# Naami Orthography Guide

by

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This paper concerns the Naami language spoken in Donga-Mantung division, Misaje subdivision, North West Region of Cameroon.

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This is a revised version of the Naami Orthography Guide. The first version was written by Grace Tabah in 2011. The first revision was done in 2016 by Bonny Li and Njinyi Tasiana Atenchong. The current version was done right at the time when the translation of Naami New Testament was getting to a crucial time of checking, testing, and later on the final read through. These important steps of Bible translation and other literacy works in the Naami community have contributed a lot to the improvement of the Naami writing system, namely in the area of word division, tone orthography and minimal tone pairs. The main changes in this 2021 version include disambiguating grammatical constructions such as hortative, habitual, progressive, the PO perfective, the immediate future and the SVO imperatives. Also, though the translators did not apply this in the New Testament, we found it important to discuss the -nə/-lə verb suffixes and the nə/lə negation particles and add a rule apropos. These constructions in Naami are solely distinguished by tone in their positive and/or negative forms. The marking of P2 vs. P3 has been revised. Most of these issues came up when the present author worked on Naami verb paradigms (2019: unpublished manuscript). Therefore, some of the data used here will be taken from that 2019 paper. Some guidelines for special spelling have also been added. More importantly, the spelling of the Naami data has been revised according to the writing system used in the Naami New Testament which was typeset in April 2021.

Some of the data utilised in this version came mainly from the translators of the New Testament, namely, Jibbo Bernard Kande, Guda Lawrence, Mbante Solomon and Dodi Samuel.

# **Abbreviations**

1, 2, 3 first, second, third person

1c, c2, c3 Noun classes

AM Associative marker

c (Noun) class

CP Completer particle
 F0 Immediate future
 F1 Near future tense
 F2 Medial future tense
 F3 Remote future tense

HAB Habitual aspect HORT Hortative mood

n Noun

NEG Negative polarity
PFV Perfective aspect
PROG Progressive aspect

REAL Realis mood

P1 Recent past tense
P2 Medial past tense
P3 Remote past tense

S Singular

v Verb

H High toneL Low toneM Mid tone

HM High-Mid tone
HL High-Low tone
ML Mid-Low tone
MH Mid-High tone
LM Low-Mid tone
LH Low-High tone

# Acknowledgments (for this version)

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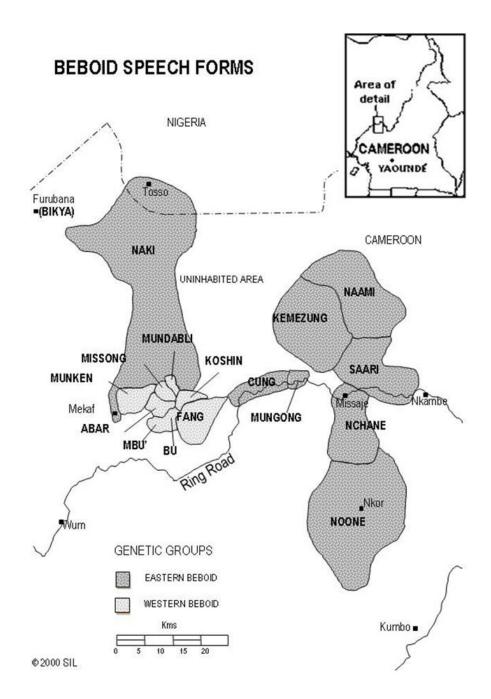
#### 1 Introduction

