

lel-ʎjɪɸɔ-ɗɪ jɪl lel-ɗɪ jɪl jeʔfle-ʎɸɔɗɪɔ

Middle Rymakonian, the language of Rymako

uruwi

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q^hc^e.ɔn^φ-pebc-delbe^ɔ fle)cə

α^hω^e.ωⁿφ-debc-delbe^o flelc^θ

A complete grammar

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| Contents

0.1	Introduction	3
1	Phonology and orthography	5
1.1	Phoneme inventory	5
1.2	Hacmisation	6
1.3	Phonotactics	7
1.4	Vowel harmony	8
2	Syntax	9
2.1	Basic word order	9
2.2	Questions	9
2.3	Multiple clauses	9
3	Nouns	11
3.1	Number	11
3.2	Case	11
3.3	Noun classes	11
3.4	Definiteness	12
3.5	Declension table	12
3.5.1	Countable classes	12
3.5.2	Measurable and uncountable classes	12
3.6	Pronouns	13
3.6.1	Last-clause pronouns	14
3.7	Compounding	14
3.8	Possession	14
A	Dictionary	19

0.1 | Introduction

1 | Phonology and orthography

1.1 | Phoneme inventory

Middle Rymakonian underwent several sound changes from Lek-Tsaro, in the following order:

$s \rightarrow \text{ɬ}$	$(\blacklozenge\{w, j, u, y\})$	<i>NB this is a whistled sibilant.</i>
$\eta \rightarrow \text{jŋ}$	$(\square\blacklozenge)$	
$\theta x \rightarrow \theta$	$\neg(\blacklozenge\square)[x = \emptyset]$	
$C_1[+fr] \rightarrow C_1[+v]$	$(V_1\blacklozenge V_2[-hi])$	
$\text{ɹ} \rightarrow \text{z}$	$(V_1\blacklozenge V_2)$	
$\{y, u\} \rightarrow \text{ɥ}$		
$V_1[+r] \rightarrow \text{w}V_1[-r]$		
$k \rightarrow \text{c}$	$(\blacklozenge i)$	
$t \rightarrow \text{tʃ}$	$(\blacklozenge\{i, \varepsilon\})$	
$r \rightarrow \text{r}$		

Thus Middle Rymakonian has the following phoneme inventory:

Table 1.1: The consonants of Middle Rymakonian.

	Bilabial	Dental	Alveolar	Palatal	Velar	Glottal
Nasal	m		n	jŋ	ŋ	
Plosive	p b		t d	c ɟ	k g	ʔ
Fricative	f v	θ ð	s z	ʃ ʒ	x ɣ	
(coarticulated)	fx vɣ	θx ðɣ		fʃ vʒ		
(whistled)			ɬ ʂ			
Affricate			ts	tʃ		
Lateral fricative			ɬ ɮ			
Approximant			ɹ	j	w	
Lateral approximant			l			
Tap			r			

Table 1.2: The vowels of Middle Rymakonian.

	Front	Central	Back
High	i	ɤ	u
Mid	ɛ		ʌ
Low		a	

In addition to consonants and vowels, Middle Rymakonian has rod signals, represented by numbers. Rod A is blue and held by one's dominant hand and B is red and held by one's non-dominant hand.

1. Rod A is raised to one's chest, while B is pointed down.
2. Rods A and B are crossed in the front.
3. Rod B is raised upwards in front of the nondominant arm, while rod A is lowered.
4. Rod A is pointed sideways near one's nondominant arm, while rod B is lowered.
5. Rods A and B are extended to the sides.
6. Rods A and B are extended, facing forward.
7. Rod A is raised forward, while B is pointed to the side.
8. Rod B is raised forward, while A is pointed to the side.

Lowering both rods is interpreted as an absence of a rod signal.

If the use of rods are unavailable, the numerals of the positions may be pronounced.

1.2 | Hacmisation

As using IPA is quite wieldly, we shall use the following hacmisation, with superscript letters to indicate phonemes not found in Arka.

Table 1.3: The consonants of Middle Rymakonian.

