# 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 Grammar and the common ancestor, High Lulani.

# 1.1 High Lulani

 $+\infty^{\infty}$  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 even 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 even 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 humanoids, the Ptokan. Over millions of years, their race evolved and became the dominant force on planet.

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

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

Despite their shared language, as more time went by, fractures again showed between nations. Ano 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 ev 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, n 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 u words when I was quite young. In fact, the High Lulani word **mica** ¬d *hello* dates from that time.

When I decided to write a novel, a constructed language (conlang) was an obvious prospect for incident 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 son 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 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. Vo are defined in terms of openness and frontness; there are no oral, length or tone distinctions. All High words are formed from alternating consonant-vowel pairs. Any word-internal consonant can be gemir 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	Exa
b	<b>b</b> a'u	h	hisuba	ŋ	jan
b <sup>6</sup>	sa <b>bb</b> a	j	fa <b>?</b> a <sup>1</sup>	ŋ	qa
C	qa <b>cc</b> a	ţ	<b>j</b> usi	p	'a <b>p</b>
Ch	<b>c</b> u'i	ť	ma <b>jj</b> a	p <sup>h</sup>	put
Ģ	xu'a	k	takki	r	gur
d	<b>d</b> aru	$k^h$	<b>k</b> a'u	٢	rus
$d^{h}$	'a <b>dd</b> a	1	lisa	S	sipı
f	<b>f</b> ara	λ	mu <b>ll</b> u	t	nitt
g	<b>g</b> usu	m	mullu	t <sup>h</sup>	<b>t</b> a'i
g <sup>ĥ</sup>	sa <b>gg</b> i	n	nisa	?	xu'

 $^{1}$ The phone /j/ only appears as the second segment of an allophonic variant of /?/, when that sour geminated.

Vowel	Example	Vowel	Example
a	batu	ə	su'a
i	b <b>i</b> tta	÷	kasi
u	cura	<del>u</del>	l <b>u</b> lani

The suprasegmental symbols are all exemplified in  $/p^ham.\dot{+}.'lam.\dot{+}/.$ 

# 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	рb	t d		c + <j></j>	k g	?<'>
nasal	m	n			ŋ <q></q>	
lateral		1				
tap			( <r< th=""><th></th><th></th><th></th></r<>			
fricative	f	S		<b>ς</b> <χ>		h

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

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

```
ba'u — usual word-internal glottal stop
nasi?u — geminate word-internal glottal stop
'usu — usual glottal stop within sentence
?usu — capitalised glottal stop at beginning of sentence
?allisi — 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 /phu.'?ib.ə/ Ó♀¬ ball
qapi /'ŋaph.i/ фР rope
kuppu /'khup.pu/ ¬¬← be strong
bufi /'buf.i/ ゟ¬ pebble
huba /'hub.ə/ Óō to live
kibba /'khibĥ.bĥə/ Ó¬¬ stick
```

#### 8.1.2 Alveolars

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

```
turassi /thu.'[as.si/ 刈っぺ木 redhead fi'atu /fi.?ath.u/ 木っゟ certain matta /'mat.tə/ヘつ이 again daru /'da[.u/ ネヘ road xidu /'ɕid.u/ 木് far away kuddu /'kudh.dhu/ 木っ上 rain
```

### 8.1.3 Palatal

The plosives /c/ and /t/ are laminal. In fast speech, they can approach the affricates /tf/ and /dt

```
cissa /'cʰis.sə/ うつ「air
xuci /'ɕucʰ.ɨ/「オ feather
nacca /'nac.cə/ コット clothing
jagaru /ナə.'garุ.ʉ/ キラコ sand
sajimu /sə.'ナim.ʉ/ ゃパケ crack
majja /'maナʰ.ナʰə/ コッロ here
```

### **8.1.4 Velars**

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

```
ka'u /'k<sup>h</sup>a?.u/ 으<sup>)</sup> jump
'isaki /?i.sak<sup>h</sup>.i/ オタ company
nukki /'nuk.ki/ オク strawberry
```

```
gurrisu /'gur.rɨ.sʉ/ 会りつ door
danagi /də.nag.ɨ/ オヘル decree
saggi /'sagʰ.gʰɨ/ オッケ iron pyrites
```

#### 8.1.5 Glottal

The glottal stop /7/ is one of the most common sounds. Non-geminate glottal stops are often suppressed vowels. The second of a geminate glottal stop becomes a palatal approximant /j/

```
'anu /'ʔan.ʉ/ 全<sup>o</sup> to balance
kuli'a /kʰʉ.'liʔ.ə/ <sup>o</sup>ç - friend
nasiʔu /na.'siʔ.jʉ/ 으っ刈个 sheep
```

## 8.2 Nasals

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

#### **8.2.6** Labial

The labial nasal /m/ is bilabial.

```
mana /ˈman.ə/ 介이 bubble
salumi /sə.ˈlum.ɨ/ ਰ<sup>い</sup>う seven
girammi /gɨ.ˈram.mɨ/ ਰっぷオ thunder
```

#### 8.2.7 Alveolar

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

```
nu /nuː/ \Delta to stop
lulani /lʉ.'lan.i/ \Delta \simeq queen
sinna /'sin.nə/ かつは story
```

#### **8.2.8 Velar**

The nasal  $/\eta$  is velar.

```
quliru /ŋʉ.'lir.ʉ/ ዲなぁ family
kunaqi /kʰʉ.'naŋ.ɨ/ ネヘニ earth
laqqu /'laŋ.ŋʉ/ ぁっல 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-geminate

The consonant /1/ 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/ 刈つい baby
kulu /'kʰul.ʉ/ 竺 fork
malliju /'maʎ.ʎɨ.ɟʉ/ チゅつ| happiness
ruʾiha /[ʉ.'ʔih.ə/ ゃりゃ history
karafi /kʰə.'[af.ɨ/ ゟ<sup>ぬっ</sup> enlightenment
qarri /'ŋar.rɨ/ 刈っʔ 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 /'fac.+/ Ho to survive
bufiqi /bu.'fin.+/ 7/60 illness
'iffa /'7if.fo/ 309 it
```

#### 8.4.10 Alveolar

The fricative /s/ is apical.

```
sikka /'sik.kə/ <sup>つ</sup>つ 刈 skin
husabi /hu.'sab.ɨ/ かる finger
'alissa /ʔə.'lis.sə/ ケッ& requirement
```

#### **8.4.11 Palatal**

The palatal fricative /6/ is laminal.

```
xaha /'ɕah.ə/ ァ下 name
puxila /pʰʉ.'ɕil.ə/ ○ॉつ message
dixxa /'diɕ.ɕə/ 下つオ drink
```

#### **8.4.12** Glottal

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

```
hannaku /ˈhan.nə.kʉ/ エヘッツ cat
tihu /ˈtʰih.ʉ/ あオ to dwell
quhha /ˈnuc.cə/ アフェ river
```

# 9. Vowels

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

# front central back close i (†) (#) u mid (ə) open a

There are three phonemic vowels: two close vowels and one open. These are given in the above characteristic vowels in (round brackets). The central and mid vowels are considered the lax variable.

### 9.1 Front

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

```
mici /ˈmic.ɨ/ [rð peace
salilu /sə.ˈlil.ʉ/ $\partial \chi night sky
dibada /dɨ.ˈbad.ə/ ∧\O\\\alpha life
```

# 9.2 Open

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

# 9.3 Back

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

```
mulu /'mul.ʉ/ ♀ blood
hulla /'huʎ.ʎə/ ♡っあ to have sex
riccu /'ţic.cʉ/ユっ以 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 casyllables.

```
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 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 and pitch of vowels. The top two levels are grouped together as 'stressed', leaving the other two level 'unstressed'.

### 11.2.1 Primary Stress

Primary stress is characterised by tense vowels with a high pitch. In polysyllabic words, primary stralls on the last closed syllable. Monosyllabic content words also receive this stress, although this is n explicitly marked in the pronunciation guide.

```
/t<sup>h</sup>u/
/'bit.tə/
/'t<sup>h</sup>uc<sup>h</sup>.ɨ/
/lʉ.'lan.ɨ/
/ˌp<sup>h</sup>am.ɨ.'lam.ɨ/
/'ɟaɲ.ɲɨ.ɟa/
/ˌrad<sup>6</sup>.'d<sup>6</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 th average. This falls on any other closed syllables.

