

uruwi

ପ୍ରିନ୍ ହିନ୍ଦି ଓଡ଼ି ମିନ୍ଦି α^h o e .on $^\phi$ -pebc-delbe o (le)c e

Dedicated to Gufferdk.

Branch: canon Version: 0.1

Date: 2017-12-22 (29 dia len)

(C)opyright 2017 Uruwi. See README.md for details.

Contents

	0.1	Introduction	4
1	Phon	nology and orthography	5
	1.1	Phoneme inventory	5
	1.2	Hacmisation	6
	1.3	Phonotactics	6
		1.3.1 Prosody	9
	1.4	Vowel harmony	9
	1.5	Rod signal sandhi	9
2	Synta	ax	11
	2.1	Basic word order	11
	2.2	Questions	11
	2.3	Multiple clauses	11
3	Nour	15	13
	3.1	Number	13
	3.2	Case	13
	3.3	Noun classes	13
	3.4	Definiteness	14
	3.5	Declension table	14
		3.5.1 Countable classes	14
		3.5.2 Measurable and uncountable classes	14
	3.6	Pronouns	15
		3.6.1 Last-clause pronouns	16
	3.7	Compounding	16
	3.8	Possession	16
4	Verb	S	19
	4.1	Aspect	21
			22
	4.2		22
			23
			23
	4.3	•	24
	4.4		25
	4.5	*	26

4	CONTENT.
	CONTENT

	4.6 4.7	Transitivisation	26 27
5	Desc	riptors	29
6	Tree 6.1 6.2 6.3 6.4 6.5	Branch-switching	31 31 31 31 31
7	Num 7.1 7.2 7.3 7.4	Irregular numerals	33 34 34 34
8	Deriv 8.1 8.2 8.3 8.4	Dematuration	35 35 35 35 36
9	Name 9.1 9.2 9.3	Nominal names	37 37 38 39 39
A	List	of glossing abbreviations	43
В	Dicti	onary	45

0.1 | Introduction

1 | Phonology and orthography

1.1 | Phoneme inventory

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

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	n	ŋ	
Plosive	рb		t d	СĴ	k g	?
Fricative	fv	θð	S Z	∫3	хγ	
(coärticulated)	fx vy	θx ðγ		f∫ vʒ		
(whistled)			ŞŢ			
Affricate			ts	t∫		
Lateral fricative			łЬ			
Approximant			J	j	W	
Lateral approximant			1			
Тар			ſ			

Table 1.2: The vowels of Middle Rymakonian.

	Front	Central	Back
High Mid	i	ų	ш
Mid	ε		Λ
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. Rod signals can occur only at the end of words.

- 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.
- 9. Rod A is raised besides one's head, while Rod B is extended toward the side of the dominant hand. This rod signal does not exist alone, but rather as a transition to the seventh or eighth rod signal.

In addition, the fourth rod signal has a "halfway" form where Rod A is retracted away from the nondominant arm.

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.

Rod signs are represented by the hacm digits $\langle 1 \ 1 \ 7 \ N \ 1 \ 9 \ \Delta \rangle$ attached to the end of the verbs they encompass. Halfway rod signals are represented by a subscript digit: $\langle n \rangle$. Transitions from the ninth rod signal are written $\langle L^9 \ L^\Delta \rangle$. Proper words are preceded by a backslash $\langle V \rangle$.

Note that the hacmisation is slightly different from Lek-Tsaro's use of hacm. Lek-Tsaro's $\langle h \rangle$ are now written using $\langle l^l \rangle$, for instance.

1.3 | Phonotactics

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

These are converted into actual categories as follows:

1.3. PHONOTACTICS 7

	Bilabial	Dental	Alveolar	Palatal	Velar	Glottal
Nasal	D		n	n ^ų	n ^φ	
Plosive	d b		Ω	ſ Ч ΩЧ	ρί	
Fricative	a u	J^{α} Z^{u}	JΖ	ls	J ^l φ ^s	
(coärticulated)	a ^h u ^h	J ^h Z ^h		a ^l us		
(whistled)			J° Z°			
Affricate			ρ	l _r		
Lateral fricative			l _l s _l			
Approximant			h	Ч	0	
Lateral approximant						
Тар			Н			

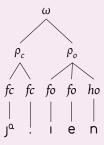
Table 1.3: The consonants of Middle Rymakonian.

Table 1.4: The vowels of Middle Rymakonian.

	Front	Central	Back
High Mid	С	3	ə
Mid	е		Э
Low		I	

- 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 $\langle j^{\alpha}.len \langle x_{j}^{h}l.en \rangle$:



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:

Category	Phonemes
	ıecɔəuz ^u zz ^o sφ ^s s ^l yοlγ
Half-open	3 h l o u u _d u _b d r _d
Neutral	ا ا الله zh us 1 ا
Half-closed	αllhΔLΔ
Full-closed	ι ^α α ^h ι ^h α ^l d b l α l ^q α ^q) ω l ^q l ^q .

Table 1.5: Categories of phonemes.

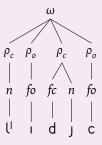
$$\begin{array}{c} X_{1}[do]X_{2}[dc]R[do] \rightarrow X_{2}X_{1}R \\ X_{1}[dc]X_{2}[do]R[dc] \rightarrow X_{2}X_{1}R \\ X_{1}[dc]X_{2}[do]X_{3}[do] \rightarrow X_{1}?X_{2}X_{3} \\ X_{1}[do]?X_{2}[do]X_{3}[dc] \rightarrow X_{1}X_{2}?X_{3} \\ X_{1}[op \geq 0]X_{2}[dc]X_{3}[do]X_{4}[op \leq 0] \rightarrow X_{1}X_{3}X_{2}X_{4} \quad [X_{1}.op + X_{3}.op - X_{2}.op - X_{4}.op \geq 6] \\ X_{1}[op \leq 0]X_{2}[do]X_{3}[dc]X_{4}[op \geq 0] \rightarrow X_{1}X_{3}X_{2}X_{4} \quad [X_{2}.op + X_{4}.op - X_{1}.op - X_{3}.op \geq 6] \\ X_{1}[do]X_{2}[dc]X_{3}[do] \rightarrow X_{1}X_{3}X_{2} \quad \qquad \text{for ever} \\ X_{1}[dc]X_{2}[do]X_{3}[dc] \rightarrow X_{2}X_{1}X_{3} \quad \qquad \qquad \text{for ever} \end{array}$$

where R means a rod signal, X represents a spoken phoneme 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. (The same rule can occur multiple times within a word, although such invocations may not intersect each other.)

All of the rules above move from right to left and do not occur across compound boundaries. The last two rules are executed in parallel 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, $\langle xj^{\alpha}i.en \rangle$ had $4 > \lceil 5/2 \rceil$ phonoruns, so the third rule was applied. This changed the word into $\langle j^{\alpha}.ien \rangle$, which has $2 \leq \lceil 5/2 \rceil$ phonoruns.

An example where phonorun reduction does not result in a word with few enough phonoruns is <\lideligitarrow\text{Idjc}\) soup, which has the starting phonoruns



Obviously, the first four rules do not match anywhere in the word. The sixth rule seems promising because it matches the pattern at $\langle l^l I d J - \rangle$, but the required sum is 0+2+2+0<6, so this rule does not match. In addition, the last two rules do not match, and we encounter a fixed point. In such cases, the anomaly is allowed to pass.

