???

Tíməh, the language of Lą́gų

M.M.N.H.

A Grammar

Dedicated to my haters

# Contents

1	Intr	oductio	on	7
	1.1	Extern	nal History	7
	1.2	Interna	al History	7
		1.2.1	People	7
		1.2.2	Place	7
		1.2.3	Beliefs & Practices	7
			1.2.3.1 Magic	7
		1.2.4	Dialects	7
2	Pho	nology	•	9
			nants	g
			Consonant Allophony	
			Dialectal Variations of Consonants	
	2.2		ls	
			Vowel Allophony	
			Dialectal Variations of Vowels	
	2.3		ological Processes	
		2.3.1	Stress	11
		2.3.2	Vowel Harmony	11
		2.3.3	Obstruent Weakening	12
	2.4	Obstru	uent Contraction	12
		2.4.1	Degemination	13
	2.5	Tone .		13
		2.5.1	Tone Association	13
		2.5.2	Tone Mobility	13
			2.5.2.1 Leftward Tone Shift	14
	2.6	Phono	otactics	14
		2.6.1	Syllable Structure	14
			2.6.1.1 Restraints	14
3	Pros	sodv		15
_			ony	
			dic Hierarchy	
			ntion	
4	Orth	ograpl	hv	16
		-	Scripts	
	1.1		Latin	

		4.1.2 Tibetan	17
		4.1.3 Mkhedruli	17
		4.1.4 Hacm	18
5	Synt		19
	5.1	Sentence Structure & Word Order	19
		5.1.1 Dependent Clauses	19
	5.2	Alignment	20
	5.3	Repeat Argument Dropping	20
	5.4	Clitics	20
6	Levi	cal Categories & Properties	21
U		Lexical Categories & Roots	
	0.1	6.1.1 Constant Roots	
		6.1.2 Mutable Roots	
	6.0		
		Integrity	
	6.3	Probability	22
7	Nou	ns	23
	7.1	True Nouns	23
	7.2	Pronouns	23
		7.2.1 Personal	23
		7.2.2 Possessive	
		7.2.3 Relative/Interrogative	
		7.2.4 Demonstrative	
	7.3	Declensions	
	,	7.3.1 Noun Classes	
		7.3.2 Cases	
		7.3.2.1 Declension of Mutable Roots	
		7.3.3 Article Enclitics	
	7.4	Postpositions	
		Noun Reduplication & Quantification	
	7.5	Noun Reduplication & Qualitification	29
8	Verl	os estados est	30
	8.1	True Verbs	30
	8.2	Valency Classes	30
	8.3	Volitional Classes	30
	8.4	Verbal Reduplication	30
	8.5	Conjugations	31
		8.5.1 Pronominal Proclitics	31
		8.5.2 Noun Incorporation	32
		8.5.3 Voice & Investment	
			33
			34
		1	34
		8.5.6.1 Conjugation of Mutable Roots	
		8.5.7 Evidential Moods	
		8.5.8 Directional Specifiers & Applicatives	
		1 11	-

	8.6 Verbal Classifiers	36
	8.7 Serial Verb Constructions	37
	8.7.1 Perceptive	37
	8.7.2 Directive	37
	8.7.3 Capacitive	37
	8.8 Copulae	37
9	Descriptives & Derivation	39
	9.1 Dyadic Color Terms	39
	9.2 Comparison	40
	9.3 Derivation	40
	9.3.1 Sound Symbolism	41
10	Function Words	43
	10.1 Conjunctions	43
	10.2 Satellite Conjunctions	43
	10.3 Affirmatory & Negatory	44
11	Numerals	45
19	Register & Kinship Terms	46
	12.1 Register	
	12.2 Kinship	
13	Ideophones	47
	13.1 Ideophonemes	47
	13.2 Ideophones	47
14	Semantics & Pragmatics	48
	14.1 Topic & Focus	48
	14.1.1 Topic & Focus Marking	48
	14.2 Deixis	48
	14.2.1 Spatial/Temporal Deixis & Domains	48
15	Speech Registers	50
Αŗ	pendices	51
Α	True Nouns	51
В	True Verbs	52
C	Dictionary	53
	Ideophones	55

List of Figures 5

# | List of Figures

2.1	Consonant Phonemes	9
2.2	Vowel Phonemes	10
2.3	Vowel Harmony	11
2.4	Harmony Spread	12
2.5	Obstruent Weakening	12
2.6	Obstruent Contraction	12
2.7	Obstruent Hierarchy	
2.8	Tone Association	
	Leftward Tone Shift	
	Syllable Structure	
	Coda Reduction	
2,11	Counteduction	- '
3.1	Prosodic Hierarchy	15
4.1	Romanization (Consonants)	16
	Latin (Vowels)	
4.3	Tibetan (Consonants)	
4.4	Tibetan (Vowels)	
4.5	Mkhedruli (Consonants)	
4.5 4.6	Mkhedruli (Vowels)	
4.0 4.7	Hacm (Consonants)	
4.8	Hacm (Vowels)	18
5.1	Alignment	20
7.1	Personal Pronouns	23
7.2	Possessive Pronouns	
	Relative/Interrogative Pronouns	
	Demonstrative Pronouns	
	Declension Slots	
	Noun Classes	
7.0 7.7	Cases	
7.7 7.8	Declensions of Mutable Roots	
	Article Enclitics	
7.9	Article Elicities	20
8.1	Conjugation Slots	31
8.2	Deranked Conjugation Slots	
8.3	Pronominal Proclitics	
8.4	Voice	
8.5	Aspect & Mood	
8.6	Conjugation of Mutable Roots	
8.7	Verbal Classifiers	
0.7	verbar diassificis	50
9 1	Dyadic Color Terms	39

6

	Magnitude Movement .																							
11.1	Numerals .			•	 	•	•	•	 					 		 	•	•	•		•	•	•	45
12.1	Register Tern	ns .		•	 	•			 							 						•		46
13.1	Ideophoneme	es .		•	 . <b>.</b>		•		 	•						 					•	•	•	47
14.1	Deictic Space	·							 					 		 								49

# 1 | Introduction

### 1.1 | External History

The Timah language (tíməh [t²iməh]; lit. <u>language</u>, <u>speech</u>) is a constructed language (*conlang*) made by me, Mareck (M.M.N.H.). Its primary goal is simply to be documented entirely in  $\LaTeX$  (*LaTeX*).

Like most of my constructed languages, it tries to focus balancing between the interesting and the naturalistic, in terms of phonology, grammar, etc. Naturalism, however, is not the primary goal. I have therefore given myself the freedom to take liberties in terms of naturalism.

### 1.2 | Internal History

The Timah language is spoken by the Khokan people (khok²ɔtçòʔe [khok²odzòʔe] lit. many-person). They live on the Lankung Archipelago (lónkon [lấŋguŋ] lit. our-place)

TODO all of this

### 1.2.1 | People

The Khokan people are a largely matriarchal and polyandrous society. The practice of polyandry, wherein a woman may take multiple spouses, is due to the scarcity of land and resources.

Large communities (consisting of several family clans governed by a single clan) are on or around the more mountainous island centers, where terrace-farming is practiced. On the flatter shores, there are smaller communities (consisting of only a few family clans with no single governing clan).

TODO expand this

### 1.2.2 | Place

The Lankung Archipelago consists of five main islands and hundreds of smaller islands surrounding the main islands. The main islands are mountainous and forested.

TODO expand this

### 1.2.3 | Beliefs & Practices

TODO expand this

### 1.2.3.1 | Magic

TODO expand this

#### 1.2.4 | Dialects

There are four main dialects of Timah. They are, from northmost to southmost, the *Cliff, Far Lake, Near Lake*, and *Shore* dialects. The Near Lake dialect is the prestige dialect, and is the one

1 | Introduction 8

described here. The Far Lake and Shore dialects are fairly similar to the Near Lake dialect; the Cliff dialect is the most divergent.

# 2.1 | Consonants

	Labial	Alveolar	Palatal	Velar	Glottal	Placeless
Nasal	m	n				N
Plosive		th t t?	$tc^h tc tc^?$	$k^h\;k\;k^?$	?	
Fricative		$s^h s s^?$			h	
Approximant	w	1	j			

Figure 2.1: Consonant Phonemes

- /n th t t?/ are dental; /sh s s? l/ are alveolar.
- /tch tc tc²/ are alveolo-palatal; /j/ is palatal.
- /h/ is articulated with true frication of the glottis, i.e., it is not a voiceless glottal approximant.
- /N/ is a nasal coda archiphoneme, i.e., not an uvular nasal<sup>1</sup>.
- The aspirated obstruents  $/t^h t_c^h k^h s^h/$  may be accompanied by slight breathy-voice on the following vowel.
- The fortis obstruents /t² tç² k² s²/ are articulated with laryngeal tension, and may be accompanied by slight creaky-voice on the following vowel.

### 2.1.1 | Consonant Allophony

- /m n/ surface as the implosives [6 d] word-initally.
- The coda archiphoneme /N/ surfaces as [n n n] before alveolar, (alveolo-)palatal, and velar plosives, respectively. It surfaces as nasalization of the preceding vowel before all other consonants. It surfaces as [n] word-finally after non-back vowels, and as  $[\widehat{n}]$  word-finally after the back vowels /o  $\frac{1}{2}$  and before the labio-velars  $[\widehat{kp}]$   $[\widehat{kp}]$ .
- The aspirated obstruents  $/t^h$   $t_s^h$   $k^h$   $s^h$ / are deäspirated to [t  $t_s^h$  k s] intervocalically and after /w j N/.
- The tenuis obstruents /t tc k s/ are voiced to [d dz g z] intervocalically and after /w j n/.
- $/k^h$ / surfaces as [x] before [a]. This does not occur after /N/.
- The velars  $/k^2 k k^h$ / surface as labio-velars  $[\widehat{kp}^2 \widehat{kp} \widehat{kp}^h]$  before the back vowels /o ɔ/.  $[\widehat{kp}]$  is voiced to  $[\widehat{gb}]$  and  $[\widehat{kp}^h]$  is deaspirated to  $[\widehat{kp}]$  intervocalically and after /w j N/.

<sup>&</sup>lt;sup>1</sup>Yes, I say /ən 'uvjələ'/. Deal with it.

- /n/ is palatalized to [n] before [i] word-medially.
- The sibilants  $/s^h$  s  $s^2/$  are palatalized to  $[\varsigma^h \varsigma \varsigma^2]$  before [i].  $[\varsigma]$  is voiced to [z] and  $[\varsigma^h]$  is deaspirated to  $[\varsigma]$  intervocalically and after /w j N/.
- /l/ surfaces as [r] intervocalically and after /w j N/.
- /w/ surfaces as [v] before [i].