	Bilabial	Dental	Alveolar	Palatal	Velar	Glottal
Nasal	ɒ		n	n ^ɥ	n ^ɸ	
Plosive	d b		f ɳ	f ^ɥ ɳ ^ɥ	ɭ ɸ	.
Fricative	ɑ u	j ^a z ^u	j z	l s	ɭ ^l ɸ ^s	
(coarticulated)	ɑ ^h u ^h	j ^h z ^h		ɑ ^l u ^s		
(whistled)			j ^o z ^o			
Affricate			ɸ	ɸ ^l		
Lateral fricative			l ^l s ^l			
Approximant			ɸ	ɥ	o	
Lateral approximant			l			
Tap			ɳ			

Rod signs are represented by the hacm digits <1 2 3 4 5 6 7> attached to the end of the verbs they encompass. Proper words are preceded by a backslash <\>.

Note that the hacmisation is slightly different from Lek-Tsaro's use of hacm. Lek-Tsaro's <h s> are now written using <ɭ^l l^l>, for instance.

Table 1.4: The vowels of Middle Rymakonian.

	Front	Central	Back
High	ɕ	ʒ	ə
Mid	e		ɔ
Low		ɪ	

1.3 | Phonotactics

As opposed to Lek-Tsaro, which uses syllables, Middle Rymakonian uses *phonoruns*. The following *defined categories* are used:

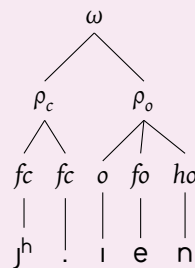
Table 1.5: Categories of phonemes.

Category	Phonemes
Full-open	ɪ e ɕ ɔ ə ɸ u z ^u z z ^o s ɸ ^s s ^l ɥ o ʔ ɣ
Half-open	ʒ ɸ ^l ɔ n n ^u n ^ɸ j ^l ɣ
Neutral	j j ^o l u ^h z ^h u ^s ɪ j
Half-closed	ɑ l ɳ ^l ɳ ^h Δ
Full-closed	j ^a ɑ ^h j ^h ɑ ^l d b ɾ ɳ ^u ɳ ^u ɳ ^u ɸ ɸ ^l . ʔ ʈ

These are converted into *actual categories* as follows:

- Full-open and full-closed phonemes are always realised as open and closed, respectively.
- Half-open phonemes are open unless the previous phoneme is full-closed.
- Half-closed phonemes are closed unless the previous phoneme is full-open.
- Neutral phonemes that do not occur word-initially inherit the actual category of the phoneme before it.
- Neutral phonemes that occur word-initially are closed.

A *phonorun*, then, is a maximal sequence of phonemes that are either all open or all closed within a word. For instance, take $\langle j^h . i e n < x j^h i . e n \rangle$:



Note that two phonemes in the word were metathesised when it was derived from Lek-Tsaro. In general, a word with n spoken phonemes cannot have more than $\lceil n/2 \rceil$

phonoruns. Therefore, the following changes are executed in order until an application of one rule reduces the number of phonoruns to an acceptable number, after which the other rules are not executed:

$$\begin{aligned}
X_1[do]X_2[dc]R[do] &\rightarrow X_2X_1R \\
X_1[dc]X_2[do]R[dc] &\rightarrow X_2X_1R \\
X_1[dc]X_2[do]?X_3[do] &\rightarrow X_1?X_2X_3 \\
X_1[do]?X_2[do]X_3[dc] &\rightarrow X_1X_2?X_3 \\
X_1[op \geq 0]X_2[dc]X_3[do]X_4[op \leq 0] &\rightarrow X_1X_3X_2X_4 \quad [X_1.op + X_3.op - X_2.op - X_4.op \geq 6] \\
X_1[op \leq 0]X_2[do]X_3[dc]X_4[op \geq 0] &\rightarrow X_1X_3X_2X_4 \quad [X_2.op + X_4.op - X_1.op - X_3.op \geq 6] \\
X_1[do]X_2[dc]X_3[do] &\rightarrow X_1X_3X_2 \quad \text{for ever} \\
X_1[dc]X_2[do]X_3[dc] &\rightarrow X_2X_1X_3 \quad \text{for ever}
\end{aligned}$$

where R means a rod signal and op stands for *openness* (full-open = 2, neutral = 0, full-closed = -2). do is short for $op > 0$, and dc is short for $op < 0$.

