

# 1. A Guide to the Tinellbian Languages

This is a grammar of the languages of Tinellb. All these languages descend from a single common ancestor, High Lulani. Lulani and its descendants were taken into each of the Ptokan worlds by the Gi

## 1.1 High Lulani

𐌒𐌔𐌚 Created by Queen Loren on Mala Ptokonoi.

## 2. Introduction

The Tinellbian languages are a range of constructed languages, as befits the constructed universe of Tinellb. In that world, the ancestor language was created by Queen Loren of the Ptokonoi, and then evolved naturally as different groups of people moved through space, time and reality.

## 3. History

The internal history of the Guozu and their languages is written as if it were a chronicle of actual events. The external history is the more prosaic record: a description of the genesis and evolution of my ideas.

## 4. Internal History

Within the universe named Tinellb, there is a planet named Ptoko. There arose on this world a race of humanoid, the Ptokan. Over millions of years, their race evolved and became the dominant force on the planet.

There had been many conflicts, small and large, throughout their history. One particularly bloody war had much of the population brought into it: a World War. The survivors of this war were ruled by a simonarch.

Generations passed. The people rebuilt their shattered world. The newest ruler, Queen Loren, decided to create an international language to promote peace amongst her subjects. She named this language Lulani after herself.

Despite their shared language, as more time went by, fractures again showed between nations. Another world war ensued. A great weapon was created, one that tore apart space-time, flinging its victims far into the universe.

One such group were the Fezhel. They found themselves on an empty world. The Fezhel tongue evolved independently from Lulani, and was later heavily influenced by Zhaladi dialects.

The people that remained on Ptoko slowly grew back towards peace. Their vernacular evolved into Ptokan, and thence into Tsarin. By the time of Tsarin, Lulani was used only for science and the arts, not for everyday use.

Tsarin was spoken in the realm of Tsarein.

- HL: High Lulani
- VL: Vulgar Lulani
- EF: Early Fezhel
- LF: Late Fezhel
- KF: Koine Fezhel
- OP: Old Ptokan
- MP: Middle Ptokan
- SP: Standard Ptokan
- AS: Ancient Solajin
- MS: Medieval Solajin
- CS: Contemporary Solajin
- NS: New Solajin
- PZ: Proto-Zhaladi
- TZ: Traditional Zhaladi
- RZ: Reformed Zhaladi
- PB: Pre-Brequèn
- AB: Archaic Brequèn
- CB: Common Brequèn
- CT: Classical Tsarin
- MT: Modern Tsarin

## 5. External History

I have been interested in language and linguistics since at least the age of 10. I remember making up words when I was quite young. In fact, the High Lulani word **mica** ᄁᄁ *hello* dates from that time.

When I decided to write a novel, a constructed language (conlang) was an obvious prospect for inclusion in the background information. I had the beginnings of what was to be the Ptokan language, and the language of the Fezhel. The latter was once designed as a daughter language of Ptokan, but it had some features, mostly phonological, that seemed to come from an earlier language. Thus was Lulani born. Originally intended to be a phonology sketch, Lulani has expanded greatly into a language in its own right. So much so, in fact, that Ptokan and Fezhel have been forced to change somewhat to adapt.

## 6. High Lulani

High Lulani is the language created by Loren, queen of the Ptokonoi. It features a semi-closed verb and extensive compounding. It has a featural script.

## 7. Phonology

High Lulani phonology has 18 consonant sounds and 3 vowels. Plosives are the only class that have voicing distinction; fricatives are prototypically voiceless, and resonants are prototypically voiced. Vowels are defined in terms of openness and frontness; there are no oral, length or tone distinctions. All High Lulani words are formed from alternating consonant-vowel pairs. Any word-internal consonant can be geminated, which can palatalise or change the voicing of the original sound.

This page will show each of the International Phonetic Alphabet characters used in High Lulani pronunciations.

Consonant	Example	Consonant	Example	Consonant	Ex:
b	ba'u	h	hisuba	ɲ	jan
b <sup>h</sup>	sabba	j	faʔa <sup>1</sup>	ŋ	qa
c	qacca	ʃ	jusi	p	'ap
c <sup>h</sup>	cu'i	ʃ <sup>h</sup>	majja	p <sup>h</sup>	put
ɸ	xu'a	k	takki	r	gur
d	daru	k <sup>h</sup>	ka'u	ɾ	rus
d <sup>h</sup>	'adda	l	lisa	s	sipɿ
f	fara	ʌ	mullu	t	nitt
g	gusu	m	mullu	t <sup>h</sup>	ta'i
g <sup>h</sup>	saggi	n	nisa	ʔ	xu'

<sup>1</sup>The phone /j/ only appears as the second segment of an allophonic variant of /ʔ/, when that source geminated.

Vowel	Example	Vowel	Example
a	batu	ə	su'a
i	bitta	ɨ	kasi
u	cura	ʉ	lulani

The suprasegmental symbols are all exemplified in /,p<sup>h</sup>am.ɨ.'lam.ɨ/.

## 8. Consonants

Consonants are differentiated by manner and place of articulation, and by word-internal gemination. Plosives also have contrasting voice.

	labial	alveolar	retroflex	palatal	velar	glottal
stop	p b	t d		c ɟ <j>	k g	ʔ <'>
nasal	m	n			ŋ <q>	
lateral		l				
tap			ɽ <r>			
fricative	f	s		ɸ <x>		h

This table shows the consonants phonemically, using the International Phonetic Alphabet. Where it differs from IPA, the transliteration is given in <triangular brackets>.

Capital or geminate glottal stops are transliterated with <ʔ>. Examples:

- ba'u — usual word-internal glottal stop
- nasiʔu — geminate word-internal glottal stop
- 'usu — usual glottal stop within sentence
- ʔusu — capitalised glottal stop at beginning of sentence
- ʔallisi — capitalised glottal stop for proper noun (Alice)

### 8.1 Stops

Stops are differentiated by voicing, although voiced consonants tend to be rarer than their voiceless counterparts.

The voiced stops are fully voiced word-internally and partially voiced word-initially. Voiced gemin stops are given breathy voice. Voiceless stops are lightly aspirated, which is suppressed in voiceless geminate stops.

Geminate stops are held for approximately twice as long as non-geminate stops.

### 8.1.1 Labials

The plosives /p/ and /b/ are bilabial.

**pu'iba** /p<sup>h</sup>ʰ.ʔib.ə/ ᠰᠤᠪᠢᠪᠠ *ball*  
**qapi** /'ŋap<sup>h</sup>.ɨ/ ᠬᠠᠫᠢ *rope*  
**kuppu** /'k<sup>h</sup>up.pʰ/ ᠬᠤᠫᠤᠫᠤ *be strong*  
**bufi** /'buf.ɨ/ ᠪᠤᠫᠤ *pebble*  
**huba** /'hub.ə/ ᠬᠤᠪᠠ *to live*  
**kibba** /'k<sup>h</sup>ib<sup>h</sup>.b<sup>h</sup>ə/ ᠬᠢᠪᠪᠠ *stick*

### 8.1.2 Alveolars

The plosives /t/ and /d/ are apical.

**turassi** /t<sup>h</sup>ʰ.ʔas.sɨ/ ᠲᠤᠷᠠᠰᠢ *redhead*  
**fi'atu** /fi.ʔat<sup>h</sup>.ʰ/ ᠫᠢᠠᠲᠤ *certain*  
**matta** /'mat.tə/ ᠮᠠᠲᠤ *again*  
**daru** /'daɾ.ʰ/ ᠳᠠᠷᠤ *road*  
**xidu** /'ɕid.ʰ/ ᠬᠢᠳᠤ *far away*  
**kuddu** /'kud<sup>h</sup>.d<sup>h</sup>ʰ/ ᠬᠤᠳᠤ *rain*

### 8.1.3 Palatal

The plosives /c/ and /ɟ/ are laminal. In fast speech, they can approach the affricates /tʃ/ and /dʒ/.

**cissa** /'c<sup>h</sup>is.sə/ ᠴᠢᠰᠤ *air*  
**xuci** /'ɕuc<sup>h</sup>.ɨ/ ᠬᠤᠴᠢ *feather*  
**nacca** /'nac.cə/ ᠨᠠᠴᠤ *clothing*  
**jagaru** /ɟə.'gaɾ.ʰ/ ᠵᠠᠭᠠᠷᠤ *sand*  
**sajimu** /sə.'ɟim.ʰ/ ᠰᠠᠵᠢᠮᠤ *crack*  
**majja** /'maj<sup>h</sup>.ɟ<sup>h</sup>ə/ ᠮᠠᠵᠠ *here*

### 8.1.4 Velars

The velar plosives are /k/ and /g/.

**ka'u** /'k<sup>h</sup>aʔ.ʰ/ ᠬᠠᠤ *jump*  
**'isaki** /ʔi.sak<sup>h</sup>.ɨ/ ᠶᠢᠰᠠᠬᠢ *company*  
**nukki** /'nuk.kɨ/ ᠨᠤᠬᠢ *strawberry*

**gurrisu** /'gur.rɪ.sʊ/ ᠭᠦᠷᠢᠰᠤ *door*

**danagi** /də.nag.ɨ/ ᠳᠠᠨᠭᠢ *decree*

**saggi** /'sag<sup>h</sup>.g<sup>h</sup>ɨ/ ᠰᠠᠭᠢ *iron pyrites*

### 8.1.5 Glottal

The glottal stop /ʔ/ is one of the most common sounds. Non-geminate glottal stops are often supplied between unstressed vowels. The second of a geminate glottal stop becomes a palatal approximant /j/

**'anu** /'ʔan.ʊ/ ᠠᠨᠤ *to balance*

**kuli'a** /k<sup>h</sup>ʊ.'liʔ.ə/ ᠬᠤᠯᠢᠠ *friend*

**nasiʔu** /na.'siʔ.jʊ/ ᠨᠠᠰᠢᠶᠤ *sheep*

## 8.2 Nasals

There are nasal consonants at each of the places of articulation of the plosives. However, the palatal is only found when geminating the alveolar nasal. Nasals are prototypically voiced. Geminate nasals are held for 1 ½ times as long as non-geminates.

### 8.2.6 Labial

The labial nasal /m/ is bilabial.

**mana** /'man.ə/ ᠮᠠᠨᠠ *bubble*

**salumi** /sə.'lum.ɨ/ ᠰᠠᠯᠤᠮᠤ *seven*

**girammi** /gɨ.'ɾam.mɨ/ ᠭᠢᠷᠠᠮᠤ *thunder*

### 8.2.7 Alveolar

The alveolar nasal /n/ is apical. When geminated, this sound is palatal and laminal.

**nu** /nuː/ ᠨᠤ *to stop*

**lulani** /lʊ.'lan.ɨ/ ᠯᠤᠯᠠᠨᠢ *queen*

**sinna** /'siŋ.ŋə/ ᠰᠢᠨᠨᠠ *story*

### 8.2.8 Velar

The nasal /ŋ/ is velar.

**quliru** /ŋʊ.'liɾ.ʊ/ ᠬᠤᠯᠢᠷᠤ *family*

**kunaqi** /k<sup>h</sup>ʊ.'naŋ.ɨ/ ᠬᠤᠨᠠᠻᠢ *earth*

**laqqu** /'laŋ.ŋʊ/ ᠯᠠᠻᠤ *wealth*

## 8.3 Liquids

The liquids are mainly differentiated by laterality. This language lacks phonemic glides. Like nasal approximants are prototypically voiced, and geminates are held for 1 ½ times as long as non-geminates.

The consonant /l/ is lateral and apical. When geminated, this sound is laminal and palatal.

The consonant /r/ is central, retroflex and sub-apical. When geminated, this sound becomes a trill.

