adjectives: as a preposed attributive modifier ([301]), as a postposed modifier ([302]), or as a predicative in a transitive construction ([303]):

[301] <...> в строго регламентированном объеме
   <...> in a strictly regimented volume
[302] <...> со своими двумя братьями, тоже осужденными по тому же делу
   <...> with his two brothers, who were also sentenced in the same matter
[303] По перрону его провели скованым наручниками с охранником.
   They led him along the platform bound with handcuffs with a guard.
But above all, the passive participle is used as a predicative with be. The participle is the predicating element, and it agrees with the subject (книга in [304]):

[304] Книга, <fem sg> «Рыцари Круглого стола» оставлена, <psv fem sg> в Москве.

The book Knights of the Round Table got left in Moscow.

As in other predicative constructions (§5.2), the participial passive distinguishes three tenses; no overt forms of be are used in the present. Because perfectives have only two tenses but predicative constructions distinguish three, the participial passive cannot be derived simply by transforming an active sentence structure into a passive one.60

In some respects the predicative construction with a passive participle is not entirely analogous to a predicative construction with an adjective. The sole argument of a passive participle can be affected by quantifying operations, such as the genitive of negation ([305]) or approximate quantification ([306]).61

[305] Нам объявили, что никаких полевых нагрузок, <gen> не положено, <psv>.

We were informed that no extra pay for being in the field had been established.

[306] Было расстреляно, <psv> человек сорок.

There were shot some forty people or so.

Such constructions with adjectives are inconceivable (*никаких полевых нагрузок не высоко [as if: 'no field salary was high']; *было жить и здорово человек сорок [as if: 'were hale and hearty some forty people']. Unlike predicative adjectives, then, passive participles tolerate quantification, and the subject of a passive is not necessarily individuated.

When is the predicative construction with a passive participle used? Passive participles describe states that characteristically result from prior perfective events. In context, the idea that a specific event is the source of the current state can be more or less prominent. Often, in descriptions of scenes, no specific event is understood to be the source for the state, though the subject has a property that characteristically arises from an event ([307]). Sometimes, however, the state can be understood to derive from a specific event ([308]):

[307] Земля, воздух, месяц, звезды скованы, <psv> вместе, склепаны, <psv> морозом . . .

The earth, air, moon are forged together, riveted by frost . . .

[308] Все вышли проводить его в прихожую, поцеловались. Он ушел. На другой день С. Ковалев был арестован.

We all accompanied him out, took leave. He left. On the next day S. Kovalev was arrested.

61 Lobanova 1975.
Table 5.14 Properties of passives and near-passives

<table>
<thead>
<tr>
<th>expression of agent</th>
<th>view of event</th>
<th>reflexive imperfective passive</th>
<th>perfective passive participle</th>
<th>non-specified third plural</th>
</tr>
</thead>
<tbody>
<tr>
<td>extremely rare (3%)</td>
<td>repeated activity</td>
<td>(конфисковывались, проветряется)</td>
<td>(уволены, разорван)</td>
<td>(схватили, увезли, грозили, за ней наблюдают)</td>
</tr>
<tr>
<td>rare (9%)</td>
<td>event presented as stative resultative property of patient/subject</td>
<td></td>
<td></td>
<td>responsible agent asserted to exist, but remains unnamed</td>
</tr>
</tbody>
</table>

Common to all uses of the passive participle is that a potential event is presented as a static property of the subject. Accordingly, the passive participle is used in description or summary rather than narrative (as in [309]). The unspecified third plural, in contrast, presents a pure event – in [310], one event in a narrative series.

[309] Более половины их оказались нарушителями дисциплины. Многие из них уволены за прогулы. More than half of them turned out to be violators of discipline. Many of them were removed for absenteeism.

[310] Замешанные в "дело" вызывались на допросы, им угрожали. Одного из них присудили к принудительным работам. Нескольких уволили. Those who were mixed up in the “affair” were called in for interrogation, they threatened them. They sentenced one of them to forced labor. They removed several from work.

5.8.6 Passives and near-passives
Use of passive and near-passive constructions is summarized in Table 5.14.

5.9 Agreement

5.9.1 Basics
Finite verbs agree with their subjects. Verbs express gender–number in past-tense forms and person–number in present-tense forms (including the present-tense forms of perfective verbs). In [311], the past-tense verb is feminine, in agreement with the overt subject, a feminine singular noun.

62 See Crockett 1976, Corbett 1979[a], Corbett 1983[a], 1983[b], 1988[b], Robblee 1993[b].
Grandma Iulia left for Paris.

If the subject is not expressed as an overt argument phrase, the predicate expresses the features of the implicit referent of the subject, as in the continuation of [311] as [312]:

<...> and lived there for more than ten years.

If the sentence is impersonal – that is, lacks the possibility of a subject – the verb appears in the neuter in the past ([313]) or in the third-person singular in the present ([314]) and future:

Nausea overcame me, I hardly made it home.

I'm overcome by nausea, I won't make it home.

5.9.2 Agreement with implicit arguments, complications

Agreement is largely without problems in Russian, but there are some contexts of interest.

Collectives: Subjects that are nouns cause little uncertainty. Even singular nouns with collective sense elicit singular number, with the gender appropriate for the noun (FEM SG for команда in [315]):

The team was quite strong and well-prepared.

The subsequent context maintains the singular number (предготовлена) unless the individual members of the collective are explicitly named (for example, игроки ‘players’). Plural is not used in Russian, unlike in varieties of English: The Barcelona player said his side were not prepared for the vociferous support given by Korean fans.

Implicit gender of personal pronouns: When the subject is a first or second person, a past-tense verb reflects the gender of the referent of the pronoun, though the pronouns themselves do not distinguish gender:

You cannot imagine what good news you’ve given me.
**Universal second-person singular**: Second-person singular agreement in the predicate is used without any overt subject noun phrase in a universal sense of any possible addressee:

[317] После войны я узнал, что был там устроен лагерь для заключенных. Да, место выбрали подходящее — глушь, бездорожье, кругом леса и болота. Не убежишь.

After the war I learned that a prison camp had been built there. Yes, they picked a good place — wilderness, no roads, nothing but forests and swamps all around. You won’t escape.

**Formal second-person plural**: The second-person plural pronoun вы is used in formal address to a single individual (the formal “B-form”: §4.6). In agreement with formal вы, verbs are second-person plural, and predicative (“short”) adjectives are plural ([318]):

[318] – Ирина, вы молоды, красивы, много играете и, наверное, ощущаете себя достаточно комфортно.
– Irina, you are young, beautiful, you get many roles, and no doubt you live rather comfortably.

Used as predicatives, long-form adjectives reflect the referential gender and number of the subject — singular when a single person is addressed by formal Б, even as the verb is plural.63

[319] Почему же вы были {такой грустный, такая грустная}? Why indeed were you such a sad one?
[320] Вы {первый, первая} начали. You started it first.

Other predicatives, such as певерный ‘first’ ([320]), are likewise singular if the addressee is singular ([320]). If the addressee is plural, predicatives are plural: вы певерные начали ‘you (all) started it first’.

5.9.3 Agreement with overt arguments: special contexts

With overt subject arguments, agreement is unproblematic most of the time: singular agreement is used with a singular noun, plural with plural. Complications arise in three contexts. All three contexts have subject phrases that could be understood as referring to multiple entities. Though there are differences among the three contexts, there are also general principles that apply to all

63 Comrie 1975:408, 410.
three. In general, singular agreement in these contexts indicates that the group of elements is understood as a whole, as a unit, and the fact of the existence of some number of things is more significant than the activities of the individuals involved. Plural agreement means that the elements that make up the group are viewed as potentially distinct individuals. At the level of the argument phrase, animates are more likely to be individuated, and occur with plural, than inanimates; abstract nouns are unlikely to be individuated, and unlikely to trigger plural agreement. At the level of the predicate, since existential predicates are interested in the fact of existence, they are more likely to occur with singular agreement than individuating predicates such as transitive verbs or predicative constructions. At the level of discourse, the word order in which the subject is postposed is the order used for establishing the existence of a situation. Accordingly, a verb that precedes its subject is more likely to have singular agreement than a verb that follows its subject.

The three specific contexts are the following.

5.9.4 Agreement with conjoined nouns
With noun phrases composed of two or more conjoined singular nouns, the verb can appear in either the singular or the plural. (If any of the conjoined nouns is plural, agreement is plural.) As can be seen from Table 5.15, plural agreement is preferred with nouns that refer to animates. Also, plural agreement is usual when the subject precedes rather than follows the verb, as is especially visible with conjoined nouns referring to inanimates.

When variation is possible, plural is appropriate when the conjoined elements are distinct entities, and the predicate is independently valid for each. Entities can be distinct if they are different kinds of things (\[321\]) or two distinct individuals of one type (\[322\]):

\[321\] Поразили<pl> его красота<fem sg> и затейливость<\fem sg> резьбы.
The charm of the huts and the intricacy of the carving amazed him.

64 Corbett 1983[b]:181. For conjoined nouns, Corbett 2000:207 cites 67 percent plural agreement in literature, 96 percent in press (there without differentiating animacy or word order).
[322] Ее собственная жизнь, и жизнь века складывались таким образом, ...
Her own life and the life of the era had taken shape such that ...

Singular agreement assumes that the elements are not distinct and are intrinsically associated; the predicate applies to all the elements together. The entities can amount to a higher order abstraction – life and reason together define a universe ([323]):

[323] Внутри каждого электрона спрятана вселенная, где существует жизнь и разум, как в нашей.
In each electron is hidden a universe, where there exists life and reason just as in ours.

Or one element can be understood as a concomitant of the other:

[324] остались жена и мальчик.
[After he died] there remained his wife and boy.

Or two abstract ideas are (nearly) synonymous:

[325] Наступил успокоение и душевная тишина.
There came a calm and spiritual quiet.

When singular agreement is used in the past tense, thereby expressing gender, the question arises as to which noun supplies the gender. It depends in part on word order. When the subject precedes the verb, as in [326], gender can be taken from either the first noun, which is typically the more significant, or from the second, which is nearer to the predicate.

[326] Проектирование и подготовка к строительству заняло едва ли не 15 лет.
The planning and preparation for construction took up virtually fifteen years.

Almost fifteen years were taken up by the planning and preparation for construction.

When the subject follows ([327]), the gender of the verb is that of the first conjunct, which is both more significant and closer to the verb.

If pronouns of different persons are conjoined, first person outranks second (я и ты сейчас едем) and either outranks third (я и он сейчас едем) and you and he are just now going).
5.9.5 Agreement with comitative phrases
To talk about two people acting together, Russian can use either of two constructions. Two nouns can be conjoined: Ольга и Вадим. Or one entity can be made more prominent and the other attached to it by means of the comitative preposition с ‘with’: Ольга с Вадимом ‘Olga with Vadim’, Федор Иванович с женой и двумя мальчиками ‘Fedor Ivanovich with his wife and two boys’. When one of the conjuncts is a pronoun, there are three options: conjunction, он и Влад ‘he and Vlad’, я и моя сестра Маша ‘I and my sister Masha’; a comitative construction with a singular pronoun, он с Владом ‘he with Vlad’, я с Машей ‘I with Masha’; or a comitative construction with a plural pronoun, они с Владом ‘they, including Vlad’, мы с Машей ‘we, including Masha’.

True conjunction emphasizes that the individuals are separate and parallel. It is very likely to take plural agreement. With pronouns the comitative constructions are more usual, and the plural form is preferred. With third-person pronouns, the plural они с женой was used in 69 percent of tokens; with first-person pronouns, though the singular is possible (Так и вернулся я с женой ‘and so I returned with my wife’), the plural form мы с женой is by far the more usual (88%).65

When the pronoun is plural, a verb that agrees will obviously be plural: они с Владом ходили к ней учиться английскому языку ‘they – he and Vlad – used to go to study English with her’, мы с Машей ходили к ней учиться английскому языку ‘we – Masha and I – used to go study English’. But with a singular pronoun (or noun) in the comitative construction, either singular or plural agreement in the verb is possible.66 Plural is appropriate: if the individuals are known; if they act separately but in parallel; and if the new information is the way in which the activity proceeded:

[328] Брат с сестрой всё делали с улыбкой.
Brother and sister did everything with a smile.

[329] В его комнате не были настелены полы, и он с женой прыгали с балки на балку.
In his room there were no floorboards, and he with his wife hopped from beam to beam.

Singular is appropriate when the participation of the comitative noun is secondary and incidental relative to the participation of the first ([330]), and if attention is focused on the fact that the event took place at all ([331]).

[330] И ей не нравился рассказ Сережи о том, как он с Владом ходил в психиатрическую клинику.
She also didn’t like Serezha’s story of how he went with Vlad to the psychiatric clinic.

Overall, singular and plural are about equally likely with subject comitative phrases.67

5.9.6 Agreement with quantifier phrases
When the subject is a quantifier phrase, the verb can appear in either the (neuter) singular or plural. The singular presents the subject as a mass of undifferentiated things, and the fact that a certain quantity exists is more significant than the activities of the entities making up the group. Accordingly, singular is appropriate: with inanimate entities that are not known as individuals; with large or approximate quantifiers; with predicates that are existential; and with the word order in which the subject follows the verb (the word order used to present the world as a holistic situation). Note the shift in agreement and word order in [332]:

\[332\] В пляску вступило множество жонглеров. Множество жонглеров кидают десятки тысяч шаров, летящих к нам один за другим.

A group of jugglers broke into dance. A group of jugglers is tossing tens of thousands of balls that fly to us one after another.

Conversely, using the plural reports a property of entities that can be differentiated as distinct individuals. Plural is then favored: by small quantifiers; by individuating predicates – those that report properties that can be ascribed to individuals (rather than predicates that report the existence of situations); and by the word order in which the subject precedes the verb (as in [332]). Plural is likely to be used if the entities are known already or are identified in the subsequent context.

The choice of number is especially sensitive to the semantics of predicates, following the hierarchy of predicates from existential to transitive and predicative. With paucal numerals (два, три, четыре), usage is that of Table 5.16.

As in Table 5.16, paucals prefer plural with most predicates. Singular, used primarily with existential predicates or verbs of position and motion, is reserved for contexts that do no more than present a scene; thus the singular in Table 5.16(c) presents three small houses on the banks of the Volga as part of a traveler's view of a certain town. Plural is used if there is any discussion of the individual entities in the following context; as, for example, the three reasons in Table 5.16(a) and the three photos in 5.16(c).

Usage with approximate quantifiers is illustrated in Table 5.17. Approximate quantifiers use singular with all predicates except transitives and predicatives.

67 Corbett 2000:207 cites 44 percent plural in literature, 50 percent in press.
Table 5.16 Agreement with paucal numerals

<table>
<thead>
<tr>
<th>predicate type</th>
<th>paucal quantifier: examples</th>
</tr>
</thead>
<tbody>
<tr>
<td>(a) existential</td>
<td>На Спиридоновке было три комнаты. 'At Spiridonovka there were three rooms.'</td>
</tr>
<tr>
<td></td>
<td>К тому были три причины. первая 'For that there were three reasons. The first reason'</td>
</tr>
<tr>
<td>(b) weak existential</td>
<td>На следующий день явились еще две семьи. 'The next day there appeared two more families.'</td>
</tr>
<tr>
<td>(c) position/motion</td>
<td>На правом берегу волги стояло две-три домика. 'On the right bank of the Volga there stood two or three little houses.'</td>
</tr>
<tr>
<td></td>
<td>На стенах висели три фотографии – дочери Ксении, сыновей Бориса и Юрия. 'On the walls hung three photos – of daughter Kseniia and sons Boris and Iury.'</td>
</tr>
<tr>
<td>(d) reflexive</td>
<td>За стенами высывались две-три главки белых церквей. 'Beyond the walls there protruded two or three tops of white churches.'</td>
</tr>
<tr>
<td>intransitive</td>
<td>Три монахи отдыхают под елью. 'Three monks are resting under a fir.'</td>
</tr>
<tr>
<td>(e) intransitive</td>
<td>Так были созданы три международные организации. 'And so three international organizations were set up.'</td>
</tr>
<tr>
<td>(f) passive participle</td>
<td>Заняли очередь две тети, с виду рыночные торговки. 'Two women, by appearances market women, took places in line.'</td>
</tr>
<tr>
<td>(g) transitive</td>
<td>Три его шафера тоже были грузины. 'His three attendants were also Georgians.'</td>
</tr>
<tr>
<td>(h) predicative</td>
<td></td>
</tr>
</tbody>
</table>

Table 5.18 summarizes the general preferences for paucals and approximate quantifiers. Lower general numerals (пять ‘five’, восемь ‘eight’, двадцать ‘twenty’, тридцать ‘thirty’, etc.), not exemplified, are intermediate. Shading marks the areas of active variation.

Table 5.18 suggests something of the way in which specific quantifiers and predicate semantics interact. In terms of predicates, transitives and predicatives presume that their subjects are individuated, and are likely to take plural agreement. At the opposite extreme, existentials and weak existentials take singular agreement. In between, verbs of motion and position and reflexive intransitives are sensitive to the quantifier involved, and they can be quite variable in their interpretation, ranging from an existential interpretation (в комнате в густом дыму сидело несколько человек ‘in the room in thick smoke there were sitting several people’), in which singular is used, to real activities, in which plural is more appropriate (поднялись на второй этаж несколько человек ‘went up to the second floor several people’).
Table 5.17 Agreement with approximate quantifiers

<table>
<thead>
<tr>
<th>predicate type</th>
<th>approximate quantifier: examples</th>
</tr>
</thead>
<tbody>
<tr>
<td>(a) existential</td>
<td>В Богородицке было_{SG} несколько врачей.</td>
</tr>
<tr>
<td>'In Bogoroditsk were several doctors.'</td>
<td></td>
</tr>
<tr>
<td>(b) weak existential</td>
<td>Одновременно прибыло_{SG} несколько эшелонов.</td>
</tr>
<tr>
<td>'Simultaneously there arrived several echelons.'</td>
<td></td>
</tr>
<tr>
<td>(c) position/motion</td>
<td>Там сидело_{SG} много женщин, были обвиняемые в спекуляции.</td>
</tr>
<tr>
<td>'There many women were sitting, they were accused of speculation.'</td>
<td></td>
</tr>
<tr>
<td>(d) reflexive intransitive</td>
<td>Много парней вокруг нее уивиалось_{SG}.</td>
</tr>
<tr>
<td>'Many fellows were hanging around her.'</td>
<td></td>
</tr>
<tr>
<td>(e) intransitive</td>
<td>У двери несколько человек подслушивало_{SG}.</td>
</tr>
<tr>
<td>'At the door several people were eavesdropping.'</td>
<td></td>
</tr>
<tr>
<td>(f) passive participle</td>
<td>Несколько переводчиков было_{SG} арестовано_{SG}.</td>
</tr>
<tr>
<td>'Several interpreters were arrested.'</td>
<td></td>
</tr>
<tr>
<td>(g) transitive</td>
<td>Много русских людей оставили_{PL} после себя воспоминания.</td>
</tr>
<tr>
<td>'Many Russians left memoirs after their death.'</td>
<td></td>
</tr>
<tr>
<td>(h) predicative</td>
<td>Несколько секвой остались_{PL} живыми свидетелями двадцатого века.</td>
</tr>
<tr>
<td>'Some sequoias have remained living witnesses of the twentieth century.'</td>
<td></td>
</tr>
</tbody>
</table>

'several people went up to the second story'). Intransitive verbs tend to an activity interpretation, but an existential interpretation is also possible for some predicates (тыга ходило_{SG} много бабушкиных знакомых 'many of Grandma’s acquaintances used to go there').

Each quantifier has a characteristic usage. Paucals treat entities as individuated, with plural agreement in the predicate; singular is used regularly only with existential predicates. Approximate quantifiers discourage an individuated interpretation, and use singular with most predicates except transitives. Large round numerals (сто, тысяча) are similar. Other numerals are intermediate. Numerals larger than paucals – from пять through the low decades – are close to paucals, but use singular agreement more freely.

Certain specific contexts prefer one or the other interpretation. The modifiers акé and °тн before the quantifier presuppose that the members of the group are known as individuals, and require plural agreement. Constructions with distributive не as subject strongly prefer singular, since the quantity is of primary interest (§4.3.11). Expressions of the passage of time (years, seconds, months) are viewed as a mass, and use singular agreement.
Table 5.18 Predicate type and predicate agreement: quantifier subject

<table>
<thead>
<tr>
<th>predicate type</th>
<th>paucal numeral</th>
<th>low general numeral (восемь, двадцать, etc.)</th>
<th>approximate quantifier</th>
</tr>
</thead>
<tbody>
<tr>
<td>(a) existential, modal</td>
<td>SG ≈ PL</td>
<td>SG</td>
<td>?PL</td>
</tr>
<tr>
<td>(b) weak existential</td>
<td>±SG</td>
<td>PL</td>
<td>SG</td>
</tr>
<tr>
<td>(c) position/motion</td>
<td>?SG</td>
<td>PL</td>
<td>±SG &lt; PL</td>
</tr>
<tr>
<td>(d) reflexive intransitive</td>
<td>*SG</td>
<td>PL</td>
<td>±SG &lt; PL</td>
</tr>
<tr>
<td>(e) activity intransitive</td>
<td>*SG</td>
<td>PL</td>
<td>*SG</td>
</tr>
<tr>
<td>(f) passive participle</td>
<td>*SG</td>
<td>PL</td>
<td>*SG</td>
</tr>
<tr>
<td>(g) transitive</td>
<td>*SG</td>
<td>PL</td>
<td>*SG</td>
</tr>
<tr>
<td>(h) predicative</td>
<td>*SG</td>
<td>PL</td>
<td>*SG</td>
</tr>
</tbody>
</table>

5.10 Subordinate clauses and infinitives

5.10.1 Basics
Infinitives, adverbial participles (деепричастия), and adjectival participles are less articulated than finite predications, in two respects: morphologically, they do not inflect for the full range of tense and mood as finite predicates, and syntactically, they cannot have their own nominative subject in the clause. The implicit subject is (usually) understood to be the same as some major argument of the main predicate. Each type of non-finite form has a distinct occurrence and function. Adjectival participles act as adjectives (§4.4.3).

5.10.2 Finite clauses
Finite clauses introduced by conjunctions can be used in a wide range of functions that correspond approximately to arguments, in the extended sense used here (§5.1). Clauses introduced by когдá ‘when’, если ‘if’, покá (не) ‘until’, в то время ‘(at a time) while’, function as adverbial arguments (on tense: §6.3.2). Clauses introduced by что (or under more specialized circumstances, чтобы ‘in order to’) report the content of speech and analogous mental operations of thought, belief, memory. Such clauses can have a role analogous to that of the subject ([333]) or to that of the object ([334–35]):

[333] Мне было досадно, что мой двоюродный брат со мной не играл.
It was annoying to me that my cousin did not play with me.

[334] Вскоре рабочие поняли, что работают они, в сущности, бесплатно.
Soon the workers understood that they were working, in essence, for no pay.

[335] Он добавил, что против нас есть один весьма существенный пункт.
He added that there was one very substantive point against us.
And in other instances, the clause has a role analogous to that of an oblique argument, a relation often marked by a placeholder demonstrative in the main clause:

[336] Мой брат Владимир гордился (тем), что был похож на своего дядю.
My brother Vladimir was proud of the fact that he was similar to his uncle.

[337] А в чем признаются? В том, что хозяин лжерателей их эксплуатировала.
And in what should they confess? In the fact that the manager of the pseudo-guild had been exploiting them.

The placeholder is more or less frequent depending on the verb: гордился тем, что ‘[he] took pride’ 205/308 xx = 67 percent but удивился тому, что ‘[he] was surprised’ 157 / 726 xx = 22 percent, сомневаясь в том, что ‘I doubt’ 124 / 1914 xx = 6 percent.68 Modal arguments introduced by prepositions, however, require the demonstrative: Курникова подает иск на Penthouse за то, что полуобнаженной сняли не ее ‘Kurnikova is suing Penthouse for the reason that they photographed someone else half-naked’.

Finite clauses can be attached to event nouns ([338]):

In the newspapers there began to appear articles [saying] that the free market – that was a petty bourgeois belch.

In these finite subordinate clauses, the most widely used conjunction is что ‘that’ (tense in reported speech: §6.3.3). Among the kinds of “reported speech,” in the broad sense, are indirect questions, which have the same form as other questions that are not subordinated.

5.10.3 Adverbial clauses and adverbial participles (геепричастия)
Adverbial participles are the predicates of clauses that function as adverbial arguments.69 They lack an overt subject, but are understood to have an implicit subject that corresponds to a known entity, almost always the subject of the main predicate (in [339], мать):

[339] А моя мать, убедившись, что ее дети хорошо устроены, со спокойной душой вернулась в Москву.
And my mother, having become convinced that her children were well settled, returned with a calm heart to Moscow.

68 Site www.libr.ru <10.X.02>.
69 The issues of "control" (matching the implicit subject to an argument of the main clause) and exceptions to the usual relationship have long been a concern: Babby 1975[c], Babby and Franks 1998.
Sentences are sometimes cited in which the implicit subject of the adverbial participle (indexed “<j>”) corresponds to a significant argument of the main predicate other than the subject: the unexpressed (or “∅”) dative domain of a modal ([340]), the domain of an experiential predicate ([341]), the passive agent ([342]), or even direct objects of verbs of emotion ([343]):70

[340] Целуясь, ∅₃DAT можно бесконечно признаваться в любви без слов.
Kissing, it is possible to constantly declare one’s love without words.

[341] Слушая, этот рассказ, мне было страшно.
Listening to the story, it became terrifying to me.

[342] Развивая навыки вождения, водителями будут изучаться меры предосторожности.
While [they are] developing driving techniques, safety measures will be learned by drivers.

[343] Войдя в комнату, Коля поразил беспорядок.
On entering the room, the disorder astounded Kolia.

It is difficult to determine the status of such sentences. They are cited by linguists (including Russian speakers) as “grammatical”; sometimes differences in acceptability are mentioned. (Those in which the argument is the dative domain of a modal predicate with a dependent infinitive, as in [340], are the most acceptable.) Yet such sentences are infrequent in texts, and many educated speakers do not consider them standard.

While the adverbial participle itself does not show agreement, a predicative or appositive in the clause reflects the gender and number of the implicit subject (фем sg in [344]):

[344] Женщины освободились, каждая из них вернувшись взволнованной к своей семье.
The women were freed, each returning agitated to her own family.

And reflexive pronouns within the clause refer to the implicit subject (своий in [344]).

The events of adverbial participles are understood to occur in time-worlds contiguous with those of the main clause. In [345], the speaker’s return occurs at the same time as the return, and is caused by the return; in [346], the expectation is embedded in the same time-world as the approach.

[345] Вернувшись с войны, я твердо решил стать писателем.
On returning from the war, I firmly decided to become a writer.

70 Itskovich 1974 ([342]), Yokoyama 1980, Rappaport 1980 ([341]), Legendre and Akimova 1994 ([343]), and Kazenin 2000 cite examples of adverbial participles not antecedced by the subject of a finite predicate.
As I approached the gate, every second I expected to hear the shout: “stop!”

5.10.4 The free infinitive construction (without overt modal)

In general, infinitives lack overt subjects but are interpreted as having an implicit subject. Infinitive clauses are generally attached to main predicates (though not always), and the subject of an infinitive can often be identified with a major argument of the main predicate. Infinitives present events with a modal coloring, as possible or desired or imposed.

An exception to the rule that infinitives are attached to matrix predicates is the dative-with-infinitive construction, or, since there is no main finite predicate, the free infinitive. This construction is responsible for some of the most famous apodictic pronouncements of older Russian:

Igor’s brave regiment is not to be resurrected.

And two Romes have fallen, while the third still stands, and a fourth is not to be.

The construction, as a syntactic idiom, has a strong modal sense. Among other values, it can predict an inevitable result or, when negated, the impossibility of an event (as above). The dative is the goal of the modality and, implicitly, the subject of the infinitive (in [348], it is incumbent on the fourth Rome never to exist). The infinitive itself is not dependent on any overt matrix predicate – the construction as a whole has modal value. Indeed, it is not clear how to reconcile this construction with contemporary models of syntax that derive constructions by composition of elements.

The construction illustrated above still occurs in the modern language; the modern Russian translations of [347] and [348] use the free infinitive construction, and other examples are found in modern Russian:

It is for me, Tanya, to burn in the fire of Gehenna.

But in general, it’s not for me to judge in these matters.

But this construction is used less pervasively than in earlier times; constructions such as [349–50] have an epic ring to them. The free infinitive is still used freely in decrees:

71 See now Fortuin 2000 for a comprehensive treatment of the construction.
On the following day there appeared a new law: those accused of terrorism were to be judged quickly, the process to be finished within ten days.

Is there still one of those aristocratic spoons. If one were to put it into one's mouth, one senses the unpleasant taste of copper.

And where can one get the materials and the money?

The construction is stylistically neutral and extremely frequent in conditions and questions ([352-53]). A search for the phrase Как попасть 'How can one reach' produced an impressive 19,400 hits on the web (<10.X.02>).

5.10.5 The free infinitive construction (with negative existential pronouns)
As a specialized development, infinitives can be used with interrogative-indefinite pronouns to establish the existence of a possible entity that would fit in the event ([354]):

Теперь в церкви (было) служить некому.
Now to hold services there is (was) no one.

Only the pronoun carries negation. The infinitive and be (when it is used) are not negated.

As in other instances of the free infinitive, the implicit subject of the infinitive is often universal in reference and omitted ([354]), but can in principle be expressed as a dative ([355], [356]). As in other instances of the free construction, the time reference is likely to be universal and present, but other tenses can be formed by using the appropriate past or future form of be. The present tense of the positive construction with indefinite-interrogative pronoun uses éstъ, but the negative existential construction has no trace of be.

