

The Timah Language

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1 | Introduction

1.1 | External History

The Timah language (*Tíməh* [tʰiməh]) 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 and thus I given myself the freedom to take such liberties.

1.2 | Internal History

2 | Phonology

2.1 | Consonants

	Labial	Alveolar	Palatal	Velar	Glottal	Placeless
<i>Nasal</i>	m	n				N
<i>Plosive</i>		t ^h t t̚	tɕ ^h tɕ t̚ɕ	k ^h k k̚	ʔ	
<i>Fricative</i>		s ^h s s̚			h	
<i>Approximant</i>	w	l	j			

Figure 1: Consonant Phonemes

- /t^h t t̚/ are dental; /n s^h s s̚ l/ are alveolar.
- /tɕ^h tɕ t̚ɕ/ 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 |N|, i.e. not an uvular nasal¹.
- The aspirated obstruents /t^h tɕ^h k^h s^h/ may be accompanied by slight breathy-voice on the following vowel.
- The fortis obstruents /t̚ t̚ɕ k̚ s̚/ 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-initially.

¹Yes, I say /ən 'uvjələθ/. Deal with it.

- The coda archiphoneme [ŋ] 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 word-finally as [ŋ].
- The tenuis obstruents /t t̪ k s/ are voiced to [d d̪ g z] intervocally and after /N/.
- The aspirated obstruents /tʰ t̪ʰ kʰ sʰ/ are deaspirated to [t t̪ k s] intervocally and after /N/.
- /kʰ/ surfaces as [x] before /a/.
- /n/ is palatalized to [ɲ] before [i] word-medially.
- The sibilants /sʰ s ʃ/ are palatalized to [çʰ ç ʃ] before /i/. [ç] is voiced to [ʒ] and [çʰ] is deaspirated to [ç] intervocally and after /N/.
- /l/ surfaces as [r] intervocally and after /N/.
- /w/ surfaces as [ʋ] before /i/.

2.1.2 | Dialectal Variations of Consonants

- /tɕʰ tɕ tɕ̥/ may surface as alveolar affricates [tsʰ ts ts̥] in some^[which?] dialects.
- In some^[which?] dialects, the lateral [l] has merged with either /j/ or /n/.
- In some^[which?] dialects, the glottal fricative /h/ may be realized as pharyngeal [ħ].
- The lateral /l/ may variously surface as any of [ɭ ɭ ɭ ɭ̥ ɭ̥ ɭ̥], depending on dialect^[which ones?] and idiolect.

2.2 | Vowels

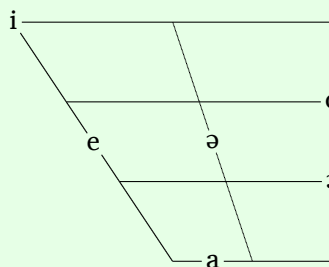


Figure 2: Vowel Phonemes

- /e/ is true mid [e̞]².
- /a/ is near-front [a] (i.e. not central [ä]).

²[ɛ ɔ] will be transcribed as [e o] for the sake of brevity.

2.2.1 | Vowel Allophony

- All vowels are nasalized before nasal consonants.
- /i/ surfaces as [i̠] after the velars /k^h k ɰ/ and before coda [ŋ]
- /o ɔ/ raise to [u ɔ]² word-finally in open syllables and when preceded by /k^h k ɰ w/.

2.2.2 | Dialectal Variations of Vowels

- Some^[which?] dialects have merged the back mid vowels /o ɔ/ into true mid [ɔ].
- Some^[which?] dialects have merged the back the front vowels /i e/ into [i~ɪ]

2.2.3 | 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 /ʔ h/ are grouped as *dead*.

Open syllables (i.e. syllables with a short vowel) are superseded by live syllables but take precedence over dead syllables in terms of stress hierarchy.

2.2.4 | 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. If ambiguous, vowels are assumed to be of the +ATR class.