**lassi** /'las.sɨ/ ᐱᐱᐱ *baby*  
**kulu** /'k<sup>h</sup>ul.ʈ/ ᐱᐱᐱ *fork*  
**malliju** /'maʌ.ʌɨ.ʈ/ ᐱᐱᐱᐱᐱ *happiness*  
**ru'iha** /ʈʈ.'ɨh.ə/ ᐱᐱᐱ *history*  
**karafi** /k<sup>h</sup>ə.'ɾaf.ɨ/ ᐱᐱᐱ *enlightenment*  
**qarri** /'ɲar.rɨ/ ᐱᐱᐱ *to open*

## 8.4 Fricatives

Fricatives do not have complete closure of the vocal tract, but are formed with enough constriction bring turbulence to the airstream.

Fricatives are prototypically voiceless. The lips remain unrounded for all fricatives unless followed preceded by a rounded vowel. Geminate fricatives are held for 1 ½ times as long as non-geminates.

### 8.4.9 Labial

The fricative /f/ is realised as labiodental.

**faxi** /'faɸ.ɨ/ ᐱᐱᐱ *to survive*  
**bufiqi** /bʈ.'fiŋ.ɨ/ ᐱᐱᐱᐱᐱ *illness*  
**'iffa** /'ɨif.fə/ ᐱᐱᐱ *it*

### 8.4.10 Alveolar

The fricative /s/ is apical.

**sikka** /'sik.kə/ ᐱᐱᐱ *skin*  
**husabi** /hu.'sab.ɨ/ ᐱᐱᐱᐱᐱ *finger*  
**'alissa** /ʔə.'lis.sə/ ᐱᐱᐱᐱᐱ *requirement*

### 8.4.11 Palatal

The palatal fricative /ç/ is laminal.

**xaha** /'çah.ə/ ᐱᐱᐱ *name*  
**puxila** /p<sup>h</sup>ʈ.'çil.ə/ ᐱᐱᐱᐱᐱ *message*  
**dixxa** /'diç.çə/ ᐱᐱᐱᐱᐱ *drink*

### 8.4.12 Glottal

The fricative /h/ is a voiceless sound. When geminate, it is pronounced as a palatal fricative.

**hannaku** /'haŋ.ŋə.kʈ/ ᐱᐱᐱᐱᐱ *cat*  
**tihu** /'t<sup>h</sup>ih.ʈ/ ᐱᐱᐱ *to dwell*  
**quhha** /'ɲuç.çə/ ᐱᐱᐱᐱᐱ *river*

## 9. Vowels

There are three phonemic vowels, with two main allophones for each. The vowels are distinguished by closeness and frontness.

	front	central	back
close	i	(ɨ) (ɯ)	u
mid		(ə)	
open	a		

There are three phonemic vowels: two close vowels and one open. These are given in the above chart with the variant allophones in (round brackets). The central and mid vowels are considered the lax variants.

### 9.1 Front

The front close vowel is unrounded. It is realised as /i/ or /ɨ/.

**mici** /'mic.ɨ/ 𐌱𐌿𐌸 *peace*  
**salilu** /sə.'lil.ɯ/ 𐌺𐌵𐌶𐌵 *night sky*  
**dibada** /dɨ.'bad.ə/ 𐌲𐌴𐌶𐌴 *life*

### 9.2 Open

The open vowel is unrounded. It can be realised as /a/ or /ə/.

**kanama** /kʰə.'nam.ə/ 𐌺𐌴𐌶𐌴𐌹 *to play*  
**naru** /'nar.ɯ/ 𐌺𐌴𐌶𐌴 *slowly*  
**'i'uja** /ʔɨ.ʔuʃ.ə/ 𐌶𐌴𐌶𐌴 *table*

### 9.3 Back

The back close vowel is rounded. It can be realised as /u/ or /ɯ/.

**mulu** /'mul.ɯ/ 𐌺𐌴𐌶𐌴 *blood*  
**hulla** /'huʌ.ʌə/ 𐌲𐌴𐌶𐌴 *to have sex*  
**riccu** /'ɾic.ɯ/ 𐌲𐌴𐌶𐌴 *sphere*

## 10. Phonotactics

Phonemically, all syllables are CV, that is, one consonant followed by one vowel. Word-internal consonants can be geminated. The only consonant clusters are geminate consonants, and there are no phonemic vowel clusters or long vowels.

## 11. Suprasegmentals

## 11.1 Syllabication

Syllable breaks are placed between two geminate consonants.

**bat.ta**

If there are no geminates, then the final vowel, and every second vowel going backwards are their own syllables.

**tuc.i**

**lu.lan.i**

**pam.i.lam.i**

These two rules are in order of priority, and two closed syllables can only appear next to one another if they both end in geminates, thus:

**jan.ni.ga**

**rad.dil.la**

## 11.2 Stress

There are four levels of stress which are assigned to particular forms of syllables. Stress effects the length and pitch of vowels. The top two levels are grouped together as ‘stressed’, leaving the other two levels as ‘unstressed’.

### 11.2.1 Primary Stress

Primary stress is characterised by tense vowels with a high pitch. In polysyllabic words, primary stress falls on the last closed syllable. Monosyllabic content words also receive this stress, although this is not explicitly marked in the pronunciation guide.

/t<sup>h</sup>u/

/'bit.tə/

/'t<sup>h</sup>uc<sup>h</sup>.i/

/lʌ.'lan.i/

/,p<sup>h</sup>am.i.'lam.i/

/'jan.ji.ja/

/,rɑd<sup>h</sup>.'d<sup>h</sup>iλ.λə/

### 11.2.2 Secondary Stress

Secondary stress is also characterised by the use of the tense vowels, however, the pitch is lower than the average. This falls on any other closed syllables.

/,p<sup>h</sup>am.i.'lam.i/

/,rɑd<sup>h</sup>.'d<sup>h</sup>iλ.λə/

### 11.2.3 Tertiary Stress

Tertiary stress is characterised by use of tense vowels with a median pitch. This stress falls on any closed syllable after one with quaternary stress. It is also the stress attracted by monosyllabic functional words not explicitly marked; instead denoted by use of a tense vowel symbol with no stress mark.



/'laŋ.ŋɘ.hu/  
 /p<sup>h</sup>i/ (functional word)  
 /k<sup>h</sup>ə.lu/ (functional word)

### 11.2.4 Quaternary Stress

Quaternary stress is characterised by a lax vowel with median pitch. It is not explicitly marked. This falls on any open syllable directly following one with primary or secondary stress, or an initial syllable has not yet received a stress. This latter implies that quaternary stress is assigned before the tertiary, despite being of lower rank.

/'naɾ.ə/  
 /ɕə.'nak<sup>h</sup>.ɪ/

## 11.3 Vowel Length

Stressed vowels are slightly longer than other vowels. With this proviso, long and short vowels are in variation. An unstressed vowel between two identical consonants is elided. This elided vowel is replaced with a central dot (·) in the transliteration. This dot also appears in the compound word **ku·li** to distinguish it from the stem word **kuli**.

## 11.4 Prosody

Interrogative and imperative sentences (questions and orders) are denoted by tone. This tone is either a rising tone (ǎ) or a falling tone (â), placed on the syllable of the appropriate word which has the greatest stress.

Falling tone can also be used to bring focus to a particular word.

# 12. Orthography

As well as the syllabary for most written use, there are also special-use syllabaries. One of these employs more redundancy for use with noisy channels. The other is a non-visual written code for blind and other visually impaired users.

# 13. Syllabary

The Lulani syllabary was developed as a featural script, with similar sounds having similar symbols.

It is written in horizontal rows, right-to-left, and top-to-bottom.

	stop	voiced	nasal	lateral	tap	fricative
labial	pa: 𐌱	ba: 𐌳	ma: 𐌱			fa: 𐌸
	pi: 𐌱	bi: 𐌳	mi: 𐌱			fi: 𐌸
	pu: 𐌱	bu: 𐌳	mu: 𐌱			fu: 𐌸
alveolar / retroflex	ta: 𐌹	da: 𐌹	na: 𐌹	la: 𐌺	ra: 𐌺	sa: 𐌺
	ti: 𐌹	di: 𐌹	ni: 𐌹	li: 𐌺	ri: 𐌺	si: 𐌺
	tu: 𐌹	du: 𐌹	nu: 𐌹	lu: 𐌺	ru: 𐌺	su: 𐌺
palatal	ca: 𐌺	ja: 𐌺				xa: 𐌺
	ci: 𐌺	ji: 𐌺				xi: 𐌺
	cu: 𐌺	ju: 𐌺				xu: 𐌺
velar	ka: 𐌻	ga: 𐌻	qa: 𐌻			
	ki: 𐌻	gi: 𐌻	qi: 𐌻			
	ku: 𐌻	gu: 𐌻	qu: 𐌻			
glottal	ʼa: 𐌽					ha: 𐌽
	ʼi: 𐌽					hi: 𐌽
	ʼu: 𐌽					hu: 𐌽

Geminate consonants are shown as ɽ, placed before the geminated consonant.

A central dot  $\cdot$  is placed between words, and sentences begin and end with a  $\cdot$  symbol.

## 14. Spelling Syllabary

There is a spelling syllabary, used for transmitting words across potentially noisy communication channels, such as telephone lines. It is also used for communicating in situations where every syllable is important, such as giving names. Each syllable corresponds to a disyllabic word, which begins with the same consonant and ends with its vowel. The geminate symbol is represented by the word **faʔa** *language*.

'a: 'ara *face*  
 pa: pacca *number*  
 ba: bitta *time*  
 ta: tila *shell*  
 da: diha *bureaucrat*  
 ca: cula *egg*  
 ja: jana *elder*  
 ka: kaqqa *brother*  
 ga: gata *pendulum*  
 ma: marru *flies*  
 na: nassa *euphoria*  
 qa: qasa *fish*  
 la: liffa *speech*  
 ra: rippa *surprise*  
 fa: fipa *storey*  
 sa: sinna *story*  
 xa: xima *morning*  
 ha: hafa *race*

'i: 'ussi *gift*  
 pi: paji *fruit*  
 bi: basi *lid*  
 ti: tuhhi *farming*  
 di: dicci *cold*  
 ci: cadi *wall*  
 ji: jakki *candle*  
 ki: kiri *marigold*  
 gi: gapi *soup*  
 mi: mixi *room*  
 ni: niddi *alertness*  
 qi: quxi *mountain*  
 li: lu'i *love*  
 ri: rali *back*  
 fi: faxi *to survive*  
 si: sutti *fear*  
 xi: xalli *spouse*  
 hi: huri *ocean*

'u: 'iku *hunger*  
 pu: pusu *zirconium*  
 bu: batu *group*  
 tu: tadu *pig*  
 du: diru *money*  
 cu: ciqu *mould*  
 ju: jixu *dictionary*  
 ku: kipu *horse*  
 gu: gusu *person*  
 mu: maʔu *gingla*  
 nu: nuku *world*  
 qu: qumu *woman*  
 lu: laqqu *wealth*  
 ru: riccu *sphere*  
 fu: famu *completely*  
 su: silu *spouse*  
 xu: xaʔu *child*  
 hu: halu *algorithm*

## 15. Tactile Syllabary

There is a tactile syllabary for use by blind and visually-impaired language users.

Each cell is three rows by two columns of raised dots. The upper four dots generally denote the consonant, with syllables beginning with b, d, j, g, f, or x being the exceptions. The lowest pair generally denote the vowel.

	ʔ	p	b	t	d	c	j	k	g
a	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠
i	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠
u	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠

	m	n	q	l	r	f	s	x	h
a	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠
i	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠
u	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠

Dot 5 ( ⠠ ) by itself is the geminate. Word separation is shown by ( ) an empty space, clause separation (..) the comma, and sentence separation by (⠠) the period. Numbers are prefixed with ( ⠠ ) the number and the first syllable of each number is used.

## 16. Morphology

High Lulani is an analytic agglutinative language, as morphemes tend to keep their own shape, even forming words.

## 17. Nouns

Common and proper nouns are open classes; the pronouns are closed.

## 17.1 Common Nouns

Common nouns can refer to abstract or concrete items.

**lu'i** 𐀓𐀓 *love*

**bata** 𐀀𐀓 *caution*

**'ahati** 𐀔𐀓 *happiness*

**caga** 𐀔𐀓 *mouth*

**purissiji** 𐀓𐀔𐀓𐀓 *circle*

### 17.1.1 Stem Nouns

Stem nouns are those that are neither compounded nor derived.

