# Horen Lì'fyayä leNa'vi A Reference Grammar of Na'vi

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## 1. Introduction

We do not yet have an official grammar of the Na'vi language, written by Paul Frommer and blessed by the financial and intellectual property Powers that Be at Lightstorm Entertainment or 20th Century Fox. As of this writing it does not seem likely we'll be getting one very soon.<sup>1</sup> In light of that, I decided to turn a grammar summary I wrote into a longer document.

Like that grammar summary, this document will not teach you Na'vi. Instead, it is intended to provide a concise and accurate reference on the current state of our knowlege about the language. It is based on all the analytical work that has gone on in the months and years since the film was released, as well as any communications from Frommer which clarify language points.

I rely heavily on the Corpus and Canon wiki pages at LearnNavi.org, without which resources this document would not be possible. The recent appearance of Frommer's own blog has also provided material.<sup>2</sup>

#### 1.1. History of Decipherment

It is important for newcomers to Na'vi to understand how it is we know what we know about the Na'vi language.

Our earliest hints about the language came out in interviews with Frommer in December of 2009, leading up to the release of the film. Na'vi had ejective consonants. It had a tripartite case division. We had a few phrases.

The big break came when someone among the IMDB refugees on their own forum posted the Na'vi word list.<sup>3</sup> It was transcribed from the *Activist Survival Guide.*<sup>4</sup> That list was republished in a public blog post on December 11th.<sup>5</sup> All current dictionaries are based on that initial post. So, now we had enough vocabulary to start analyzing the sentences coming out in Frommer's interviews.

On December 15th, in an interview with the UGO Movie Blog<sup>6</sup> we got for the first time that fundamental Na'vi greeting, **oel ngati kameie** *I See you*. This was in addition our first sighting of

<sup>&</sup>lt;sup>1</sup>First written in July 2010. Still true in January 2023.

<sup>&</sup>lt;sup>2</sup>In late June 2010, https://naviteri.org

<sup>&</sup>lt;sup>3</sup>https://kcbluesman.websitetoolbox.com/post?id=4013403 requires login

<sup>&</sup>lt;sup>4</sup>Wilhelm, Maria; Mathison, Dirk (2009). James Cameron's Avatar: A Confidential Report on the Biological and Social History of Pandora (An Activist Survival Guide), It Books (HarperCollins).

<sup>&</sup>lt;sup>5</sup>http://www.suburbandestiny.com/?p=611

<sup>&</sup>lt;sup>6</sup>https://web.archive.org/web/20100818193039/http://www.ugo.com/movies/

the agentive and patientive case endings. Thanks to the dictionary, we could guess -l for agentive and -ti for patientive.

Our next big break came a few days later, with the Language Log guest blog post on December 19th.<sup>7</sup> This is still fundamental reading for every student of Na'vi. In it we learn a good deal about the Na'vi sound system. It also told us enough about Na'vi grammar to guide all our future analysis of the examples coming out in interviews.

Even now, much of what we know has come not from Frommer directly telling us, for example, "this is the genitive case ending," but by him saying in an interview that there is a genitive, and people using that information to analyze Na'vi language examples. Some of the early analysis was incomplete, which has led to some confusion, especially about case endings. Our earliest examples of the genitive were all in -yä. Only later did we see evidence of the -ä ending. One can still find older documentation giving the genitive as -yä only.

In the months since then, Frommer himself has provided larger examples of Na'vi, each of which has been analyzed in great detail in order to extract as much grammatical information as possible. Frommer has also answered some direct questions about the language. This often confirms what we suspected from analysis, sometimes corrects what we thought we know, and sometimes gives us new information.

I have tried as much as possible to ensure that everything in this grammar is confirmed directly by Frommer himself or, absent that, by giving enough examples from Frommer's own Na'vi to make the case for the grammatical point being explained. Nonetheless, this document is necessarily provisional. It is Frommer's prerogative to tweak and update the language in light of his own understanding of the language's needs, to correct misconceptions that may have escaped his notice until now, and to fill in grammatical gaps as he gets to them. We must also assume that future *Avatar* movies will alter the Na'vi language in unexpected ways, not only to satisfy Cameron's demands for his movies, but from the inevitable changes a created language undergoes when actors finally speak it on the set.

#### 1.2. Notation and Conventions

Na'vi text is given in bold face type and English translations in italics, fifya thus.

When a Na'vi example comes directly and unmodified from the interviews, email or blog of Paul Frommer there will be an  $\mathcal{F}$  floating in the margin, as in **kiyevame**. The *Hunt Song* and the  $\mathcal{F}$  *Weaving Song* from the *Activist Survival Guide* are also so marked. Examples from the movies use  $\mathcal{A}$  and  $\mathcal{A}^2$ .

This work uses the digraphs **ts** and **ng** instead of the scientific orthography Frommer developed (§2.1.1.3). The majority of people are more familiar with the digraph system.

In Frommer's original documentation for the actors stress accent was indicated by underlining the stressed syllable. This grammar follows that practice, as in <u>tute</u> *person* vs. tute *woman*. To avoid confusion with Frommer's accenting convention, this document uses a wavy <u>underline</u> to draw attention to parts of words or phrases.

paul-frommer-interview

<sup>&</sup>lt;sup>7</sup>https://languagelog.ldc.upenn.edu/nll/?p=1977

Following the usual convention in technical linguistics works, examples that are hypothetical or have some sort of error are marked with a leading asterisk, **\*m'resh'tuyu**. Prefixes are indicated by putting a dash at the end of the prefix, as in **fi**-. Leniting prefixes (§2.2) use a plus sign, as in **ay+**. Suffixes are indicated with a leading dash, **-it**, and infixes with small brackets,  **Transcription** using the International Phonetic Alphabet goes between square brackets, [fr./fja].

When quoting one of the four songs Frommer translated for the film, I use a single slash to separate lines, **Rerol tengkrr kerä** / Ìlä fya'o avol.

Starting in September of 2011, links to citations for grammatical points are included for new material. They occur at the end of a section, and look like this: NT (11/7/2010). Note that the dates follow European convention, Day/Month/Year. "NT" is for Frommer's blog, including his replies in comments, "Wiki" is for the LN.org Wiki, "Forum" is the LN.org forum, and "Ultxa" is for the October 2010 meeting. There remain gaps in citations for some areas, and I fill these in as I notice them.

Text in maroon is for matters that seem to me to be serious questions about the language but for which no answer is currently available. Some will require simply confirmation from Frommer, others will require much deeper thought and work on his part. This grammar aspires to someday be maroon-free.

**1.2.1. Reading the Interlinears.** This grammar was first written with the idea that anyone reading it would have a basic command of Na'vi already. That is not a sound assumption these days (2022), so I have begun to add more detail to some of the examples, in the form of interlinears. These are a way to explain everything going on in an example – grammar, vocabulary, morphology – even to someone unfamiliar with the Na'vi language. This is the format:

(1) Oel ngati kameie. oe-l nga-ti kam‹ei›e 1sg-agt 2sg-pat see‹pos.aff› *I see you.* 

The first line has the original Na'vi text. The second shows the prefixes, suffixes, and infixes. The third line explains each part, with numbers for the pronouns (1sG = first person singular pronoun), and various abbreviations for different parts of Na'vi grammar. Finally, the last line has the conventional translation.

The abbreviations take a little getting used to, but keep the examples brief and are easier to read in the long run.

s: subject, unmarked form	REL: relative <b>a</b>	NEG.AFF: negative attitude
AGT: agent, <b>-(ì)l</b> form	PFV: perfective	сегем: ceremonial
РАТ: patient, <b>-(i)t</b> form	IPFV: imperfective	INFER: inferential
DAT: dative, <b>-(u)r</b> form	PST: past	ACT.PCPL: active participle
GEN: genitive, <b>-(y)ä</b> form	REM.PST: remote past	PASS.PCPL: passive participle
тор: topical, <b>-(ì)ri</b> form	FUT: future	CAUS: causative
voc: vocative ma	REM.FUT: remote future	REFL: reflexive
LIG: adjective <b>-a-</b> ligature	suвj: subjunctive	quoт: quotative <b>sansìk</b>
DIM: diminutive ( <b>-tsyìp</b> )	POS.AFF: positive attitude	

Some Na'vi grammar affixes are infixes — they go into the middle of a word. Since English does not allow that, in the grammatical explanation line (line 3), the infixes are on the right or left side of the word. The example above has the positive attitude infix, which I note to the right of the word *see*, with the small  $\langle$  and  $\rangle$  signs, instead of dashes used for prefixes and suffixes.

Converting old examples to use interlinears started in Summer 2022, and will take a while to complete.

#### 1.3. The Way of Water

A new dialect of Na'vi appears in the second film, *Avatar: the Way of Water* (2022). As a practical matter, the main dialect of this grammar is Forest Na'vi (Lì'fya Na'ringä), the language of the first movie and really the only Na'vi material to appear for a decade. In *The Way of Water* the new dialect is Reef Na'vi (Lì'fya Wionä).

The main differences between the two dialects include all of phonology, morphology, syntax, and the lexicon. Among the phonological differences, there are different pronunciations for the ejective consonants, a different treatment of the glottal stop between vowels, and a vowel merger in Forest Na'vi that didn't happen in Reef Na'vi, which thus retains **u** and **ù** as separate vowel phonemes. One example of a lexical difference is that Reef Na'vi favors **syawm** *know* where Forest Na'vi uses **omum**.

Because we have so much more Forest than Reef Na'vi, this grammar presents the dialect notes largely in reference to Forest Na'vi.<sup>8</sup> Notes on Reef Na'vi are spread throughout the grammar, but I index these notes thoroughly, to make it easier to find the Reef Na'vi details.

Thanks are due to LearnNavi.org members 'Eylan Ayfalulukanä, Taronyu and Ftiafpi for looking at early drafts of this grammar and making suggestions. I did not always follow their advice, so any flaws are my own.

Thanks also to everyone who has commented and suggested corrections since this grammar first appeared, as well as to all those who have asked Paul questions over the years and posted his answers in public places for everyone to learn from.

Finally, many thanks to Paul Frommer, who keeps answering grammar and vocabulary questions when he can, for more than a decade.

<sup>&</sup>lt;sup>8</sup>In no way should this be taken to mean that Forest Na'vi is somehow a standard, or more correct, than any other dialect.

## 2. Letters and Sounds

#### 2.1. Sound System

The Na'vi language has 20 consonant sounds, 7 vowel sounds and two syllabic resonants Frommer calls "pseudovowels." LangLog (9/12/2009)

**2.1.1.** Consonants. Below are the consonants of Na'vi. Phonemes in parentheses are Reef Na'vi pronunciations of certain phonemes and assimilations, but which don't get a separate spelling.

	Labial	Alveolar	Palatal	Velar	Glottal
Ejectives	<b>px</b> [p']	<b>t</b> x [t']		<b>kx</b> [k']	
Voiceless Stops	<b>p</b> [p]	<b>t</b> [t]		<b>k</b> [k]	'[?]
Voiced Stops	([b])	([d])		([g])	
Affricate		<b>ts</b> [ts]	([tʃ])		
Voiceless fricatives	<b>f</b> [f]	<b>s</b> [s]	([ʃ])		<b>h</b> [h]
Voiced fricatives	<b>v</b> [v]	<b>z</b> [z]			
Nasals	<b>m</b> [m]	<b>n</b> [n]		<b>ng</b> [ŋ]	
Liquids		<b>r</b> [r], <b>l</b> [l]			
Glides	<b>w</b> [w]		<b>y</b> [j]		

2.1.1.1. The voiceless stops are unaspirated at the beginning and middle of a word. They are also unreleased at the end of a word, as well as at the end of a syllable when followed by another consonant (such as **txepmì** and **'oktrr**). However, within a phrase a final stop coming before a vowel will in natural speech be released as the words flow together, **oel set omum**. Unreleased stops will be most noticeable at major pauses, as in **oel omum set**. NT (23/12/2020)

**2.1.1.2.** The **r** is an alveolar flap. The **l** is clear and front, as in "leaf," not the velarized, "dark-l" of English "call".

2.1.1.3. Frommer devised a scientific orthography in which two of the digraphs were written as a single letter, c for ts and g for ng. The digraph system was easier for the actors, but it has been also used by Frommer in media interviews and in most of his own email. The scientific orthography is only seen in a few early emails to and from Frommer.

2.1.1.4. Because plain stops can be used as syllable codas, the more common ejective notation, **p**', is too ambiguous: **tsap'alute** is not **\*tsapxalute**. Wiki (21/12/2009)

**2.1.2.** Vowels. The vowel in parentheses only shows up as a distinct phoneme in Reef Na'vi. All the others are in both dialects.

$$\begin{array}{ccc} \mathbf{i} \ [\mathbf{i}], \, \mathbf{i} \ [\mathbf{I}] & (\mathbf{\dot{u}} \ [\upsilon]), \, \mathbf{u} \ [\mathbf{u}], [\upsilon] \\ \mathbf{e} \ [\varepsilon] & \mathbf{o} \ [\mathbf{o}] \\ & \mathbf{\ddot{a}} \ [\varepsilon] & \mathbf{a} \ [\mathbf{a}] \end{array}$$

2.1.2.1. Reef Na'vi pronounces u as [u] in all positions, and  $\dot{u}$  as [v] in all positions. Wiki (8/1/2023)

2.1.2.2. Forest Na'vi has merged the vowels **u** and **ù**, so that they are always [u] in open syllables, and may be either [u] or [ $\upsilon$ ] in closed syllables. Lu is always pronounced [lu], while pum may be either [pum] or [p $\upsilon$ m]. Wiki (20/5/2010)

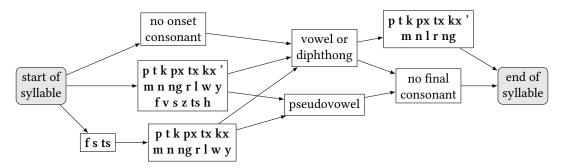
2.1.2.3. The diphthongs are **aw**, **ay**, **ew** and **ey**. Only in diphthongs will **w** or **y** be seen at the end of a syllable (**new**) or before a final consonant (**hawng**). Syllable shapes like \***niw** or \***hoyng** cannot occur.

2.1.3. Pseudovowels. The pseudovowel rr is a syllabic, trilled [r:], and ll is a syllabic [l:].

2.1.4. Syllable Structure. Na'vi has a strict but straightforward syllable structure.

- A syllable is permitted to have no onset consonant (i.e., it may start with a vowel).
- A syllable is permitted to have no coda consonant (i.e., it may end with a vowel).
- Any consonant may start a syllable.
- A consonant cluster of f s ts + p, t, k, px, tx, kx, m, n, ng, r, l, w, y may start a syllable (e.g., tslam, ftu).
- P t k px tx kx 'm n l r ng may occur in syllable-final position.
- Ts f s h v z w y may *not* occur in syllable-final position.
- There are no consonant clusters in syllable-final position.
- A syllable with a pseudovowel must start with a consonant or consonant cluster and must not have a final consonant; this plays a role in lenition (§2.2.1) and the declension of nouns (§3.1.1.1).

A visual representation of these core syllable structure rules:



2.1.4.1. Since a syllable may lack a consonant onset or coda, it is not unusual to see several vowels next to each other in a word. In that case each vowel is a syllable, **muiä** [mu.i.æ], **ioang** [i.o.aŋ].

2.1.4.2. In general, the sequence VCV will be syllabified V.CV rather than VC.V, so **tsenge** is  $[ts\epsilon.\eta\epsilon]$  not \* $[ts\epsilon\eta.\epsilon]$ . Onomatopoeia may override this, as in **kxangangang** [k'aŋ.aŋ.aŋ], where the echo effect is desired.

2.1.4.3. There are no long vowels in Forest Na'vi, meaning identical vowels will not occur next to each other (but see §2.3.1). Reef Na'vi, due to glottal stop elision (§2.1.6.3), can have long vowels in several environments, including by omitting contraction (§2.3.1.5).

2.1.4.4. Double consonants do not occur in root words, but may occur at morpheme boundaries, for example in derivations, tsukkäteng < tsuk- + käteng, or with enclitics Mo'atta < Mo'at + ta (§2.1.5.3).

2.1.4.5. As is usual in most Human languages, some interjections break the rules, such as **oisss**, a sound for anger, or **saa**, a threat cry.

**2.1.5. Stress Accent**. Every Na'vi word has at least one stress accent, which is not predictable. In a very few situations otherwise identical words may differ only by accent, such as <u>tute</u> *person* vs. **tute** *woman*.

2.1.5.1. For this word alone, *woman*, an accent may be written in normal Na'vi to indicate the accent, **tuté**.

2.1.5.2. Some word creation processes may cause accent shifts (§5.1.2.3, §5.1.8).

2.1.5.3. All adpositions as well as a few conjunctions and particles may be enclitic. They give up their own stress accent and effectively become part of the word to which they are attached, and are written so, tsane (< tsaw + ne), horentisì (< horenti + sì).

2.1.5.4. Though a noun compound is written as a single word, the individual parts of that compound may each retain their original accent, as in **tireafya**'o *spirit path*.

**2.1.6. Reef Na'vi**. The reef Na'vi dialect has differences in both consonants and vowels from Forest Na'vi. NT (8/1/2023)

2.1.6.1. An ejective consonant at the start of a syllable—and, thus, also at the start of a word—is instead pronounced as a voiced stop in Reef Na'vi. That is,  $px tx kx \rightarrow [b d g]$ .

txon	[don]	night
holpxay	[hol.ˈbaj]	number
kxitx	[git']	death
skxawng	[sk'awŋ] (as in Forest Na'vi)	moron

In general, this change is not spelled out. That is, Reef Dialect text will spell *night* as **txon** but expect the reader to understand it is pronounced as though **don**. If you wish to emphasize that the reef dialect is being used, however, it can be spelled **don**.

In a word like **tìkankxan**, spelling out the Reef Dialect change results in an ambiguous spelling, **\*tìkangan**. To prevent interpreting the spelling ...**ng**... as [ŋ] instead of [ŋg], an interpunct (preferred) or hyphen may be used: **tìkan·gan** or **tìkan-gan**. OmatiCon (15/1/2023) NT (15/1/2023)

2.1.6.1.1. When a word that ends with an ejective takes a suffix that starts with a vowel, the pronunciation of the ejective will adjust to the new syllable structure. For example, 'awkx is [?awk'], with the ejective, but 'awkxit is ['?aw.git], with the voiced pronunciation. NT (13/1/2023)

2.1.6.2. When in a cluster with y the s and ts palatalize. That is, sy is pronounced [ʃ] and tsy is [tʃ]. Due to Na'vi's syllable structure, this can only happen at the start of a syllable.

syaw [ʃaw] call tsisyì [ˈtsɪ.ʃɪ] whisper (v.in.)

This Reef Na'vi sound change is never indicated in spelling.

2.1.6.3. When between two vowels, the glottal stop is normally dropped in Reef Na'vi. Both vowels are still distinctly enunciated, even if they are identical, as in **rä'ä** below,

fra'u	frau	everything
Lo'ak	Loak	Lo'ak (personal name)
rä'ä	rää	don't

This change is also present to a certain degree in Forest Na'vi, such as with the name Lo'ak (§2.3.8.1).

While the glottal stop is retained at the start and end of words, when affixes are added which then place the stop between vowels the stop may be dropped. For example, the phrase for *humorous person* is **tute a'ipu** in Forest Na'vi, but **tute aipu** in Reef Na'vi, or the adverb **n**iaw rather than Forest Na'vi **n**i'aw. NT (14/1/2023)

2.1.6.4. In unstressed syllables ä may become e in Reef Na'vi.

<u>nge</u> yä	ngeye	your
tätxaw	tedaw	return (v.in.)
kä	kä	go

OmatiCon (15/1/2023)

**2.1.7. Spoken Alphabet**. Except for **tiftang**, the glottal stop, the names of the phonemes encode information about how the sound is used. They also have unusual capitalization when written out:

tìftang	Ì	ReR
Α	KeK	'Rr
AW	KxeKx	Sä
AY	LeL	TeT
Ä	'Ll	TxeTx
Ε	MeM	Tsä
EW	NeN	U
EY	NgeNg	Vä
Fä	0	Wä
Hä	PeP	Yä
Ι	PxePx	Zä

2.1.7.1. Vowels and diphthongs are simply pronounced and spelled as themselves. The pseudovowels take a leading glottal stop, since they require a consonant onset (§2.1.4).

**2.1.7.2.** The name for consonants which cannot end a syllable are formed by adding **ä**, as in **Tsä**. Those which can end a syllable use the vowel **e** and repeat the consonant at the end of the name, **PeP**.

#### 2.2. Lenition

Certain grammatical processes cause changes in the first consonant of a word. This change is called "lenition." Only eight consonants undergo lenition. LangLog (9/12/2009)

Consonant	Lenition	Example
px, tx, kx	p, t, k	txep but mì tep
p, t, k	f, s, h	kelku but rohelku
ts	S	tsmukan but aysmukan
,	disappears	'eylan but fpi eylan

In the interlinears, lenition is removed in the morphological breakdown on the second line (as in ex.2 below).

2.2.1. Glottal Stop. The glottal stop is not lenited when it is followed by a pseudovowel (mì 'Rrta not \*mì Rrta). NT (3/28/2012)

**2.2.2.** Adpositions. A few adpositions cause lenition when they precede a word: **fpi**, **ìlä**, **mì**, **nuä**, **ro**, **sko**, **sre** (and derived **lisre** and **pxisre**), **wä**. When suffixed they do not cause lenition in either the word they are attached to or to the following word. NT (7/7/2010)

**2.2.3.** Number Prefixes. Prefixes which cause lenition are indicated with a plus sign, rather than the usual dash, as in ay+, the leniting plural prefix.

**2.2.4.** Question Prenoun. When used as a prefix, the question prenoun **pe+** causes lenition (§3.3.3), as in pehem *what* (*action*)? from kem *action, activity*.

**2.2.5.** Numbers. Suffixed, dependent forms of the numbers are lenited ( $\S4.1.3$ ), as in vopey *eleven* (8 + 3), but pxey *three*.