+ATR (Light)	i	e	ə	o
–ATR (Heavy)	e	ə	a	ɔ

Figure 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/) and non-harmonizing morphemes, e.g. clitics and certain affixes.



Figure 4: Harmony Spread

2.3 | 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, unmarked tone can be affected by various tonological processes such as *tone association* and *tone spread*.

2.3.1 | 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.

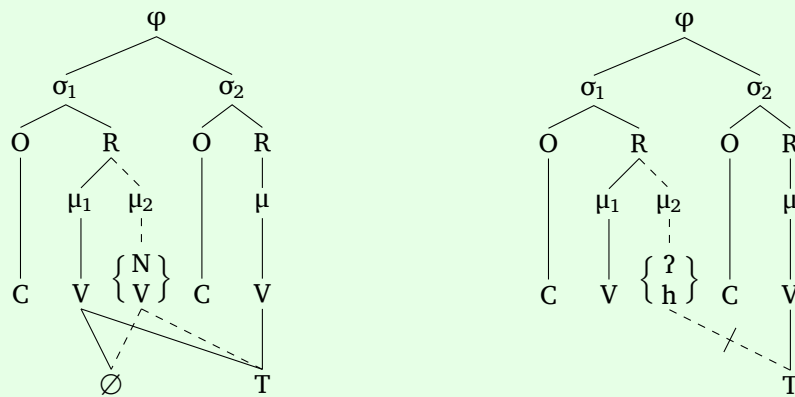


Figure 5: Tone Association

2.3.2 | Tone Mobility

2.3.2.1 | 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.

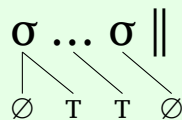


Figure 6: Leftward Tone Shift

2.3.2.2 | Rightward Tone Shift

2.4 | Phonotactics

2.4.1 | Syllable Structure

$$CV(T)(V^3(T)|H|S)$$

$$H = \{ʔ, h\}$$

$$S = \{N, w, j\}$$

$$T = \{ó, ò\}$$

Figure 7: Syllable Structure

2.4.2 | Restraints

These phonotactic restraints govern allomorphy.

- The nasal coda /N/ 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/.

2.5 | Phonological Processes

2.5.1 | Obstruent Alterations

2.5.2 | Approximant Nasalization

3 | Orthography

4 | Syntax

4.1 | Sentence Structure

Word order in Timah is primarily *Subject-Object-Peripheral-Verb* in independent clauses, and secondarily *Verb-Subject-Object-Peripheral* in dependent clauses. Only the *verb* must be present.

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

The *Object*, or syntactic patient, 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)*.

³Long vowel codae must be homorganic in vowel quality but not necessarily in tone quality.

The *Peripheral*, or indirect object, is the thing that the verb is indirectly performed upon. It is usually marked with a *postposition* (cf. § 5.4) and consists of *noun* or *prepositional phrase(s)*.

The *Verb* is the action that is performed within a statement. It consists of one or more *verb phrase(s)*. Some verbs may not take a subject or object (cf. § 6.2).

4.2 | Alignment

The morphosyntactic alignment in Timah is a type of dually-split-ergative. *Realis* nouns align in an *active-stative* manner, while *Irrealis* nouns align in an *ergative-absolutive* manner.

The *active-stative* alignment is only used on realis arguments and is split-S, i.e. the case of the subject of a monovalent verb is determined by the verb's inherent *volitional class* (cf. § 6.3). Volitional verbs' subject takes the agentive case, while non-volitional verbs' subject take the patientive case. In *multivalent* (i.e. an ambivalent or polyvalent verb that takes two or more arguments, cf. § 6.2) verbs, the agentive marks the subject and the patientive marks the object.

The *ergative-absolutive* alignment is used only on irrealis arguments. In multivalent verbs, the *ergative* marks the subject and the agentive marks the object. In monovalent verbs, the agentive marks the subject.

