???

Tímə̀h, the language of *Lą́gų́*

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A Grammar

2017

Dedicated to my haters

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1 | Introduction

1.1 | External History

The Timah language (tˀíməh [tˀǐ́məh]; lit. language, speech) 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 (kʰɔkˀɔtɕɔ̀ʔe [kʰo̤kˀo̤dʑɔ̀ʔè] lit. many-person). They live on the Lankung Archipelago (lənkoɴ [lə̋ŋgŭŋ] 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 limited land and natural 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 mainly flat, with mountainous centers and forested areas.

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

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

2 | Phonology

2.1 | Consonants

	Labial	*Alveolar*	*Palatal*	*Velar*	*Glottal*	*Placeless*
Nasal	m	n				ɴ
Plosive		t^h t $t^ʔ$	$tɕ^h$ tɕ $tɕ^ʔ$	k^h k $k^ʔ$	ʔ	
Fricative		s^h s $s^ʔ$			h	
Approximant	w	l	j			

Figure 2.1: Consonant Phonemes

- /n t^h t $t^ʔ$/ are dental; /s^h s $s^ʔ$ l/ are alveolar.
- /$tɕ^h$ tɕ $tɕ^ʔ$/ are alveolo-palatal; /j/ is palatal.
- /h/ is articulated with true frication of the glottis, i.e., it is not a voiceless glottal approximant.
- /ɴ/ is a nasal coda archiphoneme, i.e., not an uvular nasal[1].
- The aspirated obstruents /t^h $tɕ^h$ k^h s^h/ may be accompanied by slight breathy-voice on the following vowel.
- The glottalized obstruents /$t^ʔ$ $tɕ^ʔ$ $k^ʔ$ $s^ʔ$/ 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 [ɓ ɗ] word-initally.
- The coda archiphoneme /ɴ/ surfaces as [n ɲ ŋ] before alveolar, (alveolo-)palatal, and velar plosives, respectively. It surfaces as nasalization of the preceding vowel before all other consonants. It surfaces as [ŋ] word-finally after non-back vowels, and as [ŋ͡m] word-finally after the back vowels /o ɔ/ and before the labio-velars [k͡p^ʔ k͡p k͡p^h].
- The aspirated obstruents /t^h $tɕ^h$ k^h s^h/ are deäspirated to [t tɕ k s] intervocalically and after /w j ɴ/.
- The tenuis obstruents /t tɕ k s/ are voiced to [d dʑ g z] intervocalically and after /w j ɴ/.
- /k^h/ surfaces as [x] before [a]. This does not occur after /ɴ/.
- The velars /$k^ʔ$ k k^h/ surface as labio-velars [k͡p^ʔ k͡p k͡p^h] before the back vowels /o ɔ/. [k͡p] is voiced to [g͡b] and [k͡p^h] is deäspirated to [k͡p] intervocalically and after /w j ɴ/.

[1] Yes, I say /ən ˈuvjələ˞/. Deal with it.

- /n/ is palatalized to [ɲ] before [i] word-medially.
- The sibilants /sʰ s sˀ/ are palatalized to [ɕʰ ɕ ɕˀ] before [i]. [ɕ] is voiced to [ʑ] and [ɕʰ] is deäspirated to [ɕ] intervocalically and after /w j ɴ/.
- /l/ surfaces as [ɾ] intervocalically and after /w j ɴ/.
- /w/ surfaces as [ʋ] before [i].

2.1.2 | Dialectal Variations of Consonants

- In some[*which?*] dialects, the glottalized plosives /tˀ tɕˀ kˀ sˀ/ may surface as ejectives [t’ tɕ’ k’ (t)s’] or geminates [tt ttɕ kk ss~tts].
- In some[*which?*] dialects, the alveolo-palatals /tɕʰ tɕ tɕˀ/ may surface as alveolar affricates [tsʰ ts tsˀ], true palatals [cʰ c cˀ], or as non-affricated alveolo-palatals [ʨʰ ʨ ʨˀ].
- 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 χ ħ h̃].
- Depending on dialect[*which ones?*] and idiolect, the lateral /l/ may variously surface as any of [r ɹ ɭ ɻ ɽ ɭ̪ ð̞ ɮ ʐ̠].
- In the Shore dialect, /w/ surfaces as [ɯ̹ᵝ], i.e., it has lip compression instead of protrusion.

2.2 | Vowels

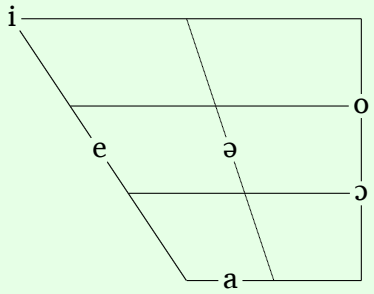


Figure 2.2: Vowel Phonemes

- All vowels may occur as long or short (*see § 2.7.1*)
- /e/ is true mid [ẹ][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 [ɨ] after the velars /kʰ k kˀ/ and before coda [ŋ].
- /o ɔ/ raise to [u o̜][2] word-finally in open syllables, after the velars /kʰ k kˀ w/, and before coda [ŋ].
- /a/ surfaces as [æ–ɛ] after the palatals /tɕʰ tɕ tɕˀ j/ and before coda /j/.

2.2.2 | Dialectal Variations of Vowels

- Some[*which?*] dialects have merged the back vowels /o ɔ/ into true mid [o̜].
- Some[*which?*] dialects have merged the front vowels /i e/ into [i–ɪ].
- In the Shore dialect, the back vowels /o ɔ/ (and their allophones) surface as [ɤ$^{\beta}$ ʌ$^{\beta}$], 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 /ɴ w j/ or long vowel are grouped as *live* and those ending in /ʔ 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.

Clitics are ignored by stress placement.

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.

+ATR (Light)	i	ə	o
−ATR (Heavy)	e	a	ɔ

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 /ʔ h/, represented by G) and non-harmonizing morphemes, such as clitics.

[2] [e̜ o̜] 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 § 8.6.2*), here represented by $\omega_1\omega_2$, may undergo weakening. If an obstruent is present initially in ω_2, it undergoes one of the following mutations.

t^{ʔ}	t^{h}		t
tɕ^{ʔ}	tɕ^{h}		tɕ
k^{ʔ}	k^{h}	→	k
s^{ʔ}	s^{h}		s
ʔ			h

Figure 2.5: Obstruent Weakening

2.4 | Obstruent Contraction

In non-initial sequences of $\underset{*}{\text{P}}_1\text{V}\underset{*}{\text{P}}_2\text{V}$, wherein $\underset{*}{\text{P}}$ represents any obstruent and V represents any vowel, the sequence $\underset{*}{\text{P}}_1\text{V}\underset{*}{\text{P}}_2$ is contracted to $\underset{*}{\text{P}}_3$. 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^{h} tɕ^{h} k^{h} s^{h} h/, P represents the tenuis obstruents /t tɕ k ʔ[3]/, and P^{ʔ} represents the glottalized obstruents /t^{ʔ} tɕ^{ʔ} k^{ʔ} s^{ʔ} ʔ[3]/. The glottals /ʔ h/ only affect contraction when they occur as $\underset{*}{\text{P}}_2$.