2.2.6. Proper Nouns. Proper nouns still undergo lenition.

(2) **Oe kelku si mì Helutral.** oe kelku si mì Kelutral 1sG home do in hometree *I live in hometree* 

NT (10/28/2010)

**2.2.7.** Reef Na'vi. Although the ejectives in Reef Na'vi surface as voiced stops at the start of a word, the rules of lenition still apply as in Forest Na'vi. That is, though **txon** *night* is pronounced as **don** in Reef Na'vi, the lenited form is still **ton**. Wiki (8/1/2023)

## 2.3. Morphophonology

**2.3.1. Vowel Contraction**. Since identical vowels may not occur next to each other, a few grammatical processes involve a doubled vowel reducing to just one.

2.3.1.1. The adjective morpheme -a- disappears when attached to an a at the start or end of an adjective, as in apxa tute not \*apxaa tute.

2.3.1.2. When the dual and trial prefixes leave a sequence of two es, as in me + eveng > meeveng (note lenition), the two vowels contract to just one, meveng. Wiki (20/1/2010)

2.3.1.3. When the prenoun prefixes end in the same vowel the following word starts with, they reduce to one, as in tsatan < tsa- + atan, filva < fi- + ilva (§3.3.6).<sup>1</sup> Wiki (18/5/2011)

**2.3.1.4.** Contraction does not occur for indefinite **-o** or enclitic adpositions. When two identical vowels occur next to each other, they are written with a hyphen between them, **fya'o-o** *some way,* **zekwä-äo** *under a finger.*<sup>2</sup>

2.3.1.5. In Reef Na'vi vowel contraction is not applied. Forms such as **meeveng** or **apxaa** remain, where Forest Na'vi would simplify the doubled vowels. NT (13/1/2023)

2.3.2. Pseudovowel Contraction. Due to the shape of the aspect infixes,  $\langle er \rangle$  and  $\langle ol \rangle$ , it is possible for the pseudovowels to occur immediately after their consonantal counterpart, as in \*p $\langle ol \rangle$ lltxe. When this happens in an unstressed syllable, the pseudovowel disappears, poltxe. In a stressed syllable, the infix disappears, \*f $\langle er \rangle$ rrfen > frrfen. Pseudovowels in monosyllables behave as though unaccented, vol from \*v $\langle ol \rangle$ ll, and ner from \*n $\langle er \rangle$ rr. Wiki (23/3/2010) NT (19/6/2012)

**2.3.3.** Affect Infix Epenthesis. When the positive affect infix *<***e**i*>* is followed by the vowel **i**, **ì** or a pseudovowel, a **y** is inserted, **seiyi** *<* \***s***<***e**i*>***i**, **veykrreiyìn** *<* \***veykrr***<***e**i*>***ì**n; **v***<***e**i*>***yll** *<* \***veil**. NT (19/6/2012)

2.3.3.1. The dissimilation of seii into seiyi does not occur in Reef Na'vi. NT (31/1/2023)

**2.3.4.** Reef Na'vi Voiced Stop Assimilation. In Reef Na'vi, when a word has a cluster of ejectives, such as in atxkxe *land*, regressive voicing assimilation takes place. That is, the onset voiced stop (\*atxge) causes the voicing of the previous coda ejective as well, giving, adge. Similarly, ekxtxu *rough* is egdu in Reef Na'vi. Wiki (8/1/2023)

**2.3.5.** Nasal Assimilation. In many compounds as well as in some idioms, final nasals assimilate to the position of the following word, as in **lumpe** as a variant of **pelun**. Such assimilation is not always written, which may make the etymology of a word clearer, as in **zenke** instead of **\*zengke**, from **zene ke**, or in the several idioms with the verb **ting** *give*, **ting mikyun** being pronounced **tim mikyun**.

**2.3.6.** Vowel Harmony. Na'vi has two instances of optional regressive vowel harmony in verb infixes.

<sup>&</sup>lt;sup>1</sup>The glottal stop is a consonant, so fi'iheyu from fi - + 'iheyu.

<sup>&</sup>lt;sup>2</sup>Though Forest Na'vi does not technically have long vowels, the effect of long vowels occurs in this situation. Take care to pronounce both **ä** in a word such as **zekwä-äo**.

**2.3.6.1.** The subjunctive future infix, **(iyev)**, most frequently appears as **(iyev)**, with backing of the first vowel.

**2.3.6.2**. The vowel of the negative attitude infix, <**äng**>, may be raised if it is immedately followed by the vowel **i**, becoming <**eng**>,

(3) Tsap'alute sengi oe. tsap'alute s<äng>i oe apology do<NEG.AFF> 1SG *I apologize*.

Ultxa (2/10/2010)

**2.3.7.** Elision. In rapid speech final -e is frequently elided when the following word starts in a vowel. Kiyevame ulte Eywa ngahu. This is not indicated in writing. When the final -e is in a  $\mathcal{F}$  monosyllable (ke, sre), or when it is stressed (tuté), it is not elided. Forum (25/10/2022)

2.3.7.1. The vowel **ì** in **mì**, **sì** and the adverb prefix **nì**- drops before the plural prefix **ay**+, though there is no change in writing. So, **nìayfo** *like them* is pronounced as **nayfo**. NT (1/7/2010)

2.3.7.2. The vowel in **n**ì- will usually elide before a stressed **e**, as in **n**ì- + **etrìp** > **netrìp**. If the **e** is unstressed, it will usually, though not always, elide, **n**ì- + **eyawr** > **n**ì**yawr**. One exception: **n**ì**ean** instead of the expected \***nean**. Forum (9/8/2017)

## 2.3.8. Other Phonetic Processes.

2.3.8.1. In colloquial speech names containing the sequence o'a may eliminate the glottal stop, such as Mo'at ~ Moat and Lo'ak ~Loak. NT (1/3/2017)

#### 2.4. Orthographic Conventions

Na'vi in general follows the spelling, punctuation and capitalization habits of English, but there are a few differences.

**2.4.1. Proper Names.** When taking lexical prefixes (§5.1), proper names retain their original capitalization, as in **li'fya leNa'vi**.

**2.4.2.** Quotation. Direct quotes are not punctuated with quotation marks in Na'vi. Instead it relies on the quotation particles san...sìk (see §6.21).

**2.4.3. Etymological Spelling.** In addition to the occasional spelling of nasals to reflect etymology (§2.3.5), there are a few grammatical processes which result in spelling that reflects the grammar more than the pronunciation.

2.4.3.1. The first person pronoun root **oe**, though pronounced **we** when taking a suffix, retains the original spelling (§3.2.1.1).

2.4.3.2. Before words starting with y the plural prefix ay+ is unchanged, ayyerik. Wiki (18/4/2010)

**2.4.4. Attributive Phrase Hyphenation**. Certain short attributive phrases are written with hyphens joining the elements.

2.4.4.1. Attributive phrases of color using na *like* are hyphenated, fisyulang aean-na-ta'leng *this skin-blue flower* (§6.18.3.1).

2.4.4.2. Participles of si construction verbs are also hyphenated, srung-susia tute *a helping person* (§6.9.1.2).

# 3. Morphology

## 3.1. The Noun

**3.1.1.** Cases. The Na'vi case endings change depending on whether the word ends in a consonant, a vowel or a diphthong.<sup>1</sup>

	Vowel	Consonant & Pseudovowel	Diphthong
Subjective	_	—	_
Agentive	-l	-ìl	-ìl
Patientive	-t, -ti	-it, -ti	-ti, -it, -ay-t, -ey-t
Dative	-r, -ru	-ur, -'-ru	-ru, -ur, -aw-r, -ew-r
Genitive	-yä, -o-ä, -u-ä	-ä	-ä
Topical	-ri	-ìri	-ri

Wiki (24/3/2010)

3.1.1.1. Note that words ending in the pseudo-vowels ll and **rr** take the consonant endings: **trr-ä**, **'ewll-it**.

3.1.1.2. After the vowels o and u the genitive is just -ä, but after all other vowels it is -yä. So, tsulfätuä from tsulfätu, but Na'viyä from Na'vi and lì'fyayä from lì'fya.

3.1.1.3. Nouns in -ia have the genitive in -iä, as in soaiä from soaia. NT (25/5/2011)

3.1.1.4. In addition to several pronouns (§3.2.1.6), there are a few nouns with irregular genitives: Omatikayaä (from Omatikaya). These are marked in the dictionary. Forum (19/3/2010)

3.1.1.5. Due to the similarity in sound between y and i, the patientive ending -it is simplified when suffixed to a diphthong ending in y, as in keyeyt *errors* instead of \*keyeyit. And due to similarity in sound between w and and u, the same simplification can happen to the dative -ur, as in 'etnawr to/for a shoulder, as well as 'etnawur. NT ( $\frac{1}{25}/2013$ )

3.1.1.6. A noun ending in the glottal stop may also take the dative in -**ru**, such as li'fyaolo<u>`</u>ru.  $\mathcal{F}$  Otherwise nouns ending in consonants take -**ur**. NT (6/10/2012) Forum (25/12/2020)

<sup>&</sup>lt;sup>1</sup>The case names Frommer uses reflect the terminology used by Bernard Comrie in his writings on ergative languages. In most linguistic writing Frommer's "subjective" is called the intransitive, the "agentive" is the ergative and the "patientive" the accusative.

**3.1.1.7.** The variation between the long and short endings in the patientive and dative appears to be largely a matter of style and euphony.

3.1.1.7.1. The Reef Na'vi dialect prefers the patientive form -ti to -it and -t. OmatiCon (15/1/2023)

**3.1.2.** Foreign Nouns. When human words are borrowed into Na'vi some words need to be adapted to the phonology of the Na'vi language, such as **Kerismisi** *Christmas*. Among the other changes, the final -i is required because Na'vi words cannot end in s. Because some of the case endings have vowels that will resolve otherwise illegal clusters, the final -i of such borrowings will be elided, such as with the genitive, **Kerismisä**. Using the German city of Cologne as an example (Köln in German):

Subjective	Kelnì	
Agentive	Kelnìl	Keln-ìl, not Kelnì-l
Patientive	Kelnit	
Dative	Kelnur	
Genitive	Kelnä	
Topical	Kelnìri	Keln-ìri, not Kelnì-ri

Note that for the patientive and dative, only the forms that start with a vowel—-it and -ur—are permitted. A form like **\*Kelnti** is not a permitted Na'vi word shape. NT (8/1/2022)

**3.1.3.** Indefinite -o. A noun may take the indefinite suffix -o, "one, some." Case endings follow the -o, such as **puk-o-t**. Wiki (14/3/2010) NT (5/9/2011)

**3.1.4.** Number. Na'vi nouns and pronouns may be singular, dual, trial or plural (four or more). Number is indicated by prefixes, all of which cause lenition.

Dualme+mefo (< me+ + po)</th>Trialpxe+pxehilvan (< pxe+ + kilvan)</td>Pluralay+ayswizaw

**3.1.4.1.** The plural prefix *only* may be dropped if there is lenition. The plural of **prrnen** is either **ayfrrnen** or the short plural **frrnen** (but see §6.5.2.2).<sup>2</sup> The dual and trial prefix are never dropped this way. LangLog (9/12/2009)

3.1.4.2. In the dual and trial, if a word begins with **e** or **'e**, the resulting **\*ee** is simplified, so **me+** + **'eveng** is **meveng**. See also §2.3.1.2.

3.1.4.3. In Reef Na'vi pxe- will be pronounced as though be-. NT (13/1/2023)

## 3.2. The Pronoun

**3.2.1.** The Basic Pronouns. The pronouns take the same case endings and number marking prefixes as nouns.

<sup>&</sup>lt;sup>2</sup>Exception: '**u** *thing* does not take the short plural, always occuring as **ayu**.

Person	Singular	Dual	Trial	Plural
1st exclusive	oe	moe	pxoe	ayoe
1st inclusive	_	oeng	pxoeng	ayo <u>e</u> ng, aw <u>nga</u>
2nd	nga	menga	pxe <u>nga</u>	ay <u>nga</u>
3rd animate	ро	mefo	pxe <u>fo</u>	ay <u>fo</u> , fo
3rd inanimate	<u>tsa</u> 'u, tsaw	me <u>sa</u> 'u	pxe <u>sa</u> 'u	ay <u>sa</u> 'u, sa'u
reflexive	sno	_	_	_
indeterminate	fko	_	_	_

3.2.1.1. In everyday speech, when the first person root **oe** does not occur at the end of the word, its pronunciation changes to **we**, as in **oel** pronounced **wel**, **oeru** as **weru**. However, this pronunciation does not happen to the dual and trial forms, **moe** and **pxoe**, which would result in illegal consonant clusters at the start of a word, such as **\*mwel**. This pronunciation is indicated with the accenting underline on the **e**.

If **oe** occurs after a word ending in **-u**, then **oe** is pronounced like **we**, with, for example, **'efu oe** pronounced like **'efu we**. NT (30/4/2021)

**3.2.1.2.** The non-singular first person pronouns are either exclusive (excluding the person addressed) or inclusive (including the person addressed). The inclusive ending, **-ng**, is from **nga**, which reappears in full when a case ending is added. The agentive of **oeng** is **oengal**, not **\*oengil**.

3.2.1.3. Ayoeng has the short form awnga. Both may be used freely with any case ending, though awnga is more common.

**3.2.1.4.** There are separate third person pronouns for animate and inanimate objects. Animals may be referred to with the animate pronoun **po**, but bugs are not. The more important the speaker's relationship to the animal, the more likely a form of **po** is used. Forum (25/2/2017)

3.2.1.5. The third person animate **po** does not distinguish gender — it will do for "he" or "she" in English. However, gendered forms do exist, **poan** *he* and **poe** *she*, which are declined regularly, though they do not have plural forms. See §6.3.1 for their use. NT (17/10/2017)

3.2.1.6. Several pronouns have irregular genitives with a vowel change,

Subjective	Genitive
fko	fkeyä
nga	ngeyä
ро	peyä
sno	sneyä
tsa'u	tseyä
ayla	ayleyä

This vowel change occurs in all numbers,  $fey\ddot{a} < fo$ , and in the first person inclusives,  $awngey\ddot{a} < awnga$ .

Pronouns derived from **po** ('**awpo** *one individual*, **frapo** *everyone*, **lapo** *another one*, **fipo** *this one*, **tsapo** *that one*) also take the vowel change, so it is **frapeyä**, not \***frapoä**. Forum (6/7/2023)

**3.2.1.7.** In informal and clipped military speech the final **ä** may drop from the genitive of pronouns, **ngey 'upxaret**.

3.2.1.8. The third person inanimate, **tsa'u**, is simply the demonstrative pronoun "that," and has the genitive in **tseyä**. In informal, rapid speech it may take the form **tsaw**, which may be used with postpositions (**tsawfa**), but may not take case marking (there is no **\*tsawl**). However, the stem **tsa-** may be used with the case endings (**tsal**, **tsar**, etc.), or with a postposition (**tsafa**), again in rapid speech. Wiki (6/5/2010) NT (3/8/2011)

3.2.1.9. The reflexive pronoun **sno** is not altered for number.

3.2.1.10. The third person animate indefinite pronoun is fko (gen. fkeyä). Wiki (17/5/2013)

#### 3.2.2. Ceremonial/Honorific Pronouns.

	Singular	Dual	Trial	Plural
1st exclusive	ohe	mohe	pxohe	ayohe
1st inclusive	-	oheng	<u>pxo</u> heng	a <u>yo</u> heng
2nd	nge <u>nga</u>	menge <u>nga</u>	pxenge <u>nga</u>	aynge <u>nga</u>
3rd animate	poho			
3rd fem.	po <u>he</u>			
3rd masc.	po <u>han</u>			

The genitive of a form like **poho** is uncertain. NT (28/2/2022)

**3.2.2.1.** For the inclusive first person forms, the **oheng** forms are standard. However, using separate pronouns, **ohe ngengasì** with enclitic **sì** *and*, is also available. Forum (25/10/2022)

3.2.3. Lahe. When used as a pronoun, lahe other has plural short forms:

	Full	Short
Subjective	ay <u>la</u> he	ay <u>la</u>
Agentive	aylahel	aylal
Patientive	ay <mark>la</mark> het(i)	aylat(i)
Dative	aylaher(u)	ay <u>la</u> r(u)
Genitive	ay <u>la</u> heyä	ay <u>le</u> yä
Topical	aylaheri	aylari

Note that the short form (**ayla**) genitive has the irregular genitive vowel change seen in other pronouns (§3.2.1.6). NT (5/5/2023)

#### 3.3. Prenouns

The prenouns are adjective-like noun prefixes.

3.3.1. Fì-. This prenoun is for proximal deixis, this. When it is followed by the plural prefix ay+ they generally contract into fay+, these in casual speech. However, in precise or formal speech, fiay+ may be used, oel foru fiayli'ut toling a krr, kxawm oe harmahängaw. Forum (27/7/2013)

 $\mathcal{F}$ 

3.3.1.1. Some nouns and adjectives pair with fi- to form adverbs, such as fitrr today and fitxan so (much).

**3.3.2.** Tsa-. This is distal deixis, *that.* When it is followed by the plural prefix ay+ they contract into **tsay+** *those*.

3.3.3. -Pe+. This question prenoun means what, which as in peli'u which word? It is unusual in that it may be either a prefix (peli'u) or a suffix (li'upe). When prefixed, the following word takes lenition. When the prefix is followed by the plural prefix **ay**+ they contract into **pay**+.

3.3.4. Fra-. This prenoun means all, every. When it is followed by the plural prefix ay+ they contract into fray+. Forum (27/7/2013)

3.3.5. Fne-. This prefix means type (of), sort (of).

3.3.5.1. The prefix is related to the noun **fnel**, also meaning *type*, *sort*. It can occur with a noun in the genitive to get the same meaning as the prefix. Tsafnel syulangä and tsafnesyulang both mean that kind of flower.

3.3.6. Contraction. When a prenoun ends with the same vowel the following word starts with, the vowels contract, as in tsatan that light from tsa-atan (§2.3.1.3).

3.3.7. Combinations. The prenouns may combine on a single word, in this order -

fìnumber marking **fne-** the noun **-pe** tsa- frape+

Only one from each column may be used, and of course the question affix is only used once. The full details of this ordering are not yet confirmed for fra-.

3.3.7.1. Short plurals (§3.1.4.1) are not used with the deictic prenouns; tsaytele those matters, never \*tsatele (singular txele).

## 3.4. Correlatives

Demonstrative pronouns and certain common adverbs of time, manner and place, are simply nouns paired with prenouns. However, the system is not perfectly regular.

	Person	Thing	Action	Time	Place	Manner
this	fipo	fì <u>'u</u>	fikem	set	fì <u>tseng</u> (e)	fì <u>fya</u>
uns	this one	this (thing)	this (action)	now	here	thus
that	<u>tsa</u> tu	<u>tsa</u> 'u	tsakem <sup>3</sup>	tsa <u>krr</u>	tsatseng <sup>3</sup>	<u>tsa</u> fya
tilat	that one	that (thing)	that (action)	then	there	in that way
all	frapo	<u>fra</u> 'u	—	<u>fra</u> krr	<u>fra</u> tseng	<u>fra</u> fya
all	everyone	everything		always	everywhere	in every way
no	<u>kaw</u> tu	<u>ke</u> 'u	<u>ke</u> kem	<u>kaw</u> krr	<u>kaw</u> tseng	—
no	no one	nothing	no action	never	nowhere	

Wiki (18/5/2011) NT (24/7/2011)

**3.4.0.1**. Plurals for these are a bit funky. Though **tsa'u** is from **tsa-** and **'u**, the plural is **(ay)sa'u**. Confirmed, but details might be nice. How to work in **tsapo**?

3.4.0.2. For the forms of tsa'u, see §3.2.1.8.

**3.4.1.** Questions. As with nouns, the question affix -pe+ may be either a leniting prefix or a suffix.

who?	pe <u>su</u> , <u>tu</u> pe	where?	pe <u>seng</u> , <u>tsengpe</u>
what (thing)?	pe <u>u</u> , <u>'u</u> pe	how?	pe <u>fya</u> , <u>fya</u> pe
what (action)?	pe <u>hem</u> kempe	why?	pe <u>lun</u> , lumpe
when?	pe <u>hrr</u> , <u>krr</u> pe	what kind (of)?	pe <u>fnel</u> , <u>fne</u> pe

**3.4.1.1.** The question word for people, **tupe** / **pesu** *who*, has a enormous collection of gendered and non-singular forms:

	Common	Male	Female
Singular	pe <u>su</u> , <u>tu</u> pe	pe <u>stan</u> , tu <u>tam</u> pe	peste, tutepe
Dual	pem <u>su</u> , me <u>su</u> pe	pem <u>stan</u> , me <u>stam</u> pe	pem <u>ste</u> , me <u>ste</u> pe
Trial	pep <u>su</u> , pxe <u>su</u> pe	pep <u>stan</u> , pxe <u>stam</u> pe	pep <u>ste</u> , pxe <u>ste</u> pe
Plural	pay <u>su</u> , (ay) <u>su</u> pe	pay <u>stan</u> , (ay) <u>stam</u> pe	pay <u>ste</u> , (ay) <u>ste</u> pe

The genitives of these are noun-like, with **pesuä**, rather than the vowel shift seen in forms like **po** vs. **peyä**.

The non-singular forms of **pehem** / **kempe** follow a similar pattern:

Singular	pe <u>hem,</u> kempe
Dual	pem <u>hem</u> , mehempe
Trial	pep <u>hem</u> , pxe <u>hem</u> pe
Plural	pay <u>hem</u> , (ay) <u>hem</u> pe

NT (30/7/2011) Forum (19/12/2021)

<sup>&</sup>lt;sup>3</sup>May be accented on either syllable.