Timah is secundative, with the theme of a trivalent verb (i.e. a polyvalent verb that takes three arguments) being marked by the postposition *lí* (cf. § 5.4).

5 | Nouns

5.1 | Pronouns

5.1.1 | Personal

		Agt.	Pat.	Assoc.	Loc.			Agt.	Erg.	Assoc.	Loc.
	1	lə	ləhi	jəN	s ^h aj						
Sg.	2	nó	nɔ		nò						
	3	təʔ	təhi	tɕàN	kéh						
			han								
	1	to	tò	ɬáw							
Pl.	2	nɔ́	nɔ́	néj							
	3	ɬóʔ	ɬóhi	tɕ ^h ON	kèè						
			t ^h ɔN								

(a) *Realis*

		Agt.	Erg.	Assoc.	Loc.
	1	ká	tàʔ	tɕà	ləj
	2	nɔ́		nəw	só
	3	səsá		kín	ʃəw

(b) *Irrealis*

Figure 8: Personal Pronouns

5.1.2 | Interrogative/Relative

5.1.3 | Demonstrative

5.2 | Article Enclitics

Articles in Timah attach as enclitics to the final element of their head noun phrase.

	Referential		Non-referential	
	Visible	Non-visible	Visible	Non-visible
<i>Singular</i>	= mój	= haN	= ši	= tʃéʔ
<i>Plural</i>	= kə	= mé	= kʰəN	= tʃáá

Figure 9: Article Enclitics

5.3 | Declensions

5.3.1 | Cases

- Agentive (*Agt.*) : In *multivalent* verbs (i.e. *ambivalent* or *polyvalent* verbs that take two or three arguments, cf. § 6.2), the *agentive* case marks a realis subject or an irrealis object. In *monovalent* verbs, it marks a volitional realis subject (cf. § 6.3) or irrealis subject.
- Patientive (*Pat.*) : In polyvalent verbs, the *patient* case marks a realis object. In monovalent verbs, it marks a non-volitional realis subject.
- Ergative (*Erg.*) : In polyvalent verbs, the *ergative* case marks an irrealis *subject*. It also indicates an inalienable genitive.
- Associative (*Assoc.*) : The *associative* case marks alienable relations that can be further clarified using prepositions.
- Locative (*Loc.*) : The *locative* case marks physical and/or temporal location and movement that can be expanded upon using prepositions.

	Realis	Irrealis		Realis	Irrealis
<i>Agt.</i>	-Ø	-né	<i>Agt.</i>	-Ø	-té
<i>Pat.</i>	-si	-sén	<i>Pat.</i>	-si	-sén
<i>Erg.</i>	-ʔi	-ho	<i>Erg.</i>	-ki	-kʰo
<i>Assoc.</i>	-wɔ		<i>Assoc.</i>	-kɔ	
<i>Loc.</i>	-tʃó	-je	<i>Loc.</i>	-tʃó	-se
(a) Open			(b) Closed		

Figure 10: Cases

The *Associative* and *Locative* cases may be accompanied by a postposition (cf. § 5.4). 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).

5.4 | 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*
- ɬe : *lack of accompaniment/use*
- sɪ : *intent of reference/relation*
- kʰono : *intent of benefit/purpose*
- tɕé : *state of being*
- kʰò : *change of state*
- kéh : *similarity/comparison*
- ɬɔka : *causation*

- *Locative Postpositions*

- tí : *movement toward*
- sʰì : *movement away from*
- mí : *movement onto*
- tɕɔɔ : *movement under*
- tʰísé : *movement into*
- siiʔi : *movement out of*
- tɕoli : *beginning of movement/time*
- ʔan : *end of movement/time*
- kanʔɔ : *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*

5.5 | Noun Classes

Noun classes in Timah are separated into the groups *Realis* and *Irrealis*, which are in part related to verbal modality (cf. § 6.4.4), but are also determined by the speaker's semantic notion of existence concerning the noun in question as well as the noun's state of focus (cf. § 10.2).