#### 17.1.1.1 Mass Nouns

Mass nouns refer to an undifferentiated aggregation rather than separate units. These cannot take numbers, except for a postpended **xita** *one* to denote the smallest individual piece of that aggregate.

**'iti** 𐀔𐀓 *milk* / **'itixita** 𐀀𐀔𐀓 *drop of milk*

**marru** 𐀔𐀓𐀓 *flies* / **marruxita** 𐀀𐀔𐀓𐀓 *fly*

#### 17.1.1.2 Animacy

This determines which derivational suffixes can be applied, and which pronouns are used as referer

##### 17.1.1.2.1 Animate Noun

These refer to people and other multicellular organisms capable of independent movement.

**gusu** 𐀓𐀓 *person*

**lulani** 𐀓𐀓𐀓 *queen*

**kitisu** 𐀓𐀔𐀓 *father*

**sula** 𐀓𐀓 *goat*

##### 17.1.1.2.2 Inanimate Noun

These refer to things such as natural phenomena, plants, fungi and unicellular life.

**tissa** 𐀔𐀓 *wind*

**linu** 𐀓𐀓 *tree*

**hurru** 𐀔𐀓𐀓 *yeast*

##### 17.1.1.2.3 Abstract Noun

This category encompasses concepts, ideas and other intangibles. They are referred to by inanimate pronouns.

**sutti** 𐀔𐀓𐀓 *fear*

**'adda** ᐱᐅᐅ *past*  
**tuhhi** ᐅᐅᐅ *agriculture*  
**laru** ᐱᐅᐅ *year*  
**sajja** ᐅᐅᐅ *silence*

### 17.1.2 Compound Nouns

The first part of a compound noun must be a noun, and the subsequent parts specify the meaning of noun. These parts can be nouns or verbs. The whole noun is usually written without spaces. The syllabification and stress of nonce words are determined on a stem-by-stem basis. However, a compound common use will start being treated whole.

**jifiru'inulli**  
 ᐅᐅᐅᐅᐅᐅᐅ  
 jifiru'i-nulli  
*lake-mountain*  
 “mountain lake”

**xu'abaju**  
 ᐅᐅᐅᐅᐅ  
 xu'a-baju  
*bird-blue*  
 “bluebird”

## 17.2 Proper Nouns

Proper nouns begin with a capital letter in the transliteration. These are names that refer to individuals, people, places or things.

**Ra'ani** ᐅᐅᐅ *Ryan (name of a person)*  
**ʔikinnisa** ᐅᐅᐅᐅᐅ *Eakins (name of a family)*  
**Sa'imi** ᐅᐅᐅ *Caemi (name of a deity)*  
**Tinalli** ᐅᐅᐅᐅ *Tinellb (name of a universe)*  
**ʔirri'a** ᐅᐅᐅᐅ *Iria (name of a city)*  
**Lulani** ᐅᐅᐅᐅ *Lulani (name of a language)*  
**Xucipura Cula** ᐅᐅᐅᐅᐅᐅᐅ *The Crackled Egg (name of a story)*

## 18. Verbs

A verb is a necessary part of any sentence, except when making **copular sentences**. Verbs can be categorised on the basis of how many elements compose them.

### 18.0.1 Stem Verbs

The class of stem verbs is semi-closed — there are only about 100 pure verbs in the entire language; verbs consist of a single element.

**'i** ᐅ *to say*  
**dissu** ᐅᐅᐅ *to feel*

**miku**  $\subseteq \mathcal{D}$  *to be red*

**nu'ifi** 𐌲𐌶𐌴𐌹𐌸 *to hide; to be hidden*

These verbs allow the speaker to describe an attribute of the **subject**.

**Linu ra'u ki. / Linu qixa ki.**

ᐱᐢᐤ ᐱᐢᐤ ᐱᐢᐤ ᐱᐢᐤ ᐱᐢᐤ ᐱᐢᐤ ᐱᐢᐤ ᐱᐢᐤ

Linu ra'u ki. / Linu qixa ki.

*Tree PRS;STA big. / Tree PRS;DYN big.*

“The tree is big. / The tree is growing.”

The actor who imparts such an attribute is put in the **ablative** case.

**Juffila kaluMa'iliguna pani.**

ᐱᐢᐤ ᐱᐢᐤ ᐱᐢᐤ ᐱᐢᐤ ᐱᐢᐤ ᐱᐢᐤ ᐱᐢᐤ ᐱᐢᐤ

Juffila kalu-Ma'iliguna pani.

*Dragon ABL-Maelgwn tame.*

”The dragon was tamed by Maelgwn.”

The experiencer who perceives such an attribute is put in the **dative** case.

**Liqu kuhisuba bi'u.**

ᐱᐢᐤ ᐱᐢᐤ ᐱᐢᐤ ᐱᐢᐤ ᐱᐢᐤ ᐱᐢᐤ ᐱᐢᐤ ᐱᐢᐤ

Liqu ku-hisuba bi'u.

*Head DAT-administrator hurt.*

*lit:* “The head seems sore to the administrator.”

“The administrator has a headache.”

**mu** ᐱᐢᐤ *good*

**'anu** ᐱᐢᐤ *balanced*

**guqqi** ᐱᐢᐤ *bad*

**tuhi** ᐱᐢᐤ *little*

**ki** ᐱᐢᐤ *big*

**ri** ᐱᐢᐤ *smooth*

**qira** ᐱᐢᐤ *rough*

**nama** ᐱᐢᐤ *light*

**kuppu** ᐱᐢᐤ *strong*

**pani** ᐱᐢᐤ *tame*

**nittu** ᐱᐢᐤ *wild*

**suqa** ᐱᐢᐤ *ready*

**bi'u** ᐱᐢᐤ *sore*

### 19.1.1 Chromatic Verbs

These are adjectival verbs specifically dealing with **colour**.

**ki?a** ᐱᐢᐤ *white*

**ga** ᐱᐢᐤ *black*

**miku** ᐱᐢᐤ *red*

**baju** ᐱᐢᐤ *blue*

**sa** ᐱᐢᐤ *yellow*

**millu** ᐱᐢᐤ *brown*





**Nimalu kuquliruxita runihi.**

· 9 4 8 · 8 8 8 5 7 · 8 0 4 ·

Nimalu ku-quliru-xita runihi.

*Bear DAT-family-one similar.*

“The bear is like one of the family.”

The adposition **haru** 8 9 *with* denotes a slight similarity or difference.

**?usu ra’u haruxissatanissa runihi.**

· 9 4 8 · 5 7 4 8 5 7 8 9 · 8 8 · 8 8 ·

?usu ra’u haru-xissatanissa runihi.

1INT PRS;STA *with-musician similar.*

“I am somewhat of a musician.”

The adpositions **’adi** 8 0 *near* and **xidu** 8 8 *far* denote a large similarity or difference.

**Mari ra’u xidupajiga tina.**

· 8 8 · 9 8 0 8 8 · 8 8 · 8 0 ·

Mari ra’u xidu-pajiga tina.

*This PRS;STA far-olive different.*

“This is nothing like an olive.”

**runihi** 9 4 8 *to be similar to*

**tina** 8 8 *to be different from*

### 19.3.4 Symmetric Relations

The participants of these verbs are equivalent to each other, that is, if Alice acts on Bob, then Bob acts on Alice in the same way. When the subject is Alice, say, then Bob can:

1. Be placed in the object position. Despite the structure, this is not transitive, as the verb has no **pa** and pronouns use the intransitive form:

**?allisi sisa Bubu.**

· 8 8 · 5 8 · 8 8 8 0 ·

?allisi sisa Bubu.

*Alice contact Bob.*

“Alice is touching Bob.”

2. Take **dative** marking:

**?allisi kuBubu ju’i.**

· 9 7 · 8 8 7 · 8 8 8 0 ·

?allisi ku-Bubu ju’i.

*Alice DAT-Bob link.*

“Alice is married to Bob.”

3. Be conjoined with the **subject**:

**ʔallisi Bubuta hulla.**

·᳚᳚᳚᳚·᳚᳚᳚᳚·᳚᳚᳚᳚᳚᳚·

ʔallisi Bubu-ta hulla.

*Alice Bob-and copulate.*

“Alice and Bob are having sex.”

The basic meaning of these sentences is not changed when swapping the participants or using the alternate structures.

**ju’i** ᳚᳚᳚᳚ *to join*

**sisa** ᳚᳚᳚᳚ *to touch*

**haru** ᳚᳚᳚᳚ *to accompany*

**hulla** ᳚᳚᳚᳚ *to copulate; to have consummated*

## 20. Transitivity

The divalent verbs are called transitive, and these require an object to complete its meaning. It is possible to elide this object if it is obvious or irrelevant. The **subject** is the agent, and the **object** is the patient.

**Nimalu dasi (nukki).**

·᳚᳚᳚᳚·᳚᳚᳚᳚·᳚᳚᳚᳚᳚᳚·

Nimalu dasi (nukki).

*Bear eat (strawberry).*

“The bear is eating (the strawberry).”

**dasi** ᳚᳚᳚᳚ *to consume*

**nidu** ᳚᳚᳚᳚ *to use*

### 20.1 Transformative Verbs

Unlike those above, these verbs involve a fundamental change to their **objects**.

**’idu** ᳚᳚᳚᳚ *to make*

**pifa** ᳚᳚᳚᳚ *to create*

**pura** ᳚᳚᳚᳚ *to change; to be*

**si’a** ᳚᳚᳚᳚ *to repair*

**lakka** ᳚᳚᳚᳚ *to break*

**qarri** ᳚᳚᳚᳚ *to open*

**turu** ᳚᳚᳚᳚ *to close*

### 20.2 Motive Verbs

The unmarked argument structure is as follows: the oblique arguments for these are the same as for **kinetic** verbs, *i.e.*: **ablative source**, **dative destination**, and **direction** with **pa**. As for the core argument agent of the movement is the **subject**, and the patient being moved is the **object**.

#### 20.2.1 Dative

These are motive verbs focussing on movement *to* the destination.

“I picked it up.”

"It's mine."

"I've relieved you of it."

**tali**  $\zeta \wedge$  *to take*

“I threw it.”

“I don’t have it.”

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**funi**  $\nabla_{\text{O}}$  *to lose; to lack*

**kissa** 𐤊𐤍𐤏𐤔 *to fight*  
**'ussa** 𐤊𐤍𐤏𐤕 *to obey*

## 20.5 Action Verbs

These verbs take an activity as an **object**. These can take the form of pure nouns:

**Hisutuba tara sinna.**  
 .ᄃᆫᆯ.ᄋᄇ.ᄂᆮᆺᆸᆮ.  
 hisutuba tara sinna.  
*Babysitter begin story.*  
 “The babysitter started the story.”

They can also take **gerunds**:

**Kipu nu dasiruruqa hafi.**  
 ˌkɪpɯ.ɲʰʰʌ.ɬ.ʈʰ.  
 Kipu nu dasi-ru-qa hafi.  
*Ox stop eat-GER-GEN grass.*  
 “The cow stopped its eating of the grass.”

**la**  $\curvearrowright$  *to do*  
**tara**  $\curvearrowleft$  *to begin*  
**tuni**  $\curvearrowright$  *to repeat*  
**nu**  $\curvearrowleft$  *to stop*  
**naqa**  $\curvearrowright$  *to need*  
**tapu** *to look forward to; to enjoy*

## 21. Ambitransitivity

Ambitransitive verbs can be used with or without an argument in the object position.

## 21.1 Perceptive Verbs

These verbs deal with the subject's ability to perceive stimuli.

When used purely intransitively, *i.e.*: with no direct or dative object, they refer to a general ability to do something in that sense:

**Guli ruku 'usa.**  
 ˩˥ ˩˥ ˩˥ ˩˥ ˩˥ ˩˥  
 Guli ruku 'usa.  
*Blind person* FUT;GNO *see*.  
 “The blind person can now see.”

When used with a direct **object**, this denotes a conscious effort at perception:

"The audience watched the screen."