1.4. VOWEL HARMONY 9

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

1.3.1 Prosody

The time taken to utter a phonorun is given by the model:

$$t_o = K \cdot (1 + v \cdot \alpha + c \cdot \beta)$$
 (phonorun is open) (1.1)

$$t_c = K \cdot \eta \cdot (y + v \cdot \alpha + c \cdot \beta)$$
 (phonorun is closed) (1.2)

where *K* is a constant varying from person to person, *v* is the number of vowels and *c* is the number of consonants in the run. α , β , γ and η are also constants such that $\beta < \alpha$, and both γ and η are less than 1. In other words:

- There is a fixed cost for starting a new phonorun. This cost is less for closed phonoruns than open.
- Closed phonoruns are faster to say than open runs with the same number of consonants and vowels.
- Closed phonoruns are also more length-dependent than open runs.
- It takes less time to utter consonants than vowels.

An estimate of the constants for the standard dialect would be $\alpha=0.37, \beta=0.46, \gamma=0.82$ and $\eta=0.61$.

1.4 | Vowel harmony

Middle Rymakonian inherits vowel harmony from Lek-Tsaro. Thus $\langle C \rangle$ are front vowels, $\langle \partial \rangle$ are back vowels and $\langle I \rangle$ are neutral. Most roots with neither front nor back vowels act as if they had front vowels, though some might behave as if they had back 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.

1.5 | Rod signal sandhi

The following rules influence rod signals depending on the previous rod signal (of the current or previous word):

- $\langle \mathbb{N} \rangle$ is realised as $\langle \mathbb{J} \rangle$ after $\langle \mathbb{N} \rangle$ or $\langle \mathbb{N} \rangle$.
- $\langle 9 \rangle$ is realised as $\langle L^9 \rangle$ after $\langle 9 \rangle$ or $\langle L^9 \rangle$.
- $\langle \Delta \rangle$ is realised as $\langle L^{\Delta} \rangle$ after $\langle \Delta \rangle$ or $\langle L^{\Delta} \rangle$.

Rod sandhi does not affect the orthography or phonorun reduction.

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. Such arguments that were formed from a clause will be called *historically clausal arguments* (HCAs).

Usually, oblique arguments are prepared by prepositions and fall after what they modify (unless the antecedent is V), but if an oblique argument is a conjunctional phrase or governs an HCA, it uses a postposition instead and precedes its antecedent.

2.2 Questions

In all questions, the intonation of the second word of the last clause is lowered considerably.

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:

```
(lezcn peas)(l) do8
who-acc speak-far.past-Q pr.far
Whom did you speak to?
```

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

```
peasjll do fel, yif yo. speak-far.past pr.anaph_obj I saw the person whom you talked to.
```

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.

12 CHAPTER 2. SYNTAX

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).

14 CHAPTER 3. NOUNS

- (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 \rangle "a person" becomes \(DIDIZI \rangle "the person". \)

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 classes 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 measurable and uncountable classes do not respect vowel harmony.)

3.5.1 | Countable classes

Table 3.1: Declensions for countable nouns.

	Direct #	Inverse #	
Sentient: 💢	וצו> "person"		
Nominative	DIZI (DIZI)	DIZI (DIZI)	
Accusative	DIZIN (DIZIN)	DIZINI (DIZINI)	
Sentient: <×j	۵،en> "magician"		
	j ^a ı.en (j ^a .ien)	j ^α ı.el (j ^α .ıel)	
Accusative	j ^a ı.ezcn (j ^a ı.ezcn)	յ ^a ı.eµcl (յ ^a ı.eµcl)	
(Note that the	e final consonant is preserved only	in the direct nominative form.)	
Non-sentient	: <xɒɜn<sup>φɔ> "rabbit"</xɒɜn<sup>		
Nominative	Coura (causa)	(G.C ^P NEC) (G.C ^P NEC	
Accusative	(DSU _b USQ) (OSU _b USQ	(Guc ^a nea) euc ^a nea	
Non-sentient: <x.coen> "house"</x.coen>			
Nominative	.coen (.coen)	.cde.c (.cdec.)	
Accusative	.cdezcd (.cdezcd)	.cpehcnc (.cpehcnc)	

3.5.2 | Measurable and uncountable classes

Table 3.2: Declensions for measurable and uncountable nouns.

	Direct				
Measure: <×	Measure: <xµ3d3> "day (continuous)"</xµ3d3>				
	Nominative µ3D3 (µ3D3)				
Accusative	hadau (hadau)				
Measure: <×	Measure: <xdel> "volume" (in expressions such as <xdel-43)> "cupful")</xdel-43)></xdel>				
Nominative	Nominative Del (Del)				

3.6. PRONOUNS 15

	Direct		
Accusative	Dezcn (Dezcn)		
Edible: <xlep< td=""><td></td></xlep<>			
	lehrc (lehcr)		
Accusative	leh.cu (lehc.u)		
Edible: <xdi< td=""><td>n> "rice"</td></xdi<>	n> "rice"		
	DIN (DIN)		
	DINCN (DINCN)		
Inedible: <x< td=""><td></td></x<>			
Nominative	hələ (həəl)		
	helope (helpe)		
Inedible: <x< td=""><td>•</td></x<>	•		
Nominative	آباباً (رابانًا)		
Accusative	Jırılige (Jırılige)		
	ռ ^h ədɔ⟩ "empathy"		
	a^h ədə (a^h ədə)		
Accusative	α ^h əpon ^φ (α ^h əpon ^φ)		
Abstract: ⟨xφcj⟩ "[the number] five"			
Nominative	φει (φει)		
Accusative	Accusative $\phi czcn^{\phi}$ ($\phi czcn^{\phi}$)		
Here, the fina	al consonant is voiced if it is a fricative.		

(NB: be sure to change any $\langle 1 \rangle$ and $\langle 1 \rangle$ into $\langle 1^4 \rangle$ and $\langle 1^5 \rangle$ respectively before $\langle 2 \rangle$.)

3.6 | Pronouns

Personal pronouns are not divided into first, second and third persons as in most languages. Instead, they fall into six categories that 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 non-oblique argu-	
		ment of the clause.	
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		
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.

16 CHAPTER 3. NOUNS

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

	Nominative		Accusative	
	Non-dual	Dual	Non-dual	Dual
Near	ſı	aczc	lin	aczen
Far	do	bþі	don	bµın
Other	nc	Jizc	ncn	lizen
Anaph. Sub.	μı	n ⁴ cµc	μın	n ⁴ cµen
Anaph. Obj.	upo Cu	n ⁴ əµɔ	uch hou	ncye ^µ n
Generic	ے		اد	n

Table 3.4: Personal pronouns (before phonorun reduction).

3.6.1 | Last-clause pronouns

The anaphoric pronoun <code>(ebj)</code> (accusative: <code>(bezen)</code>) is grammatically an other pronoun, and it refers to the previous clause said. Likewise, <code>(bdecj)</code> (accusative: <code>(bdecn)</code>) refers to the clause before the previous one. All of these pronouns should undergo phonorun reduction inside a compound.

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-μ3j3-α<sup>l</sup>3μθ-φcj
volume-cup-water-five
five cupfuls of water
```

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

```
Del-μ3j3-α<sup>l</sup>3μθ-φcj-ſι
volume-cup-water-five-PR.NEAR.ND
(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.

DIZI–ÌfƏI DIZI–ÌƏİI person-old old people

3.8 | Possession

"X's Y" is translated as $\langle Y=DI | X \rangle$ (plus phonorun reduction). The possessive construction is also used to create appositives. (Note the head-marking!)