P^{h}		P^{h}, P		P^{h}
P^{h}		P^{ʔ}		P
P	+	P^{h}	→	P^{h}
P, P^{ʔ}		P, P^{ʔ}		P^{ʔ}
P^{ʔ}		P^{h}		P

Figure 2.6: Obstruent Contraction

The specific place and manner of articulation of $\underset{*}{\text{P}}_3$ is dependent on an hierarchy of the obstruents in the positions $\underset{*}{\text{P}}_1$ and $\underset{*}{\text{P}}_2$, i.e., obstruents lower in the hierarchy assimilate to those higher in the hierarchy.

k* > tɕ* > t* > s* > ʔ, h

Figure 2.7: Obstruent Hierarchy

[3] /ʔ/ is classed as tenuis when it is either $\underset{*}{\text{P}}_1$ or $\underset{*}{\text{P}}_2$, and as both tenuis and glottalized when it is $\underset{*}{\text{P}}_3$

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 (*see § 2.6.1*).

2.5 | Degemination

Timah does not allow gemination of consonants, even across word boundaries. When a coda /ʔ 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 jə́

/kiʔəj jə́/

[kìʔəj̚ə́]

my boat

2.6 | 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 mobility* and *tone association*.

2.6.1 | Tone Mobility

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

2.6.1.1 | 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

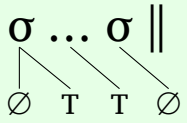


Figure 2.8: Leftward Tone Shift

2.6.2 | Tone Association

Tone association is the process in which the tone of a given syllable may spread to the preceding toneless syllable under certain circumstances. This applies after tone mobility.

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

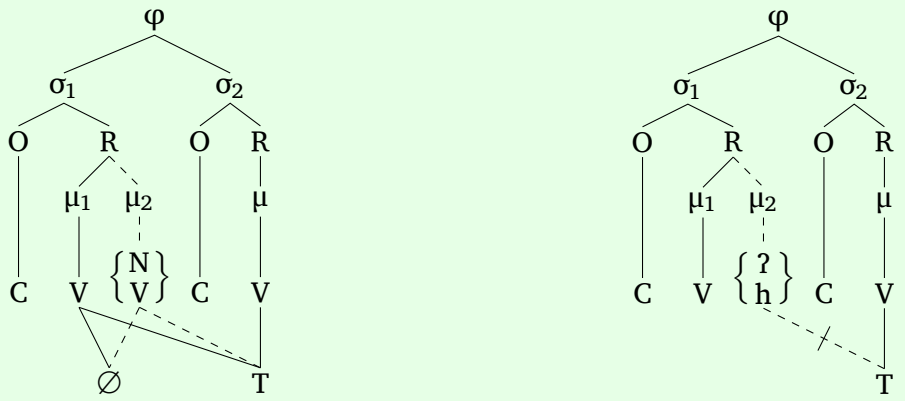


Figure 2.9: Tone Association

2.7 | Phonotactics

2.7.1 | Syllable Structure

$$CV(T)(V^{4}(T)|H|S)$$

H = {ʔ,h}
S = {ɴ,w,j}
T = {◌́,◌̀}

Figure 2.10: Syllable Structure

2.7.1.1 | Restraints

These phonotactic restraints govern allomorphy.

- The nasal coda /ɴ/ cannot precede a nasal /m n/.
- The glottal codae /ʔ h/ cannot precede another glottal /ʔ 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.

[4]Long vowel morae must be homorganic in vowel quality, but not necessarily in tone.

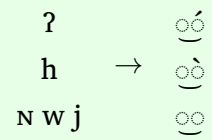


Figure 2.11: Coda Reduction

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

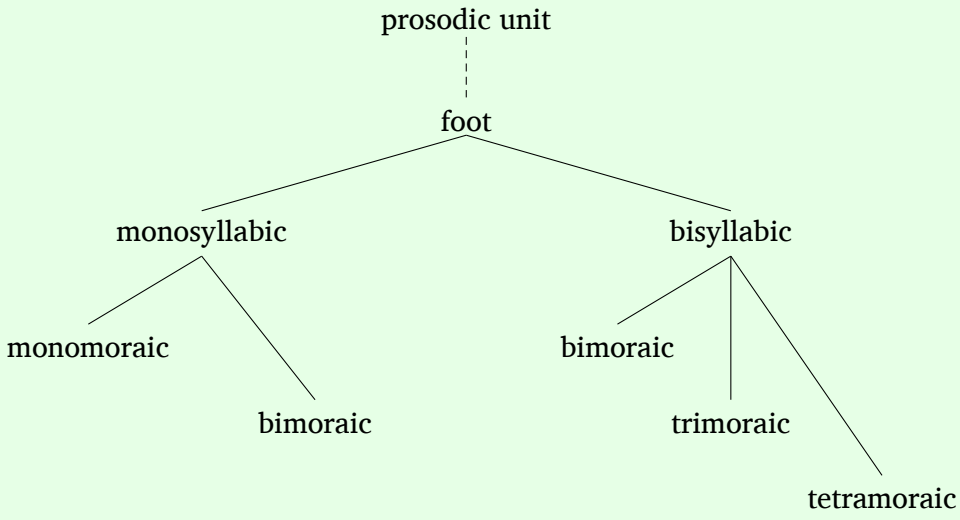


Figure 3.1: Prosodic Hierarchy

3.3 | Intonation

TODO all of this

4 | Orthography

The Timah language uses the *Loma* script (lɔ́ma [lɔ̋mà] lit. smooth-word), a defective abugida that was borrowed from a neighboring language *Maryu* (Timah májlo [ɓǽjɾò]). It was originally written on the large, durable leaves of the sˀáláw ([sˀəɾəw]) 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⟩				⟨◌̣⟩[6]
Plosive		⟨th d t⟩	⟨ch j c⟩	⟨kh g k⟩	⟨ḥ⟩[6]	
Fricative		⟨sh x s⟩			⟨h⟩	
Approximant	⟨w⟩	⟨l⟩	⟨y⟩			

Figure 4.1: Romanization (Consonants)

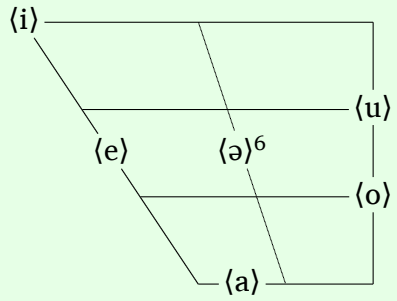


Figure 4.2: Latin (Vowels)

Vowels are marked with ⟨◌́⟩ for high tone, ⟨◌̀⟩ for low tone, and unmarked for toneless.

[6] /ɴ ʔ ə/ may alternatively be romanized as ⟨n ' v⟩, respectively.

4.1.2 | Tibetan

	Labial	*Alveolar*	*Palatal*	*Velar*	*Glottal*	*Placeless*
Nasal	⟨མ⟩	⟨ན⟩				⟨ཨཾ⟩[7]
Plosive		⟨བ ད ྟ⟩	⟨ཚ ཇ ཅ⟩	⟨ཁ གྷ ཀ⟩	⟨འ, ཨ⟩[7]	
Fricative		⟨ཧ ཟ ས⟩			⟨ཧྟ, ཨཿ⟩[7]	
Approximant	⟨ཝ, ཬ⟩[7]	⟨ར⟩	⟨ཡ, ཡྟ⟩[7]			

Figure 4.3: Tibetan (Consonants)

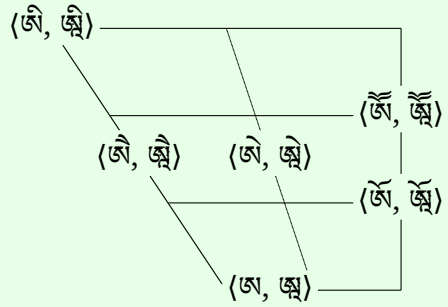


Figure 4.4: Tibetan (Vowels)[7]

Tone is not marked.