### 2.1.2 | Dialectal Variations of Consonants

- In some [which?] dialects, the fortis plosives /t² tç² k² s²/ may surface as ejectives [t' tç' k' (t)s'] or geminates [tt ttç kk ss-tts].
- In some [which?] dialects, the alveolo-palatals /tçh tç tç²/ may surface as alveolar affricates [tsh ts ts²] or true palatals [ch c c²].
- In some [which?] dialects, the lateral [l] has merged with either /j/ or /n/.
- Depending on dialect [which ones?] and idiolect, the glottal fricative /h/ may variously surface as any of [x  $\chi$  ħ h].
- Depending on dialect<sup>[which ones?]</sup> and idiolect, the lateral /l/ may variously surface as any of [r x l t l Ď ţ z].
- In the Shore dialect, /w/ surfaces as  $[\psi^{\beta}]$ , i.e., it has lip compression instead of protrusion.

# 2.2 | Vowels

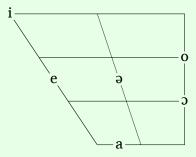


Figure 2.2: Vowel Phonemes

- All vowels may occur as long or short (see § 2.6.1)
- /e/ is true mid  $[e]^2$ .
- /a/ is near-front [a] (i.e., not central [ä]).

### 2.2.1 | Vowel Allophony

- · All vowels are nasalized before nasal consonants.
- /i/ surfaces as [i] after the velars /kh k k²/ and before coda [ŋ].
- /o ɔ/ raise to  $[u\ o]^2$  word-finally in open syllables, after the velars  $/k^h\ k\ k^2\ w/$ , and before coda  $[\eta]$ .
- /a/ surfaces as [æ-ε] after the palatals /tc<sup>h</sup> tc tc<sup>2</sup> j/ and before coda /j/.

### 2.2.2 | Dialectal Variations of Vowels

- Some [which?] dialects have merged the back vowels /o o/ into true mid [o].
- Some [which?] dialects have merged the front vowels /i e/ into [i~1].
- In the Shore dialect, the back vowels /o  $\sigma$ / (and their allophones) surface as  $[\gamma^{\beta} \Lambda^{\beta}]$ , i.e., they have lip compression instead of protrusion.

# 2.3 | Phonological Processes

### 2.3.1 | Stress

Stress placement in Timah is phonologically determined and is not phonemic.

Stress occurs on the left-most live syllable, wherein a syllable ending in a sonorant /n w j/ or long vowel are grouped as *live* and those ending in /? h/ are grouped as *dead*.

Open syllables (i.e., syllables with a short vowel and no coda) are superseded by live syllables but take precedence over dead syllables in terms of stress hierarchy.

### 2.3.2 | Vowel Harmony

Timah displays vowel harmony based on tongue root position.

Vowels are divided into two classes: + ATR and - ATR, traditionally grouped as *light* and *heavy* vowels.

Figure 2.3: Vowel Harmony

Vowel harmony is very pervasive; harmony spreads rightwards from a stressed vowel until it is terminated.

Vowel harmony is terminated after dead syllables (i.e., syllables ending in /? h/) and non-harmonizing morphemes, such as clitics.

<sup>&</sup>lt;sup>2</sup>[e o] will be transcribed as [e o] for the sake of brevity.



Figure 2.4: Harmony Spread

### 2.3.3 | Obstruent Weakening

Initial obstruents in compound words (including verbs with incorporated nouns, see § 8.5.2), here represented by  $\omega_1\omega_2$ , may undergo weakening. If an obstruent is present initially in  $\omega_2$ , it undergoes one of the following mutations.

Figure 2.5: Obstruent Weakening

# 2.4 | Obstruent Contraction

In non-initial sequences of  $P_1VP_2V$ , wherein  $P_1VP_2V$ , wherein  $P_2VP_2V$ , wherein  $P_2VP_2V$  is contracted to  $P_2VP_2V$ . This does not apply within roots (but can occur at root boundaries e.g., after inflection and in compounds), and applies after obstruent weakening.

 $P^h$  represents the aspirated obstruents /t<sup>h</sup> tç<sup>h</sup> k<sup>h</sup> s<sup>h</sup> h/, P represents the tenuis obstruents /t tç k  $?^3$ /, and  $P^2$  represents the fortis obstruents /t<sup>2</sup> tç<sup>2</sup> k<sup>2</sup> s<sup>2</sup>  $?^3$ /. The glottals /? h/ only affect contraction when they occur as  $P_2$ .

Figure 2.6: Obstruent Contraction

The specific place and manner of articulation of  $P_3$  is dependent on an hierarchy of the obstruents in the positions  $P_1$  and  $P_2$ , i.e., obstruents lower in the hierarchy assimilate to those higher in the hierarchy.

$$k^* > t c^* > t^* > s^* > ?, h$$

Figure 2.7: Obstruent Hierarchy

 $<sup>^{3}</sup>$ /?/ is classed as tenuis when it is either  $P_{1}$  or  $P_{2}$ , and as both tenuis and fortis when it is  $P_{3}$ 

If there is a tone associated with the elided vowel, it and all tones left of it are shifted one syllable leftward until a toneless syllable (*cf. § 2.5.2*).

### 2.4.1 | Degemination

Timah does not allow gemination of consonants, even across word boundaries. When a coda /? h w j/ precede a word with an identical onset, the onset is elided and the coda takes its place. This occurs on the phonetic level.

### ki?əj já

/ki?əj j\/

[kì?òj á]

my boat

### 2.5 | Tone

Timah has two distinct tonemes: *high* and *low*, as well as the option of being unmarked for tone. Tonally unmarked syllables are phonetically realized identically to the low tone, but unlike low tone, it can be affected by various tonological processes such as *tone association* and *tone mobility*.

### 2.5.1 | Tone Association

Tone association is the process in which the tone of a given syllable spreads (or doesn't spread) to the preceding toneless syllable.

Floating tones follow similar rules, but can associate in either direction.

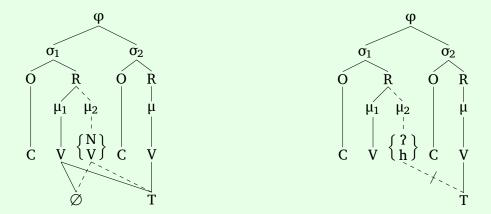


Figure 2.8: Tone Association

# 2.5.2 | Tone Mobility

Tones in Timah may move from their inherent position to a different surface position.

### 2.5.2.1 | Leftward Tone Shift

At the end of a Prosodic Unit (PU), all tones are shifted one syllable leftward until a toneless syllable, leaving the final syllable toneless. Unlike tone association, tone shift is not blocked by dead syllables.

TODO(?) more tone mobility

Figure 2.9: Leftward Tone Shift

# 2.6 | Phonotactics

### 2.6.1 | Syllable Structure

$$CV(T)(V^4(T)|H|S)$$
 $H = \{?,h\}$ 
 $S = \{N,w,j\}$ 
 $T = \{ó, ò\}$ 

Figure 2.10: Syllable Structure

### **2.6.1.1** | Restraints

These phonotactic restraints govern allomorphy.

- The nasal coda /n/ cannot precede a nasal /m n/.
- The glottal codae /? h/ cannot precede another glottal /? h/.
- The glottal coda /h/ cannot precede a sonorant /m n w l j/.
- The glides /w j/ cannot precede another glide /w j/.
- The glide /w/ cannot follow /o ɔ/.
- The glide /j/ cannot follow /i e/.

In roots, the following coda reductions occur if the former rules are violated. The coda is deleted and lengthens the preceding vowel (if short). It may also apply tone to the long vowel.

$$\begin{array}{ccc} ? & & & & & & \\ h & \rightarrow & & & & & \\ \textbf{N} \ \textbf{W} \ \textbf{j} & & & & & & \\ \end{array}$$

Figure 2.11: Coda Reduction

<sup>&</sup>lt;sup>4</sup>Long vowel codae must be homorganic in vowel quality, but not necessarily in tone.

# 3 | Prosody

# 3.1 | Isochrony

Timah is a moraically-timed language, i.e., the duration of every mora is approximately equal. Nuclei and live codae both count as one mora; onsets and dead codae do not contribute to mora count (see § 2.3.1).

# 3.2 | Prosodic Hierarchy

Prosodic units can be separated into a hierarchy of sub-units. TODO all of this

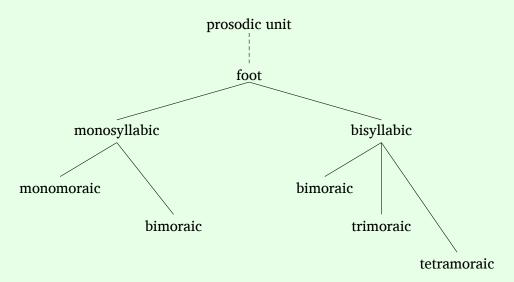


Figure 3.1: Prosodic Hierarchy

# 3.3 | Intonation

TODO all of this

# 4 | Orthography

The Timah language uses the *Loma* script (lɔ́ma [lɔ́mà] lit. smooth-word), a defective abugida that was borrowed from a neighboring language Maryu (Timah májlə [bájrò]). It was originally written on the large, durable leaves of the s²ə́lə́w ([s²ə́rə́w]) plant, which contributes to the script's curled aesthetic.

TODO native, script, other adaptations; tone markers

# 4.1 | Other Scripts

# 4.1.1 | Latin

	Labial	Alveolar	Palatal	Velar	Glottal	Placeless
Nasal	⟨m⟩	<n></n>				⟨ <sup>°</sup> ⟩ <sub>6</sub>
Plosive		⟨th d t⟩	⟨ch j c⟩	⟨kh g k⟩	$\langle \dot{p} \rangle_{e}$	
Fricative		⟨sh x s⟩			<h></h>	
Approximant	<w></w>	<1>	<y></y>			

Figure 4.1: Romanization (Consonants)

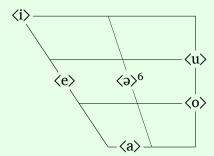


Figure 4.2: Latin (Vowels)

 $<sup>^6/</sup>N$  ?  $_9/$  may alternatively be romanized as (n 'v), respectively.