All of the rules above move from right to left and do not occur across compound boundaries. The last two rules are executed alternately in a loop until the number of phonoruns is reduced to an acceptable number or both rules converge to a fixed point. This process will hereafter be called *phonorun reduction*.

In the example above, $\langle xj^h i.en \rangle$ had $4 > \lceil 5/2 \rceil$ phonoruns, so the third rule was applied. This changed the word into $\langle j^h i.en \rangle$, which has $2 \leq \lceil 5/2 \rceil$ phonoruns.

The dictionary lists forms of roots *before* the phonorun reduction happens, because affixes can radically affect which phonemes are switched.

1.4 | Vowel harmony

Middle Rymakonian inherits vowel harmony from Lek-Tsaro. Thus $\langle c \ e \rangle$ are front vowels, $\langle \text{ə} \ ɔ \rangle$ are back vowels and $\langle i \ ɜ \rangle$ are neutral. A root with neither front nor back vowels acts as if it has front vowels. Many affixes will change depending on which vowels are present.

If by some odd chance a word has both front and back vowels, then the rightmost vowel (before phonorun reduction) takes precedence.

2 | Syntax

2.1 | Basic word order

The basic word order is VSO. Descriptors follow what they modify.

However, unlike Lek-Tsaro, Middle Rymakonian has oblique arguments. As these were historically formed from a preclause, all obliques precede V. Likewise, any arguments with conjunctions also precede V.

Usually, oblique arguments are prepared by prepositions and fall before what they modify, but if an oblique argument is a conjunctive phrase or governs another oblique argument, it uses a postposition instead and precedes its antecedent.

2.2 | Questions

Binary questions have the interrogative polarity marker and no change to syntax.

In wh-questions, the wh-word is pulled to the front (i. e. before the verb). This requires case marking for the wh-word:

[TODO: example]

This applies only to questions, not interrogative-mood clauses that act as relative clauses:

[TODO: example]

2.3 | Multiple clauses

A sentence might have multiple clauses. Each clause in a sentence follows the basic VSO order, and clauses are separated with commas.

3 | Nouns

Nouns are declined for number, case and definiteness.

3.1 | Number

Countable nouns come in two numbers: *dual* and *non-dual*.

There are two different conceptualisations of the dual number. Some dialects use the dual number to refer to all cases with two objects (we say that they have the *unpaired dual*); others use it only to refer to objects in pairs (these lack the unpaired dual). In general, dialects without the unpaired dual are more prevalent in cities, as well as northern regions.

Each countable noun has an *inherent number*. A noun whose number agrees with its inherent number receives no marking; a mismatch causes the noun to receive a special affix.

3.2 | Case

In a clause with both the subject and object directly expressed in that order, both the subject and object are declined in the nominative case (and their roles are inferred through word order). In a clause where only one is present, or where both are expressed in the opposite order, the subject will receive the nominative case and the object will receive the accusative case.

3.3 | Noun classes

There are three overarching groups of noun classes.

1. Countable
 - (a) Sentient – such as humans, AIs, deities.
 - (b) Non-sentient – anything else.
2. Measurable
 - (a) Measure – all measurable nouns, especially units of measurement.
3. Uncountable
 - (a) Edible – edible (to humans).

- (b) Inedible – inedible (to humans).
- (c) Abstract – abstract ideas.

3.4 | Definiteness

The definite form of a noun is formed regularly by reduplicating the first syllable (without the coda): <DIZI> “a person” becomes <DIDIZI> “the person”.

3.5 | Declension table

Here, the inflected forms of words are shown both before and after phonorun reduction to illustrate the pattern. The declension patterns for each class is shown, both for roots ending with consonants and those ending with vowels.

