

SNOW, MARIA, AINO, ANNA, KEKTÄKUWTE, ESRA

MINÄNKÄLE



# Contents

<b>1</b>	<b>Introduction</b>	<b>5</b>
<b>2</b>	<b>Phonology and orthography</b>	<b>7</b>
2.1	Inventory and allophony . . . . .	7
2.1.1	Consonants . . . . .	7
2.1.2	Vowels . . . . .	7
2.2	Phonotactics . . . . .	8
2.3	Prosody . . . . .	9
2.4	Morphophonology . . . . .	9
2.4.1	Suffixes . . . . .	9
2.4.2	Compounds . . . . .	10
2.5	Orthography . . . . .	11
2.5.1	Latin alphabet . . . . .	11
2.5.2	Cyrillic alphabet . . . . .	12
2.5.3	Inuktitut syllabics . . . . .	12



# 1

## *Introduction*

This is a language with all of the things in it that we like. Here's a list of things we like that are in this language:

- A serious reconstruction of Proto-Uralic
- Feeling like we're foxes
- Feeling like Siberia never got colonized by the Russians or invaded by the Mongols
- Yukaghir things
- Loanwords from famous literary and scientific languages for science stuff
- Loanwords from words we know (mainly Hungarian and English ones) for modern stuff
- Senary
- Noun incorporation
- Not having to use case markers
- Case markers
- Octal
- Derivational morphology
- Evidentials
- Not marking tense but having endless aspects
- Maybe-realis and irrealis moods
- More moods but actually it's more derivational morphology
- Decimal
- Not having to distinguish number

- Having to distinguish affiliation
- Phonologies with small syllables
- Vowel harmony
- Mixed-base hexadecimal/base-64
- Not using any conjunctions or relativizers
- Free word order
- Verb serialization
- Conlanging

Here's a list of things we like that are *not* in this language:

- Austronesian alignment (our noun incorporation system approximates it)
- Syllabic consonants
- Tones
- /ø/
- Phonemic length
- Weird number systems, such as p-adic or bijective ones
- Particles used for syntax
- A practical, unique writing system (it separately has a practical one and a unique one)

It's good and fun. We'll probably use this for journal entries and poetry.

## 2

# Phonology and orthography

## 2.1 Inventory and allophony

### 2.1.1 Consonants

Labial	Alveolar	Postalveolar	Prepalatal	Velar
m	n		ɲ ⟨ń⟩	ŋ
p	t	ʈʂ ⟨č⟩	ʈʈʂ ⟨ć⟩	k
	s	ʃ ⟨š⟩	(ç) ⟨ś⟩	
w	ɸ l r ⟨d l r⟩		ɸʲ j ⟨ď j⟩	ɣ ~ ʁ ⟨g⟩

Minänkäle's consonants don't change much based on where they are. The stops and affricates /p t ʈʈʂ k/ can occur as geminates anywhere in the middle of a word, but not at the edges. /ɣ/ is realized as [uɣ] between vowels and before consonants, and [ɣ] elsewhere. /ʈʈʂ/ becomes [ç] at the end of syllables, where it's spelled ⟨ś⟩. Between vowels, it wavers between either, as [ʈʈʂ ~ ç], and is still spelled ⟨ć⟩. It is also marginally phonemic in a small set of Indo-Iranian loanwords that begin with [ç], such as *śäćcemä* and *śēta*.

### 2.1.2 Vowels

Minänkäle has a system of eight vowels in the first syllable of a stem, and only two vowels elsewhere. The initial vowel /a/ is realized as [ɑ]. The non-initial open vowel /a/ is realized as [æ] ⟨ä⟩ in stems that begin with one of /i y e æ/, and [ɑ] ⟨a⟩ otherwise (i.e. in stems that begin with /u ɣ o ɑ/).

There are certain stems that begin with /i/ as the first vowel, but have [ɑ] for their second vowel, and thus for all subsequent instances of /a/. Thus, there are really *two* /i/ phonemes: /i<sub>1</sub>/, after which /a/ is realized as [æ], and /i<sub>2</sub>/, after which it is realized as [ɑ]. The Latin and Cyrillic orthographies distinguish these indirectly by notating the difference between non-initial [æ] and [ɑ], while the Inuktitut syllabics orthography does not distinguish the two. /i<sub>2</sub>/ is rare in native roots, but overwhelmingly common in loanwords

i y	⟨i ü⟩	u
e		ɣ o ⟨ë o⟩
æ	⟨ä⟩	ɑ ⟨a⟩

Initial vowels

ə	⟨e⟩
a	⟨a/ä⟩

Non-initial vowels

from languages that do not have [æ], such as *ipsegelewgeja*, from Latin *psychologia*.