4 | Orthography 17

# 4.1.2 | Tibetan

	Labial	Alveolar	Palatal	Velar	Glottal	Placeless
Nasal	⟨₹/>	<ব>				$\langle \mathfrak{G} \rangle^7$
Plosive		<\p>5 5>	⟨ಹ ह ᢐ⟩	([고 피 피>	⟨¬, ¬, ¬,	
Fricative		⟨₽ ₹ ₹⟩			<5, ७४३> <sup>7</sup>	
Approximant	<শ্ব, শ্ব> <sup>7</sup>	⟨┸⟩	<౻, ሢ> <sup>7</sup>			

Figure 4.3: Tibetan (Consonants)

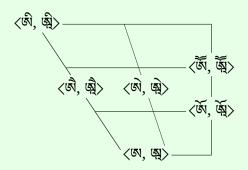


Figure 4.4: Tibetan (Vowels)<sup>7</sup>

# 4.1.3 | Mkhedruli

	Labial	Alveolar	Palatal	Velar	Glottal	Placeless
Nasal	<9>	⟨δ⟩				<° <sup>6</sup> >
Plosive		<თ დ უ>	<b 9="" ይ=""></b>	<6 8 B>	<g></g>	
Fricative		<β % ሁ>			<8>	
Approximant	<3>	<b>〈</b> რ〉	⟨Q⟩			

Figure 4.5: Mkhedruli (Consonants)

<sup>7</sup> is a filler letter. In slots with two elements, the second element is the coda form for consonants, and the long form for vowels.

4 | Orthography

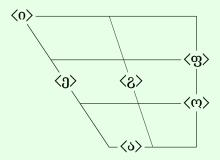


Figure 4.6: Mkhedruli (Vowels)

# 4.1.4 | Hacm

	Labial	Alveolar	Palatal	Velar	Glottal	Placeless
Nasal	<	<n></n>				<o^n></o^n>
Plosive		$\langle f^h \ \Omega \ f \rangle$	⟨lʰ y l⟩	⟨1 <sup>h</sup> φ 1⟩		
Fricative		⟨jʰlj⟩			<h></h>	
Approximant	<o></o>	<b>&lt;</b> 1>	<s></s>			

Figure 4.7: Hacm (Consonants)

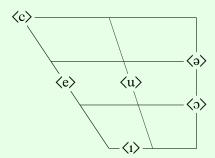


Figure 4.8: Hacm (Vowels)

# 5 | Syntax

# 5.1 | Sentence Structure & Word Order

Word order in Timah is primarily *subject-object-peripheral-verb* in independent clauses, and secondarily *verb-initial head-final* in dependent clauses. Only the verb must be present. In copular phrases (*see § 8.8*), the word order is always *subject-copula-attribute*, wherein the *attribute* is what is being associated with the subject of the copular phrase.

The *subject* is the thing that performs the verb; the verb may grammatically agree with the subject's *person*, *probability*, and *integrity*. It consists of one or more noun phrase(s).

The (direct) *object* is the thing that the verb is directly performed upon; the verb may agree with the salience, or level of affectedness, of the object. It, like the subject, consists of one or more noun phrase(s).

The *peripheral*, or indirect/oblique object, is the thing that the verb is indirectly performed upon. It is usually marked with a *postposition* (see § 7.4) or oblique case (see § 7.3.2) and consists of noun or postpositional phrase(s).

The *verb* is the action that is performed within a clause. It consists of one or more *verb phrase(s)*. Some verbs may not take a subject or object (*see § 8.2*).

Dependents are placed before their head unless noted otherwise.

### 5.1.1 | Dependent Clauses

Dependent clauses in Timah are introduced by one of three clausal conjunctions (a subset of *verbal conjunctions*, see § 10.1) or a *relative pronoun* (see § 7.2.3). They are placed between a dependent and independent clause.

They take *verb-initial head-final* word order, wherein the verb is placed initially and the head of the dependent argument is placed finally, with the background argument (i.e., the argument of the dependent clause that is not the head) placed medially. Thus, the word order of a dependent clause may be either *verb-object-peripheral-subject* or *verb-subject-object-peripheral*. In the former, the subject is the head; in the latter, the object is the head.

All dependent clauses are deranked (see § 8.5).

Relative clauses are placed before their head noun; only the subject and object may be relativized, and must take the same role in the relative clause as in the main clause.

- nəj : introduces basic dependent clause
- ten: introduces causal dependent clause
- motó: introduces consecutive dependent clause

The difference between using the conjunction  $n \ni j$  as a relativizer and using a relative pronoun (see § 7.2.3) is that of referentiality (see § 7.3.3). With non-referential heads and heads unmarked for referentiality,  $n \ni j$  is used as a relativizer. With referential heads, one of the relative pronouns (see § 7.2.3) is used as a relativizer.

5 | Syntax 20

# 5.2 | Alignment

The morphosyntactic alignment in Timah is a type of dually-split-ergative that is dependent of factors of *perfectiveness*, *valency*, and *volition*.

Perfectiveness describes the completeness of the verb, valency describes the number of arguments of the verb (in this case, a split between one or more than one), and volition describes the degree of control or intent concerning the verb (which is directly related to volitional classes, see § 8.3). In terms of alignment, these factors are binary, i.e., [perfective|non-perfective], [monovalent|multivalent], [volitional|non-volitional].

The *ergative-absolutive* alignment is used obligatorily in multivalent clauses wherein the subject is specified as perfective.

The *active-stative* alignment is used obligatorily in monovalent clauses wherein the subject is specified as perfective and non-volitional as well as in monovalent clauses wherein the subject is specified only as non-perfective.

Either alignment is possible when the subject in multivalent clauses is specified as non-perfective, as well as in monovalent clauses wherein the subject is specified as both perfective and non-volitional. Which alignment is used is pragmatically determined (*see § 14.1*).

			ErgAbs.	Either	ActStat.
	Pfv.	Vol.		×	
Mono.	1 ) v.	Nvol.			×
wiono.	Npfv.	Vol.			×
	търју.	Nvol.			×
	Pfv.	Vol.	×		
Multi.	1 ) / .	Nvol.	×		
14141111	Npfv.	Vol.		×	
	ı•μjv.	Nvol.		×	

Figure 5.1: Alignment

Timah is secundative, with the *theme* (object that is directed toward the recipient) of a trivalent verb (i.e., a polyvalent verb that takes three arguments, *see § 8.2*) acting as the peripheral and being marked by a postposition (*see § 7.4*), and the recipient acting as the object.

# 5.3 | Repeat Argument Dropping

In ergative-absolutive statements, a repeated absolutive argument can be dropped. In active-stative statements, a repeated subject can be dropped. Switching grammatical voice (*see § 8.5.3*) allows the opposing argument to be dropped.

# 5.4 | Clitics

What are termed *clitics* in Timah are actually phrasal affixes, i.e., they are affixes that attach to the initial or final component of their phrase. These are glossed and referred to as clitics, but may also be called *gruppenflexion* or the aforementioned phrasal affixes.

# 6 | Lexical Categories & Properties

# **6.1** | Lexical Categories & Roots

There is largely no lexical noun-verb distinction in Timah, i.e., most content words can act either as a noun or as a verb. The exceptions are the closed classes of *true nouns* and *true verbs*, collectively called *limitives* (see §§ 7.1 and 8.1). Non-limitives, collectively called *formatives*, are further divided into two root classes: *constant* and *mutable* roots.

### **6.1.1** | Constant Roots

*Constant* roots consist of one or more sequences of CV(F), and inflect primarily by affixation. These are more common than mutable roots, especially in true nouns and verbs.

### 6.1.2 | Mutable Roots

*Mutable* roots consist of a set of consonants. Each consonant within a consonantal root may have a tone associated with it.

Consonantal roots may take one of many *consonantal templates*, which describe the positioning of the individual consonants (marked by subscripts) in a root as well as tone-accepting positions (marked by superscripts). Long vowels may only occur in the environment \_{CV,#} (i.e., before a single consonant or at a word boundary). Floating tones migrate to the closest tonally-unmarked long vowel mora, if present.

 $(\sigma_a)$  and  $(\sigma_b)$  are the optional *leading* and *trailing syllables*, respectively. They are part of the root (i.e., not part of the template).  $(\sigma_a)$  consists of an onset, nucleus, and optional coda.  $(\sigma_b)$  consists of a nucleus and coda. The nucleus of  $(\sigma_b)$  is elided in the environment  $V_-$  (i.e., following a vowel).  $(C_a)$  and  $(C_b)$  are the optional *leading* and *trailing consonants*, respectively. If unmarked,  $C_1$  is reduplicated and epenthetically inserted as  $(C_a)$ .  $(C_b)$  is unaffected if unmarked.

- $\mathbf{1}: (\sigma_a)\underline{C}_1V^1\underline{C}_2V^2(C_b)(\sigma_b)$
- $\mathbf{2}: (\sigma_a)\underline{C}_1V^1\underline{C}_2$ - $^2(\sigma_b)$
- $\mathbf{3}$ :  $(\sigma_a)(C_a)V\underline{C_1}V^1\underline{C_2}V^2(C_b)(\sigma_b)$
- 4 :  $(\sigma_a)(C_a)V^1\underline{C_1}V^2\underline{C_2}(\sigma_b)$
- 5:  $(\sigma_a)(C_a)V^1\underline{C_1}\underline{C_2}V^2(C_b)(\sigma_b)$

Consonant templates are notated as  $\#[(C_a)V,...,V(C_b)]$ , wherein # is the template form number, and  $[(C_a)V,...,V(C_b)]$  is the optional leading and trailing consonants, and a list of the constituent vowels. Mutable roots are notated as  $(\sigma_a)\cdot C^T \cdot C^T \cdot (\sigma_b)$ , wherein C is a consonant and  $^T$  is an optional toneme ( $\acute{\circ}$  or  $\acute{\circ}$ ). These can be combined to form  $\#[(C_a)V,...,V(C_b)]\{C^T \cdot C^T\}$ 

If  $C_\#$  is in the environment  $\{C,\#\}$  (i.e., before another consonant or at a word boundary), it merges into a coda consonant.

$$\begin{array}{ccc} m \ n & & N \\ t^* \ k^* & & ? \\ t c^* \ s^* & & h \\ 1 \ j & & j \end{array}$$

Table 6.1: Coda Mergers

Additionally, if there is an illegal coda-onset cluster, it undergoes a coda reduction (see  $\S 2.6.1.1$ ).

# 6.2 | Integrity

Grammatical class, or *integrity*, in Timah is divided by compositional integrity, or completeness of the item. The *complete* class is further divided by animacy. Animacy distinction may not always occur in inflections.