**3.4.2.** Fi'u and Tsa'u in Clause Nominalization. The demonstrative pronoun fi'u and the inanimate pronoun tsa'u are used with the attributive particle a to nominalize clauses (§6.18.5). When the attributive particle follows certain case forms of the pronoun, they contract:

Case	Fì'u Contraction	Tsaw Contraction
Subjective	fwa (< fi'u a)	tsawa
Agentive	<u>fu</u> la (< fi'ul a)	<u>tsa</u> la
Patientive	<u>fu</u> ta (< fi'ut a)	tsata
Dative	<u>fu</u> ra (< fi'ur a)	tsara
Topical	furia (< fi'uri a)	tsaria

Wiki (18/6/2010) Forum (21/4/2020)

In rapid speech **futa** may be pronounced as though **fta**, and **tsata** may be pronounced as **tsta**. Forum (25/2/2022)

**3.4.3.** Other Nouns in Clause Nominalization. While fi'u and tsaw may nominalize clauses of most types, verbs of hearing, speaking and questioning prefer the nouns fmawn *news*, ti'eyng *answer* and fayli'u *these words*; and verbs of command will prefer tson *duty*, *obligation*. There are fewer contractions:

Case	Contraction
Subjective	teynga (< tì'eyng a)
Agentive	teyngla (< tì'eyngìl a)
Patientive	teyngta (< tì'eyngit a)

There are contractions only in the patientive for **fmawn** and **fayli'u**, which are **fmawnta** (< **fmawnit a**) and **fayluta** (< **fayli'ut a**), as well as **tsonta** (< **tsonit a**). See §6.21.4 for the syntax. NT (31/8/2011) NT (2/10/2014)

#### 3.5. The Adjective

**3.5.1.** Attribution. Attributive adjectives are joined to their noun with the affix -a-, which is attached to the adjective on the side closest to the noun, as in yerik awin or wina yerik for "a fast yerik."

**3.5.1.1.** A derived adjective in **le**- usually drops the prefixed (but not suffixed) **a**-, so either **ayftxozä lefpom** or, more rarely, **ayftxozä alefpom** may appear. However, when the **le**-adjective comes before the noun, it will always have the attributive **-a**- suffixed, **lefpoma ayftxozä**.

ayftxozä lefpom	usual
ayftxozä alefpom	permitted
*lefpom ayftxozä	an error
lefpoma ayftxozä	correct

## 3.6. The Verb

**3.6.1.** Infix Location. Frommer describes three positions for verb infixes: pre-first position, first position and second position. Each position has infixes of a particular type (described below).

3.6.1.1. All infixes occur in the last (ultima) and next-to-last (penult) syllables of the verb stem, and are inserted before the vowel, diphthong or pseudovowel of that syllable, as in  $k\ddot{a} > k\langle im \rangle \ddot{a}$  and taron > t
 t
 ar
 br
 ar
 br
 br

**3.6.1.2.** If a syllable has no onset consonant(s) the infix still precedes the vowel, as in **omum** > **<iv>omum** and **ftia** > **fti<ats>a**.

3.6.1.3. The stress accent stays on the vowel that originally had it before any infixes were added, hawnu > h < ilv > awnu.<sup>4</sup>

3.6.1.4. Usually, infixes are placed only in one element of a compound verb. For example, **yom**-ting *feed* is a compound of **yom** *eat* and ting *give*. The perfective of this is not \*yomting, but yomting. Most compound verbs will have the verb element last, which will take the infixes. A few compounds, however, do add infixes to the first element. These must be learned from the lexicon.

3.6.1.5. A small number of verb+verb compounds take infixes in both elements of the compound, such as kan'in *specialize in*, made up of kan *aim, intend* and 'in *be busy*. Ultxa (2/10/2010)

**3.6.2. Pre-first Position**. These infixes change transitivity. They are inserted before the vowel of the next-to-last syllable of a verb, or the verb syllable if the verb has only one syllable.

Causative <**eyk**> Reflexive <**äp**>

Wiki (1/2/2010) Wiki (15/2/2010)

**3.6.2.1.** In casual conversation the reflexive perfective of **si**-construction verbs, **säpoli**, is often pronounced **spoli**, and **säpivi** is usually pronounced **spivi**. NT (30/9/2010) NT (3/8/2011)

**3.6.2.2.** The causative reflexive, "cause oneself to," is formed with **<äp><eyk>**, so **po täpeykerkup** *he causes himself to die*. The transitivity of the original expression determines the case use with verbs that have **<äp><eyk>**. See §6.1.1.3 for usage.

**3.6.3.** First Position. These mark tense, aspect and mood, and create participles. They are inserted before the vowel of the next-to-last syllable of a verb, or the verb syllable if the verb has only one syllable. They will always follow any pre-first position infixes.

<sup>&</sup>lt;sup>4</sup>Exception: the verb **omum** shifts the accent to the **o** for any inflected or derived forms, **ivomum**, **niawnonum**. The verb **inan** follows the same pattern, **olinan**.

	Tense only	Perfective	Imperfective
Future	<ay>, <asy></asy></ay>	<aly></aly>	<ary></ary>
Near future	<ìy>, <ìsy>	<ìly>	<ìry>
General	_	< <b>ol</b> >	<er></er>
Near past	<ìm>	<ìlm>	<ìrm>
Past	<am></am>	<alm></alm>	<arm></arm>

LangLog (9/12/2009) Wiki (27/1/2010) Wiki (19/2/2010)

3.6.3.1. The futures with s, <asy> and <isy>, mark intention (§6.7.9).

**3.6.3.2.** The subjunctive infix, **(iv)**, has a restricted set of combinations with fewer tense gradations.

	Tense only	Perfective	Imperfective
Future	<iyev>, <iyev></iyev></iyev>	—	_
General	<iv></iv>	<ilv></ilv>	<irv></irv>
Past	<imv></imv>	_	_

Wiki (9/1/2010) Wiki (30/1/2010) Wiki (30/1/2010)

**3.6.3.3.** There are only two participle infixes. They do not combine with tense, aspect or mood infixes.

Active	<us></us>
Passive	<awn></awn>

Since the participles are adjectives that cannot be used as predicates, they will always occur with the attributive adjective affix -a- ( $\S3.5.1$ ,  $\S6.9.1$ ). Wiki (13/3/2011)

**3.6.4.** Second Position. These infixes, which indicate speaker affect or judgement, occur in the final syllable of the verb, or after the first position infixes in a verb of one syllable.

Positive attitude	<ei>, <eiy> (§2.3.3)</eiy></ei>
Negative attitude	<äng>, <eng> (§2.3.6.2)</eng>
Formal, ceremonial	<uv></uv>
Inferential, suppositional	<ats></ats>

#### Wiki (19/2/2010)

**3.6.5.** Examples. The rules given above are a bit abstract, so I give here examples of some possible inflections for a few verb shapes. The verbs are **eyk** *lead* as an example of a single-syllable word with no onset consonant, **fpak** *stop* as a single-syllable with consonant cluster onset, **taron** *hunt* the usual two-syllable word Frommer uses in examples, and **yom·ting** *feed*, a compound verb, in which only the final element is inflected.

	eyk	fpak	<u>ta</u> ron	<u>yom</u> ∙tìng
Near past	ìmeyk	fpìmak	tì <u>ma</u> ron	yomtìmìng
Reflexive	äpeyk	fpä <u>pak</u>	tä <u>pa</u> ron	<u>yom</u> täpìng
Refl., near past	äpì <u>meyk</u>	fpäpì <u>mak</u>	täpì <u>ma</u> ron	<u>yom</u> täpìmìng
Ceremonial	u <u>yeyk</u>	fpu <u>yak</u>	<u>ta</u> ruyon	<u>yom</u> tuyìng
Perf., cerem.	olu <u>yeyk</u>	fpolu <u>yak</u>	to <u>la</u> ruyon	<u>yom</u> toluyìng
Refl., perf., cerem.	äpolu <u>yeyk</u>	fpäpolu <u>yak</u>	täpo <u>la</u> ruyon	<u>yom</u> täpoluyìng

The meanings of some of these examples stretch good sense to the breaking point. The purpose is only to show infix locations across a consistent set of verb shapes.

## 4. Numbers

The Na'vi language has an *octal*, or base eight, number system, like a very small number of Human languages.<sup>1</sup> Rather than calculating numbers in the form  $(m \times 10) + n$  (as in  $(4 \times 10) + 2 = 42_{10}$ , forty-two), the numbers are calculated from  $(m \times 8) + n$  (as in  $(5 \times 8) + 2 = 52_8$ , mrrvomun,  $42_{10}$ ).

## 4.1. Cardinal Numerals

4.1.1. The "Ones". The independent forms of the numerals from one to eight are:

1	'aw	5	mrr
2	mune	6	<u>pu</u> kap
3	pxey	7	<u>ki</u> nä
4	tsìng	8	vol

## 4.1.2. Powers of Eight. Rather than "tens," Na'vi has "eights:"

8~(1 imes 8)	vol	40~(5  imes 8)	mrrvol
$16(2 \times 8)$	<u>me</u> vol	48~(6 imes 8)	<u>pu</u> vol
$24 (3 \times 8)$	pxevol	56 (7 $ imes$ 8)	<u>ki</u> vol
$32 (4 \times 8)$	<u>tsì</u> vol	64~(8 imes 8)	zam

The higher powers of eight are vozam (512, octal 1000) and zazam (4096, octal 10000).

**4.1.3. Dependent Forms**. When combined with powers of eight words, the basic number words take abbreviated, single-syllable forms, with lenition where possible:

1	(l)-aw	5	-mrr
2	-mun	-	
3	-pey	6	-fu
		7	-hin
4	-sìng		

<sup>1</sup>Apparently a result of counting not the fingers but the spaces between them.

4.1.3.1. All of the dependent forms except "one", (l)-aw, evict the final -l of the "eights" forms. Similarly, the final -m in the zam, vozam, and zazam forms is dropped before all of the forms except "one," zamaw, but zamun, zapey, etc.

4.1.3.2. The attached dependent forms take the word accent. Combined with vol *eight*:

$9(1 \times 8 + 1)$	volaw	$13(1 \times 8 + 5)$	vomrr
$10(1 \times 8 + 2)$	vomun	$14(1 \times 8 + 6)$	vofu
$11(1 \times 8 + 3)$	vopey	$15(1 \times 8 + 7)$	vohin
$12(1 \times 8 + 4)$	vosìng	$16(2 \times 8 + 0)$	<u>me</u> vol

The pattern will continue this way with mevol: mevolaw, mevomun, mevopey, etc.

After zam the count goes: zam, zamaw, zamun, zapey, zasing, zamrr, zafu, zahin, zavol, and then continuing as zavolaw, etc. For example, octal 211 is mezavolaw. NT (1/4/2014) Forum (27/1/2021)

#### 4.2. Ordinal Numbers

**4.2.1.** Suffix -ve. The ordinal numbers are formed by means of the suffix -ve, which does not alter the word accent, though it does cause changes to a few number stems.

Ordinal	Independent	Dependent			
first	<u>'awve</u>	(l)- <u>aw</u> ve			
second	muve	- <u>mu</u> ve	eighth	volve	-volve
third	<u>pxey</u> ve	- <u>pey</u> ve	64th	zave	-zave
fourth	tsìve	- <u>sì</u> ve	512th	vozave	-vozave
fifth	mrrve	- <u>mrr</u> ve	4096th	zazave	-zazave
sixth	puve	- <u>fu</u> ve	4070111		- <i>L</i> a <u>La</u> VC
seventh	<u>ki</u> ve	- <u>hi</u> ve			

4.2.1.1. Ordinal numbers are treated as adjectives, and take -a- when used attributively (§3.5.1), as in mrrvea ikran *fifth banshee*. Forum (27/1/2021)

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**4.2.1.2.** All ordinals can combine freely with **nì**- to form adverbs, **nì'awve** *first*, **nìmuve** *second*, etc. Wiki (5/6/2013)

## 4.3. Fractions

**4.3.1. -Pxì.** Except for *half* and *third*, which have separate lexical forms, fractions are formed by replacing the **-ve** of an ordinal with **-pxì**. Note the accent shift:

half	mawl	sixth	pupxì
third	pan	seventh	<u>kipxì</u>
fourth	tsìpxì	eighth	vopxì
fifth	mrrpxì		

**4.3.1.1.** Note that unlike the cardinals and ordinals, the fraction words are nouns, not adjectives (see §6.4.5.2 for syntax).

**4.3.2.** Numerator. To make higher fractions, combine an attributive cardinal with a fraction noun, **munea mrrpx**ì *two fifths*.

4.3.2.1. The fraction *two thirds* has a special form, **mefan**, the dual of **pan**.

## 4.4. Other Forms

4.4.1. Alo. The word <u>alo</u> time, turn combines with numbers to form instance adverbs. Four of these form compounds, <u>awlo</u> once, <u>melo</u> twice, <u>pxelo</u> thrice, three times and <u>fralo</u> each time, every time. All others combine as normal attributive adjectives, <u>alo</u> <u>amrr</u> poan polawm he asked five  $\mathcal{F}$  times.

4.4.2. -lie. The word 'awlie refers to a single event in the past.

**4.4.3.** Alien Digits. When quoting English digits, Na'vi will use 'eyt for *eight* and nayn for *nine*. These are not used for counting, but for things like phone numbers.

**4.4.3.1. Kew** is *zero*. Current documentation doesn't make clear if this idea is native or imported from the Humans.

# 5. Word Building

## 5.1. Derivational Affixes

Na'vi has a number of affixes used to create new vocabulary. Several simply change the word class, such as turning a noun into adjective. However, the meanings of the derived forms are not always entirely predictable. Only with the help of a dictionary can you be certain of a derived word's meaning (but see §6.6.8 for adverbs). These affixes should not be considered freely productive unless otherwise stated.

While there are strong patterns in how stress accent is altered by some derivational processes, there are no exceptionless rules for this. Again, only with the dictionary can you be certain of the accenting of a derived word.

**5.1.1. Prefixes.** These derivational prefixes rarely cause the accent to move from its original location, ngay *true* > tingay *truth*.

5.1.1.1. Le- creates adjectives from nouns, as in lehrrap dangerous from hrrap danger.

5.1.1.2. Nì- creates adverbs from nouns, pronouns, adjectives and verbs, as in nìNa'vi Na'vily, in Navi from Na'vi, nìayfo like them, nìftue easily from ftue easy, and nìtam enough from tam to suffice.

This prefix is productive with adjectives, pronouns, and ordinal numbers, but not other parts of speech. NT (11/7/2010) Wiki (5/6/2013) Wiki (27/7/2013) Forum (16/8/2016)

5.1.1.3. Sä- creates instrumental nouns from verbs and adjectives, as in sänume instruction, teaching from nume, and säspxin disease from spxin sick.

**5.1.1.4.** Sä- also creates nouns to indicate a particular, concrete instance of a general action. A sätsyìl *a climb* is a particular instance of the action of climbing, tsyìl. Roots may have derivations in both tì- and sä-, as in 'ipu *humorous*. Tì'ipu is the abstract concept of being humorous, that is, humor in general. Sä'ipu is a particular instance of being humorous — for example, a joke. NT (29/2/2012)

5.1.1.5. Tì- creates nouns from adjectives, verbs and occasionally other nouns, as in tingay *truth* from ngay *true*, tiftia *study* (*n*.) from ftia *to study*, ti'awm *camping* from 'awm *camp* (*n*.).

**5.1.1.6.** With these prefixes stem syllables may lose a vowel if the onset consonant is also a legal coda, **nimweypey** *patiently* < **mawey ·pey** *to be patient.* 

**5.1.2.** Negative Prefix. Some words, mostly but not exclusively adjectives, are created using the word ke *not* as a prefix.

5.1.2.1. When ke- comes before the adjective prefix le- the adjective prefix is reduced to just -l-, as in keltsun *impossible* compared to letsunslu *possible*, and kelfpomtokx *unhealthy* from lefpomtokx *healthy*.

5.1.2.2. When le- comes before ke- the negative prefix reduces to just -k-, as in lekye'ung *insane* from keye'ung *insanity*.

5.1.2.3. The ke- prefix may be used with root adjectives and participles, in which case the accent usually shifts to ke-, as in <u>keteng</u> *different* from teng *same*, *equal* and <u>kerusey</u> *dead* from rusey *living*. However, note keyawr *incorrect* from eyawr *correct*.

5.1.2.4. The ke- prefix may also create and combine with nouns, as in keye'ung *insanity*, and ketuwong *alien*. There are too few examples to determine accent behavior.

**5.1.3.** Adverbial "a-". Two stative verbs, lìm *be far* and sim *be near* have adverbial forms alim *far away* and asim *nearby, at close range.* These are thought of as fossilized abbreviations of forms like nìfya'o a lìm (§6.6.8). They are fixed lexical items, and do not have forms such as \*lìma and \*sima. Wiki (17/5/2010)

**5.1.4. Prefix with Infix**. There is a single derivation using the combination of a prefix and an infix.

5.1.4.1. Tì- **(us)** creates a gerund. It is fully productive for verb roots and compounds (si-construction verbs, §5.3.3, cannot be made into a gerund). This is most useful when a simple tìderivation already has an established meaning, as in rey *live*, tìrey *life*, but tìrusey *living*. In compounds, tì- comes at the beginning of the word and **(us)** goes into the verbal element of the compound, **yomtìng** becomes tìyomtusìng. See also §6.9.2. Forum (31/1/2013)

5.1.5. Agent Suffixes. These suffixes also do not cause an accent shift.

5.1.5.1. -tu creates agent nouns most often from parts of speech other than verbs, as in <u>pamtseotu</u> *musician* from <u>pamtseo</u> *music*, tsulfätu *master of a craft or skill, expert* from tsulfä *mastery*. When attached to verbs, the noun might refer to either the agent or the patient of a verbal action, such as <u>frrtu</u> *guest* from <u>frrfen</u> *visit* (agent) spe<u>etu</u> *captive* from spe<u>e</u> *capture* (patient). This suffix is not productive. NT (30/4/2021)

5.1.5.2. -yu creates agent nouns from verbs, to indicate a person who regularly performs some activity or role, as in **taronyu** *hunter* from **taron** *hunt*. This suffix is freely productive, with regular verbs as well as **si**-verbs, such as **stiwisiyu** *mischief-maker*, from **stiwi si** *do mischief*. NT (11/7/2010) Forum (30/10/2020)

**5.1.6.** Diminutive Suffix. The unstressed suffix -tsyìp may be used freely to form diminutives, on both nouns and pronouns. Personal names may lose syllables when taking this suffix, such as Kamtsyìp or Kamuntsyìp for *little Kamun*. The diminutive has three uses. NT (11/7/2010)

**5.1.6.1.** First, the diminutive form may be a primary lexical derivation. Such words will end up in the dictionary, such as **puktsyip** *booklet*, *pamphlet* from **puk** *book*. The diminutive force is weak enough that one may use the adjective **tsawl** *large* with a diminutive without contradiction, as in **tsawla utraltsyip** *a large bush*.

5.1.6.2. Second, the diminutive may express affection or endearment, za'u fitseng, ma 'itetsyip  $\mathcal{F}$  come here, little daughter. This use should not be taken to imply an age. The daughter in the previous sentence could be an adult.

5.1.6.3. Third, the diminutive may express disparagement or insult, **fitaronyutsyip ke tsun ke'ut**  $\mathcal{F}$  **stivä'ni** *this* (*worthless*) *little hunter can't catch anything*. The disparaging tone may be directed at oneself, **nga niawnomum to <u>oetsyip</u> lu txur nitxan** *as everyone knows, you're a lot stronger than*  $\mathcal{F}$  *little old me*. Only context will distinguish the disparaging from affectionate use of the diminutive.

5.1.7. -Nay Suffix. This creates a new noun which indicates something lower on some hierarchy, size, rank, accomplishment, etc. The suffix receives the accent, karyunay *apprentice teacher* from karyu *teacher*. If the noun already ends in -n the suffix loses the -n-, 'eylanay acquaintance from 'eylan *friend*, ikranay *forest banshee* from ikran *banshee*. It isn't productive. NT (2/28/2013)

**5.1.8.** Gender Suffixes. The gender suffixes are unusual in that they are used not only with nouns but also the third person pronoun (§3.2.1.5).

5.1.8.1. The suffix -an indicates males, as in poan he and 'itan son.

5.1.8.2. The suffix -e indicates females, as in poe she and 'ite daughter.

5.1.8.3. The effect of these suffixes on the accent is unpredictable, tutan male (person) from tute person, but muntxatan husband from muntxatu spouse, mate.

## 5.2. Reduplication

Reduplication is a nonproductive derivational process. Nonetheless, a few common words do use it.

**5.2.1. Iteration**. With words of time, reduplication indicates repetition or habitual occurrence, **letrrtrr** *ordinary*, that is, occurring daily; and **krro** *krro sometimes*.

**5.2.2.** Shift in Degree. With the verbs 'ul *increase* and nän *decrease*, reduplicated adverbs mark change to an extreme degree, ni'ul'ul *increasingly, more and more,* ninänän<sup>1</sup> *less and less.* NT (29/2/2012)

<sup>&</sup>lt;sup>1</sup>The reduplication is partial, since consonants cannot be doubled.

## 5.3. Compounds

**5.3.1. Headedness.** The dominant element of a Na'vi compound may come first or last in the compound.<sup>2</sup> There is, however, a strong tendency for head-final compounds. Verb compounds are the most likely to be head-initial.

5.3.1.1. Compounds are in the same word class as their head, so txampay *sea* is noun, because pay *water* is a noun.

5.3.1.2. Like root words, compounds may change word class with the addition of the derivational affixes listed above, **lefpomtokx** *healthy* from **fpomtokx** *health*.

**5.3.2.** Apocope. Words may lose parts when used in a compound, as in <u>venzek</u> toe < <u>venu</u> foot + <u>zekwä</u> finger, and silpey hope < siltsan good + pey wait (for).

**5.3.3.** "Si" Construction. The usual way to convert a noun or adjective to a verb is to pair the uninflected noun with the prop verb si, which only ever occurs in these constructions. The order is fixed N si, with si getting all verb affixes.

5.3.3.1. In the verb irayo si to thank the order is less fixed. Wiki (12/5/2010)

5.3.3.2. The normal N si word order is also broken for negation, oe pamrel ke si *I don't write* (§6.16.1.1), txopu rä'ä si *don't be afraid* (§6.13.3).