```
/ˌpʰam.ɨ.ˈlam.ɨ/
/ˌradʰ.ˈdʰiʎ.ʎə/
```

# 11.2.3 Tertiary Stress

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

```
/ˈlaɲ.nʉ.hu/
/pʰi/ (functional word)
/kʰə.lu/ (functional word)
```

### 11.2.4 Quaternary Stress

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

```
/ˈnar̯.ə/
/ɕə.ˈnakʰ.ɨ/
```

# 11.3 Vowel Length

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

# 11.4 Prosody

Interrogative and imperative sentences (questions and orders) are denoted by tone. This tone is eith rising tone (å) or a falling tone (â), placed on the syllable of the appropriate word which has the greate 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 en more redundancy for use with noisy channels. The other is a non-visual written code for blind and oth visually impaired users.

# 13. Syllabary

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

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

	stop	voiced	nasal	lateral	tap	fricative
	pa: O	ba: Ó	ma: Ol			fa: 3
labial	pi: φ	bi: φ	mi: đ			fi: <i>)</i> 5
	pu: 🔿	bu: ♂	mu: <del>Q</del>			fu: $\frac{3}{6}$
	ta: ∧	da: 🔨	na: ↑	la: ♡	ra: ۶	sa: 5
alveolar / retroflex	ti: 🛪	di: ⅍	ni: 🌩	li: ራ	ri: ป	si: ଧ
	tu: 🔨	du: Á	nu: 소	lu: ≌	ru: 🞗	su: 🛆
	ca: ٦	ja: 1				xa: 🍞
palatal	ci: 「	ji: 『				хi: й
	cu: ユ	ju: →				xu:∃
	ka: )	ga: 🤉	qa: P			
velar	ki: 기	gi: 🛪	qi: ⊋			
	ku: ←	gu: ∠⊂	qu: 굴			
	'a: O					ha: Þ
glottal	'i:					hi: 9
	'u: <u>○</u>					hu: ō

Geminate consonants are shown as  $\gamma$ , 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 communicaing in situations where every syllable 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 fa?a langu

'a: 'ara <i>face</i>	'i: 'ussi <i>gift</i>	'u: 'iku <i>hunger</i>
pa: pacca number	pi: paji <i>fruit</i>	pu: pusu zirconium
ba: bitta <i>time</i>	bi: basi <i>lid</i>	bu: batu group
ta: tila shell	ti: tuhhi farming	tu: tadu <i>pig</i>
da: diha <i>bureaucrat</i>	di: dicci cold	du: diru money
ca: cula egg	ci: cadi wall	cu: ciqu mould
ja: jana <i>elder</i>	ji: jakki <i>candle</i>	ju: jixu dictionary
ka: kaqqa brother	ki: kiri marigold	ku: kipu <i>horse</i>
ga: gata <i>pendulum</i>	gi: gapi soup	gu: gusu person
ma: marru flies	mi: mixi room	mu: maʔu <i>gingla</i>
na: nassa <i>euphoria</i>	ni: niddi alertness	nu: nuku world
qa: qasa fish	qi: quxi mountain	qu: qumu woman
la: liffa speech	li: lu'i <i>love</i>	lu: laqqu wealth
ra: rippa <i>surprise</i>	ri: rali <i>back</i>	ru: riccu sphere
fa: fipa storey	fi: faxi to survive	fu: famu completely
sa: sinna story	si: sutti fear	su: silu <i>spouse</i>
xa: xima morning	xi: xalli <i>spouse</i>	xu: xa?u <i>child</i>
ha: hafa <i>race</i>	hi: huri ocean	hu: halu <i>algorithm</i>

# 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 general denote the vowel.

Dot 5 (•) by itself is the geminate. Word separation is shown by () an empty space, clause separa (..) 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, eve 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 ♀≌ love
bata ∧Ó caution
'ahati ォァ○ happiness
caga ヲ¬ mouth
purissiji 『刈っりつ 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 > | milk | 'itixita ∧ \ i > | drop of milk marru + 2 | flies | marruxita ∧ \ i + 2 | 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 \triangle \triangle person

lulani \triangle \bigcirc queen

kitisu \triangle \exists father

sula \bigcirc \triangle goat
```

#### 17.1.1.2.2 Inanimate Noun

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

```
tissa うつメ wind
linu 全な tree
hurru もつの yeast
```

#### 17.1.1.2.3 Abstract Noun

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

**sutti** オク合 fear

```
'adda Ao past
tuhhi 9o⊼ agriculture
laru & year
sajja 106 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 comport common use will start being treated whole.

```
jifiru'inulli

よっ全りまた『
jifiru'i-nulli
lake-mountain
"mountain lake"

xu'abaju
ナらっコ

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 individu people, places or things.

```
Ra'ani \diamondsuit<sup>O,R</sup> Ryan (name of a person)

?ikinnisa \upgape \diamondsuit \upgape \diamondsuit Eakins (name of a family)

Sa'imi \upgape \diamondsuit Caemi (name of a deity)

Tinalli \upgape \diamondsuit Tinellb (name of a universe)

?irri'a \upgape \diamondsuit Iria (name of a city)

Lulani \upgape \diamondsuit Lulani (name of a language)

Xucipura Cula \upgape \diamondsuit \upgape \diamondsuit
```

# 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 ♀ to say
dissu ☆ ↑ カ to feel
```

```
'usa ら으 to see
janni 全つす to move
kissa らつす to fight
miku ← ð to be red
```

### 18.0.2 Compound Verbs

In order to extend or specify meaning, verbs can be compounded much as a noun can. Compound vare, however, much more common than compound nouns, to make up for the relative lack of stem ver

#### 'isinna

个つ以 'i + sinna say-story "to tell a story"

#### dissu'ahati

メル○合っ分 dissu + 'ahati feel-happiness "to be happy"

#### pamilami

dodo
pa + milami
think-surroundings
"to be conscious"

# 19. Intransitivity

Intransitive verbs are monovalent. For the archetypal intransitives, the verbal patient is the **subject**.

#### Badiri ru cura.

・ペユ・糸・刈分Ó・ Badiri ru cura. World PRS;GNO change. "The world is always changing."

cura <sup>& 그</sup> to change; to be different huba Óo to breathe; to be alive giri 刘才 to conceive; to be pregnant gupi ф c to sit down; to wait siku c l to die; to be dead hacci 「つ p to awaken; to be awake nara <sup>& ^</sup> to sleep; to be asleep nu'ifi b c to hide; to be hidden

# 19.1 Adjectival Verbs

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

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

·ֈ·••<sup>ጲ</sup>···ֈ··<sub>՟</sub>፡፡ አ<sub>ራ</sub>··

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.

·\$0·44001<sup>2</sup>)·0/67-7·

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.

·\$z.2000.60.

Liqu ku-hisuba bi'u.

Head DAT-administrator hurt.

lit: "The head seems sore to the administrator."

"The administrator has a headache."

mu *⇔* good

'anu ∆<sup>O</sup> balanced

guqqi ⊋っ*⊆ bad* 

tuhi  $9\pi$  little

ki 7 big

ri 외 smooth

qira <sup>8</sup>⊋ rough

nama ○|↑ light

kuppu ¬¬ ← strong

pani o0 tame

nittu 木っ牛 wild

suqa P☆ ready

bi'u ⊖¢ sore

#### 19.1.1 Chromatic Verbs

These are adjectival verbs specifically dealing with colour.

ki?a <sup>O</sup>つす white

ga ? black

baju →Ó blue

sa 5 yellow

millu <sup>∾</sup>っਰ *brown* 

## 19.2 Kinetic Verbs

These verbs deal with motion of the **subject**. The origin of the movement is in **ablative** case, the destination in **dative**, and the general direction is marked with the adposition **pa**.

janni \$\phi\partition to accelerate; to move around 'ussa \$\partition \to to follow nura \$\partition \to to leave; to be apart from madi \$\partition \to to rise; to be high ka'u \$\to to jump hussu \$\partition \to to fall; to be low saja \$\partition \to to lie down; to be lying down tiku \$\infty\$ to turn na \$\partition to turn towards; to face raca \$\partition to be hung; to be hanging fiqu \$\partition to float; to be floating tihu \$\to \to to move to; to abide malu \$\partition 0 \to move to; to be in a place

# 19.3 Quasi-Transitive Verbs

These are intransitive verbs in that they do not require a noun phrase in the object position. However act transitively by having a second noun phrase marked in a particular way.

## 19.3.2 Oblique Arguments

These are marked with an **oblique case marker**:

The usual case assignment for objects of each of these verbs is shown here:

```
mala ∾○| to reflect — ablative faxi ਜੌ? to survive — dative
```

# 19.3.3 Comparatives

These verbs are used to denote the degree of similarity between two nouns. Their nuance can be more by use of different case markers or adpositions.

Case denotes unmarked similarity or difference, dative for the former, ablative for the latter.

#### The Tinellbian Languages

#### Nimalu kuquliruxita runihi.

·ϠϮϗ·ϧϧϗϧϫϹ·ͽͻͿϯ·

Nimalu ku-quliru-xita runihi.

Bear DAT-family-one similar.

"The bear is like one of the family."

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

#### ?usu ra'u haruxissatanissa runihi.

?usu ra'u haru-xissatanissa runihi. 1INT PRS;STA *with-musician similar*.

"I am somewhat of a musician."

The adpositions 'adi  $^{\circ}$  near and xidu  $\acute{\pi}$  if far denote a large similarity or difference.

#### Mari ra'u xidupajiga tina.

·IOU·<sup>2</sup>O·IIXOI(·K·A·

Mari ra'u xidu-pajiga tina.

This PRS;STA far-olive different.

"This is nothing like an olive."

runihi 94% to be similar to

tina ↑≯ 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  $\varepsilon$  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.

·Ocfk·ks·Och.

?allisi sisa Bubu.

Alice contact Bob.

"Alice is touching Bob."

2. Take **dative** marking:

#### ?allisi kuBubu ju'i.

·97·20-13670·

?allisi ku-Bubu ju'i.

Alice DAT-Bob link.

"Alice is married to Bob."

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

#### ?allisi Bubuta hulla.