4.1.3 | Mkhedruli

	Labial	*Alveolar*	*Palatal*	*Velar*	*Glottal*	*Placeless*
Nasal	⟨მ⟩	⟨ნ⟩				⟨◌ნ⟩
Plosive		⟨თ დ ტ⟩	⟨ც ძ ჭ⟩	⟨ქ ღ კ⟩	⟨ყ⟩	
Fricative		⟨ჩ შ ს⟩			⟨ჰ⟩	
Approximant	⟨ვ⟩	⟨რ⟩	⟨ჲ⟩			

Figure 4.5: Mkhedruli (Consonants)

[7] ⟨ཨ⟩ is a filler letter. In slots with two elements, the second element is the coda form for consonants, and the long form for vowels.

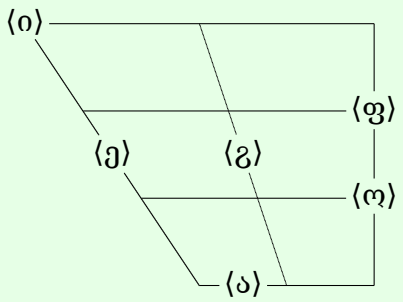


Figure 4.6: Mkhedruli (Vowels)

Vowels are marked with ⟨◌ꝙ⟩ for high tone, ⟨◌ꝝ⟩ for low tone, and unmarked for toneless.

4.1.4 | Hacm

	Labial	*Alveolar*	*Palatal*	*Velar*	*Glottal*	*Placeless*
Nasal	⟨ɒ⟩	⟨n⟩				⟨◌ⁿ⟩
Plosive		⟨ɾʰ ɷ ɾ⟩	⟨ɻʰ ɥ ɻ⟩	⟨ɭʰ ɸ ɭ⟩	⟨ɰ⟩	
Fricative		⟨ʝʰ ɻ ʝ⟩			⟨h⟩	
Approximant	⟨o⟩	⟨l⟩	⟨s⟩			

Figure 4.7: Hacm (Consonants)

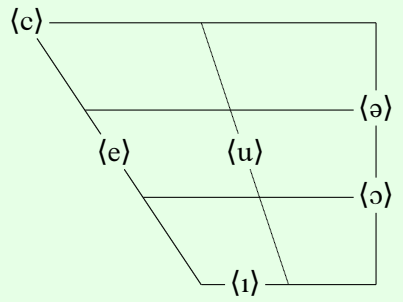


Figure 4.8: Hacm (Vowels)

Vowels are marked with ⟨◌́⟩ for high tone, ⟨◌̀⟩ for low tone, and unmarked for toneless.

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 § 8.9*), 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 argument 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 argument 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 argument 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 § 8.3*).

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 § 11.1*) or a *relative pronoun* (*see § 7.2.3*). They are placed before the head of a dependent 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-peripheral-object*. In the former, the subject is the head; in the latter, the object is the head.

All dependent clauses are deranked (*see § 8.6*).

Relative clauses are placed before their head; of arguments, 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*
teɴ	*introduces causal dependent clause*
motó	*introduces consecutive dependent clause*

The difference between using the conjunction nəj as a relativizer and using a relative pronoun is that of *clausal restriction*. With unrestrictive clauses, nəj is used as a relativizer. With restrictive clauses, one of the relative pronouns (*see § 7.2.3*) is used as a relativizer.

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 § 8.4*). 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 § 16.1*).

			Erg.-Abs.	*Either*	*Act.-Stat.*
Mono.	*Pfv.*	*Vol.*		×	
		Nvol.			×
	Npfv.	*Vol.*			×
		Nvol.			×
Multi.	*Pfv.*	*Vol.*	×		
		Nvol.	×		
	Npfv.	*Vol.*		×	
		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 § 8.3*) 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 § 8.6.3*) 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 head phrase. These are glossed and referred to as clitics, but may also be considered *gruppenflexion* or phrasal affixation.

6 | Lexical Categories & Properties

6.1 | Lexical Categories

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 *nominal limitives*, or true nouns, and *verbal limitives*, or true verbs (*see §§ 7.1 and 8.1*). These are grouped together as *limitives*, and contrast with *formatives*, which consist of content words that can act as either a noun or a verb.

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	*item is viewed in its entirety; as sufficient, complete, whole*; CMPLT
Animate	*living, mobile, heat, abstract*; ANIM
Inanimate	*non-living, immobile, cold, concrete*; INAN
Incomplete	*item is viewed partially; as deficient, incomplete, condensed*; NCMPLT

Generally, these refer to the compositional integrity within the context of the situation.

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.

7 | Nouns

7.1 | Nominal Limitives

Nominal limitives consist of a set of nouns that cannot be used as verbs. See App. A for a list. Some nominal limitives are used as classifiers in tandem with a numeral (*see Ch. 12*) to describe a noun.

7.2 | Pronouns

Pronouns are a subset of nominal limitives that take the function of another noun or noun phrase.

7.2.1 | Personal

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

			Agt.	*Pat.*	*Erg.*	*Assoc.*	*Loc.*
Stbl.	*1*		lə	ləhi	jə́ɴ	sʰaj	tɕʰɔ̀
	2		nɔ́	nɔ	nò		nə
	3	*Anim.*	tə́ʔ	tə́hi	tɕàɴ	kéh	té
		Inan.	haɴ				
Nstbl.	*1*		to	tò	tʔáw		jə́
	2		nɔɔ́	nɔ́ɔ̀	néj		tɕɔ
	3	*Anim.*	tʔóʔ	tʔóhi	tɕʰoɴ	kèè	kʰəw
		Inan.	tʰɔɴ				

(a) Complete

	Agt.	*Pat.*	*Erg.*	*Assoc.*	*Loc.*
1	ká	ke	tàʔ	tɕà	ləj
2	nɔ́ɔ́	náw	nəw		no
3	sə́sá	seh	kíɴ		sʔəw

(b) Incomplete

Figure 7.1: Personal Pronouns

The *animate-inanimate* distinction in 3rd 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) and integrity and animacy (of the possessed). They indicate ownership and relation. They are placed after their head noun.

	Complete		*Incomplete*
	Animate	*Inanimate*	
1	lə́ɴ	jə́	sə̀ɴ
2	ná	náj	waɴ
3	tɔ́ɔ	tɕɔ́	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 the specific characteristics of a question.

		Personal	*Location*	*Proportion*	*Manner*	*Reason*
Complete	*Anim.*	ʔəsè	$k^hɔ̀$naj	silɔ	sáj	$s^hè$h
	Inan.	taɴsà				
Incomplete		ʔehi	kéhe	saʔií	səmɔ́ɔ	$s^hɔ$jna

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 § 16.2.1*). 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.

		Anterior		*Posterior*
		Sinister	*Dexter*	
Stbl.	*Prox.*	tàá	kò	mɔɴ
	Med.	sáwhe	kàmeʔ	jéhə
	Dist.	kˀitɔ̀		
Nstbl.	*Prox.*	tɕaà	ʔakə	wóɴ
	Med.	ʔitɕˀa	kèho	míí
	Dist.	tekí		

(a) Complete

	Anterior	*Posterior*	*Indefinite*
Prox.	sʰà	kɔʔ	nəj
Med.	tòhe	ʔaɴkí	mále
Dist.	sawa		

(b) Incomplete

		Complete	*Incomplete*
Prop.	*Prox.*	jə́	likɔ̀ɴ
	Dist.	jíɴ	
Man.	*Prox.*	wɔ́j	misɔɴ
	Dist.	kə̀ɴ	

(c) Proportion & Manner

Figure 7.4: Demonstrative Pronouns

The laterally-neutral distal demonstratives kˀitɔ̀ 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) tàákˀitɔ̀

tàá- kˀitɔ̀

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

7.3 | 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 § 6.2*).