- Complete; the item is viewed in its entirety; the item is sufficient, complete, whole; CMPLT
  - Animate; living, mobile, heat, abstract; ANIM
  - Inanimate; non-living, immobile, cold, concrete; INAN
- **Incomplete**; the item is viewed partially; the item is deficient, incomplete, condensed; NCMPLT Generally, these refer to the compositional integrity within the context of the situation.

TODO example sentences

# 6.3 | Probability

Grammatical number in Timah is divided not by amount, but *probability*, i.e., if the amount is likely or unlikely to change.

- Stable; the amount is not likely to change; STBL
- Unstable; the amount is likely to change; NSTBL
- Panstable; it is unknown if the amount is likely or unlikely to change; PNSTBL

Generally, these refer to the probability to change within the context of the situation. TODO example sentences

# 7 | Nouns

# 7.1 | True Nouns

*True nouns* consist of a set of nouns that cannot be used as verbs. True nouns can stand independent but can also be used to modify other nouns. See App. A for a list of true nouns.

# 7.2 | Pronouns

Pronouns are a subset of true nouns that take the function of another noun or noun phrase.

### **7.2.1** | Personal

Personal pronouns decline for probability, person, animacy (in 3<sup>rd</sup> person), case, and integrity.

			Agt.	Pat.	Erg.	Assoc.	Loc.	
	1		lə	ləhi	ján	s <sup>h</sup> aj	$t \boldsymbol{\varsigma}^h \boldsymbol{\grave{\varsigma}}$	
Stbl.	2		nó	cn	r	ıò	nə	
ow.	3	Anim.	tá?	táhi	tçàn	kéh	té	
		Inan.	h	an	ιφαιν	KCII		
	1		to	tò	t²áw		já	
Nstbl.	2		noó	nóò	n	ıéj	tçə	
143101.	3	Anim.	t²ó?	t²óhi	tc <sup>h</sup> on	kèè	k <sup>h</sup> əw	
	3	Inan.	t <sup>h</sup>	ON	ιφ ΟΝ	RCC	K OW	
(a) Complete								

Agt. Pat. Erg. Assoc. Loc. 1 ká ke tà? tçà ləj 2 nóó náw nəw no 3 sásá seh kín s<sup>2</sup>əw (b) Incomplete

Figure 7.1: Personal Pronouns

The *animate-inanimate* distinction in  $3^{rd}$  person pronouns can also be used as a *proximate-obviate* distinction.

TODO expand; example sentences

### 7.2.2 | Possessive

*Possessive* pronouns decline for person (of the possessor), integrity, and animacy (of the possessed). They indicate ownership and relation. They are placed after their head noun.

	Con	Incomplete	
	Animate	Inanimate	meompiete
1	lán	já	sèn
2	ná	náj	wan
3	táa	tçəá	kaá

Figure 7.2: Possessive Pronouns

# 7.2.3 | Relative/Interrogative

*Relative/interrogative* pronouns decline for integrity, probability, and domain. They are used to introduce relative clauses and to mark specific characteristics of a question.

		Personal	Location	Proportion	Manner	Reason
Complete	Stbl.	?əsè	k <sup>h</sup> ànaj	silə	sái	s <sup>h</sup> èh
Complete	Nstbl.	tansà	$\mathbf{k}^{ ext{h}}$ inhə	3113	saj	3 (11
Incomplete		?ehi	kéhe	sa?ií	səmɔ́ɔ	s <sup>h</sup> ɔjna

Figure 7.3: Relative/Interrogative Pronouns

### 7.2.4 | Demonstrative

*Demonstrative* pronouns decline for number, proximality, laterality, and deictic position. They express spatial and temporal position relative to the speaker (*see § 14.2.1*). Demonstratives of *proportion* and *manner* express to what extent and in what way, respectively.

They may modify a noun or pronoun, or stand on their own. They are placed after the noun they are modifying.

7 | Nouns 25

	Ante Sinister	rior Dexter	Posterior				
Prox.	tàá	kò	тэм	<u></u>	Anterior	Posterior	Indefinite
Med.	sáwhe	kàme?	iéha	Prox.	s <sup>h</sup> à	kə?	nəj
Dist.	k²i	tà	Jene	Med.	tòhe	2ankí	mále
Prox.	tçaà	?akə	wón	Dist.	sawa	Tanki	more
Med.	?it¢²a	kèho	míí		(b) I	ncomplete	
Dist.	tel	kí	11111				
	Med. Dist. Prox. Med.	Sinister  Prox. tàá  Med. sáwhe  Dist. k²i  Prox. tçaà  Med. ʔitç²a	Prox. tàá kò  Med. sáwhe kàme?  Dist. k²itò  Prox. tçaà ?akə  Med. ?itç²a kèho	Sinister Dexter  Prox. tàá kò mɔn  Med. sáwhe kàme?  Dist. k²itò  Prox. tçaà ʔakə wón  Med. ʔitç²a kèho míí	Sinister Dexter  Prox. tàá kò mɔn  Med. sáwhe kàme? jéhə Prox.  Dist. k²itò Med.  Prox. tçaà ʔakə wón Dist.  Med. ʔitç²a kèho míí	Sinister Dexter  Prox. tàá kò mɔn  Med. sáwhe kàme?  Dist. k²itò  Prox. tçaà ʔakə wón  Med. ʔitç²a kèho  Mií  Posterior  Anterior  Prox. sʰà  Med. tòhe  Dist. sawa  (b) I	Prox. tàá kò mɔn  Med. sáwhe kàme?  Prox. tçaà ʔakə wón  Med. ʔitç²a kèho  Prox. tyae rice  Prox. that rice  Anterior Posterior  Prox. shà kɔ?  Med. tòhe  ʔankí  Dist. sawa  (b) Incomplete

(a) Complete

		Complete	Incomplete
Prop.	Prox.	já	likòn
rrop.	Dist.	-	IIIOIV
Man.	Prox.	wój	misən
mui.	Dist.	kàn	11113511

(c) Proportion & Manner

Figure 7.4: Demonstrative Pronouns

The laterally-neutral distal demonstratives  $k^2it$  and tekí may be compounded with a medial or proximal sinister demonstrative (that matches in integrity) to form laterally-neutral medial and proximal demonstratives.

# (1) tàák²itò

tàá-  $k^2$ ità DEM.ANT.SIN.PROX.STBL- DEM.ANT.DIST.STBL this (in front of me)

- Proximal; able to be seen and heard by speaker; PROX
- Medial; able to be seen by speaker and/or seen and heard by listener; MED
- Distal; able to be seen by speaker; may be indistinct or non-visible; DIST
- Anterior; in front of the speaker; associated with the past; ANT
  - Sinister; to the left of the speaker; associated with volitional events; SIN
  - Dexter; to the right of the speaker; associated with non-volitional events; DEX
- Posterior; behind the speaker; associated with the future; POST

7 | Nouns 26

# 7.3 | Declensions



Figure 7.5: Declension Slots

### 7.3.1 | Noun Classes

Noun classes in Timah are separated into the groups *complete* and *incomplete*, which are associated with semantic wholeness or entirety of the noun ( $see \S 6.2$ ).

The *complete* group is further divided into the classes *animate* and *inanimate*. The *panstable* number is generally associated with mass nouns.

	Con	nplete	Incomplete
	Animate	Inanimate	meompiete
Stbl.	Ø-	kaw-, kɔ-	
Nstbl.	tə-	jé-	wí-
Pnstbl.	na(n)-	Ø-	

Figure 7.6: Noun Classes

### 7.3.2 | Cases

- Agentive: In active-stative clauses (see § 5.2), this marks the subject of a multivalent verb (see § 8.2) or the volitional subject of a monovalent verb. In ergative-absolutive clauses, this marks the object of a multivalent verb or the subject of a monovalent verb; AGT
- **Patientive** : In active-stative clauses, this marks the object of a multivalent verb or the non-volitional subject of a monovalent verb; PAT
- **Ergative**: In ergative-absolutive clauses, this marks the subject of a multivalent verb. This can also be used as an inalienable genitive; ERG
- **Associative**: This marks genitive and genitive-like relations, which can be further clarified using postpositions; ASSOC
- Locative : This marks physical and/or temporal location and movement that can be further clarified using postpositions; LOC

	Complete	Incomplete		Complete	Incomplete
Agt.	-Ø	-N-(◌́)	Agt.	-Ø	-té
Pat.	-h	-h-(◌́)	Pat.	-si	-sén
Erg.	-?	-ho	Erg.	-k²i	-k <sup>h</sup> o
Assoc.	-wɔ	-110	Assoc.	-kə	-K O
Loc.	-t¢ó	-je	Loc.	-t¢ó	-se
	(a) Oper	1		(b) Close	d

Figure 7.7: Cases

The associative and locative cases, collectively called *peripheral cases*, may be accompanied by a postposition (see § 7.4). In isolation, the associative takes the meaning of an alienable genitive (in contrast to the ergative, which may have an inalienable genitive meaning) and the locative takes on the meaning of a general locative or temporal (i.e., marking place or time).

### 7.3.2.1 | Declension of Mutable Roots

See § 6.1.2 for mutable root templates.

		Con	Incomplete	
		Animate	Inanimate	псопри
	Stbl.	<sub>1</sub> [0,i]	4[kɔɔ,e]	
Agt.	Nstbl.	3[tɔ,ɔ,i]	3[Ci,e,a]	3[wi,o,i]
	Pnstbl.	<sub>3</sub> [n		
	Stbl.	<sub>1</sub> [o,eh]	3[ka,e,ah]	
Pat.	Nstbl.	<sub>5</sub> [Cɔ,eh]	4[je,ə]	4[wee,e]
	Pnstbl.	<sub>3</sub> [naa		
Erg.		<sub>5</sub> [m	1 [Ce,o]	
Assoc.		<sub>1</sub> [C	1[00,0]	
Loc.		<sub>1</sub> [no	ee,ɔj]	<sub>2</sub> [e]

Figure 7.8: Declensions of Mutable Roots

### 7.3.3 | Article Enclitics

Articles in Timah decline for referentiality, visibility, and probability. They attach as enclitics to the final element of their head noun phrase.

*Referential* describes a specific instance of the class comprised of the given entity, while *non-referential* describes any instance of the class comprised of the given entity.

7 | Nouns 28

	Referential		Non-referential		
	Visible	Non-visible	Visible	Non-visible	
Stbl.	=mɔ́ɔ	=han	$=s^{2}i$	=t <sup>2</sup> <b>é</b> ?	
Nstbl.	= <b>k</b> ²ə	=mé	$=k^{h}\partial N$	=t¢áá	
Pnstbl.	=já		$=k^{h}$		

Figure 7.9: Article Enclitics

# 7.4 | Postpositions

There are two types of postpositions in Timah: those of *association* and those of *location*. These types are directly related to the *associative* and *locative* noun cases, as the Postpositional Object must take the respective case of its postposition.