```
・いっつ・ハっつ・刈らっつ・
?allisi 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 ウナ to join
sisa かれ to touch
haru *> to accompany
hulla いつの to copulate; to have consumated
```

# 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).
```

・、オっ全・刈入・≌○|牛・ Nimalu dasi (nukki). Bear eat (strawberry). "The bear is eating (the strawberry)." dasi 込入 to consume nidu 大全 to use

# 20.1 Transformative Verbs

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

```
'idu 木우 to make
pifa さゆ to create
pura さつ to change; to be
si'a つ刈 to repair
lakka つっい to break
qarri 刈っ? to open
turu ネ木 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.

### Suma gi pa.

·O·∄·OI♠· suma gi pa. 1TRA *carry* 3INA;INT. "I picked it up."

The agent may be moved into the **dative** position, since it is identical to the destination.

#### Pixi duci 'iffa.

∴?¬♀·Γ★·ἤφ. Pixi duci 'iffa. 1INT own 3INA;TRA. lit: "(I) own it to me." "It's mine."

An animate source may be swapped with the patient, i.e.: the ablative becoming an object and vice

#### ?usu ku tali fu.

でいる。 ?usu ku tali fu.

1INT 3INA;DAT take 2TRA.

lit: "I took you to it."
"I've relieved you of it."

duci 「木 to gain; to possess
gi 対 to pick up; to carry

#### 20.2.2 Ablative

These are motive verbs focussing on movement away from a source.

#### Suma maku pa.

tali ₄∧ to take

··O· COI·OI ☆· Suma maku pa. 1TRA *throw* 3INA;INT. "I threw it."

Similarly to dative motive verbs, the agent can be placed in **ablative** position, as they are identical source.

#### Puttu funi 'iffa.

·?っつ・キョ・ホっつ・ Puttu funi 'iffa. 1ABL *lack* 3INA;TRA. *lit:* "(I've) lost it from me."

With similarity again to the dative verbs, an animate destination may be swapped with the patient, *i* with the **dative** becoming an **object** and vice versa.

#### ?usu kalu kuffa fu.

?usu kalu kuffa fu.
1INT 3INA;ABL give 2TRA.
lit: "I gave you from it."
"I've given you it."
kuffa ?¬ ⊆ to give
saki ¬↑ to share
ga ¬ to put
maku ⊆○| to throw
funi ♠¬ to lose; to lack

# **20.3 Apparent Verbs**

These act like the transitive counterpart of the **adjectival** verbs, *i.e.*: the patient as the **subject**, the in **ablative** and the experiencer in **dative**. The additional **object**, which makes these transitive, is an a noun that refers to a quality or attribute, or an inanimate noun that refers to an actual substance or ene being released. The precise verb is chosen by whether the 'radiation' is physical or **subtle** in nature.

#### Hifumari ba'u xi huba ra'u?

·º ハック・ガ・ロック・カップ・カック・Hifu-mari ba'u xi huba ra'u?

House-this 2dat seem important PRS;STA?

"Does this house seem important to you?"

#### Musa xu sa'i.

·<del>•</del>••-----

Musa xu sa'i.

Sun radiate light.

"The sun is shining."

These verbs can also be used to signify the patients resemblance to something else. In this case, the item or person is governed by the adposition  $\mathbf{ka} \supset as$ .

### Filli ka'aggami xu. / Filli ka'aggami xi.

Filli ka-'aggami xu. / Filli ka-'aggami xi.

2INT as-police officer appear. / 2INT as-police officer seem.

"You look like a police officer." / "You act like a police officer."

xi n to broadcast subtly

xu ∃ to broadcast physically

# 20.4 Vital Verbs

These verbs require that both their **objects** and **subjects** are animate.

kuli  $\mathcal{G}^{\perp}$  to meet; to know ca \(\pi\) to help hisu  $\triangleq 9$  to administer

kissa うつす to fight 'ussa うつ 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.

·  $^{\cdot}$   $^{\cdot}$   $^{\cdot}$   $^{\cdot}$   $^{\cdot}$   $^{\cdot}$  hisutuba tara sinna. Babysitter begin story. "The babysitter started the story."

They can also take **gerunds**:

#### Kipu nu dasiruqa hafi.

・ルグ・アルルへ・ヘンス・ Kipu nu dasi-ru-qa hafi. Ox stop eat-GER-GEN grass. "The cow stopped its eating of the grass."

la ○ to do

tara <sup>8</sup> ∧ to begin

tuni <sup>4</sup> ⊼ to repeat

nu <sup>4</sup> to stop

naqa <sup>7</sup> ↑ 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 t that sense:

#### Guli ruku 'usa.

・う<u>〇・</u>Cぇ・みん: 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:

#### Ju'ipu'a 'usa bumaki.

·+90-0-0-2·0-10k·

Ju'ipu'a 'usa bumaki.

Assembly see screen.

"The audience watched the screen."

When used with a **dative** object, this instead lacks that effort:

#### Mihu kulasidaxi ju'isataduru 'usa.

·ϧϘ·϶Ϯ៱ϧϘϽ·ϳϭϪͶϘʹϹ·ͽͿ·

Mihu ku-lasida-xi ju'isatadu-ru 'usa.

3ani;int dat-secret-seem conversation-ger see.

"She saw the secret meeting."

'usa 5 o to see

hulu  $\stackrel{\triangle}{=}$   $\overline{0}$  to hear

cussi 沿っユ to feel

ji'i ♀\\\ to taste

cikki すっ to perceive

dissu 合つ分 to emote

lu'i <sup>o</sup> to love

gacca 77P to choose

qi ⊋ to experience

## 21.2 Communicative Verbs

The communication itself is the **object**, and the recipient is **dative**.

#### Kimilli kul·lani 'i 'issi.

·Xっつ・つ・4い2いるいかっしょう

Kimilli ku-lulani 'i 'issi.

King DAT-song speak queen

"The king sang to the queen."

Indirect speech is signified by a **complement object**.

#### Kimilli jusi 'i li lu'i lulani ru.

 $\cdot$ kbc $^{\circ}$ - $^$ 

Kimilli jusi 'i li lu'i lulani ru.

King 3ani; dat speak com love queen prs; Gno.

"The king told him he loved the queen."

Directly reported communication is separated from the main clause by a comma, and may be put or side. In this case, the recipient may be in either the **object** position or **dative**. This argument structure also be used without a specific communication.

#### (Mica,) kimilli 'i lulani.

·brikbc4·9·204·

(Mica,) kimilli 'i lulani.

(Hello,) king speak queen.

"The king said 'hello' / spoke to the queen."

'i ♀ to speak

buma ○| † to draw

pa ○ to think

ma ○| to consider

# 22. Auxiliaries

Auxiliaries are a type of **verb**, however, they are sufficiently different from main verbs for them to treated separately in this grammar. They are used to mark tense (the time at which an action takes place aspect (the nature of the passage of time during the action). The auxiliary can be dropped from a sentent it is obvious from context, or is the same as that of the sentence immediately prior. They are a closed

#### dynamic stative negative habitual gnomic

past	qixa	рі	qilu	taku	rusa
	下⊋	ф	≌⊋	<b>∠</b> ∧	∱∜
present	cani	ra'u	ji	na	ru
	<b>↑</b> ¬	<u>O</u> &	}	↑	&
future	lanu	nagi	funi	hu	ruku
	쇼∾	취수	↑÷	ົ້ວ	∟Ç

Auxiliary stacking gives a poetic or archaic nuance.

#### ?usu rusarukuru lu'i fu.

?usu rusarukuru lu'i fu.

1INT PST;GNO-FUT;GNO-PRS;GNO love 2TRA.

"I have always and will always love you."

# **22.1 Tense**

The three tenses are past, present and future. In conversation, the tenses tend to mark the time at wl the action began or occurred.

On the other hand, narratives are mainly told in present tense. The other tenses are then used relative that past tense is used for things that happened earlier than the narrative present, and the future tense things that happened later.

#### Quhu qixa dasi si'apa pada, jimuli cani janni qu, lanu haruqikanni la kiluqu.

Quhu qixa dasi si'apa pada, jimuli cani janni qu, lanu haru-qikanni la kiluqu.

3ANI;TRA PST;DYN eat meal and\_then, outside PRS;DYN move and, FUT;DYN with-dog do walk. lit.: She did eat the meal, and then is going outside, and will do a walk with a dog.

"She ate the meal, went outside and walked the dog."

# 22.2 Aspect

The aspects of positive polarity can be categorised in two different ways. Each of these has two possibilities, and thus there are four altogether:

# 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.

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.

?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?

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
¬♀¬¬¬
di-'i'uja
up-table
"atop the table"
```

#### harul·lani

↑○○♣戶 haru-lulani with-queen "with the queen"

#### nicula

○ユ◆ni-culaat-egg"in an egg"

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

```
qakalu'ita'i

○△○○○

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

¬O→

gusu-'adi

person-near

"nearby people"
```

and compound verbs:

```
jannigibi

タオケッフ

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.

#### Luxira'uxxi qu'u cani dasi.

Luxira'uxxi qu'u cani dasi.

Twins inside PRS;DYN eat.

"The twins are eating inside."

#### Kuddu qa hussu.

·☆っō・P・★っ<u>←</u>・

Kuddu qa hussu.

Rain down fall.

lit: "Rain is falling down."

"It's raining."

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

#### Nimalu sani ra'u.

Nimalu sani ra'u.

Bear north PRS;STA.

"The bear is to the north."

### Kuhisuba 'adi na cijja.

Ku-hisuba 'adi na cijja.

DAT-administrator near PRS;HAB alcohol.

"The minister is usually having a drink around now."

## 23.1 Directions

This list includes both relative and absolute terms.

saqa P\$ right
gi | left

ka > south

sumika <sup>⊃</sup>d west

sani \$\delta \sigma north

gibi ∮∄ east

# 23.2 Locations

These can be used to refer to locations in either space or time.

'adi 'a<sup>O</sup> near / now

xidu ⊼ĭ far / then

di ≯ up / upstream

qa P down / downstream

'ari No front | before

# 23.3 Spatial Locations

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

```
jimuli & 中『 outside
qu'u으音 in; inside
nifi 冷 beside
raqu 适 among
ca ¬ encircling
du'i♀★ beyond
la'a ○○ on a horizontal surface
kadu ★ on a vertical surface
```

## 23.4 Motion

These refer to motion.