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

	Complete		*Incomplete*
	Animate	*Inanimate*	
Stbl.	∅-	kaw-, kɔ-	wí-
Nstbl.	tɔ-	jé-	
Pnstbl.	na(ɴ)-	∅-	

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 § 8.3) or the subject of a volitional 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 subject of a non-volitional 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*
Agt.	-∅	-ɴ-(◌́)
Pat.	-h	-h-(◌́)
Erg.	-ʔ	-ho
Assoc.	-wɔ	
Loc.	-tɕó	-je

(a) Open

	Complete	*Incomplete*
Agt.	-∅	-té
Pat.	-si	-séɴ
Erg.	-kˀi	-kʰo
Assoc.	-kɔ	
Loc.	-tɕó	-se

(b) Closed

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 meaing) and the locative takes on the meaning of a general locative or temporal (i.e., marking place or time).

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.

	Referential		*Non-referential*	
	Visible	*Non-visible*	*Visible*	*Non-visible*
Stbl.	=mɔ́ɔ	=haɴ	=sˀi	=tˀéʔ
Nstbl.	=kˀə	=mé	=kʰə̀ɴ	=tɕáá
Pnstbl.	=já		=kʰɔɔ	

Figure 7.8: 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*
kˀe	*lack of accompaniment/use; negatory theme of trivalent verb*
kʰɔno	*intent of benefit/purpose; beneficial/purposive theme of trivalent verb*
sì	*intent of reference/relation*
tɕé	*state of being*
kʰò	*change of state*
kéh	*similarity/comparison*
tˀɔka	*causation*

Locative Postpositions

tí	*movement toward*
sʰì	*movement away from*
mí	*movement onto*
tɕɔ̀ɔ	*movement under*
tʰìsé	*movement into*
siiʔi	*movement out of*
tɕoli	*beginning of movement/time*
ʔaɴ	*end of movement/time*
kaɴʔɔ	*movement through, by way of, adjacent to*
soʔa	*in front of/below/before*
sàkə	*behind/above/after*
seeʔá	*between, amidst, within*
sɔtʰe	*surrounding, around, encompassing*

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) tɕɔ̀ʔi
tɕɔ̀ʔi
person

a person

(3) tɕɔ̀ʔitɕɔ̀ʔi
tɕɔ̀ʔi ~tɕɔ̀ʔi
person ~person
people

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

(4) hòN
hòN
dog
a dog

(5) hòNhòN
hòN ~hòN
dog ~dog
a pack of dogs

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 tə́lajkála
∅- keteh ~keteh -∅ tə́= laj- kála -∅
CMPLT.ANIM.STBL- child ~child -AGT.CMPLT 3.STBL.CMPLT.ANIM.AGT= PFV.REAL- fish -AV
the children all went fishing (collectively)

(7) wíketehketehté sálajkála
wí- keteh ~keteh -té sá= laj- kála -∅
NCMPLT- child ~child -AGT.NCMPLT 3.NCMPLT.AGT= PFV.REAL- fish -AV
the children each went fishing (individually)

8 | Verbs

8.1 | Verbal Limitives

Verbal limitives consist of a set of content words that cannot be used as nouns. See App. B for a list. Some verbal limitives can be used in tandem with other verbs to form a *serial verb construction* (*see § 8.8*).

8.2 | Verbal Negation

Verbs are negated by appending a negatory particle (*see § 11.3*) before the negated verb. The verb must be in an irrealis mood (*see § 8.6.7*). As negatory (and affirmatory) particles inherently indicate evidentiality, evidential modality (*see § 8.6.8*) is dropped.

(8) ləlajkála
lə= laj- kála -∅
1.STBL.AGT= PFV.REAL- fish -AV
I went fishing

(9) kə́j ləhajkála
kə́j lə= haj- kála -∅
NEG.BAS 1.STBL.AGT= PFV.IRR- fish -AV
I did not go fishing

8.3 | 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
Subvalent	*one or two arguments, see § 8.3.1*; SVAL
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 metagrouping.

Copulae (*see § 8.9*) are considered monovalent.

8.3.1 | Subvalency & Salience

Some verbs are classed as *subvalent*. Although these verbs may take up to two arguments, the argument that would prototypically be the object is demoted to the peripheral argument, called the *subvalent peripheral*. This demotion is motivated by the property of *salience*, or how much the object is affected by the subject. Verbs with less salient objects will tend to be subvalent.

The subvalent peripheral is put in the locative case (*see § 7.3.2*) and takes the postposition tí. When negated, the postposition sʰì is used instead. There is no verbal agreement for the subvalent peripheral.

Colloquially, a subvalent peripheral may be inflected as an object (i.e., as if the verb *were not* subvalent) to express that the object *was* affected. Likewise, the object of an ambivalent verb may be inflected as a subvalent peripheral (i.e., as if the verb *were* subvalent) to express that the object *was not* affected.

(10) *tɕɔ̀ʔihmɔ́ɔ lətéhkʰajtè

*∅-	tɕɔʔi	-h	=mɔ́ɔ	lə=	téh=		
*CMPLT.ANIM.STBL-	person	-CMPLT.PAT	=REF.VIS.STBL	1.STBL.AGT=	3.STBL.ANIM.PAT=		
∅-	kʰajtè	-∅					
NPFV.REAL-	see	-AV					

*I see the person (*colloq.* and the person was affected)

(11) tɕɔ̀ʔitɕó tímɔ́ɔ ləkʰajtè

∅-	tɕɔʔi	-tɕó	tí	=mɔ́ɔ	lə=	∅-	
CMPLT.ANIM.STBL-	person	-CMPLT.LOC	toward	=REF.VIS.STBL	1.STBL.AGT=	NPFV.REAL-	
kʰajtè	-∅						
see	-AV						

I see (toward) the person

8.4 | 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	*denotes an action that is intentionally performed*; VOL
Non-volitional	*denotes an action that is unintentionally performed*; NVOL

8.5 | 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.

8.6 | Conjugations

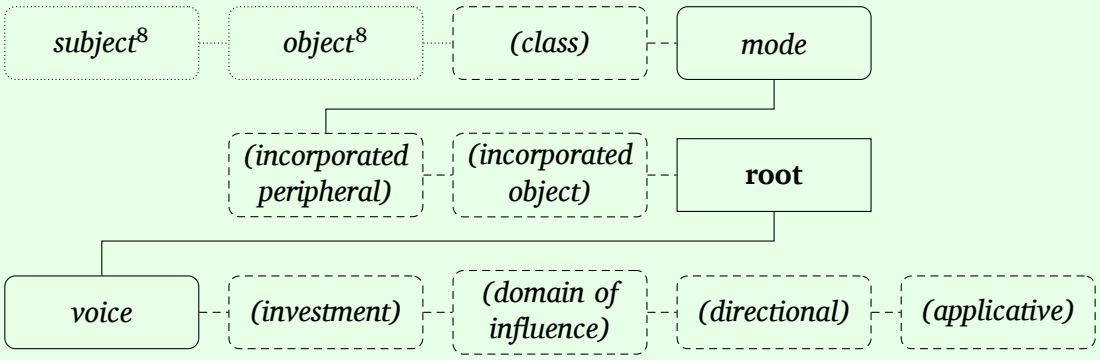


Figure 8.1: Conjugation Slots

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

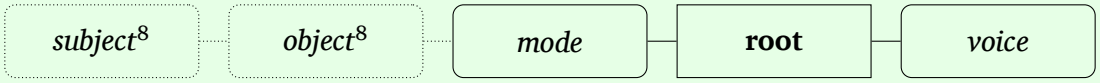


Figure 8.2: Deranked Conjugation Slots

Copulae also take more limited inflection.