This paper proposes an orthography for Naami, a Beboid language spoken in the North West Region of Cameroon, Donga-Mantung division, Misaje subdivision. Like other Bantoid languages, Naami is a tonal language, spoken by about 4,400 people as stated in the *Ethnologue* (2021). The ethnic group called Bebe means "us us" or "we we" in Pidgin English. The Bèbè land is ruled by two fondoms: The fondom of Bebe Jatto which rules Sabongida, Bebe Jato and Mayonfon villages, and the fondom of Bebe Kette which rules Mayokila, Bebe Kette and Bebe Jama. The language has two dialects known as bebe-kette and bebe-jato. The Naami speaking area is bordered on the West by the Kemedzung language and in the South by the Sari language. The eastern part of the Bebe area is a vast land up to the border with Nigeria, inhabited almost entirely by Fulani cattle herders. The *Ethnologue* (Lewis, Simons, and Fennig 2021) lists the following as the language name variations: Bebe and Yi be Wu. The ISO-639-3 language code is [bzv].

Grace Tabah in April 2021 defended her PhD thesis on the topic "Tone description in Eastern Beboid Languages: Implications for Orthography and Literacy". The thesis examined Naami, Chungmboko and Kemedzung. Grace Tabah (2020) wrote a Sketch Grammar of Naami. Blaise Tala (2019 *unpublished manuscript*) wrote a paper on the Naami Verb Phrase. SIL (2016/2017) organized A Rapid Word Collection workshop in which 17,834 words and phrases were collected. This will probably result in around 7,000 words once these forms are organized into dictionary entries. Li Bonny (2016) wrote a Participant Reference Strategies in Naami Narrative Discourse. A phonology sketch of Naami was done by Tabah (2011) mainly from a wordlist collection of 1490 words. Much earlier than these recent works, Jean-Marie Hombert (1980) studied the noun classes of the Beboid languages, including those of Naami. Apart from these above-mentioned papers, we are not aware of any other linguistic work done on Naami.

Since the objective of this paper is to help describe a good Naami orthography for the Naami language, I will continue to use the orthography symbols for the Naami segmental alphabet already in use by the community. The following bolded orthographic graphs and digraphs correspond to their International Phonetic Alphabet (IPA) sounds:  $\mathbf{ch} = [t]$ ,  $\mathbf{sh} = [f]$ ,  $\mathbf{j} = [d_f]$ ,  $\mathbf{ny} = [h]$ ,  $\mathbf{y} = [h]$  and  $\mathbf{hl} = [h]$ .

The following map, showing the location of the Beboid Speech forms, is adapted from Hamm 2002.



Map of the Beboid languages (Hamm 2002:2)

# 2 Alphabet

The Naami segmental alphabet is made up of 21 consonants and 9 vowels. They are represented below in upper and lower cases:

A a, B b, Ch ch, D d, E e, ε ε, θ θ, F f, G g, Gb gb, H h, Hl hl<sup>1</sup>, I i, I i, J j, K k, Kp kp, L l, M m, N n, Ny ny, Ŋ ŋ, O o, O o, P p, Sh sh, T t, U u, W w, Y y.

#### 2.1 Consonants

The consonant phonemes, their allophones and graphemes are presented in the table below. We also show their use in various positions in a word.

Phoneme	Allophone	Grapheme	Initial position	Medial position	Final position
/p/	[p]	P p	pwaŋ	bəpampa	
			honey	tins	
/t/	[t]	T t	tələ	fitu	
			cane	forehead	
/k/	[k]	K k	kinaaŋ	fika	
			ringworm	botle	
/b/	[b]	Вb	bufe	nlobi	
			wisdom	weaver	
/d/	[d]	D d	dontə	fidu	_
			explain	dove	