## 2.2 Phonotactics

Minänkäle has four kinds of syllables, each with different rules: stem-initial syllables, non-initial stem syllables, and suffix syllables.

Stem-initial syllables are of the form (C)V(C). The initial consonant, if present, may be any of Minänkäle's consonants, apart from *d*, *g*, *ŋ*, and *r*. (It can't be *ś*, either, since that's just *č* at the end of a syllable.) The vowel can be any of the eight different stem-initial vowels discussed above (§2.1.2). The final consonant can be anything, so long as it forms a legal consonant cluster with the next consonant.

Non-initial stem syllables are of the form CV(C), or just CV(w) if they are stem-final (which they usually are). In either case, the beginning consonant may be anything, and in the non-stem-final case, so may the ending consonant. If the stem has consonantal suffixes attached, then may only be a single consonant that's part of the set of consonants that can occur in suffixes in general (see below), or *-j{m, n}*, when the *-j-* and the nasal are two separate suffixes.

The set of consonants that suffixes can have is far smaller than the ones that can occur in stems. Suffixes can be just a single consonant, or a -CV syllable, or even certain -CCV syllables. They are shown on the right, along with the two vowels that suffixes can have. There can be multisyllabic suffixes, but they're pretty much always made up of multiple shorter suffixes. As noted earlier, long /p t t̪ t̪̥ k/ can't be single-consonant suffixes on their own. Given the rules below, the amount of suffixes allowed is 14 -C suffixes, 36 -CV suffixes, and 256 -CCV suffixes, for a total of 306 single-syllable and single-consonant suffixes.

Stems and suffixes follow the same rules for what consonants can be next to each other. These rules are:

- Two of the same consonant aren't allowed after each other (unless you're talking about long /p t t̪ t̪̥ k/).
- When the cluster is all part of one morpheme, obstruents can't go before sonorants. When there's a morpheme boundary, however, /s ʃ/ are allowed to precede sonorants.
- Obstruents can't go before long /p t t̪ t̪̥ k/ either.
- Sonorants can't go after nasals.
- The only things that can go before /p/ are /m/, and all the non-nasal sonorants besides /w/.
- /n t t̪/ aren't allowed before /t̪̥/, and /n̥ t̪̥/ aren't allowed before /t̪̥̥/.

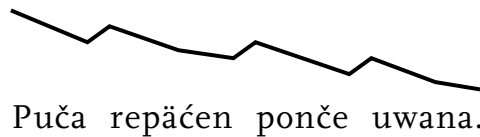
m	n	n̥	ŋ
p	t	t̪̥	k
s			
w	l r	j	ɣ ~ ɰ
Suffix consonants			
ə			
a			
Suffix vowels			



- The only nasal allowed before /k/ is /ŋ/.
- /t tʃ tɕ/ aren't allowed before /s ʃ/.
- /wp/ and /wm/ are not allowed.
- While normally three consonants are forbidden from being next to each other, -jCC- is allowed when there's a morpheme boundary somewhere in the cluster.

### 2.3 Prosody

Similar to the prosody of many Uralic languages, initial syllables of polysyllabic words are stressed using intonation, and also have their vowels extended slightly. Otherwise, all syllables take up roughly the same time. The pitch across a single word is always descending, with a relatively dramatic drop after the first syllable, and a less dramatic descent in subsequent syllables. From word to word, the pitch jumps somewhat, to accentuate the first syllable of each new word. The sentence «*Puča repäčen ponče uwana.*» meaning, “The little fox’s tail soaks in the stream,” has the following melody:



Elements of compounds have special rules for the melodies of their components, covered in §2.4.2.

### 2.4 Morphophonology

#### 2.4.1 Suffixes

All of Minänkäle’s morphology is either compounding or suffixing. When a suffix is added to a stem ending in *-a/ä*, there’s no alterations; they are simply glued together. However, stems that end in *-e* lose the final vowel, so this will often create illegal clusters, usually of three consonants. For two-consonant clusters, the *-e-* is usually just reinserted if the cluster isn’t allowed, as in *nime-je* > *nimeje* and *wäke-ŋä* > *wäkeŋä*. However, if they are two different nasals, then the second one gets deleted. If they are two of the same stop, affricate, or nasal, then they collapse into one long version of that consonant. This is the only way to get long nasals.