### Associative Postpositions

- lí: accompaniment/use; basic theme of trivalent verb

 $-k^2e$ : lack of accompaniment/use; negatory theme of trivalent verb

- khono: intent of benefit/purpose; beneficial/purposive theme of trivalent verb

- sì: intent of reference/relation

t¢é: state of being

- khò: change of state

- kéh: similarity/comparison

- t<sup>2</sup> oka : causation

### Locative Postpositions

- tí: movement toward

- s<sup>h</sup>ì: movement away from

- mí: movement onto

tçòɔ : movement under

- thìsé: movement into

- sii?i: movement out of

- tçoli : beginning of movement/time

- ?an: end of movement/time

- kan?a: movement through, by way of, adjacent to

so?a: in front of/below/before

- sàkə: behind/above/after

- see?á: between, amidst, within

- sothe: surrounding, around, encompassing

7 | Nouns 29

### 7.5 | Noun Reduplication & Quantification

Many nouns (including pronouns) may optionally be fully reduplicated and attached to their root to indicate plurality or intensity. Reduplication to mark plurality is never used when a numeral is used to quantify the root noun.

```
(2) tçɔ̂?i
tçɔ̂?i
person
a person
```

(3) tçò?itçò?i tçò?i -tçò?i person -person

people

In some nouns, full reduplication may also be used to derive mass nouns.

(4) hòn hòn dog <u>a dog</u>

(5) hònhòn

hòn ~hòn dog ~dog a <u>pack of dogs</u>

Plural reduplication can be used in conjunction with integrity in order to quantify the arguments of a verb. Marking an argument as both plural and complete indicates that all participants performed the action together. Marking an argument as both plural and incomplete indicates that each of the participants performed the action separately.

```
(6) ketehketeh tálajkálatá
```

```
\varnothing- keteh ~keteh -\varnothing t\acute{=} laj- kála CMPLT.ANIM.STBL- child ~child -AGT.CMPLT 3.stbl.cmplt.anim.agt= PFV.REAL- fish -t\acute{a} -AV.NINVST the children all went fishing (collectively)
```

(7) wíketehketehté sálajkálatá

```
wí- keteh -keteh -té sá= laj- kála -tá
NCMPLT- child -child -AGT.NCMPLT 3.ncmplt.agt= PFV.REAL- fish -AV.NINVST
the children each went fishing (individually)
```

### 8.1 | True Verbs

*True verbs* consist of a set of verbs that cannot be used as nouns. See App. B for a list of true verbs.

# 8.2 | Valency Classes

There are four main valency classes in Timah: avalent, monovalent, ambivalent, and polyvalent.

- Avalent; zero arguments; AVAL
- Monovalent; zero or one arguments; MVAL
- Ambivalent; one or two arguments; BVAL
- Polyvalent; two or more arguments; PVAL

Ambivalent and polyvalent verbs that take exactly two arguments are grouped as *divalent*, polyvalent verbs that take exactly three arguments are grouped as *trivalent*, and ambivalent and polyvalent verbs that take two or more arguments are grouped as *multivalent*. These terms (*divalent*, *trivalent*, *multivalent*) are used only in analysis and meta-grouping.

Copulae (see § 8.8) are considered monovalent.

# 8.3 | Volitional Classes

Verbs are inherently classed as either *volitional* or *non-volitional*. These classes determine the case of the subject in monovalent verbs in active-stative-aligned clauses. They denote inherent intent of the agent, regardless of the situational intent. They directly affect alignment (*see § 5.2*).

- Volitional; denote an action that is intentionally performed by the subject; VOL
- Non-volitional; denote an action that is accidentally performed by the subject; NVOL

# 8.4 | Verbal Reduplication

Reduplication is more prominent in verbs than in nouns. Full reduplication of the root can optionally be used to indicate greater intensity, but partial reduplication is used in verbal paradigms.

TODO example sentences

 $|R_{i}^-|$  indicates full reduplication of the initial syllable, and  $|R_f|$  indicates full reduplication of the final syllable.

# 8.5 | Conjugations

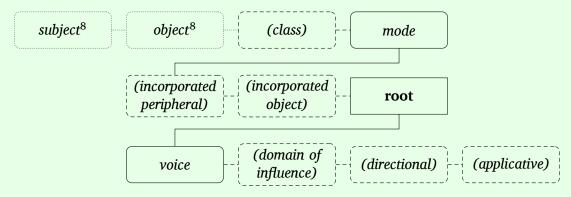


Figure 8.1: Conjugation Slots

In dependent clauses, verbs are deranked—they take a more limited inflection template.



Figure 8.2: Deranked Conjugation Slots

### **8.5.1** | Pronominal Proclitics

*Pronominal proclitics* are obligatorily appended to verb phrases and must agree with their respective argument. Pronouns are dropped when pronominal proclitics are present.

			Agt.	Pat.	Erg.					
	1		lə=	le(h)=	jớ(N)=					
Stbl.	2		nó=	no=	nò=			Agt.	Pat.	Erg.
0.00	•	Anim.	tá=	té(h)=		_				
	3	Inan	ho(		t¢à(n)=	-	1	ká=	tà(?)=	tà(?)=
		Inan.	na(	N)=			2	n၁ဴ=(ဴ)	nəw=, no=	no=
	1		to=	tò=	t²áw=, t²́5=		۱ '	113-(0)	110 w -, 110 -	110-
							3	sá=	se(h)=	kí(N)=
Nstbl.	2		n၁=(ဴ)	ná=(`)	néj=, ní=		'	-		
างรเบเ.		Anim.	t²ó=	t²á(h)=				(b	) Incomplete	
	3	Aituit.	ι 0-	ι θ(11)-	t¢ho(N)=					
		Inan.	t <sup>h</sup> ວ(	(N)=	, , ,					
		(6	a) Complet	re						

Figure 8.3: Pronominal Proclitics

<sup>&</sup>lt;sup>8</sup>Subject and object slots are optional when the corresponding argument is not present.

### 8.5.2 | Noun Incorporation

In certain verbs, object and peripheral nouns may be *incorporated*, or attached to, the verb. The incorporated noun may be phonologically reduced or even undergo suppletion. They are always placed directly before the verb root.

When an object noun is incorporated, the meaning of the phrase becomes more general, e.g., <u>he chops the tree (a specific tree)</u> vs. <u>he chops trees (as a profession, in general)</u>. Furthermore, an incorporated noun is never in focus, allowing other parts of the statement to be emphasized.

Likewise, incorporated peripheral nouns are never in focus, but do not necessarily generalize the phrase. Incorporation of peripheral nouns, especially instruments, is common.

Additionally, the incorporated noun may optionally be marked with a noun class prefix (*see § 7.3.1*). If it is a peripheral object, it may take an associative or locative case marker. The incorporated noun is not marked for anything else.

TODO example sentences

### 8.5.3 | Voice & Investment

The verbal voices in Timah are symmetric, i.e., they do not alter the valency of the verb, only the arguments' roles.

Voice indicators also inflect for the *investment* of the subject. This indicates that the subject has some sort of interest or stake pertaining to the action, e.g., give (uninvested) vs. <u>loan (invested)</u>.

	Uninvested	Invested
Actor	-tá	-t¢à
Undergoer	-s²5́5	-jớà
Correlative	-mớ	tè

Figure 8.4: Voice

The *correlative* voice indicates that both the agent and patient are in some way related; it is often used for reflexive constructs, but can also be used for reciprocal constructs.

#### (8) ləmólámótè

```
lə= mólá -mótè
1.STBL.AGT.CMPLT= wash -CV
I wash myself
```

#### (9) lələmólámótè

```
lə= nólá -mótè
1.STBL.AGT.CMPLT= 1.STBL.AGT.CMPLT= wash -CV
we wash ourselves
```

#### (10) kákámólámótè

```
ká= ká= mólá -mótè
1.AGT.NCMPLT= 1.AGT.NCMPLT= wash -CV
we wash each other
```

#### 8.5.4 | Domain of Influence

The *domain of influence* describes the area in which the object is able to be affected by the subject. With certain verbs this is fairly straightforward, e.g., sensory verbs—the domain of influence describes the area in which the subject can sense the object.

Verbs conjugate via suffixes for the presence of the object inside or outside the domain of influence of the subject.

- ó-N, -ná? : inside the domain of influence; ∈DOI
- -lóà : outside the domain of influence; ∉DOI

Only multivalent verbs in either the actor or undergoer voices may be marked for domain of influence, i.e., avalent and monovalent verbs, and verbs in the correlative voice may not take domain of influence marking.

When verbs in which the object is understood to be inherently inside or outside the domain of influence take domain of influence marking, it indicates the success or failure of the verb.

### (11) hònmóo jéntélaj?anátálóò

```
\oslash- hòn -\oslash = mɔ́ɔ jə́n= tə́= CMPLT.ANIM.STBL- dog -CMPLT.AGT =REF.VIS.STBL 1.STBL.ERG= 3.STBL.ANIM.AGT= laj- ?aná -tá -lɔ́ò PFV.REAL- hit -AV.NINVST -\notinDOI I (tried to) hit the dog (and failed)
```

When pertaining to abstract concepts, the domain of influence instead describes the perceived attainability of the object (i.e., the subjective probability of it being able to enter the domain of influence).

#### (12) hònsis<sup>2</sup>i lətéhənótçàn

```
\bigcirc- hòn -si = s?i lə = té = CMPLT.ANIM.STBL- dog -CMPLT.PAT = NREF.VIS.STBL 1.STBL.AGT = 3.STBL.ANIM.PAT = hɔnɔ́ -tçà -n want -AV.INVST -\inDOI I want a dog (and believe this to be attainable)
```

#### (13) hònsis<sup>2</sup>i lətéhənátçàláà

```
\oslash- hòn -si =s²i lə= té= CMPLT.ANIM.STBL- dog -CMPLT.PAT =NREF.VIS.STBL 1.STBL.AGT= 3.STBL.ANIM.PAT= hɔnɔ́ -tçà -lɔ́ɔ̀ want -AV.INVST -\notinDOI I want a dog (and believe this to be unattainable)
```

### 8.5.5 | Expressive Moods

There are five moods in Timah that are independent from basic moods. These are called *expressive moods*, and are placed at the beginning of a clause. They are considered *irrealis*.