Note that noun declensions for countable and measurable respect vowel harmony. For nouns with back vowels, replace the front vowels with the back vowels of the same height and rounding, and vice versa. (Noun declensions for uncountable classes do not respect vowel harmony.)

3.5.1 | Countable classes

Table 3.1: Declensions for countable nouns.

	Direct #	Inverse #
Sentient: <xDIZI> “person”		
Nominative	DIZI (DIZI)	DIZI (DIZI)
Accusative	DIZIN (DIZIN)	DIZINI (DIZINI)
Sentient: <x ^h I.en> “magician”		
Nominative	^h I.en (j ^h .ien)	^h I.el (j ^h .iel)
Accusative	^h I.e ^ɸ cn (j ^h .e ^ɸ cn)	^h I.e ^ɸ cl (j ^h .e ^ɸ cl)
(Note that the final consonant is preserved only in the direct nominative form.)		
Non-sentient: <xD3N ^ɸ ɔ> “rabbit”		
Nominative	D3N ^ɸ ɔ (D3N ^ɸ ɔ)	D3N ^ɸ ɔ.ə (D3N ^ɸ ɔ.ə)
Accusative	D3N ^ɸ ɔD (D3N ^ɸ ɔD)	D3N ^ɸ ɔaə (D3N ^ɸ ɔaə)
Non-sentient: <x.cDen> “house”		
Nominative	.cDen (.cDen)	.cDe.c (.cDec.)
Accusative	.cDe ^ɸ CD (.cDe ^ɸ CD)	.cDe ^ɸ CaC (.cDe ^ɸ CaC)

3.5.2 | Measurable and uncountable classes

Table 3.2: Declensions for measurable and uncountable nouns.

	Direct
Measure: <x ^ɸ 3D3> “day (continuous)”	
Nominative	^ɸ 3D3 (j ^ɸ 3D3)
Accusative	^ɸ 3D3N (j ^ɸ 3D3N)
Measure: <xDeI> “volume” (in expressions such as <xDeI-ɸ3ɔ> “cupful”)	
Nominative	DeI (DeI)

	Direct
Accusative	de μ cn (deμcn)
Edible: <xfeμ.c> “beef”	
Nominative	feμ.c (feμc.)
Accusative	feμ. cn (feμcn.)
Edible: <xɔɪn> “rice”	
Nominative	ɔɪn (ɔɪn)
Accusative	ɔɪn cn (ɔɪncn)
Inedible: <xμəɔ> “gold”	
Nominative	μəɔ (μəɔ)
Accusative	μəɔ be (μəɔbe)
Inedible: <xɪɪɪ> “stone”	
Nominative	ɪɪɪ (ɪɪɪ)
Accusative	ɪɪɪ de (ɪɪɪde)
Abstract: <xɑ ^h əɔ> “empathy”	
Nominative	ɑ ^h əɔ (ɑ ^h əɔ)
Accusative	ɑ ^h əɔ cn^φ (ɑ ^h əɔcn ^φ)
Abstract: <xφɔɔ> “[the number] five”	
Nominative	φɔɔ (φɔɔ)
Accusative	φɔɔ cn^φ (φɔɔcn ^φ)

3.6 | Pronouns

Personal pronouns are not divided into first, second and third persons as in most languages. Instead, they fall into four categories which exhibit different behaviour depending on whether they occur as the first non-oblique noun in the clause or elsewhere (second noun, verb inflection, oblique):

Table 3.3: Pronoun persons and their functions.

Person	Role in first position	Role elsewhere
Near	The speaker.	The first argument of the sentence.
Far	The listener.	The person with which the first argument is conversing.
Other	A third entity.	An entity that is neither the speaker, the listener nor the first argument.
Generic	A generic entity (akin to “one”).	
Anaphoric Subject	The subject of the previous clause. Also used on the verb when an oblique or conjunction is present.	
Anaphoric Object	The object of the previous clause.	

In wh-questions, the wh-word assumes the second position and the other argument becomes the first.

If a clause has no explicit arguments, the first argument is understood to be the subject.

Table 3.4: Personal pronouns (before phonorun reduction).