¹ The digraph **hl** stands for the voiceless dental alveolar palatal [‡]. However, the General Alphabet of Cameroon Languages (Tadadjeu & Sadembouo 1979, 1984) suggests that it should be represented as **sl**. We could not get good information about the choice of **hl** over **sl**. We presume that this was to avoid any confusion with the **sl** (*sleep, slow, slap...*) in English which Bebe people use as second language. However, the fact that Naami also use a silent **h** to disambiguate minimal pairs called the attention of linguists in 2020 to suggest the change from **hl** to **sl** or **xl**. The translators met with the community in Sabongida and made the suggestion, using words with xl and sl to read. The people were very confused and said they preferred the **hl**. (The proposal of xl and sl was to avoid confusion between the digraph **hl** and the perfective past suffix **–la**. For example, a minimal pair verb like kee *teach* and **kee** *look* where *teach* is written with the silent **h** as **keeh**, then the perfective past **keehla** *taught*. This **keehla** has nothing to do with the digraph **hl**, but **keeh-la**.) Since the community did not like sl or xl, the suggestion that worked was to keep **hl** and separate **keeh** from **la** with the diacritic 'so as to have **keeh'la**. The Bebe community thus still feels comfortable with the **hl** digraph here.

Phoneme	Allophone	Grapheme	Initial position	Medial position	Final position
/g/	[g]	G g	gahi	kiga	
			subtract	mat	
/kp/	[kp]	Kp kp	kpii	kikpuŋ	
			moon	noise	
/gb/	[gb]	Gb gb	gbo	kigbətə	
			body	wooden bicycle	
/t <b>∫</b> /	[tʃ]	Ch ch	Chu	fichuli	
			God	mole	
/d3/	[dʒ]	Јj	joo	kijə	
			grave	mouth	
/f/	[f]	F f	fəmi	njaafa	
			fat	wander	
/ <del>\</del> 4/	[4]	Hl hl	hle	kəhlə	
			think	limp	
/ʃ/	[ʃ]	Sh sh	shaali	busho	
			sprinkle	hunt (v)	
/h/	[h]	H h	həmə	fwohi	
			point (n)	ferment (v)	
/m/	[m]	M m	məŋ	bemi	
			try	accept	
/n/	[n]	N n	nuh²	ŋɔɔni	
			knee	breathe	
/n/	[ɲ]	Ny ny	nyeŋ	finyini	_
			slaughter	bird	
/ŋ/	[ŋ]	Ŋŋ	ŋεεkε	deŋa	kwaŋ
			praying	okra	hand
			mantis		
/w/	[w]	W w	woomə	fiwo	_
			squat	grinding stone	
/1/	[1]	L1	libi	wələ	_
			lake	listen	

 $<sup>^2</sup>$  The final **h** on **nuh** is to differentiate it from **nu** which is a demonstrative pronoun *this* class 1.

Phoneme	Allophone	Grapheme	Initial position	Medial position	Final position
/j/	[j]	Yу	yoo	kiyaa	
			hot weather	buffalo	

# 2.1.1 Prenasalized consonants

One kind of consonant cluster found in Naami is the nasal consonant cluster. In this kind of consonant complex, the first consonant is a nasal  $(m, n \text{ or } \eta)$ . Quite a few consonants may be preceded by such nasals (symbolized as "N", known as a homorganic nasal) as in the following table:

Consonant cluster	Allophone	Grapheme	Initial position	Medial position	Final Position
/Nt/	[nt]	Nt nt	ntɨŋ	kintaŋ	
			saliva	bed	
/Nk/	[ŋk]	Ŋk ŋk	ŋkəənə	kiŋkaa	
			eyebrow	chair	
/Nb/	[mb]	Mb mb	mbaŋ	fimbi	
			fence	cola nut	
/Nd/	[nd]	Nd nd	ndəŋ	findəŋ	
			tears	fig tree	
/Ng/	[ŋg]	Ŋg ŋg	ŋgɔŋ	kiŋgɔ	
			blood	womb	
/Nkp/	[ŋkp]	Ŋkp ŋkp	ŋkpənə	kiŋkpee	
			quarrel	conclusion	
/Ngb/	[ŋgb]	Ŋgb ŋgb	ŋgbe	kiŋgbeŋ	
			fail	pus	
/Nt∫ /	[nt∫]	Nch nch	nchɨŋ	finch <del>i</del> ŋ	
			(be) drunk	bead	
/Ndʒ/	[ndʒ]	Nj nj	nje	kinji	
			urine	diarrhea	
/Nf/	[mf]	Nf nf	nfiinə	bənfə	
			pretend	react	
/N4/	[nł]	Nhl nhl	nhlinə	kinhlaŋ	
			drip	back	