The *Realis* group is further divided into the classes *Animate* and *Inanimate*, and also distinguishes the *Singular* and *Plural* numbers. The *Irrealis* group does not make any of these distinctions in isolation, but number can be indicated by articles (cf. § 5.2).

The concepts of *realis* and *irrealis* are directly associated with *yaks* and *tigers*, respectively (cf § 10.1). Yaks and things closely associated with yaks are obligatorily marked as *realis*, while tigers and things closely associated with tigers are obligatorily marked as *irrealis*.

Nouns are also divided into *count* nouns and *non-count* nouns. *Count* nouns are inherently singular and are marked for plural, while *non-count* nouns are inherently transnumeral (i.e. number is underspecified) and are marked for singular or plural. *non-count* nouns are also unmarked for inanimacy instead of animacy.

	<i>Realis</i>		<i>Irrealis</i>
	<i>Animate</i>	<i>Inanimate</i>	
<i>Singular</i>	Ø-	kaw-, kɔ-	wí-
<i>Plural</i>	tɔ-	jé-	
<i>(a) Count</i>			

	<i>Realis</i>		<i>Irrealis</i>
	<i>Animate</i>	<i>Inanimate</i>	
<i>Collective</i>	na(N)-	Ø-	kɔ́-
<i>Singulative</i>	sé-	kəw -, ko-	wí-
<i>Plurative</i>	to-	jí-	
<i>(b) Non-count</i>			

Figure 11: Noun Classes

6 | Verbs

6.1 | Active & Stative Verbs

6.2 | Valency Classes

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

- *Avalent* verbs take zero arguments.

- *Monovalent* verbs take one argument.
- *Ambivalent* verbs take one or two arguments.
- *Polyvalent* verbs take two or more arguments.

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

6.2.1 | Valency-Altering Operations

6.3 | Volitional Classes

Verbs are inherently classed as either *volitional* or *non-volitional*. These classes determine the case of the subject in monovalent verbs, as well as semantic intention regardless of valency.

Volitional verbs usually denote an action that is intentionally performed by the subject.

Non-volitional verbs usually denote an action that is accidentally performed by the subject.

6.4 | Conjugations

6.4.1 | Pronominal Proclitics

Pronominal proclitics are appended to verb phrases and must agree with the subject. Subject pronouns can subsequently be dropped from the statement entirely.

			<i>Realis</i>	<i>Irrealis</i>
<i>Sg.</i> ⁴	1		lə =	ká =
	2			nó =
	3	<i>Anim.</i> <i>Inan.</i>	tə = ha =	sá =
<i>Pl.</i>	1		to =	
	2		nɔ =	
	3	<i>Anim.</i> <i>Inan.</i>	tʰó = tʰɔ =	

Figure 12: Pronominal Proclitics

⁴*Irrealis* pronominal proclitics can be either singular or plural, but are grouped under *Singular* due to how they pattern.

6.4.2 | Voice

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 *salience* of the patient, i.e. if the patient is or is not significantly affected by the agent.

	<i>Salient</i>	<i>Non-salient</i>
<i>Actor</i>	-tá	-tɕà
<i>Undergoer</i>	-ʃʃó	-jéà
<i>Correlative</i>		-mótè

Figure 13: Voice

6.4.3 | Expressive Moods

There are three moods in Timah that are independent from normal moods. These are called *Expressive Moods*, and are placed at the beginning of a statement.