5.10.6 The dative-with-in infinitive construction (overt modal)

From the historical source of the free dative-with-infinitive construction with no overt matrix predicate has developed the use of the infinitive with certain non-verbal predicates: надо ‘necessary’, можно ‘possible’, возможно ‘possible’, нельзя ‘impermissible, impossible’. As in the free infinitive construction, the implicit subject can be expressed in the dative, by virtue of being the goal of modality of the main predicate.

If no dative argument is overt, the modality is understood to apply to any or all people; in anyone could write such a story:

The infinitive is tightly bound with these non-verbal predicates; thus negation of the main predicate (нельзя ‘not permissible, impossible’) used to elicit the genitive in a transitive infinitive, though that usage has now faded except with emphatic negative pronouns:

This construction can be formed with the neuter singular predicative (short) form of a variety of adjectives that comment on the modality of the event in a weaker form, by evaluating its desirability for someone (хорошо ‘it’s good for one to’) or its difficulty (трудно ‘it’s difficult for one to’), and so on. A variation
on this construction is used with a set of “occasional” verbs, that is, with verbs that talk about the occurrence or success of an event against the expectation that the event might not occur: уда́ться ‘succeed in’, пове́зти ‘be fortunate to’, прийти́сь ‘have occasion to’.

With нáдо ‘necessary’ and нельзя́ ‘not permissible’, the attached clause can be finite (subjunctive with чтобы) if what must be is a whole event not under the control of the argument in the main clause:

[362] Нельзя, чтобы они становились жертвами.
It is impermissible that they should become victims.
[363] Обязательно надо, чтобы музыка была.
It’s absolutely necessary that there should be music.

Мóжно ‘possible’ prefers infinitives.

5.10.7 Infinitives with modal hosts (nominative subject)
The most versatile modal in Russian is the verb (c)мóчь ‘may, might, can’. Russian uses an old adjective дóлжен ‘obligated’ (должнá, должнó, должнý) with an infinitive to express obligation. These modals differ from the impersonal modals exactly by making the responsibility personal, whereas the impersonal modals present obligation as universal, even if in a particular case it is directed to the dative domain (§6.2.8).

5.10.8 Infinitives with hosts of intentional modality (nominative subject)
A variety of verbs talk about an individual who tries to create a state of the world that does not exist. The host verbs characterize various attitudes with respect to changing the world: volition (хóтеть ‘want’, решить ‘decide to’), attempt (стараться ‘try’, пытаться ‘make an attempt’, стремиться ‘strive’), success (посчастливиться ‘have the good fortune’, ухитриться ‘to be clever enough’), or habit (любить ‘love’, предпочитать ‘prefer’).

[364] Я решил сделать прессконференцию.
I decided to hold a press conference.

The individual who formulates the desire is the individual who will accomplish the event.

The infinitive is moderately cohesive with the main predicate. Negating the main verb once used to evoke the genitive in the object of the infinitive, but no longer. As a rule, intending or attempting to create a world is a perfective event ([364], сгёлать<прг>). Habits, however, are imperfective (§6.5.9).

If the individual responsible for creating the new world is not the same as the individual who wills the creation, the conjunction чтобы is used.
Russian has no construction similar to the English “raising” construction: corresponding to His parents did not want him to leave, there is no *Родители не хотели его уехать.

5.10.9 Infinitives with aspectual hosts (nominative subject)
Infinitives are used with a small set of predicates that describe transitions in the status of an activity – beginnings (начать|начинать ‘begin’, стать|становиться ‘get involved in’), continuations (продолжить|продолжать ‘continue’), endings (кончить|кончать ‘end’, перестать|переставать ‘stop’). The infinitives are always imperfective. Historically, the future imperfective with бы́ть, etc., is of the same type.
An unusual construction that may be related is the use of an imperfective infinitive with a nominative subject but without any overt host predicate. The construction is used in stylized imitations of folk style, such as the doggerel about the bee in [366]:

[366] Был на пасеке у деда,  Once at grandpa’s beehive
Там увидел я злореду I saw an evildoer
Я бежать – она за мной I take to running – she, after me
И подруг зовет с собой Calling her friends to come

The construction suggests an action closely related to other narrative events that is attempted but incomplete (as is the escape in [366]). Because the infinitive is imperfective, it is likely that the construction developed historically from an aspectual construction by eliding the host predicate (whether стать, бы́ть, дать, or another host can no longer be determined), but by now it is a distinct, albeit stylistically and pragmatically quite idiosyncratic, construction.

5.10.10 Infinitives with hosts of imposed modality (accusative or dative object)
Another construction involving infinitives is that in which the subject of the host predicate transfers modality (obligation, possibility) to another individual, who is put under the obligation, or given the opportunity, to carry out the event. There are two types. The event can be imposed on or permitted of an individual expressed as the dative: дать|дать ‘give, let’, приказать|приказывать ‘give an order’, велеть ‘order’, позволить|позволять ‘allow’, предложить|предлагать ‘offer’:

[367] Мне дали позволили приказали выезжать во Владимир в ту же ночь.
Table 5.19 Types of infinitive constructions

<table>
<thead>
<tr>
<th>implicit subject of infinitive = argument of main predicate</th>
<th>dat domain</th>
<th>nom subject</th>
<th>nom subject</th>
<th>dat goal</th>
<th>acc object</th>
</tr>
</thead>
<tbody>
<tr>
<td>modality: necessary</td>
<td>necessity directed to goal</td>
<td>obligation/possibility as function of subject</td>
<td>subject intends to create world</td>
<td>subject imposes obligation (possibility) of creating world</td>
<td>subject imposes obligation (possibility) of creating world</td>
</tr>
<tr>
<td>cohesion of infinitive with main predicate: close</td>
<td>close</td>
<td>intermediate</td>
<td>loose</td>
<td>loose</td>
<td></td>
</tr>
<tr>
<td>finite variants: (чтобы)</td>
<td>—</td>
<td>чтобы</td>
<td>чтобы</td>
<td>чтобы</td>
<td></td>
</tr>
</tbody>
</table>

They ordered me to leave that very night for Vladimir.

Or the individual can be affected by the imposition of obligation (possibility, invitation), and the argument is expressed in the accusative: заставить/заставить ‘force, make’, (н)просить ‘ask’, убедить/убеждать ‘persuade’, побудить/побуждать ‘incite’, пригласить/приглашать ‘invite’.

[368] Она заставила меня приобрести книжку сказок.

She asked me to get a book of tales.

In such constructions, the infinitive is loosely attached to the main predicate. Since there are in effect two subjects, reflexives can in principle refer either to the implicit subject of the infinitive (in reference, the same as the dative goal or the accusative object) or to the matrix subject (§4.7.9). The imposed event is likely to be viewed as a potentially complete event, not merely an activity, and
the perfective is usual in the infinitive. Negating the main verb will not evoke the genitive in the object of the infinitive.

Many verbs that describe acts of speech can be used to impose an order on someone else, by using the conjunction чтобы ([369]):

[369] Утром мать сказала ему, чтобы он уходил.
In the morning mother told him that he must leave.

[370] Мать успела шепнуть тете Саше, чтобы отец ни в коем случае не шел.
Mother had time to whisper to Aunt Sasha, that under no circumstances should father go.

5.10.11 Final constructions

Infinitives are used in final constructions, to name the intended result of an activity. Final infinitives are normally preceded by чтобы or the more explicit для того, чтобы.

[371] Молчи, чтобы дружбу не потерять.
Be quiet, so as not to ruin our friendship.

In final constructions, there is normally an agentive subject in the main predicate that wills and controls the eventual, final, result. Final constructions can have чтобы and a finite predicate, if the implicit subject of the final predicate is not the agent of the main predicate:

[372] Двое раненых попросили, чтобы их койки подвинули поближе к окнам.
Two of the wounded asked that their cots be moved up closer to the windows.

While infinitives can be used in English as relative clauses, as in a difficult role to perform, they cannot in Russian: *трудная роль исполнить [as if: ‘a difficult role to fulfill’]. Infinitives can, however, be attached to modal nouns: возможность ‘possibility’ (возможность расколоть православие ‘the possibility of splitting Orthodoxy’), необходимость ‘necessity’ (необходимость чертить карты ‘the necessity of drawing maps’).

5.10.12 Summary of infinitive constructions

Infinitive constructions attached to main predicates are summarized in Table 5.19.

The constructions here are arranged in order of increasing autonomy of the infinitive clause. The infinitive is tightly bound to “impersonal” modal predicates (надо, etc.). The modality of the main predicate applies to the whole event
named by the infinitive, and is directed to a dative goal, who is then the implicit subject of the infinitive. At the opposite extreme, the subject of the main predicate transfers control to another individual (expressed as dative goal of the transfer or the accusative site of transfer) who is the implicit subject of the infinitive. Intermediate are constructions in which the subject of the main predicate controls the development of the event named by the infinitive.
6.1 States and change, times, alternatives

All predicates report histories – narratives, scenes, hopes, orders – as do the predicates in [1], which relate the narrative of a journey of the Aksakov family:

[1] В середине зимы 1799 года приехали мы в губернский город Казань. Мне было восемь лет. Морозы стояли трескучие.

In the middle of winter in 1799 we arrived in the regional capital of Kazan. I was eight. There was crisp frost.

The stories or scenes are elaborated around some time and world (set of circumstances) that the speaker deems immediately relevant to the ongoing dialogue or narrative; it might be termed the contextual time-world or the contextual occasion.¹ The contextual time-world can be localized in relation to the here-and-now of speech, and that is what the category of tense does. Thus in [1], the adverb phrase establishes a contextual occasion in the winter of 1799, which is prior to the time of speech (writing), and the verbs are all past tense.

The states reported by predicates can be static, as are the speaker’s age and the weather in [1], or the states can change, as does the location of the Aksakov family in [1]. The concern with change and possible change around the contextual time is aspect. As is well known, verbs in Russian can be classified into two moieties, perfective and imperfective, that differ by the kind of history they report (§6.4).

Predicates provide information not just about states of the actual world. They also invite comparison to alternatives, to what might have been or what might come to pass. In [2], the narrator, a young boy, describes more about the journey of [1]:

Covered by a fox coat over the quilt, I warmed up, fell asleep and awoke the next day healthy.

The mother of the narrator feared that her boy might fall ill as a result of the chill he experienced during the journey. Here in [2] the narrator describes how he awoke in a state of health, a fortunate result that runs counter to the future that his mother anticipated. Therein is the real information value. The information is not only the state that is asserted to hold, but the evaluation of that state against alternatives that had been anticipated. Broadly, modality is any concern with alternatives that are mediated by an authority.

Predicates, then, report histories, which can be static or changing around a contextual occasion (aspect) relative to expectations (modality); the history and the contextual occasion are positioned with respect to the time of speech (tense).

The discussion below is oriented around the categories of tense, aspect, and mood that are explicitly expressed by means of morphology, but at the same time, it is to be understood that they fit into larger, and interconnected, notions of aspectuality, temporality, and modality.

### 6.2 Mood

#### 6.2.1 Modality in general

Modality, in general, is a consideration of alternatives, as viewed by some authority or speaker. Alternative realities are legion. There are various reasons for considering alternatives in addition to the world we take to be real.

(a) **Modality of epistemology**: Although the speaker seems to be the ultimate authority for knowledge, the speaker in a sense is the addressee of external stimuli, memory, other speakers. The speaker is not always an omnipotent authority, and may indicate some uncertainty or attenuation of knowledge about the world. Included under modality of epistemology are verbs of seeming, appearance, and the phenomenon of reported speech.

(b) **Modality of responsibility**: As speakers we believe that the world is not just the way it is accidentally, spontaneously, but that the world is the way it is because of some responsible authority. Authority can be layered. For example, in using an imperative, there are two layers: the speaker acts as authority to decide how the world should be, and then cajoles or implores the addressee to become an authority and change the world from its current state. In deontic modality (etymologically, the modality of “binding”), expressed by modal
predicates such as надо 'necessary', прийти 'have occasion to', лучше 'better', должен (должна, etc.) 'is obligated', there are likewise two layers. The person to whom the obligation is directed is 'bound' to take responsibility for the world. And that responsibility derives from a higher authority, a generalized code of possibility and obligation.

(c) **Situational Modality:** When speakers and addressees are not acting as authorities, one is left with modality in which one situation of the world interacts with another: one situation is consistent with another (despite expectations), or causes another, or excludes another. All narrative is about one event making another possible; argumentation involves demonstrating how one fact makes another fact necessary. Situational modality is often implicit; it becomes explicit in conditional structures.

These are the general types of modality. Morphologically, Russian can be said to distinguish three moods: **realis mood** (past and present and future tenses), **imperative**, and an all-purpose **irrealis** (subjunctive) modality. The infinitive, although it is non-finite, could also be considered a mood. Irrealis mood is expressed not by inflectional morphology, but by means of the particle бы. This particle most often follows immediately after the verb, and a finite verb must be in the past tense:

Were Serezha still alive, he would write a droll story about our gathering.

Put after the verb, бы focuses on the alternative states of the world, on what might happen. But the particle need not occur directly after or attached to the verb; it can be used with a conjunction or an argument (both in [4]):

[4] Если бы я был Блоком, я бы сочи́нил про неё «Незнайкомку»
If I were Blok, I would write “The Stranger” about her.

When бы is put after an argument, the alternative realities that are entertained depend on properties of that argument; thus [4] hangs on the identity of the speaker.

Although бы requires the past tense when it is used with a finite verb, it does not require the past tense when it is used to attenuate the force of modality, in the free infinitive construction (Мне бы извинить 'perhaps I should apologize') and with non-verbal predicates (лучше бы 'would be better', надо бы 'would be necessary', можно бы 'perhaps' – обо всем этом можно бы написать новеллу 'about that one might write a whole novella'). The particle has long been used together with the conjunction что 'that', resulting in an univerbated irrealis conjunction чтобы. Чтобы occurs either with finite verbs, which must appear in the past tense, or with infinitives.
6.2.2 Mands and the imperative

By using an imperative, the speaker acts as an authority and requests the addressee to become an authority and take responsibility for making the future world match the speaker’s wishes.

Perfectives predominate in positive imperatives, since in using imperatives the speaker as a rule asks for a definitive change of the world:

Take Zola’s novel *Ventre de Paris* and read it.

[6] Зайдите через три дня!
Come back in three days!

Oh, the papers – they might come in handy, stick them in this box.

Also by general rule, negative imperatives are normally imperfective:

[8] Но если моего мужа и моего сына отправят далеко, нам не на что будет жить, мы табакерку продадим. Не берите е, пожалуйста.
But if my husband and son are sent off, we won’t have anything to live on, and we’ll sell the snuff-box. Don’t take it, please.

[9] Не ставьте пустую бутылку на стол!
Don’t put an empty bottle on the table!

While this is the usual distribution of aspect in the imperative, the opposite, chiasmic, combinations occur. A negated perfective imperative indicates a warning against an event the speaker considers imminent: unless alternative strategies are adopted, the speaker expects the undesirable positive result to develop:

– So you have a pistol? Don’t even think of shooting yourself!

[11] Привожая меня, Владимир сказал:
– Смотрите не оставайтесь нанеберитесь нахальства, в случае чего врите, а меня не подведите.
As he accompanied me, Vladimir said:
– Watch you don’t do something shameful, act with impudence, if there’s a problem, lie, and don’t give me away.

Imperfectives can be used as positive imperatives to express the usual senses of the imperfective, for example, a generalized action *(спу́й* in [11]) or habit ([12]):

Please open the window in the morning.

---

Imperfective imperatives can also be used in certain pragmatic situations in which the speaker has in mind a single occasion, not a generalized activity. The speaker can use an imperfective imperative to issue an invitation:

[13] Заходите\textsubscript{\text{<\text{imv}\text{>}}} , раздевайтесь\textsubscript{\text{<\text{imv}\text{>}}} !
Come on in, take off your things.

Or to grant permission, when the addressee hesitates;

– Приходи\textsubscript{\text{<\text{imv}\text{>}}} . – [Indeed, do] come.

Or to insist on an activity, when the addressee hesitates and there is a clear and present danger that the activity might not be performed:

[15] Берите\textsubscript{\text{<\text{imv}\text{>}}} , не сомневайтесь\textsubscript{\text{<\text{imv}\text{>}}} !
Go ahead and take some, don’t hesitate!

[16] \textit{I}: Они же уезжают. Может, они машину продадут?
They are moving away. Maybe they’ll sell their car?

\textit{I}: Наверное, они ее будут продавать.
No doubt they’ll try to sell it.

\textit{I}: Наташа, продайте\textsubscript{\text{<\text{imv}\text{>}}} ее мне.
Natasha, sell it to me.

[17] Суп готов. Снимай\textsubscript{\text{<\text{imv}\text{>}}} !
The soup is ready. Remove it.

These contexts are alike in that, in all, the speaker anticipates that a certain activity is already established as a possibility, but is nevertheless not a certainty. What is at issue for the speaker is first and foremost whether the activity will occur at all, as opposed to not occurring. The imperfective is motivated by the focus on the binary question of the existence of the activity rather than on change and result.

Imperatives, self-evidently, are oriented to the addressee, and so are implicitly second person. Something like first-person imperatives can be formed by using the present form with a hortative intonation; the affix -\textit{te} makes an inclusive plural ([18]):

[18] – Идемте\textsubscript{\text{<\text{1pl+2pl}\text{ pred}\text{>}}} с нами в кино, говорят, очень интересный фильм.
– Come with us to the movies, they say, there’s an interesting film.

Other constructions similar to imperatives can be formed by combining certain frozen imperative forms with verbs (often present-tense perfective) in any person.

\textsuperscript{3} Paducheva 1996 ([12], [13], [14], [15], [17]) first distinguishes three parameters: initial phase, immediacy, and contextual dependence, and then lists specific pragmatic situations. The general condition is insistence on the existence of the activity in the face of uncertainty (Timberlake 1998).
Да́йте ‘give, let’ ([19]) or, less usually, га́йте ([20]) assume the addressee is the authority:

[19] Да́йте выбрать.новый принтер для вашего офиса.
Let’s select a new printer for your office.

Let me have a go at it.

With ну́сь ‘let’, the proposed event depends on the situation rather than on the addressee:

I’ll just go right now to inform the police. Let them come and take them off.

[22] В подвале они какой-то магазин хотят открыть. Мало ли чем они там занимаются. Вечером приеду домой, позвоню в милицию. Пускай приедут, проверят.
In the basement they want to open a store. There’s hardly anything there’re not into. This evening I’ll go home, call the police. Let them come, check it out.

With ну́скáу, less frequent by a ratio of at least five to one, the expectation is more tentative.

6.2.3 Conditional constructions

In their most explicit form, conditionals in Russian have a condition (protasis) introduced by a conjunction such as если ‘if’ (or когда ‘when’) and a consequence (apodosis); the apodosis can be marked with the particle(s) и ‘or else, and then’. To be a conditional, a situation needs some degree of uncertainty about whether the condition and then also the consequence will be fulfilled. Four cardinal types of less-than-certain situations can be distinguished.

Epistemological conditions: The condition can be considered less than certain if the speaker’s knowledge about an event is uncertain. Epistemological conditionals state that in the speaker’s opinion, knowledge, or worldview, if the protasis is true, the truth of apodosis follows. The relation is not causality in the usual sense, whereby one state of the world is responsible for the existence of another state of the world; the sequence is in the speaker’s epistemology. Tense, aspect, and mood are open.

General (iterative) conditions: In repeating situations, some uncertainty of the protasis comes from the fact that the condition is not in force at every moment, but arises from time to time. In such general or iterative conditions in Russian, the verbs of both clauses are almost always imperfective. General conditions hold across time, and are naturally expressed in the present tense and realis mood ([24]), though they can be moved into the past ([25]) or the future or to counterfactual worlds. The conjunction is often косяга ‘when’ ([25]) rather than the quintessential conditional conjunction если ‘if’.

Occasionally iterative conditionals can have a perfective protasis (instead of imperfective), emphasizing that the hypothesized condition is a result of an unpredictable event:

Hypothetical: The speaker may invite the addressee to consider a world the speaker knows is not real. In such counterfactual conditions, both clauses use the particle бы and, accordingly, the past tense of a finite verb:

Hypothetical situations often lie in the past ([27]), but they can hold in the present ([28]):
Potential: Some conditions are uncertain in that they deal with potential states – states that are not actual at this moment but which might still come to pass. Potential conditions, which often lie in the future, are expressed by present-tense perfective forms or the imperative futures.

[29] У меня жар, он пройдет, если я найду банку с вареньем. Но её спрятали, так как Вова и я все берём без спроса.
I have a fever, it will pass, if I can just find the jar with the jam. But they've hidden it, because Vova and I keep taking from it without asking.

[30] Если журналисты не дадут своего согласия, просто вырежет их статьи и будет наклеивать без гонорара.
If the journalists won't give their permission, he'll simply cut the articles out and put them up without paying for them.

[31] Если я не вычу всех глав, от первой до последней, мне будет плохо.
If I do not learn all of the chapters, from the first to the last, it'll be bad for me.

The cardinal patterns discussed are summarized in [32].

<table>
<thead>
<tr>
<th>type</th>
<th>prototypical tense-aspect and mood</th>
</tr>
</thead>
<tbody>
<tr>
<td>epistemological</td>
<td>any; realis</td>
</tr>
<tr>
<td>general</td>
<td>past ~ present imperfective; realis</td>
</tr>
<tr>
<td>hypothetical</td>
<td>past perfective; irrealis</td>
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<tr>
<td>potential</td>
<td>present-tense perfective ~ imperfective future; realis</td>
</tr>
</tbody>
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If the condition is hypothetical, then the irrealis mood with был is used. If iterative, then imperfective is used.

In the usual case, the protasis and apodosis represent the same degree of reality – both are potential or hypothetical – and are expressed with the same or comparable tense and mood. (The imperfective future and perfective present are comparable in both referring to events in the future.) In iterative conditionals, aspect also matches in the two clauses. Mismatches in mood (or “hybrid” conditionals) require special semantic conditions. The least unusual hybrid is that in which the protasis is in the irrealis mood and the apodosis in the indicative; this condition is possible if был is understood as concessive and the apodosis reports a negative result (‘no matter what, there will be no result’):

[33] Если был я, например, попробовал разводить овощи или еще что-нибудь полезное, – ничего не выйдет.
Even if, for example, I were to try to grow vegetables or do something else productive, – still, nothing will come of it.
Conditionals can also use imperatives in the protasis, and not only with second persons:

34. Пожелай (PF IMV) он, они бы в Москву переехали (PF). If he had just wished it, they could move to Moscow.

35. Живи (IF IMV) мы с Вами в англосаксонских странах, фонологическое описание мира было бы уже готово. Let us live in Anglo-Saxon countries, the phonological description of the world would already be done.

The imperative as protasis has been idiomatized: бы́ть есó волья ‘if he could have his way’. The apodosis can also be imperative:

36. Правительство издало строжайший закон: опоздал (PF PST) на работу более чем на двадцать минут – катись (IF IMV) ко всем чертям. The government issued an extremely strict law: if you're late to work by more than twenty minutes, go to the devil.

The protasis may be a free infinitive not governed by any overt modal predicate:

37. Если взять (INF) ее в рот, чувствуется (IF IMV) противный вкус меди. If you put the spoon in your mouth, you get the unpleasant taste of copper.

The protasis may be a negated nominal:

38. Если бы не революция, будущий брак между двумя знаменитыми родами считался бы исключительно удачным. If it were not for the revolution, this future marriage between two very eminent clans would have been thought to be extraordinarily successful.

The syntax of this phrase is a puzzle: it seems to be a negative existential, yet the argument is nominative, not genitive.

Conditionals can be defective, with only one clause explicitly stated. A protasis used without an apodosis leaves the consequence to the imagination:

39. Вот если (IF) кто-нибудь принес лимонное мороженое, стаканчик за три копейки, набитый дивным мороженым . . . And think what if somebody were to bring lemon ice cream, a three-kopeck container filled with amazing ice cream . . .

The protasis can be stated in compressed form (в тако́м случае ‘in that case’ = ‘if the condition just under discussion is fulfilled’) or derived from the context ([40–41]):

It's a good thing Boria doesn't see these books. [If he were to see them] He would despise me for an absence of interests.

Now such books would be priceless [if they could be found].

There is also a sense in which the use of бы in a single clause could be understood as inviting a conditional interpretation (§6.2.7).

6.2.4 Dependent irrealis mood: possibility, volitive, optative

Clauses with the conjunction чтобы are used as complements of various predicates describing necessity ([42]) or the speaker’s will ([43]) or wishes ([44]). These matrix predicates can take infinitives when the subject of the imposed event matches the argument of the main clause on whom the obligation is imposed. Чтобы is used when the subject of the embedded clause is not the same as the matrix argument.

It's absolutely necessary that there be music and singing.

Our parents didn't want that he should leave.

Vladimir tried to arrange that they should order journals for him.

The irrealis mood is justified in that the situation is not actual; rather, it is deemed necessary or desirable by some authority.

6.2.5 Dependent irrealis mood: epistemology

Certain matrix predicates comment on the nature of the information reported by an embedded predicate: some indicate how certain the information is (кажется ‘seem’, известно ‘known’, совершенно неверно ‘completely untrue’) or how strong the speaker’s commitment to the information is (сомневается ‘doubt’, не верится ‘it’s hard to believe’, знать ‘know’, считать ‘think, consider’) or what the speaker’s attitude to the information is (радоваться ‘be pleased’, бояться ‘be afraid’, восхититься ‘become ecstatic’). Other predicates indicate that the information derives from the speaker’s observation (видеть ‘see’, слышать ‘hear’, наблюдать ‘observe’). Information can be passed on by the primary (external) speaker from a secondary (internal) speaker. In all these instances, the internal history of the embedded clause is epistemologically less than completely certain.

In such clauses Russian generally uses the conjunction что with the indicative mood, but чтобы can be used if the matrix clause is laden with negation (ны́лья
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sayate, chtoby 'it would impossible to say that') or dread (bojat'sya, chtoby ne 'be afraid, lest'):

[45] Na Sennoy plazhadi ya chto-to ne pomno, chtoby prodavalo seko.
    On Haymarket Square, I somehow don’t recall that any hay got sold.

[46] Vyrastala ona nel'zya sayate chtoby krasavice.
    She grew up to be what you couldn’t call a beauty.

[47] Nikogda ne povero, chtoby Katya byla stukachko!
    I will never believe that Katia could have been an informer!

[48] Ya vserga bojatsya, chtoby mat' gde-nibud' i komu-nibud' ne pожаловалась na
    меня.
    I was always afraid lest mother complain about me somewhere and to someone.

When chtoby is used, it indicates the primary speaker’s profound doubt or fear about the embedded history. 

6.2.6 Dependent irrealis mood: reference

A relative clause turns a predication into a property of an argument. That property can be descriptive of an entity whose identity is already established or it can be definitional of an entity not yet established in the discourse as a known individual. In a definitional relative clause, the particle бы signals that the entity is quite hypothetical:

[49] Сейчас уже никого не осталось, кто знал бы так близко Леонида Борисовича в
    повседневной жизни, как довелось мне.
    Now there is no one left who might have known Leonid Borisovich as intimately
    in his daily life, as I had the chance to.

6.2.7 Independent irrealis moods

The particle бы can be used in independent clauses, in two ways. 5

First, бы can be used in independent clauses in combination with predicates that are already modal – predicates that comment on possibility, ability, necessity, desirability, epistemology.

[50] Я хотела бы.., заткнуть уши, но не решаюсь.
    I wanted to stuff my ears, but I can’t make up my mind.

The particle has the effect of softening the modality. Usually the situation is counterfactual: in [50], the girl does not actually dare to stuff her ears.

5 See Garde 1963, which deals exhaustively with all uses of бы ([51], [52]).
Second, the irrealis mood can be used without any overt support from the context: in [51], to express a suggestion; in [52], to express a deliberation, a wish.

[51] Вы бы отдохнули, тетя Рая.
You ought to rest a bit, Aunt Raia.

[52] Честное слово, я, не задумываясь, убила бы этого типа.
Honest to God, I’d kill that guy without giving it a second thought.

This independent usage seems restricted and infrequent in the twentieth century.

The independent irrealis mood expressing a wish has become idiomatized with phrases such as толькожбы ‘if only’ orлишьбы ‘if only’:

[53] Он начинает декламировать очень длинные стихи, и учитель готов поставить ему любую отметку, лишь бы он замолчал.
He starts declaiming very long poems, and the teacher is ready to give him any grade, if only he’ll shut up.

6.2.8 Syntax and semantics of modal predicates
The syntax and semantics of the small set of predicates that have modal content deserve further study, but their core properties can be outlined as follows.

There is a basic syntactic difference splitting these predicates, and that syntactic difference is correlated with a semantic difference. Надо ‘be necessary’, нельзя ‘be impossible, inappropriate’, andможно ‘possible’ are all impersonal. The modality they report is a fact about the world in general, and the modality would have force for anyone who happened to be in the situation. The force of this general modality may be directed to a specific individual in context, expressed in the dative as a domain (a goal) for the force of the obligation.

[54] Я сбил с дороги. Начало темнеть. Тяжелый рюкзак оттягивал плечи. А идти надо было обязательно. И продукты принести, и явиться вовремя.
I lost my way. It began to get dark. The heavy backpack tugged on my shoulders. And yet it was absolutely necessary to go. To bring the goods, to appear on time.

In [54], the obligation is a general rule, though it applies to a specific individual: to achieve a certain goal (delivering the goods), anyone would have to act in a certain way.

Можно, which also has impersonal syntax, is concerned with the conditions under which something is possible. The possibility is universal – it could apply to anyone:

[55] На гору можно вскарабкаться пешком, но можно сесть и на трамвае.
It is possible to scramble up on foot, but it is also possible to go on the tram.
It’s possible to see the mastery of the genre already in *La dolce vita*.

 возможно ‘possible’ is concerned with whether the possibility exists at all ([57]).

Mastery of them is possible [at all] only with a thoroughly professional approach.