	Nominative		Accusative	
	Non-dual	Dual	Non-dual	Dual
Near	fi	aczc	fin	aczen
Far	dɔ	bɥi	dɔn	bɥin
Other	nc	lizc	ncn	lizen
Anaph. Sub.	ɥi	n ^h cɥc	ɥin	n ^h cɥen
Anaph. Obj.	ɥɔ	n ^h əɥɔ	ɥɔn	n ^h əɥɔn
Generic	.ə		.ən	

3.6.1 | Last-clause pronouns

The anaphoric pronoun <bej> (accusative: <bezen>) is grammatically an other pronoun, and it refers to the previous clause said. Likewise, <bdecj> (accusative: <bdecn>) refers to the clause before the previous one.

3.7 | Compounding

Nouns can be compounded together in a head-initial manner. When that happens, only the leftmost noun is the one to be declined.

del-ɥɔɔ-ɔ^hɥə-ɥcɥ
 volume-cup-water-five
 five cupfuls of water

Note that pronouns can modify other nouns, in which personal possession is indicated:

del-ɥɔɔ-ɔ^hɥə-ɥcɥ-fi
 volume-cup-water-five-PR.NEAR.NONDUAL
 (arg1)'s five cupfuls of water

Descriptors can also compound on nouns. Unlike in Lek-Tsaro, this is the only way to have descriptors modify nouns.

dɔɔɔ-ɔ^hɥi
 dɔɔɔ-ɔ^hɥi
 person-old
 old people

3.8 | Possession

“X’s Y” is translated as <Y=Dɪ X> (plus phonorun reduction). The possessive construction is also used to create appositives. (Note the head-marking!)

Observe that possession marks the head, and <-Dɪ> is a clitic, not an affix, as in the following example:

dɔɔɔɔɔɔ-ɔ^hɥə-Dɪ j^h.ien
 dɔɔɔɔɔɔ-ɔ^hɥə-Dɪ j^hi.en

DEF~rabbit-water=GEN magician
the magician's water rabbit

Romanisation

In this text, the romanisation is used only to transcribe names into English. Whenever possible, the hacmisation should be used.

Table 5: The consonants of Middle Rymakonian.

	Bilabial	Dental	Alveolar	Palatal	Velar	Glottal
Nasal	m		n	ɲ	ŋ	
Plosive	p b		t d	tʃ dʃ	k g	ʔ
Fricative	f v	θ ð	s z	ʃ ʒ	h ɦ	
(coarticulated)	fh vɦ	ph ðɦ		fʃ vʒ		
(whistled)			ʂ ʐ			
Affricate			ts	tʃ		
Lateral fricative			ʂ ʐ			
Approximant			r	j	w	
Lateral approximant			l			
Tap			ɾ			

Table 6: The vowels of Middle Rymakonian.

	Front	Central	Back
High	i	y	u
Mid	e		o
Low		a	

The digraphs <fh vɦ ph ðɦ fʃ vʒ ts tʃ> correspond to coarticulated consonants and affricates. An apostrophe can be placed between the two letters if this is not desired.

Rod signs are represented by the Arabic digits <1 2 3 4 5 6 7 8> attached to the end of the verbs they encompass. Proper words are preceded by a backslash <\>.

<ɲ> should be capitalised as <Ŋ> only if one can depend on the majuscule glyph appearing like an N with a hook. Otherwise, it should be spelled <Ng>.

A | Dictionary

| .

.cɒn *nnon*sent house

| ʃ

ʃɛp.c *nedib* beef

| ʃ

ʃɪlɪj *nined* stone

| ʃ^h

ʃ^hi.en *nsent* magician

| ɑ^l

ɑ^lɜpə *nedib* potable water

| ɑ^h

ɑ^həɔɔ *nabst* empathy

| ɒ

ɒɜn^ɸɔ *nnon*sent rabbit

ɒɪn *nedib* rice

ɒɪzɪ *nsent* person

ɒel *nmeas* volume

| ɸ

ɸɜɔɔ *nnon*sent cup

ɸɜɔɜ *nmeas* day (continuous)

ɸəɔɔ *nined* gold