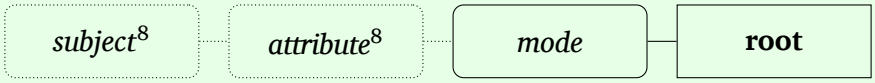


Figure 8.3: Copular Conjugation Slots

8.6.1 | 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.

[8] *Subject* and *object/attribute* slots are optional when the corresponding argument is not present.

			Agt.	*Pat.*	*Erg.*
Stbl.	*1*		lə=	le(h)=	jə́(ɴ)=
	2		nɔ́=	nɔ=	nɔ̀=
	3	*Anim.*	tə́=	té(h)=	tɕà(ɴ)=
		Inan.	ha(ɴ)=		
Nstbl.	*1*		to=	tɔ̀=	tˀáw=, tˀɔ́=
	2		nɔ=(◌́)	nɔ́=(◌̀)	néj=, ní=
	3	*Anim.*	tˀɔ́=	tˀə́(h)=	tɕʰo(ɴ)=
		Inan.	tʰɔ(ɴ)=		

(a) Complete

	Agt.	*Pat.*	*Erg.*
1	ká=	tà(ʔ)=	tà(ʔ)=
2	nɔ́=(◌́)	nəw=, no=	no=
3	sá=	se(h)=	kí(ɴ)=

(b) Incomplete

Figure 8.4: Pronominal Proclitics

8.6.2 | 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., he chops the tree (a specific tree) vs. he chops trees (as a profession, in general). 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

8.6.3 | Voice

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

-∅	**Actor Voice**; AV
-tá	**Undergoer Voice**; UV
-mɔ́tè	**Correlative Voice**; CV

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.

(12) ləmólámɔ́tè
lə= mólá -mɔ́tè
1.STBL.AGT.CMPLT= wash -CV
I wash myself

(13) lələmólámɔ́tè
lə= lə= mólá -mɔ́tè
1.STBL.AGT.CMPLT= 1.STBL.AGT.CMPLT= wash -CV
we wash ourselves

(14) kákámólámɔ́tè
ká= ká= mólá -mɔ́tè
1.AGT.NCMPLT= 1.AGT.NCMPLT= wash -CV
we wash each other

8.6.4 | Investment

The property of *investment* indicates that the subject has or does not have some sort of interest or stake pertaining to the action, e.g., give (uninvested) vs. loan (invested).

-∅	*uninvested*
-tɕà	*invested*; INV

8.6.5 | 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.

◌́-N, -náʔ	*inside the domain of influence*; ∈DOI
-lɔ̀ɔ̀	*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.

(15) hòNmɔ́ɔ jə́Ntálajʔanálɔ̀ɔ̀
∅- hòN -∅ =mɔ́ɔ jə́N= tə́=
CMPLT.ANIM.STBL- dog -CMPLT.AGT =REF.VIS.STBL 1.STBL.ERG= 3.STBL.ANIM.AGT=
laj- ʔaná -∅ -lɔ̀ɔ̀
PFV.REAL- hit -AV -∉DOI
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).

(16) hòɴsisˀi lətéhɔnɔ́ɴ

∅-	hòɴ	-si	=sˀi	lə=	té=
CMPLT.ANIM.STBL-	dog	-CMPLT.PAT	=NREF.VIS.STBL	1.STBL.AGT=	3.STBL.ANIM.PAT=
hɔnɔ́	-∅	-ɴ			
want	-AV	-∈DOI			

I want a dog (and believe this to be attainable)

(17) hòɴsisˀi lətéhɔnɔ́lɔ́ɔ̀

∅-	hòɴ	-si	=sˀi	lə=	té=
CMPLT.ANIM.STBL-	dog	-CMPLT.PAT	=NREF.VIS.STBL	1.STBL.AGT=	3.STBL.ANIM.PAT=
hɔnɔ́	-∅	-lɔ́ɔ̀			
want	-AV	-∉DOI			

I want a dog (and believe this to be unattainable)

8.6.6 | 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

tɕɔ́	**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
tˀɔ́ɴ	**Suggestive**; *suggestions, admonitions, warnings*; SUG

8.6.7 | 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	∅-	kˀa(ʔ)-	laj-, le-	jíhi-	R_i~kˀa(ʔ)-
Affirmative	~R_f	kˀa(ʔ)-√~R_f	laj-√~R_f, le-√~R_f	jíhi-√~R_f	R_i~kˀa(ʔ)-√~R_f
Irrealis	tɔ(ʔ)-	tew-, tə-	haj-, he-	já-	R_i~tew-, R_i~tə-
Conditional	ʔo-		né(h)-		
Hypothetical	tàj-, tè-		kʰà-		R_i~tàj-, R_i~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*.

Mood

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

Aspect

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

8.6.7.1 | Conditionals

Conditionals are formed by using a statement in the conditional mood (the *consequence*) in tandem with a statement in another mood (the *condition*). The statements are always separated by a conjunction (*see § 8.6*), and may be in either order depending on topic and focus (*see § 16.1*).

Implicative	REAL + teɴ; *basic factual conditional*
Emphatic Implicative	AFF + teɴ; *the consequence is emphasized*
Counterfactual	IRR + motó; *the condition is considered unlikely*
Predictive	HYP + motó; *the condition is considered likely*

8.6.8 | 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
sə́sɔɴ	**Evidential Inferential**; *knows of event via evidence*; EVID
tɔɴke	**Anecdotal Inferential**; *knows of event via prior experience(s)*; ANEC
mɔ́hɔ	**Reportative**; *knows of event indirectly*; REP
ʔaj	**Quotative**; *marks quoted speech, dialogue; can be used with other evidentials*; QUOT

8.6.9 | Directional Specifiers & Applicatives

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

TODO example sentences

-tí	**Venitive**; *motion toward, with*; VEN
-sʰì	**Andative**; *motion away from, against*; 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 a directional specifier in order to express direction or efficiency. These are placed directly after the verb root and, if present, after the directional specifier.

TODO example sentences

-lí	**Relational**; *accompaniment*; REL
-kʰòɴ	**Beneficial**; *intent of benefit/purpose or reference/relation*; BEN
-tˀɔʔ	**Causal**; *causation, final causation*; CAUS
-kéh	**Complemental**; *similarity/comparison, state of being*; COMP
-tɕò	**Locational**; *relative physical or temporal location and movement*; LOCL
-sɔ̀ʔ	**Positional**; *absolute physical or temporal location and movement*; POSL

The applicatives -lí and -kʰòɴ 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.

8.7 | 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

	Complete		*Incomplete*
	Animate	*Inanimate*	
Standing	ʔi-	tàj-, tè	sahi-
Sitting	maa-		mií-
Lying	tɕè-	tí(ɴ)-	
Generic	kʔə́j-, kʔí-		ʔɔj-, ʔə-

Figure 8.6: 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

8.8 | 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

8.8.1 | Perceptive

Perceptive SVCs are always discontinuous, and express sensory interaction.

8.8.2 | Directive

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

8.8.3 | Capacitive

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

8.9 | Copulae

Timah *copulae* are a subset of verbal limitives that are used to connect arguments.

Copulae only inflect for person and mode (*see §§ 8.6.1 and 8.6.7*). The constituent arguments within a copular phrase (i.e., the subject and attribute) both take the (unmarked) agentive case (the attribute agrees as 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 §§ 8.6.6 to 8.6.8*).