Consonant	Allophone	Grapheme	Initial	Medial	Final
cluster			position	position	Position
/Nʃ/	[ɲʃ]	Nsh nsh	nsheŋke	bunshekuŋ	
			rag	country	
				Sunday	
/N1/	[nl]	Nl nl	nlo	mənlo	
			pain (n)	alcohol	
/Nw/	[ŋw]	ŋ'w ŋ'w	ŋ'wεε	kiŋ'wa	
			weeding	shirt	
/Nj/	[nj]	N'y n'y	n'yəə	kin'yohi	
			pushing	honour	

# 2.1.2 Palatalized Consonants

In this kind of consonant cluster, the second element is the palatal glide [j], which is always written in Naami as ani (as in other Misaje languages). Quite a few consonants may be followed by this glide, as in the following table:

Consonant complex	Allophone	Grapheme	Initial position	Medial position	Final position
/pj/	[pj]	Pi pi	pia		
			a way of wearing traditional dress (v)		
/tj/	[tj]	Ti ti	tiee tree	butie cave	
/kj/	[kj]	Ki ki	kiee	kikiaakia	
			fingernail	dragonfly	
/bj/	[bj]	Bi bi	biaa	bibiaa	
			wound, sore	leaves	
/dj/	[dj]	Di di	die	fidiee	
			voice	now	
/gj/	[gj]	Gi gi	giaali		
			shame (n)		
/fj/	[fj]	Fi fi	fioŋ	finfiaŋ	
			cotton	ring (finger)	

Consonant	Allophone	Grapheme	Initial	Medial	Final
complex			position	position	position
/pj/	[pj]	Pi pi	pia		
			a way of		
			wearing		
			traditional		
			dress (v)		
/tj/	[tj]	Ti ti	tiee	butiε	
			tree	cave	
/kj/	[kj]	Ki ki	kiee	kikiaakia	
			fingernail	dragonfly	
/mj/	[mj]	Mi mi	miaali		
			blink		
/ŋj/	[ŋj]	Ŋi ŋi	ŋiaŋ	fiŋiaa	
			child	baby	

#### 2.1.3 Labialized Consonants

The last kind of consonant complex is the labialized consonant where the second element is the labiovelar glide [w], which is written in Naami as w. The consonants that may be followed by this glide are illustrated in the following table.

Consonant complex	Allophone	Grapheme	Initial position	Medial position	Final Position
/pw/	[pw]	Pw pw	pwaŋ		
			liquid honey		
/kw/	[kw]	Kw kw	kwaŋ	bəkwεε	
			hand	women	
/bw/	[bw]	Bw bw	bweenə	kibweŋ	
			arm	shoulder	
/gw/	[gw]	Gw gw	_	ŋgwa	
				aubergine	
/t∫w/	[t∫w]	Chw chw	chwaŋ	finchwaŋ	
			monkey	support	
				stone	

Consonant	Allophone	Grapheme	Initial	Medial	Final
complex			position	position	Position
/d3w/	[dʒw]	Jw jw	jwa	kinjwaŋ	
			cook	decorate	
/fw/	[fw]	Fw fw	fwee	bəfwe	
			hair	two	
/ʃw/	[ʃw]	Shw shw	shwaanə	kishwa	
			mark out	flood	
/mw/	[mw]	Mw mw	mwaa	limwi	
			millet	razor	
/nw/	[nw]	Nw nw	nwaŋ	binwa	
			bamboo	four	
/ŋw/	[ŋw]	Ŋw ŋw	ŋwi	kiŋwaati	
			drink	book	

# 2.1.4 Consonant Orthography Rules

Various rules about which consonants can occur in which positions or which can occur before and after other consonants are important to learn. Here is a partial list of consonant orthography rules.