3.8. POSSESSION 17

Observe that possession marks the head, and $\langle -DI \rangle$ is a clitic, not an affix, as in the following example:

```
D3D3N^{\phi}3-\alpha^{l}3\mu9-DI J^{h}.ien D3D3N^{\phi}3-\alpha^{l}3\mu9-DI J^{h}i.en DEF~rabbit-water=GEN magician the magician's water rabbit
```

This construction is also used when compounding would otherwise be used, but the dependent is larger than a single noun or descriptor:

```
nyizidi i.lle an fij
cat=gen 4096 and two
4098 cats
```

18 CHAPTER 3. NOUNS

4 Verbs

Verbs are conjugated for person of the subject, tense, polarity and tellicity, in two paradigms. Conjugation respects vowel harmony. In addition, a final $\langle -J \rangle$ or $\langle -Z \rangle$ in the stem of a first- or second-conjugation verb becomes whistled in the generic form. The dictionary lists the stem of the verb and the conjugation scheme used.

Table 4.1: Person-tense conjugations for first-conjugation verbs, using $\langle Dil - \rangle$ "(S) eats (O)", before and after phonorun reduction.

	Nonpast	Past
Near	DIJIU (DIJIU)	סוןון (סווןן)
Far	DIJIU (DIJIU)	DIJ3] (DIJ3J)
Other	DIJI (DIIJ)	DIJ3 (DIJ3)
Anaph. Sub.	DIJe (DIEJ)	Dilel (Dilel)
Anaph. Obj.	DIÌC.e (DIÌ.ce)	Dilc.el (Dil.cel)
Generic	DIJC (DICJ)	DIJC (DICJ)

Table 4.2: Person-tense conjugations for second-conjugation verbs, using $\langle n \ni n - \rangle$ "(S) kills (O), (O) dies", before and after phonorun reduction.

	Nonpast	Past
Near	nənın (nənın)	nənıf (nənıf)
Far	nənın (nənın)	nən3j (nən3j)
Other	nənı (nənı)	nən3 (nən3)
Anaph. Sub.	nənə (nənə)	nənel (nənəl)
Anaph. Obj.	nənə.ɔ (nənə.ɔ)	nənə.əl (nənə.əl)
Generic	nənə (nənə)	nənə (nənə)

Notes:

- The polarity-tellicity suffix is added after the person-tense ending.
- "Negative atelic" means something akin to "unsuccessfully tried to avoid doing X".
- The interrogative polarity, in addition to marking questions, is used to mark clauses that may or may not be true but are referred to later in the sentence.
- As an exception, the generic form of $\langle y-\rangle$ is $\langle y-\rangle$.

20 CHAPTER 4. VERBS

Table 4.3: Person-tense conjugations for third-conjugation verbs, using \u2214\u221eu-\u2214"(S) spreads (O)", before and after phonorun reduction.

	Nonpast	Past
Near	peucn (peucn)	hencl (hencl)
Far	peuin (peuin)	peusj (peusj)
Other	peui (peui)	hena (hena)
Anaph. Sub.	peue (peue)	peuel (peuel)
Anaph. Obj.	peuc.e (peuc.e)	peuc.el (peuc.el)
Generic	hens (hens)	hen3 (hen3)

Table 4.4: Polarity-tellicity suffixes for verbs (before phonorun reduction). The interrogative affix can also follow a negative affix.

	Positive	Negative	Interrogative
Telic	_·	_l ⁴ e / _lo	_J₁
Atelic	-DC / -DƏ	_ji	_l3

Some examples:

```
Dilin l'ide l'ozo.
eat-NEAR.NONPAST fish flower
Fish eat flowers.
nlin land (czc hall nila
eat-NEAR.NONPAST fish flower, eat-NEAR.NONPAST cat PR.ANAPH_SUB
Fish eat flowers, and cats eat fish.
nilin Uhe (csc) ahilu pillia.
ollin l'ide (csc) plilue.
eat-NEAR.NONPAST fish flower, eat-ANAPH_SUB.NONPAST grass-ACC
Fish eat flowers, and they eat grass.
(Grass is inedible to humans, but edible to fish.)
eyl) cych Panilia
ell cuch appulle
eat-NEAR.NONPAST-NEG flower fish
Flowers don't eat fish.
dμcn nc llμcllμcΩen, jenin (i ebj.
dμcn nc llμcllμcΩen, jenin (i ebj.
carry-near.nonpast pr.other def~book, worry-near.nonpast pr.near
PR.LAST CLAUSE
He has the book; that worries me.
or: That he has the book worries me.
dμcni)<sup>l</sup> nc )<sup>l</sup>μc)<sup>l</sup>μcΩen, jenin (i ebj.
dμcn)<sup>l</sup>ı nc )<sup>l</sup>μc)<sup>l</sup>μcΩen, jenın (ı ebj.
carry-near.nonpast-q pr.other def~book, worry-near.nonpast pr.near.int
```

4.1. ASPECT 21

PR.LAST_CLAUSE

He might have the book; that worries me. or: That he might have the book worries me.

4.1 | Aspect

Verbs can also be marked for aspect, either using a rod sign directly on the verb, or a particle with a rod sign, placed anywhere between the verb it modifies and the next verb.

Table 4.5: Aspect markers. Those with hyphens are attached to verb. Those without hyphens are placed as separate particles anywhere after the verb.

Aspect name	Marking	Meaning
Imperfect	–1	An action that is currently going on. Also used to distinguish static actions as opposed to dynamic (e. g. wear as opposed to put on).
Interrupted	ſ ^t cl1	An action that was interrupted.
Perfect	- J	An action that has already finished. Changes present tense to immediate past. Also used to distinguish dynamic actions as opposed to static (e. g. put on as opposed to wear).
Gnomic	-}	A general truth or aphorism, or an action done habitually.
Gnomic dubitative	(cl)	A general truth or aphorism that the speaker considers to be false.
Deontic necessity	– 0	An action that the speaker insists on happening.
Deontic recommendation	- 0	An action that the speaker recommends that happens.
Epistemic necessity	Naef	An action that the speaker infers is happening. (Situational necessitative and potential moods are grouped with their epistemic versions.)
Deontic potential	4_	An action that the speaker permits to occur.
Epistemic potential	4aeſ	An action that the speaker infers that might happen.
Unexpected	- s	An action that is unexpected (akin to using "but").
Comparative	deſ	Indicates an action of greater intensity than what was described in the previous clause.
Nonexclusive subject	⁽⁴ с1	Indicates that the subject comprises not only of what is explicitly mentioned, but also other things.

22 CHAPTER 4. VERBS

Aspect name	Marking	Meaning
Nonexclusive object	с[Ч?	Indicates that the object comprises not
		only of what is explicitly mentioned, but
		also other things.
Nonexclusive argument	cľЧЛ	Combination of both nonexclusive subject
		and nonexclusive object.
Temporal universal	L ^q	The statement is always true ("never
		true" when negative).
Temporal non-universal	J ^o L ^q	The statement is not always true ("some-
-		times true" when negative).
Spatial universal	–L [∆]	The statement is true (false) everywhere.
Spatial non-universal	J°L∆	The statement is false (true) somewhere.

An attached rod signal reverts $\langle J^{\alpha} \ Z^{u} \rangle$ to $\langle J^{h} \ Z^{h} \rangle$, respectively, and might affect phonorun reduction.

An example:

```
I tried to fight them, but they shot my knee.
```

4.1.1 | Simultaneous temporal and spatial aspects

A verb may be modified by both temporal and spatial aspects, in which case their mutual order is significant:

Table 4.6: Behaviour when both temporal and spatial markers exist, where t is a time variable and \vec{x} is a space variable.