In contrast to these impersonal predicates, *должен* and *мочь* are personal: they usually have a subject in the nominative case. They report an obligation (*должен*) or possibility (*мочь*), which is presented not as a universal obligation or possibility, but as a function of the individual who is the subject. In [58],

If they call me, I have to return to Moscow immediately.

the obligation is not a general law, but a specific constraint that binds the speaker. *Должен* is an individuated obligation that arises from specific circumstances; it is negotiated, discussed, adjusted to a given individual. *Должен* is also used for predictions:

Мочь is a possibility that arises for a given individual because of the properties of that individual, under specific circumstances: in [60], if the speaker takes a certain route, then some unpleasantness might arise:

Мочь ‘can, may’, the only true verb among these modal predicates, has a perfective partner *смочь* ‘come to be able, permitted’, which reports the inception of possibility over a restricted occasion. Thus *должен* and *мочь*, which are personal rather than impersonal in their syntax, treat modality as a function of the individual rather than as a general rule.

The interaction of negation and modality is elusive in any language. Under negation, *не надо* ‘not necessary’ states absence of necessity of an activity, or even more, that the event should not occur in the present or should not have occurred in the past ([61]). *Нельзя* categorically prohibits an event that was anticipated to be possible ([62]):

---

[56] Освоение жанра можно найти еще в «Сладкой жизни».

It's possible to see the mastery of the genre already in *La dolce vita*.

[57] Их освоение возможно только при высокопрофессиональном подходе.

Mastery of them is possible [at all] only with a thoroughly professional approach.

[58] Если меня вызовут, я должен немедленно возвращаться в Москву.

If they call me, I have to return to Moscow immediately.

[59] Пароход должен прийти через два часа.

The steamship was due to arrive two hours later.

[60] Ближе всего было идти по Воронежской, но там я мог встретить знакомых, мальчишки могли меня засмеять.

It was closer to go by way of Voronezh Road, but that way I might meet acquaintances, and the boys might make fun of me.

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The interaction of negation and modality is elusive in any language. Under negation, *не надо* ‘not necessary’ states absence of necessity of an activity, or even more, that the event should not occur in the present or should not have occurred in the past ([61]). *Нельзя* categorically prohibits an event that was anticipated to be possible ([62]):
6.3 Tense

6.3.1 Predicates and times, in general

Predicate histories are ultimately anchored in the here and now of speech. Every predicate history has to be accessible to the addressee. As Augustine informed us, “there are three times, the present of things past, the present of things present, and the present of things future.” That is to say, Augustine believed that discussing the world in time presupposes an operation to get from the here and now of speech to the “present” we want to discuss. To do so, the speaker constructs a path (a vector, a linkage) from the speech moment to a contextual time-world, which can be in the present (accessible by intuition and observation) or the past (accessible by memory, says Augustine) or the future (accessible by anticipation).

Tense is the grammatical device for constructing a path from the present of the speech moment to the contextual occasions over which the histories take place.7


banquets and inspections begin, and then a week later we head for the front. They are promising to show us Germans at fifty paces. Then they'll take us to inspect the Navy. Newcastle made a great impression on me – this is a city of shipyards, ships, and coal.

When the speaker uses the present tense (here, пишу ‘I write’, горит ‘burns’, свистят ‘whistle’, обещают ‘they promise’), the speaker remains in the same world as the present of the moment of the speech. Past-tense forms of the verb construct a path to a contextual occasion in the past. In [64], there is more than one layer of past: the recent arrival (приехали), from which the speaker leads the addressee to an earlier time during the prior journey (нас разъясняли; изменял); in context, the task of constructing linkages can be complex, recursive, even though there is only one morphological form of the verb expressing past tense. To guide the addressee to a world lying in the future from the present of speech, the speaker uses either the periphrastic future, if the verb is imperfective or anaspectual (in [64], будем в Лондоне) or the present-tense perfective form (начнутся, поедем).

The general picture for Russian is that there are three types of contextual occasions, as has long been assumed: past, present, future. By and large, these are signaled by the morphology of tense in straightforward ways, as in [64]. As far as the grammatical forms are concerned, the only complication is that perfective verbs have forms analogous to present-tense forms among imperfectives, but these forms are used for events that will be completed in the future. Interesting complications arise when the path from the speech moment to the history becomes more complex in one way or another. One complication is the use of tense in embedded (syntactically subordinate) clauses. The other is the historical present, the use of the present in narrating an event understood to have occurred in the past.

6.3.2 Tense in finite adjectival and adverbial clauses

Finite verbs in subordinate clauses introduced by conjunctions are marked with tense, as befits finite verbs. Four types of clauses can be distinguished: adjectival, or relative, clauses (usually formed with который ‘which’); adverbial clauses (introduced by когда ‘when’, как ‘as’, если ‘if’); argument clauses that express information – speech or thought or belief or perception or regrets or hopes; and argument clauses that express modality. The last type uses the conjunction чтобы ‘in order that’, and takes the past tense automatically (§6.2.4).

Adjectival and adverbial finite clauses treat tense in a similar fashion. Tense in such clauses is determined in relation to the here and now of speech rather than the time of the main clause. Consider a relative clause attached to a main
clause whose verb is a perfective past. A perfective event in the relative clause that occurs about the same time as the main event is expressed as past, because it is past relative to the time of speech:

[65] Я случайно подслушал один разговор, который меня заинтересовал.
I accidentally overheard a conversation that interested me tremendously.

If need be, adverbs can be added to localize a perfective event in relation to the main clause, as earlier ([66]) or later ([67]):

[66] Однажды явились к нам в аудиторию один активист, у которого негавно вышла тоненькая повестушка «Белые волки».
Once a certain activist came to talk to us in the auditorium, who not long ago had had a thin tale called “White Wolves” come out.

[67] Там, в Вологде, я написал первые строфы стихотворения, которое дописал уже позже.
There, in Vologda, I wrote the first lines of a poem that I would finish only later.

If the embedded verb is imperfective past (e.g., исполн.), it can have any temporal relation to the main predicate: prior ([68]), simultaneous ([69]), or subsequent ([70]), but will be expressed as past, if the event is past relative to the here and now of speech.

[68] Я встретила у Вали артиста, который когда-то играл Чапского.
At Valia’s I met an actor who had once played Chatsky.

[69] Я встретила у Вали артиста, который играл Чапского в местном театре.
At Valia’s I met an actor who played Chatsky in the local theater.

[70] Он нажил болезнь, которой страдал всю последующую жизнь.
He acquired a disease, from which he suffered all the rest of his life.

If the situation mentioned in the relative clause is simultaneous with the here and now of speech, the present tense is used ([71]). If the situation is future, it is expressed by the imperfective future tense ([72]) or the morphological present of perfectives.

[71] Его ближайшим начальником был инженер Камзолкин, о котором мой отец упоминает в своих воспоминаниях.
His immediate supervisor was an engineer named Kamzolkin, whom my father mentions in his memoirs.

[72] Он стал директором вновь создаваемой фирмы, которая в Карелии будет вырабатывать гранитный камень.
He became the director of a newly formed company that will extract granite in Karelia.
The behavior of tense with adverbial clauses, specifically embedded clauses introduced by *когда* ‘when’, is similar. With *когда*, the events of the embedded clauses as a rule occur in the temporal vicinity of the event of the main clause, whether it is a perfective ([73]) or an imperfective ([74]):

[73] Я очень обрадовался, когда увидел, что сосны по сторонам дороги.
I was thrilled when I saw the pines along the side of the road.

[74] Прежде, когда она за мной ухаживала, она носила платья, похожие на институтские.
Earlier, when she used to take care of me, she wore dresses like school uniforms.

If the event of the main clause is present, the event of the *когда* clause will also be present ([75]); and if the main verb is future, the *когда* event will be as well ([76]):

[75] И теперь, когда я слышу по радио эту серенаду, то всегда вспоминаю Артемию.
And nowadays, when I hear that song on the radio, I always recall Artemy.

[76] Вова у велосипедной девочки и когда он вернется, он будет очень недоволен.
Vova is visiting the bicycle girl and when he comes back, he'll be very displeased.

The conjunction *нокда* ‘while, for so long as’ differs from *когда*. If the event of the *нокда* clause is imperfective, it overlaps an imperfective ([77]) or frames a perfective event ([78]):

[77] Пока поднимались по лестнице, дежурные нас торопили: «Скорее, скорее!»
While we were climbing, the dezhurnye were hurrying us along: “Faster, faster!”

[78] Пока одевался, в дверь постучали.
While I was getting dressed, they knocked at the door.

But if the verb of the *нокда* clause is negated and perfective, *нокда* sets limits: the state or activity of the main (imperfective) predicate continued or will continue only until the perfective event in the subordinate clause with *нокда* occurs. The whole situation can be grounded in the past ([79]) or the future ([80]):

[79] Пока не стемнело, все любовался Окой и ее берегами.
Until it got dark, I admired the Oka and its banks.

[80] Будем шагать, пока не надоест.
We'll keep walking until we get tired of it.

In summary, in finite subordinate relative clauses and adverbial clauses, embedded events often occur in the vicinity of the time-world of the main event.

8 The analysis here owes much to Barentsen (1979) (with simplifications).
Grammatical tense in the subordinate clause is determined with respect to the time of speech.

6.3.3 Tense in argument clauses

The third group of subordinate clauses are those that fulfill the functions of nominal arguments. They can be subjects: \{ясно ~ мне казалось ~ меня возмутило (то) ~ стало известно\} что ‘{it is clear ~ it seemed to me ~ it upset me ~ it became known} that’. Or they can be objects: \{знаю ~ считаю ~ говорю ~ верю ~ доложил\}, что ‘{I know ~ consider ~ say ~ believe ~ reported} that’. In these instances the main verb reports speech in an extended sense: speech, thought, attitudes, beliefs, knowledge, perceptions, representations. Clauses of embedded speech (in this generous sense) can be said to have two layers of speech and speakers: the speech of the primary, or external, speaker, as opposed to the speech of the secondary, or internal, speaker. In such situations of nested speech, the internal speaker is closer to the event reported; the external speaker has access to that information only by virtue of being the addressee of the internal speaker. This fact influences how tense is used in such clauses.9

The most general conjunction is что 'that'. With что, there are five possibilities of tense-aspect forms in the subordinate clause. Assume that the main verb, which names the act of reporting internal speech, is in the past tense. (a) Then a past perfective refers to an event completed earlier than the time of internal speech ([81] похоронил):

[81] Едик рассказал, что похоронил жenu, и заплакал.
Edik told that he had buried his wife, and began to cry.

(b) A past imperfective refers to a state or activity that occurred prior to the time of the internal speech (in [82], a prior conversation is discussed on the way home):

[82] По дороге он рассказал мне, что в кабинете у Савинкова речь шла о каком-то третьей России.
On the way he told me that the discussion at Savinkov's had been about the so-called Third Russia.

(c) An event expressed as a perfective present is future relative to the time of internal speech ([83]), (d) as is a future imperfective ([84]):

9 The variation has been recognized and documented by Boeck (1957, 1958, source of [94]) and more recently Barentsen (1996) (especially for clauses with как). For other (not identical) views, see Brecht 1975, Comrie 1986[b]. Declerck’s analysis of English tense (1991) can be adapted to Russian.
Mood, tense, and aspect

[83] Ася была уверена, что моя мама не согласится. Asia was convinced my mother would not agree.

[84] Тогда я дала себе слово, что больше салфеток вышивать не буду. At that time I promised myself that I would never embroider napkins again.

(e) The fifth tense-aspect form is the present-tense imperfective, which refers to an event that holds on the occasion (time and world) of the internal speech:

[85] Вскоре все рабочие поняли, что работают они, в сущности, бесплатно, только за пай.

Soon all the workers understood that they were working, in fact, for no pay, just for rations.

[86] Куприн дремал перед пустой бутылкой, а может быть, притворялся, что дремлет.

Kuprin dozed in front of an empty bottle, or possibly, pretended that he was dozing.

In [85], the work includes the time of understanding, and in [86], the dozing overlaps the secondary speech event (Kuprin's dissimulation). It might be noted that, according to the “sequence of tense rule,” the embedded verb in English would have an additional mark of past tense, reflecting the fact that the internal speech is embedded under a past verb.

Indirect questions determine tense relative to the time of the matrix clause in a similar fashion. In [87] the present-tense question concerns a situation at the same time as the question was posed. In [88], the questions are localized relative to the time of imagination.

[87] Любовь Михайловна спросила, как ему живется в Томске.

Liubov Mikhailovna asked how he was getting along in Tomsk.

[88] Не могли представить себе – кого они увидят, какой он стал?

They could not imagine – who would they see, how had he changed?

The same principle – tense in the subordinate clause is determined with respect to the time of the internal speech event – holds when the matrix verb is a subjunctive or future. In [89], the pin-swallowing is predicted to occur after the shouting begins, and this projected act is expressed by a perfective present referring to the future.

[89] Если бы я взяла булавку в рот, со всех сторон стали бы кричать, что сейчас я проглотила ее и мне придется делать операцию.

If I should put a pin in my mouth, they would cry out from all sides that I am just about to swallow it and I'll have to have an operation.
Reference Grammar of Russian

When the twins find out that some Bobik has appeared, they'll growl.

In [90], Bobik’s appearance is past tense because it occurs before the future awareness of it.

Thus, as a rule, clauses conveying speech (intelligence, speech, knowledge, etc.) – those introduced by что или indirect questions with no conjunction – determine tense in the embedded clause in relation to the time at which the internal speech occurs rather than in relation to the here and now of the primary speech.

In addition to что, Russian also uses the interrogative как ‘how’ as a conjunction specifically with verbs of perception: наблюдать, как ‘observe how’; видеть, как ‘see how’. Verbs of perception are also verbs of speech, in the broad sense: the external speaker has access to information about the world only through the observations and perceptions of the internal speaker. But with как, unlike with что, the time of the secondary speech is tightly constrained; whatever is observed must hold at the time of observation. Thus a past perfective event is encompassed by the interval of observation:

И она увидела, как по дороге от леса довольно ходько едет лошадь.
She saw how a horse was going at a good clip on the road out of the forest.

The interesting fact is that imperfectives in the subordinate clause introduced by как can be either past or present. The present tense reports an activity that is viewed from the perspective of the internal speaker (the observer), as it is in progress; what is of interest is how the activity proceeds, such as how the horse moved ([92]):

И они целовались.
They knew that the prisoner understood Russian well, many of them had heard how the regiment commander had interrogated him.
With как embedded under verbs of observation, the past imperfective is quite frequent, as much as half of the tokens for some authors.

In fact, the past imperfective can also be used with the conjunction что. Although the present tense is usual, a past imperfective is possible if the event is localized to a specific moment in the past ([95]) or the whole situation lies in the remote past ([96]):

[95] Он понял, что в этот момент Петров не слушал его.
He understood that at that moment Petrov wasn’t listening to him.

[96] Могла ли я знать, что как раз в те дни был предан суду и ожидал смертного приговора обвиненный в подготовке покушения на жизнь Николая II инженер Зильберберг, родной брат моей героини?
Could I possibly have known that exactly in those days an engineer named Zilberberg (the brother of my heroine) was in the hands of the court and was awaiting the death sentence in connection with the attempt on the life of Nicholas II?

In [96], the narrator takes two steps into the past: from the present (when she writes) to her memories of эмиграция life in Paris in the twenties, and from there back further in time to the turbulent life of 1906; the memory is buried deep in the past.

The past imperfective is usual when the internal speech (observation) repeats ([97–98]):

[97] Иногда заходил Саша. Он с восхищением посматривал на Наталку, и Серега замечал, что она при этом опускала глаза.
Sometimes Sasha would drop in. He would look with admiration at Natalka, and Serega would notice that she would lower her eyes at this.

Iterative contexts presuppose that there is a series of discrete sub-events. Each sub-event involves a definitive change and, as a single event, would be expressed as the past perfective (Серега заметил, как она опустила глаза ‘Serega noticed how she lowered her eyes’). This past is carried over when the situation is iterated.

Table 6.1 summarizes the conditions for using the present imperfective as opposed to past imperfective for events understood to be simultaneous with past-tense verbs of speech. Generalizing, we can say that the past is possible (with как, likely) when the external speaker presents a past situation as limited in validity to a time and world that is anterior to – and more than that, is distinct from – the time and world of the external speaker. Using the past imperfective

11 Boeck (1957), Timberlake (1982).
Table 6.1 Tense of imperfectives, simultaneous activity

<table>
<thead>
<tr>
<th>condition</th>
<th>past tense</th>
<th>present tense</th>
</tr>
</thead>
<tbody>
<tr>
<td>temporality of embedded history</td>
<td>temporally restricted (to specific moment; or over a durative interval)</td>
<td>temporally extended (the quality of a specific activity; universal truth)</td>
</tr>
<tr>
<td>quantification of embedded history</td>
<td>iteration of discrete sub-events</td>
<td>single continuous state or activity</td>
</tr>
<tr>
<td>linkage of embedded history to internal speech</td>
<td>кас (restricts activity to interval of observation)</td>
<td>кто, indirect questions (free temporal reference)</td>
</tr>
<tr>
<td>temporality of internal speech</td>
<td>retrospective, displaced</td>
<td>on main narrative line</td>
</tr>
<tr>
<td>linkage of internal speech to primary speech</td>
<td>subject clause (more factual)</td>
<td>object clause (more subjective)</td>
</tr>
<tr>
<td>linkage of internal speech to primary speech</td>
<td>perspectives of two speakers differentiated</td>
<td>perspectives of two speakers not differentiated</td>
</tr>
</tbody>
</table>

makes clear the disjunction between speakers, and makes explicit that there is a complex linkage involving two distinct steps from the time of external speech event to internal speech event, and from there to the reported history.

By using the present imperfective (the more frequent choice with кто), the speaker fails to differentiate the external here and now of speech and the time-world of the internal event of speech.¹² The external speaker may cede the point of view to the internal speaker, or the points of view of the two speakers, external and internal, may blend into one.

Table 6.2 gives a summary of some of the possibilities with standardized examples.

6.3.4 Shifts of perspective in tense: historical present
To narrate stories of events that have already occurred, speakers normally use the past tense. The past tense signals that the contextual occasions around which the events occurred lie in the past, and it establishes a link from the here and now of speech to those past contextual occasions. There is an alternative mode of narration, termed the historical present. Once the linkage from the here and now of speech to the contextual time-world has been established, the speaker can shift the perspective to the contextual time-world and use that time as if it were the here and now of speech, and from the perspective of that time, narrate events using present-tense imperfective verbs.

As an example, observe the alternation between past perfectives and present imperfectives in [98], where the narrator tells of forcing a train to make an emergency stop.

[98] Один раз я даже затормозил <pf pst> его у Фандерфлита // <...> Потому что мне сказал главный кондуктор что он остановится // а он не остановился <pf pst> идет <if prs> дальше // <...> я // так сказать // еще ... можно сказать ... стоял <if pst> уже на подножке чтобы выходить // схватил <pf pst> этот тормоз // дернул <pf pst> // и думаю <if prs> что наверно он не затормозит // <...> Он так затормозил <pf pst> что все полетели <pf pst> с полок // там Бог знает что // багаж весь попадал <if pst> и все такое || А я схватил <pf pst> свои вещички // вижу <if prs> кусты рядом // скорей в кусты /// (cmex) // <...> Там сел <pf pst> и сижу <if prs>

<table>
<thead>
<tr>
<th>pattern</th>
<th>example</th>
<th>interpretation</th>
</tr>
</thead>
<tbody>
<tr>
<td>PST что {PST PF}</td>
<td>Он заметил, что она опустила глаза.</td>
<td>definitive change prior to internal speech</td>
</tr>
<tr>
<td></td>
<td>‘He noticed that she lowered her eyes.’</td>
<td></td>
</tr>
<tr>
<td>PST что {PST IF}</td>
<td>Он (иногда) замечал, что она (в этот момент) опускала глаза.</td>
<td>activity (state) not extending beyond internal speech</td>
</tr>
<tr>
<td></td>
<td>‘He (often) noticed that (at that moment) she lowered her eyes.’</td>
<td></td>
</tr>
<tr>
<td>PST что {PRS IF}</td>
<td>Он заметил, что она опускает глаза.</td>
<td>activity (state) extending beyond internal speech</td>
</tr>
<tr>
<td></td>
<td>‘He noticed that she was lowering her eyes.’</td>
<td></td>
</tr>
<tr>
<td>PST что {PRS PF}</td>
<td>Он подумал, что она согласится</td>
<td>definitive change after internal speech</td>
</tr>
<tr>
<td></td>
<td>‘He thought that she would agree.’</td>
<td></td>
</tr>
<tr>
<td>PST что {FUT IF}</td>
<td>Он подумал, что будет танцевать.</td>
<td>event after internal speech</td>
</tr>
<tr>
<td></td>
<td>‘He thought they would dance.’</td>
<td></td>
</tr>
<tr>
<td>PST как {PST PF}</td>
<td>Он заметил, как она опустила глаза.</td>
<td>definitive change within observation</td>
</tr>
<tr>
<td></td>
<td>‘He noticed how she lowered her eyes.’</td>
<td></td>
</tr>
<tr>
<td>PST как {PST IF}</td>
<td>Он (часто) замечал, как она опускала глаза.</td>
<td>incomplete (or repeated) activity within observation</td>
</tr>
<tr>
<td></td>
<td>‘He (often) observed how she lowered her eyes.’</td>
<td></td>
</tr>
<tr>
<td>PST как {PRS IF}</td>
<td>Он заметил, как она опускает глаза.</td>
<td>incomplete activity extending beyond observation</td>
</tr>
<tr>
<td></td>
<td>‘He noticed how she was lowering her eyes.’</td>
<td></td>
</tr>
</tbody>
</table>

Table 6.2 Tense in object argument clauses of speech
думаю, что будет // Ну и вот проходит, потом этот оберкондуктор и механик // механик ругается, ужасно //
Once I actually stopped it at Fanderflit // <. . . > Because the head conductor had told me that he would stop / but he did not stop, keeps going / <. . . > I / so to say / well . . . you could say . . . was standing on the footboard in order to get out / grabbed that brake / jerked / and I'm thinking that it won't brake // <. . . > It braked so hard that everything went flying from the shelves / and God knows what / the baggage went falling and everything // And I grabbed my things / I see some bushes nearby / as quickly as possible into the bushes // (laughter) <. . . > I sat down there and I'm sitting thinking what's going to happen // Well then there goes by that head conductor and the mechanic // the mechanic is cursing terribly //

Here past-tense verbs, almost all perfective, advance the narrative sequence, while present imperfective verbs convey the perceptions of an internal observer/speaker. Accordingly, the onset of the historical present is common when speech or perception is explicitly introduced (сел и сижу думаю in [98]) or when an observer changes location (in [100]).

Stylistically, the historical present is versatile. Consistent with its name, it is used in popular writing about history, as in [99], perhaps more freely in Russian than in English.

[99] В княжение Андрея Боголюбского (1157–75) архитектура переживает <cif prs> период яркого и плодовитого подъема <. . . > Андрей порывает <cif prs> с Киевом <. . . > и уходит <cif prs> на север <. . . > Андрей Боголюбский выступает <cif prs> как непримиримый и энергичный борец за объединение Руси под сильной княжеской властью <. . . > Ему приходится <cif prs> вступить в неравную борьбу и с самой Византией <. . . >
In the reign of Andrei Bogoliubsky (1157–75) architecture experiences a period of brilliant and fruitful development <. . . > Andrei breaks with Kiev <. . . > and goes to the North <. . . > Andrei Bogoliubsky acts as an uncompromising and energetic warrior for the unification of Rus under firm princely power <. . . > He is forced to enter into an unequal battle with Byzantium itself <. . . >

At the far end of the stylistic spectrum, the historical present is a mark of oral storytelling ([98] above). It is then used in fiction to imitate the narrative of the oral raconteur. Example [100] is set up with past events, but then shifts to the present when the new character appears:

[100] Конференция состоялась в Политехническом институте. Я туда заехала <pf pst>, побеседовал <pf pst>. Через пять минут информация была <pst> готова.
Отдал <pf pst> ее в секретариат. Появляется <cif prs> редактор Туровок <. . . > На этот раз возбужден:
The conference took place in the Polytechnic Institute. I went there, talked a bit.
In five minutes the notice was ready. I handed it over to the secretariat. The editor Turonok appears. <...> This time agitated.
- You've made a crude ideological mistake.

The historical present has some properties that are different from ordinary present-tense imperfectives. For example, приезжать<inf> cannot ordinarily be used in the present tense to refer to an event of arriving actually in progress, but it can be used as a historical present:

[101] Когда мы приезжаем<inf pre>, оказывается, что нас сильно потрясло.
When we get there, it turns out that we have been thoroughly shaken up.

Also, долго ‘long time’ presumes that an activity has ceased (in order to ascertain that its duration was lengthy), yet it combines with the historical present:

[102] Мы остановились на мраморном мостике. Облокотясь о балюстраду, Толстой вычищает<inf pre>, любимую трубку, долго ковыряет<inf pre> в ней.
We stopped on a marble bridge. Leaning on the balustrade, Tolstoy cleans his favorite pipe, digs in it for a long time.

Thus, the historical present is a shift of perspective, not just a substitution of verb forms, that narrates as if from the contextual occasion in the past, but at the same time takes for granted a linkage from the here and now to the past.

6.3.5 Shifts of perspective in tense: resultative
A very specific use of tense is to exhort the addressee to bring about the result of a past perfect verb: покатались! ‘let’s roll’; пошли! ‘let’s be off’.

6.3.6 Tense in participles
Tense in adjectival participles and adverbial participles (деепричастия) is much less robust than in finite verbs. The distinction is still viable among imperfective participles. The present tense of imperfective participles presents situations as simultaneous with the time of the matrix clause; in [103], for example, ownership overlaps the act of arrival:

[103] Я укатился к жилищу, отныне мне только принадлежащему<inf pcl>.
I rushed off to the living space, from that point on belonging only to me.

Past-tense imperfective participles are used for events confined to the remote past ([104–5]):
He lived in an old single-family house that had once belonged to Khomiakov.

Mother tried to keep father’s spirits up as he went through demeaning medical review boards.

Adverbial participles of imperfectives, however, are now only present: гу́мая ‘thinking’, *гу́мав ‘having thought’; пи́ша ‘writing’, *писа́в ‘having written’. Perfective adverbial participles no longer distinguish tense. For most verbs, the form is built on the past-imperfective stem (ending in a vowel), to which the formant {-v} is added (застáв ‘having found’, прýгену́в ‘having jumped’); dental-consonant stems, whose past-infinitive stem does not end in a vowel, use present morphology (принесá ‘having brought’). Perfective adverbial participles refer to events that are completed in the vicinity of the time of the main event, often before it ([106]), but occasionally at the same time ([107]):

Once Sonia, on returning from the theater, said . . .

And we, by using the darkness of the hall, moved to other seats.

In a well-known and ever controversial proposal,13 Roman Jakobson claimed that adverbial participles distinguished three tense forms in each aspect: the present, the usual past in {-v}, and a second past in {-вšи}. Examples were formulated and semantic distinctions were assigned to these variants, essentially as in Table 6.3.

This rich and symmetrical paradigm of possibilities is no longer productive. By now, the present perfective form встрéти́ is rare (just 2 tokens on www.lib.ru in poetry, against 1330 tokens of встрéти́),14 as are the past imperfectives встрéча́в (3 tokens against 881 встрéча́) and встрéча́вши́ (no tokens!). There is more justification for a distinction between {-v} and {-вšи} in perfective adverbial participles, a distinction which Jakobson claimed was current in “the Moscow speech of my generation.” Although {-вšи} is not frequent (only 6 distinct tokens of встрéти́вши́ against 1330 tokens of встрéти́), when it is used, it does suggest causality. In [108], she came to her understanding as a result of reflecting:

13 Jakobson 1957[b]/1971[b]:140–41.
14 <12.XII.01>. More tokens of встрéти́ turned up on Google, including one from a contemporary chat room.
Table 6.3 Forms of active participles

<table>
<thead>
<tr>
<th>present</th>
<th>imperfective</th>
<th>perfective</th>
</tr>
</thead>
<tbody>
<tr>
<td>Встреча&lt;sub&gt;PRS&lt;/sub&gt; друзей, он радовался.</td>
<td>Встретя&lt;sub&gt;PF&lt;/sub&gt; вас, я не поверил своим глазам.</td>
<td></td>
</tr>
<tr>
<td>‘On meeting friends, he was happy.’</td>
<td>‘On meeting you, I could not believe my eyes.’</td>
<td></td>
</tr>
<tr>
<td>non-sequential</td>
<td>non-sequential</td>
<td></td>
</tr>
<tr>
<td>(first) past</td>
<td>Встреча&lt;sub&gt;PST&lt;/sub&gt; актёров, он случайно познакомился с Качаловым.</td>
<td>Встретив&lt;sub&gt;PF&lt;/sub&gt; Петра, он вскоре столкнулся еще с несколькими знакомыми.</td>
</tr>
<tr>
<td>‘Not having ever met actors before, he accidentally became acquainted with Kachalov.’</td>
<td>‘After meeting Petr, he soon bumped into some other acquaintances.’</td>
<td></td>
</tr>
<tr>
<td>accidental, sequential</td>
<td>accidental, sequential</td>
<td></td>
</tr>
<tr>
<td>(second) past</td>
<td>Встреча&lt;sub&gt;PST&lt;/sub&gt; актеров, он не знал, как говорить с ними.</td>
<td>Встретив&lt;sub&gt;PF&lt;/sub&gt; его, она густо покраснела.</td>
</tr>
<tr>
<td>‘Never having met actors, he did not know how to talk with him.’</td>
<td>‘On meeting him, she blushed deeply.’</td>
<td></td>
</tr>
<tr>
<td>causal, sequential</td>
<td>causal, sequential</td>
<td></td>
</tr>
</tbody>
</table>

[108] Иногда думала, что это оттого, что нет детей. Но, подумавши<sub>PST</sub> глубже, понимала – нет. She used to think sometimes it was because she had no children. But then, once she had thought about it more deeply, she understood, no. [109] Петя вздохнул, подумав<sub>PST</sub> о скромных возможностях своего института. Petia sighed as he thought about the modest resources of his institute.