## 5.4. Common and Noteworthy Compound Elements

5.4.1. -fkeyk. Derived from the noun tifkeytok *state*, *condition*, *situation*, this unaccented suffix produces some words with specialized, idiomatic meanings, such as <u>yafkeyk</u> *weather*. It is none-theless widely productive, kilvanfkeyk lu fyape fitrr? *how's the condition of the river today*? NT  $\mathcal{F}$  (1/4/2011)

5.4.2. Hì(')-. From the adjective hì'i *small*, the accented prefix hì- or hì'- is used in a few words to form diminutives, but should not be considered productive (see §5.1.6), as in <u>hì</u>'ang *insect* (< hì' + ioang *animal*), hìkrr *moment*, *a short time* (< hì + krr *time*).

**5.4.3**. -iva. When the noun ilva *flake*, *drop*, *chip* is used in compounds, the l drops, <u>txepiva</u> *ash*, *cinder*, <u>herwiva</u> *snowflake*. NT (1/4/2011)

**5.4.4.** -nga'. This suffix, derived from the verb nga' *contain*, creates adjectives from nouns and describes something "containing" the noun, as in <u>txumnga</u>' *poisonous*. It is much less common than le-. It is possible for a noun to have both le- and -nga' derivations, lepay *watery* vs. paynga' *damp*, *humid*. NT (5/5/2011)

<sup>&</sup>lt;sup>2</sup>Many human languages are more strict. English compounds, for example, generally have the dominant element, or "head," last, as in *blueberry*, *night-light*, *blackboard*. On the other hand, Vietnamese uses head-initial order for native compounds and head-final order for compounds using the substantial Chinese vocabulary it has borrowed.

5.4.5. -pin. Derived from the noun 'opin color, this unaccented suffix is attached to color adjectives to form color nouns, rimpin the color yellow from rim yellow. A final -n in the color adjective will become -m by assimilation, eampin from ean.

5.4.6. Pxi-. The adjective pxi sharp is prefixed to adverbs and adpositions of time to indicate immediacy. The prefix doesn't take the accent, **pxisre** immediately before, **pxiset** immediately, right now.

5.4.7. Sna-. A shortened form of the noun sna'o group, set, clump, stand, this prefix can be freely used with living things other than people to indicate a natural grouping, such as snatalioang a herd of sturmbeest, snautral a stand of trees. The prefix is used with non-living things to produce words, but this is not productive, snatxärem skeleton. NT (31/3/2012)

5.4.8. -tseng. In colloquial speech the noun tseng place can be suffixed to verbs to create spontaneous words to identify places where particular acts take place, such as yomtseng for a place to have a meal. These words are not likely to end up in the dictionary. Forum (5/7/2023)

In some "official" compounds with tseng the other parts of the compound may have various phonetic changes, such as **numtseng** school, in which the verb **nume** has been modified for the compound.

5.4.9. -tsim. The noun tsim source can be suffixed to nouns to indicate the source or cause of some state, such as **sngumtsim** worrisome matter, source of worry from **sngum** worry, **yayayrtsim** something confusing, source of confusion from yayayr confusion, ingventsim mystery, riddle, enigma, conundrum from ingyen feeling of mystery or noncomprehension. Note that it doesn't change the accent. This form is not productive. NT (25/1/2013)

5.4.10. Tsuk-. Derived from tsun fko, this unaccented prefix creates ability adjectives from transitive verbs, tsukyom edible (from yom eat). The negative simply takes the prefix ke-, which also causes no accent change here, ketsuktswa' unforgettable (from tswa' forget). NT (22/3/2011)

5.4.10.1. In addition, intransitive verbs may be combined with tsuk-, with a looser relationship between the noun and resulting adjective, fitseng lu tsuktsurokx one can rest here, this place is  $\mathcal{F}$ "restable," lu na'ring tsukhahaw one can sleep in the forest.

 $\mathcal{F}$ 

5.4.11. -tswo. This suffix may be freely used on any verb, and creates a noun meaning the ability to perform the action of the verb, wemtswo ability to fight, roltswo ability to sing. This suffix is related to the word tsu'o ability. NT (31/3/2012)

5.4.11.1. The suffix -tswo is attached to the noun or adjective element of si-verbs, as in srungtswo ability to help and tstutswo ability to close.

5.4.12. -vi. From the noun 'evi, itself a shortened form of 'eveng child, the unaccented suffix -vi is used rather loosely for the spawn of something bigger or a part of a larger whole, txepvi spark (< txep fire), li'fyavi expression, bit of language (< li'fya language). It may cause minor changes to the word it is attached to, sänumvi lesson from sänume instruction, teaching. Wiki (14/3/2010)

5.4.13. "Kä-" and "Za-". The two verbs of motion kä go and za'u come (reduced to just za-) are used in some compound verbs to indicate direction of motion, kämakto ride out. Note the

distinction between kä'ärip push and za'ärip pull from 'ärip move (something).

## 5.5. Time

Adverbs of time are derived from nouns in a predictable pattern.

**5.5.1.** The Current Time. The prenoun fi- (§3.3.1) creates an adverb for the current unit of time, fitrr *today* ("this day"), firewon *this morning*.

**5.5.2.** The Previous Time. The accented suffix -am creates an adverb for the previous unit of time, trram *yesterday*, pxiswawam *just a moment ago*.

**5.5.3.** The Next Time. The accented suffix -ay creates an adverb for the next unit of time, trray *tomorrow*, ha'ngiray *tomorrow afternoon*.

## 6. Syntax

## 6.1. Transitivity and Ergativity

**6.1.1. Transitivity**. Na'vi marks the subject of transitive and intransitive verbs differently. To speak any Na'vi sentence with a verb requires one to understand transitivity. This means a deeper and earlier understanding of transitivity is required for Na'vi than is usually required to learn a Human language.<sup>1</sup>

**6.1.1.1**. Many compound verbs are created by pairing an uninflected noun or adjective, or occasionally an interjection, with the verb stem **si** *to do, to make*, which is only used in these compounds, **irayo si** *to thank*, **kavuk si** *to betray*. These verbs are always intransitive and use the dative for any object (§6.4.4.1).

6.1.1.2. Reflexive verbs with the *ap* infix are always intransitive, and causative verbs with the *eyk* infix are always transitive.

**6.1.1.3.** Verbs that are a reflexive of a causative, taking, <**äp**>(**eyk**), are more complex, depending on the transitivity of the original expression:

- If the original construction is intransitive, <**äp**> dominates, and the doer is in the subjective case.
- If the original construction is transitive, <**e**y**k**> dominates, and the doer is in the agentive case.

F F

For example,

Oe täpeykaron. I cause myself to hunt. Oel täpeykaron yerikit. I cause myself to hunt yerik.

<sup>1</sup>Since formal grammar isn't taught as much as it used to be, some English speakers have trouble identifying transitive vs. intransitive verbs. This is further complicated by English grammar, where very often it's not the verb that is transitive or intransitive, but the entire phrase. For example, "I move" is intransitive while "I move the car" is transitive, and only the presence of a direct object triggers the transitive interpretation of the verb. In Na'vi, too, it is usually best to think about transitivity as a clausal, rather than purely verbal, phenomenon.

Here are two quick ways to test for transitivity in English. First, if the word immediately after the verb is a person or thing. So, in "I see the moon" the verb is transitive, but in "he complains constantly" the verb is not. The second test, in case you're uncertain about what's coming after the verb, is to see if you can turn the thing after the verb into a passive sensibly. So, "The moon is seen" is a well-formed passive, while "constantly is complained" is gibberish.

This pattern parallels the verb without any transitivity changes at all, **oe taron** is to **oel taron** yerikit as **oe täpeykaron** is to **ole täpeykaron** yerikit. Forum (20/8/2021)

**6.1.2.** Tripartite. Na'vi marks nouns and pronouns differently if they are the subject of an intransitive verb, the subject of a transitive verb or the direct object of a transitive verb (§6.4).

6.1.2.1. Though the English concept of the "subject" of a verb in Na'vi is divided in two depending on the transitivity of the verb phrases, this division does not apply to participles. There is a verbal object adjective (the passive participle) and a verbal subject adjective (the active participle) which is used for both subjective and agentive subjects (§3.6.2).

### 6.2. Noun Phrases and Adjectives

6.2.1. Number. Are the dual and trial collective vs. plural distributive? Or always obligatory?

**6.2.1.1.** When used with an attributive numeral, nouns are not marked for number, **mrra zìsìt** *five years*. Wiki (18/6/2010)

6.2.1.2. The adjectives of quantity – 'a'aw several, hol few, pxay many, polpxay, holpxaype how many? – also take singular nouns in attributive phrases, lu poru 'a'awa 'eylan he has several  $\mathcal{F}$  friends. NT (16/7/2010)

6.2.1.3. In colloquial speech, number may be marked with the adjective pxay many, lu awngar  $\mathcal{F}$  aytele apxay a teri sa'u pivlltxe we have many matters to talk about. Forum (16/7/2010)

**6.2.1.4**. With verbs of identity (**lu** and **slu**), the basic rule of number marking in Na'vi is, "in referring to the same entity, express number only once per clause."

Menga lu karyu. You two are teachers.	${\mathcal F}$
Fo lu karyu. They are teachers.	${\cal F}$
Menga lu oeyä 'eylan. You two are my friends.	${\cal F}$

 $\mathcal{F}$ 

In the first two sentences, **karyu** is not marked for number since the pronouns are already marked, and the same for **'eylan** in the third sentence. But see §6.3.2 for the question pronoun **tupe**. NT (30/7/2011)

6.2.1.5. General statements about a group or class use nouns in the singular,

(4) Nantangìl yom yerikit. nantang-ìl yom yerik-it viperwolf-AGT eat hexapede-PAT Viperwolves eat hexapedes.

NT (30/7/2011)

**6.2.2. Indefinite**. The adjective **lahe** *other* has the sense of *else* when used with indefinite nouns having the suffix **-o**,

(5) Lu law 'uo alahe, ma eylan. lu law 'u-o a-lahe, ma eylan be clear thing-some LIG-other, voc friends Something else is clear my friends.

**6.2.3.** Free Choice Indefinites. Na'vi uses the adjective ketsran *no matter* (*what*), *whatever* with generic nouns to create free choice indefinites. It can be used like an adjective, ataching with -a- (ex.6, 7), or it can be a conjunction (ex.8,9). The clause with ketsran often, though not always, takes the subjunctive,

- (6)'U aketsran tsun tivam. tsum t<iv>am a-ketsran 'n thing LIG-whatever can suffice(SUBJ) Anything at all will be fine.  $\mathcal{F}$ Pukit aketsran (7)ivinan. a-ketsran puk-it <iv>inan book-PAT LIG-whatever read<subj> Read any book at all.  $\mathcal{F}$ (8) Ketsran tute nivew hivum, plltxe san rutxe 'ivi'awn. poru ketsran tute n<iv>ew h<iv>um, po-ru plltxe san rutxe '‹iv›ì'awn whatever person want<subj> leave<subj>, 3sg-DAT tell QUOT please stay<subj>  $\mathcal{F}$ No matter who wants to leave, tell them to please stay.
- (9) Ketsran tutel 'ivem, tsafnetsngan lu ftxìvä'. ketsran tute-l '‹iv>em, tsa-fne-tsngan lu ftxìvä' whatever person-AGT cook‹suBJ>, that-kind-meat be gross That kind of meat is gross no matter who cooks it.

#### NT (3/31/2013)

6.2.4. Apposition. Nouns in apposition<sup>2</sup> to other nouns are in the subjective case, ayli'ufa  $\mathcal{F}$  awngeyä 'eylanä a'ewan Markusì in the words of our young friend, Marcus. However, the conjunction alu is also used for this (see §6.20.1).<sup>3</sup>

**6.2.4.1.** Titles act as noun modifiers, and are thus not declined when used with proper names. The dative of **Karyu Pawl** "teacher Paul" is **Karyu Pawlur**.

6.2.5. Adjective Attribution. Attributive adjectives are joined to the noun they modify with the affix -a- (see §3.5.1), silpey oe, layu oeru ye'rin siltsana fmawn *I* hope *I* will soon have good news,  $\mathcal{F}$  lora ayli'u, lora aysäfpil beautiful words and beautiful thoughts.  $\mathcal{F}$ 

 $\mathcal{F}$ 

 $\mathcal{F}$ 

<sup>&</sup>lt;sup>2</sup>Nouns are described as *in apposition* when they occur immediately next to each other, with one describing or defining the other. In English, we usually set off the second noun phrase with commas, as in *I told my best friend*, *Bob, that he should learn Na'vi, too.* The name "Bob" is in apposition to "my friend."

<sup>&</sup>lt;sup>3</sup>The bare apposition is Early Na'vi. Using **alu** may be better for future use.

6.2.5.1. Regardless of the order of noun and adjective, the case endings always attach to the noun, never the adjective. Similarly, an enclitic adposition is always attached to the noun (see §6.5.1).

6.2.5.2. When an adverb is used with an attributive adjective, it must not come between the adjective and its noun, that is, **sikenong ahino nihawng** *very detailed examples* or **nihawng hinoa**  $\mathcal{F}$  **sikenong**, never something like **\*hino nihawnga sikenong**.

6.2.5.3. If there are two adjectives modifying a noun, Frommer has a tendency to order them Adj - N - Adj, niawnomum tolel oel ta ayhapxitu li'fyaolo'ä pxaya sipawmit atxantsan as you  $\mathcal{F}$  know, I have received many excellent questions from members of the language community.

**6.2.5.4**. For more than two adjectives, or to use some order other than Adj - N - Adj given above, the adjectives can be put into an attributive clause with **lu**,

(10) yayo a lu lor sì hì'i yayo a lu lor sì hì'i bird REL be pretty and small a small, pretty bird

However, **yayo alor sì hì'i** (without **lu**) is permitted, though not preferred. This is much more likely and acceptable when a third adjective is involved in the clause,

(11) mrra yayo atsawl sì layon mrr-a yayo a-tsawl sì layon five-LIG bird LIG-big and black five big, black birds

 $\mathcal{F}$ 

 $\mathcal{F}$ 

Without mrr-a there, tsawla yayo alayon is preferred. Ultxa (2/10/2010) NT (28/2/2021)

6.2.5.5. A single adjective may be repeated on both sides of the noun to mark intensity. The second adjective receives the phrase stress, **lu po lora tuté** <u>alor</u> *she's an extremely beautiful*  $\mathcal{F}$  *woman*. NT (2/28/2013)

6.2.5.6. When repeating a noun with different adjectives ("the big dog, the little dog, the yappy dog," etc.) the prop noun<sup>4</sup> **pum** is used for the repetitions, **lam set fwa Sawtute akawng holum**,  $\mathcal{F}$  **pum asiltsan i'awn** *it now seems that the evil sky-people are gone, the good ones remain.* However, if a more specialized general term is available it is more elegant to use that. In answer to **polpxaya**  $\mathcal{F}$  **taronyu kelku si tsatsraymi?** *how many hunters live in that village*? the more elegant reply is **tute amevol** *sixteen people*, though **pum amevol** is still perfectly possible. Forum (30/5/2020)

**6.2.5.7**. The noun element in most **si** constructions verb may have an attributive adjective, **wina uvan si** *play a quick game*. Forum (6/12/2013)

6.2.6. Predication. Adjective and noun predicates both use the same construction with the verb lu be, as in reltseotu atxantsan lu nga you are an excellent artist, fisyulang lu rim this flower is  $\mathcal{F}$  yellow.  $\mathcal{F}$ 

<sup>&</sup>lt;sup>4</sup>Frommer calls it a "dummy noun," but it can be reasonably thought of as a kind of pronoun, too.

6.2.6.1. Other verbs that take predicative syntax: slu become and 'efu feel, such as in ngenga slìyu Na'viyä hapxì you will become part of the people, oe 'efu ohakx I am (feel) hungry.

6.2.6.2. If there is ambiguity with **slu** *become* about which constituent is the subject and which the predicate, the predicate can be marked with the adposition **ne**, as in **taronyu slu** <u>ne tsamsiyu</u> *the hunter becomes a warrior*. Wiki (2/10/2010)

6.2.6.3. Sleyku, the causative of slu *become*, also takes an adjective predicate, fula tsayun oeng  $\mathcal{F}$  pivängkxo ye'rin ulte ngari oel mokrit stayawm, oeti nitram sleyku nitxan *it makes me very* happy that we two will soon be able to chat and that I will hear your voice. What about 'eykefu?

**6.2.7.** Comparison. Adjective comparatives and superlatives (*big, bigger, biggest*) are marked with the particle to, which, like an adposition, may come before the noun compared to or be enclitic on it (§2.1.5.3).

Oe to nga lu koak I am older than you. Oe ngato lu koak I am older than you.

6.2.7.1. The superlative is handled with <u>frato</u> than all, fisyulang arim lu hi'i frato this yellow  $\mathcal{F}$  flower is the smallest of all.

6.2.7.2. Comparisons of equality, "as big as a tree," are handled with the idiom **niftxan** *adjective* **na** *noun or pronoun*, as in **oe lu niftxan siltsan na nga** *I am as good as you*. If the point of  $\mathcal{F}$  comparison is a pronoun, or definite noun already part of the discourse, the topical case may be used, **ngari lu oe niftxan siltsan**. This construction is also usable with adverbs. Wiki (1/12/2010)  $\mathcal{F}$ 

**6.2.8.** Direct Address. When speaking to an individual directly the vocative particle ma comes immediately in front of the relationship noun, noun phrase or name, oel ayngati kameie, ma  $\mathcal{F}$  oeyä eylan *I see you, my friends,* ma Tsu'tey, kempe si nga? *Tsu'tey, what are you doing?*  $\mathcal{A}$ 

6.2.8.1. With polar questions, the vocative follows the final **srak**, as in **ngaru lu fpom srak**, **ma Txewì**? *how are you, Txewì*? And while it is most common for the vocative to come at the beginning or end of a clause, it may occur within a clause, **nga**, **ma Neytiri**, **plltxe nìltsan** *you*, *Neytiri*, *speak well*. Wiki (26/2/2018)

6.2.8.2. If multiple individuals are addressed **ma** is not repeated, **ma smukan sì smuke** *brothers and sisters*.

6.2.8.3. The vocative is obligatory when speaking to people (and Eywa), but optional when talking to animals. Forum (6/4/2010)

**6.2.8.4.** Collective nouns may take the suffix -ya, as in mawey, Na'viya, mawey (be) calm, people,  $\mathcal{A}$  (be) calm!

### 6.3. Pronouns

**6.3.1.** Gender. The gendered third person pronouns, poan and poe, are used only when it will help to avoid ambiguity in discourse. Speakers of English and other Western European languages should take care to not use them too often.

**6.3.2.** Number. The forms of the question pronoun tupe have a behavior that differs from the number agreement rules discussed in  $\S6.2.1.4$ . Here, the pronoun may be marked for number even when the noun has been, too. Note the answers to these questions,

Tsaysamsiyu lu tupe? Who are those warriors? (Fo) lu 'eylan Tsu'teyä. They are Tsu'tey's friends.

Tsaysamsiyu lu supe? Who are those warriors? (Fo) lu Kamun, Ralu, Ìstaw, sì Ateyo. They're Kamun, Ralu, Ìstaw, and Ateyo.

The plural forms ask for the identity of individual members, while the singular asks about a group characteristic.

**6.3.3.** Similarity. Pronouns may take the adverbial prefix nì-, producing a form like nìnga *like you*. These forms are used to indicate way of acting, plltxe po nìayoeng *she speaks like us* or *as we*  $\mathcal{F}$  *do*. For describing how someone is perceived, the the adpositions **na** or **pxel** are preferred. Forum (16/8/2016)

**6.3.4.** Fko. The indefinite pronoun fko is like the English pronoun "one" or the less formal "you" in the general sense, as in *one doesn't say such things* vs. *you don't say things like that*. Tsat ke  $\mathcal{F}$  tsun fko yivom *you can't eat that*; tsun fko sivar hänit fte payoangit stivä'nì *one can use a net to*  $\mathcal{F}$  *catch a fish.* 

6.3.4.1. Fko is also used where English would use an unspecified "they" when making general statements, as in <u>plltxe fko</u> san ngaru lu mowan Txilte ulte poru nga *They say you like Txilte*  $\mathcal{F}$  and vice versa.<sup>5</sup>

6.3.4.2. Fko can be used for the English passive when the agent of the verb<sup>6</sup> is animate, as in the idiom **oeru syaw fko Wilyim** my name is William, I am called William, tsali'uri fko pamrel  $\mathcal{F}$  si fyape? how is that word written, how does one write that word?

(12) Fra'ut fkol skera'a. fra'u-t fko-l sk<er>a'a everything-PAT "they"-AGT destroy<IPFV> Everything is being destroyed.

 $\mathcal{A}$ 

 $\mathcal{F}$ 

**6.3.5. Sno.** The reflexive pronoun **sno** refers to the subject or agent of the clause it occurs in. In the genitive (**sney**ä) it may be translated *his own, her own, their own, etc.* It is used to clear up situations found in a sentence like "he prepared his meal." Without clarification, it may not be clear if "his" refers to the person preparing the dinner or someone else:

Pol 'olem peyä wutsot. *He prepared his (someone else's) meal.* Pol 'olem sneyä wutsot. *He prepared his own meal.* 

<sup>&</sup>lt;sup>5</sup>Frommer's translation of this is *I hear you like Txilte and vice versa*.

<sup>&</sup>lt;sup>6</sup>The agent of a passive verb is the person or thing you put with the preposition "by" in English, as in *I was hit* by a car.

Sno can refer back to a topical acting as the subject,

## Skxawngìri zìmup ulte sneyä tsko kxakx.

The idiot fell and broke his/her (own) bow.

As of Dec 2020 there remain questions about how to resolve **sneyä**, etc., when a topical and subject are both in play, as well as whether or not **sneyä** can refer to things in an outer clause, *he thinks that his father*....

Note that the reflexive can anticipate the noun it refers to, as in **sìpawmìri sneyä aynumeyuä**  $\mathcal{F}$  **karyu 'eyng** the teacher responds to his students' questions. Here **sneyä** is coming before **karyu** teacher.

Sno is for third person antecedents only. Wiki (23/1/2018)

**6.3.6.** Lahe. The adjective lahe *other*, *another* can also be used alone as a pronoun, fipoti oel A tspiyang, fle tikenong liyevu aylaru *I* will kill this one as a lesson to the <u>others</u> (see §3.2.3 for the form).