"She saw the secret meeting."

**qi 𠂔** *to experience*

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**ma** ○| *to consider*

**episodic generic**  
**activity** dynamic habitual  
**state** stative gnomic

There is a single category of auxiliaries with the opposite polarity — the **negative**.

### 22.2.1 Episodic and Generic

The difference between episodic and generic markers is one of extent. Events in **episodic** sentences place over a finite duration; generic ones are prototypically unbounded, although this doesn't literally to cover all of time.

**Pannaxa cani 'ibibu. / Pannaxa na 'ibibu.**

ᠠᠩᠭᠠᠨᠰᠠ ᠴᠠᠨᠢ ᠢᠪᠢᠪᠤ. / ᠠᠩᠭᠠᠨᠠ ᠢᠪᠢᠪᠤ.

Pannaxa cani 'ibibu. / Pannaxa na 'ibibu.

*Warrior PRS;DYN complain. / Warrior PRS;HAB complain.*

Episodic: “The warrior is complaining now.” / Generic: “The warrior always complains.”

### 22.2.2 Activity versus State

The difference between activity and state for most verbs is one of focus, *ie.*: emphasis can be place the event itself (**activity**), or on the results (**state**).

**?a'ima cani duci sunu. / ?a'ima pi duci sunu.**

ᠠᠢᠮᠠ ᠴᠠᠨᠢ ᠳᠤᠴᠢ ᠰᠤᠨᠤ. / ᠠᠢᠮᠠ ᠫᠢ ᠳᠤᠴᠢ ᠰᠤᠨᠤ.

?a'ima qixa duci sunu. / ?a'ima pi duci sunu.

*Traveller PST;DYN possess cloak. / Traveller PST;STA possess cloak.*

Activity: “The traveller gained a cloak.” / State: “The traveller owned a cloak.”

Perceptive verbs are treated slightly differently. Here, dynamic and habitual markers act as normal, however, the stative and gnomic are used to denote an ability to perceive a stimulus.

**Fu 'usa gufu'iribuma cani? / Filli 'usa gufu'iribuma ra'u?**

ᠮᠤ ᠤᠰᠠ ᠭᠤᠪᠤᠢᠷᠢᠪᠤᠮᠠ ᠴᠠᠨᠢ? / ᠼᠢᠯᠢ ᠤᠰᠠ ᠭᠤᠪᠤᠢᠷᠢᠪᠤᠮᠠ ᠷᠠᠤ?

Fu 'usa gufu'iribuma cani? / Filli 'usa gufu'iribuma ra'u?

*2TRA see television PRS;DYN? / 2INT see television PRS;STA?*

Activity: “Are you watching the TV?” / State: “Can you see the TV?”

### 22.2.3 Negative

The negative aspect is used for actions, attributes and perceptions which do not occur. These act as negation of any other aspectual marker. That is, while positive sentences can be classified by aspect, negative sentences all use the same auxiliaries.

## 23. Adpositions

Adpositions are a closed class. They can be used in three different ways.

### 23.0.1 As a Preposition

The most basic use for an adposition is prefixed to a noun to signify where the action is taking plac



relation to a reference. These act as prefixes.

**di'i'uja**

ᠳᠢᠢᠤᠵᠠ

di-'i'uja

*up-table*

“atop the table”

**harul·lani**

ᠬᠠᠷᠤᠯᠤᠯᠠᠨᠢ

haru-lulani

*with-queen*

“with the queen”

**nicula**

ᠨᠢᠴᠤᠯᠠ

ni-cula

*at-egg*

“in an egg”

Their nature as a prefix continues to apply even when the noun is already case-marked

**qakalu'ita'i**

ᠴᠠᠬᠠᠯᠤᠢᠲᠠᠢ

qa-kalu-'ita'i

*down-ABL-car*

“down from the cart”

### 23.0.2 As a Nominal or Verbal Modifier

Adpositions can be used to form compound nouns:

**gusu'adi**

ᠭᠤᠰᠤᠠᠳᠢ

gusu-'adi

*person-near*

“nearby people”

and compound verbs:

**jannigibi**

ᠵᠠᠨᠨᠢᠭᠢᠪᠢ

janni-gibi

*move-east*

“to go east”

### 23.0.3 As an Adverb

Adpositions can be used independently to show the position of the action relative to the speaker, or direction in which the action proceeds. Unlike other adverbs, these are placed before or instead of the auxiliary.

"The twins are eating inside."

“It’s raining.”

The auxiliary must appear to support an adverbial adposition in copular clauses.

“The bear is to the north.”

“The minister is usually having a drink around now.”

**capi**  $\phi\daleth$  *behind / after*

**pa**  $\circ$  *towards / at*

**ni**  $\nabla$  *at / during*

**kika**  $\supset\daleth$  *over / over*

## 23.3 Spatial Locations

These can only be used to refer to locations in space.

**jimuli**  $\&\oplus\Gamma$  *outside*

**qu'u**  $\underline{\circ}\overline{\circ}$  *in; inside*

**nifi**  $\nearrow\triangleleft$  *beside*

**raqu**  $\overline{\circ}\supset$  *among*

**ca**  $\daleth$  *encircling*

**du'i**  $\circ\supset\supset$  *beyond*

**la'a**  $\circ\circ$  *on a horizontal surface*

**kadu**  $\supset\supset$  *on a vertical surface*

## 23.4 Motion

These refer to motion.

**data**  $\wedge\wedge$  *backwards*

**tirri**  $\supset\supset\supset$  *forwards*

**ja**  $\supset$  *along*

**ma'iki**  $\supset\supset\circ$  *across*

**tiku**  $\supset\supset$  *around*

**bi**  $\phi$  *out of*

## 23.5 Animates

This group have animate objects.

**haru**  $\&\supset$  *with*

**ha**  $\supset$  *for the benefit of*

## 23.6 Inanimates

This group have inanimate objects.

**nidu**  $\supset\triangleleft$  *using*

**sarru**  $\&\supset\supset$  *instead of*

**haru**  $\&\supset$  *consisting of*

**nina**  $\supset\triangleleft$  *used for a purpose*

**sata**  $\wedge\supset$  *in order to obtain*

'arri 𐀀𐀃𐀆 *along with*

## 24. Adverbs

Adverbs are a closed class. Adverbs can be used either as a verbal suffix or independently to describe entire utterance. See Also: **Adverbial Clauses**

matta 𐀀𐀃𐀆 *also*

gicirri 𐀀𐀃𐀆𐀃 *instead*

naku 𐀀𐀃𐀆 *together*

basa 𐀀𐀃𐀆 *unlawfully*

### 24.0.1 Purpose

piddi 𐀀𐀃𐀆 *on purpose*

qiriji 𐀀𐀃𐀆 *with effort*

hibu 𐀀𐀃𐀆 *allow oneself to*

dumi 𐀀𐀃𐀆 *try to*

danna 𐀀𐀃𐀆 *successfully*

ca'alla 𐀀𐀃𐀆 *must*

fuca 𐀀𐀃𐀆 *can*

ritada 𐀀𐀃𐀆 *by fate*

macu 𐀀𐀃𐀆 *unexpectedly*

xani 𐀀𐀃𐀆 *unwillingly*

dukku 𐀀𐀃𐀆 *not by choice*

### 24.0.2 Extent

dapi 𐀀𐀃𐀆 *more than is necessary*

famu 𐀀𐀃𐀆 *completely*

rali 𐀀𐀃𐀆 *intensely*

kupira 𐀀𐀃𐀆 *in many different ways*

ti'ici 𐀀𐀃𐀆 *to a certain extent*

cipati 𐀀𐀃𐀆 *to that extent*

tuci 𐀀𐀃𐀆 *barely*

miru 𐀀𐀃𐀆 *about to*

xibbuti 𐀀𐀃𐀆 *never again*

### 24.0.3 Time

xuga 𐀀𐀃𐀆 *instantly*

cidatu 𐀀𐀃𐀆 *suddenly*

karu 𐀀𐀃𐀆 *commonly*

gaqqu 𐀀𐀃𐀆 *usually*

naru 𐀀𐀃𐀆 *slowly*

**nigi** 𐀓𐀔 *quickly*  
**dura** 𐀓𐀔 *repeatedly*

## 24.1 Modals

These adverbs cannot be used as verbal suffixes, and can only describe an entire sentence.

**matta** 𐀓𐀔 *again*  
**hiru** 𐀓𐀔 *contrariwise*

### 24.1.3.1 Likelihood

These tell how likely an event is to have occurred, or to occur in the future.

**'ili** 𐀓𐀔 *actually*  
**da'aru** 𐀓𐀔 *experience*  
**fa** 𐀓𐀔 *maybe*  
**tasi** 𐀓𐀔 *probably*  
**qaxa** 𐀓𐀔 *predicted to*  
**mica** 𐀓𐀔 *permitted to*  
**nufira** 𐀓𐀔 *want to*  
**rixi** 𐀓𐀔 *would be better to*

### 24.1.3.2 Evidential

These give the means by which the speaker gained information with regards to their utterance.

**raqa** 𐀓𐀔 *obviously*  
**da** 𐀓𐀔 *clearly*  
**jami** 𐀓𐀔 *evidentially*  
**qaffi** 𐀓𐀔 *seemingly*  
**jati** 𐀓𐀔 *apparently*  
**xakila** 𐀓𐀔 *thought to be*  
**lisina** 𐀓𐀔 *by assumption*  
**rafa** 𐀓𐀔 *by hearsay*

### 24.1.3.3 Emotion

These convey the feelings of the speaker towards the utterance or the listener.

**pu'i** 𐀓𐀔 *incredulity* (“I can’t believe it!”)  
**rapi** 𐀓𐀔 *disregard* (“I don’t care!”)  
**tappa** 𐀓𐀔 *seeking confirmation* (“Isn’t it?”)  
**rani** 𐀓𐀔 *giving confirmation* (“I agree.”)  
**qarihu** 𐀓𐀔 *regret* (“I’m sorry.”)  
**tupi** 𐀓𐀔 *respect* (“With all due respect...”)

## 24.2 Derivation

**Suffixes** can derive adverbs from other parts of speech. Zero-derivation, *i.e.*: having a null suffix, is productive for some categories of words, such as references to time, which are used as modals.

**musa** ᄒᄒ today

**laru** ᄒᄒ this year

**tariti** ᄒᄒ at noon

Numbers can be suffixed to denote other times.

**musahha**

ᄒᄒᄒ

musa-hha

day-zero

lit: “0-day”

“yesterday”

**musara**

ᄒᄒᄒ

musa-ra

day-two

lit: “2-day”

“tomorrow”

**larumullu**

ᄒᄒᄒᄒ

laru-mullu

year-minus\_one

lit.: “1-day”

“two years ago”

## 25. Suffixes

Suffixes can be used to derive new word from existing vocabulary. A suffix beginning with a vowel replaces the final vowel of the base.

### 25.1 Derivational Suffixes

These derive words within a class, *i.e.*: a noun from a noun, or a verb from a verb.

The augmentative **-aku** ᄒᄒ is most often attached to nouns to reference something large or important. It is rarely used for people.

**tissaku** ᄒᄒᄒ wind

**'isilaku** ᄒᄒᄒ depression

The diminutive **-ini** ᄒᄒ is used to form words which reference something small or unimportant. Used with animate nouns, it creates a word for the young of non-sapient creatures. However, with sapient creatures, this word is obscene.

**'ahatini** ᄁᄁᄁᄁ *contentment*

**tissini** ᄁᄁᄁᄁ *breeze*

**qikannini** ᄁᄁᄁᄁ *puppy*

**ranini** ᄁᄁᄁᄁ *potato chips*

**bi'ini** ᄁᄁᄁᄁ *to itch*

The honorific **-fi** ᄁᄁ confers a nuance of sacredness upon a base word.

**karafi** ᄁᄁᄁᄁ *sacredness*

**lulanifi** ᄁᄁᄁᄁ *great queen*

The pair **-tu'i** ᄁᄁᄁ and **-da** ᄁ are used to highlight the positive and negative aspects of a word, respectively.