```
data ∧∧ backwards
tirri 刘⊃≯ forwards
ja ¬along
ma'iki ¬♀○| across
tiku ←≯ around
bi ∳ out of
```

# 23.5 Animates

This group have animate objects.

```
haru ♣⊅ withha ⊅ for the benefit of
```

# 23.6 Inanimates

This group have inanimate objects.

```
nidu 木牛 using
sarru 朱介 instead of
haru 朱介 consisting of
nina 木牛 used for a purpose
sata 木介 in order to obtain
```

'arri 以つ along with

# 24. Adverbs

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

matta へつ이 also
gicirri 刈っ は instead
naku ー together
basa か unlawfully

### **24.0.1** Purpose

piddi 为今 on purpose
qiriji 『以字 with effort
hibu つ allow oneself to
dumi d木 try to
danna か入 successfully
ca'alla 〇つつ must
fuca つ can
ritada 入入以 by fate
macu 二〇| unexpectedly
xani 年下 unwillingly
dukku 二つ木 not by choice

#### **24.0.2** Extent

dapi \$A more than is necessary
famu \$\infty\$ completely
rali \$\partial^{\text{\text{n}}} intensely
kupira \$\partial^{\text{\text{cin many different ways}}} ti'ici \$\bar{\text{\text{cip ti }}} \text{\text{ to a certain extent}} tici \$\bar{\text{\text{cip ti }}} \text{ to that extent} tuci \$\bar{\text{\text{T}}} \text{ barely} miru \$\partial \text{ about to} \$\text{xibbuti } \$\partial^{\text{\text{T}}} \text{ never again}\$

#### 24.0.3 Time

xuga ララ instantly
cidatu 木A「 suddenly
karu & commonly
gaqqu ェッラ usually
naru & slowly

```
nigi ¬↑ quickly
dura <sup>⋄</sup>↑ repeatedly
```

## 24.1 Modals

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

```
matta ∧>○| again
hiru +9 contrariwise
```

#### 24.1.3.1 Likelihood

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

```
'ili & \ actually

da'aru & \ A experience

fa & maybe

tasi A probably

qaxa \ P predicted to

mica ¬d permitted to

nufira & B want to

rixi ¬U 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 P. obviously
da A clearly
jami da evidentially
qaffi 为 seemingly
jati ** apparently
xakila ** ** thought to be
lisina ** ** by assumption
rafa ** ** by hearsay
```

#### 24.1.3.3 **Emotion**

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

```
pu'i ♀ o incredulity ("I can't believe it!")

rapi ♠ \(^\xi\) disregard ("I don't care!")

tappa ○ ¬ \(^\xi\) seeking confirmation ("Isn't it?")

rani ♠ \(^\xi\) giving confirmation ("I agree.")

qarihu o \(^\xi\) regret ("I'm sorry.")

tupi ♠ \(^\xi\) 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 か today
laru ♣♡ this year
tariti >> U^ at noon
```

Numbers can be suffixed to denote other times.

#### musahha

ሥንያ <del>φ</del> musa-hha day-zero lit: "0-day" "yesterday"

#### musara

<sup>8</sup>5⊕ musa-ra day-two lit: "2-day" "tomorrow"

#### larumullu

<sup>∞</sup>γφ&♡ 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 vowe 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** - is most often attached to nouns to reference something large or impor is rarely used for people.

```
tissaku ーケッオ wind
'isilaku ーの刈り depression
```

'ahatini キャッ contentment tissini キャッカ breeze qikannini キャッテ puppy ranini キャッ potato chips bi'ini キャ to itch

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

karafi 
$$\not \triangleright^{\mbox{$N$}}$$
 sacredness lulanifi  $\not \triangleright \mbox{$\uparrow$} \otimes^{\mbox{$\sim$}}$  great queen

The pair -tu'i  $\nabla \pi$  and -da  $\Lambda$  are used to highlight the positive and negative aspects of a word, respectively.

#### 25.1.1 Nominal suffixes

These derive nouns from other nouns.

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**  $^{k}$ ?.

pucasa かつ optimist
sasa か introvert
dattusa かへみ god
mulisa かみ fool
luxirasa かれが twin
tuhhisa かって farmer
'axasiri リンスト adult
'asilari リンスト friend

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The -ri  $\mathfrak U$  suffix also denotes people from a particular place.

The suffix -di \( \forall \) derives an inanimate noun from something abstract, and -ja \( \forall \) does the opposite.

The suffix -li  $\varphi$  derives nouns which are somehow distinct from their stem.

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

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

```
'aggami d?¬° police officer | law giver
Sa'imi d?↑ Caemi | light giver
```

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

#### 25.1.2 Verbal suffixes

These are only applied to verbs.

The suffix  $-\mathbf{n}\mathbf{i}$   $\triangle$  is used to derive inceptive verbs.

The suffix **-ulu**  $\stackrel{\triangle}{-}$  denotes reversal of an action, and can only be applied to stem verbs.

```
lulu <sup>○○</sup> to undo
jannulu <sup>○</sup>소つ1 to return
turulu <sup>○</sup>糸木 to open
ju'ulu <sup>○</sup>으 → to unlink
```

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

latuni 
$$\uparrow$$
 ⊼  $\circ$  to do again

The augmentative **-ssasu**  $\triangle \circ \gamma$  is used specifically for verbs.

bi'ussasu 今から 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 describe sentence.

```
lanaru 4个 will finish doing nagari 以 个 will finish being
```

#### 25.1.4 Adverbial Suffixes

There are two kinds of negation for adverbs. The suffix -hita  $\wedge 9$  is standard negation.

```
jamihita \land 9 d ? not in evidence 'ilihita \land 9 ? ? not in reality
```

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

nufirama no longer wanting dumima no longer trying

## 25.2 Nominalisation

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

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

The suffix -muka  $\rightarrow \oplus$  is used with prepositional phrases.

Other suffixes in this group are divided into animacy classes.

#### **25.2.5 Abstract**

The productive general suffix -a  $\circ$  derives abstract nouns.

The suffix -ru ♣ forms gerunds.

dasiru & ≯ ∧ eating

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

The suffix -ahi is used with adverbs.

#### 25.2.6 Inanimate

The patientive suffix -du  $\acute{\pi}$  is applied to stem verbs.

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

The suffix  $-\mathbf{kku} \stackrel{\frown}{\sim} \gamma$  derives names for parts of the body from verbs or nouns.

```
dasikku エラガル digestive system
'itikku エラガ<sup>♀</sup> breast
mulukku エラ<sup>♀</sup> ⊕ heart
```

When applied to a number, -ssiji ドルっ gives rise to the names of shapes.

#### **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.

## 25.3 Adverbialisation

The pair of suffixes -atinna  $473^{\circ}$  and -niqqi  $274^{\circ}$  derive adverbs from verbs and nouns respecti

```
'usatinna かつおう O visibly
katinna かつおっ increasingly
lu'atinna かつおっ lovingly

'ahatiniqqi マッチメッ happily
'isilakuniqqi マッチー いおり depressingly
bataniqqi マッチ か carefully
bufiniqqi マッチ かっ stonily
ga'iniqqi マッチ らっ in time
```

# 26. Determiners

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

```
cama ○|¬ usual
nisa ↑↑ only
sabufi ♭↑↑↑ different
```

## **26.0.1 Quantity**

These are used to answer "how many?"

```
mimu'i ♀⊕♂ some
lumi ♂□ several
raqi ♀□ more
'uhu 贡□ many
takki ¬¬∧ 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 us with count nouns, the other with mass nouns.

#### **26.0.2.1 Count Nouns**

These refer to particular members of a group.

```
ca ¬ only
fi'atu ¬ ○ ь certain
tapa ○ ∧ next
cari IJ¬ remaining
```