#### Rule 1:

- a. The only consonant that can be word-final is **ŋ**. We can have other consonants in borrowed words or names, like, **Lut** *Ruth*, **kosh** *course*.
- b. The h at word final position is not pronounced but only used to distinguish minimal pairs, see section 4.3 Writing noun and verb minimal pairs
- c. If you hear the lateral fricative [4] like in the word **hlahi** *scatter*, write **hl**.
- d. If you hear a nasal consonant before **k**, **g**, **kp**, **gb**, always write **ŋ**.
- e. If you hear a nasal consonant before **t**, **d**, **sh**, **ch**, **j**, **l**, **hl** or **f**, always write **n**.
- f. If you hear a nasal consonant before **b**, always write **m**.

#### 2.2 Vowels

The Naami language has nine vowel phonemes, presented with their allophones and proposed graphemes in the table below. The sounds are shown as they occur in different positions of the word.

Phoneme	Allophone	Grapheme	Initial position	Medial position	Final position
/i/	[i]	Ιi	I	biili	bihi
			he/she	rib (n)	spoil
/e/	[e]	E e	eee	kweli	ŋgbete
			yes	jaw (n)	birth pains
/٤/	[٤]	3 3		buhleli	kε
				(be) thin	bowl
/i/	[i]	Ηi	ihiŋŋ	kif <del>i</del> ŋ	ŋkɨ
			aha	brain	tune (v)
/ə/	[ə]	Эə	ә	chələ	chəə
			if	eyelash	heel
/a/	[a]	A a	akpolo	nyaŋ	jafa
			seed from a	urinate	stand up
			tree (sp.)		
/u/	[u]	Uu		ŋunə	ŋgulu
				get well	vulture
/0/	[o]	Оо	ooo!	fobi	kwo
			exclamation	skin (of	catch (v)
				fruit)	
/ɔ/	[c]	Οo		ŋɔɔni	chənə
				breathe	feast

# 2.2.1 Vowel Length

Naami has both short and long vowels. The nine long vowels are written as a sequence of two identical vowels. Examples of these long vowels and their contrasting short vowels are given in the table below:

Phonemic	Phonetic	Orthographic	Gloss
/di:/	[dì:]	dii	eye
/di/	[dì]	di	eat
/ <b>д</b> е:/	[ʤē:]	jee	fly
/ <b>д</b> е/	[ʤē]	je	path, road
/be:/	[bēː]	bεε	be weak
/bε/	[bé]	bε	calabash
/kpa:/	[kpāː]	kpaa	shoe,
/kpa/	[kpá]	kpa	drag on the floor
/kɨ:nə/	[kɨːnə́]	k <del>ii</del> nə	brick
/kɨnə/	[kɨnə́]	kɨnə	warn
/jə:/	[jǝː]	уәәŋ	(be) correct
/dzə/	[j̃ə]	yəŋ	certainly
/tu:/	[tùː]	tuu	touch
/tu/	[tù]	tu	carry
/tʃo:/	[ʧó:]	choo	be hot
/tʃo/	[ʧò]	cho	stone beef
/\f2:/	[45:]	hloo	wipping
/4ɔ/	[45]	hlo	cutlass

# 2.2.1 Vowel Orthography Rule

Various rules about which vowel can occur in which positions are important to learn. Here is a partial list of vowel orthography rules.

# Rule 2:

- a. Never write two vowels together unless they are the same vowels or the first one is i.
- b. Ideophones are written with three identical vowels together.

# (cf section 4.5 Ideophones)

yiii the sound of a moving vehicle

#### 3 Tone

Considerable work has been done in the area of Naami tone orthography in order to identify all instances where tone needs to be marked. This has been done in collaboration with the Naami language committee, followed by testing and evaluation in the language community. The community and the linguists finally decided to be marking tone only where it is absolutely necessary as in the case of gender 9/10 nouns discussed below. This is similar to what is done in Nooni, Nchane and Chung (and some other Beboid languages) where minimal tone markings are used in the early stages of orthography implementation. In the following subsections, we present basic phonological tone in Naami as well as certain diacritics used in marking distinctions in grammatical meaning.