The overwhelming more frequent form {-v} is neutral ([109]).

6.3.7 Aspectual-temporal-modal particles

Forms of the verb be have, in the course of history, become lexicalized as particles with temporal or modal functions. Most notable is бы, ultimately derived from a special counterfactual aorist form of ве in older Slavic. The particle есь, etymologically the third-singular form of the present tense, is used optionally in existential (§5.3.6) and copular sentences (§5.2.7).

The neuter singular, past-tense form было can be used in combination with the past tense of a verb to indicate that an action was planned or even begun, but the event has not been followed to its conclusion, or that the expected

15 Writing to Jakobson in 1933, Trubetzkoy (1975:280) said that there was no difference between гда ‘having given’ and гдамиу.
results have not been achieved. The reversal of fortune is usually stated in the
subsequent clause (often introduced by no 'but').

[110] Он пошел было прогуляться, но пересомал.
He was going to go out carousing, but changed his mind.

[111] Елизаветою Петровною было было построен новый дворец, но в 1802 году и
это представлал собой развалины.
Elizaveta Petrovna had tried to construct a new palace, but that one as well just
amounted to ruins in 1802.

Бывало, still used as the past tense of the iterative form of бе (Целый месяц
dождя не бывало 'For a whole month no rain came'), is used as a parenthetical
particle (set off by commas) to establish a recurrent situation in the past. The
main verb is past imperfective or perfective present tense in its exemplary sense
(§6.5.9). An example:

[112] А они, бывало, в рояль доверху наливали, коньяк, поджигали его,
бросали в пламя сотенные бумажки, и девушки должны были эти
бумажки выхватывать и брать себе.
And they, it would happen, would pour cognac into a piano, light it, throw into
the flame hundred-ruble bills, and girls were supposed to snatch out the bills for
themselves.

6.4 Aspect and lexicon

6.4.1 Aspect made simple
Aspect, its reputation notwithstanding, is really quite simple.16

All verbs report histories, histories of states of the worlds and changes in
states of the worlds. Aspect is a classification of verbs based on the kind of
history that a verb reports. These histories tend to polarize into two types. Some,
termed <PERFECTIVE>, report definitive change over three phases of time: a prior
phase in which a state or property does not hold, a phase of change, and a
resulting phase in which the state or property resulting from the change is
projected to continue indefinitely. Others, termed <IMPERFECTIVE>, do not report
definitive change, but instead report continuity of states or processes over time.
Verbs of each aspect are used for certain characteristic functions relative to the
contextual time-world.

16 Notable in the rich tradition of Russian aspectology are: Maslov 1948, 1973, 1984[a]; Bondarko
1971 (and others); Forsyth 1970 ([139], from Chekhov; [140], from Tolstoy); Breu 1980; Flier and
Among general linguistic works, see Comrie 1976[b]; Dowty 1979; Dahl 1985; Binnick 1991. Cons-
istent with this ongoing tradition, the present discussion emphasizes the interaction of lexicon
(predicate histories) and context.
Morphologically, aspect is not wholly transparent, for there is no single, unique morphological expression of perfective or imperfective aspect in verbs (§§6.4.3–6.4.4). However, there is a limited number of strategies. They differ somewhat, but still have the effect of making verbs unambiguously perfective or imperfective.

As a rule, verbs come in pairs of perfective and imperfective. That is, for a given perfective verb, there is a corresponding imperfective with the same meaning (same except for aspect), and, conversely, for a given imperfective verb, there is a unique perfective with the same meaning. However, the nature of pairing depends on the morphological strategy. In recognition of that fact, relations among aspectual partners or near-partners are written in two forms below. The relation of prefixed perfective and secondary imperfective is written with the perfective first, as \textit{гописать_{pf}}/\textit{гописывать_{if}} ‘finish writing’. In contrast, the relation of a simplex imperfective to a prefixed perfective (near-) partner is written with the imperfective first, for example, \textit{пльстить_{if}}/\textit{пльстить_{pf}} ‘flatter’. Similarly, semelfactive perfectives are treated as dependent on the base simplex, and are written as \textit{махать_{if}}/\textit{махнуть_{pf}} ‘wave’ (§6.4.5).

Aspect is not only lexical and morphological, it is also contextual. Whether there is definitive change is evaluated with respect to a contextual occasion, a time and world which the speaker deems relevant and worthy of discussion. In [113], the speaker names the contextual time explicitly.

[113] В конце ио́лы ночной я вышел_{pf} из поезда на Ковровском вокзале. Донеслись_{if} звуки отдаленной артиллери́йской канонады, гори́зонт освещался_{if} вспышками выстрелов.

One night at the end of June I got out of the train at the Kovrovsky Station. There carried sounds of distant artillery fire, the horizon was lit up by the flares of shells.

In [113], the process of exiting from the train is bounded, definitive, in the sense that no further exiting, in this context, is expected. This definitive change is expressed by the perfective verb \textit{обшёл_{pf}}. More generally, aspect in Slavic hangs on the notion of a limit in context. To use a perfective, there must be change that approaches and reaches a limit. The limit is such that, once it is reached at the contextual occasion, no further change is projected afterwards; only a static continuation of the state is projected.\footnote{Maslov emphasizes the importance of the “internal” or “intrinsic” limit (1948, 1973, 1984[b]). Dowty 1979 makes explicit the idea that aspect involves projecting the future from the contextual occasion – by anticipation, Augustine would say.} Thus a verb that is perfective, when it is used in context, reports a definitive change with respect to some
delimited contextual occasion. A verb that is imperfective reports continuity and absence of definitive change over an occasion or occasions. In [113], the sounds and flashes are perceived (дonoсíлиcь, oсвеcтвáлся) at the contextual occasion, the point at which the narrator exits the train. They were perceptible before and will continue to be so afterwards. It is the extension of these perceptions beyond the contextual occasion that justifies using the imperfective in [113]. Example [113] illustrates one way in which a state or activity can fail to be a definitive change over a delimited occasion. There are other ways, and they result in somewhat different senses of imperfective verbs, such as the iterative or durative senses (§§6.5.4–6.5.8, 6.5.10).

The contextual side of aspect – its interaction with times and worlds – shades into the way in which aspect helps shape discourse and text. We might operate with a tripartite classification of discourse structures.18 NARRATIVE presumes a dynamic whereby events follow each other in sequence. Each event starts from the prior situation and proceeds to a new result, which in turn becomes the starting point for the next subsequent event. Narrative, then, involves both temporal succession and modal causality. Narrative is ordinarily expressed by past-tense perfective verbs, unless the perspective is shifted (as in the “historical” use of the present tense). Language is used not only to narrate but also to talk about states of the world that overlap and coexist in time and circumstance. In this mode of language, DESCRIPTION, the focus is on the complexity of the world, on the coexistence of states, rather than (as in narrative) on the replacement of one state of the world by another. Description is by nature non-changing (hence characteristically imperfective) and coincident in time (hence present tense, or the equivalent of a present displaced to the past or future realm), and realis. And third, speakers use language not only to talk about what was or what is. Language is also used to understand what might be, to compare the reality of the here and now of speech with possibilities: with what alternative states of reality might be imagined instead of the current one, and with possible changes in the future. The third mode is prolepsis, anticipation, divination – in the broadest terms, MODALITY. This mode allows both aspects (though prefers perfective); it is future or irrealis modality.

These discourse or even cognitive categories are highly idealized. These three modes are not strictly temporal nor aspectual nor modal, but all three at once. The relation between these three modes of discourse and the category of aspect (and also tense and mood) is indirect. They are not expressed unambiguously by a single aspect or tense in a one-to-one fashion. There can be complex vectors; a present state can be attached to an event in the past, for example. In

18 Expanding from the bipartite division of Benveniste 1959, Weinrich 1964.
the discussion below, these modes are used as the fabric for the discussion of properties of aspect in context.

6.4.2 Tests for aspect membership
The most rigid distributional test for aspect is the interaction with tense. Only imperfectives form a periphrastic combination with the forms бу́ду, бу́дешь, etc.:
не бу́ду< future > нарушать< imperfect > ‘I will not disturb’. This combination is used to report incomplete events in the future. Thus imperfective verbs form three tenses: past, present, and future. In contrast, perfective verbs have only two tenses, the past and the (morphological) present. They do not combine with бу́ду, бу́дешь, etc: *
не бу́ду< future > нарушать< perfect >. Moreover, the present-tense forms of perfective verbs do not refer to events that occur at the here and now of speech, but to events that are anticipated, as viewed from the here and now, to occur in the future.

This test of three as opposed to two tenses is the most rigid and definitional test for aspect. There are in addition other tests and distributional properties of the two aspects, of greater or lesser rigidity and applicability. Only imperfectives occur as infinitival complements of пассив verbs начать/начинать ‘begin’, продолжать ‘continue’, кончить/кончать ‘finish’. Imperfectives are more usual as final complements of verbs of motion (Зачем ты пошел навестить< imperfect > еще одного старого знакомого ‘In the morning I went to visit yet another old acquaintance’), though perfectives do occur (Наутро пошел навестить< perfect > еще одного старого знакомого ‘In the morning I went to visit yet another old acquaintance’). Only perfectives occur freely as the complement of the perfective удаться/удаваться ‘manage to, to be successful at’ (§6.5.10, with rare exceptions). As a rule (though with certain exceptions), only imperfectives can occur with an accusative specifying the duration of an interval over which an activity occurs (§6.5.6). As a rule, only perfectives occur with the temporal adverb за, since it implies a history in which an event occurs successfully within an interval of time, often against expectations: за одни сутки избу сложили< perfect > ‘they put together a hut within a day’. (Imperfectives are possible with за under specific conditions.) Thus these tests, above all the test of the periphrastic future, lead to an unambiguous and almost exhaustive partition of verbs into the two aspects.

6.4.3 Aspect and morphology: the core strategy
There is no single morphological unit that marks perfective or imperfective aspect. In this sense, the category of aspect is more a lexical classification than an inflectional category. But the number of morphological strategies is quite restricted, and they yield a common result: a sharp division of lexical items into perfective and imperfective.
The core pattern — the pattern which defines the Russian system, and which has been for a long time the most productive — is tripartite. Many verbs in Russian do not have a prefix. Such simplexes report continuous situations. These situations may be entirely static and unchanging: срнуть ‘be sad’, видеть ‘see’. Or they may involve some degree of gradual change and responsibility: сидеть ‘sit’, работать ‘work’, мотать ‘wind’, льстить ‘flatter’, крути́ть ‘wind’. Simplex verbs as a rule are imperfective.

Simplex verbs combine with one or more prefixes. Examples of prefixes and their most regular senses are given in Table 6.4. Prefixes impose a limit on the flow of states or activities in one of two ways. Many prefixes have two senses, qualitative and quantitative (or quantizing).

Qualitative senses of prefixes present an activity as a series of continuous changes leading towards a limit. After the limit is reached, no more of the change can be contemplated (in context). Thus от-крю́ть ‘remove by twisting’ defines a boundary, and indicates that some mobile entity is forced to move further away from the boundary:

[114] Я отку́рил по два болта слева и справа.
I unscrewed two bolts each on the left and right sides.

The activity of twisting is gradual and continuous, but when the definitive limit of removal by twisting has been reached, that activity no longer continues. The change typically affects an entity named as an argument of the predicate, the aspectual argument: the object of a transitive (the bolts in [114]) or the subject of an intransitive (При установке маховика нужно соблюсти момент затяжки болтов, чтобы он не открутить ‘During the installation of the fly-wheel, it is necessary to monitor the torque of the bolts so that it will not come unscrewed’). Because the change proceeds continuously to a goal, or telos, prefixal derivatives of this type are commonly termed telic.

Leading up to the final limit are gradual phases of change. The final change does not occur in one fell swoop; there are multiple phases before the final limit is reached. For this reason, these prefixed perfectives with qualitative meaning allow secondary imperfectives to be formed through the addition of a derivational suffix (secondary, as opposed to the primary, or simplex, imperfectives). Thus corresponding to the perfective от-крю́ть<PF>, there is a secondary imperfective от-крю́чивать<IF>. These secondary imperfectives maintain the idea of potential limit, or telos – от-крю́чивать invokes a limit of removal – but in context undermine or contradict the idea of reaching the limit in one or another respect:

19 Kartsevskii 1927. In a similar vein, see Brecht 1984.
<table>
<thead>
<tr>
<th>qualitative</th>
<th>quantizing</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>на-</strong> ACCUMULATION onto a surface</td>
<td><strong>на-</strong> ACCUMULATION of quantity, substantial relative to implicit standard</td>
</tr>
<tr>
<td>накручива́ть/накру́чивать 'twist onto'</td>
<td>на-де́лать/на-делывать 'make large quantity of'</td>
</tr>
<tr>
<td><strong>♂</strong> INGRESS into the interior of a space</td>
<td><strong>♂</strong> APPRAOCH to spatial limit</td>
</tr>
<tr>
<td>вкручива́ть/вкру́чивать 'insert by twisting'; в-пита́ть/в-питывать</td>
<td>вкручива́ть/вкру́чивать 'stomp into'</td>
</tr>
<tr>
<td>'absorb nourishment'; в-таптыва́ть/в-таптывать 'stomp into'</td>
<td>пута́ть/пута́ть 'tie up to'; в-таптыва́ть/в-таптывать 'stomp into'</td>
</tr>
<tr>
<td><strong>при-</strong> ARRIVAL at spatial limit</td>
<td><strong>при-</strong> ARRIVAL at spatial limit</td>
</tr>
<tr>
<td>при-кру́тивать/прикрручива́ть 'tie up to'; при-йти́/приходи́ть 'arrive'</td>
<td>при-кру́тивать/прикрручива́ть 'tie up to'; при-йти́/приходи́ть 'arrive'</td>
</tr>
<tr>
<td><strong>го-</strong> APPROACH to spatial limit</td>
<td><strong>го-</strong> APPROACH to spatial limit</td>
</tr>
<tr>
<td>го-скака́ть/го-ска́кивать 'hop up to'</td>
<td>го-скака́ть/го-ска́кивать 'hop up to'</td>
</tr>
<tr>
<td><strong>с-</strong> DESCENT in space; CONJUNCTION (= rapprochement) in space</td>
<td><strong>с-</strong> DESCENT in space; CONJUNCTION (= rapprochement) in space</td>
</tr>
<tr>
<td>с-лестя/c-лестъ 'climb down'; вкручива́ть/вкру́чивать 'twist together'</td>
<td>с-лестя/c-лестъ 'climb down'; вкручива́ть/вкру́чивать 'twist together'</td>
</tr>
<tr>
<td><strong>раз-</strong> DISPERSAL in space</td>
<td><strong>раз-</strong> DISPERSAL in space</td>
</tr>
<tr>
<td>рас-стегива́ть/рас-стёгива́ть 'unfasten'; вкручива́ть/вкру́чивать</td>
<td>рас-прости́ться/рас-прости́ться 'take leave, extensively, in all manners and degrees'</td>
</tr>
<tr>
<td>'wrap around; set spinning'</td>
<td>рас-прости́ться/рас-прости́ться 'take leave, extensively, in all manners and degrees'</td>
</tr>
<tr>
<td><strong>ис-</strong> EXTRACTION from space</td>
<td><strong>ис-</strong> EXTRACTION from existence of activity</td>
</tr>
<tr>
<td>из-дела́ть/из-дела́ть 'extract'</td>
<td>из-дела́ть/из-дела́ть 'extract'</td>
</tr>
<tr>
<td><strong>от-</strong> DETACHMENT from spatial limit</td>
<td><strong>от-</strong> DETACHMENT from existence of activity</td>
</tr>
<tr>
<td>от-вы́бивать/от-вы́бивать 'untie'; от-кру́тивать/от-кру́чивать</td>
<td>от-вы́бивать/от-вы́бивать 'untie'; от-кру́тивать/от-кру́чивать</td>
</tr>
<tr>
<td>'remove by twisting'; от-слы́вать/от-съязи́вать 'send off';</td>
<td>'remove by twisting'; от-слы́вать/от-съязи́вать 'send off';</td>
</tr>
<tr>
<td>от-прятывать/от-прятывает 'yank away'</td>
<td>от-прятывать/от-прятывает 'yank away'</td>
</tr>
<tr>
<td></td>
<td><strong>от-</strong> DETACHMENT from existence of activity</td>
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<td><strong>от-</strong> DETACHMENT from existence of activity</td>
</tr>
<tr>
<td></td>
<td>от-сиги́ть/от-сиги́вовать 'finish sitting'; от-страга́ть/от-страга́ть 'finish suffering'; от-дыша́ться/от-дыша́ться 'finish breathing'</td>
</tr>
<tr>
<td>qualitative</td>
<td>quantizing</td>
</tr>
<tr>
<td>-----------------------------------------------</td>
<td>-----------------------------------------------</td>
</tr>
<tr>
<td><strong>о́й</strong>-</td>
<td><strong>егресс</strong> from existence</td>
</tr>
<tr>
<td>егресс from interior of space&lt;br&gt; о́йкру́гть/о́йкручивать 'wring out'; о́йсыва́ть/о́йсы́ывать 'sprinkle out'; о́йпрыйть/о́йпрывать 'separate out by biting'; о́йсорди́ть/о́йсордывать 'fence off (thereby separating)'; о́ймазать/о́ймазывать 'smear thoroughly'&lt;br&gt; <strong>ýъ-</strong>&lt;br&gt; TRANSCENDENCE of spatial threshold, from one domain into another&lt;br&gt; ýъ-чувь/ýъ-ткать 'flow, run away'; ýъ-скользну́ть/ýъ-скользкать 'slide away'; ýъ-плы́ть/ýъ-плывать 'swim away'; ýъ-устать/ýъ-пусты́ть 'let slip away'; ýъ-смнуть/ýъ-смывать 'dry out and diminish'&lt;br&gt; <strong>пó-</strong>&lt;br&gt; ATTENUATION over points in space&lt;br&gt; пó-лить/pó-ливать 'begin to pour'&lt;br&gt; <strong>о(б)-</strong>&lt;br&gt; CIRCUMVENTION around a circular space&lt;br&gt; окрывать/о-крывать 'twist around'; о-блостять/о-блывать 'flatter, deceive, seduce'; о-блы́ть/о-блывать 'lick around one's lips'; о-живать/о-живать 'bring to life'&lt;br&gt; <strong>пе́р-</strong>&lt;br&gt; TRANSGRESSION through space or occasions (= repetition)&lt;br&gt; пе́рекру́гть/пе́рекрываеть 'rewind'; пе́релостять/пе́релывать 'bring around through flattery'; пе́речитать/пе́речита́ть 're-read'</td>
<td><strong>егресс</strong> from existence&lt;br&gt; вб-пачать/вб-пачаться 'thoroughly soil'; вб-спаться 'sleep one's fill'&lt;br&gt; <strong>ýъ-</strong>&lt;br&gt; TRANSCENDENCE of the threshold of existence&lt;br&gt; вь-вигать/вь-вы́гаться 'catch sight of'; вь-ситься/вь-скаживаться 'sit for a good spell'&lt;br&gt; <strong>пó-</strong>&lt;br&gt; ATTENUATION of quantity or duration of activity&lt;br&gt; пó-лысть/пó-лыться 'flatter somewhat'; пó-грустнуть/пó-грустнуть 'be sad for a while'; пó-лежать/пó-лежать 'lie for a bit'&lt;br&gt; <strong>о(б)-</strong>&lt;br&gt; CIRCUMVENTION of affect, along all parameters&lt;br&gt; об-летать/об-летать 'fly exhaustively'&lt;br&gt; <strong>пе́р-</strong>&lt;br&gt; TRANSGRESSION of normative quantity&lt;br&gt; пе́рекронять 'bury in large numbers'</td>
</tr>
</tbody>
</table>
pro- suffusion through space
    prokrutit’/pro-kruchivat’ 'twist, wind through’;
    prosmotret’/pro-smatrivat’ 'look through’;
    provetrit’/pro-vetrivat’ 'thoroughly air out’
za deflection from inertial path
    zakrutit’/zakru’vhat’ 'twist around’; za’ity/za’xodit’ 'drop in’;
    zagli’vat’/zgli’vat’ 'have a quick look at on the sly’;
    za-viat’/zav’iat’ 'wind around’

nog- subvention under surface
    nogot’ity/nog’xodit’ 'come up on’; nog’stupit’/nog’stupat’ 'step
    up to’
nag- supervention over a surface
    nasrezat’/nasc’rat’ 'cut on surface’
bez- supervention along a vertical dimension
    bez-let’et’/bez’letat’ 'ascend’
for example, the activity is repeated, even though on each occasion it may reach
the limit (на каждой остановке он бросал в кассу монетки и откручивал себе
билет 'at each stop he put money in the box and twisted himself off a ticket');
the activity with a potential limit is caught in progress (гости молчали, ректор
Кайзер старательно откручивал пуговицу у смокинга 'the guests were silent,
Rector Kaiser was assiduously twisting off the button on his jacket'); the import
is the existence of an activity or attempted activity (Сергей откручивал болт
и потел 'Sergei was trying to unscrew the bolt and was sweating'); or some
details of the activity as it progresses are reported (он не помнит, где он пробку
откручивал 'he doesn't remember where he twisted the stopper out'). These
prefixed perfectives that have a sense of continuous activity readily form sec-
ondary imperfectives, and the morphologically derived secondary imperfectives
are particularly close in meaning to the corresponding perfectives. Together,
qualitative perfectives and their secondary imperfectives are true aspectual pairs.

Other senses of prefixes place limits on the very nature of the activity: they
treat the activity in discrete quanta. Such prefixed perfectives could be termed
quantifying or even quantizing, since they deal with discrete quanta of
activity. The activity either exists or not, or exists over a certain quantity
of time, or leads to a certain measurable, quantitative result. For example, за-
grustit' 'begin to be sad' talks about the inception of a state, where incep-
tion is quantitative, in the sense that the activity goes from none to some; по-
grustit' 'be sad a bit' attenuates the duration of the state to a limited period;
наслухаться (всяких небылиц о нас TOLKienistsах) 'listen to a sufficient quantity
(of all kinds of nonsense about us Tolkien fans)' means that a large quantity of
nonsense has been heard. Quantizing perfectives have an all-or-nothing quality
to them. The quantum result is achieved only over a whole interval of time. For
this reason, such perfectives form secondary imperfectives reluctantly. There are
no regular secondary imperfectives associated with за-grustit', по-grustit', or
наслухаться. When quantizing perfectives do form secondary imperfectives, the
imperfective is often used only in a specific sense, the iterative sense of achiev-
ing the quantitative result over multiple separate occasions: на-кручивать is
a possible imperfective, but only in the sense of repeated instances of preparing
in quantity.

While prefixed perfectives and their corresponding secondary imperfectives
form canonical aspect pairs, the status of simplex verbs is less transparent. Be-
cause (as a rule) simplex verbs simply name a state or activity, they have no
intrinsic boundaries, and (as a rule) are imperfective. If a context demands a

21 Isačenko 1975 calls the distinction modificational vs. quantitative. E. Adger Williams (p.c.) sug-
gested the term “quantizing” – operating with discrete quanta rather than scalar properties.
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A perfective corresponding to a simplex imperfective naming a state or activity, a perfective formed with a quantizing prefix can often be used. For instance, *послествыв* is listed as the perfective corresponding to simplex *постстыв*. But the relationship between simplexes and quantizing perfectives is not as clear-cut as the relationship of perfective and secondary imperfective. Quantizing prefixes impose an additional – quantizing – meaning, and the particular prefixed derivative used is not always unique. Thus *закрутить* ‘begin to twirl’ and *скрутить* ‘roll’ both are listed as perfectives for the simplex *крутив*ь. These prefixed derivatives add some meaning to the imperfective; for example, *закрутить* introduces the idea of inception of the activity. In fact, both *закрутить* and *скрутить* also have secondary imperfective derivatives, *закрутивать* and *сокрутивать*. Additionally, the semelfactive *куртивуть* ‘twirl once’ is also listed as a perfective to *крутив*. Thus the relationship between simplex imperfectives and perfectives is more complex than simple pairing: more than one perfective can be related to a given simplex, and the perfectives used for this purpose have an additional quantizing component of meaning.

In summary: Simplex imperfective verbs are prefixed and yield perfectives. Many of those perfectives – those that report a continuous process leading to a limit – can be suffixed and yield closely related secondary imperfectives that form unambiguous aspectual pairs. Prefixed verbs that discuss discrete quanta of the activity are less amenable to forming secondary imperfectives. Because simplexes ordinarily are imperfective, one or another of the prefixed perfectives will serve as the perfective counterpart to the simplex imperfective.

6.4.4 Aspect and morphology: other strategies and groups

Semelfactive suffixation: With simplex verbs that report a cyclical or intrinsically repetitive process, adding the suffix {-nu-} (in more explicit terms, {-nu-}  \sim  \{\text{\textit{\text{-n}}}\}  \sim  \{\text{\textit{\text{-n}}}\}  \sim  \{\text{\textit{\text{-n}}}\}  \sim  \{\text{\textit{\text{-n}}}\}) gives a perfective verb reporting a single occasion of the cyclical activity: *кричать* (infinite) \~ *крчкнуть* (perfective) ‘cry’; *махать* (infinite) \~ *мхнуть* (perfective) ‘wave’, *глотать* (infinite) \~ *глотнуть* (perfective) ‘swallow’.

Bi-aspectual, anaspectual verbs: A small number of verbs are said to be bi-aspectual. This group includes: life-cycle verbs *жениться* (marry), *креститься* (baptize), *родить* (give birth to); verbs of communication *велеть* (order), *обещать* (promise); verbs of affect *ранить* (wound), *казнить* (punish). For these verbs, one and the same form can be used in contexts where imperfectives are used and in other contexts where perfectives are used. For example, *жениться* (marry) can make periphrastic futures and be used in iterative contexts, as is characteristic of imperfectives ([115]).
Homosexuals from the whole world will get married in Prague.

But the same verb can also be used as perfective, to refer to a single completed event in the past or the future: Петя женился через три месяца ‘Petia will marry in three months’.

Though the term “bi-aspectual” is widely used, it might make more sense to think of these verbs as anaspectual – that is, these are verbs that do not have a clear alignment in the aspect system. Rather than belonging to both aspects, they have no aspect, and accordingly can, to some extent or another, be used in contexts in which one would otherwise expect either perfective or imperfective. (A class of anaspectual verbs could include быть ‘be’, which is hard to classify as one or the other aspect.) Consistent with this, individual verbs are losing their dualistic behavior, and over time come to behave more as one aspect or the other.22 Родить(ся) ‘give birth to (be born)’ is now usually used as a perfective, opposed to a regularly used imperfective родиться, but its older anaspectual quality is revealed in gnostic present-tense statements (земля хорошо родит ‘the land is fecund’). Ранить ‘wound’ avoids being used as a past-tense iterative. Обещать ‘promise’ is more often imperfective than perfective; for the perfective sense, the unambiguous perfective пообещать is now usual. Жениться, as a perfective, has been superseded by пожениться, at least with plural subjects.

An occasional verb seems to have made the transition from imperfective to perfective on the basis of being used frequently in contexts that normally call for perfectives. The verb бежать, in the particular sense of ‘flee from confinement or danger’, is used in narrative contexts that look perfective; гевать(ся) ‘place, put’ is similar.

Old aspect pairs: Another old, residual layer is the set of verbs that differ in aspect and differ only in the classificatory suffix: решать/решить ‘decide’, стать/становиться ‘become’, статься/оставать ‘stand up’, убедить/убеждать ‘convince, persuade’.

Borrowings: Foreign borrowings go through a life cycle of development towards pairing. In the first phase the verb is anaspectual. Then it can be prefixed, and one of the prefixed derivatives will serve as the perfective partner; prefixes commonly used in this function are o-, за-, на-, c-. The prefixed verb is an unambiguous perfective, which pushes the simplex towards imperfectivity. Examples: моделировать ‘model’, смоделировать ‘model’, регулировать ‘regulate’.

22 See Zalizniak and Shmelev 2000:71–76, who document that some collocations used in the nineteenth century are no longer usual.
Mood, tense, and aspect

Sometimes a prefixed verb of this type can serve as the basis of an imperfective derived by suffixation: планировать 'plan', перепланировать<PF> 're-plan', перепланировать<1F> 're-plan'. This recapitulates the core, tripartite system of Russian.

There is an alternative path of development, infrequent and now outmoded. The unprefixed borrowing организовать 'organize' was suffixed, giving организовывать. Организовывать is used in the present tense to report ongoing or generic activities. The two forms are differentiated in the past, when организовать reports a single, completed event, and организовывать is used as an imperfective for repeated actions. In the infinitive организовать has perfective force. This limited pattern is attested for организовать and арестовать|арестовывать 'arrest'.

Prefixed imperfectives: There is an exception to the rule that prefixes necessarily make perfective verbs, and that is the possibility of using the imperfectivizing suffix {{-iva} ~ {-iva(j)}} while adding certain prefixes to make unpaired imperfective verbs: посвечивать 'shine off and on' (светить 'shine'), попахивать 'smell a bit' (напахать 'emit a smell'), назнавивать 'keep on ringing' (звонить 'ring'), пришептывать 'whisper while engaged in another activity' (шептать 'whisper').

6.4.5 Aspect pairs
In the Russian aspect tradition, much emphasis has been placed on whether verbs are paired for aspect – whether for a given verb, there is one and only one corresponding verb of the opposite aspect that has the same meaning except for the difference in aspect.