**dasatu'i** ᄁᄁᄁᄁ *passion* / **dasada** ᄁᄁᄁ *anger*

**ta'itu'i** ᄁᄁᄁᄁ *aroma* / **ta'ida** ᄁᄁᄁ *stink*

### 25.1.1 Nominal suffixes

These derive nouns from other nouns.

	inanimate base	abstract base
<b>animate</b>	-rra ᄁᄁ	-sa / -ri ᄁᄁᄁ
<b>inanimate</b>		-di ᄁ
<b>abstract</b>	-ja ᄁ	

The above table shows the suffixes used for deriving nouns between different animacy classes.

An animate noun is derived from an inanimate noun by the suffix **-rra** ᄁᄁ.

**tisakarra** ᄁᄁᄁᄁ *townsperson*

Both **-sa** ᄁ and **-ri** ᄁᄁ derive an animate noun from an abstract noun, however, these are not predictable. For instance, note the difference between **dis·sa** ᄁᄁᄁᄁ *youth* and **dissuri** ᄁᄁᄁᄁ *stranger*. Other examples are:

**pucasa** ᄁᄁᄁ *optimist*

**sasa** ᄁᄁ *introvert*

**dattusa** ᄁᄁᄁᄁ *god*

**mulisa** ᄁᄁᄁᄁ *fool*

**luxirasa** ᄁᄁᄁᄁ *twin*

**tuhhisa** ᄁᄁᄁᄁ *farmer*

**'axasiri** ᄁᄁᄁᄁ *adult*

**'asilari** ᄁᄁᄁᄁ *friend*

The **-ri** 𐌶 suffix also denotes people from a particular place.

**Tinalliri** 𐌶𐌵𐌴𐌹𐌸 *Tinellbian*

The suffix **-di** 𐌵 derives an inanimate noun from something abstract, and **-ja** 𐌵 does the opposite.

**sinnadi** 𐌵𐌴𐌹𐌸 *book*

**ru'ihaja** 𐌶𐌵𐌴𐌹𐌸 *history*

The suffix **-li** 𐌵 derives nouns which are somehow distinct from their stem.

**daruli** 𐌵𐌴𐌹𐌸 *wrong way*

**gusuli** *non-Guozu person*

The names of parts of the body are derived using **-kku** 𐌵𐌴𐌹 on either nouns or verbs.

**'itikku** 𐌵𐌴𐌹𐌸 *breast*

**mulukku** 𐌵𐌴𐌹𐌸 *heart*

**dasikku** 𐌵𐌴𐌹𐌸 *digestive system*

The animate giver of the inanimate or abstract base is denoted by **-mi** 𐌵.

**'aggami** 𐌵𐌴𐌹𐌸 *police officer / law giver*

**Sa'imi** 𐌵𐌴𐌹𐌸 *Caemi / light giver*

The feminine and masculine are denoted by **-qi** and **-kati** respectively, however, they are infrequently used.

### 25.1.2 Verbal suffixes

These are only applied to verbs.

The suffix **-ni** 𐌵 is used to derive inceptive verbs.

**ducini** 𐌵𐌴𐌹𐌸 *to receive*

The suffix **-ulu** 𐌵𐌴𐌹 denotes reversal of an action, and can only be applied to stem verbs.

**lulu** 𐌵𐌴𐌹 *to undo*

**jannulu** 𐌵𐌴𐌹𐌸 *to return*

**turulu** 𐌵𐌴𐌹𐌸 *to open*

**ju'ulu** 𐌵𐌴𐌹𐌸 *to unlink*

The repetition marker **-tuni** 𐌵𐌴𐌹 has similar form and meaning to the full verb **tuni** 𐌵𐌴𐌹 *repeat*.

**latuni** 𐌵𐌴𐌹𐌸 *to do again*

The augmentative **-ssasu** 𐌵𐌴𐌹𐌸 is used specifically for verbs.



**bi'ussasu** ᠪᠢᠤᠰᠤᠰᠤ *to really hurt*

### 25.1.3 Auxiliary Infix

The infix **-ar-** is placed before the final vowel of auxiliaries, and denotes an end to the action described in the sentence.

**lanaru** ᠯᠠᠨᠠᠷᠤ *will finish doing*

**nagari** ᠨᠠᠭᠠᠷᠢ *will finish being*

### 25.1.4 Adverbial Suffixes

There are two kinds of negation for adverbs. The suffix **-hita** ᠠᠬᠢᠲᠠ is standard negation.

**jamihita** ᠵᠠᠮᠢᠬᠢᠲᠠ *not in evidence*

**'ilihita** ᠶᠢᠯᠢᠬᠢᠲᠠ *not in reality*

On the other hand, **-ma** ᠮᠠ forms terminatives, *i.e.*: the situation described by the adverb was true in the past, but no longer applies.

**nufirama** ᠨᠤᠹᠢᠷᠠᠮᠠ *no longer wanting*

**dumima** ᠳᠤᠮᠢᠮᠠ *no longer trying*

## 25.2 Nominalisation

These derive a noun from another part of speech, most often a verb.

The suffix **-qa** ᠶᠠ derives generic nouns from numerals or alienable genitive pronouns.

**disiqa** ᠳᠢᠰᠢᠶᠠ *hers*

**nuruqa** ᠨᠤᠷᠤᠶᠠ *the four of them*

The suffix **-muka** ᠮᠤᠴᠠ is used with prepositional phrases.

**disinnamuka** ᠳᠢᠰᠢᠨᠨᠠᠮᠤᠴᠠ *prologue*

Other suffixes in this group are divided into animacy classes.

### 25.2.5 Abstract

The productive general suffix **-'a** ᠠ derives abstract nouns.

**cura'a** ᠴᠤᠷᠠᠠ *time*

**qacca'a** ᠴᠠᠴᠠᠠ *choice*

**pa'a** ᠫᠠᠠ *thought*

The suffix **-ru** ᠷᠤ forms gerunds.

**dasiru** ᠳᠠᠰᠢᠷᠤ *eating*

**janniru** 𐀧𐀮𐀶𐀶 *moving*  
**hubaru** 𐀧𐀮𐀶𐀶 *breathing*

Application of **-ppa** 𐀮𐀶 derives terms for times and occasions.

**dasippa** 𐀮𐀶𐀮𐀶𐀶 *mealtime*  
**sikuppa** 𐀮𐀶𐀮𐀶𐀶 *funeral*

The suffix **-ahi** is used with adverbs.

**nufirahi** 𐀮𐀶𐀮𐀶𐀶 *expectation*

### 25.2.6 Inanimate

The patientive suffix **-du** 𐀮𐀶 is applied to stem verbs.

**dasidu** 𐀮𐀶𐀮𐀶𐀶 *food*  
**maladu** 𐀮𐀶𐀮𐀶𐀶 *reflection*  
**kassudu** 𐀮𐀶𐀮𐀶𐀶 *trade goods*

The instrumental suffix **-ffi** 𐀮𐀶 is applied to a verb.

**dasiffi** 𐀮𐀶𐀮𐀶𐀶 *cutlery, tools for eating*  
**sikuffi** 𐀮𐀶𐀮𐀶𐀶 *spear, tool for killing*

The suffix **-kku** 𐀮𐀶 derives names for parts of the body from verbs or nouns.

**dasikku** 𐀮𐀶𐀮𐀶𐀶 *digestive system*  
**'itikku** 𐀮𐀶𐀮𐀶𐀶 *breast*  
**mulukku** 𐀮𐀶𐀮𐀶𐀶 *heart*

When applied to a number, **-ssiji** 𐀮𐀶𐀶𐀶 gives rise to the names of shapes.

**kifissiji** 𐀮𐀶𐀶𐀶𐀶 *triangle*  
**nurussiji** 𐀮𐀶𐀶𐀶𐀶 *quadrilateral*

### 25.2.7 Animate

There are three suffixes for deriving animate nouns from verbs. The suffix **-la'i** is used with intrans verbs, while **-ba** and **-pu'a** derive generic agents and patients respectively.

**narala'i** 𐀮𐀶𐀮𐀶𐀶 *sleeper*  
**'ussaba** 𐀮𐀶𐀮𐀶𐀶 *follower*  
**caba** 𐀮𐀶𐀮𐀶𐀶 *helper*  
**hisuba** 𐀮𐀶𐀮𐀶𐀶 *administrator*

**ju'ipu'a** 𐀮𐀶𐀮𐀶𐀶 *group*  
**lu'ipu'a** 𐀮𐀶𐀮𐀶𐀶 *lover*  
**cikkipu'a** 𐀮𐀶𐀮𐀶𐀶 *telepath*

## 25.3 Adverbialisation

The pair of suffixes **-atinna** ᐱᐱᐱᐱᐱ and **-niqqi** ᐱᐱᐱᐱᐱ derive adverbs from verbs and nouns respecti

**'usatinna** ᐱᐱᐱᐱᐱ *visibly*

**katinna** ᐱᐱᐱᐱᐱ *increasingly*

**lu'atinna** ᐱᐱᐱᐱᐱ *lovingly*

**'ahatiniqqi** ᐱᐱᐱᐱᐱᐱᐱ *happily*

**'isilakuniqqi** ᐱᐱᐱᐱᐱᐱᐱᐱ *depressingly*

**bataniqqi** ᐱᐱᐱᐱᐱᐱᐱ *carefully*

**bufiniqqi** ᐱᐱᐱᐱᐱᐱᐱ *stonily*

**ga'iniqqi** ᐱᐱᐱᐱᐱᐱᐱ *in time*

## 26. Determiners

A determiner can be used to narrow the reference of a noun. They appear at the end of a noun phrase after any normal suffixes. They do not move the stress of the noun, and can only receive up to second stress themselves.

**cama** ᐱᐱᐱ *usual*

**nisa** ᐱᐱᐱ *only*

**sabufi** ᐱᐱᐱᐱᐱ *different*

### 26.0.1 Quantity

These are used to answer "how many?"

**mimu'i** ᐱᐱᐱᐱᐱ *some*

**lumi** ᐱᐱᐱᐱᐱ *several*

**raqi** ᐱᐱᐱᐱᐱ *more*

**'uhu** ᐱᐱᐱᐱᐱ *many*

**takki** ᐱᐱᐱᐱᐱ *many*

### 26.0.2 Choice

There are two sets of determiners that are both used to select a part from the whole. One group is used with count nouns, the other with mass nouns.

#### 26.0.2.1 Count Nouns

These refer to particular members of a group.

**ca** ᐱᐱᐱ *only*

**fi'atu** ᐱᐱᐱᐱᐱ *certain*

**tapa** ᐱᐱᐱᐱᐱ *next*

**cari** ᐱᐱᐱᐱᐱ *remaining*

**qafa** རྩེ ລາສ *last*

### 26.0.2.2 Mass Nouns

These refer to sections of a substance.

**cari** ຍັ ກິ ມາຍ *remaining*

**sukki** ຈັ ກິ ມາຍ *entire*

### 26.0.3 Degree

These mark the degree to which the noun matches its referent.

**nata** ັ ັ ັ *complete*

**naci** ັ ັ ັ *somewhat*

**ji'a** ັ ັ ັ *not*

## 27. Deixis

Deixis encompasses words and phrases which rely on an external context to complete their meaning.

### 27.1 Topicality

Once a topic is introduced in a discourse or narrative, it can be assumed to be the subject until changed.

### 27.2 Pro-forms

The two groups of pro-forms are classified on the basis of their semantic properties.

**Definite pro-forms** are those that encode case, person, animacy and topicality. **Indefinite pro-forms** comprise the remaining deictic terms.

## 28. Personal Pronouns

These are a closed class. They are marked for **case** and **person**. The third person pronouns are additionally marked for topicality or **animacy**. The alienable genitive acts as the nominal head of a possessive phrase, the inalienable genitive is a determiner, and the other pronouns all act as nouns.