qafa 37 last

#### **26.0.2.2 Mass Nouns**

These refer to sections of a substance.

```
cari 刘¬ remaining sukki ¬¬ ← 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 chan

### 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-forr** 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 norson	2nd person	3rd person		
		1st person		topic	animate	inanimate
intr	anstitive	'usu	filli	(su'a)	mihu	pa
intr		<u> </u>	<b>ζ</b> η,6	$\circ \overline{\forall}$	ู อีฮี	0
t wa	ınsitive	suma	fu	(su'a)	quhu	'iffa
tra	ansitive	OI☆	<del>0</del>	$\circ \overleftarrow{\nabla}$	<b>อ</b> ิธ	326
al	blative	puttu	sacu	raja	kassi	kalu
aı		$\nabla \circ \nabla$	ユゔ	٦8	Ŋ~)	<b>⊙</b> ⊃
dative		pixi	ba'u	datu	jusi	ku
a	iative	йφ	<u>0</u> ó	$\Lambda \Lambda$	시구	
genitive	(alienable)	pagu	ba	su'a	disi	
		40	Ó	$\overset{\circ}{\sim}$	KK KK	-
	(inalienable)	-pahi	-ba		-disi	-qa
		<b>9</b> 0	Ó	-	とな	<b>P</b>

# 28.1 Number

Pronouns are not generally marked for number.

?usu ra'u pannaxa. / ?usu ra'u pannaxa'uxxi.

?usu ra'u pannaxa. / ?usu 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 additio pronouns can be constructed. The second person transitive pronoun -fu  $\frac{1}{2}$  and you can be suffixed to first person pronouns to form first person inclusive plural pronouns. The third person intransitive inan pronoun -pa 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 navsans	
	inclusive	exclusive	inclusive	all persons	
intransitive	'usufu	'usupa	fillipa	'usufupa	
	→ <u>O</u> O	O <u></u> ♠ O	O&7,6	O O O O	
transitive	sumafu	sumapa	fupa	sumafupa	
	<sup>⊃</sup> OI☆	OOI☆	O <del>O</del> O	O⊖OI☆	
ablative	puttufu	puttupa	sacupa	puttufupa	
	ゔ゚゙ <b>ホ</b> っつ	O不つつ	Oユタ	O♂ <b>⊼</b> かつ	
dative	pixifu	ріхіра	ba'upa	pixifupa	
	<del>∂</del> πφ	Ойф	o <u>o</u> ó	O <del>O</del> πφ	
alienable genitive	pagufu	pagupa	bapa	pagufupa	
	→ ←O	O∠CO	OÓ	O <del>O</del> ←O	

#### Fillipa pixi guqqipullata!

・ハいっつマッム・前か・0なった・ Fillipa pixi guqqipullata! 2INT-3RD 1DAT betray! "You and he have betrayed me!"

## 28.2 Genitive Forms

The genitive forms mark a connection between nouns, including one noun possessing another.

#### 28.2.1 Alienable Possession

Possession is alienable when the possessed item can be transferred from one owner to another. Alie possessions include objects bought or received by a person. There is no inanimate alienable genitive pronoun as objects cannot own anything.

The structure of the possessive phrase for alienable possession is "possessor genitive possessed".

#### julliga disi kulu

□\_\_\_、以分・うょっテ julliga disi kulu mother 3ANI;GEN fork lit: "the mother, her fork" "the mother's fork"

#### su'a 'ita'i

O∧O.⇔ su'a 'ita'i 3TOP;GEN car "her car"

#### pagu xissata

กราทั•∠O pagu xissata 1GEN musical\_instrument "my musical instrument"

#### disi nukki

月っ全・以分 disi nukki 3ANI;GEN *strawberry* "his strawberry"

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

#### Pagu mifasu.

・☆?d・仁〇・ Pagu mifasu. 1GEN *subject*. "My vassal"

## 28.2.2 Inalienable Possession

Inalienable possession refers to items which are unable to be transferred from one individual to anc Inalienable possessions include relatives, parts of the body and objects created by a person.

For inalienable possession, as well as genitive constructions that do not involve literal possession, t 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

#### kahipahi

909)

kahi-pahi

arm-1GEN

"my arm"

#### kitisuqa lulani

kk☆√∽∽

kitisu-qa lulani

father-GEN queen

"the queen's father"

## hafiqa nasi?u

O2 $\sqrt{4}$  $\sqrt{1}$  $\sqrt{2}$  $\sqrt{2}$ 

hafi-qa nasi?u

sheep-GEN field

"the sheep field"

#### Ra'aniqa ?Ikinnisa

Ra'ani-qa ?Ikinnisa

Ryan-GEN Eakins

"Ryan (of the family) Eakins"

#### Sa'imiqa Tinalli

 $^{2}$ Pb $^{1}$ K $^{1}$ C $^{2}$ 

Sa'imi-qa Tinalli

Caemi-GEN Tinellb

"Caemi of Tinellb"

This structure is also used in a hierarchy when the 'possessor' is of lower rank than the 'possessed' contrast to the alienable example above.

#### lulanipahi

2040<sup>∞</sup>

lulani-pahi

monarch-1GEN

"my queen"

Items inalienably possessed by the topic appear without a genitive pronoun.

'ara

ጸዐ

'ara

face

"the face" / "his face"

Some kinship terms have suppletive forms when used with a plain possessive pronoun. See **that se** for details.

# 29. Indefinite Pro-forms

The indefinite pro-forms are sets of deictic words which can be placed into a table.

		object determiner	place	action	manner	state
proximate	mari IOI	-mari มoเ	majja / miru 1つ○ ・・↓も	marila ∾∜01		marika Ogoj
distal	kasi ଧ୍ର	-kasi 刈 <sup>ン</sup>	kasuja ¬♠⊃	kalisa ታኔ <sup>ጋ</sup>		kasika ン刈ン
interrogative	sama Ol3	-diku エタ	satta へつう	sulla ∾ኅ♠		saqqa アっら
negative	cu'i Q⊐		qa'i 97	buni ⊅∽		
universal	'aba ó0	-'aba óO	batuja 1πό	'abala ∾ó°	-	
existential	'umi ਰ <u></u> 으	-mi đ	mituja 1⊼đ	'amila ∾đ <sup>0</sup>	fana ∧?	

Proximate forms have referents physically or psychologically near the speaker, whereas distal form used when the referent is far away. Interrogative forms are used in questions, and negative forms are unegative sentences. Universal means "all" or "every", and existential means "some" or "any".

The existential markers are also used in complements.

## ?usu li xaha 'umi ru padissu.

?usu li xaha 'umi ru padissu.

1INT COM name something PRS;GNO learn.

"I learned what her name is."

# 29.1 Object Noun

Object nouns are pronouns. Unlike some personal pronouns, these are not marked for animacy, and thus used to represent people, animals or things.

#### Mari ra'u 'aggami. / Mari ra'u linu.

·d?20.08.NOI.42.08.NOI.

Mari ra'u 'aggami. / Mari ra'u linu.

This PRS;STA police. / This PRS;STA tree.

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

#### Fu kusama kuffa diru? / Fu kusama kuffa qikanni?

・\*\* パ・3っ 仁・○| ら 仁・・ う・・ 卆・3っ 仁・○| ら 仁・ う・・ Fu ku-sama kuffa diru? / Fu ku-sama kuffa qikanni?

2TRA DAT-what give money? / 2TRA DAT-what give dog? "To whom did you give the money?" / "What did you give the dog"

This latter example exploits the ability to swap dative and object for motive verbs.

Reduplicated indefinite pronouns with suffixed -ta  $\wedge$  and are used for emphasis.

#### sama samata?

AOISONS
sama sama-ta?
what what-and?
lit.: "what and what?"
"what the...?"

#### cu'i cu'ita

ヘウユ・ウユ cu'i cu'i-ta nothing nothing-and lit.: "nothing and nothing" "nothing and no one"

#### qa'i qa'ita

APPPP qa'i qa'ita nowhere nowhere-and lit.: "never and nowhere" "never ever"

#### 'aba 'abata

^Ó°·Ó°

'aba 'aba-ta

everything everything-and

lit.: "everything and everything"

"absolutely everybody"

# 29.2 Object Determiner

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

#### takacu

٦٥٧

taka-cu sound-nothing

"no sound"

#### manafamari

以OI3个OI manafa-mari country-this

"this country"

#### lulanimi

**₫**\$\\\\^\\\\\\\

lulani-mi

queen-some

"some monarch"

#### kulu'aba

<u>60%</u>\_

kulu-'aba

fork-every

"every fork"

#### nullidiku

 $\Delta$ c4k2

nulli-diku

mountain-what

"which mountain?"

#### 'usu'aba filli'abata

ΛÓ<sup>0</sup>ζηβ·Ó<sup>0</sup>ΔΩ

'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 can function as **adverbial adpositions**,

## Xudda majja dasi da.

·ECV-10CL.VK·V.

Xudda majja dasi da.

Elephant here consume water.

"The elephant drank water here" / "The elephant is drinking water now."

or as nouns.

## Filli kalusatta tihu?

Filli kalu-satta tihu?

2INT ABL-where move?

"Whence came you?"

As opposed to **majja** 7001 here or now, the word **miru** 40 here and now is used for a specific poir four categories of dimension.

#### Gaca miru ji dissu'ahati.

· ⟨r·b&·Ŋ·k·⇔oak.

Gaca miru ji dissu'ahati.

Minister now PRS; NEG feel\_happy

lit.: "The minister is not happy here, now, on this plane, or in this reality."

"The minister is not happy under these circumstances."

## 29.4 Action

The action terms are pro-verbs, which can be used to replace ordinary verbs in sentences.

#### Sabba sulla qixa?

·トキ・の>♥・Q>¸

Sabba sulla qixa?

father; 2gen do\_what PRS; DYN?

"What does your father do?"

## 29.5 Manner

Manner pro-forms are used to refer to the way in which an action is undertaken. They function as n adverbs in active sentences, *i.e.*: sentences with overt or implied auxiliaries of **activity**.

## Kimilli jannikiluqu kadusi 'ili cani?

Kimilli janni-kiluqu kadusi 'ili cani?

King move-walk that way really PRS;DYN?

"Does the king really walk that way?"

# **29.6 State**

State pro-forms are used as modal adverbs in stative sentences, *i.e.*: sentences with overt or implied auxiliaries of **state**.

#### Filli (ra'u) saqqa?

·P75·OR·G76·

Filli ra'u saqqa.

lit.: "What state are you in?"

"How are you?"

They can also function as determiners.

#### Mari ra'u gajitafana.

·小公人「?」· O R· NOI·

Mari ra'u gajita-fana.

This PRS;STA treasure-somehow

"This is some kind of treasure."

# 30. Conjunctions

Conjunctions are a closed class of words which are used to join phrases or clauses together.

# **30.1 Phrase-level Conjunctions**

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

```
-ta ∧ and
-sija ¬Ⅺ 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 beginnin the second clause.

```
qu 5 and
nuki ¬↑ or
pada ∧○ and then
```