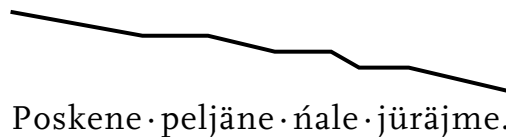
In three-consonant clusters, if the first consonant is *j*, then it’s no problem; that’s allowed. In situations where the first two consonants don’t belong to a word stem together, then the only solution for breaking up the cluster is to reinsert the *-e-*. But if they do, then they can get deleted to make

room. Only nasals, stops, and affricates can get deleted this way, and only if it would make a cluster that's allowed. First, you try deleting the first consonant, as in *manče-ta* > *mačta* and *lēpće-ta* > *lēšta*. If you can't do that, either because it's not the kind that you can delete or it would make an illegal cluster, you try deleting the second consonant, as in *kulke-ta* > *kulta*. If neither of those work, you reinsert the *-e-*.

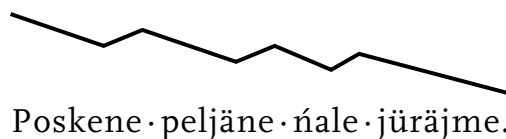
## 2.4.2 Compounds

Minänkäle forms compounds for several reasons: to incorporate nouns into verbs, to string together verbs for serial verb constructions, to string together nouns with other classifying nouns, and to string together concepts into compounds that represent the concept that unites them. Each element of a compound behaves phonotactically like its own word, but the pitch melody used for the compound is different depending on what kind of compound it is.

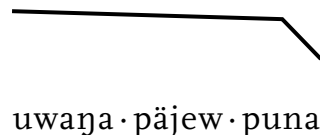
Noun incorporation and verb serialization use the same kind of melody, as they are part of the same kind of construction. In these, the pitch descends as normal, but halts its descent at the first syllable of each new element in the compound. These syllables, like the initial syllables of independent words, are slightly longer than other syllables. The sentence «*Poskene·peljäne·ńale·jüräjme.*» meaning, “I licked and nipped at their cheek and ears,” has the melody:



This freely varies with a similar melody, where the pitch rises before the initial syllable of each element, almost up to the starting pitch of the previous element, and otherwise descends normally.



Classifier-classified compounds have a more-or-less level, high tone for the classifiers, and then start falling after the first syllable of the classified elements. The phrase *uwaŋa·päjew·puna* ‘flowing, willowy fur’ has the melody:



Finally, multi-concept compounds have a falling tone throughout, not distinguishing elements from each other at all.

## 2.5 Orthography

### 2.5.1 Latin alphabet

Given that acronyms are an occasional component of the language, letter names are worth clarifying. The names of the 27 letters of the Minänkäle alphabet, along with their ASCII representation if it differs, are:

A a	<i>a</i>	N n	<i>na</i>
Ä ä Ae ae	<i>ä</i>	Ñ ñ Nj nj	<i>ña</i>
Ć ć Cj cj	<i>ća</i>	Đ đ Ng ng	<i>naŋe</i> or <i>ŋa</i>
Č č Cz cz	<i>ča</i>	O o	<i>o</i>
D d	<i>cade</i> or <i>da</i>	P p	<i>pa</i>
Đ đ Dj dj	<i>đa</i>	R r	<i>re</i>
E e	<i>e</i>	S s	<i>sa</i>
Ě ě Eo eo	<i>ě</i>	Ś ś Sj sj	<i>śa</i>
G g	<i>kimele</i> or <i>ga</i>	Š š Sz sz	<i>ša</i>
I i	<i>i</i>	T t	<i>ta</i>
J j	<i>je</i>	U u	<i>u</i>
K k	<i>ka</i>	Ü ü Ue ue	<i>ü</i>
L l	<i>le</i>	W w	<i>we</i>
M m	<i>ma</i>		

Apart from the above-mentioned graphemes and the behavior of the phonemes they represent, worth discussing is Minänkäle punctuation and typesetting. While loanwords are generally rendered phonetically, it is also acceptable to render them in their original spelling, in which case they are italicized unless they are a proper noun, and any appended prefixes or suffixes are connected with a colon. Acronyms likewise receive suffixes with a colon. Quotes are done with « and », and nested quotes are done with < and >. Punctuation does not change in quotations, affixes are added directly to them without any other indication, clitics are added to them via hyphens, and they do not change the following capitalization; in short, they act exactly like words. In ASCII, · is replaced with –, « and » are both replaced with ", and < and > are both replaced with '. Hence:

«Elä SMS·mege·pelek me *auditorium:na*.» monajme Jonathan:ŋ.

"Eläe SMS-mege-pelek me *auditorium:na*." monajme Jonathan:ng.

“Don’t be afraid to send me an SMS at the auditorium,” I told Jonathan.