Marking	Definition	Equivalent
_L ^Δ 9	$\forall t \forall \vec{x} : P(t, \vec{x})$	$\forall t \forall \vec{x} : P(t, \vec{x})$
−L [∆] J°L ⁹	$\neg \forall t \forall \vec{x} : P(t, \vec{x})$	$\exists t \exists \vec{x} : \neg P(t, \vec{x})$
J∘L∆q	$\forall t \neg \forall \vec{x} : P(t, \vec{x})$	$\forall t \exists \vec{x} : \neg P(t, \vec{x})$
j°L∆ j°L9	$\neg \forall t \neg \forall \vec{x} : P(t, \vec{x})$	$\exists t \forall \vec{x} : P(t, \vec{x})$
–L ^q Δ	$\forall \vec{x} \forall t : P(t, \vec{x})$	$\forall \vec{x} \forall t : P(t, \vec{x})$
–L ^q J°L∆	$\neg \forall \vec{x} \forall t : P(t, \vec{x})$	$\exists \vec{x} \exists t : \neg P(t, \vec{x})$
J ^o L ⁹ ∆	$\forall \vec{x} \neg \forall t : P(t, \vec{x})$	$\forall \vec{x} \exists t : \neg P(t, \vec{x})$
JoLa JoTQ	$\neg \forall \vec{x} \neg \forall t : P(t, \vec{x})$	$\exists \vec{x} \forall t : P(t, \vec{x})$

4.2 | Historically clausal arguments

Historically clausal arguments (HCAs) are arguments of a sentence that are derived from clausal constructions. They include obliques and conjunctions. HCAs precede V.

An HCA that modifies a verb causes it to be conjugated in the anaphoric subject person.

4.2.1 | Obliques

An oblique expresses a relation between the verb of a sentence or some argument thereof.

An oblique phrase that modifies a verb falls before it. An oblique phrase that modifies either S or O pulls it before the verb as well.

If the argument of the oblique phrase is not an HCA, then it uses a preposition and follows its antecedent (unless it is the main verb). If the argument is an HCA, then the phrase uses a postposition and precedes its antecedent.

Consider the preposition $\langle ln \rangle$ in, on, at (location) (from Lek-Tsaro $\langle lln \rangle$ (S) is at (O)). The sentence Ryze is hiding from me in the tree would be translated as:

```
In fouoi nepael (in \p3ze in tree hide-anaph_sub.nonpast-imperfect pr.near.acc Ryze
```

Now say that we want to translate *Ryze is hiding from me in the tree with fruit. With* would be translated as $\langle d\mu \rangle$ (from Lek-Tsaro $\langle d\mu cn \rangle$ hold, carry, which also begets $\langle \mu n \rangle$), but now we have nested obliques, which means we need to use $\langle ln \rangle$ as a postposition:

```
fouch properties of the four post hide-anaph_sub.nonpast-imperfect pr.near.acc Ryze
```

Deriving a postposition from a preposition is done *after* phonorun reduction. Prepositions that end with a closed phonorun receive $\langle - | \rangle$, and those that end with an open phonorun receive $\langle -z \rangle$.

The prefix $\langle I^{4} - \rangle$ negates an adposition.

4.2.2 | Conjunctions

Conjunctions are derived from verbs as well; for instance, <an> and is derived from Lek-Tsaro <acn> join. However, in Middle Rymakonian, conjunctions are infixed:

```
\u00fcase an \landsizs bie leuc..
\u00e4usze an \landsizs bie leuc.
Ryze and Tazyl eat-ANAPH_SUB.NONPAST beef
```

(Note that as long as S still precedes O, no case marking is needed.)

Unlike Lek-Tsaro's approach, this approach works well with more complex sentences:

```
\u00fcan \land \land \u00e4rean \
```

An entire conjunctional phrase can be modified by treating the conjunction as a nominal antecedent:

```
c<sup>o</sup>nea ilel-na izipu
```

24 CHAPTER 4. VERBS

cat and-old rabbit old cats and rabbits

4.3 | Connectors

(This section will refer to section 2.11 of \ubblub $D \Omega \Omega /(\Omega' \ln^{\phi} \ln \text{ extensively.})$

Middle Rymakonian uses connectors to express relationships between clauses. In Middle Rymakonian, connectors do not occupy an indexed position in the clause; however, they tend to be placed near items that should receive less emphasis than others. Two connectors cannot occur consecutively unless the number of connectors is more than one plus the number of other words.

A connector is composed of three parts:

- The *type* (see table 4.7) specifies the semantic role of the connector.
- The *sequence identifier* (hereafter *seqid*) disambiguates the use of multiple connectors of the same type within a sentence. This is an arbitrary continuation of the last phonorun of the type.
- The *parity* allows the reuse of seqids within a type. This is ⟨¬ſ⟩ or ⟨¬Ӏ⟩ if the type ends with a closed phonorun, and ⟨¬ι⟩ or ⟨¬z⟩ if it ends with an open phonorun.

Unlike most parts of speech, a complete connector, composed of the three parts above, does not undergo phonorun reduction.

Connectors x and y are part of the same set S iff all of the following conditions hold:

- x and y are identical (i. e. all three parts are the same between x and y)
- they belong to clauses α and β , respectively (NB: it is possible that $\alpha = \beta$)
- there are no clauses between α and β that has a connector with the same type and seqid but a different parity from x or y

Note that "belonging to the same connector set" is an equivalence relation.

Table 4.7: Connector types.

Name	Arity	Middle Rymakonian	Explanation
Ordinary	n	IJ-	Covers both the sequential and
			parallel connectors of Jbl.
Analogous	2	ıd–	"For the same reason α is true, β is
			also true." Also used as an "and"
			without stating any order.
Subversive	2	ΙΩ-	" α but β ."
Augmentative	n	Ͻ φ ^S −	Later statements apply to a
· ·		•	greater extent than earlier
			statements.
Explanatory	n	CD-	" θ_1 causes θ_2 causes θ_3 etc."
Conditional	2	CJ-	"If α , then β ."

4.4. COMPARATIVES 25

Clauses of a connector set are joined by the relation of the connector used therein:

```
DINIT L'INE ('DZD IJEI.

DINIT L'INE ('DZD IJEI.

eat-NEAR.PAST fish flower ORDINARY-(e)-0

The fish ate the flower.

IJEI NCDC[ [Mezc [DuD].

ORDINARY-(e)-0 dance-NEAR.PAST child tree

Then the child danced around the tree.

IJEI DINE L'IL'INED.

eat-ANAPH_SUB.PAST ORDINARY-(e)-0 DEF~fish-ACC

Then the child ate the fish.

DEICIT $\puppan^p$ IJEZ $\ddots$.

DEICT $\puppan^p$ IJEZ $\ddots$.

imitate-NEAR.PAST-IMP frog ORDINARY-(e)-1 PR.FAR

At another time, a frog was imitating me. (...)
```

4.4 | Comparatives

```
The comparative is a function cmp : A \times A \times (A \to \mathbb{R}) \times (A \times A \to \{0,1\}) \to \{0,1\}, where cmp(a,b,f,\Box) = f(a) \supset f(b). Consider the following sentences:
```

Fish eat flowers more than cats. More fish eat flowers than cats.

More fish eat flowers than cats.