An imperfective verb counts as the partner of a perfective if it is used to replace a perfective verb in contexts in which the event is iterated ([116] to [117]) or to transpose past narrative into the historical present ([118] to [119]):

[116] Он вошел<PF PST> в дом, поднялся<PF PST> по лестнице, открыл<PF PST> дверь, поставил<PF PST> чемодан, зажег<PF PST> свет, сел<PF PST> в кресло и закурил<PF PST> сигару.
He went in the house, climbed the stairs, opened the door, put down the suitcase, turned on the light, sat down in the chair, and lit a cigar.

[117] Он входил<PF PST> в дом, поднимался<PF PST> по лестнице, открывал<PF PST> дверь, ставил<PF PST> чемодан, зажигал<PF PST> свет, садился<PF PST> в кресло и закуривал<PF PST> сигару.

[23] Zalizniak and Shmelev 2000:47–52 ([116], [118]).
He would come into the house, climb the stairs, open the door, put down the suitcase, turn on the light, sit down in the chair, and light a cigar.

He went out to the yard, caught a butterfly and brought it home.

He goes out to the yard, catches a butterfly and brings it home.

A perfective verb counts as the partner of an imperfective if it is used to convert a description of overlapping scenes into narrative sequence ([120] to [121]):

The old Chinese man surveyed the empty horizon, kept silent and was engrossed in his own thoughts.

The old Chinese man surveyed the empty horizon, was silent for a while and eventually made a decision.

Prefixed perfectives and their secondary imperfectives, such as гописать/гописывать ‘finish writing’, оглядеть/оглядываться ‘look around’, открывать/открываться ‘open’, наказать/наказывать ‘punish’, satisfy these criteria for pairedness. In this way, many verbs of Russian can be viewed as members of aspectual pairs.

Simplex verbs, which by nature are quite broad in their meaning, participate in aspectual relations that are somewhat different. As noted, simplex verbs are typically imperfective, and they can be associated with more than one prefixed perfective derivative. In many instances, there is one prefixed perfective derivative that can be used as the closest thing to a perfective partner that simplex verbs have. In some instances, the prefix seems to have lost its meaning (писать ‘write’, неписать; таять ‘melt’, рас-таять; творить ‘make, create’, сов-творить) but more commonly the prefixed derivative still has a trace of its own meaning. Thus prefixed derivatives in за- maintain the sense of inception (творгет ‘gradually become hard’, за-творгеть ‘harden’); derivatives in но- maintain the sense of small or unexpected change (по-йти ‘set off in new direction’; по-бойться ‘experience a reaction of fear’; посолить ‘add some salt’). The prefix но- is quite productive, and it is moving in the direction of becoming an all-purpose perfectivizing prefix. It sometimes happens that more than one prefixed form can be used, especially in borrowings; for example, Ozhegov lists as perfectives of регулировать derivatives in γ-, от-, за-.

Perhaps more to the point is that simplex imperfectives have wide ranges of senses and uses, wider than the prefixed derivations that might be considered to be their partners, whereas with prefixed perfectives and their
secondary imperfectives, the meaning of the second imperfective is dependent on the meaning of the prefixed perfective. In these respects, the relationship between simplexes and verbs impressed into service as perfective partners is less close and less determined than the relationship between prefixed perfective verbs and their corresponding secondary imperfectives. In short, secondary imperfectives are based on their prefixed perfectives, while simplexes provide the basis for their near-partners, formed with quantizing prefixes or \{-nu\}.\(^{24}\)

6.4.6 Intrinsic lexical aspect

It is common in studies of English and Western European languages to invoke a classification of lexical items according to their intrinsic semantics, or\textit{ lexical aspect}, often the four-part classification proposed by Z. Vendler (1957).\(^{25}\) One can adapt Vendler’s system to Russian, but the insights are modest. Simplex verbs, as a rule, express states (ви́деть ‘see’, слышать ‘hear’, грустить ‘be sad’) or processes/activities (кру́тить ‘twist, twirl’, делать ‘do’), but Russian is not as concerned with this distinction as English, which forms the progressive from stative predicates less freely than from activities. Prefixed perfectives, as noted above, are likely to express activities that progress to a cumulative result: in Vendler’s terms, these are accomplishments, or in Maslov’s terms, predicates with a telos, or “intrinsic limit.” In Russian, such “accomplishments” are likely to allow the formation of secondary imperfectives, which are then telic activities: they have something of accomplishments but they are activities. The Russian analog to Vendler’s fourth class, achievements, includes changes of state – verbs reflecting changes from one polarity of a state to another (увидеть ‘see, catch sight of’, услышать ‘hear [suddenly, as opposed to not hearing]’).\(^{26}\) Such verbs do not form secondary imperfectives. Together with them might be grouped the various kinds of quantification (quantizing) discussed in connection with prefixes: of duration (просыпа́ться ‘sleep through’), of distance (на́ездить ‘travel through’), of result (насо́лить огуре́цы ‘pickle [many] cucumbers’), of inception (захо́диться ‘begin to walk’). Quantizing verbs allow derived imperfectives freely only in an iterative sense.

There are, then, something like analogs to Vendler’s four classes of predicates, but a Vendlerian classification does not do justice to the most characteristic

\(^{24}\) In the vocabulary of structuralism (though this is not the view of, for example, Roman Jakobson), simplex imperfectives are “unmarked” with respect to the perfectives with which they are associated, but secondary imperfectives are “marked” with respect to the prefixed perfectives.


\(^{26}\) Lubensky 1985 notes that, unlike most perfectives, these verbs do not readily allow a resultative or perfect reading: – Вы ви́дели этот филь́м? ‘Have you seen that film?’ will not be answered with

*= Да, я данно уви́дел.
feature of Russian aspect: secondary imperfectives that presume a limit (like Vendler’s accomplishments) but insist on the failure to reach a limit (like Vendler’s activities).

In connection with lexical aspect, it is useful to mention a specialized group of verbs whose imperfective reports a process, but the process is an attempt. Such conative verbs form the classic phrase: я его убеждал.<IF>, убеждал.<IF>, и наконец убедил.<PF> ‘I tried to convince him, tried to convince, and finally convinced him’.

6.4.7 Verbs of motion
A set of approximately a dozen verbs that describe physical motion in space have unusual properties with respect to aspect. Notably, these “verbs of motion” have two simplex imperfectives.\(^{27}\) One set, indeterminate simplex verbs such as ходить ‘walk’, бежать ‘run’, are used to express: motion that is not directed to a single goal ([122]); a roundtrip on a single occasion ([123]); or the essentialist idea of a certain type of activity ([124]):

\[122\] Я шагал по Москве, ездил.<IF> зайцем в трамваях, и все безрезультатно.
I stepped throughout Moscow, took rides on trams without paying, all to no avail.

\[123\] Ещё в начале лета в Москву ездила.<IF> моя сестра Соня и, вернувшись,
рассказала мне об этой девочке.
At the beginning of the summer my sister Sonia went to Moscow and, once she
returned, told me about this girl.

\[124\] Это Алина. Ей восемь месяцев. Она уже ходит.<IF>.
This is Alina. She’s eight months old. She’s already walking.

The other set of simplex verbs, for example, идти ‘walk’, бежать ‘run’, are determinate. They express motion that has a single direction towards a goal on a single occasion. Determinate verbs are used in the progressive ([125]) or durative sense ([126]):

\[125\] Помнится, ехали.<IF DT> мы однажды большой компанией в Москву.
I remember how once we were going in a large group to Moscow.

\[126\] Долго же вы ехали.<IF DT> !
You sure traveled a long time.

When motion is iterated, both types of verbs occur. Indeterminate verbs are used when the multiple acts are viewed as a habit, even if the acts have a goal ([127–28]):

\(^{27}\) Isačenko 1975:419–42.
Every Saturday a large group of us would go to the theater, in just such a group would go on Sundays to the Osorgins, and ski there.

Determinate verbs are used when the individual sub-events attract attention, for example, if each token of motion is sequenced with respect to other events:

If it was hot, he would go to the river, get undressed, throw himself into the water, and swim to the opposite bank and back.

Verbs of motion have interesting properties when they are prefixed. To make qualitative perfectives, the prefix is added to the determinate. The stem for the corresponding secondary imperfective is selected or formed in one of four ways. In strategy 1, the imperfective is formed by prefixing the indeterminate stem directly (6 roots, e.g. ‘drop in, deviate from inertial path towards a new destination’, likewise ‘run across’, ‘ride out’). In strategy 2, the secondary imperfective uses the indeterminate stem, but is suffixed with the classificatory suffix \{CVC-ą : CVCąj|e|\} (3 roots, e.g., ‘climb down’, also ‘finish one’s sailing days’, ‘spend a whole...'). Strategy 4 consists of adding the productive suffix \{-iva : -ivaj\} to the indeterminate stem (2 roots, e.g., ‘finish one’s sailing days’).
Table 6.5 Verbs of motion

<table>
<thead>
<tr>
<th>gloss</th>
<th>determinate</th>
<th>indeterminate</th>
<th>qualitative imperfective</th>
<th>secondary imperfective (strategy)</th>
<th>quantizing perfective</th>
</tr>
</thead>
<tbody>
<tr>
<td>‘walk’</td>
<td>идти</td>
<td>ходить</td>
<td>зайти</td>
<td>заходить (1)</td>
<td>заходить</td>
</tr>
<tr>
<td>‘ride’</td>
<td>ехать</td>
<td>ездить</td>
<td>переезжасть</td>
<td>переезжасть (2)</td>
<td>объездить</td>
</tr>
<tr>
<td>‘run’</td>
<td>бежать</td>
<td>бегать</td>
<td>добежать</td>
<td>добежать (2)</td>
<td>набегаться</td>
</tr>
<tr>
<td>‘fly’</td>
<td>лететь</td>
<td>лёгать</td>
<td>влететь</td>
<td>влететь (1)</td>
<td>залетать</td>
</tr>
<tr>
<td>‘swim’</td>
<td>плыть</td>
<td>плывать</td>
<td>уплывать</td>
<td>уплывать (3)</td>
<td>нырять</td>
</tr>
<tr>
<td>‘crawl’</td>
<td>ползти</td>
<td>ползать</td>
<td>наколзить</td>
<td>наколзить (2)</td>
<td>заползать</td>
</tr>
<tr>
<td>‘carry’</td>
<td>нести</td>
<td>носить</td>
<td>вьнести</td>
<td>переносить (1)</td>
<td>переносить</td>
</tr>
<tr>
<td>‘lead’</td>
<td>вести</td>
<td>водить</td>
<td>отвести</td>
<td>подвести (1)</td>
<td>поводить</td>
</tr>
<tr>
<td>‘convey’</td>
<td>везти</td>
<td>возить</td>
<td>привезти</td>
<td>привезти (1)</td>
<td>привозить</td>
</tr>
<tr>
<td>‘drive’</td>
<td>гнать</td>
<td>гонять</td>
<td>подгонять</td>
<td>подгонять (1)</td>
<td>перегонять</td>
</tr>
<tr>
<td>‘drag’</td>
<td>тащить</td>
<td>таскать</td>
<td>втащить</td>
<td>втащить (4)</td>
<td>натаскать</td>
</tr>
<tr>
<td>‘climb’</td>
<td>лезть</td>
<td>лазить</td>
<td>слезть</td>
<td>слезть (3)</td>
<td>пролазить</td>
</tr>
<tr>
<td>‘wander’</td>
<td>брести</td>
<td>бродить</td>
<td>добрести</td>
<td>добрать (3)</td>
<td>побродить</td>
</tr>
<tr>
<td>‘roll’</td>
<td>катить</td>
<td>катать</td>
<td>вскачать</td>
<td>вскачать (4)</td>
<td>обкатать</td>
</tr>
</tbody>
</table>

interval of time driving’, слетать ‘fly there and back’, наезжать ‘cover great distance driving’, извёздить ‘exhaustively travel’. There is a potential for ambiguity. For some verbs, the quantizing perfective (for example, заходить<PF> ‘begin to walk’) is the same as the imperfective derived by strategy 1 (заходить<IF>, imperfective of зайти<PF> ‘drop by, deviate from path’). The motivation for using the indeterminate in this way is presumably that it expresses the sense of the essential activity, the activity in and of itself (§6.5.4); it is that sense which is quantified.

Table 6.5 lists verbs of motion with some representative derivatives. Intransitives are listed above transitives, with the more marginal members at the bottom.

The usage of aspect of prefixed verbs of motion is generally similar to other aspectual pairs. The perfective reports a single event, the imperfective is used, for example, for events in progress (Когда мы только подходили<IF> к этому самому древнему на севере городу, нас поразило количество храмов ‘As we were just approaching this most ancient northern city, we were astounded by the number of churches’) or iterated events (Перехожу приходи<IF> доктор Никольский ‘Not rarely, Dr. Nikolsky came’). Noteworthy is the fact that the perfective is used only when the aspectual argument (subject of intransitives, object of transitives) is still at the destination at the time when the next event occurs.
The imperfective is used when the mobile entity is no longer at the destination; in [131], the narrative immediately reports on Tolstoy’s activities after he has returned from his trip:

To him in Bogoroditsk Lev Tolstoy once came to talk about faith and subsequently described the estate as the estate of the Vronskys.

The use of the imperfective here is similar to the use of the imperfective for reversed results: я открыл окно ‘I did open the window [though it is now closed’].

6.5 Aspect and context

6.5.1 Preliminaries

As noted (§6.4.1), aspect is first of all a division of the lexicon into two groups, but beyond that, it is a series of expectations about the relationship between these lexical groups and context. Each aspect is used in characteristic contexts. Some contexts allow both aspects, some are inclined to require one or the other aspect.

6.5.2 Past “aoristic” narrative: perfective

In narrative in the past tense, events often follow each other in sequence. Typically, at any point in the narrative, a preceding perfective event will have left us with a resulting state and expectations about what might happen in the future, relative to that time. In the narrative of [132], the act of hiding opens up two possible futures, in one of which mother and child remain hidden; in another, they might not, with all the unpleasant consequences that implies:

They tell how a Cossack woman during an uprising hid with her child in the hollow in a hundred-year-old tree. A soldier poked with his bayonet around the hollow, stuck it full of holes, injured the child. But the little Cossack lad did not cry out, and so they were saved.

[130] Я зашел в библиотеку и взял книгу Стейнбека «Гроздья гнева».
I stopped by at the library and got Steinbeck’s book, The Grapes of Wrath.

[131] К нему в Богородицк разговаривать о вере приезжал Лев Толстой и впоследствии описал значение, как значение Вронских.

To him in Bogoroditsk Lev Tolstoy once came to talk about faith and subsequently described the estate as the estate of the Vronskys.

28 The fact that bounded aspects (aorist, perfective) are used for advancing sequential narrative has been known at least since Goodwin 1880/1965. For observations on specifically Slavic material, see Maslov 1984[a], 1984[b], Paducheva 1996.
After this initial event, other events follow. The thorough poking of the tree by the soldier follows from the previous hiding (the soldier must have been suspicious), and this act generates again the expectation that they might be discovered. This expectation is frustrated with the final negated perfective: the child failed to begin to cry when one might have expected it. This naive oral text illustrates how, in narrative, each event responds to prior possibilities and in turn generates new expectations (new future divinations).

It is a commonplace to observe that narrative is carried out by using perfective verbs, while, in contrast, description and commentary are expressed by imperfective verbs. It is common to see diagrams in which perfective events are located in sequence along one axis of a diagram, one after the other, and imperfectives are positioned on the other axis, simultaneous with other events. Indeed, in the brief narrative of [132], most of the verbs are perfective (спряталась 'hid', заплакал 'began to cry', спаслился 'be saved'). But one, шарить 'fumbled around', is a simplex imperfective, and ранил 'injured' is an aspectual, and they are put in sequence with other events. True, шарить by itself does not state a definitive change, but names a kind of activity: there existed, for an indeterminate interval of time, an activity that can be identified by the name of poking. This imperfective requires some other verb to give us a new result, here изрешетить. Evidently, imperfectives can be located in the temporal sequence of events, but they still do not implement the cycle of result and divination that is characteristic of narrative. Perfective verbs create narrative not only by putting events in temporal sequence, but also by leading to new results and new expectations. Narrative, then, has a rich cycle: there are inherited expectations; the current event that responds to these prior expectations, yielding a new result and new expectations. This cycle is sharper with perfectives, but imperfectives can participate to some extent.

In context, perfectives often (perhaps almost always) have certain overtones: action viewed as whole, singularity of action, and result.

6.5.3 Retrospective ("perfect") contexts: perfective and imperfective
While it may be usual for a narrative in the past tense to keep progressing in a series of perfective events, each following immediately after the other, it is nevertheless possible to look retrospectively back from the contextual occasion to some further time in the past. Such retrospective contexts in English would use the pluperfect or perfect. In Russian, events viewed retrospectively are expressed simply in the past.

[133] Она и раньше собиралась вернуться в Богородицк, посмотреть, как мы живем.
She even earlier had been planning to return to Bogoroditsk, to see how we were getting along.

With Sergei Istomin I had become friends even earlier.

There is no direct correlation between retrospection and aspect, though perfectives occur more often in this function, because they lead to a result that can be discussed ([134]), but imperfectives can be used as well ([133]). Also, perfectives are often used to summarize the cumulative results of a series of events; a summary perfective is then not in sequence with other events.

Thus we have completed a brief excursus into the history of achievements and failures of our hero.

6.5.4 The essentialist context: imperfective

An imperfective history is one in which there is continuity over phases. There are many ways in which an imperfective history can express continuity and lack boundaries.

Often, without much context, the imperfective establishes the existence of an activity of a certain type, in opposition to the possible absence of activity or to the existence of other types of activity. This sense is analogous to essentialist reference of arguments, and could be termed the existential or essential imperfective.

To illustrate: what we can say about the village is that it is crossed by a highway ([136]); what we can say by way of explanation of the midnight disturbance is that there was a fire burning ([137]). In both instances, all that is relevant is that the world at this time includes states or activities of a certain type. The imperfective, then, can have the function of establishing the existence of a state or activity of a certain type.

The imperfective is appropriate, further, in contexts whose import revolves around the polarity of the event – whether it exists at all – even when a single event is under discussion. More specifically, the imperfective can be used to question whether an event exists:
An imperfective can be used to insist emphatically that an activity has occurred, even if the consequences are uncertain:

В этом году я уже брал разпуск.
I have already taken a leave this year.

— Надо было заявить тогда же, — сказал он.
— Я заявлял.
— You should have made a statement at the time, — he said.
— I did make a statement.

As in [140], the essentialist imperfective can be understood to include those instances described as “reversal of result” or the like. Some activity takes place that one might expect to lead to a certain result. Using a perfective would imply that the result has been achieved and the resulting state has continued. If the state is reversed or canceled, the imperfective can be used to indicate that some of a certain kind of activity has occurred, though it has not led to the expected permanent result. Prefixed verbs of motion show this behavior, as does открыть/открывать ‘open’: он открывал окно ‘he opened the window’ can be used when the window is no longer open. As in [140], this sense of the imperfective often reflects an attempt (conation).

The imperfective can also be used when a past event is negated, though the perfective is also an option. The difference revolves around the way in which the speaker conceptualizes the possible occasions for an event. In narrative, the perfective indicates that the possible time when the event might have occurred (even though it did not) is bounded and placed in sequence ([141]), while an imperfective leaves the door open to further change ([142]):

[141] Неудача не остановила мою мать. Ей посоветовали организовать артель.
Мать написала письмо хорошей нашей знакомой, Анне Васильевне Бибиковой.
This failure did not stop mother. They advised her to organize an atelier. She wrote to our friend, Anna Vasilevna Bibikova.

[142] Часовой не останавливался. До него оставалось десять метров. Восемь.
The sentry did not stop. There remained only ten meters. Then eight.

In dialogue (specifically, in a negative response to a question with a perfective verb), the perfective is used if both interlocutors agree that the event was

29 Merrill 1985, with references ([142]).
expected to have occurred on some delimited occasion ([143]): 30

[143] – Вы взяли ключи?
  – Нет, не взял.
  – Did you take the keys?
  – No, I didn’t [though I acknowledge that I could have].

The imperfective would be possible (‘Нет, не брал’) in order to deny the implicit obligation or to suggest that the matter is still open.

By an extension of the concern with existence and polarity, an imperfective is appropriate when descriptive aspects of a situation are reported or questioned.

[144] Умирая, Борис Леонидович в сознании.
  Boris Leonidovich was conscious as he died.

[145] Кто писал ‘Войну и мир’?
  Who wrote War and Peace?

Here the existence and the nature of the event are taken for granted, and the attention falls on particulars, on attendant circumstances rather than on the final result.

Thus the imperfective can be used with little context to assert the existence of an activity, to comment on its polarity, or to provide descriptive detail about the flow of an activity. A perfective verb used in similar contexts would insist on change and result.

6.5.5 Progressive context: imperfective

Events can occur in sequence, or they can overlap on the same contextual occasion. 31 An event that overlaps others is typically expressed by the imperfective:

[146] Я уже ставил с кресла, как зазвонил телефон.
  I was already getting up from the chair, when the phone rang.

In [146], an imperfective (вставал) is used to report an activity that is not definitively ended because it is in progress around the contextual occasion.

The Russian imperfective used in this sense is analogous to the compound progressive tense-aspect of English. As is well known, almost all instances of English progressives will be translated into Russian as imperfective. 32 The converse does not hold: not every instance of a Russian imperfective will be translated into

31 See the contrastive studies of Akimova 1984 and Kozintseva 1985.
32 As an exceptional instance, Kozintseva 1985:68 cites Those three – those three were coming in!, which is translated as the perfective in Те трое – те трое тоже вошли в компьютерную. The original context is quite specific - it is interior monologue predicting an imminent result.
an English imperfective. Iteratives (§6.5.7) and duratives (§6.5.6) are the obvious cases. In addition, essential (descriptive or existential) imperfectives do not translate to progressives in English (§6.5.4: [132], [144]). The English progressive is narrower in its range than the Russian imperfective.

6.5.6 Durative context: imperfective

If an activity is expressed by the imperfective in a past-tense narrative, it cannot reach its completion (otherwise it would be perfective); the imperfective establishes the existence of some activity with the implicature that the result was not reached and would not be reached in the immediate vicinity of the contextual occasion. This implicature can be made explicit by adding to the sentence an accusative specification of the duration of the activity: the activity went on for this period of time, but then ceased, without reaching its conclusion.

[147] После гибели Плотникова горстка бойцов до утра отбивала натиск гитлеровцев. В последней рукопашной схватке все они погибли.

After Plotnikov died a handful of soldiers repelled the pressure of the Hitlerites until morning. In the final hand-to-hand combat they all perished.

[148] Его увлек в той каморке один, пришел военный, заставил меня раздеться, тщательно обыскал, потом ушел. Я ждал, наверное, часа два, вывели наружу, посадили одного в крытый грузовик, провезли всего за полверсты на прославленную ужасами Лубянку.

They took him away, and I remained in the place alone. A soldier came in, made me undress, searched me carefully, then left. I waited about two hours, they led me out, put me in a covered truck, and took me the half verst to the Lubianka Prison, famous for its horrors.

To know that the activity has ceased without reaching a definitive result implies an external narrative perspective. (This is in contrast to the “progressive” use of the imperfective, when the contextual occasion is internal to the activity in progress.) Accordingly, durative imperfectives can easily be sequenced in narratives between perfective events. In [147] one phase of the battle lasted until morning, then another, fateful event occurred. In [148], the delimited interval of waiting is sandwiched between events in a highly sequential narrative. Because the contextual occasion must be closed to be measured, duratives

33 The familiar fact that explicit statements of duration require the verb to be imperfective (except for prefixed quantizing verbs in npr) needs to be repeated, for it shows that perfective aspect in Russian is not merely the end of an interval of activity; a perfective requires that no further activity be conceivable, from the perspective of the specific history at that contextual occasion. In fact, in its use of the imperfective for terminated events, Slavic is typologically unusual (Dahl 1985).
are nearly as sequential in force as perfectives. This is another instance in which the adage that perfective advances while imperfective retards narrative is incomplete.

A bare accusative of time normally occurs only with imperfective or anaspec-
tual predicates. A systematic exception is perfective derivatives with the prefix pro-, which use bare accusatives to measure a closed interval of time:

\[149\] Прибыл он в монастырь 5 февраля к вечерне. Патриарх прогостил, пять, дней. Возвратился в Москву 11 февраля. He arrived at the monastery on February 5 at vespers. The patriarch stayed five days. He returned to Moscow February 11.

\[150\] Проспал, я двадцать два часа подряд. I slept twenty-two hours straight.

\[151\] Вы знаете, что наш общий друг Б. С. Кузин, у которого я гостил, десять, дней, резко отрицательно относится к Л. Толстому. As you are aware, our mutual friend B. S. Kuzin, with whom I stayed for ten days, is very negatively disposed to L. Tolstoy.

These perfective derivatives in pro- present the interval as closed, without the lingering possibility that the activity could continue; they normally place the event in narrative sequence with others. An imperfective would merely assert the existence of an activity: in \[151\], гостил десять дней ‘he was a guest for ten days’ – and could have been a guest for longer; он спал два часа ‘he slept two hours’ – he could have slept more. Only exceptionally can other perfectives be combined with an accusative expressing duration, as in:

\[152\] Отдохнув, часок, другой, мы вновь двинулись вперед, гонимые мучительной жаждои. Having rested an hour or so, we again moved forward, driven by torturous thirst.

Except for such occasional deviations and the systematic exception of prefixed perfectives in pro- and no-, the ability to occur with an accusative expression of duration is a test that positively identifies imperfectives.

6.5.7 Iterative context: imperfective
Imperfectives can be used to report general states or habits – situations that seem true at all times – and they are used to express an open series of ac-
tions that repeat, when each token of the series by itself might be perfective if it were expressed as a single event. Iterative contexts can be signaled by a variety of lexical adverbs (часто ‘often’, изрежка ‘only occasionally’) and phrases (по субботам ‘on Saturdays’, каждую неделю ‘each week’). Or, the use of an

\[34\] Shakhmatov (1925) calls this “completion of the duration of the activity.”
imperfective with conjunctions such as коегда ‘when’ can impute an iterative reading to the context.

[153] По утрам к общежитиям {приходили<ref_pst> ~ приходят<ref_prs>} женщины из деревень, они {носили<ref_pst> ~ носят<ref_prs>} топленое молоко, я {покупал<ref_pst> ~ покупаю<ref_prs>} четвертинку каждый день на завтрак.

In the mornings women from the villages {came ~ come} to the dormitories, they {carried ~ carry} warm milk, every day I {bought ~ buy} a quart for breakfast.

Iterative situations can be situated in the past or present ([153]) or the future ([154]):

[154] Мы мечтали, как начиня с весны каждый день будем<ref_fut> получать по яичку.

We dreamed how, beginning in spring, each day we would get an egg.

Iteratives – particularly discrete iteratives, each of whose sub-events is completed – are mixed in terms of narrative function. As imperfectives, iteratives present a scene, a habit. But in a block of iterative imperfectives, each sub-event can be understood as sequentialized with respect to other sub-events. A rich example is [155], in which, further, a set of three perfectives (отказался, потребовал, студ.) in the middle creates a shift in the habits.

[155] Дежурство на большой дороге было очень интересным занятием. Мы располагались<ref> на протяжении полутора километров по всей дороге.

Хлопцы мерзли<ref> и подпрыгивали<ref> на снегу, перекликались<ref>, чтобы не потерять связи друг с другом, и в наступивших сумерках пророчили<ref> верную смерть воображению запоздавшего путника. <..>.

При мне колонисты никогда не хулиганили<ref>, и не путали<ref> путешественников, но без меня допускали<ref> шалости, и Задоров скоро даже отказался<ref> от револьвера и потребовал<ref>, чтобы я бывал на дороге обязательно. Я стал<ref> выходить при каждой командировке отряда, но револьвер отдавал<ref> все же Задорову, чтобы не лишить его заслуженного наслаждения.

Когда показывался<ref> наш Малыш, мы его встречали<ref> криком: – Стой! Руки вверх!

The watch on the highway was a very interesting occupation. We distributed ourselves over a kilometer and a half along the road. The lads were cold and they hopped around in the snow, shouted back and forth, in order not to lose contact, and in the approaching darkness they foretold certain death to the imagination of a belated traveler <..>.

In my presence the colonists never acted up and intimidated the travelers, but when I wasn’t there they engaged in some shenanigans, and Zadorov soon refused
to take the revolver and insisted that I be on the road. I began to go out every time, but the revolver I still turned over to Zadorov, in order not to deprive him of the well-deserved pleasure.

When our horse Malysh would appear, we greeted him with a cry:
– Halt! Hands up!

In Russian, explicitly iterative situations are almost always expressed by the imperfective. Only rarely can one find examples of perfectives used in specialized contexts, notably in the protasis of past general (iterative) conditionals, to emphasize that an achieved result is critical to the subsequent (iterative) apodosis.35

When the series is quite finite – гва́джа ‘two times’, нёсколькó пác ‘several times’ – it can be understood as a single event, and the perfective is more usual than the imperfective:

[156] Он её восемь раз разобрал,<sub>PF</sub> и собрал,<sub>PF</sub>.

He disassembled and reassembled it eight times.

6.5.8 The future context: perfective and imperfective

Both the periphrastic future of imperfectives and the present-tense form of perfectives refer to events that lie in the future (are known by divination) from the here and now of speech. The two aspects retain their usual values. Perfective present-tense forms report events that are predicted (divined) to be completed and lead to results ([157]):

– Отправимся,<sub>PF PRS</sub> вдвоем путешествовать – что тут такого?
– Ты знаешь, чем кончится,<sub>PF PRS</sub> ваше путешествие?
– Чем кончится,<sub>PF PRS</sub>? Я напишу,<sub>PF PRS</sub> художественные очерки, Ляля сочинит,<sub>PF PRS</sub> стихи.
– Это кончится,<sub>PF PRS</sub> ребенок!
– God only knows what you have thought up! – she exclaimed.
– We’ll head off together to travel – what’s wrong with that?
– Do you know what your trip will end in?
– What it will end in?! I’ll write some sketches, Lialia will compose poems.
– It will end with a baby!