TODO example sentences

- tçó: Imperative; commands, wishes, desires; IMP
- sha: Interrogative; questions, requests; INT
- təj : Polar Interrogative; yes/no questions; tag questions; POL
- kì : **Precative**; polite requests and commands; PREC
- t<sup>2</sup>5N : **Suggestive**; suggestions, admonitions, warnings; SUG

### 8.5.6 | Mood & Aspect

*Mood* and *aspect* (collectively called *mode*) are optionally marked using fused mood-aspect prefixes. All moods (expressive, basic, and evidential) are collectively called *modals*.

	Imperfective	Habitual	Perfective	Experiential	Iterative
Realis	Ø-	k <sup>2</sup> a(?)-	laj-, le-	jíhi-	$R_i^{\sim}k^2a(?)$ -
Affirmative	~R <sub>f</sub>	$k^{2}a(?)-\sqrt{R_{f}}$	laj- $\sqrt{R_f}$ , le- $\sqrt{R_f}$	$jihi\text{-}\sqrt{\sim}R_f$	$R_i \sim k^2 a(?) - \sqrt{R_f}$
Irrealis	tɔ(?)-	tew-, tə-	haj-, he-	já-	R <sub>i</sub> ~tew-, R <sub>i</sub> ~tə-
Conditional	?0	)-	né(h)-	ja-	$K_1$ tew-, $K_1$ te-
Hypothetical	tàj-,	tè-	kʰà-		R <sub>i</sub> ~tàj-, R <sub>i</sub> ~tè-

Figure 8.5: Aspect & Mood

The realis and affirmative moods are classed as realis, while the irrealis, conditional, and hypothetical moods are classed as irrealis.

#### · Moods

- **Realis**: event is known to be real; REAL
- Affirmative : event is emphasized as being real; AFF
- Irrealis: event is unknown or known to be unreal; IRR
- Conditional: event is dependent upon other events; COND
- Hypothetical: event is unknown or counterfactual, but possible; HYP

### Aspects

- **Imperfective**: event is incomplete; NPFV
- Habitual: event is repeated across multiple timeframes; HAB
- Perfective : event is complete; PFV
- Experiential: event is experienced; EXP
- Iterative : event is repeated within the same timeframe; ITER

### 8.5.6.1 | Conjugation of Mutable Roots

See  $\S$  6.1.2 for mutable root templates.

TODO redo this

		Actor	Undergoer	Correlative
Realis	Npfv.	1[0,0]	4[joo,e]	<sub>5</sub> [Cii,ɔ]
	Hab.	<sub>3</sub> [he,əə,e]	<sub>2</sub> [i]	<sub>3</sub> [Ca,ee,a]
	Pfv.	4[wi,a]	<sub>4</sub> [Cə,i]	<sub>1</sub> [ee,ə]
	Exp.	<sub>2</sub> [o]	<sub>1</sub> [aa,e]	4[mɔ,ə]
	Iter.	4[Cee,a]	<sub>2</sub> [ə]	<sub>2</sub> [a]
Irrealis	Npfv./Hab.	<sub>2</sub> [a]	3[se,i,a]	<sub>5</sub> [k²oo,e]
	Pfv./Exp.	<sub>1</sub> [ə,ɔɔ]	<sub>5</sub> [na,aa]	<sub>5</sub> [li,ee]
	Iter.	<sub>5</sub> [Cə,i]	4[Cee,i]	<sub>1</sub> [i,ə]

Figure 8.6: Conjugation of Mutable Roots

Additionally, there is a set of affixes that inflect mutable roots.

- ~R<sub>f</sub> : **Affirmative**; attaches to realis form
- ?o-: Conditional; attaches to irrealis form
- tàj-, tè-: Hypothetical; attaches to irrealis form
- · -tçà: Invested; attaches to actor or undergoer form

#### 8.5.7 | Evidential Moods

Timah optionally marks four levels of evidentiality (as well as a *quotative*), which express how the information was gathered. Evidentiality markers are placed before their head verb. They are considered *realis*.

TODO example sentences

- khekhì: **Witness**; knows of event directly; WIT
- səsən: Evidential Inferential; knows of event via evidence; EVID
- tonke : **Anecdotal Inferential**; knows of event via prior experience(s); ANEC
- m
   <sup>´</sup>
   <sup>´</sup>

   <sup>´</sup>

   <sup>´</sup>
   <sup>´</sup>

   <sup>´</sup>
- ?aj: Quotative; marks quoted speech, dialogue; can be used with other evidentials; QUOT

### 8.5.8 | Directional Specifiers & Applicatives

The *venitive* and *andative* suffixes, collectively called *directional specifiers*, are commonly used with verbs of movement, such as wś move, walk, shɔj carry, give/take, and others. These are placed directly after the verb root.

TODO example sentences

- -tí: Venitive; motion toward; VEN
- -shì: Andative; motion away from; AND

Applicatives are valency-increasing operations that switch the syntactic position of the peripheral with that of the object. They are formed by appending an applicative suffix to the verb, which can be used in tandem with the venitive and andative markers in order to specify direction or efficiency. These are placed directly after the verb root and, if present, the directional specifier.

TODO example sentences

- -lí: Relational; accompaniment; REL
- -khòn: **Beneficial**; intent of benefit/purpose or reference/relation; BEN
- -t<sup>2</sup>>?: **Causal**; causation, final causation; CAUS
- -kéh : Complemental; similarity/comparison, state of being; COMTL
- -tçò: Locational; abolsute physical or temporal location and movement; LOCNL
- -sò?: **Positional**; relative physical or temporal location and movement; POSNL

The applicatives -lí and - $k^h$ òn may be used to invert the secundative construction (see § 5.1), making it indirective. This allows the theme to be relativized (see § 5.1.1).

Further specifications can be made by supplementing the applicative suffix with a postposition (see § 7.4) placed after the object.

### 8.6 | Verbal Classifiers

*Verbal classifiers* are used with certain verbs to describe characteristics of the object, specifically integrity and *category*. It is most often used with verbs of handling.

TODO example sentences

	Con	Incomplete		
	Animate	Inanimate	Incomplete	
Standing	?i-	tàj-, tè	sahi-	
Sitting	maa-	tuj, te	mií-	
Lying	t¢è-	tí(n)-	11111	
Generic	k²áj	?ɔj-, ?ə-		

Figure 8.7: Verbal Classifiers

- Standing; entity is taller than it is wide; STA
- Sitting; entity is as tall as it is wide; SIT
- Lying; entity is wider than it is tall; LNG
- Generic; unspecified category; GEN

8 | Verbs 37

### 8.7 | Serial Verb Constructions

A *serial verb construction* (SVC) in Timah is a verb phrase that contains two or more verbs that, within the context of their clause, share the same inflections and one or more arguments. They may be *continuous* (the constituent verbs are placed adjacent to each other) or *discontinuous* (the constituent verbs are separated by an argument.)

*Continuous* SVCs obligatorily share the same subject and object, while *discontinuous* SVCs only obligatorily share the same subject (i.e they may take different objects).

TODO expand on specific SVCs

#### 8.7.1 | Perceptive

Perceptive SVCs are always discontinuous, and express sensory interaction.

#### 8.7.2 | Directive

Directive SVCs may be either continuous or discontinuous, and express movement or position.

#### 8.7.3 | Capacitive

Capacitive SVCs are always continuous, and express ability, attitude, or causality.

### 8.8 | Copulae

Timah copulae are a subset of true verbs that are used to connect arguments.

Copulae only inflect for person and mood/aspect (*see §§ 8.5.1 and 8.5.6*), and the constituent arguments within a copular phrase (i.e., the subject and attribute) both take the (unmarked) agentive case (the attribute is marked like the object in copular person agreement).

As noted in § 5.1, all copular phrases have *Subject-Copula-Attribute* word order. Copulae are always considered monovalent, although pronominal proclitics agree identically as in multivalent verbs (i.e., the attribute is treated as the object in terms of agreement).

Copulae are divided into three classes: *essential* (ESSNT), *existential* (EXIST), and *referential* (REF). These are further divided into the subclasses *assertive* (ASSRT), *negative* (NEG), and *revelatory* (REV).

The essential copulae express nominal and descriptive predication. The existential copulae express locational, existential, and possessive predication. The referential copulae, while traditionally classed as such due to how they pattern, do not act like the other two classes of copula. They may either refer to the inherent action of the subject or, if present, to the directly preceding verb. Additionally, referential copulae cannot refer to preceding copulae.

The assertive subclass expresses the basic form of the copula. The negatory subclass negates the copula. The revelatory subclass expresses surprise, doubt, and/or interest, and suppletes the assertive form of a copula when any irrealis modal is present (see §§ 8.5.5 to 8.5.7).

#### Essential

kew : Assertivekəlé : Negative?owó : Revelatory

8 | Verbs 38

### • Existential

nén : Assertivenéjé : Negativetəjə : Revelatory

### • Referential

thèh: Assertive
 thèné: Negative
 ?əjtça: Revelatory

## 9 | Descriptives & Derivation

There are twelve descriptives (which function as adjectives or adverbs) in Timah. They are placed before their head noun or verb. All descriptives may optionally be fully reduplicated to indicate greater intensity.

• tçhàné : good, positive; full

• sìnkà : bad, negative; empty

• semó?: fast; loud; hard, rough

• 15 : slow; quiet; soft, smooth

• khok²o: big, strong; many

• t¢hi: small, weak; few

• son : short, wide; feminine

• ?in : long, narrow; masculine

tçós<sup>h</sup>a: white, light; fresh, new

• káj : warm (color); hot, dry

• sòtçe : cool (color); cold, wet

• thawsá: black, dark; stale, old

Order of descriptives is as listed from top to bottom, i.e., *quality-agility-magnitude-length-color*.

## 9.1 | Dyadic Color Terms

In addition to the four main color terms, there exists a set of terms that describe the transition from one color to another, called *dyadic color terms*.

		A			
		white	warm	cool	black
	white	×	két¢óh	sòt¢²áh	s <sup>h</sup> át¢ <sup>h</sup> á
Ω	warm	t¢ókʰáj	×	sòk²áj	sáké
20	cool	tçósè	két¢²è	×	t <sup>h</sup> ósòh
	black	t¢ót <sup>h</sup> ó	kétçá	sàt¢ <sup>h</sup> éw	×

Figure 9.1: Dyadic Color Terms

### 9.2 | Comparison

Comparative constructions are formed by appending a postposition after the descriptive in a copular clause. The recipient of comparison is placed after the subject, i.e., *Subject-Recipient-Copula-Attribute*.