- tɕó : **Imperative**; *commands, wishes, desires*
- s^ha : **Interrogative**; *questions, requests*
- kì : **Precative**; *polite requests and commands*

6.4.4 | Mood & Aspect

	<i>Perfective</i>	<i>Habitual</i>	<i>Continuous</i>	<i>Experiential</i>	<i>Capacitive</i>
<i>Indicative</i>	laj-, le-	ka(?)-	tɕee-	tɕíhi-	həw-, ho-
<i>Conditional</i>	haj-, he-	tew-, tə-	s ^h e(?)-	já-	?àti-
<i>Dubitative</i>	k ^h à-		sà(N)-	ta?e-	nəw-, nò-
<i>Desiderative</i>	sò-		s ^h e?té-	je?i(h)-	mátɕa-
<i>Necessitative</i>	séme-		tɕ ^h ɔɔ-	kìtə(N)-	

Figure 14: Aspect & Mood

6.4.5 | Evidentiality

Timah optionally marks four levels of evidentiality. Evidentiality markers are placed before their head verb.

- k^hek^hì : **Witness**; *knows of event directly*
- səsɔN : **Evidential Inferential**; *knows of event via evidence*
- tɔNke : **Anecdotal Inferential**; *knows of event via prior experience(s)*
- móhɔ : **Reportative**; *knows of event indirectly*

6.4.6 | Venitive, Andative & Applicatives

The *venitive* and *andative* suffixes are commonly used with verbs of movement, such as *wá* move, *wá* walk, *s^hɔj* carry, *gɔ* give/take, and others.

- -tí : **Venitive**; *motion toward*
- -s^hì : **Andative**; *motion away from*

Applicatives are valency-increasing operations that promote an oblique (indirect) object to the role of the (direct) 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.

- -lí : **Relational**; *accompaniment*
- -k^hòN : **Beneficial**; *intent of reference/relation or benefit/purpose*
- -tɔʔ : **Causal**; *causation, final causation*
- -kéh : **Complemental**; *similarity/comparison, state of being*
- -tɔ̀ò : **Locational**; *physical or temporal location and movement*
- -tɔ̀N : **Peripheral**; *beginning/end of movement/time*
- -sɔʔ : **Positional**; *relative physical or temporal location and movement*

Further specifications can be made by supplementing the applicative suffix with a postposition (cf. § 5.4) placed after the object.

6.5 | Serial Verb Constructions(?)

6.6 | Noun Incorporation(?)

6.7 | Essential Copulae

6.7.1 | Assertive-Essential

6.7.2 | Negative-Essential

6.7.3 | Revelatory-Essential

6.8 | Existential Copulae

6.8.1 | Assertive-Existential

6.8.2 | Negative-Existential

6.8.3 | Revelatory-Existential

7 | Adjectives & Derivation

There are eleven true adjectives (which can also function as adverbs) in Timah. They are placed before their head noun or verb.

- tɕʰàné : *good, positive; full*
- sìnkà : *bad, negative; empty*
- kʰɔ̌kɔ̌ : *big, strong; many*
- tɕʰi : *small, weak; few*
- semɔ̌ʔ : *fast; loud; hard, rough*
- lɔ̌ : *slow; quiet; soft, smooth*
- sɔ̌n : *short, wide; feminine*
- ʔin : *long, narrow; masculine*
- tɕʰósʰa : *white, light; fresh, new*
- káj : *warm (color); hot, dry*
- sɔ̌tɕe : *cool (color); cold, wet*
- tʰawsá : *black, dark; stale, old*

7.1 | Derivation

Noun and verbs can be zero-derived from each other, i.e. no overt marking is used to change a noun to a verb and vice versa. More derivations are possible by appending an adjective before a noun or verb, i.e. attaching it as a prefix.

8 | Numerals

Timah uses a base-60 numeral system.

9 | Ideophones

There are three types of ideophones in Timah: *phonomimes*, *phenomimes*, and *psychomimes*.

Phonomimes imitate sounds directly.

Phenomimes imitate sounds associated with tangible states and conditions.

Psychomimes imitate sounds associated with intangible states and conditions.

10 | Semantics & Pragmatics

10.1 | Yak/Tiger Dichotomy

10.2 | Existence & Focus

10.3 | Deixis