Semantically, they can be translated to:

cmp(fish, cats,
$$a \mapsto (\# \text{ of flowers eaten by } a), >)$$
 (4.1)
cmp(fish, cats, $a \mapsto (\# \text{ of } a \text{ that eat flowers}), >) (4.2)$

The heart of comparatives in Middle Rymakonian is the quadrivalent verb $\langle \Omega \rangle$ a b f $\Rightarrow \rangle$. Thus:

```
DIICI<sup>l</sup> (<sup>l</sup>OZOD-J<sup>α</sup>CN, ΩOZIN l<sup>l</sup>Irde nyizi μο nef. eat-GENERIC-Q flower-ACC-how_many, CMP-NEAR fish cat PR.ANAPH_OBJ > Fish eat more flowers than cats.

DIICI<sup>l</sup> .= J<sup>α</sup>CN (<sup>l</sup>OZO, ΩOZIN l<sup>l</sup>Irde nyizi μι nef.
```

Note that we place a clause whose argument is the generic pronoun before the comparative clause. From the dozan-clause, we refer to the function using the anaphoric pronoun referring to the position of the return value.

eat-GENERIC-Q PR.GENERIC-how_many flower, CMP-NEAR fish cat PR.ANAPH_SUB >

26 CHAPTER 4. VERBS

Table 4.8: Comparators in Middle Rymakonian.

\Box	Comparator
>	neſ
<	മാി
=	ſen ^φ
\geq	Mil
\leq	DCJ
\neq	.3j
\approx	μej
\gg	a ^h e
«	ΩΙΝ

4.5 Ditransitive-like constructions

In English, some verbs such as *give* take two objects: the item being given and the recipient of the item. Because of Middle Rymakonian's heritage, this is translated into a compound statement:

4.6 | Transitivisation

l^lcdcl apeapen⁴e. fall-near,past def~coin

Verbs that are used intransitively (i. e. have no object passed at this time) can be turned into a causative form with the prefix $\langle \phi c - \rangle$:

```
The coins fell.

If copt ch3 apeapen4e.

If oct ch3 apeapen4e.

PR.NEAR TRANS-fall-OTHER.PAST DEF~coin I dropped the coins.
```

Due to historical sound changes:

- An initial fricative or lateral fricative followed by a vowel is voiced.
- An initial $\langle p \rangle$ followed by a vowel turns into $\langle z \rangle$.
- A word that started with $\langle n^{\phi} \rangle$ in Lek-Tsaro but $\langle n^{q} \rangle$ in Middle Rymakonian has the initial consonant revert to $\langle n^{\phi} \rangle$.

Note that the word order changes to SVO. (In this case, HCAs fall before S.) In addition, the verb is conjugated for its object, rather than the subject as expected. If

4.7. THE COPULA 27

the following clause uses an anaphoric subject, it refers to the object of the current clause.

Moreover, the verb does not need to be one that can never take an object. In the above example, (cricn) means "(S) falls on (O)". However, if the verb in question is taking an object, it cannot be transitivised directly and a more roundabout way is required:

fall-NEAR.PAST DEF~coin grass
The coins fell on the grass.

[I copt cha apeapen en the coins fell on the grass.]

fi φcfcris αρεαμείτε, icriei pilibe.

fi φcfcris αμεαμείτε, icriei pilibe.

PR.NEAR TRANS-fall-OTHER.PAST DEF~coin, fall-ANAPH_SUB.PAST grass-ACC I dropped the coins; they fell on grass.

or: I dropped the coins on grass.

4.7 | The copula

(chcl apeapenge bill)

The copula $\langle J-\rangle$ (v3) can take a noun as an object, in which case it can mean identity or membership. (Location is expressed with $\langle I-\rangle$ (v1) "be at".) With no object at all, it is used to denote existence.

It can also accept a descriptor, in which case the descriptor is attached before \(Jcn \) in the dictionary form. (This precedes phonorun reduction but forms a compounding boundary.)

28 CHAPTER 4. VERBS

5 Descriptors

Descriptors act as adjectives or adverbs. They follow what they modify, and are inflected for the verbal person of their antecedents.

Modifying nouns is done through compounding, but there are special forms for modifying verbs. These are separate words.

Table 5.1: Descriptor declensions, using the descriptors $\langle leDf-\rangle$ "large" and $\langle lef-\rangle$ "old"

Person	Declined form	
Nouns	J _f epli (J _f epil)	ງອໂເ (ງໂອເ)
Near	J _f eplih (J _f epihl)	Jəlih (Jləih)
Far	J _f eplih (J _f epihl)	Jəlih (Jləih)
Other	J _f epleh (J _f epehl)	(Acell) Aclel
Anaph. Sub.	J _f eplih (J _f epihl)	Jəlih (Jləih)
Anaph. Obj.	J _f epleh (J _f epehl)	(Acell) Aclel
Generic	J _f eb(ch (J _f ebch()	Jələh (Jləəh)

Note that a final $\langle -J \rangle$ or $\langle -Z \rangle$ in a stem becomes whistled in the generic form.

6 Tree mode

As mentioned in section ??, anaphoric referents in a linked-list sentence are sometimes insufficient for expressing complex sentence structures. While the easiest method of resolving this issue is using definite nouns, Middle Rymakonian also provides a mode where sentences are not linked lists of clauses, but rather (binary) trees.

6.1 Activation

Tree mode is enabled automatically when the treeing particle $\langle n^{4}I^{9}\rangle$ is used, and disabled at the end of a sentence.

6.2 | Branch-switching

The aforementioned particle $\langle \Pi^{4}I^{9}\rangle$ marks the beginning of the right branch of the tree. The right branch is ended by the particle $\langle \Pi^{4}I\Delta\rangle$, which causes the next clause to join the left and right branches.

(N. B. $\langle n^{q_1}q \rangle$ and $\langle n^{q_1}\Delta \rangle$ can occur only between clauses. If the particles are represented by left and right brackets, respectively, then the brackets should match.)

6.3 Anaphoric pronouns in joiner clauses

In clauses that join two branches, anaphoric pronouns require marking whether the antecedent occurs in the left predecessor $\langle n^{q_1}q \rangle$ or the right predecessor $\langle n^{q_1}\Delta \rangle$. This is done by marking the pronoun with $\langle -q \rangle$ or $\langle -\Delta \rangle$.

Likewise, verbs can be modified with $\langle -9 \rangle$ or $\langle -\Delta \rangle$ to indicate which branch the subject came from.

6.4 Errors

The following are ungrammatical:

- Using the particle $\langle n^{q_I}\Delta\rangle$ or the branched anaphoric pronouns when tree mode is disabled
- Using the particle $\langle n^{4}I\Delta \rangle$ other than to close a corresponding $\langle n^{4}I^{4}\rangle$
- Using the unbranched anaphoric pronouns in clauses with two predecessors

- Using the branched anaphoric pronouns in clauses with one predecessor
- Starting a new branch with $\langle n^{4}1^{9}\rangle$ when the current branch is empty

6.5 | Example

```
IJh nc, nyin nic. ( nc, ddczel, nyid díoold µinn. Jhi nc, nyin nic. ( nc, ddczel, nyid dolold µinn. go-near.past pr.other, branch wait-near.past pr.other, stand_up-anaph_sub.past, join chase-anaph_sub.past-right pr.anaph_sub.acc-left When they (i) arrived, they (j) stood up and chased them (i) away.
```

The resulting tree is shown below:



7 | Numerals

Unlike Lek-Tsaro, which used a downright unusual numbering system, Middle Rymakonian uses base 16 consistently.