**6.3.7.** Contrastive Demonstratives. To focus contrasting elements, forms of the prenouns fiand tsa- are paired with forms of the independent demonstratives fi'u and tsa'u used with alu:

Fìfkxen alu FÌ'u lu ftxìlor; tsafkxen<sup>7</sup> alu TSA'u ngati tspang. THIS vegetable is delicious; THAT one will kill you.  $\mathcal{F}$ 

 $\mathcal{F}$ 

Fìkaryu alu fìpo lu tsulfätu; tsakaryu alu tsapo lu skxawng. This teacher is a master; that teacher is a fool.

There is also a vocal constrastive stress on the independent forms of fi'u and tsa'u in this construction. NT (31/12/2011)

## 6.4. Use of the Cases

**6.4.1.** Subjective. The unmarked subjective case is used as the subject of intransitive verbs, the predicate noun in predicate constructions (§6.2.6) and with adpositions.

6.4.1.1. With verbs of motion, if the destination comes immediately after the verb, the adposition **ne** may optionally be dropped, leaving an unmarked noun, **za'u fitseng**, **ma 'itetsyip** come  $\mathcal{F}$  here, little daughter.

6.4.1.2. The subjective is also used in exclamations, when a noun or noun phrase is used by itself as an utterance, lora ayli'u, lora aysäfpil beautiful words and beautiful thoughts, ayli'u  $\mathcal{F}$  apawnlltxe niltsan words well spoken!  $\mathcal{F}$ 

6.4.1.3. A time word with the indefinite -o is used in the subjective to indicate a duration of time, <u>zisito amrr ftolia ohe</u> *I* studied for five years, herwi zereiup fitrro niwotx! It's been snowing A all day! wiki (1/12/2010)  $\mathcal{F}$ 

<sup>&</sup>lt;sup>7</sup>Or pum.

**6.4.2.** Agentive. The agentive case is used for the subject of transitive verbs, <u>oel</u> ngati kameie *I See you.* 

6.4.3. Patientive. The patientive is used as the direct object of transitive verbs, ti even f oel F tolel a krr when I receive an answer.

6.4.4. Dative. The dative is used for the indirect object of ditransitive verbs, siltsana fmawn a  $\mathcal{F}$  tsun oe ayngaru tiving good news which I can give to you.

6.4.4.1. The object of a si-verb takes the dative, oe irayo si ngaru I thank you.

6.4.4.2. The causee for the causative of a transitive verb may be in the dative, **oel** <u>ngaru</u> tseykiye'a tsat *I* will make you see it (see §6.11.2).

**6.4.4.3**. The verb **lu** with the dative forms an idiom for possession, where English uses the verb "have," **lu oeru ikran** *I have an ikran*. In this construction the verb usually comes first in the clause. Wiki (28/1/2010)

6.4.4.4. The dative of interest limits the scope of an adjective to the judgement or benefit of a particular individual, fi'u oeru prrte' lu *this is pleasant to me*, tìpängkxo ayoengeyä mowan lu oeru nìngay *our chat is truly enjoyable (to me)*.

**6.4.4.5.** With verbs of speaking, including a word like **pawm** *ask*, the person addressed goes in the dative, **oel poru polawm fi'ut** *I asked him this*.

**6.4.5.** Genitive. The genitive case marks possession, as in oeyä 'eylan *my friend*. But see below for inalienable possession (§6.4.6.3).

6.4.5.1. The genitive can be used predicatively, as in fitseng lu awngeyä this place is ours. However, the prop noun pum possession, thing possessed is more often used, kelku ngeyä lu tsawl;  $\mathcal{F}$ pum oeyä lu hi'i your house is large; mine is small.

6.4.5.2. The partitive genitive marks the larger whole of which something is part, Na'viyä luyu  $\mathcal{A}$  hapxì you are part of the people. This is also used with fractions, Tsu'teyìl tolìng oer mawlit  $\mathcal{F}$  smarä Tsu'tey gave me a half of the prey.

**6.4.5.3**. The genitive is occasionally separated from the noun phrase it goes with, Na'viyä luyu A hapxì you are part of the people.

6.4.5.4. The genitive is also used as the object of verbal nouns, as in tiftia kifkeyä study of the  $\mathcal{F}$  natural world.

**6.4.6**. **Topical**. The topical case marks the topic in a topic-comment construction. See *Topic-Comment*, §7.2, for a longer discussion of this use. The topical has a few more fixed uses, as well.

6.4.6.1. In prose, a topical noun phrase will come as early in the clause as possible: first in a main clause, but often after the conjunction if in a subordinate clause. If the question marker **srake** is used, the topical may either come before or after that.

(13) Srake ngari re'o tìsraw si? srake nga-ri re'o tìsraw si Q you-TOP head pain do Does your head hurt?

(14) Ngari srake re'o tìsraw si? nga-ri srake re'o tìsraw si you-top Q head pain do Does your head hurt?

Similarly, if a complex sentence is introduced with a conjunction, the topical can come before that,

(15) Fori mawkrra fa renten ioi säpoli holum. fo-ri mawkrra fa renten ioi s<äp>
 k-ol>um
 they-TOP after by.means.of goggles adornment <REFL>do<PFV> depart<PFV>
 After they put on their goggles, they left.

Wiki (8/10/2011) Forum (6/5/2022)

6.4.6.1.1. In Reef Na'vi the topical may also come at the end of a clause, **irayo** fistxeliri alor *thanks for this beautiful gift*. In Forest Na'vi the topical only leaves initial position in poetry and songs. OmatiCon (15/1/2023)

6.4.6.2. Some expressions have particular uses of the topical which are idiomatic. For example, the topical is often used with the **si**-verb **irayo si** *to thank* to indicate the thing for which you're giving thanks, **timweypeyri ayngeyä seiyi irayo ningay** *I really thank you for your patience*. These  $\mathcal{F}$  will need to be learned from the dictionary.

6.4.6.3. The topical can be used to mark inalienable possession. Inalienable possession is possession of those things which are intrinsically yours, and which in theory cannot be given away or taken (except by damage). In most languages that have this, words for blood relatives and body parts are the most likely to have special grammar for inalienable possession. Note below that one's spirit and one's life count as inalienable in Na'vi.

<u>Oeri</u> ni'i'a tsyokx zoslolu. <i>My hand is finally healed.</i>	${\cal F}$
Oeri tingayil txe'lanit tivakuk. Let the truth strike my heart.	${\cal F}$
<u>Oeri</u> ta peyä fahew akewong <u>ontu</u> teya längu.	$\mathcal{A}$
My nose is full of his alien smell.	
<u>Ngari</u> hu Eywa salew <u>tirea, tokx</u> 'i'awn slu Na'viyä hapxì.	$\mathcal{A}$
Your spirit goes with Eywa, your body remains to become part of the People.	
Ngari tswintsyìp sevin nìtxan lu nang! What a pretty little queue you have!	${\cal F}$
Tseiun oe pivlltxe san <u>oeri</u> lu <u>tìrey</u> sìltsan nìngay sìk.	${\cal F}$
Happily I'm able to say that my life is really good.	

Note in most of the examples that the possessed noun need not fall immediately next to the topical. NT (11/7/2010)

6.4.6.4. The topical can be used for the point of comparison in comparisons of equality (see §6.2.7.2).

**6.4.7. Subject Dropping.** In English and many European languages you can drop the subject between clauses, so long as it stays the same,

I went home and \_ went to bed.

where I have used the underline, the same subject, *I*, is understood.

Na'vi has at least three case roles that can be understood broadly as the "subject:" the agentive, the subjective, and sometimes even the dative can approximate subject-like behavior, in such things as **fi'u sunu oer** *I like this*.

In Na'vi you can drop anything that is subject-like between clauses, so long as the context is clear.

Oeru lu upxare ulte \_ zene tivätaw. I have messages and \_ must return. Teylu sunu oer. Yom pxim! I like teylu. (I) eat (it) often!

Fayupxaremì oe payängkxo teri horen lì'fyayä leNa'vi fpi sute a tsun srekrr tsat sivar. Ayngeyä sìpawmìri kop fmayi fitsenge tivìng sì'eyngit.

 $\mathcal{F}$ 

In these messages I will chat about the rules of the Na'vi language for people who can already use it. I will also try to give answers here concerning your questions.

If clarification is needed, just use the appropriate pronoun. For example, in the first example above, you could also say **oe zene tivätaw**. Also notice in the second example that the "subject" is the dative, **oer**, but in the second sentence the omitted subject is in the agentive case, **oel**. Forum (25/10/2022)

#### 6.5. Adpositions

Na'vi adpositions may govern nouns, pronouns and adverbs of place and time. Please see the dictionary maintained at LearnNavi.org or Stefan Müller's Annotated Dictionary for the range of uses and meanings for individual adpositions.

6.5.1. Position. Adpositions can fall in two places. First, they may come before the entire noun phrase they modify, and are written as separate words, ta peyä fahew akewong with (from) his  $\mathcal{F}$  alien smell, ngari hu Eywa salew tirea your spirit goes with Eywa. Second, they may be enclitic,  $\mathcal{A}$  in which situation they are always attached to the noun, fitrrmì letsranten on this important day,  $\mathcal{F}$  aylì'ufa awngeyä 'eylanä a'ewan in the words of our young friend, lala tsarelmì arusikx in that  $\mathcal{F}$  old movie.

**6.5.2.** Lenition. Several of the adpositions cause lenition in the following word. In dictionaries these are generally indicated as *adp.+*, with the plus sign, as usual, indicating lenition.

6.5.2.1. Enclitic adpositions do not cause lenition in the noun they are attached to. So, **mì hilvan** *in a river*, but **kilvanmì**. The combination **hilvanmì** can only mean *in rivers*. Enclitic adpositions also do not cause lenition on a following word, so **fo kilvanmì kllkxem** *they stand in a river*, not **fo kilvanmì \*hllkxem**.

However, whatever word immediately follows a non-enclitic adposition will be lenited. It doesn't have to be the noun, **mì hivea trr** *on the seventh day* (not **\*mì kivea srr**). Wiki (24/8/2010)

6.5.2.2. Since lenition alone is also used as the short plural (§3.1.4.1), there is a chance for number uncertainty depending on the conversational context. To be clear about number, use the full plural prefix ay+; the lenited form without ay+ should be interpreted as singular. NT (1/7/2010)

## 6.6. Adverbs

<b>6.6.1.</b> Degree and Quantity. Adverbs of degree and quantity very often follow the element they modify, ' <b>Rrtam</b> ' tsranten <u>nitxan</u> awngaru <u>niwotx</u> on Earth it matters <u>very much</u> to us <u>all</u> .	${\mathcal F}$
6.6.1.1. With predicate adjectives a very common pattern is [ADJ lu ADV], ngeyä li'fya leNa'vi txantsan lu ningay your Na'vi is truly excellent. Similarly, in the dialog for the first film we encounter [ADV LU ADJ] once, peyä menarisi nihawng lu hi'i and his eyes are too small.	${\cal F}$ ${\cal A}$
<b>6.6.2.</b> With Gerunds. The gerund retains enough of its verbal nature that it, too, may take an	${\mathcal F}$
<b>6.6.3.</b> Correlative Comparisons. The verbs 'ul <i>increase</i> and nän <i>decrease</i> are used idiomatically as correlative adverbs, 'ul 'ul <i>the more the more</i> and nän nän <i>the less the less</i> .	
<b>'Ul tskxekeng si, 'ul fnan.</b> The more you practice, the better you'll get.	F
<b>'Ul tute, 'ul tìngäzìk.</b> The more people, the more problems.	F
Nän ftia, nän lu skxom a emza'u. The less you study, the less chance you have of passing.	F
Nän yom kxamtrr, 'ul 'efu ohakx kaym. The less you eat at noon, the hungrier you'll feel in the evening.	F
NT (29/2/2012)	
6.6.4. Fitxan and Niftxan. Both adverbs fitxan and niftxan are used with the conjunction kuma	

(§6.18.7) for result clauses,

Lu poe sevin nìftxan (or fìtxan) kuma yawne slolu oer.	${\mathcal F}$
She was so beautiful that I fell in love with her.	

In these constructions the akum/kuma must be contiguous with the fitxan/niftxan. NT (19/6/2012)

**6.6.5. Keng.** The adverb **keng**, *even*, is used to prop up unexpected information, **yom teylut keng oel** *even I eat teylu*. Wiki (31/12/2010)

**6.6.6.** Li. The primary meaning of li is *already*, tikangkem li hasey lu *the work is already finished*.  $\mathcal{F}$  NT (20/2/2011)

6.6.6.1. The negative, ke li, means "not yet," and uses pleonastic negation (§6.16.2), fo ke li ke polähem *they have not yet arrived*. NT (4/9/2011)

6.6.6.2. With imperatives li indicates strong urgency, Ngal mi fitsengit terok srak? Li kä! You're  $\mathcal{F}$  still here? Get going! With ko (§6.22.1), li ko (accented on li) it means "well, get to it, then," or "let's get on it."

6.6.6.3. In answers it conveys a somewhat hesitant "yes," much like English "sort of,"

A: Nga mllte srak? Do you agree? B: Li, slä... Well, yes, I guess so, but....

The negative of this, ke li, means something like "not really."

6.6.6.4. When **li** is paired with the adposition **sre** they mean "by" in the temporal sense of "before or up to but, not after," **kem si li trraysre** *do it by tomorrow*. If **sre** comes before the  $\mathcal{F}$  noun, it combines with **li** into <u>lisre</u>, which like **sre** will cause lenition, **kem si lisre srray** *do it by*  $\mathcal{F}$  *tomorrow*.

**6.6.7.** Niwotx. The adverb niwotx *all (of), in toto, completely* is frequently used with plural nouns and pronouns to give a collective sense,

(16) Aysutel niwotx new tilayrot. ay-tute-l niwotx new tilayro-t PL-person-AGT in.toto want freedom-PAT All people want freedom.

Ayeylanur oeyä sì eylanur lì'fyayä leNa'vi <u>nìwotx</u> to <u>all</u> my friends and friends of the Na'vi  $\mathcal{F}$  language, tìfyawìntxuri oeyä perey aynga <u>nìwotx</u> you are all waiting for my guidance.  $\mathcal{F}$ 

6.6.7.1. With dual number, the sense of niwotx is *both*,

(17) Mefo niwotx yolom. me-po niwotx yom DUAL-3P in.toto <PFV>eat They both ate.

#### NT (15/8/2011)

**6.6.8.** Nìfya'o. A noun phrase built on fya'o can be used freely to produce adverbs of manner. In this construction the entire noun phrase is adverbialized, not just the word nì- is prefixed to, nì-[fya'o letrrtrr] *in an ordinary way*, poe poltxe nìfya'o alaw *she spoke clearly*.

 $\mathcal{F}$ 

 $\mathcal{F}$ 

6.6.8.1. Nìfya'o can also take attributive phrases, nìfya'o a hek in a way that's strange.

6.6.8.2. Note about sentence adverbs vs. nìfya'o forms?

**6.6.9.** "Kop" and "niteng". Both kop and niteng answer to the English adverb *also*. Kop has more the sense of *in addition*, *further*, while niteng means *similarly*, *too*, *likewise*. Compare oel poleng kop poru tsa'ut *I also (in addition) told him that* to oel poleng niteng poru tsa'ut *I told him that*, *too*.

6.6.9.1. They can even be used together, furia nga lu nitram, lu oe kop nitram niteng since  $\mathcal{F}$  you're happy, I, too, am also happy.

**6.6.10.** Sunkesun. The adverb <u>sunkesun</u> like it or not is a shortened form of sunu ke sunu with the default addressee being you, sunkesun po slayu olo'eyktan whether you like it or not, he's  $\mathcal{F}$  going to become chief. NT (6/6/2019)

**6.6.10.1.** Note that **sunkesun** can only be addressed to the listener, otherwise one must use a **ftxey... fuke** construction, **pol viyewng ayevengit fiha'ngir**, **ftxey sunu fuke** *He is going to take*  $\mathcal{F}$  *care of the children this afternoon, whether he likes it or not.* 

#### 6.7. Aspect and Tense

**6.7.1.** The Role of Context. Na'vi verbs are frequently unmarked for tense or aspect, leaving a verb without infixes, or at most the subjunctive infix. Absent other information, such as an adverb of time or some break in discourse, an unmarked verb continues the tense and/or aspect of the verb in the previous sentence.

6.7.1.1. Although a subordinate clause may occur before the main clause, it takes its temporal and aspectual context from the main clause, **oel foru fiayli'ut toling a krr, kxawm oe harma-**  $\mathcal{F}$  hängaw when I gave them these words perhaps I was sleeping, ti'eyngit oel tolel a krr, ayngaru  $\mathcal{F}$  payeng when I receive an answer, I will tell you.

6.7.2. The Unmarked Verb. The unmarked verb form has two additional jobs. First, it can indicate the present tense, ayngaru seiyi irayo *I* thank you. Second, it is used for habitual or  $\mathcal{F}$  general statements, nga za'u fitseng pxim srak? do you come here often? lu fo lehrrap they are  $\mathcal{F}$  dangerous.

**6.7.3. Aspect**. In general, Na'vi marks aspect more than it marks tense.<sup>8</sup> It is useful to think of the perfective as a snapshot presentation of an event, while the imperfective sets the background,

1. I went to the store. (perfective)

<sup>&</sup>lt;sup>8</sup>Verb aspect can be difficult for speakers of English and most European languages, since these mix tense and aspect together in their verbs, making it difficult to distinguish the ideas. The dangerous confusion for beginners is this idea that verb aspect is about the completion or non-completion of an act. This is not the case. Rather, verb aspect is about how the speaker wishes to *present* a scene. For example,

<sup>2.</sup> While I was going to the store (imperfective), I saw the most amazing thing. (perfective)

In both sentence (1) and (2) the act of going to the store is done and over, but I use the imperfective in sentence (2) because it's background to the next, perfective, statement.

tengkrr palulukan moene kxll <u>sarmi</u>, <u>poltxe</u> Neytiril aylì'ut a frakrr 'ok seyä layu oer as the  $\mathcal{F}$  thanator was charging towards the two of us, Neytiri said something I will always remember.

6.7.4. Simultaneous Imperfective. Because the imperfective presents a state of affairs as ongoing, it can be used in complex sentences to indicate simultaneous action, fitxon yom tengkrr  $\mathcal{F}$ teruvon this night (we) eat while leaning. Wiki (14/3/2010)

6.7.5. Anterior Perfective. In complex sentences, the perfective in a subordinate clause can indicate the completion of an action prior to the event in the main clause,

Ti'eyngit oel tolel a krr, ayngaru payeng. When I receive an answer, I will let you know.

Fori mawkrra fa renten ioi säpoli holum. After they put on their goggles, they left.

**6.7.6. Punctual Perfective.** The perfective is used in several single verb expressions to indicate the event occurred in an instant, **tslolam** *got it*, *I understand*, **rolun** *found it*! Frommer says **tole**, *got it!*, is for a "flash of insight."

6.7.7. Tense. Na'vi tense, as in Human languages, simply locates an event in time.

There are too few examples of complex sentences to be sure about relative tense in subordinate clauses.

**6.7.8. Proximal Tense.** The proximal past and future mark events in the "near" past or future, where nearness is not an absolute scale, but is determined by context and the perspective of the speaker.

6.7.8.1. While the adverb **ye'rin** *soon* can be used with the future forms taking  $\langle ay \rangle$ , it is redundant with the proximal future forms taking  $\langle iy \rangle$ . Forum (25/10/2022)

6.7.9. Intentional Future. The intentional future forms in  $\langle isy \rangle$  and  $\langle asy \rangle$  indicate the determination by the speaker to bring about a state of affairs, rather than a prediction about the future. Ayoe ke wasyem we will not fight, tafral ke lisyek oel ngeyä keye'ungit therefore I will not heed  $\mathcal{F}$  your insanity.  $\mathcal{F}$ 

6.8. Subjunctive

The subjunctive is very frequent in Na'vi. Outside its use in independent sentences, the subjunctive is highly grammaticalized, that is, its use is simply required in certain grammatical constructions without necessarily hinting at an *irrealis* sense.

**6.8.1.** Optative. It is used to indicate a wish, oeyä swizaw ningay tivakuk *let my arrow strike*  $\mathcal{F}$  *true.* 

 $\mathcal{F}$ 

 $\mathcal{F}$ 

In complex sentences aspects might take on senses related to completion or non-completion with respect to other clauses in the full sentence, but these are special uses.

**6.8.2.** Nirangal. Unrealizable wishes use the adverb nirangal followed by the imperfective subjunctive to indicate an unattainable wish in the present, with the perfective subjunctive for an unattainable wish in the past. This can be expressed in English with phrases like, "if only" or "I wish," nirangal lirvu oeyä frrnenur lora sanhì *I wish my children had pretty stars*, nirangal oel tslilvam ni'ul *if only I had understood more*. Wiki (14/3/2010)

**6.8.3.** Modal Complement. The verbal complement to a modal verb, such as zene *must*, tsun *can*, etc., will take the subjunctive, as in ayngari zene hivum *you must leave*, oe new nitxan ayngaru  $\mathcal{F}$  fyawivintxu *I want very much to guide you*, fmawn a tsun oe ayngaru tiving *news which I can*  $\mathcal{F}$  give to you.

**6.8.3.1.** The verb controlled by the modal will only takes the pre-first position infixes (the reflexive and causative, §3.6.2) and the subjunctive. It will not take tense, aspect, or affect infixes. So, marking for these should go on the modal, **oe namew tsive'a** *I* wanted to see, never **\*oe new tsimve'a**. Forum (14/10/2010)

Pori mesyokx rìkxi, ha ke t <u>sayun</u> yerikit <u>tivakuk</u> .	${\cal F}$
His hands tremble, so he will not be able to hit the hexapede	
Furia tsolun oe ngahu pivängkxo, oeru prrte' lu ningay.	${\cal F}$
It was really a pleasure to speak with you.	
Fteria oel lì'fyati leNa'vi, slä mi ke tsängun pivlltxe na hufwe.	${\cal F}$
I'm studying Na'vi, but I'm afraid I still can't speak it fluently.	