## **30.2.2 Subordinating Conjunctions**

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

```
surra if
daru'i because
gi'a o that is
gi'ika o in order to
ma when
rika and thus
haru & while
fati is 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 ∧ um ti'a ○≯ oh!

or because the interjection marker -a O. has derived them from nouns or verbs.

mica つð hello
nara & goodbye; good night
hacca コッツ good morning
kica コオ what?
hira & 9 please; thank-you

# 33. Syntax

High Lulani is head-initial in compounds, but tends to be head-final in phrases and clauses. The lar 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 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 confusi the ergative alignment, it is the transitive object that is marked the same as the intransitive subject. In accusative alignment, it is instead the transitive subject that shares marking with intransitive subjects. either alignment, the intransitive case is the one treated like the intransitive subject, and the transitive 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 marki these, but the pronouns have different forms. Therefore only pronouns show the alignment of a senter

#### 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 t or motion, it is also used to mark the source of a movement.

sacu → 5 because of you I from you

The clitic is kalu- $^{\infty}$ ).

#### kaluTinalli janni

牛っマーシーンへ☆<sup>◯</sup> kalu-Tinalli janni ABL-*Tinellb move* "come from Tinellb"

#### kalukimilli kuffa

るっ上・よっするへ 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, incoverbs of perception and emotion.

pixi ĭo to me

#### ku?irri'a janni

The clitic is  $\mathbf{ku}$ .

#### kululani kuffa

?¬ ← ↑ ↑ ↑ ↑ ↑ ↓ Lani kuffa

DAT-queen give

"give to the queen"

# 35. Matrix Clauses

The standard word order for matrix clauses is:

Subject - Auxiliary - Adposition - Oblique - Verb - Object - Adverb.

None of these slots are compulsorily filled. If a subject is obvious from context, or is the same as the immediately prior sentence, it can be dropped. The adverb can act as a pro-sentence.

## 35.1 Intransitive Clauses

As already discussed, intransitive clauses do not have objects.

#### Mihu ra'u nara.

・ஃ介・<u>○</u>ஃ・ōਰ・ Mihu ra'u nara. 3INT PRS;STA *sleep* "He is asleep."

## 35.2 Transitive Clauses

Transitive clauses do require an object.

#### ?usu ru lu'i fu.

Sometimes the object is in an oblique case.

#### Mihu ra'u kuqikanni 'usa.

# 35.3 Copular Sentences

Copular sentences do not have a main verb. These sentences are used to show an equivalence relatibetween two nouns, or to show that one noun is an element of the set described by the other noun. The transitive sentences.

#### Mihu lanu julliga.

Mihu lanu julliga.

3ani;int fut;dyn married\_woman

"She will become a married woman."

Another use of copular sentences is to tell the location of something in relation to something else.

#### Pa ra'u di'i'uja.

·709%·08·0·

Pa ra'u di'i'uja.

3INA;INT PRS;GNO down-table

"It's under the table."

The copular sentence structure for ownership is as follows. It has the possessor in the dative case, a possessum as the subject.

#### Sunu ru pixi.

·μφ·κ·<del>δ</del>·γ

Sunu ru pixi.

Cloak PRS;GNO 1DAT

I have a cloak.

The arguments may be swapped without a change in meaning.

#### Pixi ru sunu.

·Δ<del>\</del>.δ·Ψ·μφ·

Pixi ru sunu.

1DAT PRS:GNO cloak.

I have a cloak.

# 35.4 Contrasting Pronouns

These example sentences have been given to clarify alignment and the correct use of pronouns with different auxiliaries.

## Mihu qixa miku.

᠈᠆ᠸᢩᠯ᠂ᠮᢃ᠂ᢩᡖᢆᠯ᠈

Mihu qixa miku.

3ani.int pst;dyn red

"She turned red."

#### Mihu pi miku.

*-*-\_d.φ.ਙd.

Mihu pi miku.

3ani.int pst;sta red

"She was red."

#### Quhu qixa dasi pa.

・O・刈へ・下字・ある・ Quhu qixa dasi pa. 3ANI.TRA PST;DYN eat 3INA.INT "She ate it."

#### Mihu pi dasi 'iffa.

・そっつ・メル・か・あさ・ Mihu pi dasi 'iffa. 3ANI.INT PST;STA *eat* 3INA.TRA "She was eating it."

As can be seen, the only time the transitive case is used for the subject of a clause is in transitive (a as copular) sentences using dynamic or iterative auxiliaries.

# 36. Argument Promotion

The first noun in a clause is the subject, which is prototypically the agent in transitive sentences are patient in intransitive sentences. However, suffixes can be added to the verb to promote other nouns it clause, other than the genitive.

There are three such verbal suffixes, which can be stacked, however, once something has been shift from the subject position, it can't be promoted again.

## 36.1 Passive

The passive suffix promotes the object. This suffix has the forms:

- -'illu  ${}^{\circ}$  ${}^{\circ}$  ${}^{\circ}$  when the last element of a verb is monosyllabic,
- -ilu  ${}^{\square}$  ${}^{\square}$  ${}^{\square}$  replacing the final vowel if the final consonant is geminated, and
- -illu  $\stackrel{\circ}{\sim} \gamma ?$  replacing the final vowel of the verb elsewise.

The old subject is then marked with the ablative case. A sentence with this marker is intransitive. T demoted item is not compulsory, but if it is put in, it is the first ablative-marked noun in the new sente

#### Fu qixa kissa kilatu'i!

・・ウ木ペオ・ケッオ・下字・ 
Fu qixa kissa kilatu'i!
2TRA PST;DYN fight deer
"You fought a deer!"

#### Kilatu'i qixa (sacu) kissilu.

・○沿っオ・ユケ・下2・〇木〇月・ Kilatu'i qixa (sacu) kissa-ilu. deer PST;DYN (2ABL) fight-PSV "A deer was fought (by you)."

# 36.2 Ablative

The ablative suffix promotes the ablative. It has the form:

- -ka ) when the final consonant of a verb is geminate, or
- -kka <sup>></sup>? elsewise.

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.

#### Lulani qixa kalukimilli dasi qasa.

・・ケア・ルム・なっぱオペラ・マネ・本のペ・ Lulani qixa kalu-kimilli dasi qasa. queen pst;dyn abl-king eat fish "The queen ate a fish because of the king."

#### Kimilli qixa kuqasa dasikka lulani.

・・キンペー・プラス・ケアニ・下字・よっぱれ・ Kimilli qixa ku-qasa dasi-kka lulani. king pst;dyn dat-fish eat-ABP queen. "The king made the queen eat fish."

#### Kimilli qixa (kal·lani) dasilluka qasa.

・ケア・フロッカス・4 ヘロロン・下ネ・よっすオ・ Kimilli qixa kalu-lulani dasi-illu-ka qasa. king PST;DYN (ABL-QUEEN) eat-PSV-ABP fish "The king made the fish get eaten (by the queen)."

## 36.3 Dative

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.

#### Mulisa ru kuquxi kuffa laqqu.

・ケチャード 6 フェー・オーロン・・・ス・ロゴ・・ Quxi ru kulaqqu kuffaxa mulisa. mountain PRS;GNO DAT-money give-DTV fool "It is to the mountain that fools give money."

#### Quxi ru (kalumulisa) kuffiluxa laqqu.

# 36.4 Adposition

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.

·ゆで・そう』本・ゆ・<u>空</u>す・

Mihu pi ni-jagaru gupi.

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

"She sat in the sand."

#### Jagaru pi nigupu quhu.

·oz·つ4·4·4·4)7·

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.

·ファーな・スル・キシッ4・ゆ・。d・

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 nidasi quhu.

·あむ・みへ子・オッ全・C・ゆ・\*ラコ・

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 comused to separate a subordinate from its matrix. The conjunction is placed on the side of the main claus is closest to the subordinate. The clauses can be put in either order.

## ?usu ru lu'i fu daru'i, ba pu'iba miku ra'u.

$$\cdot \underline{\bigcirc} \land \cdot \underline{\Diamond} \cdot \underline{\Diamond$$

?usu ru lu'i fu daru'i, ba pu'iba miku ra'u.

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

"I love you because your ball is red."

#### Ba pu'iba miku ra'u, daru'i 'usu ru lu'i fu.

Ba pu'iba miku ra'u, daru'i 'usu ru lu'i 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 hightlighted. The cause is subordinate to the effect.

#### **37.1.1 Location Adverbial Clauses**

The word **ma** Ol where is often used as a prefix for adpositions used as clausal conjunctions.

#### ?usu lu'i fu madi, ba pu'iba miku qixa.

.200,5.00,5.00,0.00.5.4..

?usu 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."

## **37.2 Content Clauses**

A content clause is one that takes the place of a noun. They begin with the complementiser **li** & 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 puttu pa'illu.

 $\cdot$ \$- $\circ$ \$- $\circ$ \$-\$-\$-\$\delta\$-\$

Li 'usu kissa-jisuka ku-gibi?asi'a rusa, qixa puttu 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.

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?"

<u>·σΩ<sup>®</sup>·γφ·φ·βσ</u>: P·γ<sub>2</sub>·፴₫·

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

3ANI;INT PST;DYN speak "2INT fool PRS;STA?"

"He said, 'Are you a fool?"

# **37.3 Relative Clauses**

Relative clauses specify the noun by describing it. They begin with the relativiser **xiku** — 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.

·H→·≌P·Lp·3·4·2·4·2·4·

Xiku lu'i kimilli pi lulani.

REL love king PST;STA queen

"The queen who loved the king."

The queen who loved the king.

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

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

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

"The queen whom the king loved."

Any noun can be modified by relative clauses, including pronouns and proper nouns.

#### Xiku lu'i kimilli pi mihu.

・あd・ゆ・みっdオ・♀º・・ビボ・ Xiku lu'i kimilli pi mihu. REL *love king* PST;STA 3ANI;INT "The one who loved the king."

#### Xiku lu'i kimilli pi Sa'imi.

#### 37.3.2 Intransitives

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.

#### dissu'ahatira'u mulisa.

・・ケチャ・으 ネメルロ 合っつい feel\_happy-PRS;STA fool dissu'ahatira'u mulisa "the happy fool"

#### 'ibibuna suma

OI Δ·Λ·ΔΦΩ complain-PRS;HAB 1TRA 'ibibuna suma "the occasionally complaining me"

#### ka'ucani Ra'ani

↑○৪.↑¬○ jump-PRS;DYN Ryan ka'ucani Ra'ani the jumping Ryan

Similar are intransitives utilising the case markers and other adpositions.

#### kalukimilli nuhu.

∵る소・ょっ d オ<sup>∾ン</sup>・ kalu-kimilli nuhu ABL-king folding\_paper "the letter from the king"

#### kul·lani nukki.

・オっ全・牛○○ ←・ ku-lulani nukki ABL-queen strawberry "the strawberry for the queen"

# di'i'uja pa 0.7007 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 appet to the object, with or without the auxiliary, and the relativiser is dropped.

#### xucipura cula

○ユ・ペートラ xuci-pura cula feather-change egg "hatching egg"

#### hafidasira'u kipu

つす・으 ネ えん た か 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 claus thus are treated alongside them here.

# 37.4.4 Interrogatives

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

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

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

∴○Ջ⋅ΟΙ♠・Ϙ≌・Φ⊗≗・ Lulani lu'i suma ra'u? queen love 1TRA PRS;STA? "Does the queen love me?"

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

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

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

"Yes." / "No." / "She will." / "She did."

#### Lulani nimalu ji?

·º~04·40°·n·

Lulani nimalu ji?

queen bear PRS;NEG?

"Is the queen not a bear?"