7.1 | Irregular numerals

Here are the numerals that do not follow the usual pattern, before phonorun reduction:

Table 7.1: Irregular numerals.

base 10	base 16	word
0	0	hзр
1	1	asl
2	}	ſij
3	۲	Ω ^{́Ч} ЭП
4	D	a ^l ıµ
5	4	φсј
6	١	bye ⁽⁾ cj
7	9	ρcj
8	Δ	dən
9	9 Δ L F 7) ^լ ed
10	F	b₃n ^{ଡ଼}
11	7	nə
12	£	le
13	Ħ	J ^α cd
14	A	γın
15	A	ſŸel
16	10	.ıµ
17	11	l ^l el
18	1]	l ^l ela3l
19	17	l ^l elſıj
33]1	abill
34		DI
119	99	ρl()
256	100	rylla2
323	1017	J _l ızılın

base 10	base 16	word
4199	1099	ີງ.ວlə

Note that digits above 9 use capital hacm letters.

7.2 | Double-digit numerals

Numerals of the form $x \cdot 16$ with $1 \le x < 16$ are formed by concatenating $\langle .I \mu \rangle x$. For instance, $128 = 80_{16}$ is written $\langle .I \mu d n \rangle \rightarrow \langle .I \mu a d n \rangle$.

Numerals for integers of the form $x \cdot 16 + y$ with both x and y between 1 and 15, inclusive, and not listed in table 7.1, are formed by concatenating $x < \mu > y < \mu >$ (before PR). For instance, $89 = 59_{16}$ is written $< \varphi c_J \mu l^l e d \mu > \rightarrow < \varphi c_J \mu l^l e \mu >$.

7.3 | Numerals up to 4096

Numerals for integers of the form $x \cdot 256 + y$ with $0 \le x < 16$ and $0 \le y < 256$, and not listen in table 7.1, are formed by concatenating $y < (|y|^{l}a) > x$. This is done after phonorun reduction. For instance, $2018 = 7E2_{16}$ is written $< |y| |y| |y|^{l} |a| > 2016$.

Note that there is no special case for y = 0; $512 = 200_{16}$ is written $\langle \mu 3D^{1} | \Omega J | J \rangle$.

7.4 | Larger numerals

Multiples of 4096 (up to 65536) are written by concatenating $\langle lel \rangle x$ before phonorun reduction: $8192 = 2000_{16}$ is written $\langle lel y \rangle$. The exception is 4096 itself, which is $\langle lel \rangle$.

Then other numerals up to 65536 are written as a conjunctional phrase: $10000 = 2710_{16}$ is written $\langle .lelij \ an ..ip[ql] \ ac[j] \rangle - 2 \cdot 4096 + 16 + 7 \cdot 256$.

8 Derivational morphology

The following methods are used to derive related terms from existing ones.

8.1 | Abstraction

Abstraction is a derivation that takes a non-abstract noun and returns the abstract noun representing the concept of the argument. Before pronoun reduction, this formation appends $\langle -ne \rangle$ or $\langle -no \rangle$ to the noun. In addition, any final fricatives or lateral fricatives after a vowel are voiced, and a final $\langle p \rangle$ after a vowel is changed to $\langle z \rangle$.

Examples:

- $\langle l \mu c n e n \rangle book \rightarrow \langle l \mu c n e n e \rangle literature$
- $\langle l^l \exists l \rangle cart \rightarrow \langle l^l \exists l \exists \rangle (\rightarrow \langle l^l \exists l \exists \rangle) transportation$
- ⟨DCµ⟩ hand → ⟨DCZNe⟩ technique

8.2 Dematuration

Dematuration is a derivation that takes a noun and returns a noun of the same class that represents an immature form of the argument (not necessarily a diminuitive). $\langle l^1C-\rangle$ or $\langle l^2C-\rangle$ are prepended to nouns that begin in $\langle l\rangle$, $\langle l\rangle$ or $\langle l^2\rangle$, or $\langle l^2\rangle$, or $\langle l^2\rangle$ or $\langle l^2\rangle$, or $\langle l^2$

Examples:

- $\langle DIZI \rangle$ person $\rightarrow \langle |CDIZI \rangle$ child
- $\langle J^{0} \rangle \rangle$ fruit $\rightarrow \langle J^{0} \rangle \rangle \rightarrow \langle J^{0} \rangle \rangle$ unripe fruit
- $\langle \text{jedilcn} \rangle \text{ essay} \rightarrow \langle \text{l}^1 \text{czedilcn} \rangle \text{ draft}$

8.3 | Verb-to-noun conversions

To derive a noun from a verb, an affix is added to the verb stem:

NameAffixAgent $-en^{\phi}$ / $-on^{\phi}$ Patient-ed / -odLocation $-e\mu$ / $-o\mu$ Instrument $-il^{\phi}$ Causer $-e\alpha^{\psi}d$ / $-o\phi^{\psi}d$

Table 8.1: Conversion affixes.

Then the resulting word is declined as an abstract noun, and phonorun reduction happens. After phonorun reductions, the order of phonoruns is reversed, such that the last phonorun becomes the first, for instance. Finally, the final phonorun is continued by appending $\langle -c \rangle$ or $\langle -f \rangle$.

The following words are derived from $\langle n \ni b - \rangle$ (v2) to steal:

- Agent: $\langle nabon^{\varphi} \rangle \rightarrow \langle n^{\varphi}bnac \rangle$ thief
- Patient: $\langle n \Rightarrow b \Rightarrow d \rangle \rightarrow \langle b d \Rightarrow c \rangle$ stolen goods
- Location: <neby> →
 Location: <neby

 Location: Location Location
 Location
 Location
 Location
 Location
 Location
 Location
 Location
 Location
 Location
 Location
 Location
 Location
 Location
 Location
 Location
 Location
 Location
 Location
 Location
 Location
 Location
 Location
 Location
 Location
 Location
 Location
 Location
 Location
 Location
 Location
 Location
 Location
 Location
 Location
 Location
 Location
 Location
 Location
 Location
 Location
 Location
 Location
 Location
 Location
 Location
 Location
 Location
 Location
 Location
 Location
 Location
 Location
 Location
 Location
 Location
 Location
 Location
 Location
 Location
 Location
 Location
 Location
 Location
 Location
 Location
 Location
 Location
 Location
 Location
 Location
 Location
 Location
 Location
 Location
 Location
 Location
 Location
 Location
 Location
 Location
 Location
 Location
 Location
 <l
- Instrument: $\langle n \ni b | l^j \rangle \rightarrow \langle n \ni b | l^j \rangle \rightarrow \langle b | l^j n \ni ic \rangle$ tools used for theft
- Causer: $\langle n \Rightarrow b \Rightarrow \phi d \rangle \rightarrow \langle b \phi d n \Rightarrow \rangle$ person or factor that caused the theft

Occasionally, a word derived by this method might become lexicalised. In that case, it moves to the noun class of best semantic fit and its declension is regularised (based on the nominative form).

8.4 | Verb-to-verb conversions

The main productive verb-to-verb conversion is the *immediate reversal*, which is expressed with an infix $\langle -IDZ-\rangle$ or $\langle -d3\Omega-\rangle$ immediately before the ending, depending on whether the last phonorun of the stem (before phonorun reduction) is open or closed, respectively. This conversion is often associated with the lack of volition.