Except in poetry or ceremonial language, the modal verb will always come before the controlled verb. NT (3/19/2011)

6.8.3.2. Known modal verbs and verbs with modal syntax:<sup>9</sup>

fmi	try, attempt	ongö'i	begin, start
ftang	stop	0	refuse <sup>10</sup>
kan	intend to <sup>10</sup>	sto	
kom	dare	tsun	can, be able
may'	try (experiential)	var	keep on, continue to must, have to
new	want <sup>10</sup>	zene zenke	
nulnew	prefer	Zenke	must not

NT (25/5/2011) Wiki (1/12/2010) Wiki (2/2/2011) Ultxa (2/10/2010) Wiki (13/12/2012) NT (6/6/2019) NT (23/12/2020)

**6.8.3.3.** Note that the modal verbs are considered intransitive with the subject of the modal phrase in the subjective case, regardless of the transitivity of the controlled verb, <u>oe</u> new yivom teylut *I* want to eat teylu. But see "word order effects," §7.1.4.1, for some exceptional patterns.

If the modal is one capable of taking a subclause, however, then it behaves transitively, **oel**  $\mathcal{F}$  **new futa nga srew** *I want you to dance* (§6.8.4).

6.8.3.4. When ke is used with modal verbs, it may go either in front of the modal verb or in front of the controlled verb. In some cases, this changes the meaning as with ke zene kivä *do not*  $\mathcal{F}$  *have to go* versus zene ke kivä *must not go* or **po** ke tsun yivom *they are not able to eat* versus **po**  $\mathcal{F}$  tsun ke yivom *they are able to not eat*. Forum (23/7/2019)  $\mathcal{F}$ 

**6.8.4.** Modals with Subclauses. Several of the modals may also take subclauses introduced with futa or a fi'ut (§3.4.2). Normally when the subject of the modal and the controlled verb are the same, you do not need to use one of the conjunctions, but it is possible.

Oe new srivew. I want to dance.	$\mathcal{F}$
<b>Oel new futa srew</b> . <i>I want to dance</i> , lit., <i>I want that I dance</i>	${\mathcal F}$

Note here than the sublcause does not require the subjunctive. However, due to analogy with the very common pattern seen in **oe new srivew**, it is permitted to use the subjunctive as well, **oel new futa srivew**. This also applies if the the subject of the subclause is different from the main clause:

Oel new futa nga srew. I want you to dance.	${\mathcal F}$
Oel new futa nga srivew. I want you to dance.	${\mathcal F}$

Poel stolatso futa mefo tivaron tsaha'ngir.

She must have refused (their request) to hunt that afternoon.

#### Forum (29/11/2020) Forum (13/12/2012)

The verbs which permit this variation in the subclause are: **fmi**, **kan**, **may**', **new**, **nulnew**, and **sto**.

6.8.4.1. The causative of transitive **new** will also take a **futa** clause, **pol oeru neykew futa oel**  $\mathcal{F}$  **yivom teyluti** *he made me want to eat teylu*, lit. *he made me want that I eat teylu*. Wiki (3/10/2010) Forum (29/11/2020)

**6.8.5.** Other Uses. The subjunctive is also used in purpose clauses with fte (§6.17.1), conditional sentences (§6.19), and with the conjunction tsnì when used with certain verbs (§6.20.8).

### 6.9. Participles and Gerunds

**6.9.1.** Participles. Na'vi participles are restricted in their use – they may only be used attributively, never as predicates. Since they are adjectives, they are linked to the noun they go with using the attributive affix -a- (3.5.1), palulukan atusaron lu lehrrap *a hunting thanator is dangerous*.  $\mathcal{F}$ 

6.9.1.1. Some derived words have participles in them, and these may be used predictively, as in **lu nga txantslusam** *you are wise*, with the active participle **tsl**<**us**>**am** in it. *F* 

<sup>&</sup>lt;sup>9</sup>Other candidates: flä *succeed*, hawl *prepare*.

<sup>&</sup>lt;sup>10</sup>See also §6.8.4.

**6.9.1.2.** The participles of **si** construction verbs are counted as a single word. They are written with a hyphen connecting **si** and the other word and the attributive **a** is attached to the entire phrase, not just **si**:

## srung-susia tute tute asrung-susi

Both phrases mean *a helping person*.

**6.9.2.** Gerunds. Any verb may be freely turned into a gerund, a noun describing the action of the verb (§5.1.4.1). They can be used with adverbs (§6.6.2), but they may not take subjects or direct objects, tiyusom 'o' lu *eating is fun*. Wiki (18/6/2010)  $\mathcal{F}$ 

6.9.2.1. English often uses gerunds to nominalize a phrase ("running a marathon is difficult"). In Na'vi such clause nominalization is handled with fi'u or tsa'u (§6.18.5), fwa yom teylut 'o' lu  $\mathcal{F}$  eating teylu is fun. Ultxa (3/10/2010)

## 6.10. Reflexive

**6.10.1. True Reflexives.** The reflexive infix  $\langle \ddot{a}p \rangle$  indicates the subject of the verb is performing an act on themself. The subject is in the subjective, not agentive, case, as in **oe tsäpe'a** *I see myself*.  $\mathcal{F}$  Wiki (1/2/2010)

**6.10.2.** Intransitive Reflexives. With intransitive verbs that take dative objects reflexive pronoun **sno** is used,

Po yawne lu snor. He loves himself.

#### NT (31/12/2011)

**6.10.3.** Detransitive. The reflexive infix may also be used to create intransitive verbs,<sup>11</sup> such as win säpi *to hurry*.

**6.10.4.** Reciprocal. When a reflexive verb occurs with the adverb fitsap *each other*, the meaning is reciprocal, mefo fitsap mäpoleyam tengkrr tsngawvik *the two of them hugged each other and*  $\mathcal{F}$  *wept.* NT (30/10/2011)

6.10.4.1. With intransitive verbs that take dative objects there are two possibilities,

Moe smon moeru fitsap. We know each other.	${\cal F}$
Moe smon fitsap. We know each other.	${\cal F}$

With third person reflexives of any number, the dative of sno is used,

Fo smon (snoru) fitsap nìwotx. They all know each other.

 ${\mathcal F}$ 

NT (31/12/2011)

<sup>&</sup>lt;sup>11</sup>Students of Romance languages will find this familiar, *je me lave* vs. *je lave ma voiture*.

#### 6.11. Causative

The causative infix **(eyk)** increases the transitivity of a verb, adding another argument. All causative verbs are thus transitive, requiring the agentive case for the subject.

**6.11.1.** Causative of Intransitive Verb. When an intransitive verb is made causative, the causee, which had been in the subjective case, is in the patientive.

<u>Oe</u> kolä neto *I* went away. Pol oeti keykolä neto *She made me go away*.

**6.11.2.** Causative of Transitive Verb. When a transitive verb is made into a causative, the causee, which had been in the agentive case, goes into the dative. This leaves the original accusative in place.

 $\mathcal{F}$ 

 $\mathcal{F}$ 

 $\mathcal{F}$ 

 $\mathcal{F}$ 

Neytiril yerikit tolaron Neytiri hunted hexapede. Eytukanil Neytirir yerikit teykolaron Eytukan made Neytiri hunt a hexapede.

6.11.2.1. The causee may also be indicated with the adposition fa, *by means of*. This defocuses the causee somewhat, focusing instead on either the causer or object.

Neytiril yerikit tolaron Neytiri hunted hexapede. Eytukanil fa Neytiri yerikit teykolaron Eytukan had a yerik hunted by Neytiri.

## 6.12. Ambitransitivity

A normally transitive verb can be paired with a subjective, rather than agentive, noun as the subject. This is used when the direct object is considered irrelevant and only the verbal action matters. For example, **oe taron** *I hunt* is a general statement about one's activities, where what one is hunting in particular doesn't matter. NT (28/3/2012)

Ngal pelun faystxenut frakrr tsyär?	
Why do you always reject these offers?	VS.
Nga pelun frakrr tsyär?	
Why do you always reject everything? or such	n things?

This pattern of alternation can also be called an "antipassive" construction, and may be freely used in Na'vi.

**6.12.1. Omitted Object**. This use should be distinguished from omission of a direct object that exists in the context. For example,

Ngal ke tse'a txepit srak? Do you not see the fire? Oel tse'a. I see (it).

Here the direct object is simply not mentioned, rather than suppressed entirely, so the verb and subject still follow the normal transitive syntax.

**6.12.2.** Causative. There is no way to distinguish the antipassive in the causative. For example, the resulting action of the sentence **oel poru teykaron** *I make him hunt* could either be **po taron** *he hunts (something we don't care about)* or **pol taron** *he hunts (something in particular)*. Ultxa (3/10/2010)

#### 6.13. Commands

**6.13.1.** Unmarked. Commands in Na'vi require no special infix. Positive commands are simply a verb stem, Kä! Kä! Go! Go!, mefoti yìm bind them! The pronoun may also be stated explicitly,  $\mathcal{A}$  'awpot set fixey ayngal (you) choose one now.  $\mathcal{F}$ 

6.13.2. With the Subjunctive. A command may also use the subjunctive infix  $\langle iv \rangle$ . Frommer says, "at an earlier point in the history of the language there was probably a polite/familiar distinction (the  $\langle iv \rangle$  form being the politer one), but that's no longer the case. They're used interchangeably. So to say 'Go!' you can say either kivä or just kä."

**6.13.3. Prohibitions.** Negative commands are not negated with the usual negative adverb ke, but rather use the word rä'ä, as in rä'ä hahaw *don't sleep*.

6.13.3.1. Rä'ä may follow the verb for special emphasis, oeti 'ampi rä'ä, ma skxawng! don't  $\mathcal{F}$  touch me, you moron! NT (27/11/2012)

6.13.3.2. With si-construction verbs, rä'ä intrudes between the noun and si, txopu rä'ä si *don't be afraid*, tsakem rä'ä sivi *don't do that (action)* (see also §6.16.1.1).

#### 6.14. Questions

**6.14.1. Polar Questions.** Simple yes-no questions are marked with the particle srak(e) which occurs at the start or the end of the clause. When the particle appears at the end of the clause, it is usually just srak, the longer srake occurring at the beginning of the clause. Ngaru lu fpom  $\mathcal{F}$  srak? *are you well*?

6.14.1.1. The particle srak(e) is requesting confirmation on the truth or falsity of the entire statement it is attached to. So the correct answer to **nga ke lu Txewi srak?** *you're not Txewi?* is *F* **srane** if you are not, and **kehe** if you are. Note that English handles this situation differently, and English speakers will need to take care with how they answer negative questions. NT (28/2/2018)

6.14.2. Ftxey... Fuke. In addition to srak(e) a yes-no question can be made with an idiom using ftxey choose and fuke or not. You can say either srake nga za'u? are you coming or ftxey nga za'u  $\mathcal{F}$  fuke are you coming or not? Wiki (24/3/2010)  $\mathcal{F}$ 

6.14.3. Wh-Questions. Use of a question word that contains -pe+ is sufficient to create a question, kempe si nga? what are you doing? In many languages a question word must come first in the sentence. Na'vi has no such requirement, fiswiräti ngal <u>pelun</u> molunge fitsenge? why did A you bring this creature here?

**6.14.4.** Tag Question. The Na'vi tag question (Eng. "right?", Fr. "n'est-ce pas?") is marked with either kefya srak or simply kefyak (ultimately derived from ke fifya srak?). Wiki (1/3/2010)

**6.14.5.** Conjectural Questions. Questions which the speaker doesn't expect even the listeners to know the answer to are marked with the evidential infix (ats), pol pesenget tatsok? where  $\mathcal{F}$  in the world could she be? srake pxefo li polähatsem? I wonder if the three of them have already  $\mathcal{F}$  arrived. NT (30/10/2011)

6.14.6. Choice Questions. A question in which the speaker offers two choices is formed by placing fu before each choice, Nulnew ngal fu fi'ut fu tsa'ut? Do you want this or that? NT  $\mathcal{F}$  (30/09/2019)

## 6.15. Affect and Evidence

**6.15.1.** Affect. Two second position infixes are used to mark the speaker's attitude about what they are saying, **(ei)** for positive orientation and **(äng)** for negative orientation, **oel ngati kameie** *A I see you*, **oeri ta peyä fahew akewong ontu teya längu** *his alien smell fills my nose*.

**6.15.1.1**. If a statement inherently encodes very positive or negative emotion the infix is likely to be omitted, as in **nga yawne lu oer** *I love you*. Wiki (1/2/2010)

 $\mathcal{F}$ 

**6.15.2.** Evidence. The second position infix  $\langle ats \rangle$  is used to mark a suppositional statement from evidence,<sup>12</sup> 'uol ikranit txopu sleykolatsu, taluna po tsik yawo something must have frightened  $\mathcal{F}$  the banshee, because it suddenly took to the air. Wiki (19/2/2010)

## 6.16. Negation

**6.16.1.** Simple Negation. The adverb ke is used to negate a sentence, fitxon na ton alahe niwotx  $\mathcal{F}$  pelun ke lu teng? why is this night not like all other nights?

6.16.1.1. With si-construction verbs, the ke comes before si, as in po pamrel ke si *he doesn't write*. The phrase accent shifts from the noun or adjective part of the si-verb to ke, pamrel ke si (see also §6.13.3).

6.16.1.2. Imperatives are negated with the adverb rä'ä. See §6.13.3.

6.16.1.3. In some cases, the position of **ke** in a modal construction changes the meaning. See §6.8.3.4.

**6.16.2.** Pleonastic Negation. When a negative adverb or pronoun (§3.4) is used ke is still required with the verb, ke'u ke lu ngay nothing is true, slä ke stä'nì kawkrr but (he) never catches  $\mathcal{F}$  (her). Wiki (2/5/2010)

6.16.2.1. When the prenoun fra- is negated the verb is also negated, ke frapo ke tslolam not  $\mathcal{F}$  everyone understood. Ultxa (3/10/2010)

6.16.3. Kaw'it. A word or phrase may be singled out for negation with ke... kaw'it not... at all, as in fo ke lu 'ewan kaw'it they are not young at all. Wiki (6/4/2010)

<sup>&</sup>lt;sup>12</sup>This roughly corresponds to English "must" in such statements as "it must have rained" or "he must be having trouble with his homework."

### 6.17. Complex Sentences

6.17.1. Purpose. Purpose clauses take the conjunction fle (negative fleke) with the subjunctive, sawtute zera'u fle fol Kelutralti skiva'a the sky people are coming to destroy Hometree; makto  $\mathcal{F}$  kawl, ma samsiyu, fle tsivun pivähem niwin ride hard, warriors, so you can get there fast! tsun  $\mathcal{F}$  fko sivar hänit fle payoangit stivä'ni one can use a net to catch a fish.

6.17.1.1. In Na'vi purpose clauses are used in several situations where English would simply use an infinitive, **pxiset ke lu oeru krr** fte ti'eyngit tiving right now I don't have time to give an  $\mathcal{F}$  answer.

6.17.2. Asyndeton. Short, parallel phrases<sup>13</sup> may be joined without a conjunction connecting them. Yola krr, txana krr, ke tsranten *it doesn't matter how long it takes*, literally *short time*, *long*  $\mathcal{F}$  *time*, *doesn't matter*; 'uo a fpi rey'eng Eywa'evengmi 'Rrtami tsranten nitxan awngaru niwotx  $\mathcal{F}$  something that matters a lot to all of us for the sake of The Balance of Life on both Pandora and Earth; lora ayli'u, lora aysäfpil beautiful words and beautiful ideas.  $\mathcal{F}$ 

6.17.2.1. Two verbs in sequence without a conjunction are sequential, za'u kaltxì si ko! come  $\mathcal{F}$  (and then) say hello! ngari hu Eywa salew tirea, tokx 'ì'awn slu Na'viyä hapxì your spirit goes  $\mathcal{A}$  with Eywa and your body remains and becomes part of the People, pol tsatxumit noläk terkup he  $\mathcal{F}$  drank the poison and died.

Verbs controlled by a modal may also be sequenced in this way, with the possibility that both might take the subjunctive. Both of the following are acceptible:

 $\mathcal{F}$ 

 $\mathcal{F}$ 

Tsun nekll zivup tsawng. It can fall to the ground and break. Tsun nekll zivup tsivawng. It can fall to the ground and (can) break.

Additional verbs can be introduced in a sequence by inserting tsakrr. Forum (2/5/2020) NT (21/4/2020)

## 6.18. Relative Clauses and Phrase Attribution

6.18.1. Particle "A". Na'vi relative clauses are created with the attributive particle **a**. As with adjective attribution, a relative clause may either precede or follow the word it modifies, po tsane  $\mathcal{F}$  karmä a tsengit ke tsime'a oel *I didn't see the place he was going to*, palulukan a teraron lu lehrrap  $\mathcal{F}$  a thanator that's hunting is dangerous.

6.18.1.1. Note that the attributive **a** is a particle, not a pronoun, and will not take case marking.

**6.18.2.** Referential Hierarchy. When the head<sup>14</sup> of a relative clause is the subject or direct object in that relative clause, it is omitted,

<sup>&</sup>lt;sup>13</sup>That is, phrases following the same pattern of grammar.

<sup>&</sup>lt;sup>14</sup>The "head" of the relative clause is the noun to which the relative clause is attached. It has a syntactic role in both the main clause and the relative clause. For example, in the sentence *I see the man who is running*, the word "man" is the direct object of the main clause "I see the man" but is the subject of the relative clause "the man is running." This element common to both clauses is sometimes also called a "pivot."

Ngal tse'a a tute lu eyktan. *The man whom you see is leader*. Ngati tse'a a tute lu eyktan. *The man who sees you is leader*.

For other cases or adpositional phrases, a resumptive pronoun must be used -po for animate heads and **tsaw** for inanimates.

 $\mathcal{F}$ 

 $\mathcal{F}$ 

 $\mathcal{F}$ 

 $\mathcal{F}$ 

 $\mathcal{F}$ 

 $\mathcal{F}$ 

poru mesyal lu a ikran an ikran with two wings
Po tsane karmä a tsengit ke tsime'a oel.
I didn't see the place which she was going (to it).
Fipo lu tute a oe pohu perängkxo.
This is the person who I'm talking with (him).

6.18.2.1. When the head of the relative clause is a direct object in it, the subject of the verb must still take the agentive marking, as in <u>ngal</u> tse'a a tute *the man whom you see* from above, not \*<u>nga</u> tse'a a tute and teylu a <u>oel</u> yerom lu ftxilor *the teylu I'm eating is delicious*. NT (28/3/2012)

6.18.3. Other Attributive Phrases. Though English can modify nouns directly with prepositional phrases ("the man on the moon"), Na'vi attaches such phrases to nouns with a, as in fipo  $\mathcal{A}$  lu vrrtep a mì sokx atsleng this is a demon in a false body, ngeyä teri faytele a aysänumeri your instructions about these matters.

**6.18.3.1.** The shades of colors can be made more precise with the adposition **na** *like*. To use such a phrase attributively the entire phrase is hyphenated and treated like a normal adjective. So, from **ean na ta'leng** (*Na'vi-)skin-blue*:

Fisyulang <u>aean-na-ta'leng</u> lor lu nitxan. Fisyulang <u>ata'lengna-ean</u> lor lu nitxan. Ean-na-ta'lenga fisyulang lor lu nitxan. Ta'lengna-eana fisyulang lor lu nitxan.

**6.18.3.2.** Single adverbs may also be used attributively, ke zasyup li'Ona ne kxutu a mìfa fu a  $\mathcal{F}$  wrrpa *The l'Ona will not perish to the enemy within or the enemy without.* 

**6.18.4.** With Adjectives. A relative clause may follow an attributive adjective on the same side of the noun,

(18) Kaltxì, oeyä eylanur a'ewan a tok Toitslanti. kaltxì, oe-ä ay-'eylan-ur a-'ewan a tok Toitslan-ti hello, I-GEN PL-friend-DAT LIG-young REL inhabit Germany-PAT Hello, my young friends from Germany.

Another acceptable word order is Kaltxì, oeyä 'ewana eylanur a tok Toitslanti. NT (28/2/2021)

**6.18.5.** Clause Nominalization. Entire clauses can be turned into nouns and brought into the syntax of another sentence using the attributive particle, with either **fi'u** or **tsa'u** to anchor the phrase in the main clause. This is common enough that certain combinations of pronoun and attributive particle contract (see §3.4.2).

6.18.5.1. Just as in a relative clause, the anchor pronoun is inflected to match its role in the main clause. For example, in the subjective (**fwa**) as the intransitive subject of **lu**:

Law lu oeru fwa nga mì reltseo nolume nìtxan. It is clear to me that you have learned much in art.	${\cal F}$
In the topical (a fi'uri) with irayo si:	
Ngal oeyä 'upxaret aysuteru fpole' a fi'uri, ngaru irayo seiyi oe nìtxan. I thank you very much for sending my message to people.	${\cal F}$
As the direct object (futa) of the verb omum:	
Ulte omum oel futa tìfyawìntxuri oeyä perey aynga nìwotx. And I know that you all are waiting for my guidance.	${\cal F}$

**6.18.5.2.** Very often particular verbs and idioms will require a particular clause nominalization. For example, subclauses with **omum** *know* will generally take an accusative clause (usually **futa** or **a fi'ut**).

6.18.5.3. Clauses may also be nominalized with forms of tsa'u. The difference between fi'u and tsa'u is that the tsa'u form can be used when the clause it anchors refers to something old in the discourse, something which has been previously discussed. This subtlety is not required, however, and forms in fi'u are never wrong. Wiki (18/6/2010)

Forms from tsa'u can also be used when there are contrasting clauses,

(19) Oel new futa fo kivä, slä sa'nokil new tsata fo 'ivi'awn. oe-l new futa ay-po k<iv>ä, slä sa'nok-il new tsata ay-po '<iv>i'awn 1sG-AGT want that PL-3.AN go<suBJ>, but mother-AGT want that PL-3.AN stay<suBJ> I want them to go, but mother wants them to stay.

Forum (25/2/2022)

6.18.5.4. The noun tikin *need* is used with an attributive clause for the idiom "need to," **awngaru**  $\mathcal{F}$  **lu tikin a nume ni'ul** *we need to learn more* (literally, "we have the need to learn more"). It can also be used impersonally, **lu tikin a** ... *there is a need to/for* ...