- s<sup>h</sup>ì : positive comparison
- míh : equative comparison
- tí: negative comparison
- (14) ketehmóɔ tçò?itçó s<sup>h</sup>ìmóɔ tókew tçós<sup>h</sup>a

```
\oslash- keteh -\oslash = m50 \oslash- tç\eth?i
ANIM.STBL.CMPLT- child -AGT.CMPLT = REF.VIS.SG ANIM.STBL.CMPLT- person
-t¢\acute{o} s^h^1 = m50 t^2 kew t¢\acute{o}s^ha
-LOC.CMPLT ABL = REF.VIS.SG 3.STBL.ANIM.AGT.CMPLT= COP.ESSNT.ASSRT new
the child is younger than the man
```

Superlative constructions are formed by appending *séè* <u>all</u>, <u>every</u> before the recipient, or using it in place of the recipient. Excessive constructions are formed by omitting the recipient entirely.

```
(15) ketehmóɔ séè (tçòʔitçó) sʰì(móɔ) tákew tçósʰa

Ø- keteh -Ø = móɔ séè (Ø- tçòʔi

ANIM.STBL.CMPLT- child -AGT.CMPLT = REF.VIS.SG all (ANIM.STBL.CMPLT- person
-tçó) sʰì = (móɔ) tá= kew tçósʰa
-LOC.CMPLT) ABL = (REF.VIS.SG) 3.STBL.ANIM.AGT.CMPLT= COP.ESSNT.ASSRT new
the child is the youngest of all (men)
```

(16) ketehmóo s<sup>h</sup>ì tókew tcós<sup>h</sup>a

```
\oslash- keteh -\oslash = m50 s<sup>h</sup>ì t5 = ANIM.STBL.CMPLT- child -AGT.CMPLT = REF.VIS.SG ABL 3.STBL.ANIM.AGT.CMPLT = kew tçós<sup>h</sup>a COP.ESSNT.ASSRT new the child is very/too young
```

## 9.3 | Derivation

Derivation is possible by appending a descriptive onto a noun or verb as a prefix. Additionally, there exists a small closed class of various derivational affixes, as well as specific processes that utilize sound symbolism.

#### **Prefixes**

• tòj-, tè- : opposite, reverse

• tchà(?)-: person, profession

• lə(h)-(\( \)): place; time

• kósó- : homorganic group/mass

• k<sup>h</sup>e-: heterorganic group/mass

• tçá(N)-(`): prevent, stop, interrupt

• sáj-, sé-: pretend, mimic, falsify

• sóo-: cause, source

• ?ikà-: expected accompaniment

#### **Suffixes**

• -tç<sup>2</sup> : attempt, try

• -tàj : product, result

• (´)-lit´ɔ : within a period of time

• -k²á?e : tool, instrument

• (`)-s<sup>2</sup>oo: abstraction, mass

• -tçì : animals, inedible plants

• -mitàn: edible plants, food

· -kosée : pejorative, derogatory

• -tçì : previous, former

• (6)-nə: eventual, later

### 9.3.1 | Sound Symbolism

Sound symbolism can also be used as a means of derivation, using processes of alteration.

*Magnitude* is associated with the process of *strength alteration*, wherein certain consonants are classed as either *strong* or *weak*. Strong forms are associated with greater magnitude, while weak forms are associated with lesser magnitude.

Strong		Weak
t*	$\leftrightarrow$	s*
t¢*	$\rightarrow$	J
k*	$\leftrightarrow$	t¢*
?	$\leftrightarrow$	h

Figure 9.2: Magnitude

*Movement* is associated with the process of *nasal alteration*, wherein certain consonants are classed as either *oral* or *nasal*. Oral forms are associated with slower movement, while nasal forms are associated with faster movement.

Oral		Nasal
w	$\leftrightarrow$	m
1	$\leftrightarrow$	n
j	$\rightarrow$	11
-w, -j <sup>9</sup>	$\rightarrow$	-N <sup>9</sup>
66	$\leftarrow$	14

Figure 9.3: Movement

<sup>&</sup>lt;sup>9</sup>These are the coda phonemes /w j N/.

## 10 | Function Words

### **10.1** | Conjunctions

There are two groups of conjunctions in Timah: *nominal* and *verbal*. *Nominal* conjunctions connect nouns, noun phrases, and descriptives; *verbal* conjunctions connect verbs and verb phrases, and can be used to introduce clauses.

#### Nominal

- ní: presents non-contrast

- ?ika: presents contrast

- teh: presents alternative

#### Verbal

- nəj : presents non-contrast; introduces basic (dependent) clause

- ten: presents rationale, causality; introduces causal (dependent) clause

- motó: presents consequence; introduces consecutive (dependent) clause

- ?ihi: presents contrast

- kàh: presents alternative

### **10.2** | Satellite Conjunctions

Conjunctions may be used initially or finally in a statement as discourse markers.

- ní: indicates weak affirmation of the statement
- ?ika : inquires weak affirmation of the listener's experience
- teh: indicates surprise, doubt, or interest toward the statement
- nəj: indicates strong affirmation and/or discourse-completion of the statement
- ten: indicates agreement with the listener
- motó: inquires strong affirmation of the listener's experience
- ?ihi : inquires contrast of the listener's experience to the speaker's statement
- kàh: requests more information from the listener

10 | Function Words 44

### 10.3 | Affirmatory & Negatory

#### Affirmatory

- sén : **Affirmatory-Basic**; affirms with no regard to evidence
- $s^h\grave{e}$  : Affirmatory-Witness; affirms via visual evidence
- shà: Affirmatory-Sensory; affirms via non-visual evidence
- s<sup>2</sup>ó: **Affirmatory-Evidential**; affirms via direct evidence
- tç<sup>2</sup>én : **Affirmatory-Anecdotal**; affirms via prior experience(s)
- jón : **Affirmatory-Reportative**; *affirms via indirect evidence*

#### Negatory

- káj: Negatory-Basic; negates with no regard to evidence
- khàj: Negatory-Sensory; negates via sensory/direct evidence
- wáj : Negatory-Reportative; negates via indirect evidence

# 11 | Numerals

Timah uses a base-60 numeral system. This is not a pure base-60 system orthographically, as it uses base-12 as a sub-base to construct the constituent numeric symbols.

0	?i	12	tçíha	24	SÍN	36	sekó	48	t <sup>h</sup> àse	
1	$t^h\grave{e}$	13	t¢³əə	25	kon	37	hino	49	$s^h i i$	
2	nin	14	nə̂?ah	26	?əəha	38	$s^h$ $\partial$ $\partial$	50	s²óo	
3	kə	15	$s^ha$	27	t <sup>h</sup> aà	39	tè	51	$k^h$ $i$ j	
4	$\mathbf{k}^{\mathrm{h}}\mathbf{\hat{i}}$	16	$s^h$ oh	28	tòo	40	k²ò?	52	lś?en	
5	t¢ <sup>h</sup> ajá	17	$k^{\scriptscriptstyle h} e\acute{e}$	29	tçən	41	sómán	53	t <sup>h</sup> òn	
6	soo	18	jo	30	s <sup>h</sup> ìh	42	has <sup>h</sup> è	54	tçəh	
7	sáh	19	tàn?a	31	s²ə	43	kè	55	sò	
8	?ɔsə	20	t¢ <sup>h</sup> à	32	nój	44	$k^{h}o$	56	taloh	
9	$\mathbf{k}^{\mathrm{h}}\mathbf{i}\mathbf{i}$	21	tək²o	33	sàtçíí	45	lato	<i>57</i>	jíli	
10	t¢é	22	?ətç²ó	34	satça?	46	tçəh	58	t <sup>h</sup> à	
11	láha	23	tək <sup>h</sup> o	35	$tcheq^{h}$ on	47	$c^{h}$ tiís	59	hent <sup>h</sup> e	

Figure 11.1: Numerals

# 12 | Register & Kinship Terms

### 12.1 | Register

Register terms in Timah are used to describe the social relationship between people.

	Inferior			Equivalent			Superior		
	Younger	Equal	Elder	Younger	Equal	Elder	Younger	Equal	Elder
Formal	tèh	ah	waj	kát¢ <sup>h</sup> è	s <sup>h</sup> ò	$s^h$ aw	lét¢a?	jó?oh	sako
Polite	ləj	t¢ <sup>h</sup> aw	tçoo	sáhkəh	3 0	wo?ɔ	k <sup>h</sup> emé	mii?í	Sako
Familiar	10)	t¢ <sup>h</sup> ɔs <sup>h</sup> ə	to?a	k <sup>h</sup> a	ì	tʰìiʔɔj	t <sup>h</sup> ìt¢	ÍN	t <sup>h</sup> è
Pejorative		kəj		ket¢ <sup>h</sup> ò			k <sup>h</sup> èle		

Figure 12.1: Register Terms

## 12.2 | Kinship

 $\it Kinship$  terms are used to describe the familial relationship between people. TODO chart

### 13.1 | Ideophonemes

There exists a set of phonemes in Timah that can appear only in ideophones. These are called *ideophonemes*, and they cannot cluster (i.e., codae /? h N w j/ may not precede them). Basic consonants can appear in ideophones, but ideophones are restricted to a reduced vowel inventory.

	Labial	Alveolar	Dorsal			
Nasal	<sup>m</sup> b	<sup>n</sup> d	<sup>ŋ</sup> g~ŋ			
Liquid	ВВ		$\mathring{\mathbf{K}}_{\sim}\chi \ \mathbf{K}_{\sim}\mathbf{R}$			
(a) Pulmonic						

	Dental	Alveolar	Lateral
Tenuis	1	!	
Aspirate	h	<b>!</b> h	$\ ^{\mathbf{h}}$
Nasal	ŋ	υ <b>i</b>	ŋ
Glottal	ŋ ?	υ <b>i</b> 3	ŋ  ?

(b) Non-pulmonic

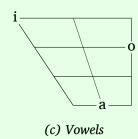


Figure 13.1: Ideophonemes

Additionally, the syllabic nasals /m n n/m also appear, but only in isolation.

## 13.2 | Ideophones

There are three types of ideophones in Timah: *phonomimes*, *phenomimes*, and *psychomimes*. See App. D for a list of ideophones.

- Phonomimes; imitate sounds directly; PHON
- Phenomimes; imitate sounds associated with tangible states and conditions; PHEN
- Psychomimes; imitate sounds associated with intangible states and conditions; PSYCH

## 14 | Semantics & Pragmatics

### **14.1** | **Topic & Focus**

Topic and focus are important elements of discourse in Timah. Under certain circumstances (see § 5.2), the presence of explicit topic-fronting and/or focus-marking can change which alignment is used. Variably-aligned statements default to the active-stative alignment, but take the ergative-absolutive alignment when the speaker wishes to emphasize or topicalize the subject.