	Essential	*Existential*	*Referential*
Assertive	kew	nénɴ	tʰə̀h
Negatory	kəlé	néjé	tʰə̀né
Revelatory	ʔowó	təjə	

Figure 8.7: Copulae

9 | Descriptives

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

tɕʰànéˊ	*good, positive; full*
sìɴkà	*bad, negative; empty*
semɔ́ʔ	*fast; loud; hard, rough*
lɔ́	*slow; quiet; soft, smooth*
kʰɔkʔɔ	*big, strong; many*
tɕʰi	*small, weak; few*
sɔɴ	*short, wide; feminine*
ʔiɴ	*long, narrow; masculine*
tɕósʰa	*white, light; fresh, new*
káj	*warm (color); hot, dry*
sɔ̀tɕe	*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*
Ω	*white*	×	kétɕɔ́h	sɔ̀tɕʔáh	sʰátɕʰá
	warm	tɕókʰáj	×	sɔ̀kʔáj	sɔ́ké
	cool	tɕósə̀	kétɕʔə̀	×	tʰɔ́sɔ̀h
	black	tɕɔ́tʰɔ́	kétɕá	sɔ̀tɕʰéw	×

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*.

sʰì	*positive comparison*
míh	*equative comparison*
tí	*negative comparison*

(18) ketehmɔ́ɔ tɕɔ̀ʔitɕó sʰìmɔ́ɔ tə́kew tɕósʰa

∅- keteh -∅ =mɔ́ɔ ∅- tɕɔ̀ʔi
ANIM.STBL.CMPLT- child -AGT.CMPLT =REF.VIS.SG ANIM.STBL.CMPLT- person
-tɕó sʰì =mɔ́ɔ tə́= kew tɕósʰa
-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* all, every before the recipient, or using it in place of the recipient. Excessive constructions are formed by omitting the recipient entirely.

(19) ketehmɔ́ɔ séè (tɕɔ̀ʔitɕó) sʰì(mɔ́ɔ) tə́kew tɕósʰa

∅- keteh -∅ =mɔ́ɔ séè (∅- tɕɔ̀ʔi
ANIM.STBL.CMPLT- child -AGT.CMPLT =REF.VIS.SG all (ANIM.STBL.CMPLT- person
-tɕó) sʰì =(mɔ́ɔ) tə́= kew tɕósʰa
-LOC.CMPLT) ABL =(REF.VIS.SG) 3.STBL.ANIM.AGT.CMPLT= COP.ESSNT.ASSRT new
the child is the youngest of all (men)

(20) ketehmɔ́ɔ sʰì tə́kew tɕósʰa

∅- keteh -∅ =mɔ́ɔ sʰì tə́=
ANIM.STBL.CMPLT- child -AGT.CMPLT =REF.VIS.SG ABL 3.STBL.ANIM.AGT.CMPLT=
kew tɕósʰa
COP.ESSNT.ASSRT new
the child is very/too young

10 | Word Formation

Word formation in Timah is achieved through the processes of *derivation* and *compounding*.

10.1 | 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		**Suffixes**	
tɔ̀j-, tə-	*opposite, reverse*	-tɕˀə́	*attempt, try*
tɕʰà(ʔ)-	*person, profession*	-tàj	*product, result*
lə(h)-(◌́)	*place; time*	(◌́)-litɔ́	*container, captivity, portation*
kósó-	*homorganic group/mass*	-kˀə́ʔe	*tool, instrument*
kʰe-	*heterorganic group/mass*	(◌̀)-sˀoo	*abstraction, mass*
tɕá(ɴ)-(◌̀)	*prevent, stop, interrupt*	-tɕì	*animals, inedible plants*
sáj-, sé-	*pretend, mimic, falsify*	-mitàɴ	*edible plants, food*
sóo-	*cause, source*	-kosée	*pejorative, derogatory*
ʔikə̀-	*expected accompaniment*	-tɕì	*previous, former*
		(◌́)-nə	*eventual, later*

10.1.1 | 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*	↔	s*
tɕ*	→	
k*	↔	tɕ*
ʔ	↔	h

Figure 10.2: 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	↔	m
l	↔	n
j	→	
-w, -j[9]	→	-ɴ[9]
◌͡◌	←	

Figure 10.3: Movement

10.2 | Compounding

Compounding in Timah is divided into *coördinating* and *subordinating* compounding.

10.2.1 | Coördinating

In coördinating compounds, the elements are equal and may be in any order. These are formed by appending one word onto another.

10.2.2 | Subordinating

In subordinating compounds, elements are order-dependent; each element is a subset of the following element. These are formed by appending the reduced form (if present) of a word before the word by which it is subordinated.

[9]These are the coda phonemes /w j ɴ/.

11 | Function Words

11.1 | 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*
ʔika	*presents contrast*
teh	*presents alternative*

Verbal

nəj	*presents non-contrast; introduces basic (dependent) clause*
teɴ	*presents rationale, causality; introduces causal (dependent) clause*
motó	*presents consequence; introduces consecutive (dependent) clause*
ʔihi	*presents contrast*
kàh	*presents alternative*

11.2 | Satellite Conjunctions

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

ní	*indicates weak affirmation of the statement*
ʔika	*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*
teɴ	*indicates agreement with the listener*
motó	*inquires strong affirmation of the listener's experience*
ʔihi	*inquires contrast of the listener's experience to the speaker's statement*
kàh	*requests more information from the listener*

11.3 | Affirmatory & Negatory

Affirmatory and *negatory* particles in Timah are used to affirm and negate statements, e.g., when answering a polar question. Various levels of evidentiality are expressed in them.

Affirmatory

sén	**Affirmatory-Basic**; *affirms with no regard to evidence*; AFF.BAS
sʰè	**Affirmatory-Witness**; *affirms via visual evidence*; AFF.WIT
sʰɔ̀	**Affirmatory-Sensory**; *affirms via non-visual evidence*; AFF.SNS
sʔó	**Affirmatory-Evidential**; *affirms via direct evidence*; AFF.EVID
tɕʔén	**Affirmatory-Anecdotal**; *affirms via prior experience(s)*; AFF.ANEC
jɔ́n	**Affirmatory-Reportative**; *affirms via indirect evidence*; AFF.REP

Negatory

kə́j	**Negatory-Basic**; *negates with no regard to evidence*; NEG.BAS
kʰàj	**Negatory-Sensory**; *negates via sensory/direct evidence*; NEG.SNS
sə́j	**Negatory-Inferential**; *negates via direct evidence/prior experience(s)*; NEG.INF
wáj	**Negatory-Reportative**; *negates via indirect evidence*; NEG.REP

12 | 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. There is no overt difference between cardinal and ordinal numbers.

0	ʔi	*12*	tɕíha	*24*	síɴ	*36*	sekɔ́	*48*	tʰàse
1	tʰè	*13*	tɕˀəə	*25*	koɴ	*37*	hino	*49*	sʰii
2	niɴ	*14*	náʔah	*26*	ʔəəha	*38*	sʰəə	*50*	sˀóo
3	kɔ	*15*	sʰa	*27*	tʰaà	*39*	tè	*51*	kʰɔ̀j
4	kʰì	*16*	sʰɔh	*28*	tòo	*40*	kˀɔ̀ʔ	*52*	lɔ́ʔeɴ
5	tɕʰajá	*17*	kʰeé	*29*	tɕəɴ	*41*	sómáɴ	*53*	tʰòɴ
6	soo	*18*	jo	*30*	sʰìh	*42*	hasʰè	*54*	tɕɔh
7	səh	*19*	tàɴʔa	*31*	sˀə	*43*	kè	*55*	sò
8	ʔɔsə	*20*	tɕʰà	*32*	nɔ́j	*44*	kʰo	*56*	taloh
9	kʰii	*21*	təkˀo	*33*	sàtɕíí	*45*	lato	*57*	jíli
10	tɕé	*22*	ʔətɕˀó	*34*	satɕaʔ	*46*	tɕəh	*58*	tʰɔ̀
11	ləha	*23*	tɔkʰo	*35*	tɕʰoɴ	*47*	sìitʰɔ	*59*	heɴtʰe

Figure 12.1: Numerals

12.1 | Higher & Lower Numerals

Higher numerals in Timah are formed by using a positional numbering system, wherein each consecutive slot *n* contains a numeral *x* and indicates $60nx$.