- $\langle \Omega \text{ED} \rangle$ sleep $\rightarrow \langle \Omega \text{EDIDZ} \rangle$ be woken up forcibly ($\rightarrow \langle \Psi \text{C}\Omega \text{EDIDZ} \rangle$ wake someone up forcibly)
- ⟨DeZ−⟩ ride, board → ⟨DeZIDZ−⟩ be forcefully ejected from a ride (→ ⟨ΦCDeZIDZ−⟩ eject someone from a ride)
- $\langle ne\mu a \rangle$ hide $\rightarrow \langle ne\mu ads \Omega \rangle$ be uncovered ($\rightarrow \langle \phi cne\mu ads \Omega \rangle$ uncover something)

9 Names

Names fall into two grammatical categories:

- Nominal names act as nouns. They are usually single words.
- Clausal names are entire clauses. These names usually refer to places, although a
 few people have clausal names. In extreme cases, such a name can span multiple
 clauses.
- Station names are used for places where a medium of transportation stops to exchange passengers according to a regular schedule (e. g. a train station or a bus stop). These are verbs.

9.1 | Nominal names

These names act as nouns, and they are preceded by a backslash $\langle \backslash \rangle$. If the name spans multiple words (as common in foreign names), spaces are escaped by backslashes. No distinction is made between native and foreign names.

Only personal names can stand on their own, and even then, only given or full names. Other names must modify a common noun describing the nature of what is named, in the integral number without definiteness.

Table 9.1: Some examples of nominal names.

Name	Туре
/h3ze	Personal (native)
/jız3	Personal (native)
\hebcu	Personal (foreign)
dµepe-\oili.c	Place (foreign)

Native names will usually respect vowel harmony. Children of parents who work in professions demanding physical labour (e. g. bricklaying) will usually have names with back vowels. In contrast, those born to parents of professions that do not demand physical strength (e. g. computer programming) will usually bear names with front yowels.

In addition, native names tend to undergo sound changes from Lek-Tsaro to Middle Rymakonian, but foreign names given when Lek-Tsaro was still spoken retain Lek-Tsaro forms, but with the following vowel replacements (and, of course, orthographic changes) – see table 9.2.

38 CHAPTER 9. NAMES

m 11 a a x 1 m	1 .	1 (c .
Table 9.2: Lek-Tsaro to Middle R	ymakonian corres	nondences for	toreign names
Table 7.2. Lek Touro to Milaure R	y makoman com co	poliaciices for	ioi cigii iidiiico.

Middle Rymakonian	From these vowels in Lek-Tsaro
I	I J ^e
е	e eº cº
С	C C ₉
Э	o ə ^o
ə	ə ^c ə

In phonorun reduction, foreign names are not affected by metathesis.

9.2 | Clausal names

These names comprise of one or more clauses. Due to the nature of clausal names, they are all considered native. However, almost all except the newest clausal names are frozen and might not be valid clauses in Middle Rymakonian; usually, they are Lek-Tsaro clauses with the vowel replacements outlined in table 9.2.

Most of these names refer to places; personal clausal names are almost always nicknames or such. Orthographically, they are put into square brackets $\langle [] \rangle$.

Clausal names are used by saying them as their own clauses, then using an anaphoric pronoun to backreference the entity described by the name in question. The type of anaphoric pronoun used varies from name to name. It might be the anaphoric subject pronoun, the object pronoun or the last-clause pronoun.

We call the *referent* the subject, the object or the verb of the last clause, respectively depending on the type of anaphoric pronoun used to refer to the name. If the referent is a noun, it must be declined in the integral number without definiteness.

Here, as common in maps and such, the referent will be capitalised. However, other contexts that make the type of anaphoric pronoun to use clear do not use this type of capitalisation.

Table 9.3: Some examples of clausal names.

Name	Туре	Literal meaning
[(coc) I/Ihb ∋4¥3A]	Place	The trees <i>covered</i> the ground
[pəli φ XED E hcj-/feαhe]	Place	The city remembers the Šedri
		(Šedrŷ) star
[ac lμιίθ-σι jcl jθμ j ^h i.en-σι jcl line, φοεjc.el Φ XEDED]	Place	The <i>city</i> was founded by the warrior of the sun and the wizard of the moon
[bezi \Ψ∃ΤЭF j3l-l ^l el]	Personal	Gulto takes care of 17 foxes

An example of usage:

[Dəli dpede pc]-\lenpe], n.ì binen-.c)jpi j^he didizi pi. (name), in_time year-next go-ANAPH_SUB def~person PR.ANAPH_SUB He will go to Muta Pröme Ryk-Šedrŷ next year.

9.3. STATION NAMES 39

9.3 | Station names

These names describe places where a medium of transportation stops to exchange passengers according to a regular schedule (e.g. a train station or a bus stop). Station names are (usually first- or second-conjugation) verbs whose base meaning is (S) goes to \$station via \$transportation. They are marked with a per cent sign <%> before the name.

Unlike with other verbs, the immediate reversal does not necessarily suggest a lack of volition. The reversal of a station name, rather, simply means (S) goes from \$station.

The other derivations have the following meanings:

(base) Immediate reversal (base verb) (S) goes to \$station (S) goes from \$station A passenger going to \$station A passenger going from \$station Agent Patient (undefined) Location The \$path to \$station The \$path from \$station Instrument The \$transporation going to The \$transportation going from \$station \$station The driver of said \$transportation Causer

Table 9.4: Derivations of station names.

In addition, the aspect marker $\langle -J \rangle$ changes the meaning from (S) goes from \$station to (S) boards the \$transportation to \$station. Similarly, combining both the immediate reversal infix and the perfect aspect marker yields (S) boards the \$transportation from \$station.

There are several ways a station name can be derived:

- From a nominal name: if it does not end in a verbal affix, then one is attached:
 e. g. ⟨dµeDe-\oili.c⟩ → ⟨%oili.-⟩ (v3).
- From a clausal name wherein the referent is S or O: Let C be the nonreferent among S and O (or empty if none). Then the station name comes from a compound of C-V: 〈[pəſi 中光EĐE μc]-\lenμe]〉 → 〈%μc]-\lenμe-pəſ-〉 (v2). (In a name with multiple clauses, ignore those that do not contain the referent.)
- From a clausal name with V as the referent: If neither S nor O exists, let C be empty. If S xor O is a "common word", then let C be the one that is not common. Otherwise, let C be S. Then the station name comes from a compound of C-V: <[AEXΨ€ drlʃ] [500]]> → </kdolʃ] -neµ0-> (v3).

9.3.1 | Common words

"Common words", in the context of deriving station names, include:

- Numerals
- Sentient nouns that are neither personal names nor modified by <=DI>
- 〈dhllı〉 ground, 〈louol〉 tree, 〈lɪdɪ」〉 stone or 〈luzcɪ〉 river, as well as their Lek-Tsaro equivalents in frozen names, not modified by any nominal names (but names for a specific kind of tree, etc., e. g. 〈ncɹou〉 birch are not common words)

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	ñ	ŋ	
Plosive	рb		t d	ťď	k g	
Fricative	fv	þð	S Z	šž	hħ	
(coärticulated)	fh vħ	þh ðħ		fš vž		
(whistled)			ŝ ĉ			
Affricate			С	č		
Lateral fricative			ŚŻ			
Approximant			r	j	W	
Lateral approximant			1			
Тар			ř			

Table 6: The vowels of Middle Rymakonian.