		1st person	2nd person	3rd person	
				topic	animate inanimate
intransitive		'usu	filli	(su'a)	mihu pa
	ᐱᐱ	ᐅᐅ	ᐅᐅ	ᐅᐅ	ᐅᐅ
transitive		suma	fu	(su'a)	quhu 'iffa
	ᐱᐱ	ᐅᐅ	ᐅᐅ	ᐅᐅ	ᐅᐅ
ablative		puttu	sacu	raja	kassi kalu
	ᐱᐱ	ᐅᐅ	ᐅᐅ	ᐅᐅ	ᐅᐅ
dative		pixi	ba'u	datu	jusi ku
	ᐱᐱ	ᐅᐅ	ᐅᐅ	ᐅᐅ	ᐅᐅ
genitive	(alienable)	pagu	ba	su'a	disi -
	ᐱᐱ	ᐅᐅ	ᐅᐅ	ᐅᐅ	ᐅᐅ
	(inalienable)	-pahi	-ba	-	-disi -qa
	ᐱᐱ	ᐅᐅ	ᐅᐅ	ᐅᐅ	ᐅᐅ

Pronouns are not generally marked for number.

**ʔusu ra'u pannaxa. / ʔusu ra'u pannaxa'uxxi.**

$$\cdot \neg \wedge \neg 0 \cdot \underline{0} \lambda \cdot \underline{\Delta} \underline{0} \cdot \neg \neg \underline{0} \neg \wedge \neg 0 \cdot \underline{0} \lambda \cdot \underline{\Delta} \underline{0} \cdot$$

ʔusu ra'u pannaxa. / ʔusu ra'u pannaxa'uxxi.

1INT PRS;STA *warrior*. / 1INT PRS;STA *army*.

“I am a warrior.” / “We are an army.”

However, if reference is made to a group that includes more than one of these persons, then additional pronouns can be constructed. The second person transitive pronoun **-fu**  $\frac{2}{\text{O}}$  *and you* can be suffixed to first person pronouns to form first person inclusive plural pronouns. The third person intransitive inar pronoun **-pa**  $\text{O}$  *and them* can be suffixed to first or second person pronouns, including those with -fu, form other plural pronouns. These pronouns have no inalienable genitive form.

	1st person		2nd person	all persons
	inclusive	exclusive	inclusive	
intransitive	'usufu	'usupa	fillipa	'usufupa
	ᵐᵘᶜᵘᶜ	ᵐᵘᶜᵘᶜ	ᵐᵘᶜᵘᶜ	ᵐᵘᶜᵘᶜ
transitive	sumafu	sumapa	fupa	sumafupa
	ᶜᵘᵐᵃᶜᵘᶜ	ᵐᵘᵐᵃᶜᵘᶜ	ᵐᵘᶜᵘᶜ	ᵐᵘᶜᵘᶜ
ablative	puttufu	puttupa	sacupa	puttufupa
	ᵐᵘᶜᵘᶜᵘᶜ	ᵐᵘᶜᵘᶜᵘᶜ	ᵐᵘᶜᵘᶜ	ᵐᵘᶜᵘᶜᵘᶜ
dative	pixifu	pixipa	ba'upa	pixifupa
	ᵐᵘᶜᵘᶜᵘᶜ	ᵐᵘᶜᵘᶜᵘᶜ	ᵐᵘᶜᵘᶜ	ᵐᵘᶜᵘᶜᵘᶜ
alienable genitive	pagufu	pagupa	bapa	pagufupa
	ᵐᵘᶜᵘᶜᵘᶜ	ᵐᵘᶜᵘᶜᵘᶜ	ᵐᵘᶜᵘᶜ	ᵐᵘᶜᵘᶜᵘᶜ

## 28.2 Genitive Forms

### 28.2.1 Alienable Possession

The structure of the possessive phrase for alienable possession is “*possessor* **genitive** *possessed*”.

**pagu xissata**  
 ᐱᑭᑦᑭᑦᑭᑦᑭᑦ  
 pagu xissata  
 1GEN *musical\_instrument*  
 “my musical instrument”

This structure is also used in a hierarchy when the ‘possessor’ is of higher rank than the ‘possessed’

### 28.2.2 Inalienable Possession

For inalienable possession, as well as genitive constructions that do not involve literal possession, the structure is “*possessed-genitive possessor*“, that is, the genitive marker is an enclitic on the possessed. This marker is always the third person inanimate genitive pronoun, unless the possessor is a plain pro-

“my arm”

“the queen’s father”

“the sheep field”

“Ryan (of the family) Eakins”

## “Caemi of Tinellb”

“my queen”

“the face” / “his face”

## 29. Indefinite Pro-forms

[illegible]

The existential markers are also used in complements.

"I learned what her name is."

## 29.1 Object Noun

“This (person) is a police officer.” / “This (object) is a tree.”



“To whom did you give the money?” / “What did you give the dog”

Reduplicated indefinite pronouns with suffixed **-ta** *Λ* and are used for emphasis.

“what the...?”

“nothing and no one”

“never ever”

“absolutely everybody”

Object determiners act as determiners. In most cases, derivations from the object noun forms are of

“no sound”

**manafamari**

𐄂𐄂𐄂𐄂𐄂𐄂

manafa-mari

*country-this*

“this country”

**lulanimi**

𐄂𐄂𐄂𐄂𐄂𐄂

lulani-mi

*queen-some*

“some monarch”

**kulu’aba**

𐄂𐄂𐄂𐄂𐄂𐄂

kulu-’aba

*fork-every*

“every fork”

**nullidiku**

𐄂𐄂𐄂𐄂𐄂𐄂

nulli-diku

*mountain-what*

“which mountain?”

**’usu’aba filli’abata**

𐄂𐄂𐄂𐄂𐄂𐄂𐄂𐄂𐄂𐄂𐄂𐄂𐄂𐄂𐄂𐄂

’usu-’aba filli-’aba-ta

1INT-every 2INT-every-and

“every me and every you”

## 29.3 Place

Place pronouns are used for locations in any, some or all of: space, time, reality and **gingla**. They c:  
function as **adverbial adpositions**,

**Xudda majja dasi da.**

𐄂𐄂𐄂𐄂𐄂𐄂𐄂𐄂𐄂𐄂𐄂𐄂𐄂𐄂𐄂𐄂

Xudda majja dasi da.

*Elephant here consume water.*

“The elephant drank water here” / “The elephant is drinking water now.”

or as nouns.

**Filli kalusatta tihi?**

𐄂𐄂𐄂𐄂𐄂𐄂𐄂𐄂𐄂𐄂𐄂𐄂𐄂𐄂𐄂𐄂

Filli kalu-satta tihi?

2INT ABL-*where* move?

“Whence came you?”

As opposed to **majja** 𐄂𐄂𐄂 *here or now*, the word **miru** 𐄂𐄂𐄂 *here and now* is used for a specific pair  
four categories of dimension.

“The minister is not happy under these circumstances.”

## 30.1 Phrase-level Conjunctions

These conjunctions are used to join words or phrases. They are enclitics on the second and subsequent nouns.

-ta ᵕ *and*  
 -sija ᵕᵕ *or*

## 30.2 Clause-level Conjunctions

These conjunctions are used to join clauses or sentences. They are used as independent words.

### 30.2.1 Coordinating Conjunctions

Coordinating conjunctions are used to separate two matrix clauses. They are placed at the beginning of the second clause.

qu ᵕ *and*  
 nuki ᵕᵕ *or*  
 pada ᵕᵐ *and then*

### 30.2.2 Subordinating Conjunctions

Subordinating conjunctions are used to introduce a dependent clause. See the section on **subordinating clauses** for syntactical information.

surra *if*  
 daru'i *because*  
 gi'a ᵐᵕ *that is*  
 gi'ika ᵕᵕᵕ *in order to*  
 ma *when*  
 rika *and thus*  
 haru ᵕᵕᵕ *while*  
 fati ᵕᵕᵕ *enough to*

## 31. Particles

There are very few particles. These are simply words that do not fit neatly into any other category. ' includes:

- **interjections**,
- **numbers**,
- pronouns of the **alienable genitive**,
- **content** and **relative** clause introductory markers, and
- the **superlative** marker.

## 32. Interjections

These are exclamations that do not fit the syntactic rules of the other parts of speech, hence their classification among the particles. All interjections end with the same vowel, either naturally,

**ta**  $\wedge$  *um*  
**ti'a**  $\circ\lambda$  *oh!*

or because the interjection marker **-a**  $\circ$  has derived them from nouns or verbs.

**mica**  $\gamma\delta$  *hello*  
**nara**  $\lambda\wedge$  *goodbye; good night*  
**hacca**  $\gamma\gamma\rho$  *good morning*  
**kica**  $\gamma\gamma$  *what?*  
**hira**  $\lambda\vartheta$  *please; thank-you*

## 33. Syntax

High Lulani is head-initial in compounds, but tends to be head-final in phrases and clauses. The language has Subject-Verb-Object order, but shows signs of an SOV nature, as dative and ablative complement become more common.

## 34. Case

### 34.1 Alignment

The three basic arguments for any verb (intransitive subjects, transitive subjects and transitive objects) are marked in High Lulani. Because intransitive subjects cannot co-occur with transitive arguments, it is possible to mark either of the transitive arguments in the same way as the intransitive without confusion. In the ergative alignment, it is the transitive object that is marked the same as the intransitive subject. In the accusative alignment, it is instead the transitive subject that shares marking with intransitive subjects. In either alignment, the intransitive case is the one treated like the intransitive subject, and the transitive case is the other.

High Lulani has an ergativity split, made down aspectual lines. A clause using dynamic or iterative auxiliaries uses ergative alignment; gnomic, stative and negative aspects attract the accusative.

### 34.2 Core Cases

The core cases mark the basic arguments of the verb. Common or proper nouns have no case marking, but the pronouns have different forms. Therefore only pronouns show the alignment of a sentence.

#### 34.2.1 Intransitive

The intransitive case is used for the sole argument of an intransitive verb and for the unmarked argument of transitive sentences. This case is also used for adpositions.

#### 34.2.2 Transitive

The transitive case is used for the marked argument of transitive sentences, that is, the object in an

accusative clause, and the subject in ergative clauses.

## 34.3 Oblique Cases

The two oblique cases are marked on the pronouns. For common and proper nouns, a clitic with the form as the appropriate third person inanimate pronoun is placed before the noun phrase.

Sometimes the verb requires an oblique rather than a traditional object. In these cases, the subject is usually in intransitive case, although it is not incorrect to use transitive case with dynamic and iterative auxiliaries.

### 34.3.3 Ablative

The ablative case is used to mark the proximate cause or the instigator of an action. With verbs of transfer or motion, it is also used to mark the source of a movement.

**sacu** ᠰᠠᠴᠤ *because of you / from you*

The clitic is **kalu-** ᠬᠠᠯᠤ.

**kaluTinalli janni**

ᠬᠠᠯᠤᠲᠢᠨᠠᠯᠢᠵᠠᠨᠢ

kalu-Tinalli janni

ABL-Tinellb move

“come from Tinellb”

**kalukimilli kuffa**

ᠬᠠᠯᠤᠬᠢᠮᠢᠯᠢᠬᠤᠫᠤᠪᠠ

kalu-kimilli kuffa

ABL-king give

“given by the king”

### 34.3.4 Dative

The dative case was originally only used to mark the receiver with verbs of giving and transfer. The meaning has since broadened to show indirectness on the part of the patient for a number of verbs, including verbs of perception and emotion.

**pixi** ᠫᠢᠰᠢ *to me*

**kuʔirri'a janni**

ᠬᠤᠢᠷᠢᠠᠵᠠᠨᠢ

ku-ʔirri'a janni

DAT-Irĩa move

“go to Irĩa”

The clitic is **ku-** ᠬᠤ.

“give to the queen”

"She will become a married woman."

"It's under the table."

I have a cloak.

I have a cloak.

“She turned red.”

“She was red.”



"She ate it."

“She was eating it.”

- The old subject is demoted to object, and the old object is demoted to dative. A sentence with this r is transitive. The first dative-marked noun in the new sentence is the demoted item.

“The queen ate a fish because of the king.”

“The king made the queen eat fish.”

“The king made the fish get eaten (by the queen).”