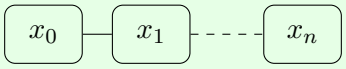


Figure 12.2: Higher Numerals

12.1.1 | Numeric Distributors

Numeric distributors may also be used to form higher numerals as well as *lower numerals*. They multiply or divide the numeral they are appended to by a set value.

-nii	*2*×	-jih	*2*÷
-kˀɔ́	*3*×	-kʰà	*3*÷
-kì	*4*×	-té	*4*÷
-tɕé	*5*×	-sì	*5*÷
-sˀo	*6*×	-hɔ	*6*÷

Numerals may be added and subtracted using the postpositions lí and kʔe, respectively.

13 | Units of Measure

13.1 | Time

13.1.1 | Seasons

A year is divided into eight main seasons.

mólɔ́ló	*spring*
mii?ló	*late spring/early summer*
tɕii?ló	*midsummer*
kʰə̀?oló	*late summer/early autumn*
lóo?ló	*autumn*
níjɔ̀?ló	*late autumn/early winter*
wo?ɔ̀ló	*midwinter*
hə̀ló?ló	*late winter/early spring*

14 | Register Terms & Personal Names

14.1 | Register

Register terms in Timah are used to describe the social relationship between people using the three properties of *status*, *age*, and *formality*.

	Inferior			*Equivalent*			*Superior*		
	Younger	*Equal*	*Elder*	*Younger*	*Equal*	*Elder*	*Younger*	*Equal*	*Elder*
Formal	tèhah		waj	kátɕʰè	sʰò	sʰəw	létɕaʔ	jóʔoh	sako
Polite	lɔj	tɕʰaw	tɕoo	sə́hkəh		woʔɔ	kʰemé	miiʔí	
Familiar		tɕʰɔsʰə	toʔa	kʰa		tʰìiʔɔj	tʰìtɕíɴ		tʰè
Pejorative		kəj		ketɕʰɔ̀			kʰèle		

Figure 14.1: Register Terms

These terms can also be used to describe familial relations. Status corresponds to the position of kin in relation to one's generation, i.e., *inferior* corresponds to kin below one's generation, *equivalent* to kin within one's generation, and *superior* to kin above one's generation. Age corresponds to relative age, while formality corresponds to relative social status.

14.2 | Personal Names

A *personal name* in Timah consists of many elements.

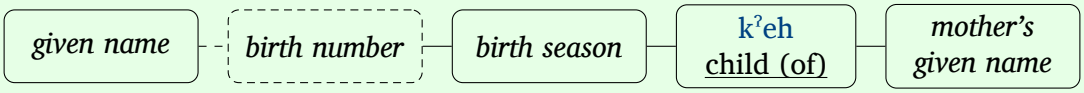


Figure 14.2: Personal Names

The elements «kˀeh (*mother's given name*)» may be repeated an arbitrary amount of times, each consecutive matriarch applying to the previous one.

15 | Ideophones

15.1 | Ideophonemes

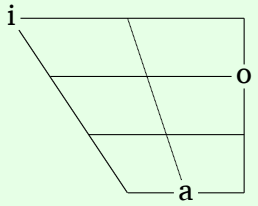
There exists a set of phonemes in Timah that can appear only in ideophones. These are called *ideophonemes*, and they cannot cluster (i.e., codae /ʔ h ɴ w j/ may not precede them). Basic consonants can appear in ideophones, but ideophones are restricted to a reduced vowel inventory.

	Labial	*Alveolar*	*Dorsal*
Nasal	ᵐb	ⁿd	ᵑg~ŋ
Liquid	ʙ̥ ʙ		ʀ̥~χ ʀ~ʁ

(a) Pulmonic

	Dental	*Alveolar*	*Lateral*
Tenuis	ǀ	!	ǁ
Aspirate	ǀʰ	!ʰ	ǁʰ
Nasal	ᵑǀ	ᵑ!	ᵑǁ
Glottal	ᵑǀʔ	ᵑ!ʔ	ᵑǁʔ

(b) Non-pulmonic



(c) Vowels

Figure 15.1: Ideophonemes

Additionally, the syllabic nasals /m̩ n̩ ŋ̍/ also appear, but only in isolation.

15.2 | 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

16 | Semantics & Pragmatics

16.1 | 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.

16.1.1 | 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 § 8.6.3*).

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

kˀitɔ̀	*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.

16.2 | Deixis

16.2.1 | Spatial/Temporal Deixis & Domains

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

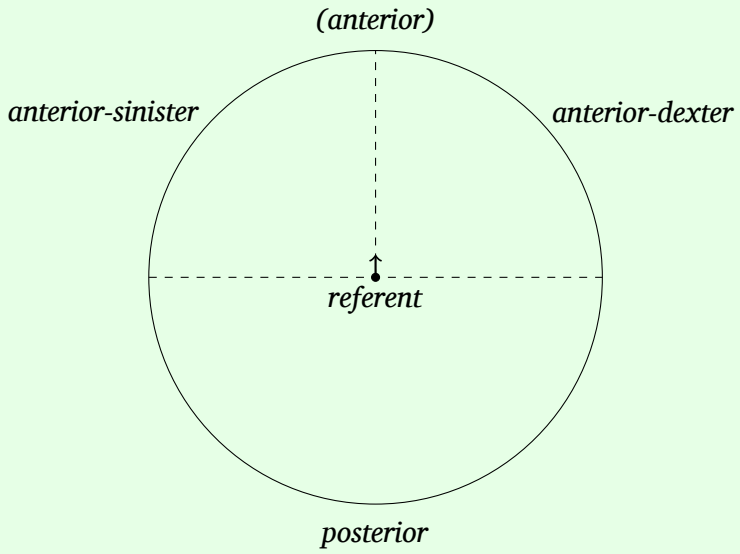


Figure 16.1: Deictic Space

17 | 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. 14*).

`TODO` all of this

A | Nominal Limitives

• tɕɔ̀ʔi (tɕʔè) : (ANIM) *n.* person, human, humanoid creature ‡ *cl.* people, all humanoids

• koɴ : (INAN, PNSTBL) *n.* place, location, area ‡ *cl.* places, locations

• keteh (kʔeh), tɕatih^{FP} : (ANIM) *n.* baby, offspring; child, young person ‡ *cl.* young (of an animal), offspring

• sisì (sʔìì) : (ANIM, PNSTBL) *n.* water, air; liquid, fluid; motion, movement ‡ *cl.* all fluids

• neh : (INAN) *n.* rock, stone, solid; immobility, inactivity ‡ *cl.* rocks, stones, natural solids; hard body parts e.g., shells, bone, teeth, nails

• tɕì : (ANIM) *n.* animal, creature, beast ‡ *cl.* all wild terrestrial animals excluding insects

• tɕasí : (INAN) *n.* tree, plant; foliage, vegetation ‡ *cl.* all non-edible plants

• sóósa : (INAN) *n.* container, vessel, receptacle ‡ *cl.* all containers; all foods that can contain other food

• kʔə́ʔe : (INAN) *n.* tool, instrument, weapon ‡ *cl.* all tools, instruments, weapons; functional body parts e.g., appendages, sensory organs

• tʰìlɔ́ : (ANIM) *n.* body; flesh, meat (living); physical form; body language, behavior