6.18.6. Nominalized Clauses with Adpositions. Nominalized clauses may be used with some adpositions, giving sense that match certain English conjunctions and gerund clauses. Oe ke tsun stivawm fayfneli'ut luke fwa sngä'i tsngivawvik *I cannot hear such words without starting to cry*. Forum (18/6/2010)

**6.18.7.** Nominalizations as Conjunctions. There are a few Na'vi constructions involving nouns and the attributive particle that do what English uses conjunctions for. Because of this, what appear to be identical conjunctions have two forms — one for when the conjunction comes at the end of a clause, and one for when it comes at the start. Often these phrases have contracted into one word, sometimes with sound changes.

	At the start	At the end	
after	mawkrra	akrrmaw	from maw krr a
because	talun(a)	alunta	from <b>ta lun a</b>
because	taweyk(a)	aweykta	from <mark>ta oeyk</mark> a
when	krra	a krr	
that (as a result)	kuma	akum	
<i>since</i> (from the time)	takrra	akrrta	from <b>ta krr a</b>

NT (31/3/2012) NT (19/6/2012)

Tì'eyngit oel tolel a krr, ayngaru payeng when I receive an answer, I will let you know could also  $\mathcal{F}$  be krra tì'eyngit oel tolel, ... Wiki (1/2/2010) Wiki (1/2/2010) NT (15/8/2011)

#### 6.19. Conditional Sentences

Na'vi conditional sentences are introduced with the conjunction **txo** *if* for the condition, and the consequent optionally by **tsakrr** *then*.

**6.19.1.** General. General conditions describe situations that are commonly or generally true, such as "if it doesn't rain, plants and animals suffer." In Na'vi, a general condition takes txo with the subjunctive in the condition and a non-future indicative in the consequent, txo fkol ke fyivel  $\mathcal{F}$  uranit paywä, zene fko slivele *if one does not seal a boat against water, one must swim.* NT (19/6/2012)

6.19.2. Future Conditional. In English future conditionals have the present tense in the condition and the future in the consequent, "If you do this, I will do that." In Na'vi, the condition takes the subjunctive and the consequent takes the future, pxan  $\underline{\text{l}}_{\underline{\text{v}}\underline{\text{v}}\underline{\text{v}}}$  u txo ni'aw oe ngari / Tsakrr nga  $\mathcal{F}$  Na'viru yomt $\underline{\text{v}}\underline{\text{v}}\underline{\text{v}}\underline{\text{ing}}$  Only if I am worthy of you / Will you feed the People.

**6.19.3.** Use of the Subjunctive. The use of the subjunctive in the txo clause depends on the status of the condition. That is, if the speaker knows for certain that a situation holds, when txo has a bit of meaning "since," then the subjunctive is not required. For example, in ex.20 the speaker does not really know if the person they are talking to is tired.

(20) **Txo nga ngeyn 'ivefu, tsurokx.** txo nga ngeyn 'iv>efu, tsurokx if you tired <suBJ>feel, rest If you're tired, rest.

But if the speaker has heard someone say that they're tired, they can drop the subjunctive, as in ex.21,

(21) **Txo nga ngeyn 'efu, tsurokx.** txo nga ngeyn 'efu, tsurokx if you tired feel, rest *Since you're tired, rest.* 

When to use the subjunctive is somewhat flexible, and there will be situations where either use can be justified. Forum (14/1/2022)

**6.19.4.** Contrafactual. Contrafactual questions use a separate set of conjunctions, **zun** *if* and **zel** *then*. The subjunctive is used in both clauses, with the following tense senses:

Past	Present	Future
<imv>, <ilv></ilv></imv>	<iv>, <irv></irv></iv>	<iyev></iyev>

So, for present situations the bare subjunctive or the imperfective subjunctive is used, for past situations the past or perfective subjunctive is used, and finally for future situations the future subjunctive is used (see §3.6.3 for the infix forms).

Zun oe yawne livu ngar, zel 'ivefu oe nitram nì'aw.	${\cal F}$
If you loved me, I would be so happy.	
Zun oe yawne limvu ngar, zel 'imvefu oe nitram nì'aw.	${\cal F}$
If you had loved me, I would have been so happy.	
Zun tompa zìyevup trray, zel fo srìyevew.	${\cal F}$
If it rained tomorrow, they'd do a dance.	
Zun ayoe livu tsamsiyu, zel tsakem ke simvi.	${\cal F}$
If we were warriors, we wouldn't have done that.	

When the time of both clauses is the same, and only then, the verb in the **zel** clause may take the bare verb, without the subjunctive,

Zun oe yawne livu ngar, zel 'efu oe nitram nì'aw.	${\cal F}$
If you loved me, I would be so happy.	
Zun oe yawne limvu ngar, zel 'efu oe nitram nì'aw.	${\cal F}$
If you had loved me, I would have been so happy.	
Zun tompa zìyevup trray, zel fo srew.	${\cal F}$
If it rained tomorrow, they'd do a dance.	

#### NT (4/30/2013)

**6.19.5**. **Hypothetical**. Using **zun** *if* and **zel** *then* with the untensed subjunctive forms hypothetical conditions. Note the difference between the following two examples:

(22) Zun ngal oey tsmuket tsive'a, zel am'aluke ivomum futa poe nga'prrnen. zun nga-l oe-yä tsmuke-t ts<iv>e'a, zel am'aluke <iv>omum futa poe nga'prrnen if 2sg-AGT 1sg-GEN sister-PAT see<sUBJ>, then certainly know<sUBJ> that she pregnant If you saw my sister, you would certainly know she was pregnant.

 $\mathcal{F}$ 

(23) Zun ngal oey tsmuket tsimve'a, zel am'aluke imvomum futa poe nga'prrnen. zun nga-l oe-yä tsmuke-t ts<imv>e'a, zel am'aluke <imv>omum futa poe nga'prrnen if 2sG-AGT 1sG-GEN sister-PAT see<PST.SUBJ>, then certainly know<PST.SUBJ> that she pregnant If you had seen my sister, you would certainly have known she was pregnant.

Notice that ex.22 uses the plain subjunctive, and is translated as an imaginative hypothetical. Ex.23 is just usual counterfactual form, using past subjunctives in both clauses. NT (28/2/2024)

**6.19.6.** Imperatives in Conditions. When imperatives are used as the consequent of a condition, imperative mood and syntax rules override the normal conditional patterns. For example, a future conditional with imperative consequent, txo tsive'a ayngal keyeyt, rutxe oeru piveng *if you see*  $\mathcal{F}$  *errors, please tell me.* 

## 6.20. Conjunctions

This section lists conjunctions that have not been discussed elsewhere, but which still deserve mention in some way. I omit conjunctions that require no special comment.

**6.20.1.** Alu. The primary use of alu is for nouns in apposition, tskalepit oel toling oeyä tsmu- $\mathcal{F}$  kanur alu Ìstaw *I gave the crossbow to my brother Istaw*. Note that the noun after alu is in the subjective case. NT (16/7/2010)

6.20.1.1. Alu may also be used conversationally to mark a restatement, like "that is to say," or "in other words." Txoa livu, yawne lu oer Sorewn... alu... ke tsun oeng muntxa slivu Sorry, but *F* I love Sorewn... in other words, you and I cannot marry.

6.20.1.2. In discussions of grammar and language, alu can clarify the word or construction you're speaking about, tsalsungay tsali'u alu zeykuso lu eyawr nonetheless, that word, namely  $\mathcal{F}$  zeykuso, is correct, li'uri alu tskxe pamrel fyape? how do you spell the word 'tskxe'?  $\mathcal{F}$ 

**6.20.2.** Ftxey. In addition to forming yes-no questions (ftxey... fuke, §6.14.2), ftxey can be used to enumerate whether... or... options, silpey oe, ... frapo – ftxey sngä'iyu ftxey tsulfätu – tsiyevun  $\mathcal{F}$  fitsenge rivun 'uot lesar I hope ... everyone – whether beginner or expert – will be able to find something useful here.

**6.20.3.** Fu. The conjunction fu, or, may be used to combine either noun phrases or verb phrases. Ke zasyup li'Ona ne kxutu a mìfa fu a wrrpa The l'Ona will not perish to the enemy within or  $\mathcal{F}$  the enemy without; rä'ä fmivi livok fu emkivä ayekxanit a fkol ngolop fpi sìkxuke ayfrrtuä sì  $\mathcal{F}$  ayioangä do not attempt to approach or cross any barriers designed for Guest and animal safety.

6.20.3.1. For a choice statement, use fu once. For a choice question, use fu twice, before each of the two choices. Nulnew oel fi'ut fu tsa'ut *I* want this or that vs. nulnew ngal fu fi'ut fu tsa'ut?  $\mathcal{F}$  Do you want this, or do you want that? What's your choice?  $\mathcal{F}$ 

**6.20.4.** Ki. The conjunction ki, *but rather, but instead*, is paired with the negative adverb ke. Take care to distinguish this from slä *but*. Nga plltxe ke nìfyeyntu ki nì'eveng *you speak not like*  $\mathcal{F}$  an adult but a child. NT (16/7/2010)

**6.20.5.** Sì. The conjunction sì and is used for making lists and combining elements of the same idea. It is not used to join clauses, which is the job of ulte (§6.20.9). Lu pìlokur pxesìkan sì  $\mathcal{F}$  pxefne'upxare the blog has three needs and three sorts of message, ma smukan sì smuke brothers  $\mathcal{F}$  and sisters.

6.20.5.1. Though sì is most often found joining noun phrases, pronouns and adjectives, it can join verbs that are closely related, sänume sivi poru fle pivlltxe sì tivìran nìayoeng teach him to A

## speak and walk like us.

6.20.5.2. Clauses that have been nominalized, such as with **fwa**, **futa**, etc. (§6.18.5), may be joined to a list of nouns with sì, too, as in **sunu poru syulang sì mauti sì fwa tswayon yaka** *he likes flowers, fruits, and to fly through the air.* Wiki (23/1/2018)

6.20.5.3. Sì can also be enclitic (§2.1.5.3). In that situation it follows the word or phrase it is joining to the list, ta 'eylan karyusi ayngeyä, Pawl from your friend and teacher, Paul, tsakrr  $\mathcal{F}$  paye'un sweya fya'ot a zamivunge oel ayngar ayli'ut horentisi li'fyayä leNa'vi and I will then  $\mathcal{F}$  decide the best way to bring you the words and rules of Na'vi.

**6.20.6.** Tengkrr. The sense of tengkrr, while, the same time as means that is usually used with the imperfective, fitxon yom tengkrr teruvon on this night (we) eat while leaning. Wiki (14/3/2010)  $\mathcal{F}$ 

**6.20.7.** Tik. This adverb meaning *immediately*, *without delay*, can also be used as a conjunction indicating that a second action immediately follows a first, **filoang ke tsun slivele**; **nemfapay zup**  $\mathcal{F}$  **tik spakat** *this animal cannot swim; (if) it falls into the water, it immediately drowns*. NT (31/12/2021)

**6.20.8.** Tsnì. The conjunction tsnì *that* introduces some kinds of report clause, ätxäle si tsnì livu oheru Uniltaron I respectfully request the Dream Hunt, sìlpey oe tsnì fitìoeyktìng law livu  $\mathcal{F}$  ngaru set I hope that this explanation is clear to you now. NT (20/2/2011)

6.20.8.1. Verbs known to take tsnì: ätxäle si, rangal (a marginal use), sìlpey, la'um, mowar si, fe'pey, leymfe', leymkem, srefey, and srefpil. Some verbs, such as sìlpey *hope*, require the tsnì clause to take the subjunctive, while others, such as la'um *pretend*, will not take the subjunctive. The dictionary is the best place to verify. Forum (18/8/2011) NT (1/3/2020)

6.20.9. Ulte. This conjunction connects clauses, oel ngati kameie, ma tsmu-kan, <u>ulte</u> ngaru seiyi irayo *I* see you, brother, and thank you. Do not confuse with sì (§6.20.5).

### 6.21. Direct Quotation

6.21.1. San... sik. Na'vi does not have indirect quotes (*He said that they were gone*), but instead uses direct quotation, with the quoted words put between the particles san and sik, as in slä ni'i'a  $\mathcal{F}$  tsun oe pivlltxe san Zola'u niprrte' ne pilok Na'viteri sik! but now I can finally say "welcome to the blog Na'viteri." NT (31/8/2011)

**6.21.1.1.** If the beginning or end of a quotation coincides with the beginning or end of an utterance, one or the other of the **san**... **sìk** pair can be dropped.

Poltxe Eytukan san oe kayä sik, slä oel pot ke spaw.
 Eytukan said he would go, but I don't believe him.
 Poltxe Eytukan san oe kayä.

Eytukan said he would go.

In (2), since nothing is said after the quote, there is no need to close the quotation with sik. Similarly, san can be dropped if there no serious ambiguity, frawzo sik, slä oel poet ke spaw (she  $\mathcal{F}$  said) "all's well," but I don't believe her. Wiki (21/1/2010) Forum (4/8/2020) **6.21.2.** Questions. Reported questions are also quoted directly, polawm po san srake Säli holum  $\mathcal{F}$  sik *he asked whether Sally left*, literally *he asked*, "*did Sally leave*?" Wiki (24/3/2010)

6.21.2.1. With pawm, but not other verbs of speaking, san... sìk may be dropped, Polawm po,  $\mathcal{F}$  Neytiri kä pesengne? *he asked where Neytiri was going*. NT (31/8/2011)

**6.21.3.** Transitivity. When a verb of speaking uses san... sìk it follows intransitive syntax, po poltxe san srane *she said "yes."* Ultxa (2/10/2010)

6.21.3.1. When the speaking verb has a direct object, it follows transitive syntax, ke poltxe pol  $\mathcal{F}$  tsayli'ut she didn't say that, oel poru pasyawm tsat I will ask him that. NT (31/8/2011)

**6.21.4.** Quotation Nominalization. In addition to the san... sìk pair, reported speech may be anchored to the nouns fmawn *news*, tì'eyng *answer* and faylì'u *these words* with the attributive a (see §3.4.3 for contractions). NT (31/8/2011)

Verb	Quotation
plltxe say	san sìk, faylì'u
stawm hear, peng tell	fmawn
pawm ask	<b>san sìk, tì'eyng</b> , nothing
vin ask (for)	tì'eyng

The quotations attached to these are still in the direct form,

Poltxe pol fayluta oe new kivä. She said she wanted to go.	${\cal F}$
Lit., "she said, 'I want to go."	
Ngal poleng oer fmawnta po tolerkup. You told me that he died.	${\cal F}$
Volin pol ti'eyngit a Neytiri kä pesengne.	
He asked where Neytiri was going.	

6.21.4.1. Other verbs introducing indirect questions may use ti'eyng nominalizations,

Ke omum oel teyngta fo kä pesengne.	${\cal F}$
I don't know where they're going.	
Teynga lumpe fo holum ke lu law.	${\cal F}$
It's not clear why they left.	

**6.21.4.2.** And commands (with the verb **kxìm** *command*, *order*, *assign a task*) take a reduced form of **tsonit a** *a duty to/which...*, namely **tsonta**,

(24)	Ayevengur	kxolìm	sa'nokìl	tsonta	payit	zamunge.	
	ay-eveng-ur	kx <ol>ìm</ol>	sa'nok-ìl	tsonta	pay-it	zamunge	
	PL-child-dat	command. <pfv></pfv>	mother-AGT	task.that	water-pat	bring	
	The children	1 were told by	their moth	er to feto	ch water.		$\mathcal{F}$

NT (2/10/2014)

#### 6.22. Particles

**6.22.1.** Ko. The sentence-final particle ko is used to solicit agreement of various sorts, including such senses as "let's," "don't you think?," "why don't you? why don't I?" Often heard in the film, makto ko *let's ride*.

6.22.1.1. In the special case of **siva ko** *rise to the challenge*, the phrase can be written as a single word: **sivako**. NT (3/8/2019)

6.22.2. Nang. This particle marks surprise, exclamation or encouragement. It is always sentencefinal and appears with adverbs of degree or approbation, such as ningay, nitxan, fitxan, etc. Txantsana sipawm apxay fitxan lu ngaru nang! you have so many excellent questions! Ngari  $\mathcal{F}$ tswintsyip sevin nitxan lu nang! what a pretty little queue you have!

**6.22.3.** Pak. This particle follows the word or phrase it goes with and marks disparagement, tsamsiyu pak! *a warrior? yeah, right!* 

- (25) Poan pak?! Ke lu po tsamsiyu kaw'it! 3sg.masc DISPAR! not be 3sg warrior a.bit Him?! There's not a warrior's bone in his whole body!
- (26) Tsaw ke ley kaw'it pak! that not worth a.bit DISPAR That's not worth a thing!

Normally **pak** goes with a single noun or pronoun you want to disparage, but it can be used in a looser way to disparage a whole idea or situation, as in ex.26. It is always sentence final.

Using <**äng**> with **pak** is stylistically disfavored, since **pak** on its own is sufficient to indicate your unhappiness. NT (31/3/2014) Forum (6/8/2010) Forum (16/6/2023)

6.22.4. Tut. This is a particle of continuation, so far only seen in pick-up questions in dialogs,

A: Ngaru lu fpom srak? *How are you?* B: Oeru lu fpom. Ngaru tut? *I'm well. You?* 

**6.22.5.** Tse. This particle is a marker of conversational hesitation, *well*. In English "well" relates to felicity conditions in divergent ways.

## 6.23. Other Notable Words

**6.23.1.** Sweylu. The syntax of this verb meaning "should" (from swey lu *it's best*) changes depending on whether the obligation refers to something that has not yet happened or if it refers to an event that has already taken place.

6.23.1.1. To refer to the future, txo with the subjunctive is used, sweylu txo nga kivä or nga  $\mathcal{F}$  sweylu txo kivä for <u>you</u> should go. Note that the negative is in the txo clause, sweylu txo nga ke  $\mathcal{F}$  kivä or nga sweylu txo ke kivä you shouldn't go.

 $\mathcal{F}$ 

 $\mathcal{A}$ 

**6.23.1.2**. For something that has already happened, use **fwa** or **tsawa** with a past or perfective indicative,

Tsenu: **Spaw oe, fwa po kolä längu kxeyey.** *I believe it was a mistake for him to go/have gone.* 

Kamun: Kehe, kehe! Sweylu fwa po kolä! No, no! He should have gone!

Note that this refers to a past event that did happen and was the right thing to do, not an unfulfilled past action (which is another use of "should" in English). NT (5/4/2011)

 $\mathcal{F}$ 

## 7. Pragmatics and Discourse

In previous chapters I have discussed sounds, words and sentences in Na'vi. Much of that discussion took the form of rules. This chapter is devoted to language one step higher than even the sentence — conversation, narrative and the contexts in which language takes place, what linguists group together under the name pragmatics. Simple rules are harder to come by here, so the discussion necessarily takes a slightly different structure.

## 7.1. Constituent Order

7.1.1. Free Word Order. Na'vi has been described as having free word order. This is a little misleading since that phrase means something quite specific to linguists. Rather, Na'vi has free constituent order.<sup>1</sup> Within constituents, word order may be quite constrained. You cannot stick part of one constituent into the middle of another. For example, in **ayoel tarmaron tsawla yerikit** *we were hunting a large hexapede*, I cannot break apart the direct object constituent **tsawla yerikit** and produce things like \*tarmaron tsawla ayoel yerikit or \*ayoel tsawla tarmaron yerikit. We will continue to use the "free word order" terminology here, but keep constituency in mind.

7.1.1.1. In complex constituents it is possible for a genitive to be separated from its noun by a relative clause,

(27) ngeyä teri faytele a aysänumeri nga-yä teri fi-ay-txele a ay-sänume-ri 2SG-GEN about this-PL-matter REL PL-teaching-TOP concerning your instructions about these matters

7.1.2. SOV, SVO, VSO. Many human languages can conveniently be categorized based on their default word order for subject, verb and direct object, usually shortened to just s, v and o. English

<sup>&</sup>lt;sup>1</sup>A *constituent* is a slightly bigger building block than the word, but smaller than a sentence. A constituent is a group of words that function as a single grammatical unit. For example, in the sentence, "the big bad wolf ate Little Red Riding Hood's grandmother," the phrase "the big bad wolf" is one consituent acting as the subject, the verb "ate" stands on its own and "Little Red Riding Hood's grandmother" is the direct object constituent. Sometimes a constituent can be a single word ("he ate her" — each word a constituent) and sometimes they can be quite a lot more complex.

is mostly an svo language, Japanese is sov. Free word order languages are not easily categorized into this system, though some do have tendencies worth noting.<sup>2</sup> NT (19/3/2011)

Another term sometimes used for free word order languages is "discourse configurational" languages. This rather technical term simply means that features of discourse determine word order choice, rather than grammar in the strictest sense. In particular, while we speak we are constantly adjusting the flow of information so that the listener understands not only what information is new and what is important, but how it fits into what has gone before. A very simplified scheme for saying a few sentences to a listener will go like this:

Sentence 1:  $[\dots new_1]$ Sentence 2:  $[old_1 \dots new_2]$ Sentence 3:  $[old_2 \dots new_3] \dots$ 

Note that every new item introduced into the conversation is old information in subsequent sentences. English uses several constructions to signal old information, including the definite article, *the*, as well as more complex structures like the passive voice.

Na'vi tends to mark old information by moving it to the head of the clause. Here is a collection of examples from the dialog in the first *Avatar* film:

pot lonu	let him go	ov
tsaswiräti lonu	let that creature go	ov
fiswiräti ngal pelun molunge fitsenge?	why did you bring this creature here?	osv
pot tsun oe tspivang nìftue	I could kill him easily	ovs
ikranti makto	take the ikran	ov
ma sempul, ngati oel kin	father, I need you	osv
ma 'ite, tskoti munge	daughter, take the bow	ov
Omatikayaru tìhawnu sivi	protect the people	ov
fra'ut fkol skera'a	everything is being destroyed	osv
fkol pole'un fì'ut	this has been agreed	svo

Note that certain kinds of words are considered old information by default, just because of their meaning. In particular, personal pronouns (as in **pot lonu**), personal names, demonstrative pronouns (**fi'u**, **tsa'u**), as well as nouns with the demonstrative prefixes (as in **tsaswiräti lonu**). This will explain why so many of the examples have pronouns and demonstratives at the start.<sup>3</sup>

Notice how I have translated the fronted nouns, such as **tskoti munge** *take the bow*. I use the definite artlce, *the*, because that's the major way English marks old information. Also note that it's not just patientive nouns (objects) that are moved to the front. The dative can be, too, as in **Omatikayaru tihawnu sivi**. Similarly, a pronoun with an adposition can be fronted, **eo ngenga**  $\mathcal{A}$  **kllkxem ohe** *I stand before you* (PP v s).