Imperfective futures refer to events that are not anticipated to be definitively completed. They may refer to projected habits ([158]) or iterative (or extended) activities ([159]):

35 Bondarko 1971.
An imperfective future can project the existence of an activity or attempted activity ([160–61]); the fact of existence is more important than the possible completion or results.

A perfective, in contrast, predicts a future completed event and result ([162]). In sum, in the future temporal plane, perfective and imperfective maintain their values: a perfective history is one that is anticipated to come to fruition, an imperfective history is one that will be incomplete, because it reports a habit or the existence of an (attempted) activity.

6.5.9 Exemplary potential context: perfective
While the morphological present-tense forms of perfective verbs are used most naturally to report events that are predicted to occur and be completed on some future occasion, the perfective present is used for another important function. The perfective can present a single, potential occasion as exemplary of an open-ended series of possible occasions.36 An exemplary use of the exemplary perfective can be found in Turgenev’s A Hunter’s Sketches. The device fits perfectly the descent of the bemused urbane – but admiring – observer into the world of provincial life: Дайте мне руку, любезный читатель, и поедемте вместе со мной ‘Give me your hand, dear reader, and come travel together with me’. Turgenev’s narrator describes his heroine Tatiana Borisovna in these terms:

How many people have imparted their domestic, innermost secrets, have cried in her arms. It would happen, she'll sit opposite a guest, she'll lean quietly on her elbow and with such sympathy looks him in the eyes, she smiles in such a friendly fashion, that the guest will inadvertently have the thought, “What a wonderful woman you are, Tatiana Borisovna! Maybe I'll just tell you what's in my heart.”

The exemplary use of the present-tense perfective presumes a background of possible repeated occasions, here signaled overtly by the verbal particle "used to happen". Once the background of repeated occasions is established, present-tense perfectives (sъдет ‘will sit', обопрётся ‘will lean', приидёт ‘will come') present a recurring situation not as a regular habit, but as potential: given the right conditions, a certain sequence of events may arise. (Imperfectives used in the midst of an exemplary context, such as смотрит ‘looks', улыбается ‘looks', report open-ended processes concurrent with one of the potential occasions.)

The exemplary perfective becomes for Turgenev the perfect metaphor for the occasional and unanticipated against the backdrop of a landscape of tedium. In the twentieth century, the device receded, and it is now thought quaint.

Some other uses of perfectives also seem motivated by the function of selecting a single occasion as exemplary of a larger set. Past perfectives can be used with exemplary force in definitional relative clauses of the type тё, ктò . . . In [164], the history of one abstract individual stands for the set of possible individuals.

In a similar vein, in clauses embedded under "used to be successful" with iterative force, an imperfective infinitive emphasizes a regular habit ([181]), while the perfective describes the type of event that could, on occasion, occur – the exemplary sense ([182]). These uses of the perfectives (not only present-tense forms) demonstrate that exemplariness is one of the readings that a perfective can have, at least in certain contexts.

Two additional minor functions of the perfective present are a present perfective of narrative, found in restricted styles (folk texts, in byliny or, as late as the nineteenth century, in the narrative stage directions of folk drama):^37

Just then they will shoot him, he'll fall, and his wife'll begin to wail over him:

Related is the folk use of the perfective present with \textit{kak} to report an event unexpected in the narrative ([166]) or with negation to report the failure of an anticipated event ([167]):

The fox turned around, turned around, and says:

Then the nightingale sings so, whistles so, that the fox dropped her ears.

He bent over, sits on the sawhorses and he won't move.

6.5.10 Infinitive contexts: perfective and imperfective

The aspect of an infinitive depends to a large extent on the predicate on which the infinitive depends.\cite{fielder1983}

At one extreme are \textit{phasals}: начать/начинать ‘begin’, продолжать ‘continue’, кончить/кончать ‘end, finish’, перестать/переставать ‘cease’. They govern only the imperfective: я {начал ~ перестал} заходить\textless 1\textgt; к ней ‘I {began ~ stopped} dropping in to see her’. Любить/полюбить ‘love’ (also привыкнуть/привыкать ‘become accustomed to’, отвыкнуть/отвыкать ‘lose the habit of’) implies that the dependent predicate is a habit, and therefore imperfective ([168]), except for quantizing perfectives ([169–70]):

[168] Она \textit{любит} забавляться\textless 1\textgt; игрушками.

She likes to amuse herself with toys.

[169] Он \textit{любил} позабавить\textless 2\textgt; народ шуткой.

He used to love to amuse the people now and then with a joke.

[170] \textit{Любил} я забрести\textless 2\textgt; в каретный сарай.

I loved to wander off into the carriage barn.

At the opposite extreme are verbs of occasion. Угаться ‘be successful’ implies success, therefore perfective in a dependent infinitive:

\cite{fielder1983} cited by Panzer 1963:73. This usage continues to show up in literary texts through the beginning of the nineteenth century, as an imitation of folk style, for example, in Pushkin’s “Ruslan i Liudmila,” “Poltava,” or “Evlega.” The negative usage is termed “the present of futile expectation” by Zalizniak (1995:159).

\cite{fielder1983} Based on Fielder 1983; on aspect and modals, see Rappaport 1985.
As in [172], imperfectives are possible in contexts that list a series of activities. Принять приобрести ‘have occasion to’ is similar, but the implicature of success is weaker. When a single occasion arises, that event is often a completed, perfective, event ([173]). Sometimes what arises is the necessity of engaging in an activity, implying imperfective ([174]).

In other contexts in which infinitives are used, the event described by the infinitive is a potential rather than an actual event. It is striven for (with volitive verbs such as стремиться ‘strive for’), imposed or requested (with манд verbs such as дать/давать ‘let, allow’, позволить/позволять ‘allow’, просить/попросить ‘ask’), expected or made possible by universal authority (надо ‘be necessary’, нельзя ‘be impossible’, можно ‘be possible’), or simply possible (мочь ‘be able, can, be possible’). As a rule, the potential event is a single potential event, and this context usually calls for the perfective aspect in the infinitive. For example, in [175], what is at issue is the possibility of making a successful purchase on a possible occasion, hence perfective:

Ан imperfective is used if the situation under the force of modality is a habit ([176]).

Or if the situation is viewed as an activity – if what is required (possible, striven for, expected, etc.) is not a definitive change but an attempt, the mere existence of some activity that bears a certain name ([177–78]):
One should not try [it is not permitted] to cross the street here.

As I was sitting on the shore, up walked Mandelshtam and announced that what we must do is leave, since cholera had broken out.

More than other modals, мочь is concerned with whether a certain activity could exist at all; it allows imperfective infinitives freely.

The matrix context colors expectations about the event expressed by the infinitive. With прийти/приходить ‘have occasion to’, when the matrix occasion is iterated, then so is the dependent event. Accordingly, it is often expressed as an imperfective:

- Часто приходилось сталкиваться в жизни с политиками?
- Have you often had occasion to run up against politics?

With угодить/угодиться, the infinitive can be imperfective if the context stresses habit:

- Спустя четыре месяца после дебюта молодым людям удавалось продавать по двадцать джемперов в неделю.
- Four months after their debut, the young people used to manage to sell twenty jumpers per week.

If the sense of success on a potential, exemplary occasion outranks habit, the perfective is used with угодить ([182]). Similarly, if permission is granted (дать/давать, позволить/позволить), the performance of the dependent event normally follows. Hence an imperfective is natural for multiple occasions of permission.

In our family a crisis arose. I often allowed myself to abandon the family and turn to various male diversions.
6.5.11 Retrospective on aspect
To review: Aspect is a partition of verbs into two groups, perfective and imper- fective. The two aspects can be distinguished concretely by tense (only imperfectives form the periphrastic future) and by contextual tests. Simplex verbs, usually imperfective, are associated with one or (usually) more prefixed verbs, which are perfective. Many prefixed perfective verbs form a corresponding imperfective by suffixation. Such prefixed perfectives and corresponding imperfectives are clearly paired. Simplex verbs are less obviously paired, though for most simplex verbs, there is usually one prefixed perfective that will function as the nearest thing to a corresponding perfective (for example, in narrative sequence).

Every verb tells a story – a history. The two aspects differ by virtue of the different histories the verbs relate. Perfective verbs mean that there is a definitive change of the world around some contextual occasion, imperfective that there is continuity (or potential continuity) around the contextual occasion. More concretely, perfective verbs tend to be used in sequential past-tense narrative and in potential contexts in which the uniqueness and potential result are significant (imperative, future, deontic modality). Imperfective verbs are used in contexts in which, in one way or another, the continuity of the history is significant and outweighs the question of completion and result. Imperfective verbs are then used to identify the essence of an action, an action that goes on for some time (but ceases), an activity in progress (at some point), or a repeating or generic situation.

6.6 Temporal adverbs

6.6.1 Temporal adverbs
Predicate histories take place around a contextual occasion. Adverbial expressions – lexical adverbs or prepositional phrases or clauses introduced by conjunctions – delimit the contextual occasion of the predicate history.\(^{40}\) Three broad classes of temporal expressions can be distinguished: those that measure the duration of an interval over which an activity occurs; those indicating the frequency of repetition of equivalent sub-events of a larger, macro-event; and those that localize the contextual occasion for the predicate history.

6.6.2 Measured intervals
The duration of an activity or state or process is stated by a “bare” accusative without a preposition:

\(^{40}\) Based on Srienc 1991; see also Sullivan 1998.
For almost three days without interruption they transported people and supplies.

The activity or state measured in this way could potentially go on longer. The history is not definitively closed, hence the imperfective is used, even though the activity is understood to cease at the end of the interval. The accusative need not be a word that names a time unit, if it can be understood as an interval of time:

His whole life he healed cows.

Tolstoy spent almost the whole trip reminiscing about the past.

With a present imperfective, an accusative measures the duration of activity up to and including the present. In this context English would use a present perfect.

The last fifteen years I have given almost all my energy to one thing: the struggle for peace.

A bare accusative of time normally occurs only with imperfective or anaspectual predicates (перевозили, лечил, вспоминал, отдаю in [184–87]). A systematic exception is perfectives formed with the prefix про- (or но-) ([150], [151] above).

6.6.3 Time units

Prepositional phrases formed with nouns naming time units – seconds, minutes, years, eras – localize the history to one interval within a flow of comparable units. The case and preposition differ according to the time unit, listed in Table 6.6 by increasing size. Small units up through a day take со with the accusative; larger units (month, year, century) take the locative. Nouns referring to divisions in a temporal cycle – of the day (утро ‘morning’, день ‘day’, вечер ‘evening’, ночь ‘night’) or year (весна ‘spring’, лето ‘summer’, осень ‘autumn’, зима ‘winter’) – use the instrumental case without a preposition.

These combinations of preposition and noun define an interval that can be interpreted in a flexible fashion. The interval can be understood as an interval around which an activity is in progress or an interval over the whole of which a state holds (expressed with imperfective verbs). Or it can be understood as a broader interval within which there is a sub-interval on which some definitive
Table 6.6 Temporal expressions and time units

<table>
<thead>
<tr>
<th>unit</th>
<th>expression</th>
<th>example</th>
</tr>
</thead>
<tbody>
<tr>
<td>second, minute, hour</td>
<td>$b_{&lt;\text{ACC}&gt;}$</td>
<td>в эту минуту ‘at that moment’, в два часа ‘at two o’clock’</td>
</tr>
<tr>
<td>day (of the week)</td>
<td>$b_{&lt;\text{ACC}&gt;}$</td>
<td>в понедельник ‘on Monday’</td>
</tr>
<tr>
<td>day (of calendar)</td>
<td>ordinal numeral + noun_{&lt;\text{GEN}&gt;}</td>
<td>десятого мая ‘on May tenth’</td>
</tr>
<tr>
<td>week</td>
<td>$n_{&lt;\text{LOC}&gt;}$</td>
<td>на этой неделе ‘in this week’</td>
</tr>
<tr>
<td>month</td>
<td>$b_{&lt;\text{LOC}&gt;}$</td>
<td>в январе ‘in January’</td>
</tr>
<tr>
<td>year</td>
<td>$b_{&lt;\text{LOC}&gt;}$</td>
<td>в этом году ‘in this year’, в 41-ом году ‘in the year of 41’</td>
</tr>
<tr>
<td>century</td>
<td>$b_{&lt;\text{LOC}&gt;}$</td>
<td>в двадцатом веке ‘in the twentieth century’</td>
</tr>
<tr>
<td>division of daily cycle</td>
<td>noun_{&lt;\text{INS}&gt;} $\sim b_{&lt;\text{ACC}&gt;}$</td>
<td>днем ‘during the afternoon’, в день освобождения ‘on the day of liberation’</td>
</tr>
<tr>
<td>division of yearly cycle</td>
<td>noun_{&lt;\text{INS}&gt;} $\sim b_{&lt;\text{ACC}&gt;}$</td>
<td>осенью ‘in autumn’, в ту осень ‘in that autumn’</td>
</tr>
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</table>

change occurs, implying a perfective verb: В 1921 году я снова встретила Куприна ‘In 1921 I met Kuprin again’ – the event occurs over some sub-interval within the whole period of that year.

Telling time is complex in Russian. Hours by themselves are expressed by $b_{<\text{ACC}>}$, with a cardinal number and possibly the word час: в три часа ‘at three o’clock’. Minutes and fractions of hours look to the future; the hour that is named is the end of the ongoing hour. Minutes are expressed with $b_{<\text{ACC}>}$, the hour as an ordinal in the genitive: в пять (минут) второго (часа) ‘at five (minutes) of the second (hour)’ = ‘at five minutes past one o’clock’, в пятьдесят пять первого ‘at twelve fifty-five’ (possible in principle, but official), в четверть одиннадцатого ‘at a quarter past ten’. The fraction ‘half’ uses the locative, в половине седьмого ‘at half past six’, or more compactly в пол седьмого. Minutes near the end of an hour can be expressed by counting backwards from the upcoming hour using the preposition без and the accusative of the hour: без двадцати (минут) час ‘twenty minutes till one’, без четверти одиннадцатого ‘a quarter till eleven’. Note the progression in

[188] Время десять, потом четверть одиннадцатого, потом половина, потом без двадцати . . .

The time was ten minutes, then a quarter after ten, then half past, then twenty till . . .
In official contexts (train schedules, for example), one can use a paratactic construction of ə<sub>\(\text{\text{\text{\text{\text{acc}}}}\rangle}\) and the hour that has been completed, followed by the minutes:

[189] На поезд в 5 часов 30 минут я опоздала. Следующий был в 6 часов 10 минут. I was late for the train that left at 5 o’clock, 30 minutes. The next was at 6 o’clock, 10 minutes.

Questions about the time at which an event occurs are: for a punctual act, ɐ который час (вы уехали)? ‘At which hour (did you leave)?’ or, for a planned, recurrent activity, ɐ сколько (часов) вы встаете? ‘At how many hours do you get up?’.

Discussion of the current time lacks the preposition and uses the nominative. Thus in answer to a question ɐ который час? ‘what time is it?’ or ɐ сколько часов? ‘what time is it?’, one might answer: час ‘one (o’clock), десять минут восьмого ‘7:10’, informal минут десять восьмого ‘around 7:10’, bureaucratic восьмь часов десять минут ‘8:10’, без четверти восьмое ‘7:45’, половина второго ‘1:30’.

Dates are expressed by the genitive of the ordinal of the date, with the genitive of the month if necessary: приехали двадцать первого (мая) ‘they arrived on the twenty-first (of May)’. The neuter singular ordinal usually occurs without an overt head noun, though for explicitness the genitive числó<sub>\(\text{\text{\text{\text{\text{nt sg}}}}\rangle}\) could be added: двадцатого числа каждого месяца ‘on the twentieth day of every month’.

6.6.4 Time units: variations on the basic patterns
The locative case, as might be expected from its spatial meaning and its use with large time units, converts a time unit to an interval that contains the contextual occasion; the history of the change occupies some interval or intervals within the larger interval. The accusative, in contrast, treats an interval more as a unit that is filled by an activity.

ɐ<sub>\(\text{\text{\text{\text{\text{loc}}}}\rangle}\): Using the locative with an ordinal numeral turns an hour into an extended interval composed of multiple sub-intervals, on one of which an event occurs. In [190], the bell rings (regularly) at some time within the second hour after midnight:

[190] Мы с сестрой уже привыкли к тому, что ночью, во втором часу, когда в доме уже все спали, раздавался звонок.

My sister and I had already become accustomed to the fact that, at night, between one and two, when everyone was asleep, the doorbell would ring.

ɐ<sub>\(\text{\text{\text{\text{\text{acc sg}}}}\rangle}\): This expression is used with hours and days of the week. It can be applied to other time units, including large time units that might take ɐ<sub>\(\text{\text{\text{\text{\text{loc}}}}\rangle}\) or the instrumental. Then ɐ<sub>\(\text{\text{\text{\text{\text{acc}}}}\rangle}\) defines an interval that encompasses and bounds a successful activity ([191–94]):
Mood, tense, and aspect

[191] Там не пове́рят, что я прочитива́ю книгу в день.
They won’t believe that I read a book in a day.

[192] Дорога зимняя была очень хороша. Без осо́бенных произоше́ний дое́хали мы в свое сутк до Торжка.
The winter road was very good. Without any special adventures we reached Torzhok in two days.

[193] В год, который я ее не видал, очень она переменилась.
Over the year that I had not seen her she had changed considerably.

[194] Эмиграция может убить любого писателя в два́-три года.
Emigration can destroy any writer in two to three years.

A larger unit can use the accusative (instead of the locative) when a demonstrative sets up a contrast between the specific unit under discussion and other possible units: other years are not so snowy ([195]); in other years Gorky lived elsewhere ([196]):

[195] В тóт год зима была ранняя и очень снежная.
In that year winter came early, with much snow.

[196] В этот год Горький жил в Берлине.
In that year Gorky lived in Berlin.

The locative is used when the demonstrative connects two events within one time interval:

[197] В том же году Бору удалось впервые дать на основе своей модели атома объяснение периодической системы элементов Менделеева.
In that year Bohr managed for the first time to develop an explanation for the periodic table of elements of Mendeleev on the basis of his atomic model.

In [197], Niels Bohr made one discovery, and it was still in that same year, not at some other time, that another accomplishment was made. The year is a container for two events.

The instrumental is used with parts of the day or seasons if the significance of the history is related to the nature of the time; note, for example, the inappropriate doorbell ringing ночь in [190] above, or the chiasmic use of the summer for winter memories in [198]:

[198] Этим летом на даче у родителей снова и снова припоминала зимние встречи с Толстым.
During that same summer at my parents’ dacha I rehearsed the winter meetings with Tolstoy in my memory over and over again.

But a in is used if the specific token (night, summer) is contrasted with other units.
Tolstoy, who on that night was on watch, cried out:

Tolstoy, who on that night was on watch, cried out:

It was hard to understand why, at the end of the war in the summer of nineteen, the French front was in Greece.

In [199], Tolstoy was on duty on that specific night but would not have been on others.

Making the noun plural creates an extended period over which an activity or state holds in contrast to other possible periods.

As early as the twenties he dreamed of going to the Soviet Union.

In [201], the state extends throughout and saturates the interval, and the time is modalized (‘in the twenties, earlier than one might have expected’). The locative can be used if the decade is an interval internal to which a state holds or a change occurs ([202]):

In the thirties he perished in the camps.

Noun phrases that name imprecise periods of time use the accusative: во время ‘at the time’, в течение ‘over the course’, в ту же пору ‘in that time’, в тот период времени ‘in that period of time’, в каждую такую эпоху ‘in any such epoch’, в короткую мою бытность командиром ‘in my brief stint as commander’, в последний свой визит ‘during my last visit’, в одну из наших встреч ‘on one of our meetings’.

Words naming processes which have duration and internal sub-intervals use the locative: в процессе ‘in the process’, в ходе соревнования ‘in the course of the competition’. На протяжении ‘over the duration’ gives time a dimensionality, a division of a time period into sub-phases. Words referring to boundaries use the locative: в начале ‘in the beginning’, в середине ‘in the middle’, в конце ‘at the end’. Phases of life do as well: в молодости Бальмонт пытался кончить жизнь самоубийством ‘in his youth Balmont tried to commit suicide’.

The seemingly arbitrary use of the на with weeks might have been motivated by the sense that a week is a time unit composed of an internal sequence of days; a week then has boundaries and a middle. На is also used with periods in the church calendar (на Великом посту ‘during Lent’) and with nouns referring to meteorological events in the daily cycle (на рассвете ‘at dawn’, на закате солнца ‘at sunset’). The idiom на днях ‘in a matter of days’ belongs here:
Around this time, actually three days ago, Sashenka left with her children and husband for the country.

Ha<\ACC (~ loc)> : Ha<\ACC (~ loc)> is used in scenarios in which a series of units is counted from an initial boundary: на первый другой ~ следующий ~ третий день ‘on the first ~ next ~ following ~ third day’. The notion of an initial boundary is critical.

On the fourth night she rushed in like an Amazon, whip in hand, into a quiet family pension.

In [204], the counter is set in motion one night when Esenin takes refuge from his wife Isadora Duncan, and it is four nights from that time that she locates him. Ha<\ACC > is not used when sequencing one event relative to another is not paramount: в следующую субботу Боря покажет мне свои коллекции ‘on the next Saturday Boria will show me his collections’ simply locates an event subsequent to some known time. It is the same sense of an extended period that на brings out in [205]:

On the 11th of June, 1770, in the twenty-ninth year of his life, Bashilev died.

6.6.5 Boundaries: $k<\DAT>$
Some prepositional phrases define boundaries of time intervals. With the boundary defined by $k<\DAT>$, there are different expectations before and after the boundary. In [206], if the addressee arrives by the boundary, one future is anticipated; if he does not, a different history is expected: his fate hangs on that difference.

At that time in Tunisia there were vicious battles. By that time Rommel had already flown to Germany and his army was commanded by his replacement.
6.6.6 Boundaries: *непр<ins>ег*</ins>
With *непр<ins>ег*</ins>, a perfective change occurs before the boundary, while in the immediate vicinity of the boundary event, no other events occur.

[208] После третьего звонка, *непр началом* следующего акта, когда актеры уже были на сцене, в зрительном зале раздались аплодисменты.
After the third bell, before the beginning of the next act, when the actors were already on stage, applause erupted in the auditorium.

The perfective event has consequences for the subsequent history; usually, after the boundary a new change is expected imminently (in [208], the resumption of the performance). An imperfective can be used with *непр<ins>ег*</ins> if it has an iterative sense.

[209] И по-прежнему, как много лет назад, *непр началом* спектакля у входа в театр слышится, знакомые и такие приятные слова: «Нет ли лишнего билетика?»
And just as many years ago, before the beginning of the performance at the entrance to the theater could be heard the familiar and comforting words: “Does anyone have an extra ticket?”

*непр<ins>ег*</ins>, then, defines a minimal interval (not an extended series of intervals) adjacent to a boundary event; the boundary event is imminent, precluding other events.

6.6.7 Boundaries: *после<ins>ег*</ins>, *ног<ins>ег*</ins>, *по<ins>ег*</ins>
*после<ins>ег*</ins> locates the change or significant part of a history after the boundary occasion named by the noun: *после отъезда* ‘after departure’, *после третьего звонка* ‘after the third bell’. At the same time, it connects the new event to the last event:

[209] Однажды вскоре после начала занятий он подошел ко мне.
Once soon after the start of lessons he came to me.

*ног<ins>ег*</ins> locates a history in anticipation of a boundary such as a holiday: *ночь ног Рождество* ‘the night before Christmas’, *ног конец* ‘near the end’.

*по<ins>ег*</ins> places a history after another event (the noun names an event, not a time). The event is anticipated and sets up expectations for the subsequent history: *по приезде* ‘upon arrival’, *по окончании гимназии* ‘upon the completion of gymnasium’. In [211], recovery from illness will set in motion another perfective event:

[211] По выздоровлении (у меня был грипп) я немедленно выезду* в Петроград.
After convalescence (I had the flu) I was to leave immediately for Petrograd.
6.6.8 Bounded intervals: $go_{<\texttt{GEN}>}$

$Do_{<\texttt{GEN}>'}$ defines an interval composed of multiple sub-intervals that extends up to the boundary named by the noun. An imperfective (the usual aspect) characterizes a situation that extends up to the boundary (for example, the continuing state of secrecy in [212]).

[212] Наш отъезд, как и все передвижения во время войны, держащи_{<\texttt{PF PST}>} в глубочайшей тайне $go$ последнего момента.

Our departure, just like all movements during war, was kept in the strictest secrecy until the last moment.

After the boundary occasion, one can expect the state projected by the predicate to be canceled. After the departure in [212], the operation is no longer secret.

With a perfective, $go_{<\texttt{GEN}>}$ refers to the state that results from the event ([213]):

[213] Императорские театры в Москве и Петербурге закрылись_{<\texttt{PF}>} $go$ 30 августа, то есть почти на семь месяцев.

The imperial theaters in Moscow and Petersburg were being closed until August 30, that is, for almost seven months.

Sometimes, what continues over the interval is the possibility of performing a perfective event – in [214], the opportunity of making the call:

[214] Она попросила меня позвонить_{<\texttt{PF}>} завтра $go$ двух часов.

She asked me to call tomorrow up to two o’clock.

Because $go_{<\texttt{GEN}>}$ defines an interval that begs to be filled, a single perfective event can set the scene for further perfective events that are squeezed into the interval before the boundary.

[215] До начала сеанса в зале появился_{<\texttt{PF PST}>} бритый наголо молодой человек, подошел_{<\texttt{PF PST}>} к билетерше, и они вместе направились_{<\texttt{PF PST}>} в нашу сторону.

Before the beginning of the session in the hall there appeared a clean-shaven young man who went up to the ticket woman and together they came in our direction.

$Do_{<\texttt{GEN}>}$, then, defines an extended interval. The predicate history fills the interval up to the boundary, but changes after the boundary.

6.6.9 Bounded intervals: $c_{<\texttt{GEN}>}$

The preposition $c_{<\texttt{GEN}>}$ defines an initial boundary for a history that is usually a continuous state or activity expressed by an imperfective.
The day was cold. From the morning it was drizzling, then by midday a sharp wind had begun to blow and it started to snow.

A perfective defines the initial boundary of a state that continues:

As an extension, a perfective with \( c_{\text{GEN}} \) can be the first event in a larger series of events. In [218] the first shipment of household goods initiates the extended process of moving.

From the evening, on the eve before, there went on the Schliesselburg Road six wagons with furniture and books.

6.6.10 Metric intervals: \( \emptyset_{\text{ACC}} \)

Combined with the adverbs (тому) \( \text{nазад} \) or \( \text{пусто}, \) any time measurement (in the accusative) specifies a time frame located a certain distance from the current temporal frame. \( \text{Назад} \) measures not the duration of the activity, but the gap between the current contextual occasion and some other displaced occasion. \( \text{Назад} \) then accommodates both perfectives (Часа четыре назад мы приехали, наконец в Ньюкастл 'Four hours ago we finally arrived in Newcastle') and imperfectives (Лет тридцать тому назад она обучала немецкому языку Клотильду Вандербилт 'Thirty years ago she taught German to Clotilde Vanderbilt').

6.6.11 Metric intervals: \( 3a_{\text{ACC}} \)

\( 3a_{\text{ACC}} \) likewise measures an interval. The change of a history occurs within that interval and is confined to the interval. There is a sense that the change overcomes resistance:

Within a week we had managed to sell 10,000 copies of the booklet.
It became imperative in the space of several years to try to recapture what had been omitted for centuries.

An imperfective can be used with за несколько лет наверстывать, imperfective to undo what was omitted over centuries or millennia:

Приходилось за несколько лет наверстывать упущенное веками.

Pluto revolves around the sun in 250.6 years:

Pluto обращается вокруг Солнца за 250.6 лет.

In the casino they would lose several millions in a night:

В казино проигрывали за ночь несколько миллионов.

An imperfective is possible with narrow scope when the iteration occurs inside the interval:

Over two millennia war crossed through their country dozens of times:

Over July–August the tempo of advance never exceeded three kilometers.

A series of imperfectives can be used with за несколько лет наверстывать imperfective to undo what was omitted over centuries or millennia when the series amounts to an accomplishment over the interval:

Even without a verb за несколько лет наверстывать can specify the domain of an ordinal: третий за месяц контратака ‘third counterattack in the space of a (single) month’.

За несколько лет наверстывать can be combined with ждать го, imperfective to measure when a perfective event occurs relative to an interval’s final boundary: минут за гвоздить го обеда ‘twenty or so minutes to dinner’, незадолго перед этим ‘not long before that’.
6.6.12 Metric intervals: на<ACC>

Ha<ACC> measures the duration of the interval that results from a perfective change, such as the closure of theaters in [226]:

[226] Театры закрылись до 30 августа, то есть почти на семь месяцев.
    The theaters were being closed until August 30, that is, for almost seven months.

An imperfective can refer to iterative occasions ([227]) or promise the imminent completion of change ([228]):

[227] После обеда Черчилль удалялся на несколько минут в свою комнату и вскоре представлял перед гостями в ярком восточном халате, в котором обычно смотрел фильмы.
    After dinner Churchill withdrew to his room for several minutes and then reappeared before his guests in a bright Oriental robe in which he usually watched films.

[228] В кармане у нас лежали путевки в дом отдыха, куда нас вдвоем на два месяца посылали. Литфонд.
    In our pocket we had vouchers for a resort where Litfond was sending us for two months.

Lexicalized forms are навсегда 'for all time, forever', надолго 'for a long time'.

6.6.13 Metric intervals: через<ACC>

Через<ACC> measures the duration of an interval from one boundary occasion to an event. During the interval, contrary to possible expectations, no other relevant event occurs. In [229], to describe how night falls quickly in certain latitudes, the narrator mentions no events between the setting of the sun and the perfective onset of darkness:

[229] Погасло солнце – и через несколько минут все заволокло мраком ночи.
    The sun faded – and after several minutes everything was wrapped in the dark of night.