The suffix **-xa** promotes a dative. The old subject is demoted to object, and the old object (if any) is demoted to dative. A sentence with this marker is transitive.

“A fool gives money to the mountain.”

“It is to the mountain that fools give money.”

"It is to the mountain that money is given (by fools)."

To promote a adpositional phrase to subject, prefix the verb with the adposition. The old subject is demoted to object. The old object, if any, is demoted to dative.

**Mihu pi nijagaru gupi.**

.ᵑᵑᵑ.ᵑᵑᵑᵑᵑ.ᵑ.ᵑᵑᵑ.

Mihu pi ni-jagaru gupi.

3ANI;INT PST;STA *at-sand sit*

“She sat in the sand.”

**Jagaru pi nigupu quhu.**

.ᵑᵑᵑ.ᵑᵑᵑᵑᵑ.ᵑ.ᵑᵑᵑ.

Jagaru pi ni-gupi quhu.

*sand* PST;STA *at-sit* 3ANI;TRA

“It was the sand that she sat in.”

**Mihu pi nijagaru dasi nukki.**

.ᵑᵑᵑᵑᵑ.ᵑᵑᵑ.ᵑᵑᵑᵑᵑ.ᵑ.ᵑᵑᵑ.

Mihu pi ni-jagaru dasi nukki.

3ANI;INT PST;STA *at-sand eat strawberry*

“He was eating a strawberry in the sand.”

**Jagaru pi kunukki nidasu quhu.**

.ᵑᵑᵑᵑᵑ.ᵑᵑᵑᵑᵑ.ᵑᵑᵑᵑᵑ.ᵑ.ᵑᵑᵑ.

Jagaru pi ku-nukki ni-dasi quhu.

*sand* PST;STA DAT-*strawberry in-eat* 3ANI;TRA.

“It was in the sand that he was eating the strawberry.”

## 37. Dependent Clauses

A dependent clause is a clause that is unable to stand meaningfully by itself.

They are marked by having the auxiliary at the end.

### 37.1 Subordinate Clauses

A subordinate clause is one introduced by a subordinating conjunction in the matrix clause. A conjunction is used to separate a subordinate from its matrix. The conjunction is placed on the side of the main clause closest to the subordinate. The clauses can be put in either order.

**ʔusu ru luʼi fu daruʼi, ba puʼiba miku raʼu.**

.ᵑᵑᵑ.ᵑᵑᵑ.ᵑᵑᵑᵑᵑ.ᵑᵑᵑᵑᵑ.ᵑᵑᵑᵑᵑ.ᵑᵑᵑᵑᵑ.ᵑᵑᵑᵑᵑ.ᵑᵑᵑᵑᵑ.

ʔusu ru luʼi fu daruʼi, ba puʼiba miku raʼu.

1INT PRS;GNO *love* 2TRA *because*, 2GEN *ball red* PRS;STA

“I love you because your ball is red.”

**Ba puʼiba miku raʼu, daruʼi ʔusu ru luʼi fu.**

.ᵑᵑᵑᵑᵑ.ᵑᵑᵑᵑᵑ.ᵑᵑᵑᵑᵑ.ᵑᵑᵑᵑᵑ.ᵑᵑᵑᵑᵑ.ᵑᵑᵑᵑᵑ.ᵑᵑᵑᵑᵑ.

Ba puʼiba miku raʼu, daruʼi ʔusu ru luʼi fu.

2GEN *ball red* PRS;STA, *because* 1INT PRS;GNO *love* 2TRA

“I love you because your ball is red.”

Here the subordinate clauses are highlighted. The cause is subordinate to the effect.

#### 37.1.1 Location Adverbial Clauses

**ʔusu lu'i fu madi, ba pu'iba miku qixa.**

ʔusu lu'i fu ma-di, ba pu'iba miku qixa.

1INT *love* 2TRA *where-up*, 2GEN *ball red* PST;DYN.

"I loved you before your ball turned red."

A content clause is one that takes the place of a noun. They begin with the complementiser **li** ʒ and separated from the matrix clause by commas. The auxiliary is not optional, and is given a low tone. Q marks are used around reported speech, replacing the complementiser.

**Li 'usu kissajisuka kugibi?asi'a rusa, qixa puttū pa'illu.**

[illegible]

Li 'usu kissa-jisuka ku-gibi?asi'a rusa, qixa puttū pa-'illu.

1INT *fight-ideology* DAT-east-Asia PST;GNO, PST;DYN 1ABL *think-PSV*

"That we've always been at war with Eastasia, is what I think."

**Suma qixa kul·lani 'icipu, li quhu pixi kuffa dissudanagi qixa.**

[illegible]

Suma qixa ku-lulani 'icipu, li quhu pixi kuffa dissu-danagi qixa.

1TRA PST;DYN DAT-*queen ask*, COM 3ANI;TRA 1DAT *give new-decree* PST;DYN

“I asked the queen if she had pardoned me.”

## Mihu qixa 'i, “Filli mulisa ra'u?”

၂၅၀၂.၄၆၈.၆၇၆၅:၇.၇၃.၈၄.

Mihu qixa 'i, "Filli mulisa ra'u?"

3ANI;INT PST;DYN *speak* “2INT *fool* PRS;STA?”

“He said, ‘Are you a fool?’”

Relative clauses specify the noun by describing it. They begin with the relativiser **xiku** 𐑏𐑦 and are before the modified noun. The auxiliary is not optional, and is given a rising tone. Only subjects can be relativised. Other cases must be promoted to subject.

**Xiku lu'i kimilli pi lulani.**

• 4<sup>∞</sup> • φ • 2<sup>7</sup> 3<sup>4</sup> • 9<sup>∞</sup> • 5<sup>∞</sup> •

Xiku lu'i kimilli pi lulani.

REL *love king* PST;STA *queen*

“The queen who loved the king.”

**Xiku kalukimilli lu'illu pi lulani.**

$\cdot \frac{1}{n} \log n \cdot \phi \cdot \log n \cdot \psi \cdot \log n \cdot \chi \cdot \log n$

Xiku kalu-kimilli lu'i-illu pi lulani.

REL ABL-*king love*-PSV PST;STA *queen*.

“The queen whom the king loved.”

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**Xiku lu'i kimilli pi Sa'imi.**  
 .ᄃᆫᆯᆮᆺ.ᆫᆻᆪᆫᆺᆫᆻᆫᆻᆫᆻᆫᆻᆫᆻᆫᆻ.  
**Xiku lu'i kimilli pi Sa'imi.**  
*REL love king PST;STA Caemi*  
 "Caemi, who loved the king."

If the only argument of the relative verb is the modified noun, the auxiliary is appended to the verb the relativiser is dropped. This auxiliary is given a mid-tone.

**'ibibuna suma**  
 〇 | △ · ↑ ↻ 〇 φ ♀  
*complain*-PRS;HAB 1 TRA  
**'ibibuna suma**  
 “the occasionally complaining me”

**ka'ucani Ra'ani**  
 𐌕𐌀𐌹𐌺𐌰𐌽𐌰 𐌷𐌰𐌵𐌰𐌴  
*jump-PRS;DYN Ryan*  
 ka'ucani Ra'ani  
*the jumping Ryan*

**kalukimilli nuhu.**  
 .ṯḥ.ḫṣṭṗṡṃ.  
 kalu-kimilli nuhu  
*ABL-king folding\_paper*  
 “the letter from the king”

**kul·lani nukki.**  
 ႵၿၢၤႦၣၼၤ<sup>၃</sup>.  
 ku-lulani nukki  
*ABL-queen strawberry*  
 "the strawberry for the queen"

**di'i'uja pa**

○・ㄱㄴㄹ

di'i'uja pa

*up-table* 3INA;INT

“the thing atop the table”

### 37.3.3 Transitives

If the only arguments of the relative verb are the modified noun and a direct object, the verb is applied to the object, with or without the auxiliary, and the relativiser is dropped.

**xucipura cula**

ㄴㄱ・ㄱㄴㄹ

xuci-pura cula

*feather-change egg*

“hatching egg”

**hafidasira'u kipu**

ㄴㄱ・ㄴㄹㄱㄴ

hafi-dasi-ra'u kipu

*grass-eat-PRS;STA* ox

“the grass-eating cow.”

## 37.4 Questions and Requests

Questions and requests are main clauses, but have the same auxiliary movement as dependent clauses and are thus treated alongside them here.

### 37.4.4 Interrogatives

An interrogative is a question sentence. There are two main types, polar questions and content questions.

Polar questions are one in which the answer is “yes” or “no”. They are spoken with a rising tone on the last word. The auxiliaries are used to answer.

**Lulani lu'i suma ra'u?**

・ㄴㄹ・ㄴㄹㄱㄴ・ㄴㄹㄱㄴ・

Lulani lu'i suma ra'u?

*queen love* 1TRA PRS;STA?

“Does the queen love me?”

**Ra'u. / Ji. / Ruku. / Pi.**

・ㄴㄹ・ㄴㄹ・ㄴㄹㄱㄴ・

Ra'u. / Ji. / Ruku. / Pi.

PRS;STA. / PRS;NEG. / FUT;GNO. / PST;STA.

“Yes.” / “No.” / “She will.” / “She did.”

**Lulani nimalu ji?**

・ㄴㄹ・ㄴㄹㄱㄴ・ㄴㄹㄱㄴ・

Lulani nimalu ji?

*queen bear* PRS;NEG?

“Is the queen not a bear?”

“Yes, she’s not.” / “No, she is.” / “Usually.”

Content questions are ones in which the expected answer is more than just “yes” or “no”. These questions have a rising tone on the main question word itself.

“Whom does the queen love?”

“The king.” / “You.” / “No one.”

“Love the queen!”

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**dissu'ahatiru** 𐤔𐤌𐤕𐤁𐤕𐤌𐤕𐤕𐤓 *feeling happy*  
**pakicuru** 𐤐𐤕𐤕𐤕𐤕𐤕𐤕𐤕𐤕 *believing to be true*  
**'i'issiru** 𐤕𐤓𐤕𐤕𐤕𐤕𐤕𐤕𐤕𐤕 *singing*

**jannikiluquruqa nimalu**  
 ∞○|↑·?⊗∞↗↑↗

**guqqirupahi**  
 ᑭᑭᑭᑭᑭᑭᑭᑭ  
 guqqi-ru-pahi  
*bad*-GER-1 GEN  
 “my being bad”

**dasilluruqa dasu**  
 △A·P<sub>3</sub>∞↗A  
 dasi-illu-ru-qa dasu  
*eat*-PSV-GER-GEN *meat*  
 “the eating of meat”

**sikukkarudisi**  
 ↗A<sub>3</sub>↗↗↗↗↗  
 siku-kka-ru-disi  
*die*-ABV-GER-3ANI;GEN  
 “his murdering of another”

## 40. Apocrypha

## 41. Numbers

## 41.1 Cardinal Numbers

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with the positive digits (1, 2, 3, 4, 5, 6 and 7), their negative counterparts (1, 2, 3, 4, 5, 6 and 7) and a (0). A period (fractional point: .) is used to separate the integer part of the number from the mantissa. comma (,) is used in the integer part to separate the digits into groupings of four, beginning from the fractional point.

### 41.1.1 One-digit Numbers

Here are the names for the one-digit numbers:

(qi)hha	ᄒᄒᄒ	0	(qi)hha	ᄒᄒᄒ	0
xita	ᄒᄒ	1	mullu	ᄒᄒᄒ	1
ra	ᄒ	2	kannu	ᄒᄒᄒ	2
kifi	ᄒᄒ	3	bila	ᄒᄒᄒ	3
nuru	ᄒᄒ	4	missu	ᄒᄒᄒ	4
guhi	ᄒᄒ	5	laffi	ᄒᄒᄒ	5
'usi	ᄒᄒ	6	jusiti	ᄒᄒᄒ	6
salumi	ᄒᄒᄒ	7	haki	ᄒᄒ	7

The full form **qihha** ᄒᄒᄒ *zero* is only used when by itself, or first in a number or noun phrase.

### 41.1.2 Two-digit Numbers

Numbers between 17 and 16 are composed of the prefix **sa-** ᄒ and the final two syllables of the *nur* except for **salura** (not **sara**) 12.