• tʰèʔ : (INAN) *n.* corpse; flesh, meat (dead/raw); death ‡ *cl.* soft body parts e.g., flesh, hair, skin; all animal-derived foods

• kʰàtí : (ANIM) *n.* flesh, meat (cooked); meal, feast

• jə́hɔ : (INAN) *n.* fruit; edible plant; the flesh of a fruit; flower ‡ *cl.* all plant-derived foods; all flowers

• ʔolowí (ʔoló) : (ANIM) *n.* season, the division of a year; time ‡ *cl.* time, all temporal concepts

• ma : (INAN) *n.* word, symbol, name; writing ‡ *cl.* all symbols, names

B | Verbal Limitives

• wə́ : (VOL, MVAL) *n.* move, walk, come/go

• mə́ : (VOL, MVAL) *n.* run, move quickly; jump, leap

• sʰɔj : (VOL, PVAL) *n.* carry, give/take

• niwi : (VOL, BVAL) *n.* consume, eat, drink

• tɕɔ́j : (VOL, PVAL) *n.* speak, write, communicate

• kʰajtè : (VOL, SVAL) *n.* hear, see, directly sense; read, understand

• hasì : (VOL, SVAL) *n.* smell, taste, indirectly sense

• jékɔ : (VOL, BVAL) *n.* feel, sense; know

• seʔmɔ́ : (VOL, PVAL) *n.* make, cause, do

• kʰo : (NVOL, AVAL) *n.* occur, happen, exist

• hɔnɔ́ : (VOL, BVAL) *n.* want, desire, wish

| m

• mísʰoh : (ANIM) *n.* aversion, repulsion, disgust ‡ (NVOL, BVAL) *v.* be averse, repulsed, disgusted

• melə (mii) : (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

| n

• níjò : (ANIM) *n.* awareness of something dangerous, premonition; warning, caution, advice; omen, prophecy; foresight ‡ (VOL, BVAL) *v.* warn, caution, advise; prophesize, foresee, predict

• nátɕè : (INAN) *n.* solid food ‡ (VOL, MVAL) *v.* prepare solid food

• nɔ́mɔ (nɔ́ɴ) : (ANIM) *n.* tooth; bite ‡ (VOL, BVAL) *v.* bite, chew

| tʰ, t, tˀ

• tʰaʔwá (tʰáw) : (ANIM) *n.* yak, cow, dzo; wisdom, strength, power; work, effort ‡ (VOL, BVAL) *v.* be a yak, cow, dzo; be wise, strong, powerful; (do) work, put effort into

• tɔnlá : (ANIM) *n.* voice, sound; song, music ‡ (VOL, MVAL) *v.* make sound, music; sing

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

| tɕʰ, tɕ, tɕˀ

• tɕʰàsˀah (tɕʰàʔ) : (INAN) *n.* that which is contained; injury ‡ (VOL, BVAL) *v.* contain (within); incapacitate, debilitate

• tɕii : (INAN) *n.* sand, dust, gravel, grain; sugarcane, sugar, sweetness ‡ (VOL, BVAL) *v.* separate, crumble; be particulate, granular; be sweet

• tɕóhkʰə (tɕoh) : (INAN) *n.* milk, fat ‡ (NVOL, MVAL) *v.* be/have/drink milk; be fat

| kʰ, k, kˀ

• kʰə : (ANIM) *n.* breast; fat ‡ (VOL, BVAL) *v.* produce milk; nurture, care (for)

• kʰòo : (ANIM) *n.* fingers, hand, arm ‡ (VOL, BVAL) *v.* touch, interact (with)

• kiʔəj (kˀii) : (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[FP] : (INAN) *n.* any grain, cereal or pulse; bread ‡ (VOL, MVAL) *v.* grow/harvest grain

• kála (kɔ́ɔ) : (ANIM) *n.* fish; conspiracy, scheme ‡ (VOL, MVAL) *v.* fish, go fishing; conspire, scheme

• kˀètɕˀè (jáɴ), jáɴ[NI] : (ANIM) *n.* friend, spouse; expected accompaniment; friendship, relationship ‡ (VOL, BVAL) *v.* accompany; be in a relationship

| ʔ

• ʔeláw (lóo) : (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)

• ʔəhee : (INAN) *n.* cold food; raw food; something to be made cold ‡ (VOL, MVAL) *v.* prepare cold food; cool, make cold

• ʔaná : (INAN) *n.* injury, damage; sickness; immobility, laziness; rope ‡ (VOL, BVAL) *v.* injure, damage; make immobile; be lazy; tie (up), bind, restrain

• ʔaɴko : (INAN) *n.* bed, place of rest; sleep, rest; dream, hallucination ‡ (VOL, MVAL) *v.* sleep, rest; dream, hallucinate

| sʰ, s, sˀ

• sènáj (sə́j) : (ANIM) *n.* bear; fear ‡ (NVOL, MVAL) *v.* be a bear; be afraid

• setˀoʔ : (ANIM) *n.* river, moving body of water; narrow portion of material, strip ‡ (VOL, BVAL) *v.* travel by river, moving body of water; make into narrow portions, strips

• sələn : (ANIM) *n.* intestines, that which is digested ‡ (NVOL, BVAL) *v.* digest, break down (naturally); dissolve

• sˀə́láw : (INAN) *n.* saraw plant, a squat wide-leafed plant used as material on which to write; the leaf of the saraw plant; any material on which one writes ‡ (VOL, MVAL) *v.* harvest (the leaves of) a saraw plant; write

• sóo : (INAN) *n.* excrement, waste ‡ (NVOL, MVAL) *v.* excrete, produce waste

• sɔ̀jsi : (ANIM) *n.* hot food; cooked food; something to be made warm ‡ (VOL, MVAL) *v.* prepare hot food; heat, make warm

| h

• hələ́o : (INAN) *n.* root; source, origin, cause; stability ‡ (NVOL, BVAL) *v.* be a source, origin; cause; be stable; stabilize

• hòɴ : (ANIM) *n.* dog, wolf, canine; any domesticated animal ‡ (NVOL, BVAL) *v.* be a dog; domesticate

| w

• wìɴ : (ANIM, PNSTBL) *n.* rain, precipitation ‡ (NVOL, AVAL) *v.* rain, precipitate; fall, come down, descend

• míɴwo : (ANIM) *n.* bird; flight; gossip ‡ (VOL, MVAL) *v.* be a bird; fly; gossip

• wítɕʰə : (INAN) *n.* weakness, laziness ‡ (NVOL, MVAL) *v.* be weak, lazy

• wíini (wíi) : (ANIM) *n.* cat; cleverness, wit ‡ (NVOL, MVAL) *v.* be a cat; be clever, witty

• wíkən (wén) : (ANIM) *n.* mouth, opening, orifice ‡ (VOL, BVAL) *v.* hold in one's mouth, suck; fellate

• wə́wkʰo (wóʔ) : (INAN) *n.* that which is broken; breakage, damage, injury ‡ (NVOL, BVAL) *v.* break, damage, injure; be broken, damage, injured

• wónəj (wój) : (INAN) *n.* small amount; poverty ‡ (NVOL, MVAL) *v.* have few; be poor

• wolòh : (INAN) *n.* snow, ice, frost, cold water ‡ (NVOL, AVAL) *v.* snow, hail, rain coldly

| l

• lìjókˀo (lìjóʔ) : (INAN) *n.* face, flat surface; table ‡ (VOL, BVAL) *v.* flatten, make flat; be flat; lay flat

• letʰitça (litçʰa) : (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

• lɔtçˀə́ : (ANIM) *n.* rain ceremony ‡ (VOL, MVAL) *v.* perform a rain ceremony

• lɔ́nlə (lɔ́n) : (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