With imperfectives, через<ACC> jumps us ahead to the middle of a new ongoing situation, which comes about as a surprise:

[230] На другой день я узнал, что Мейерхольд распорядился начинать репетиции.
    On the next day I learned that Meierkhol’d had arranged to begin rehearsals.

Thus через<ACC> links two parts of a narrative that might otherwise be separate.
6.6.14 Frequency

The temporal expressions discussed above all locate (however approximately) the predicate history around a single time frame. Histories and their contextual occasions can repeat over multiple occasions. Iteration can be signaled by various means. A large stock of lexical adverbs signal iteration: иногда ‘sometimes’, часто ‘often’, порой ‘off and on’, иногда раз ‘now and again’, обыкновенно ‘usually’, редко ‘rarely’. Any noun that refers to a time unit signals repetition when it is modified by a universal quantifier; the whole expression is in the accusative without preposition: каждый год ‘every year’, каждый день ‘every day’, каждую неделю ‘every week’, вский раз ‘each time’. (Some lexical adverbs as well incorporate universal quantification: ежеминутно ‘minute by minute’, ежегодно ‘yearly’.) Names of days of the week or parts of days can be made distributive, hence iterative: по средам и пятницам ‘on Wednesdays and Fridays’, по вечерам ‘in the evenings’. Frequency can be stated by combinations of раз with a prepositional phrase in а и a recurring time unit: раз десять в день ‘ten or so times a day’, по одному разу в две или три секунды ‘once every two or even three seconds’, киты рождают одного крупного детеныша обычно раз в 2 года ‘whales give birth to one massive baby usually once every two years’. Часами ‘for hours on end’ and (целыми) днями ‘for whole days at a time’, which are lexicalized instrumentals, belong here. With any of these unambiguous indications of iteration, the imperfective is required.

6.6.15 Some lexical adverbs

Some lexical items deserve attention. Долго ‘for a long time’ and давно ‘a long time ago’ both project unfinished histories that extend over and fill intervals. With долго, the activity is presumed to stop (without definitive result, hence imperfective), and it can be placed in sequence with other events:

[231] Мы долго рассматривали величественные развалины, потом сидели на широких каменных ступенях у обрыва.
   For a long time we looked at the magnificent ruins, then we sat on wide stone steps at the ravine.

Because the time interval is closed, долго occurs with the past tense or future, but not with an actual present.

In contrast, давно (or давно-даже) suggests continuation rather than limitation. In [232], the mutual knowledge (or the illusion thereof) could easily continue:

[232] Мы разговаривали долго и так свободно, как будто знаем друг-друга давно-даже.
We talked long and freely, as if we had known each other for ages.
Table 6.7 Temporal expressions and aspect

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Давно́ is compatible with the present tense of a verb ([232]). The perfective is possible when it characterizes the inception of a still-continuing state:

[233] Начались₂₉₉₉ счеты давно, с первой нашей встречи в Петербурге.

The score keeping had begun long ago, from our first meeting in Petersburg.

Долго, then, is analogous to the bare accusative, давно́ to с₉₉₉₉.

Another lexical contrast of interest is the set of words that place the contextual occasion at the present moment, теперь ‘now’ and сейча́с ‘now, at the present moment’. (Ныне ‘nowadays’ is stylistically marked as quaint.) Теперь implies that the current situation departs significantly from the prior situation and that it will remain in force for the indefinite future. It can be used with present-tense verbs that contrast the current habit with a prior one:

[234] В свое время их принимали за чудаков, а теперь вроде бы уважают,₂₉₉₉.

In earlier times they were regarded as loonies, while now they seem to be respected.

With a past perfective, теперь contrasts the state resulting from a change with the situation before the change ([235]). A present-tense perfective means the future is anticipated to differ from the past ([236]).

[235] Теперь он явно устарел,₂₉₉₉.

By now he has obviously aged.

[236] Теперь вероятно и мы скоро пойдем,₂₉₉₉.

Now, probably, we also will go.

Сейча́с localizes the history to the interval of the immediate present. This present is part of a sequence of continuously changing situations. Сейча́с suggests that the current situation is unstable and might well change in the not-too-distant future. Hence сейча́с is easily used with a present perfective (that is, imminent future):
or with imperfectives or anaspectual predicates in the sense of ongoing activity or states, which might, however, be expected to change:

[N]ere jiyene mense sейчыас.
Some are alive even now.

Thus lexical adverbs, like temporal expressions formed with prepositions, also shape and influence the history projected by the predicate.

6.6.16 Conjunctions
Subordinate clauses introduced by conjunctions provide a contextual time for one history in terms of another. Subordinating constructions, of course, are not exclusively temporal; at the same time as they signal temporal relations, they are modal (not surprisingly, since some of the prepositional expressions are highly modal) and textual – the process of subordination ranks information as presupposed or better known as opposed to focused or less known.

6.6.17 Summary
The range of temporal expressions is summarized in Table 6.7.

The most neutral expressions merely locate a history in the general vicinity of the time, and are compatible with both bounded (perfective) and extended (imperfective) histories. Many temporal expressions have a preference for a particular kind of history, which translates into a preference for one or the other aspect. Thus на\textsubscript{ACC} or \textit{c}_{GEN} indicates a state holding over an extended interval, which is typically expressed by the imperfective, while κ\textsubscript{DAT} implies a history involving change, hence perfective. A temporal expression that presupposes change normally prefers a perfective verb, but allows an imperfective if the history reported by the imperfective is novel (most natural when the imperfective is understood as a new and surprising activity already in progress). A temporal expression that depicts continuity and stasis is a natural context for imperfectives, but allows a perfective if the perfective is understood to report the state resulting from an event. Any temporal expression involving change, which usually implies the perfective aspect, can nevertheless occur with an imperfective as an iterative, as a historical present substituting for a virtual past perfective, or as an imperfective with futurate sense (В субботу я ухожу к Маше на целый день ‘On Saturday I’ll be going to see Masha for the whole day’).
7.1 Basics
Language is not only a system of elements and relationships existing in poten-
tia. Language is also used in context, as an exchange of information (beliefs,
attitudes) between speaker and addressee. As language is used in context, al-
ternative messages are considered, and the components of the information are
hierarchized. The techniques used to manipulate information are quite hetero-
geneous, but they are also patterned, conventional, recurrent. Among the tech-
niques are those that derive from the specific fact that, as language is used, the
elements of language have to be presented in a linear order (and in speech, pre-
sented in time). Russian is famous for its variations in presenting information
through the use of variations in word order, intonation, and lexical operators. 1

7.2 Intonation
7.2.1 Basics
Each speaker has a characteristic fundamental frequency, which depends on
the size of the vocal chamber. The typically smaller chamber of children and
women implies a higher frequency than the larger chambers of adults and men.
Speakers vary the fundamental frequency over the duration of an utterance.
These variations of fundamental frequency over time result in a limited number
of intonation contours, analogous for different speakers.
Over the course of an utterance, the intonation, if left to its own devices,
declines gradually. It becomes possible to identify a contour when there is a
noticeable change in pitch, whether a rise or fall, that departs from this gradual

1 The Prague School of Linguistics, in the spirit of Saussurean structuralism, thought at first that
word order was parole, while syntactic relations were langue. But it soon discovered that word order
was not invented ex novo on each occasion. There are patterns; therefore word order belongs to
langue. The discussion here attempts to balance the patterned character of information devices
(they are constructions, or граfolетес) and their ability to convey quite specific messages.
Intonation, though it is obviously a feature of spoken language, may nevertheless be relevant
to written language. Possibly speakers write and read written texts with a virtual intonation in
mind (the intonation with which the text would be spoken).
For attempts to bring together intonation and word order, see Keijsper 1985, Yokoyama 1986.
downward drift. The rises and falls are usually centered on one stressed focal syllable (or focus), even if the changes spread over onto adjacent syllables. (When the focal syllable comes near the end of an intonation phrase, the contour after the focal syllable is abridged.) The word that includes the focal syllable is the locus of the semantic operation associated with a given contour. It seems sensible to follow the system articulated by E. D. Bryzgunova, which identifies an inventory of types of “intonational contour” (интонационная конструкция), written here as “IC” with a superscripted number of the focal syllable. Each contour can potentially be used in utterances of different kinds: in questions and imperatives (more broadly, in utterances oriented towards the addressee), in expressive functions (more broadly, utterances oriented towards the speaker), and in narrative and descriptive utterances (utterances that purport to be factual statements about the world – utterances not oriented towards the speaker or addressee).

7.2.2 Intonation contours
The least expressive intonation contour is IC1, a modest rather than precipitous fall in the intonation contour. If there are syllables following the focal syllable, they continue the lower pitch. IC1 is the basic contour of factual assertion and narrative. The fall, if it occurs in the middle of an intonation phrase, focuses on that word. Often the fall occurs by default on the last stressed syllable in the phrase. In Чего идет в кинотеатр?, the question asks simply what is happening in the theaters; theaters are not singled out as opposed to other locales.

IC2 is a significant fall in intonation linked to a stressed syllable. The shape of the contour – falling – is similar to that of IC1, but the focal syllable and the surrounding syllables are more marked in IC2 than in IC1. The differences are evident in, for example, the contrast of the neutral question Чего идет в кинотеатр? as opposed to Чего идет в кинотеатр?. In IC1, the fundamental frequency falls less than 100 Hz – for example, from 160 Hz to 100 Hz, over the stressed vowel of кинотеатр. In IC2, the fundamental frequency starts at a higher level and falls more – for example, from 300 Hz to 200 Hz, over the stressed syllable of кинотеатр.

In iconic fashion, IC2 is not only more marked phonetically, it is also functionally more marked than IC1. In questions, it contrasts one element with an analogous element:

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2 System and most examples derive from Bryzgunova 1972 and Bryzgunova’s contribution to the Academy Grammar 1980 (96–122); now SLRA 1.69–72. Hesitations about the system have been registered by Matusevich 1976, Yokoyama 1986, Mills 1990, Schallert 1990 ([6]). Intriguing alternatives have been proposed by Svetozarova 1982 and Odé 1989. For a summary of what can be determined about historical changes in intonation, see Comrie, Stone, and Polinsky 1996:99–103.

3 Academy Grammar 1980, Fig. 23.

4 Academy Grammar 1980, Fig. 33.
In narrative, IC\(^2\) distinguishes one element (time, individual, event) from other comparable elements that could be expected or imagined: Я просила вас в восьмь ‘I asked you to come at eight [specifically then, not at another time]’.

In orders, it is more insistent than IC\(^1\): Закрой окно! ‘Close the window! [as you seem not to have done yet]’. IC\(^2\), then, is similar to IC\(^1\), but is more exaggerated, phonetically and functionally.

In IC\(^3\), the pitch jumps up suddenly over the focal syllable. By the end of the focal syllable, the pitch begins to fall and continues to fall on further syllables to a level lower than the level before the focal syllable. The contour over the focal syllable is then not a pure rise, but a concave rise–peak–fall.

IC\(^3\) is used in various contexts. In questions, IC\(^3\) asks about polarity, for example, whether the situation of possession is true: У вас есть простой карандаш? ‘Do have an ordinary pencil [or do you not?]’, often in the face of the possibility that the answer might be otherwise: Его зовут Саша? ‘Is his name [really] Sasha [or not]?’. In expressive contexts, IC\(^3\) emphasizes the polarity of a property: Ох и грустный же ты! ‘Oh are you ever rude!’. As a command, IC\(^3\) is softer than IC\(^2\): Закрой окно! ‘Close the window, won’t you’. In narrative and description, IC\(^3\) commonly occurs near the end of a clause and signals that the information to this point is partial; further information will follow:

A тот, кто записывает народные песни, должен создать настроение певцам.

Anyone who records folk songs has to create an atmosphere for the singers.

In this context, IC\(^3\) is anticipatory, cataphoric.

A sentence fragment from [2] can be used to illustrate graphically the difference between IC\(^3\) (first sharp peak) and IC\(^2\) (valley), as in Fig. 7.1

IC\(^4\) is signaled by a fall in pitch over the focal syllable. The dip is followed by a rise on the focal syllable or especially on the subsequent syllables, which then remain higher than the pitch level preceding the focal syllable. In general, IC\(^4\) signals that the current information responds to the prior discourse (or to the whole surrounding discourse). It leaves open the possibility that further information will be forthcoming, but does not require it (unlike IC\(^3\)). In a question, IC\(^4\) acknowledges the prior information, but extends beyond it ([3]). IC\(^4\) can be used in a series of questions, each of which contributes to a program of extracting information: Ваше имя? Взросле? ‘Your name? Age?’. As a response to a request or question, IC\(^4\) confirms the answer and extends it; thus, in [4], the speaker offers permission to enter, and more. As an assertion of intention, IC\(^4\) continues and responds to the prior situation ([5]):
IC₄ can be used in narrative and descriptive, as a way of filling in background that continues the prior discourse. For example, in a description of a photograph, a clause with IC₄ could be used to supply additional description:

[You can see in the picture] some absolutely antediluvian cars are driving.

IC₄, unlike IC₃, does not demand an elaboration in the following discourse. Rather, IC₄ elaborates the prior discourse.

The remaining three ICs (in the system of Bryzgunova) are all quite specific phonetically and quite expressive functionally. IC₅ occurs in the construction in which a quantifier or adjective (for example, какой) comes at the front of the
sentence and is split from the noun it quantifies or modifies. IC$^5$ in this construction has two focal syllables. The intonation rises on the first focal syllable (here “$V^{5s}$”). By the end of the second focus (here “$V^{5b}$”), the pitch levels off and falls, returning back to the low level before the first focal syllable.

7  Кака$^{5s}$я в мире ти$^{5p}$шь!
    Such calm there is in this world!

8  И како$^{5s}$й он был интересный рассказ$^{5b}$чик.
    And what an interesting storyteller he was!

In IC$^6$ – for example, Когда$^6$ он пришёл? ‘And when [did you say you think] he will come?’ – the pitch rises steeply on the focal syllable (Когда$^6$) and may even continue to rise on the following syllable (он). After it reaches its maximum value, as much as 150 Hz above the starting point, it remains level and high (пришёл). IC$^6$ is used in content questions that ask for an answer to be repeated (В како$^{6s}$й аудитории? ‘In which auditorium [was that you said]’), in expressive exclamations (Какие я$^{6s}$блоки спелые! ‘What luscious apples!’), and even narrative (Все систем$^6$мы / работ$^6$ают / норм$^6$ально ‘All systems / are working / correctly’), when this expressive intonation retards the flow of narrative in non-final phrases in an expressive – portentous, grandiose – manner.

IC$^7$ is an extremely sharp rise on the focal syllable (or the focal syllable and an adjacent syllable), so sudden and emphatic that the vowel is truncated by a glottal closure. It is followed by an equally precipitous fall in pitch over the following syllable(s). Consistent with the significant pitch increments, IC$^7$ emphatically expresses the speaker’s involvement in the content, ranging over disbelief to anxiety: Како$^{7s}$е жарко! В пальто ходим ‘How so hot! We’re going around in coats’; Я что$^{7s}$? Вот Павел – шахматист! ‘Me? Take Pavel – now there’s a real chess player’.

It is conceivable that the core of the intonation system is simpler than the heptopartite system of Bryzgunova. The first, IC$^1$, is a default contour. The next three – IC$^2$, IC$^3$, and IC$^4$ – are indeed real contours with recognizable functions. The last three intonation contours (IC$^5$, IC$^6$, IC$^7$) are less central than the first four, and could be derivative of, or exaggerated versions of, the others. IC$^7$ is probably just an emphatic variant of IC$^3$, and IC$^6$ is reminiscent of IC$^4$. IC$^5$ is arguably not a single contour, but two contours linked in a very specific syntactic idiom ([7--8]) which, because of its syntax, has two focal syllables.

Table 7.1 schematizes the four basic contours IC$^1$ through IC$^4$. Intonation contours manipulate ideas – the content of the focal word (here “$x$”) or possible alternatives (here “$x'$”). If the focal word is a noun, the ideas manipulated

5 Similarities that Bryzgunova (Academy Grammar 1980:107, passim) acknowledges. SRJa 1.69–72 omits IC$^7$. 
Table 7.1 Phonetics and generalized function of IC₁–IC⁴

<table>
<thead>
<tr>
<th>contour</th>
<th>pre-focal syllable</th>
<th>focal syllable</th>
<th>post-focal syllable</th>
<th>function</th>
</tr>
</thead>
<tbody>
<tr>
<td>IC₁</td>
<td>mid fall</td>
<td>low</td>
<td></td>
<td>default intonation</td>
</tr>
<tr>
<td>IC₂</td>
<td>mid fall</td>
<td>low</td>
<td></td>
<td>cohonomy operator: indeed x, despite possible x'</td>
</tr>
<tr>
<td>IC₃</td>
<td>mid rise–fall</td>
<td>low</td>
<td></td>
<td>polarity operator: indeed x, despite possible not x</td>
</tr>
<tr>
<td>IC₄</td>
<td>mid fall–rise</td>
<td>high</td>
<td></td>
<td>textual operator: granted x' already, now also x</td>
</tr>
</tbody>
</table>

are entities. If the focal word is a verb, the ideas manipulated are events or properties.

7.3 Word order

7.3.1 General

Words, in speech and writing, are produced and processed in linear order. In some combinations the sequence of words is predictable: for example, adjectives almost always precede the nouns they modify. The major constituents – the verb (V), the subject (S), the objects (O), domain phrases such as the goal of activity (D) – have more freedom. While the order is not “free” in the sense of being random or without consequences, still, the major constituents can occur in different orders, and variation in word order is one of the important devices Russian employs for shaping information.

It is traditional to describe word order in terms of a division of the utterance into two parts. Thus a sentence consisting of elements \( \alpha \beta V \gamma \delta \) is parsed as \( \alpha \beta | V \gamma \delta \), where the elements \( \alpha \beta \) that come before the verb are taken as the basis (the theme, основа, topic) for the focus (rheme, репто, comment) – the information provided by the verb and further constituents to the right \( V \gamma \delta \). Moreover,

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6 Two important studies attempt to develop a single principle for all combinations of the verb and its major arguments. Adamec 1966 imposes a binary distinction between basis/основа and focus/репто on all sentences. As a rule (except when a constituent has a “specific informational” or “specific verificational” function), the boundary falls in the same place – immediately before the verb – in all word-order patterns. Yokoyama 1986 sees word order as reflecting a gradation in the degree of accessibility of knowledge. Although the most general schema has four positions (1986:234) – two before the verb, two after – in fact only two positions are distinguished consistently: a constituent that precedes the verb is information that is a current concern of both the speaker and the addressee, while a constituent that follows the verb is information that is not yet a current concern of the addressee. Both approaches, then, impose a binary division on the utterance.

Binary approaches can only classify constituents as belonging to one half of the utterance or the other. They cannot, therefore, take into account what grammatical and semantic role the arguments have. For example, in binary models, the S of the rather marked VS order should have the same value as the O in VO, which is the neutral order, from which it follows that (O)VS and (S)VO orders cannot be differentiated, when surely their functions are very different. For this reason,
elements on the margins of the utterance far from the verb (α or δ in αβ|γδ) are more exaggerated, or “stronger,” in their function than elements near the verb. Thus the initial subject argument in [9] announces an unexpected entity and might well have emphatic stress (мы вам). The final adverb in [10] answers an implicit question about the manner of reception.7

And my husband also extends his best wishes.

At the Osorgins, [they] met me with joy.

The division into basis and focus (or the equivalent in any other terminology), while it expresses a valid insight, is a rather general model; the binary partition is misleading. Each combination of major constituents, such as OVS or VSO, has its own properties – its own stylistic value, its typical use in context, its lexical preferences. For this reason, the discussion below is organized according to whole patterns of major constituents and uses examples taken from a corpus of examples of word order involving transitive verbs with the first-person singular accusative pronoun меня.8 The basic corpus consists of 359 examples with all three constituents present. Another 138 examples have only verb and object.

7.3.2 SV, SVO
The most neutral and frequent order of major constituents in Russian is that in which the subject precedes the verb. The subject announces an entity for discussion, the verb states a property that holds of it.

My mother returned from the station ready to act. As fast as she could, she would move us all to a new apartment, trade for food, go to Tula. Next morning she took me with her to the bazaar.

the description here is organized in terms of conventional patterns, like the descriptive practice of Adamec as well as Schaller 1966, Bivon 1971, Kovtunova 1976, Svedstedt 1976.

7 For a strong rhematic element (δ in the abstract scheme), Bivon uses the apt term “essential new,” which is opposed to “non-essential new” (γ in the abstract scheme).

8 From S. Golitsyn, Zapiski ustelevshego (Moscow, 1990). Not included in the count were objects of imperfective futures, participles, and infinitives (and objects of matrix verbs that govern infinitives); objects of passages marked as discourse; questions. The frequencies in this homogeneous corpus differ from those reported by Bivon (1971:42), who used a larger corpus composed of texts of varied genres. In that corpus, SVO was thoroughly predominant (79%) and other orders were correspondingly much less frequent (OVS 11%, SOV 1%, OSV 4%, VSO 1%, VOS 2%). The difference results from the differences in the corpora and the restriction here to меня.
In [11], the first sentence announces the individual who is the hero (the mother),
the intransitive verb (вернулась) then states a property, including a further post-
verbal domain. In the later transitive verbs (перевезёт, взяла), a direct object
follows the verb, as happens frequently. (In the test corpus, 164/359xx = 46% of
transitives with the object меня had the order SVO.) Often the object has been
mentioned earlier and is known; for example всёх нас ‘all of us’, меня in [11]. But
when an object is placed after the verb, the fact that it was mentioned earlier is
irrelevant. It enters the picture only through the verb: it is defined as the entity
that is the patient of a specific predicate. Thus the object argument всёх нас
tells us who was displaced; then post-verbal меня identifies who accompanied
the mother. Other constituents, such as manner adverbs or domains, can follow
and further elaborate the nature of the property that is ascribed to the verb --
yфдхэ/ рфднэ, yф ,фпфх in [11], gjкё in [12]. In the extreme case, a post-verbal
constituent (such as a manner argument) is an essential focus that answers an
implicit question about the whole predicate – in [12], how did she teach?

In general, the patterns of SV, SVO, and SV(O)(X), X any other major con-
stituent, name the subject entity and differentiate it from the property stated
to hold of it. The pattern can be termed HIERARCHICAL.

7.3.3 OVS
The order OVS combines two non-neutral positions: the object is before the verb,
the subject afterwards. Though these are not the neutral positions for these
arguments, the combined pattern is not infrequent (it was third most frequent
in the test corpus with меня: 51/359xx = 14%). OVS order is used for two quite
specific functions. One is to establish a relationship between the object, which
is a known entity, and an abstract condition ([13]). Another is to introduce a new
event – an interaction between the known object and a new individual ([14]):

[12] Соня учил меня весьма энергично и оригинально. Только я начинал
ошибаться и заикаться, как она с возгласом «дурак» хлопала меня по лбу.
Sonia taught me in a very energetic and original manner. As soon as I started to
falter, she, with a shout of “fool,” would whack me on the forehead.

Unexpectedly I was summoned by Uginchus, who began to ask me about my life.

Like SVO, OVS is also a hierarchical construction: it links a known entity (O)
to a new property, which includes a new individual (the S of VS). OVS is in a
sense the inverse of SVO, which links the S to a property that includes another
participant (VO).
7.3.4 SOV, OSV
When both major constituents are before the verb, they establish the entities as bases. The predicate, as focus, then states the relation among them.

In the order SOV, the object is a weak basis. This order is frequent with pronouns or known entities (108/359xx = 30%, or second most frequent, of three-part utterances with менять). SOV order links the current predicate to surrounding text through the effect on the object. In [15], for example, we read the story of the speaker’s departure, in [16], the story of the speaker’s triumphant return:

There arrived the day of my departure. My parents accompanied me to the station. I departed in a state of elation.

[16] Приехал домой, впервые меня поздравляли.
I came home, everyone congratulated me.

In the other verb-final order, OSV, the object is a strong basis. It can be used to contrast this particular entity to others,

I was flattered that it was me that he was inviting.

or to shift attention back to an entity that had previously been prominent:

[18] Управдомыша требовала, чтобы я на ночь отдавал ей свои документы. Я меня такая формальность угнетала.
The manager demanded that I give her my documents every night. For me such formality was oppressive.

This order was the least frequent of the six possible three-part word-order patterns with меня (6/359xx = 1.7%). The result is perhaps surprising, since this kind of “topicalization” of objects is often considered one of the most characteristic functions of Russian word order.

Both orders, VSO and SVO, manipulate information in a similar way. They both establish a list of entities for discussion, and then go on to state a relationship among them. Both orders can be characterized as RELATIONAL. They differ only in the ranking of the entities.

7.3.5 VS(\(X)\), VSO, VOS
Putting the major arguments after the verb presents the world as a holistic situation. First the state of the world is established (the property or event named by the verb), then secondarily the entities that participate in this state are identified.
Although SV(O) order is the neutral order for most predicates, certain predicates often put the domain argument early, then the verb, and then the subject. This order is usual for existential (quantificational, modal, experiential) predicates.9

[19] ²У нас ³осталась ⁴курица.
    We had a chicken left.

    – Listen, Klawochka, it would be enough for me just to place one phone call – and your fiancé will immediately disappear.

Predicates reporting transitions in weather or time or conditions also prefer this order:

[21] ²В Москве ³наступил ⁴голод.
    In Moscow famine set in.

The order DVS imposes an existential, or what is sometimes termed a presentational, interpretation on verbs that are not strictly existential, such as the two verbs of motion in [22]:

[22] ²У Серова есть картина: ²впереди размашисто ³шагает высокий царь ⁴Петр, а
    в³зади, толкая друг друга, ³спешат ⁴толстые вельможи.
    Serov has this picture: in front there strides expansively the tall tsar Petr, and
    behind, elbowing each other, there scurry fat notables.

In existential and presentational functions, the subject entity is not previously known. Once introduced, the entity can then become a participant in further events.

When the predicate and subject are known, VS(O)X order lets the speaker insert a strong focus and answer an implicit question – in [23], about the manner of the reception, in [24], about the location of her abode.

[23] ³Встретил ⁴он ⁰меня ⁰официально-холодно.
    He met me in an official, cold manner.

[24] ³Жила ⁰она ²у младшего сына Андрея. Она приехала на пароходе к дочери на все лето.
    ⁰Однажды ³побывала ⁴она и ³у нас. Я настропали сыновей, чтобы вели себя смирно, не баловались.
    Where she lived was with her younger son Andrei. She had come on the
    steamship to her daughter for the whole summer.
    ⁰Once came she to visit us. I worked on my sons so that they would behave
    calmly, and not act up.

9 Statistical correlations between word order and lexical classes are studied in Robblee 1994.
The order VSX can be used to start a new episode (пособывать in [24]). The usage is sometimes termed “epic,” in memory of its use in chronicles and folk texts to announce new events or episodes. In contemporary Russian, it has connotations of the Soviet imperial style.

The order VOS introduces a new scene involving the object (hence VO) and then, as a strong focus, the as yet unknown subject that is involved:


Why did they release me at all, and why so quickly? My release was arranged by Ekaterina Pavlovna Peshkova.

In the test corpus with меня, the two verb-initial orders were equally frequent: VSO, 13/359xx = 3.6 percent, VOS 17/359xx = 4.7 percent. Both are also used following direct quotes, VSO when the subject is a pronoun (спросил он меня ‘he asked me’), VOS when it is a full noun phrase (спросила меня мать ‘asked of me my mother’). This latter fact suggests that VSO and VOS are indeed close in function; what is crucial is that the subject follows the verb, and the relative position of O and S is less critical. The orders VS, VSO, and VOS can be termed situational: they establish the existence of a situation, a state of the world, that includes certain entities. This function is common to all tokens of these orders, regardless of whether the subject is known or newly introduced. Existential and presentational functions are special instances of the situational function.

7.3.6 Word order without subjects

Not all sentences have subjects. Subjects can be absent for one of three reasons. Different types of subjectless sentences do not have the same word-order proclivities.

Ellipsis: The subject can be omitted by ellipsis between conjoined verbs or between separate sentences. Though the subject is not represented as a constituent, it counts as the entity of which the predicate states a property. Accordingly, the object normally follows the verb, as it does when the subject is overt. This VO order is frequent (40/55xx of elliptical sentences with меня, or 73%).

[26] Он сказал, что не отпустит меня до тех пор, пока я не напишу заявление.

He said he wouldn’t let me go until I had written an attestation.

Impersonal verbs; unspecified agents: If it is usual to use VO when the subject is omitted by ellipsis, OV order is usual when the clause necessarily lacks a subject – when the verb is impersonal ([27]) or in the construction with an indefinite third-plural agent ([28]).
Nausea overcame me.

They led me along a corridor. The corridor turned, [they] led me into a small room.

In the third-plural agent construction, VO does occur, but infrequently (only 11/72 tokens, or 15%, of the tokens with меня as object). In such cases the O is often the strong focus: Он пришел в комнату.

7.3.7 Summary of word-order patterns of predicates and arguments
The basic functions of word-order patterns are summarized in Table 7.2, with illustrative examples and overly explicit interpretive glosses in English. There seem to be three groups of patterns. Intransitive SV and transitive SVO and OVS are hierarchical: they state properties of a privileged individual. Intransitive VS and transitive VSO and VOS are situational: they present the world as a holistic situation in which the property overshadows the identity of the individuals involved. Transitive OSV and SOV are relational: they list elements, then state a relation among them.