Round numbers, *i.e.*: numbers ending with a single zero, use the suffix **-hha** ᄒᄒ.

**sahha** ᄒᄒᄒ 10  
**rahha** ᄒᄒᄒ 20  
**kifihha** ᄒᄒᄒᄒ 30

All other two digit numbers, except for 22, are formed by juxtaposing the tens digit with the units.

**mullukifi** ᄒᄒᄒᄒᄒ 13  
**xitasalumi** ᄒᄒᄒᄒᄒᄒ 17  
**ranuru** ᄒᄒᄒᄒ 24  
**kifilaffi** ᄒᄒᄒᄒᄒᄒ 35

The word for 22, the exception, is **ranira** ᄒᄒᄒᄒ.

### 41.1.3 Three- and Four-digit Numbers

Three- and four-digit numbers are divided into the number of hundreds, and the remainder. This remainder is always the last two digits of the number.

The word for 100 is **takki** ᄒᄒᄒ. Other three-digit numbers beginning with a 1 are formed by prefix this word to the remainder, while even larger three- and four-digit numbers append it to the number of hundreds, which is then followed by the remainder as a separate word.

**kannuratakki missumullu** 2241

**bilasalumitakki** ၃၇၈၀၆၁၅၆၁ 3700

zero cases, the word **tuni** ᄁᄇ *repeat* is inserted before the repeating string. The string must be read o individual digits.

There are also numbers for which the repeating string can be cut in half, with digits in the second h being the negative of the digits in the first half. For these, only the first half is read out, with the word ᄇᄇ *reflect* inserted.

**tuni guhira** ᄇᄇᄇᄇᄇᄇ 0.5252...

**paqihha xita tuni guhira** ᄇᄇᄇᄇᄇᄇᄇᄇᄇᄇᄇᄇ 0.15252...

**paqihha xita mala guhira** ᄇᄇᄇᄇᄇᄇᄇᄇᄇᄇᄇᄇᄇᄇᄇᄇᄇᄇ 0.152525252...

### 41.1.5.3 Fractions

The suffix **-ki** ᄇ separates the numerator from the denominator. **Saki** ᄇᄇ is used if the numerator is There is also a commonly used variant for  $\frac{1}{2}$ : **'ima** ᄇᄇ.

**'ima / saki ra** ᄇᄇᄇᄇᄇᄇ ᄇᄇ  $\frac{1}{2}$ ;

**saki kifi** ᄇᄇᄇᄇᄇᄇ ᄇᄇ  $\frac{1}{3}$

**kifiki nuru** ᄇᄇᄇᄇᄇᄇᄇᄇᄇᄇ ᄇᄇ  $\frac{3}{4}$

## 41.2 Ordinal Numbers

Ordinal numbers are used to mark position in a line or a list.

The first two ordinal numbers are suppletive, that is, they are not related to their cardinals. All othe ordinals are formed by adding the suffix **-uju** ᄇ to the cardinal number.

**bijju** ᄇᄇᄇ 1<sup>st</sup>

**matta** ᄇᄇᄇᄇ 2<sup>nd</sup>

**kifuju** ᄇᄇᄇᄇ 3<sup>rd</sup>

**nuruju** ᄇᄇᄇᄇ 4<sup>th</sup>

**salumuju** ᄇᄇᄇᄇᄇᄇ 7<sup>th</sup>

**saqikkuju** ᄇᄇᄇᄇᄇᄇᄇ 10<sup>th</sup>

**saxituju** ᄇᄇᄇᄇᄇᄇ 11<sup>th</sup>

**takkuju** ᄇᄇᄇᄇᄇᄇ 100<sup>th</sup>

## 41.3 Using Numbers

Ordinal and cardinal numbers are used in noun phrases, and are inserted between any case markers adpositions, and the noun.

**nuruju kimilli**

ᄇᄇᄇᄇᄇᄇᄇᄇᄇᄇ

nuru-uju kimilli

*four-ORD king*

“the fourth king”

“due to the seven queens.”

“seven books”

“septet”

**tibara** ῥόγ *legs*

**ga** ʔ *black*

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the black.

All colour terms can be compounded to refer to specific hues.

**mikumulu** ນິຄຸມຸລຸ *blood red*  
**bajukunubi** ບາຈຸກຸນຸບີ *sky blue*  
**kiʔamasi** ກິອາມາສີ *snow white*

## 43. Comparatives

The comparative marker is an adposition **su** ສຸ *than* placed on the noun being compared against.

**Hannaku suqikanni xusina.**  
 ສຸ ກິກັນນີ ສຸ ກິກັນນີ ສຸ ກິກັນນີ  
 Hannaku su-qikanni xusina.  
*Cat than-dog be\_pretty.*  
 “Cats are cuter than dogs.”

For “little more”, the qualifier **tuci** ຕູຈີ *half-do* is affixed to the verb.

**Luffuba suhuri bajutuci.**  
 ລຸຟູບາ ສຸ ສຸ ກິກັນນີ ສຸ ກິກັນນີ  
 Luffu-ba su-huri baju-tuci.  
*Eyes-2GEN than-ocean blue-half\_do.*  
 “Your eyes are slightly bluer than the ocean.”

For “a lot more”, the qualifier is **rali** ຣາລີ *intensely*.

**Musa sulupumma cussi'alarali.**  
 ມູສາ ສຸ ລຸປຸມມາ ສຸ ລຸປຸມມາ ສຸ ລຸປຸມມາ  
 Musa su-lupumma cussi'ala-rali.  
*Sun than-fire feel\_hot-intensely.*  
 “The Sun is much hotter than fire.”

### 43.1 Equalatives

The equalative marker is **ka** ກາ *as*, an adposition.

**?usu kafilli qi'iku.**  
 ັສຸ ກາ ຟິລີ ກິ ັກຸ  
 ?usu ka-filli qi'iku.  
 1INT as-2INT feel\_hungry.  
 “I am as hungry as you are.”

### 43.2 Superlative

The superlative marker, contrary to the other two, is a particle **piba** ປີບາ placed before the verb.

“The gardens are the quietest.”

“the quietest garden.”

**sappaguju'i**

𐄂𐄃𐄄𐄅𐄆𐄇

sappagu-ju'i

father;1 GEN-link

“my step-father”

**tuju'iba**

𐄈𐄉𐄊𐄋

tu-ju'i-ba

offspring-link-2GEN

“your step-daughter”

Other kinship terms began as nuclear family names, but were thence extended across a generation. **kaqqa** 𐄌𐄍 *elder sibling* and **kica** 𐄎 *younger sibling* can also be applied to cousins.

## 45. Elements

The first 118 chemical elements have been named.



li'a	kuxalu	laqa	quffi	sahha	fasami	'ittika
᠋ᠣᠴ	᠋ᠢᠬᠤᠯᠤ	᠋ᠯᠠᠴᠠ	᠋ᠴᠤᠫᠲᠤ	᠋ᠰᠠᠬᠤᠬᠠ	᠋ᠰᠠᠮᠢ	᠋ᠶᠢᠲᠲᠢᠠ
helium	neon	argon	krypton	xenon	radon	oganesson
la	ca'a	limma	bi	papa	sicu	buccata
᠋ᠯᠠ	᠋ᠴᠠᠠ	᠋ᠯᠢᠮᠤᠮᠠ	᠋ᠪᠢ	᠋ᠫᠠᠫᠠ	᠋ᠰᠢᠴᠤ	᠋ᠪᠤᠴᠤᠳᠤᠲᠠ
hydrogen	fluorine	chlorine	bromine	iodine	astatine	tennessine
	sa	ta	matirra	lasu	cakassu	suda
	᠋ᠰᠠ	᠋ᠲᠠ	᠋ᠮᠠᠲᠢᠷᠷᠠ	᠋ᠯᠠᠰᠤ	᠋ᠴᠠᠬᠠᠰᠤᠰᠤ	᠋ᠰᠤᠳᠠ
	oxygen	sulfur	selenium	tellurium	polonium	livermorium
	sutta	pibi	da'u	salari	'aggini	rili
	᠋ᠠᠶᠢᠳᠤᠲᠤ	᠋ᠫᠢᠪᠢ	᠋ᠳᠠᠤ	᠋ᠰᠠᠯᠠᠷᠢ	᠋ᠶᠠᠭᠭᠢᠨᠢ	᠋ᠷᠢᠯᠢ
nitrogen	phosphorus	arsenic	antimony	bismuth		muscovium
	xu	'ama	xuhhi	laji	musaqu	xa'a
	᠋ᠬᠤ	᠋ᠠᠮᠠ	᠋ᠬᠤᠬᠢ	᠋ᠯᠠᠵᠢ	᠋ᠮᠤᠰᠠᠴᠤ	᠋ᠬᠠᠠ
carbon	silicon	germanium	tin	lead		flerovium
	kuxxu	disa	'ali	luka	silla	rabaci
	᠋ᠬᠤᠬᠤᠬᠤ	᠋ᠳᠢᠰᠠ	᠋ᠠᠯᠢ	᠋ᠯᠤᠬᠠ	᠋ᠰᠢᠯᠠ	᠋ᠷᠠᠪᠠᠴᠢ
boron	aluminium		gallium	indium	thallium	nihonium
			hika	kaca	'usa	hatanu
			᠋ᠬᠢᠠ	᠋ᠬᠠᠴᠠ	᠋ᠰᠤᠰᠠ	᠋ᠬᠠᠲᠠᠨᠤ
			zinc	cadmium	mercury	copernicium
			suki	ni	fi	su'usi
			᠋ᠰᠤᠬᠢ	᠋ᠨᠢ	᠋ᠹᠢ	᠋ᠰᠤᠤᠰᠢ
			copper	silver	gold	roentgenium
			tasa	qala	jala	na'ipa
			᠋ᠰᠠ	᠋ᠴᠠᠯᠠ	᠋ᠵᠠᠯᠠ	᠋ᠨᠠᠢᠫᠠ
			nickel	paladium	platinum	darmstadtium
			gaxiki	fula	natu	nakaku
			᠋ᠭᠠᠬᠢᠶᠢᠴᠢᠰᠢ	᠋ᠹᠤᠯᠠ	᠋ᠨᠠᠲᠤ	᠋ᠨᠠᠬᠠᠬᠤ
			cobalt	rhodium	iridium	meitnerium
			'a	nasufi	supu	'i'ami
			᠋ᠠ	᠋ᠨᠠᠰᠤᠹᠢ	᠋ᠰᠤᠫᠤ	᠋ᠶᠢᠠᠮᠢ
			iron	ruthenium	osmium	hassium
			qumalli	nikili	hasuki	cabahi
			᠋ᠴᠤᠮᠠᠯᠢ	᠋ᠨᠢᠶᠢᠯᠢ	᠋ᠬᠠᠰᠤᠬᠢ	᠋ᠴᠠᠪᠠᠬᠢ
			manganese	technetium	rhenium	bohrium
			fada	sula	mina?i	saniki
			᠋ᠹᠠᠳᠠ	᠋ᠰᠤᠯᠠ	᠋ᠮᠢᠨᠠᠶᠢᠰᠢ	᠋ᠰᠠᠨᠢᠶᠢᠴᠢ
			chromium	molybdenum	tungsten	seaborgium
			nussa	lakka	hila	nullasu
			᠋ᠨᠤᠰᠤᠰᠠ	᠋ᠯᠠᠬᠠᠬᠠ	᠋ᠬᠢᠯᠠ	᠋ᠨᠤᠯᠤᠰᠤ
			vanadium	niobium	tantalum	dubnium
			ka'i	pusu	tacuca	famati
			᠋ᠶᠠᠨᠠᠳᠢᠮᠤ	᠋ᠫᠤᠰᠤ	᠋ᠲᠠᠴᠤᠴᠠ	᠋ᠹᠠᠮᠠᠲᠢ
			titanium	zirconium	hafnium	rutherfordium
					kixa	nulina
					᠋ᠬᠢᠶᠠ	᠋ᠨᠤᠯᠢᠨᠠ

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