In general, the topic marks known or old information, while the focus marks unknown or new information.

#### 14.1.1 | Topic & Focus Marking

The *topic* of a clause can be explicitly marked by changing the alignment of a variably-aligned clause to ergative-absolutive. In invariably-aligned clauses, the topic is explicitly marked by fronting the topicalized argument.

The topic strongly correlates to the subject of the clause, but this is not always the case. If the speaker wishes to emphasize the object, the arguments must be switched and the verb put into the undergoer voice (see § 8.5.3).

The *focus* of a clause can be explicitly marked by appending one of three *focus markers* before the head of the phrase containing the focus.

TODO example sentences, expand on topic/focus stuff

- k<sup>2</sup>ità : focuses the entire phrase
- tàá: focuses the head of the phrase
- kò: focuses the dependents of the phrase

The specific focus will always be intonationally emphasized.

### 14.2 | **Deixis**

#### 14.2.1 | Spatial/Temporal Deixis & Domains

The deictic space of Timah is divided into three main domains: *anterior-sinister*, *anterior-dexter*, and *posterior*.

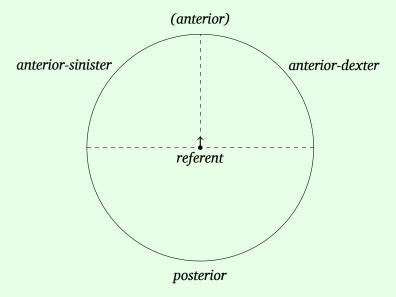


Figure 14.1: Deictic Space

## 15 | Speech Registers

There exists many special *speech registers* in Timah. While identical in grammar, these registers differ in lexicon content and size.

- Nuptial Registers; used by people who are or have been in an intimate relationship
  - Internal Subregister; used when speaking directly to one's intimate partner
  - External Subregister; used by people who are or have been in a relationship, with no regard to the status of the listener
  - Avoidance Subregister; used when speaking to and around one's previous intimate partners
- Foreign Registers; used when around foreigners, i.e., non-Khokan people
  - Positive Subregister; used when speaking to foreigners that are considered favorable by the speaker
  - Negative Subregister; used when speaking to foreigners that are considered hostile by the speaker
- Vital Registers; used when hunting, gathering, and/or observing certain animals or plants
  - Shallow Subregister; used when hunting and observing inherently terrestrial animals
  - Deep Subregister; used when hunting and observing inherently aerial and/or aquatic animals
  - Passive Subregister; used when gathering plants and collecting spoils

TODO all of this

## **Appendices**

Within these dictionary appendices, entries are notated as word (reduced form): (inherent inflections/classes) definition. Arguments in parentheses do not appear for all entries.

Entries followed by a superscript *NI NX NA FP FN VS VD VP* correspond to the nuptial internal, nuptial external, nuptial avoidance, foreign positive, foreign negative, vital shallow, vital deep, and vital passive registers, respectively (*see Ch. 12*).

TODO all of this

## A | True Nouns

- tçɔ̂ʔi (tç²è) : (ANIM) person, human, humanoid creature
- kon: (INAN, PNSTBL) place, location, area
- keteh (k<sup>7</sup>eh), tçatih<sup>FP</sup>: (ANIM) baby, child, young person
- sisì (s²iì) : (ANIM, PNSTBL) water, air; liquid, fluid; motion, movement
- neh : (INAN) rock, stone, solid; immobility, inactivity
- tçì : (ANIM) animal, creature, beast

- tçasí : (INAN) tree, plant; foliage, vegetation
- sóósa : (INAN) container, vessel, receptacle
- k<sup>2</sup>5?e: (INAN) tool, instrument, weapon
- thìló: (ANIM) body; flesh, meat (living); physical form; body language, behavior
- thè?: (INAN) corpse; flesh, meat (dead/raw); death
- khàtí: (ANIM) flesh, meat (cooked); meal, feast

## **B** | True Verbs

- wớ : (VOL, BVAL) move, walk, come/go
- $s^h \flat j$  : (VOL, PVAL) carry, give/take
- niwi: (VOL, BVAL) consume, eat, drink
- tçɔ́j : (VOL, PVAL) speak, write, communicate
- $k^h$ ajtè : (VOL, BVAL) hear, see, directly sense; read, understand

- hasì : (VOL, BVAL) smell, taste, indirectly sense
- jékə : (VOL, BVAL) feel, sense; know
- se?mɔ́: (VOL, PVAL) make, cause, do
- kho: (NVOL, AVAL) occur, happen, exist

## **C** | Dictionary

### m

- míshoh: (ANIM) n. aversion, repulsion, disgust ‡ (NVOL, BVAL) v. be averse, repulsed, disgusted
- melə: (INAN) *n.* bread; food made from grain; grain ‡ (VOL, MVAL) *v.* prepare/eat bread; prepare grain
- mólá: (INAN) n. wave, gust; flow, movement, direction ‡ (VOL, BVAL) v. make wet; wash, clean; push, move

#### l n

- níjò: (ANIM) n. awareness of something dangerous, premonition; warning, caution, advice; omen, prophecy; foresight ‡ (VOL, BVAL) v. warn, caution, advise; prophesize, foresee, predict
- nétçè : (INAN) n. solid food ‡ (VOL, MVAL) v. prepare solid food
- nómo : (ANIM) *n*. tooth; bite ‡ (VOL, BVAL) *v*. bite, chew

## $| t^h, t, t^?$

• tətçìn : (ANIM) *n*. eye, pair of eyes; sight ‡ (NVOL, BVAL) *v*. see, visually sense

## | tch, tc, tc?

- tç<sup>h</sup>à·s²-h: (INAN) *n*. that which is contained; injury ‡ (VOL, BVAL) *v*. contain (within); incapacitate, debilitate
- tçii : (INAN) n. sand, dust, gravel, grain; sugarcane, sugar, sweetness ‡ (VOL, BVAL)  $\nu$ . separate, crumble; be particulate, granular; be sweet

• tçóhk<sup>h</sup>ð: (INAN) *n*. milk, fat ‡ (NVOL, MVAL) *v*. be/have/drink milk; be fat

## $| k^h, k, k^?$

- $k^h \hat{\partial}$ : (ANIM) n. breast; fat ‡ (VOL, BVAL)  $\nu$ . produce milk; nurture, care (for)
- khòo: (ANIM) *n.* fingers, hand, arm ‡ (VOL, BVAL) *v.* touch, interact (with)
- ki?əj: (INAN) *n*. boat, method of travel; transportation; trade, commerce; goods, cargo, something to be transported ‡ (VOL, PVAL) *v*. travel (by boat); transport; trade (goods)
- kətóhi $^{\rm FP}$ : (INAN)  $\it n$ . any grain, cereal or pulse; bread  $\ddagger$  (VOL, MVAL)  $\it v$ . grow/harvest grain
- kála: (ANIM) *n*. fish; conspiracy, scheme ‡ (VOL, MVAL) *v*. fish, go fishing; conspire, scheme
- $k^2 e^2$ ,  $ján^{NI}$ : (ANIM) n. friend, spouse; expected accompaniment; friendship, relationship ‡ (VOL, BVAL)  $\nu$ . accompany; be in a relationship

### | ?

- ?elśw: (ANIM) n. squamate reptile, lizard, snake; tail; self-amputation (of an appendage) ‡ (VOL, BVAL) v. be a squamate reptile, lizard, snake; have/move/be a tail; self-amputate (an appendage)
- ?əhee : (INAN) *n*. cold food; raw food; something to be made cold ‡ (VOL, MVAL) *v*. prepare cold food; cool, make cold

C | Dictionary 54

- ?aná: (INAN) n. injury, damage; sickness; immobility, laziness; rope ‡ (VOL, BVAL) v. injure, damage; make immobile; be lazy; tie (up), bind, restrain
- ?anko: (INAN) n. bed, place of rest; sleep, rest; dream, hallucination ‡ (VOL, MVAL) v. sleep, rest; dream, hallucinate

### $| s^h, s, s^?$

- sò-nó·(ə)j : (ANIM) n. bear; fear ‡ (NVOL, MVAL) v. be a bear; be afraid
- sələn: (ANIM) *n.* intestines, that which is digested ‡ (NVOL, BVAL) *v.* digest, break down (naturally; dissolve)
- sóo : (INAN) *n*. excrement, waste ‡ (NVOL, MVAL) *v*. excrete, produce waste
- sòjsi: (ANIM) n. hot food; cooked food; something to be made warm ‡ (VOL, MVAL) v. prepare hot food; heat, make warm

### | h

• hòn : (ANIM) *n*. dog, wolf, canine ‡ (NVOL, MVAL) *v*. be a dog

#### l w

- wíini : (ANIM) *n*. cat; cleverness, wit ‡ (NVOL, MVAL) *v*. be a cat; be clever, witty
- wínwo: (ANIM) n. bird; flight; gossip ‡ (VOL, MVAL) v. be a bird; fly; gossip
- wítç<sup>h</sup>ə: (INAN) *n*. weakness, laziness ‡ (NVOL, MVAL) *v*. be weak, lazy

- wí·k-n: (ANIM) *n*. mouth, opening, orifice ‡ (VOL, BVAL) *v*. hold in one's mouth, suck; fellate
- w $\acute{a}$ wk $^{h}$ o: (INAN) n. that which is broken; breakage, damage, injury  $\ddagger$  (NVOL, BVAL)  $\nu$ . break, damage, injure; be broken, damage, injured
- wónəj : (INAN) *n*. small amount; poverty ‡ (NVOL, BVAL) *v*. have few; be poor
- wo·l-hò: (INAN) *n.* snow, ice, frost, cold water ‡ (NVOL, AVAL) *v.* snow, hail, rain coldly

### | 1

- let<sup>h</sup>itça : (ANIM) *n*. liquid food ‡ (VOL, MVAL) *v*. prepare liquid food
- ləneh: (INAN) *n*. mountain, collection of rock/stone ‡ (VOL, BVAL) *v*. be/climb a mountain; stop, prevent
- lɔtç²ɔ́: (ANIM) n. rain ceremony ‡ (VOL, MVAL) v. perform a rain ceremony
- lónlə: (INAN) *n*. dumpling, dough; smallness, roundness; cuteness ‡ (VOL, MVAL) *v*. have/eat/prepare/be (a) dumpling(s), dough; be small and round; be cute

## | j

• jon: (INAN) n. cave, dwelling; quiet, silence ‡ (VOL, MVAL) v. live in a cave; be quiet, silent

# D | Ideophones