```
Ji. / Ra'u. / Na.

□·○ஃ·♠

Ji. / Ra'u. / Na.

PRS;NEG. / PRS;STA. / PRS;HAB.

"Yes, she's not." / "No, she is." / "Usually."
```

If the focus of the question is on a particular noun, that noun receives a falling tone.

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

```
Lulani lu'i sama ra'u?

·으ஃ・이ぅ・ㅇ♡・♠♡♡.

Lulani lu'i sama ra'u?

Queen love what PRS;STA?

"Whom does the queen love?"

Kimilli. / Fu. / Cu'i.

·ょっぱっ・・・・・・・・・・

Kimilli. / Fu. / Cu'i.

King. / 2TRA. / Nothing.

"The king." / "You." / "No one."
```

## 37.4.5 Imperatives

An imperative statement is an order.

Second person imperatives are directed to the listener. In these, the subject is dropped, a future aux in the appropriate aspect is suffixed to the verb, and this verb complex is moved to the end of the sent These are spoken with a falling tone on the auxiliary.

```
Lulani lu'iruku!
```

```
.. ← ↓ ♀ ○ · ↑ ○ ○ ·
Lulani lu'i-ruku!
Queen love-FUT;GNO!
"Love the queen!"
```

# 38. Noun Phrases

The full noun phrase is made up of these components in the following order:

- 1. adposition-
- 2. case marker-
- 3. number
- 4. relative clause
- 5. main noun
- 6. -determiner
- 7. -conjunction
- 8. -genitive marker

The highlighted component denotes the only one that is compulsory, *i.e.*: the main noun itself. The hyphens represent the lack of a word space in both the Tinellbian script and the transcription.

## faluki <sup>3</sup><sup>2</sup> (v) journey

#### kukimilli (ii-v)

子になった

ku-kimilli

ABL-king

"to the king"

#### diku'i'uja (i-ii-v)

2005×

di-ku-'i'uja

*up-*DAT-*table* 

"onto the table"

#### harubijju nimalu (i-iii v)

 $^{\circ}$ OI $^{\bullet}$ · $\rightarrow$ 7 $^{\bullet}$ \* $^{\circ}$ 

haru-bijju nimalu

with-first bear

"with the first bear"

#### xiku dasi nukki na gusulumi (iv v-vi)

 $3^{\circ}$ ት የተመረተ የተመረተ

xiku dasi nukki na gusu-lumi

REL eat strawberry PRS;HAB person-several

"several people who eat strawberries"

#### kaluxiku kuluna 'usi na 'aba (ii-iv v)

60.4.30.4

kalu-xiku ku-luna 'usi na 'aba

ABL-REL DAT-moon see PRS;HAB all

"because of everyone who looks at the moon"

#### 'adira qikannihisupi xa?u (i-iii iv v)

 $O_{\gamma}^{1} \cdot \phi + O_{\gamma}^{2} \cdot \phi_{\gamma} = O_{\gamma}^{2} \cdot \phi_{\gamma} + O_{\gamma}^{2$ 

'adi-ra qikanni-hisu-pi xa?u

near-two dog-administer-PST;STA child

"near the two children who had looked after dogs"

## julliga nuraqixa kasataqa 'ara (iv v-vii-viii)

julliga nura-qixa kasa-ta-qa 'ara

mother leave-PST; DYN man-and-GEN face

the faces of the mothers and the men who left.

# 39. Gerunds

The gerund suffix -ru & changes basic verbs into nouns describing the activity.

hubaru ູ 🕹 Ó ō breathing

malaru &∾o| reflecting

mikuru 头←d being red

Compound verbs, as well as those involving noun incorporation, can also be changed like this.

```
dissu'ahatiru キャロ 合っつ feeling happy pakicuru キュオロ believing to be true
'i'issiru キメックロ singing
```

The genitive determiners, including -qa?, allow for (only) the subject of the verb to be mentioned.

## jannikiluquruqa nimalu

jannikiluqu-ru-qa nimalu walk-GER-GEN bear "the bear's walking"

#### guqqirupahi

90メ⊋った guqqi-ru-pahi bad-GER-1GEN "my being bad"

This continues to apply in instances using argument promotion.

#### dasilluruqa dasu

☆ へ・ア & <sup>○</sup> つ えん dasi-illu-ru-qa dasu eat-PSV-GER-GEN meat "the eating of meat" sikukkarudisi メスよっこと siku-kka-ru-disi die-ABV-GER-3ANI;GEN "his murdering of another"

#### 'usaxaruqa luna

小º・ア永下♪○

'usa-xa-ru-qa luna

look-dtv-ger-gen moon

"looking at the moon"

# 40. Apocrypha

This section details particular categories of vocabulary items.

# 41. Numbers

# **41.1 Cardinal Numbers**

The number system in High Lulani uses balanced sesquidecimal (base 15), and so numbers are writering the system in High Lulani uses balanced sesquidecimal (base 15), and so numbers are writering the system in High Lulani uses balanced sesquidecimal (base 15), and so numbers are writering the system in High Lulani uses balanced sesquidecimal (base 15), and so numbers are writering the system in High Lulani uses balanced sesquidecimal (base 15), and so numbers are writering the system in High Lulani uses balanced sesquidecimal (base 15), and so numbers are writering the system in High Lulani uses balanced sesquidecimal (base 15), and so numbers are writering the system in High Lulani uses balanced sesquidecimal (base 15), and so numbers are writering the system in High Lulani uses balanced sesquidecimal (base 15), and so numbers are writering the system in High Lulani uses balanced sesquidecimal (base 15), and so numbers are writering the system in High Lulani uses balanced sesquidecimal (base 15), and so numbers are writering the system in High Lulani uses balanced sesquidecimal (base 15), and so numbers are writering the system in High Lulani uses balanced sesquidecimal (base 15), and so numbers are writering the system in High Lulani uses balanced sesquidecimal (base 15), and so numbers are writering the system in High Lulani uses balanced sesquidecimal (base 15), and so numbers are writering the system in High Lulani uses balanced sesquidecimal (base 15), and so numbers are writering the system in High Lulani uses balanced sesquidecimal (base 15), and so numbers are writering the system in High Lulani uses balanced sesquidecimal (base 15), and so numbers are writering the system in High Lulani uses balanced sesquidecimal (base 15), and so numbers are writering the system in High Lulani uses are writering the system in High Lulani uses are writering the system in High Lulani uses are writering to the system in High Lulani uses are writering to the system in High Lulani uses are writering to the system in High

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	<b>かっ</b> ま	0	(qi)hha	として	0
xita	ΛĬ	1	mullu	$\frac{8}{2}$ 2 $\Phi$	1
ra	8	2	kannu	<u></u> ፈጋጋ	2
kifi	<b>/67</b>	3	bila	Οφ	3
nuru	ዾ፞፞ዹ	4	missu	<del>_</del> ^ad	4
guhi	ےو	5	laffi	<i>1</i> 62€	5
'usi	있으	6	jusiti	-KK	6
salumi	đ≌ş	7	haki	<b>٦</b> ٢	7

The full form **qihha** P72 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- 5 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 >>.