7.3.8 Emphatic stress and word order
The speaker can choose to mark one word with a stress distinctly louder than the stresses on other words in the immediate vicinity. Emphatic stress can be used on words in different positions: не пришел к нам дядя приехал "to us came uncle" ~ дядя не приехал к нам приехал дядя. Emphatic stress might seem to override the function of word order. In actuality, word order retains its usual functions. With emphatic stress, the speaker signals that this word is more informative than other words. That is not the same as the function of word order, which is to suggest a strategy for interpreting words together. The value of word order is preserved when emphatic stress is used with different orders in analogous contexts. For example, меня is stressed in both [29–30], but occupies a different word-order position and has a different value in each:

[29] Меня польстило, что именно он приглашает.
I was flattered by the fact that I was being invited.

[30] Я был непомерно горд и доволен, что он выбрал именно меня в свои помощники.
I was immeasurably proud and gratified, that he had chosen me for his assistant.

Table 7.2 Basic word-order patterns of verb and major arguments

<table>
<thead>
<tr>
<th><strong>Intransitive</strong></th>
<th></th>
<th></th>
</tr>
</thead>
</table>
| **SV(X)**   | *hierarchical*: given entity S, V(X) is property                     | 9Мать *вернулась* o со станции  
|                |                  | ‘As for my mother, what she did was return from the station.’ |
| **(X)VS**   | *situational (existential)*: establishes relevance (existence) of S in X | 9У нас *есть* 5курица.  
|                |                  | ‘By us remained a chicken.’ |
| **VS(X)**   | *situational (epic)*: establishes new situation involving known S, or new property X of known S | 6Однажды *побывала* 5она и 6у нас.  
|                |                  | ‘It once happened that she spent time also with us.’ |

<table>
<thead>
<tr>
<th><strong>Transitive</strong></th>
<th></th>
<th></th>
</tr>
</thead>
</table>
| **SVO**   | *hierarchical*: differentiates given entity S from property VO; links to prior text through S | 9Она *взяла* 6меня 6на базар.  
|                |                  | ‘As for my mother, what she did was take me to the market.’ |
| **OVS**   | *hierarchical*: differentiates given entity O as basis from property VS; links to prior text through O | 9Меня *ждало* 5разочарование.  
|                |                  | ‘What happened to me was that I was met by disappointment.’ |
| **SOV**   | *relational*: given entities S and O, V states relation between  | 9Все 8меня 7слушали.  
|                |                  | ‘As for everyone and me, what happened was that they listened to me.’ |
| **OSV**   | *relational*: given unexpected O, and given S, V states relation | (Именно) 6меня 5он 7приглашает.  
|                |                  | ‘What happened to me in particular with him was that he invited me.’ |
| **VSO(X)** | *situational*: property V is situation encompassing S and O; X focal | 9Встретил 5он 6меня 5холодно.  
|                |                  | ‘Then it happened that he met me in some fashion, namely coldly.’ |
| **VOS**   | *situational*: property V encompasses O;  
|                |                  | 6Отхлопотала 6меня 6Екатерина Павловна Пешкова.  
|                |                  | ‘Then it happened to me that I was saved by someone, namely EPP.’ |

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| **OV**   | *relational*: VO states property | 6Меня *тошилило.  
|                |                  | ‘As for what happened to me, I was made ill.’ |

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| **OV**   | *relational*: VO states property | 6Меня *ввели* в небольшую комнату.  
|                |                  | ‘What happened to me was that I was led into a small room.’ |

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| **VO**   | *hierarchical*: equivalent to hierarchical SVO | 5Давыдович улыбаясь, хлопал 6меня по плечу.  
|                |                  | ‘As for Davydovich, he smiled, and as for that person, what he did was slap me.’ |
With the pre-verbal object in [29], the sentence is about the individual and how he was treated: ‘I was flattered that I was treated in this fashion’. In [30], the issue is who was chosen: ‘I was gratified by the fact that he chose a person who turned out to be myself’. Even with emphatic stress, word-order patterns have their usual values.

7.3.9 Word order within argument phrases
If considerable freedom is granted to the order of major constituents, word order within argument phrases in prose writing and in speech is much less flexible. As a rule, adjectives occur before the head noun, and genitives and other arguments (of event nouns) occur after the head noun. Complex modifier phrases – participles and adjective phrases in which the modifier has its own dependent arguments – can come in either order. Before the noun, they are more integrated. After the noun, they are more detached, semantically and prosodically.

There is one class of modifiers that not infrequently comes after the noun, and that is determiners – demonstratives and possessive adjectives and existential adjectives (какой-то). After a noun, such modifiers have weak stress. They have the flavor of an epithet that reminds the addressee of a property which the speaker takes as known and established. In спектакль наш<фсс> имел большой успех ‘the performance of ours had great success’, the speaker reminds the addressee that the play being discussed is associated with the speaker.

When an ordinary adjective comes after its head noun, it imputes essential reference to the phrase; [31] distinguishes one variety of the head noun from other possible varieties:

[31] Здесь не нашлось комната отдельной.
Here there was not to be found a room apart.11

7.3.10 Word order in speech
It is generally assumed that word order in speech differs from word order in writing.

Speech often uses a distinctive construction in which two constituents of an argument phrase – adjective and noun, quantifier and noun – are separated, bracketing other material:12

Quite the year I had.

[33] Кошмар, их там много ой, идите вы к чертовой бабушке.
What a nightmare, of them [= cockroaches] there are a lot . . . Oh, go to hell!

11 Discussion: Schaller 1966:122, Bivon 1971:76 ([31], from Solzhenitsyn).
In the use of word-order patterns of major constituents, speech and writing differ at least in preference. It seems that, in speech, speakers are more inclined to view the world as relations among entities, expressed as bases before the predicate, as in [34]:

[34] Она год вроде с этим мальчиком встречается, она на три года старше, <...> все хорошо, все в кайф. Мама его обожает.

She for a year or so with this boy has been going out, he’s older than she is by three years, <...> it’s all fine, it’s cool. His mother adores her.

Here the speaker makes a list of the elements relevant to a situation – subject (она), temporal duration (год), a domain (с мальчиком). This inventory of entities is tied together by the predicate at the end, which states how these elements are related to each other – in [34], they are all components of courtship: встречается. Similarly, the components of comparison in [34] are named before the predicative ста́рше that states their relationship, and the mother and bride are named before their relation is stated.

While SOXV is common in speech, this is not to say that SVD and SVO are missing entirely from speech. They occur in narrative structured around the deeds of the subject:

[35] Ну вернулись из этого каньона / опять уже стало темнее / мы разбили ... опять палатки

Well then we came back out of that canyon / it started to get dark again / we broke out our tents again.

Evidently, word-order patterns have analogous values in speech and in writing, but speech and writing have different preferences with respect to what they say. Writing and narrative are more likely to hierarchize entity and predicate (SVO, OVS), while speech and commentary prefer to list entities and then state the relationship (SVO). The difference can be seen by comparing [36], a snippet of conversation, and [37], the commentary provided by the speaker who transcribed [36]. In the conversation ([36]), both objects come before the verb, while the commentary uses SVDO order to report the same event ([37]):

[36] – Вита, ты бабуле коньчка налил?
Vitia, did you granny some cognac pour?

[37] Вита наливает Наташе коньяк.
Vitia pours for Natasha cognac.

What is different is the willingness, the predisposition, of speech to present the world as relations of entities rather than as hierarchical statements of entity and property.
7.4 Negation

7.4.1 Preliminaries
Negation in Russian, as in other languages, is a powerful operator: it selects out some word and its meaning and then forces one to consider alternatives. To assert “not $\phi$” is to allow or even suggest that, under some other circumstances, on some other occasion, in some other world, the opposite state of affairs might hold instead. The significance of negation, then, is not merely that some situation is denied, but that we are forced to consider both alternatives at once.

Negation can apply to various parts of speech (nouns, verbs, adjectives). Negation interacts with other processes such as case.

7.4.2 Distribution and scope of negation
Negation in Russian is generally local. To negate a constituent other than the verb, the negative particle is placed next to the element itself.

For the oral examination in Russian, we were examined by the not old as yet professor Ivan Nikanorovich.

Mushrooms love to grow under this tree, but not under that one.

I read it, read it again. The phrases were long; they did not fix into my brain immediately.

One might note that, in English, negating the predicate can often be understood, by synecdoche, to negate a constituent of the predicate phrase; thus it is possible, even preferable, to translate [41] and [42] into English with verb negation. When in Russian the negative particle is put next to the verb, it negates the verb, not some constituent of the verb phrase.

One of his lectures about Freud I have not forgotten.

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Only occasionally does negation of the verb seem to have force over an argument ([44]):\

Эти чиновники понимали, что в администраторах долго не усидишь без высокой ученой степени.
These bureaucrats understood that you don’t stay long as an administrator without a higher educational degree.

Russian is fond of negating both a modal auxiliary and its dependent infinitive:

Я различал и один голос, и второй, требовавшие, чтобы я не спал, но я не мог не спать.
I made out one voice, and another, which were demanding that I not sleep, but I could not help but sleep.

7.4.3 Negation and other phenomena

Negation and existential pronouns: Negative particles form two series of negative existential pronouns. Pronouns in ни( ) occur with a negated predicate, and preclude any individual in a factual statement (§4.9.2). Another series of negative pronouns, in не( ), combine with infinitives, whose subject, if overtly expressed, is dative. The construction denies the possibility that there could exist any possible entity that would fit in the predication (§5.10.5).

Negation and case: A negated transitive predicate often takes a genitive object instead of the expected accusative (§5.4). The subjects of existential intransitive predicates, which would otherwise be in the nominative, appear in the genitive when the predicate is negated (§5.3).

Negation and predicatives: Negating a copular sentence with a predicative noun is very likely to produce an instrumental case in the noun, for the reason that negation limits the validity of the state and invites the consideration of the alternative polarity in some other world (‘not φ in this time-world, but possibly φ in another time-world’). The validity of the state is then limited; the instrumental occurs naturally with states that are bounded (§5.2.5).

Negation and complementizers: Negation has an affinity with irrealis modality and essentialist reference of entities. As a consequence, negating a matrix predicate of speech (thought, belief, attitude), as in [46], sometimes elicits чтобы – the irrealis conjunction – in place of что in complement clauses.

The presentation of information

The special properties of negation derive from the fact that negation is an operator that proposes alternatives, thereby raising the question of which alternatives are to be considered; even as negation proposes one thing, it implies the imminent possibility of the opposite.

7.5 Questions

7.5.1 Preliminaries
Questions, along with imperatives, are the most overt form of interaction between the partners of the speech dyad. It is reasonable to distinguish between content questions and polarity questions. Just as some assertions can be taken as commands or requests, some assertions have the force of questions.

7.5.2 Content questions
Content questions are formed with one of the interrogative-indefinite pronouns, ктó ‘who’, чтó ‘what’, когдá ‘when’, and so on.

Откуда везли? что везли? куда везли? кому везли?
From where were they carrying them? What were they carrying? To where? To whom?

While котóрый has become the most general relative pronoun, as an interrogative it is still restricted to selecting out one individual from a pair or limited set:

На роль было две кандидатки – Соня и другая девушка. Котóрая лучше?
There were two candidates for the role – Sonya and another girl. Which was better?

Usually the question word comes at the front of the clause ([49]), but it need not, if the question can be anticipated – for example, as part of an exam or interview ([50]). As an echo or confirmation question, the question word can come last ([50]):

Где вы учились? Where did you study?
Вы ege учились? Where was it you studied?
Вы учились ege? Where did you say you studied?

16 Restan 1972, recently Comrie 1984; on negation and questions, see Brown 1999[b].
It is possible, more easily in Russian than English, to use two interrogative pronouns in one sentence ([52–53]): 17

[52] Кто и когда изобрел компьютерную мышь?  
Who invented the computer mouse and when?

[53] “changed”: Указание, кто и когда последний раз менял данную анкету.  
“changed”: an indication of who made the last change in the form, and when.

Multiple questions can be understood to have a single answer (as in [52], where the perfective изобрел implies a single event) or a distributive set of answers (in [53], the imperfective менял implies iteration, hence one person for each occasion). Both question words can be positioned at the front of the clause ([52–53] above) or one can be left internal to the clause ([54–55]):

[54] Кто изобрел и когда компьютерную мышь?  
Who was it, and when, that invented the computer mouse?

[55] Кто изобрел компьютерную мышь и когда?  
Who was it that invented the computer mouse, and when?

7.5.3 Polarity questions and answers

Yes–no, or polarity, questions in spoken Russian are formed by preserving the word order expected for an assertion while using question intonation, normally IC3, focused on one constituent. Focused on the verb, IC3 questions the verb or the whole situation ([56]):

[56] Есть папки еще?  
Are there any more folders?

[57] Он там своей машины не имеет?  
Doesn’t he have his own car there?

If the focal syllable is another constituent, the question focuses on that constituent:

[58] A: Это твоё шампанское?  
Is that your champagne?

M: Нет, мое в холодильнике.  
No, mine’s in the refrigerator.

In written Russian, polarity questions can be constructed as in spoken Russian, by presuming the intonation contour that would be used in speech. Polarity

17 Multiple questions in Slavic have attracted attention for some time (Rudin 1988), in large part because they seem to violate the long-standing assumption in formal syntax that question words must be placed in a unique, privileged (structurally defined) position at the front of the clause. The tradition has since come to the view that the initial position of the question word is motivated not by notational necessity, but (in effect) by discourse (Strahov 2001).
questions can also be marked with the particle *ли* in written (or bookish oral) Russian. The particle is placed after the constituent that is questioned, which occurs at the beginning of the clause. After a verb, *ли* questions whether the event or state as a whole occurs or exists:

[59] Любила ли она меня? Кажется, тоже любила.
Did she love me? It seemed she loved me too.

After another part of speech, *ли* questions whether that particular part of the information is correct – the time frame in [60], the cause in [61], the quantifier in [62]:

[60] Скажите, а давно ли вы замужем?
Tell me, is it a long time you have been married?

[61] Мы узнали, что его посадили. За что? Не за распространение ли стихов Гумилева?
We learned that he had been sent to prison. For what? Was it not for distributing the poems of Gumilev?

[62] Много ли человеку нужно?
Is it much that a person needs?

The particle *ли* makes indirect questions that can be used as arguments; for example, the question clause is the subject of a predicative in [63]:

[63] Будут ли расстреливать заложников или нет – оставалось неизвестным.
Whether they would shoot the hostages or not remained uncertain.

Answers to polarity questions vary in length and explicitness. The response can be minimal, consisting of just a polarity word, *га* ‘yes’ or *нет* ‘no’. Or the focal word that is questioned can be repeated,

[64] М: Таблетки сюда, да? Алена?  Should the tablets go here, yes? Alena?
A: *А? Таблетки га.*  Hm? The tablets yes.

[65] Н: Я не могу ее красиво. Вот цвет я поменять не могу. I can’t paint it. The color I cannot change.
    И Это в доверенности оговорено?  Is that stipulated in the permit?
    Н: Да, оговорено.  Yes, stipulated.

Or much of the syntax of the question can be repeated, with or without a polarity word:

[66] Л: У вас участок есть там, да?  You have a plot there, yes?
A: *Есть участок. Растет что-то в нем. Мать занимается . . .*  There is a plot. Something’s growing there. Mother tends it.
Л: Помидоры уже есть? Are there tomatoes already?
A: *И помидоры уже есть.*  And there are already tomatoes.
Negation interacts with questions in a subtle fashion. In asking a positive question, the speaker makes no presumption about the answer. But in asking a question using a negated verb, the speaker indicates that the positive situation is expected, or hoped for, or imagined, despite the real possibility that the negative situation obtains. Thus не удалось ли кому-нибудь узнать ‘has no one succeeded in finding out’ suggests that the speaker suspects the situation might be true – that someone has learned the answer. In response to such negated questions, speakers usually respond to the positive sense that the question would have without negation. Thus a positive answer means the situation under discussion is true, confirming the underlying positive possibility (in [67], yes, consistent with your suspicion, there will be isolation), and a negative answer means that the situation is not true (in [68], no, contrary to your suspicion, service will not go bad):

[67] -- Не получится ли так, что ваша фракция останется в одиночестве, а этот союз всё равно состоится?  
- Да, это возможно.  
- Will it not happen that your party will remain isolated, but the union will take place anyway?  
- Yes, this is possible.

[68] -- Не ухудшится ли качество телефонной связи после установки программы?  
- Нет, не ухудшится.  
- Will not the quality of the telephone connection deteriorate after installation of the program?  
- No, it will not.

Sometimes, however, negation seems genuine, as can be indicated by phrases such as наверное ‘most likely’, конечно ‘of course’. The speaker wants to confirm that the negative situation holds. Then the addressee responds with да and a negative verb to confirm the first speaker’s negative prediction – ‘yes, as you say, it is true that not φ’ ([69]):

[69] -- Ты конечно в срок никак уже не кончишь?  
- Да, наверно не кончу.  
- You of course will never finish by the deadline?  
- Yes, no doubt I won’t finish.

To dispute the speaker’s negative prediction, the second speaker responds with нет and a verb of positive polarity, with the sense of ‘no, au contraire, it is true that φ’ ([70–71]).

18 Discussion: Zemskaia 1973:364 ([70]).
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[70]  – Ты конечно в срок никак уже не кончишь?  – You of course will never finish by the deadline?
   – Нет / я постараюсь.  – No / I’ll make an effort.

[71]  – Они, наверное, не поняли ничего?  – They most likely didn’t understand anything?
   – Нет, вы знаете, поняли, некоторые даже очень поняли.  – No, you know, they understood, some of them even understood quite well.

Polarity operators not only apply to the literal words of the previous question, but can respond to questions that the speaker anticipates.19 In [72], the speaker responds not by listing the songs but to the implicit question of whether she can remember what was sung.

What did we used to sing then? No, that’s impossible to remember.

The polarity words га and (less usually) нет can be inserted in many places in an utterance to focus the question on a specific constituent, as in [73].20

[73]  На первом / га? нужно ехать.
On number one [tram] / yes? we need to ride.

Да, especially, is used initially in utterances to remind the addressee of what the speaker takes to be an obvious truth:

[74]  H: Я им печенье принесла между прочим сегодня.  – I brought them some cookies by the way today.
   A:  – Кому?  – To whom?
   H:  Да мужчинам!  – To the guys [of course]!

[75]  A:  – Так, а зачем упаковка для яиц, можно узнать? это нужно?
   B:  – Да нет.  – Well no.

In this way га can even combine with нет, as in [75].

7.6 Lexical information operators

7.6.1 Conjunctions
The all-purpose conjunction и combines pairs (or multiples) of analogous elements: argument phrases (только моя мать и сестра Соня ‘just my mother and sister Sonia’), adjectives (одно из самых уютных и живописных сел ‘one of

the most pleasant and picturesque villages’), and predicates (старуха засияла и воскликнула ‘the old lady beamed and exclaimed’). When и applies only to one element x, it indicates that it is surprising that this single element x participates, given the participation of other elements: В страхе жил и я ‘In terror lived I as well’. Put before the initial element as well as the second, it emphasizes the unexpected participation of both: одинаково презираемые и большевиками, и беспартийной массой ‘detested equally both by the Bolsheviks and by the party-less masses’.

Да adds an additional element or property, one which is not entirely expected or one which is a concession: Как нигде не числящийся, да еще не член профсоюза я не имел никакого права хлопотать о бюллетене ‘As someone who was never officially registered for work, not to mention not a member of a union, I had no right to seek a medical dispensation’. Stylistically it is conversational to folksy.

Или ‘or’ likewise applies to various kinds of elements – predicates (Он не понял или сознательно отверг ленинские идеи ‘He did not understand or deliberately rejected Leninist ideas’), adverbs (быстрее или медленнее ‘more quickly or more slowly’), arguments (любой председатель колхоза или директор совхоза ‘any chairman of the kolkhoz or director of a sovkhoz’). The proposition holds of at least one of the two elements, quite possibly both. When или is repeated before both elements, it forces the exclusive (disjunctive) reading: Ханы Средней Азии или выпускали заложников, или без всякого суда умерщвляли ‘The khans of Central Asia would either release the hostages or put them to death without any trial’. Либо serves similar functions in a more portentous style: Браки заканчивались либо разводом, либо смертью мужа в тюрьме ‘Marriages would end either in divorce, or with the husband’s death in prison’.

The emphatic negative operator ни, which is used to make a series of negative existential pronouns such as никто ‘no one’, can be applied to constituents other than a pronoun, when it emphatically precludes the participation of that element (ни одной ягоды in [76]). Doubled, the combination ни . . . ни . . . conjoins and emphatically rejects both of two possible elements ([76]):

[76] Кушайте сколько хотите, но ни в карман, ни в сумку ни одной ягоды.
Eat as much as you want, but not into your pocket, not into your bag, not a single berry.

7.6.2 Contrastive conjunctions
Ho and a create contrasts.21 Ho presumes or imputes a general rule which some particular situation or individual does not follow; the fact that it does not is

noteworthy. In [77], a brief acquaintance by general rule would imply a super-
icial friendship, but not in this instance. In [78], the individual dog Black is an
exception to the general treatment of dogs.

[77] Я знал Игоря Владимировича менее года, но хорошо.
I knew Igor Vladimirovich less than a year, but well.
[78] Охранники перестреляли всех собак, но Блэк убежал.
The guards shot all dogs, but Black ran away.

*Ho*, then, differentiates a specific individual or situation from a general rule.

The conjunction *a* takes for granted a background situation in which an in-
dividual has a certain property, from which one might expect other individuals
to have the same property. Contrary to this expectation, insists *a*, the property
has the opposite polarity for another individual. In [79], the kolkhoz survived in
one village, but not in another nearby village.

[79] В селе Любец, где я сейчас живу, колхоз уцелел. А в селе Котове, где я жил
tогда, колхоз сразу развалился.
In the village of Liubets, where I live now, the kolkhoz survived. But in the village
of Kotovo, where I lived then, the kolkhoz immediately fell apart.

Often the contrast is made explicit by *не . . ., а . . .* in [80], one time frame as
opposed to another:

[80] В своей статье Зиновьев без каких-либо доказательств утверждал, что мировая
революция наступит *не* просто скоро, *а* в том же году, в ближайшие месяцы,
даже через неделю.
In his article, Zinovev without any proof asserted that world revolution would
arrive not just soon but in that very year, in the coming months, even in a week.

Thus *no* differentiates one instance (usually a situation) from a general rule,
while *а* contrasts one specific instance (usually an entity) from another analogous
instance.

7.6.3 *Также, тоже*

*Tакже* and *тоже* both say that something under discussion now, whether an en-
tity or a situation, is similar to something that is already known. (The similarity
can be explicit and known in advance, or it can be imputed retroactively by the
new utterance.) At the same time, the similarity of the new to the given is not
t entirely expected and is worthy of note.22

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22 A rich literature, though lacking consensus: Boguslawski 1969, Dahl 1969, Paducheva 1974[a],
1985, Yokoyama 1986 (306--26; [94], from Gvozdev). A clearer picture results if the opposition is
phrased in terms of polarity (of a property) vs. a list (of entities).
Тоже operates on entities. It presumes or imputes a background in which one individual has a certain property, and allows or invites the expectation that other individuals would not also have that property. Against this background, тоже asserts that, contrary to possible expectations, another individual shares the property in question. Тоже, usually stressed, occurs after the constituent on which it operates, usually an argument phrase that comes before the verb. That argument can be the subject ([81]), the subject of an existential predicate ([82]), or a pre-verbal object ([83]):

[81] Все орал, и я тоже орал: «Долой Карапетяна!»
   Everyone shouted, and I also shouted, “Down with Karapetian!”

[82] Конвертов тоже было.
   There were no envelopes as well.

[83] На следующий день явились еще две семьи с малыми детьми, их тоже разместили в бухгалтерии.
   The next day there appeared two other families with small children, and they as well were put into the office.

The domain of an existential or modal predicate:

[84] От той церкви теперь тоже не осталось и следа.
   Of that church as well there remained no trace.

[85] Мне тоже нужен билет.
   I also need a ticket.

Or even the occasions for events (in [86], a series of attempted meetings):

[86] Трижды я ездил в Ленинград, стремился с ним встретиться, его не заставил.
   Three times I went to Leningrad, I tried to meet with him, I couldn’t find him.
   Дважды, во время его приездов в Москву, пытался к нему пробиться, но тоже безрезультатно.
   Twice, during his trips to Moscow, I tried to get to see him, but also without result.

The predicate need not be repeated:

[87] Все засмеялись, и Оксана тоже.
   Everyone burst out laughing, and so did Oksana.

Тоже, with weak stress, can be applied to properties if they are treated as elements in a set of possible properties:

[88] Он был умен, но он был и ловок тоже.
   He was intelligent, but he was clever as well.
Тоже usually follows immediately after an argument phrase, but not always. Additional possibilities, with interpretive glosses, are given in [89], which presumes a situation in which Vitia will arrive and Misha may or may not do likewise:

[89]
Витя придет вечером и
Миша тоже придет вечером
Миша придет тоже вечером
Миша придет вечером тоже

Тоже operates on the individual (Миша) and any intervening constituents; whatever remains to the right of тоже is the property on which the comparison hangs – for instance, in и Миша придет тоже вечером, it is Misha’s arrival specifically in the evening that makes the situation similar to that with Vitia. When тоже is final, at issue is the similarity of whole facts – Vitia’s evening arrival and Misha’s evening arrival.

While тоже operates on entities in a list, также operates on situations. Также presumes (or imputes) a background in which a property holds of an individual. Также evokes and then disputes the expectation that no other related property holds. What stays constant and what contrasts depends on context. Four cases can be distinguished.

Most transparently, an additional related property is said to hold of one individual:

[90] Владимир писал там пейзажи, и он также сделал иллюстрации к двум или трем книгам.
Vladimir drew landscapes, and he also did illustrations to two or three books.

In [90], two kinds of endeavors are compared and contrasted. In this use, также follows the argument and precedes the predicate stating the new property.

In a second construction, также comes between a preceding verb and a following argument. The effect is to assert that the background situation is not limited to individuals named in the prior context, but includes another individual; it is the fact of the existence of another individual, of a certain type, that is the new, surprising situation. In [91], the dinner company includes, surprisingly, a captive officer. In [92], the possessions of the uncle include, surprisingly, cobbler’s tools.

[91] За обеденным столом сидел также пленный австрийский офицер Зальцман, который был прекрасным скрипачом. Он давал уроки музыки девочкам Бобринским.
At the dinner table there also sat a captured Austrian officer Salzmann, who was a superb violinist. He gave music lessons to the Bobrinsky girls.
My uncle brought as many things with him as he could, such as clothing and footwear. He also brought a box with cobbler’s tools. He intended to trade his legal career for the cobbler’s trade.

The newly introduced individuals become the topic of the subsequent discourse (Salzmann and his music lessons; the uncle’s aspirations to being a cobbler).

Third, та́кже, presuming a situation in which a property φ holds of an individual x, says that an analogous property φ’ holds of an analogous individual x’. What is of interest is that the second situation holds at all. In [93], Kostia’s confessions are compared to the author’s.

Here та́кже is used after the subject.

With respect to such examples, when analogous properties hold of two individuals, it is often said that тоже and та́кже are interchangeable, with only the stylistic difference that та́кже is formal, bookish, while тоже is said to be colloquial.

Still, there is a difference. Тоже imputes a set of students who perform well and asserts that the set is not limited to the one previously known individual (sister). Та́кже in this context compares the existence of situations, emphasizing that it is noteworthy that the second exists at all: not only is one fact true (about sister), but as if that were not enough, a similar fact can be reported (about brother). They are close, but not identical in value.

A fourth, idiomatic use of та́кже is the phrase a та́кже added to an argument in a phrase in which one or more entities are already listed ([95]):
In summary, тóже starts with the observation that an individual has a certain property, and counters the possible presumption that no other individuals have that property: the property is held constant, and entities are contrasted. (By extension, properties can be treated as elements in a list of possible properties, and contrasted in the same way.) 23 Также, in contrast, compares and contrasts situations. With также, the fact that the initial situation holds at all might seem to preclude any further related situation, but in fact – insists также – another related situation holds as well. Often the new situation is a new property of the same individual ([90]), but there are other possibilities. Также can establish the existence of a new entity, defined in essential terms ([91]), or establish the existence of an unexpected parallel event ([93]). When, unusually, the constituent directly affected by также is an argument phrase, также does not merely contrast two known individuals, which is the purview of тóже, but compares two situations which hold of two different individuals ([94]).

7.6.4 же
The particle же, frequently used in colloquial Russian, presumes (or imputes) a background situation of a certain polarity; the particle then asserts that the actual polarity is the opposite of the presumed polarity. 24 For example, in [96] the addressee presumes a certain property (availability to serve as guide); the response with же counters that expectation.

[96]  
- Вы мне покажете Большой театр?  
  - Я же первый день в Москве!  
  - Will you show me the Bolshoi?  
  - [But] I'm [only] in Moscow for the first day.

Же is used frequently to insist that the identity of some entity is truly this one (indeed x), either as opposed to the contrary expectation that this specific individual would not be involved (rather than not x) or as opposed to other possible entities (rather than x' or x''). In [97], the speaker confirms that these UV rays are indeed the culprit, lest one think otherwise:

23 This analysis extends to two unusual examples cited in Paducheva 1991. In Pushkin’s В Польшу съездил я тоже “To Poland went I as well”, whole events – journeys – are listed and compared. In Gorky’s Мама очень плакала . . . , больная потому что и злая тоже ‘Mama cries a lot, she's sick is why, and foul-tempered as well’, properties become elements in a list.

24 Vasilyeva (n.d.:54) ([96]) says же means “insistent emphasis on the indisputability of a fact.” Rathmayr (1985:254) suggests that же signals “an appeal to that which is already known in supplementary motivations (explanations, commentaries, justifications) of verbal or non-verbal acts.”
Ultraviolet-B rays are familiar. It is because of them that the skin tans, it is they that are the cause of burns.

It is this sense that is the basis for the usage of же in various idiomatic phrases: в первый же день ‘on the very first day’, такое же ‘exactly such a’, тут же ‘right there’, когда же ‘and when indeed’, почему же ‘why indeed’.
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