	Front	Central	Back
High Mid	i	у	u
Mid	e		0
Low		a	

The digraphs <fh vh þh ðh fš vž ts tš> correspond to coärticulated 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 $\langle 1\ 2\ 3\ 4\ 5\ 6\ 7\ 8\rangle$ attached to the end of the verbs they encompass. Halfway rod signals are represented by subscript digits $\langle _4\rangle$. Transitions from the ninth rod signal are written $\langle 9^7\ 9^8\rangle$. Proper words are preceded by a backslash $\langle \backslash \rangle$.

 $\langle \eta \rangle$ should be capitalised as $\langle N \rangle$ only if one can depend on the majuscule glyph appearing like an N with a hook. Otherwise, it should be spelled $\langle Ng \rangle$.

42 CHAPTER 9. NAMES

A | List of glossing abbreviations

An asterisk indicates that this value is unmarked.

Abbr	Definition
Case	
NOM*	Nominative
ACC	Accusative
GEN	Genitive (this is a clitic and not a case per se)
Number	
DIR*	Direct
INV	Inverse
ND*	Nondual
DU	Dual
Person	
NEAR	Near
FAR	Far
OTHER	Other
ANAPH_SUB	Anaphoric subject
ANAPH_OBJ	Anaphoric object
GENERIC	Generic
Definiteness	
INDEF*	Indefinite
DEF	Definite
Tense	
NONPAST*	Nonpast
PAST	Past
Tellicity	
TELIC*	Telic
ATELIC	Atelic
Polarity	
POS*	Positive
NEG	Negative
Q	Interrogative
Aspect and connec	ctor type names are not abbreviated.
Connector parity	
0	Even
1	Odd

Comparisons

Abbr	Definition	
CMP	Comparative	
Comparators are glossed using their respective operator symbols.		
Transitivisation		
TRANS	Transitivised	
Tree mode		
BRANCH	Create a new branch (<n<sup>41⁹>)</n<sup>	
JOIN	Join two branches (⟨nԿɪΔ⟩)	
LEFT	Refer to left branch ($\langle -9 \rangle$)	
RIGHT	Refer to right branch ($\langle -\Delta \rangle$)	

B Dictionary

An entry looks like this: Dil- v1 (S) eats (O) From left to right:

- 1. The entry the Middle Rymakonian term listed.
- 2. The part of speech of the corresponding entry:
 - *n* a noun
 - -d- inherently dual
 - -sent sentient noun
 - -nonsent nonsentient noun
 - -meas measure noun
 - -edib edible noun
 - -ined inedible noun
 - -abst abstract noun
 - v1, v2, v3 first-, second- and third- conjugation verbs
 - desc a descriptor
 - pp a preposition
 - -(b) this entry has only neutral vowels but acts as if it had back vowels
 - -(η) this entry came from a word that started with $\langle n^{\phi} \rangle$ and thus certain prefixes will revert it back
- 3. The definition the gloss for the corresponding entry.
 - (S) subject
 - (0) direct object
- 4. If applicable, any special grammatical or semantic notes for this term.
- 5. Optionally, examples of usage.

.cljµ– desc new, next

.CDen nnonsent house	IL
[lcn-v1 (S) shoots an arrow to (O)
In Property child (young person) μιπ Property cloud μιπ Pro	l lidjc nedib soup l'Inde nnonsent fish J J- v3 copula j3l nnonsent fox jodensent land, country jen- v1 (S) is worried by (O) jedilcn nsent essay Ja Jalen nsent magician jalz- v3 (S) creates, makes (O) jacn nabst how many?
ρ Πομ- desc handsome, beautiful ρcj ^h - v1 (S) follows (O) ροzə nnonsent fruit	Jh pp toward $J^h pp$ toward $J^h - vI$ (S) goes toward (O) $J^h Z pp$ written by
IJID nnonsent window In pp in, on, at (location) Inl- v1 (S) lives in (O) IPII nnonsent stairs IIN nmeas 1/23 of a tidal day IIΩC nnonsent moon IIIIJ nined stone ION- desc entire, complete Ief- desc old	n.l pp in, on, at (time) n.l pp through nuizi nnonsent cat ni v3 (S) waits for/until (O), temporal verb, if ni.ez - v3 (S) covers, spans (O) ncjai nnonsent birch ncd - v3 (S) dances around (O)
) l μcΩen nnonsent book	neb- $v1$ (S) gives something to (O) ne $\mu\alpha$ - $v3$ (S) hides from (O) nən- $v2$ (S) kills (O), (O) dies nəb- $v2$ steal

```
nЧ
                                            Ω
   n^{4}
                    (S) thinks, ponders
                                               \Omega \cap \Im \phi nnonsent wall
about (0)
                                               ΩCĺ¹− v1
                                                          (S) hits, strikes (O)
                                               Ω3Z- v2 comparative verb
  a
                                               ΩeD- v1
                                                           (S) sleeps
                                               ΩeD- v1
                                                          (S) sleeps
   apenye nnonsent coin
                                               ΩƏZO nnonsent
                                                                   pathway, street,
   ac.c) nabst centre, origin
                                            road
   acjn pp according to
   acze nabst light
   aczeliac nabst moonlight
                                            φ
   \alpha eo - v3 jump
  al
                                               \varphi<sup>1</sup> cd-v<sup>3</sup> (S) lowers their own (O)
                                               \varphi \nu i - v1 (S) raises their own (O)
   \alpha^{l} – v^{3} do what?
                                               \varphi \nu \ni \cap^{\varphi} nnonsent frog
   al3µ∂ nedib potable water
  a^h
                                            l d
   α<sup>h</sup>∂D⊃ nabst empathy
                                               d3n^{\varphi} i ndnonsent(b) knee
                                               dφc<sub>1</sub> nabst
                                                             ability, potential, pos-
                                            sibility
  D
                                               ddisjμin<sup>φ</sup> nnonsent mist, fog
   D) pp far away from
                                               ddilli nabst ground, floor
   D3\Pi^{\phi}3 nnonsent rabbit
                                               ddcz-v1 stand, get up
   DZIdµ nsent nobleman, gentleman
                                               d\mu pp with (comitative)
   Dil-v1 (S) eats (O)
                                               dµ− v3 hold, carry, instrumental
   DIN nedib rice
                                            verb
   DIZI nsent person
                                               duede nnonsent city
   DCli desc far
                                               di(\nu - v1) (S) sits at (O)
                    border, boundary
   DCNI nnonsent
                                               dol- v2
                                                           (S) chases away (O), (O)
   DCU ndnonsent hand
                                            flees from (S)
   DCZNe nabst technique
   DOI - v2 (S) produces, makes (O)
   DON<sup>$\phi$</sup> nnonsent head
   Delin nmeas hour
                                            l b
   Den∫- v1 begin, start
   Ded− v3 err, miss
                                               bine nmeas year
   Deby-v1 (S) resembles (O)
   Dez-v3 (S) raises, takes care of,
tends to (O)
                                            Ч
   Dez-v1 (S) boards, rides (O)
   Del nmeas volume
   Dell-v3 (S) imitates (O)
                                               y-v1 (S) sees (O), because, (S) illu-
   Dəl⊃n<sup>\phi</sup> nsent servant
                                           minates (O)
```

h

Pld pp with (colour) hair
P310 nabst nighttime
P310 nnonsent cup
Pn pp with (instrumental)
Pu pp in front of
P3D3 nmeas day (continuous)
Pili nined grass

μη – v1 (S) climbs, rises in (O)
μη do nnonsent hair
μευ – v3 (S) spreads (O)
μευ – v3 (S) speaks to (O), (S) asks
(O)
μεθη nnonsent place
μεθη μεθη μεθη nnonsent hometown,
home village, (figurative) Rymako
μεθο nined gold