```
sahha アクタ 10
rahha アクタ 20
kifihha アクタオ 30
```

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

```
mullukifi \beta \nearrow ^{\circ} \uparrow \Leftrightarrow 13
xitasalumi \eth \circ \uparrow \land \sqcap 17
ranuru \$ \triangle ^{\circ} \land 24
kifilaffi \beta \uparrow \circ \circ \beta \nearrow 35
```

The word for 22, the exception, is **ranira** \$\$.

## 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** \$\frac{1}{2}\triangler\$. 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.

takkinurukannu かつみかすっへ 142
guhitakki 'usibila へが以으・オットタム 563
sahhatakki kifinuru キケメラ・オットアット 1034

kannuratakki missumullu <sup>○</sup>っ <del>◆</del> ☆ っ ð · オ っ ∧ <sup> &</sup> 소 っ <sup> </sup> 2241

In any of these cases, if the remainder is zero, it is left off.

mullutakki オット<sup>い</sup>っ 中 100 ratakki オット<sup>8</sup> 200 saguhitakki オット<sup>9</sup> 4 5 1500 bilasalumitakki オット す<sup>い</sup> 5 0 6 3700

## 41.1.4 Higher and Lower Order Numbers

When a number is written out in digits, each set of four digits from the fractional point makes up a The group furthest from the fractional point may not have this full quota of digits. An index marker not the identity of a particular group.

The index marker is composed of the prefix **pa-** O followed by the number of groups between this and the fractional point. Positive index numbers are for the integer part of the number, and negative ir numbers are for the mantissa.

The index marker is suffixed to the group word.

There is nothing preventing an index-marked number being used within another index marker, although the second **pa-** is usually geminated.

```
раррахіtа ∧йоло 1,0000<sup>1,0000</sup> рараррахіtа ∧йолоо 1,0000<sup>1,0000</sup> 1,0000
```

## 41.1.5 Non-integral Numbers

#### 41.1.5.1 Reading Mantissas

There are two ways to read a mantissa. One uses the above method of index markers, and the secor reads out the digits in pairs or individually. These methods are often combined: using index markers f first digit groups, and then continuing to read digits separately.

#### 41.1.5.2 Repeating and Reflecting Strings

All rational numbers end with a repeating string of digits. For some numbers, this string is "0". In r

zero cases, the word **tuni**  $\triangle \pi$  *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 NOI reflect inserted.

#### **41.1.5.3 Fractions**

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

```
'ima / saki ra ロロ・ペ・オケ ½;
saki kifi カオ・オケ ⅓
kifiki nuru キ소・オルオ ¾
```

# **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  $-\mathbf{uju} \rightarrow$  to the cardinal number.

# **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

ゅっぱオ・ナキ소

nuru-uju kimilli

four-ORD king

"the fourth king"
```

#### kalusalumi lulani

The ABL-seven queen "due to the seven queens."

Numbers can be suffixed to a noun to denote not the quantity, but a quality.

#### salumi sinnadi

ストゥル・d<sup>∞</sup>5 salumi sinnadi seven book "seven books"

#### sinnasalumi

d<sup>∞</sup>介介ル sinnasalumi story-seven "septet"

The number  $\mathbf{ra}^{\ \ \ }$  two can be used in this way to refer to a pair of something.

luffura  $\stackrel{\circ}{\sim} \stackrel{\circ}{\sim} \stackrel{\circ}{\sim} eyes$ 'itikkura  $\stackrel{\circ}{\sim} \stackrel{\circ}{\sim} \stackrel{\circ}{\sim} p$  breasts tibara  $\stackrel{\circ}{\sim} \stackrel{\circ}{\sim} legs$ 

# 42. Colours

The basic colour terms are all verbs:

baju 子Ó blue
sa か yellow
miku 上 d red
millu <sup>い</sup>っ d brown
ki?a <sup>い</sup>っ オ white
ga テ black

**Baju**  $\not \to \circ$  *blue* covers both light and dark blue, the darkest violets, and all but the lightest shades of **Sa**  $\not \to$  *yellow* covers the lightest shades of orange and green, as well as standard yellow. **Miku**  $\not \subset \vec{\partial}$  *red* to all of red and pink, light purples and most of the orange spectrum, however, dark orange is subsum under **millu**  $\overset{\circ}{=} \gamma \vec{\partial}$  *brown*.

The figure above shows which shades are referred to by which term. **Ki?a** Only white is used to refer very light greys, as well as the usual white. **Ga** I black is used to refer to the darker greys, tending too

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the black.

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

mikumulu <sup>©</sup> & こう blood red bajukunubi ��ニナÓ sky blue ki?amasi 沿이<sup>O</sup>つオ snow white

# 43. Comparatives

The comparative marker is an adposition  $\mathbf{su} \triangle than$  placed on the noun being compared against.

#### Hannaku suqikanni xusina.

"Cats are cuter than dogs."

For "little more", the qualifier **tuci**  $\lceil \tau \rceil$  half-do is affixed to the verb.

#### Luffuba suhuri bajutuci.

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**  $\mathcal{L}^{\mathcal{R}}$  intensely.

#### Musa sulupumma cussi'alarali.

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  $ka^{3}$  as, an adposition.

## ?usu kafilli qi'iku.

·<u>O</u> A. Cd. C. \$. 502.

?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**  $\circ \phi$  placed before the verb.

## Jamahi piba xusajja.

・オフタラ・Óφ・9017・
Jamahi piba xusajja.

Garden most be\_quiet.

"The gardens are the quietest."

#### piba xusajjara'u jamahi

9017・0ペカックラ・Óゆ piba xusajja-ra'u jamahi most be\_quiet-PRS;STA garden "the quietest garden."

# 44. Kinship

# 44.1 Marriage

**Ju'idukuru**  $A \subseteq \Lambda$   $A \cap A$  marriage is the life-bonding of two people. It is intended to be eternal, but C broken if requested by either partner. It is not an exclusive arrangement, and one can be involved in concurrent marriages.

A bonded person is called a **silu**  $\cong \lambda$  *spouse* when using possessive pronouns, and **xalli**  $\xi \gamma \gamma$  *marri person* otherwise.

# 44.2 Nuclear Family

The words **kitisu**  $\triangle 33$  father and **julliga**  $349 \rightarrow mother$  usually refer to biological parents, but can applied to the main guardians if the biological parents are not around. These are used without possess except for the inalienable genitive marker -qa 960 GEN

The following table shows the possessive forms:

	mother	father
1st person	pi'apagu ∠⊙ <sup>O</sup> φ	
2nd person	pihaba Óρφ	
3rd person topic	pihasu'a O♠ρφ	
3rd person animate	pi'adisi 刈つゆ	saddisi ろっかん

There are two terms for children:  $\mathbf{tu} \times \mathbf{t}$  offspring for postnatal children, 'appu  $\nabla \gamma^{O}$  foetus for ante Both of these are gender-neutral, and are most often used with possessives.

There can be a suffixed ju'i  $\bigcirc \neg$  link for spouses' offspring and parents' spouses.

## sappaguju'i

マナムのつう sappagu-ju'i father;1GEN-link "my step-father"

#### tuju'iba

ó♀→⊼ 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** ? ? ? elder sibling and **kica** ? ? 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
O <sub>Z</sub> ,	$_{\odot}$ k-C	<b>?</b> ⊘	<b>た</b> つ五	<u></u>	g³.	$Q_{cK}^{c}$
helium	neon	argon	krypton	xenon	radon	oganesson
la	ca'a	limma	bi	papa	sicu	buccata
<i>(&gt;</i>	٥٦	0 7Y	ф	00	ユ刈	<b>▼</b> 」ン <i>*</i> ○
hydrogen	fluorine	chlorine	bromine	iodine	astatine	tennessine
	sa	ta	matirra	lasu	cakassu	suda
	5	٨	OK c <sup>∞</sup>	$\stackrel{\wedge}{\sim}$	$rac{1}{4}$	<b>∧</b> <u></u>
	oxygen	sulfur	selenium	tellurium	polonium	livermorium
	sutta	pibi	da'u	salari	'aggini	rili
	<b>Λ</b> 2 <del>△</del>	$\phi\phi$	<u>0</u>	શ∾ઙ	<b>4</b> 対20	<b>ራ</b> ህ
	nitrogen	phosphorus	arsenic	antimony	bismuth	muscovium
	xu	'ama	xuhhi	laji	musaqu	xa'a
	月	Olo	$\Xi_{c}$	r∾	<b>ͻϧ</b> Ϙ	0 k
	carbon	silicon	germanium	tin	lead	flerovium
	kuxxu	disa	'ali	luka	silla	rabaci
	2cE	57	٥٫٤	o⊂	∾าฝั	ΓÓՋ
	boron	aluminium	gallium	indium	thallium	nihonium
			hika	kaca	'usa	hatanu
			29	$^{T}$	<u>5</u>	$\Delta_{\Lambda}$ $^{\circ}$
			zinc	cadmium	mercury	copernicium
			suki	ni	fi	su'usi
			<b>1</b> ☆	<b></b>	<i>)</i> 5	ス <del>ㅇ</del> 슷
			copper	silver	gold	roentgenium
			tasa	qala	jala	na'ipa
			<b>څ</b> ٨	$\sim$ 7	№1	094
			nickel	paladium	platinum	darmstadtiun
			gaxiki	fula	natu	nakaku
			Άμϡ	00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	$\pi \wedge$	$\neg c$
			cobalt	rhodium	iridium	meitnerium
			'a	nasufi	supu	'i'ami
			0	∕s⇔∧	AC	900
			iron	ruthenium	osmium	hassium
			qumalli	nikili	hasuki	cabahi
			द् <del>र</del> ाठार	<b>ራ ጎ</b>	<b>1</b> ☆ 🌣	<b>9</b> ó₁
			manganese	technetium	rhenium	bohrium
			fada	sula	mina?i	saniki
			۸3	<u>~</u>	<b>Pっ</b> 个す	7 <b>个</b> 分
			chromium	molybdenum	tungsten	seaborgium
			nussa	lakka	hila	nullasu
			<b>今つ</b> 全	0°C	CO	<del>_</del> იიაბ
			vanadium	niobium	tantalum	dubnium
			ka'i	pusu	tacuca	famati
			γ)		コユヘ	\$IOK
			titanium	zirconium	hafnium	rutherfordiun
					kixa	nulina
					<b>ጉ</b> 계	<u> </u>

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