 $<sup>^{2}</sup>$ In an earlier version of this document there was a tally of word orders used in a few of Frommer's early larger texts. That was useful to establish that every word order is possible, but didn't explain *why* this or that order was chosen. As of July 2023 we have better information on the reasons, so I have dropped the table.

<sup>&</sup>lt;sup>3</sup>Nouns with possessive pronouns are often considered old information, too. An example from Frommer's blog, ayngeyä aysiralpengit ngop ni'o'!

Finally, Frommer has emphasized that while fronting old information is common (probably more than 50% of the time), this fronting is a stylistic choice. Not fronting old information is not a grammatical error. It is likely that some sentences will have several pieces of old information, in which case the most relevant can be selected for fronting. If a sentence has both a personal pronoun and a definite noun (especially those marked with **fi**- and **tsa**-), it does seem that the noun is more likely to be fronted than the pronoun (*e.g.*, **fiswiräti ngal pelun molunge fitsenge** and **fiketuwongti oel stiyeftxaw**). Forum (9/7/2023)

 $\mathcal{A}$ 

7.1.2.1. Although generations of English teachers have convinced many people that the passive voice is weak and flimsy, it is in fact simply one tool English uses to organize information clearly for listeners. The passive lets us bring the patient of some action to prominence by moving it to the head of the sentence. If we say, "the nun was run over by a car" we're communicating to our listeners that the nun is the most salient part of the sentence, and that the exact vehicle is less a concern.<sup>4</sup> Na'vi does not have a passive voice, but Frommer has suggested the word order osv, that is, fronting the patient, as one way to communicate the same effect (but see also **fko**, §6.3.4.2).

**7.1.3.** Focus. Since free word order languages do not use word order for syntax, they are free to use it to indicate other things, such as style, emphasis and focus. One rule from Frommer about word order is, "the end of the sentence is where the 'punch' comes." We can take this to mean that if you wish to emphasize a constituent, put it at the end of the clause.

(28) Fayvrrtep fitsenge lu kxani.	
fi-ay-vrrtep fitsenge lu kxanì	
this-pl-demon here be forbidden	
These demons are <u>forbidden</u> here.	$\mathcal{A}$
(29) Nì'ul kame tskxe.	
nì'ul kame tskxe	
more see rock	
A rock sees more.	$\mathcal{A}$
Notice in particular how Frommer translates these sentences:	
Fkxilet a tsawfa poe ioi säpalmi ngolop <u>Va'r</u> ul.	${\cal F}$
	<i>J</i> ~
Va'ru is the one who created the necklace she was wearing.	
Ke sunu ngar teylu srak? Txotsafya, tìng oeru pumit ngeyä!	F
You don't like teylu? If that's the case, give me yours.	•
The focused, salient part of the answer to a question is similarly moved to the end of the clause:	

Spaw oel futa Mo'atìl tsole'a Neytirit.	$\mathcal{F}$
I believe Mo'at saw Neytiri.	

#### Kehe. Tsole'a Neytirit Eytukanil.

No. The one who saw Neytiri was Eytukan.

In English such focus can also be handled by emphasizing a particular word with stress, *Eytukan saw Neytiri*. NT (19/3/2011)

 $\mathcal{F}$ 

 $\mathcal{F}$ 

7.1.4. Word Order Effects. Changes in word order can sometimes cause changes in grammar.

7.1.4.1. If a sentence is ordered such that a modal and its controlled, transitive verb are contiguous, and the subject and direct object are contiguous, the modal and verb combination may be reanalyzed as a single transitive verb. For example, **oe teylut new yivom** *I* want to eat teylu  $\mathcal{F}$ has the expected, correct case use, with the subject of the modal in the subjective case, the direct object in the patientive case (§6.8.3). However, in a few word orders the subject may be put in the agentive case. In decreasing order of acceptability:

<u>Oel</u> teylut new yivom.	widely acceptable <sup>5</sup>
Teylut <u>oel</u> new yivom.	about 50% acceptable
New yivom teylut <u>oel</u> .	about 30% acceptable
*New yivom oel teylut.	completely unacceptable

NT (19/3/2011)

## 7.2. Topic-Comment

The topic-comment construction is conceptually straightforward: the "topic" announces what the rest of the sentence relates to, and the comment makes some statement relating to that topic. While plenty of Human languages organize discourse heavily around topic-comment structure, English is not one of them. This can make it difficult to present decent translations of topiccomment structures that are both true to the meaning of the original but which also make clear the structure under discussion. In this section I'll often use prepositional phrases with "as for" and "concerning" for all examples, but this is a clunky work-around, used only for clarity.

**7.2.1.** Topical Case. In Na'vi only nouns, noun phrases and pronouns can be topics. These are marked with the topical case (-ri, -ìri). More complex topics can be created with nominalized clauses (§6.18.5).

**7.2.2.** Topical Role. The topic can be especially confusing for those unfamiliar with it because almost any syntactic role in a sentence may be pulled out of the sentence to be the topic. One idiomatic use is marking inalienable possession (§6.4.6.3). But you can use the topical where English would simply use a direct object:

Fayupxare layu aysngä'iyufpi, fte <u>lì'fyari awngeyä</u> fo tsìyevun nìftue nìltsansì nivume.

These messages will be for beginners so that they can learn our language easily and well.

<sup>&</sup>lt;sup>4</sup>In English, we can even omit the agent of a passive altogether, "the nun was run over."

<sup>&</sup>lt;sup>5</sup>According to Frommer's blog, "...in all but the most formal situations."

But the relationship between the topic may not match a strict syntactic role, too:

Ma oeyä eylan, faysänumviri rutxe fi'ut tslivam: My friends, <u>concerning these lessons</u> , please understand this:	${\cal F}$
Ayngeyä sìpawmìri kop fmayi fitsenge tivìng sì'eyngit. <u>As for your questions</u> , (I) will also try to give answers (for them) here.	${\cal F}$

7.2.2.1. A topic may introduce a complex sentence, coming before even a leading conjunction,

Fori mawkrra fa renten ioi säpoli holum. After they put on their goggles, they left.

7.2.2.2. Similarly, a topic may apply for multiple comments,

Poeri uniltirantokxit tarmok a krr, lam stum niayfo, slä lu 'a'awa tiketeng – natkenong,  $\mathcal{F}$ tsyokxiri ke lu zekwä atsing ki amrr.

 $\mathcal{F}$ 

As for her, when she inhabited an avatar, she was almost like them, but there were a few differences – for example, as for her hand there were not four fingers but five.

7.2.3. Using the Topical. Each human language has its own rules and tendencies about when the topical should be used. At this stage it is a little difficult to set rules for this, but a few tendencies can be drawn from what we have seen so far. First, so far Frommer has not used topic-comment constructions nearly as often as it is used in Chinese or Japanese (both topic-prominent languages, though each in their own way). Second, Frommer does not use the topical to introduce new matters for discussion, rather topics refer to current matters, or matters which are readily inferable from the conversation.

English uses the definite article, *the*, to mark information that has already been introduced into discourse, as well as information that can be assumed or deduced from the conversation. For example, if I say, "I wanted to see *Avatar*, but the line was too long," I can use the definite article with *line* not because we've been talking about lines, but because standing in line is something we're used to when seeing a popular film. In comments on a recent blog post<sup>6</sup> Frommer says,

But if the message is indefinite, the topical case doesn't work as well, since topics are usually definite. So 'upxareri ngaru pamrel soli trram can certainly mean *I wrote you THE message yesterday*. Can it also mean *I wrote you A message yesterday*? Since there are no articles per se in Na'vi and nouns can be either definite or indefinite, I guess it could. But something about it rubs me the wrong way.

It seems best to avoid truly indefinite topicals.

<sup>&</sup>lt;sup>6</sup>A Na'vi Alphabet, August 20, 2010

### 7.3. Register

7.3.1. Formal Register. Na'vi has two main ways to mark ceremonial or formal speech: with special pronouns ( $\S$ 3.2.2) and with the verb affect infix  $\langle uy \rangle$  ( $\S$ 3.6.4).

(30) Muntxatul ngengeyä tuyok pesenget? muntxatu-l ngenga-yä t<uy>ok pe-tsenge-t spouse-AGT 2FORM-GEN be.at<FORM> what-place-ACC Where is your spouse?

It isn't necessary to always use the formal infix  $\langle uy \rangle$  with the formal pronouns, nor is it required to use the formal pronouns with all uses of  $\langle uy \rangle$ . It is most formal when both are used, and somewhat less formal when only one is. NT (28/2/2022)

7.3.1.1. The formal pronouns may be used in close succession, Sìfmetokit emzola'u ohel. Ätxäle si tsnì livu oheru Uniltaron I have passed the tests. I respectfully request the Dream Hunt.

7.3.1.2. Like the tense and aspect markers, it is not necessary to repeat the infix  $\underline{uy}$  once a formality context has been established.

7.3.1.3. Solemnity or sincerity of a statement may be shown by using both pronoun and verb formality marking,

(31)	Faysulfätuä	tìkangkem	oheru	meuia	luyu	nìngay.
	fì-ay-tsulfätu-ä	tìkangkem	ohe-ru	meuia	l <uy>u</uy>	nìngay
	this-pl-expert-gen work		1sg.form-dat honor		be <form></form>	truly
	The work of these experts is truly an honor for me.					

#### 7.3.2. Poetic Register.

7.3.2.1. In prose the topical will come first in its clause or immediately after a conjunction (§6.4.6.1). In verse, it may move deeper into the clause structure, **pxan livu txo nì'aw oe ngari** /  $\mathcal{F}$  tsakrr nga Na'viru yomtìyìng only if I am worthy of you will you feed the people.

7.3.2.2. In normal prose, when an adposition comes before the noun or noun phrase, any genitive must also come after the adposition, as in **fa oeyä tsyokx** or **fa tsyokx oeyä** *with my hand*. In poetry, the genitive may also come before the adposition, **oeyä fa tsyokx**. Wiki (17/3/2012)

7.3.2.3. In day-to-day speech a modal verb must come before its controlled verb (§6.8.3.1). In poetic or ceremonial language, the modal may follow. NT (3/19/2011)

**7.3.3.** Colloquial Register. The colloquial register presents itself mostly in simplified grammar or abbreviated expression.

7.3.3.1. Verbs of cognition may introduce a subclause without any conjunction.

I believe it was a mistake for him to have gone. Spängaw oel futa fwa po kolä lu kxeyey. Colloquial: Spaw oe, fwa po kolä längu kxeyey.

NT (5/4/2011)

 $\mathcal{F}$ 

 $\mathcal{F}$ 

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F

7.3.3.2. In casual conversation the reflexive perfective of **si**-construction verbs, **säpoli**, is often pronounced **spoli**. NT (3/8/2011)

7.3.3.3. The conjunction tìk (§6.20.7) can be used when a second event is an immediate consequence of the first. This can replace some uses of conditional txo, as in tsatxumit näk tìk terkup  $\mathcal{F}$  if you drink that poison, you'll immediately die. NT (31/12/2021)

7.3.3.4. A few words can be omitted in colloquial speech, though there is no requirement for them to be dropped: lu, tok, and pum. In Reef Na'vi lu is often omitted. NT (5/5/2023)

More formal: Nga lu pesu? Who are you? More colloquial: Nga pesu? Who are you?	${\cal F} {\cal F}$
More formal: <b>Pol tok pesenget?</b> <i>Where is he?</i> More colloquial: <b>Pol pesenget?</b> <i>Where is he?</i>	$\mathcal{F} \ \mathcal{F}$
More formal: <b>Fìtsko lu pum oeyä</b> . <i>This bow is mine.</i> More colloquial: <b>Fìtsko lu oeyä.</b> <i>This bow is mine.</i>	${\cal F} {\cal F}$

Note that because **tok** is transitive, the agentive and patientive endings are still required in **pol pesenget?** The verb '**efu** *feel* is not droppable in this way. NT (30/4/2021) Forum (25/10/2022)

**7.3.4.** Slang. At the request of the community, Paul Frommer approved some constructions deviating from standard grammar that could be used as 'slang' among the Na'vi in informal contexts, or as a way to have fun with the language.

7.3.4.1. The attitude infixes <ei> and <äng>, normally used in verbs, may be inserted into srane *yes* and **kehe** *no* instead of using adverbs to express a mood. Following the common pattern in verbs, the attitude infixes go into the second syllable (§3.6.4), sran<äng>e, keh<ei>e. Forum (19/04/2020)

7.3.4.2. Proper names may form a compound verb with **si** to express *do as X* as an extension to the current formation method of these verbs. Forum (19/04/2020)

7.3.5. Clipped Register. In military settings certain features of grammar can be modified or omitted for brevity.

7.3.5.1. In noun phrase utterances, participles may go with their noun without using the attributive affix -a- (§6.9.1), tikan tawnatep *target lost* (from the video game). Wiki (21/5/2010)

7.3.5.2. Some pronoun genitives lose the final -ä, see §3.2.1.7. This may be used casually, in non-military situations, among friends or close acquaintances. Wiki (21/5/2010)

## 8. Semantics

This section discusses a few matters which already have descriptions spread out over the grammar and dictionary, but which it is useful to describe all in one place to make certain patterns clear.

## 8.1. The Copula and Predication

The main verb of noun and adjective predication is lu be, along with verb slu become.

Oe lu seykxel. I am strong. Oe slu seykxel. I become strong. Oe layu taronyu. I will be a hunter. Oe slayu taronyu. I will become a hunter.

**8.1.1.** Existence. The verb lu is also used to indicate existence, where English uses *there is, there are,* as in **äo fiutral lu tsmìm 'angtsìkä** *there is a hammerhead track under this tree;* frauvanìri lu  $\mathcal{F}$  yora'tu, lu snaytu *in every game, there's a winner and a loser.*  $\mathcal{F}$ 

**8.1.2.** Possession. Finally, lu is used with the dative to indicate possession, where English uses *to have*, as in lu oeru ayli'u frapor *I have something to say*, (lit., "I have words for everyone").

**8.1.3.** Becoming. Due to Na'vi's flexible word order, it could happen that the relationships between two nouns with the verb slu *become* would be unclear. In that situation, the adposition ne is used to clarify the target, taronyu slu ne tsamsiyu *the hunter becomes a warrior*.

**8.1.4.** Location. Na'vi has a separate verb, tok, for *be at*, which is used instead of simple lu for location predication,

(32) Awngal tok kelkut. awnga-l tok kelku-t we.INCL-AGT be.at home-PAT We're home.

 $\mathcal{F}$ 

Notice that the verb **tok** is transitive. It takes an agentive subject (**awngal**) and patientive for the location (**kelkut**).

**8.1.5.** Colloquial Omission. Both lu and tok can be omitted in colloquial speech (§7.3.3.4). The normal case relations remain as they were, such as **oe seykxel** *I'm strong* which omits lu, and **oel fitsengit** *I'm here* which omits tok. Lu is dropped more often in Reef Na'vi.

#### 8.2. Perception

Na'vi expressions of perception distinguish activity, sensation, and ability. Further, the verbs distinguish whether one is in control of the perception (*look at*) or if one is not (*see*).

	VTR	VTR	VIN	Ν	Ν
	-control	+control	+control	sensation	ability
sight	tse'a see	nìn look at	tìng nari look	' <b>ur</b> sight, look	tse'atswo sight, vision
hearing	stawm hear	yune listen to	tìng mikyun listen	pam sound	stawmtswo hearing
smell	hefi smell	syam smell	tìng ontu smell	fahew smell	hefitswo sense of smell
taste	ewku taste	may' taste	tìng ftxì taste	sur taste, flavor	ewktswo sense of taste
touch	zìm feel	'ampi touch	tìng zekwä	zir feel, texture	zìmtswo sense of touch

Take special note of the senses of smell and taste, where English uses the verbs *smell* and *taste* for quite a range of activities, Na'vi uses different words. To happen to catch a scent of something requires **hefi**, while smelling something on purpose will use **syam**.

The compound expressions with ting are mostly used when there is no overt direct object, ting nari! *look at that*! But they can be used with the dative for the thing perceived, poru ting  $\mathcal{F}$ nari! *look at him*! though poti nin! *look at him*! will be more common. NT (27/11/2012)  $\mathcal{F}$ 

**8.2.1.** Phenomena. To express the experience of phenomena the verb **fkan** is used with the sensation nouns. **Fkan** itself means something like *resemble in a sensory modality, come to the senses as.* 

(33)	Fìnaerìri	sur	fkan	oeru kalin.		
	fì-naer-ìri	sur	fkan	oe-ru kalin		
	this-drink-тор flavor come.to.the.senses I-DAT sweet					
	This drink tastes sweet to me.					

Note in ex.33 that the experiencer of the perception is in the dative. This can be omitted for general statements. The sense noun may also be omitted when a sense interpretation is obvious in the context.

Fkan is used with na *like* to make a comparison,

(34) Raluri fahew fkan oeru na yerik. Ralu-ri fahew fkan oe-ru na yerik Ralu-TOP odor come.to.the.senses I-DAT like hexapede Ralu smells like a hexapede to me.

Again, the dative experiencer and the sense noun can be omitted if the meaning is clear from context.

 ${\mathcal F}$ 

 $\mathcal{F}$ 

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## B. Changelog

Recent and notable updates:

• 1.33 (Mar 9 2024): tsonta form and example; hypothetical conditions.

1.32 (Jul 10 2023): usage of fi'u vs. tsa'u nominalizations; aylahe short forms; more pak examples, and a clarification; genitives of po derived pronouns (frapo, etc.); nì- is productive with pronouns; colloquial compounds in -tseng; PRO-drop section merged with subject dropping section; rewrote entire Constituent Order section; the usual collection of typo fixes, minor style changes, and additional citations and interlinears.
1.31 (Jan 22 2023): more examples in lenition section, rather than just links to sections; topical with srake; when to use subjunctive with txo; note on genitives of pesu, tupe; adjective pile-ups and adjective + relative order; clarify elision of final -e; can't drop 'efu colloquially; ceremonial pronoun updates (oheng, poho,

etc); **ye'rìn** redundant with proximal future; clarify productivity of **nì-**; more interlinearized examples; subject dropping; Reef Na'vi dialect.

• 1.30 (Oct 12 2022): new font; -tu clarifications; colloquial omissions; new section, Semantics, which has the copula, and perception; as always, more citation links; explain interlinears and introduce for some examples.

• 1.29 (Feb 7 2022): update CA license; declension of foreign words; reflexive of causative; tìk as conjunction; minor style changes and more links.

• 1.28 (Jan 1 2021): slang section added; many minor style and formatting tweaks; a good dose of example, citation, and indexing backfill; full set of tsa- conjunction contractions; visual version of legal syllable rules; productivity of -yu with si-verbs; clarification on omission of san or sik; refinement on use of pum; numbers after zam; -tsim compound element; modals that take futa section redone; syntax section for sno redone; sequential verbs with modal; dative in -ru with glottal stop

• 1.27 (Mar 5 2020): Edited section on tsnì to reflect new information.

• **1.26** (Oct 21 2019): added new **fu** subsubsection for choice questions; fixed two counts of typo for word "conjunction". Added new subsection for lenition of proper nouns.

• 1.25 (): negative polar questions; vocative location possibilities; **sunkesun** specifics; model syntax with **ke**; new modal verb

• 1.24 (Jan 26 2018): renamed "Punch" section "Focus," and added examples to it; notes about modal word order; reorganized "Register" section; various small formatting and style tweaks; example of **fu** with verb phrases; clarify forms of **tsa'u**, **tsaw**; Plumps' reported clarification on **sì**; firm statement from Paul about only 3rd. person antecedents for **sno**.

• 1.23 (Dec 17 2017): additional example sentences in the Syntax chapter; tidied section on -eyä genitives;

meanings of individual adpositions removed — we have good dictionaries for that, and I've added links. • 1.22 (Nov 28 2017): More citations; fiay+ vs. fay+; fray+ confirmed; difference between nì- and na/pxel with pronouns; nì- with ordinals; animals and po; mì in time expressions detail.

• 1.21 (June 2 2013): note modal syntax of **sto**; **kxamlä** example; clarification on diphthong declension; ADJ<sub>*i*</sub>-a N a-ADJ<sub>*i*</sub> construction; **-nay** derivation; **frafya**; free choice indefinites with **ketsran**; contrafactuals, **zun** and **zel**.

• **1.20** (Nov 29 2012): new meaning of **ìlä**; **akum/kuma** with **nìftxan** and **fìtxan**; general condition; clearer explanation of **srake**; note pronunciation of **säpoli** in casual conversation; "Affect and Evidence" section; say more about pronoun genitives.

• 1.19 (April 7 2012): note temporal use of mì; added a section on poetic register; new adp. sko; sna- and -tswo compound elements; clarify infix position in V-V compounds; krra not krr a; some detail on relative clauses and transitivity; rename "antipassive" section to "ambitransitivity," and add some more details from blog post; as always, some more citations.

• **1.18** (March 4 2012): **fitsap** with intransitives; intransitive reflexives; a bunch of typo fixes from LN.org member Blue Elf; contrastive demonstratives; new info on **sä**-; correlative comparisons; clean up reduplication section, with help from **ni'ul'ul** example.

• 1.17 (November 3 2011): widened margins a bit and added a toc; reciprocal w/ fitsap; conjectural questions; kam, kay, nuä; more citations.

• 1.08 (October 15 2010): Everything from the Language Workshop<sup>1</sup>

• 1.0 (Aug 13 2010): Initial release.

<sup>&</sup>lt;sup>1</sup>http://wiki.learnnavi.org/index.php/Canon/2010/UltxaAyharyuä