#### 3.1 Basic Naami Tone

Grace Tabah (2011) identified nine contrastive tones in Naami: three level tones (high, mid and low) and six contour tones (low-high, high-low, mid-low, mid-high, low-mid, and high-mid). Below are examples of words with the three level tones and the six contour tones:

Tone	Phonetic	Gloss
High	[tjé]	ear
Mid	[kwō]	bone
Low	[kǝ]	slap (v)
Low-High	[jŏ]	louse
Low-Mid	[lɛ̃]	throw
High-Low	[t∫ô]	sand
High-Mid	[lú]	dust
Mid-Low	[tà]	ladder
Mid-high	[t∫ă]	fill

None of these nine contrastive lexical tones are consistently marked with diacritics (as in many Cameroonian languages outside of the Misaje area). Instead of

using consistent diacritic markings, the language committee and community have decided only to distinguish lexical tone contrast on certain words where confusion is most obvious to all. See section 4 Guidelines for special spellingsbelow for details on how specific minimal tone pairs are given special spellings to clarify their meanings.

#### 3.2 Grammatical functions and markings of tone

Tone in Naami also plays important grammatical roles. For instance, the difference between certain singular and plural nouns (section 3.2.1), the difference between certain tenses (sections 3.2.2 and 3.2.3) and the difference between certain moods (section 3.2.4).

#### 3.2.1 Plural vs. Singular Forms of Classes 9/10 nouns

Like most Beboid languages, the only difference between class 9 and class 10 nouns in Naami is tone. Class 9 is the singular class and usually has its plural in class 10. Nouns in class 10 usually carry a relative high tone which distinguishes them from class 9 nouns, as shown in the examples below:

Tone for class 9 vs. class 10	Class 9 (singular)	Class 10 (plural)	Gloss
Low – High	[dʒà]	[dʒá]	weaver-bird(s)
Low – High	[tʃə̀ŋ]	[tʃə́ŋ]	room(s)
Low – Falling HL	[hlù]	[hlû]	giraffe(s)
Mid – High	[kɨŋ]	[ <b>kí</b> ŋ]	python(s)

In writing orthographic tone for these classes, mark a high tone diacritic (´) over the first vowel of nouns of plural class 10 and leave nouns of singular class 9 unmarked. For polysyllabic words in class 10, only the first syllable is marked with a high tone diacritic and the rest of the syllables are unmarked. For words with vowel clusters or long vowels, only the first vowel is marked with a high tone diacritic. This identical rule is being used by many Beboid languages where class 9 and class 10 nouns are distinguished solely by tone. Examples of how to write class 9 and 10 nouns in Naami are given below:

Class9	Gloss	Class 10	Gloss
yaa	chin	yáa	chins
jεŋ	hippopotamus	jéŋ	hippopotami
shəŋ	sheep	shóŋ	sheep
juŋ	antelope	júŋ	antelopes
yo	snake	yś	snakes
jooli	mushroom	jóoli	mushrooms
dia	rubber	día	rubbers
shaani	flying ant	sháani	flying ants
fie	debt	fíe	debts

Based on this analysis, the following tone orthographic rule is presented:

**Rule 3:** Write gender 9/10 nouns in the plural form (class 10) by marking a diacritic (´) over the first vowel of the word. The singular (class 9) form of the noun is left unmarked.

# 3.2.2 P2 (medial past) versus P3 (remote past) tense markers

The P2 and P3 tense markers differ in tone only. The P2 marker is used to show events that occurred one to three days ago, while the P3 marker is employed to indicate events that occurred long ago. The P3 tense marker is marked with a low tone diacritic over the vowel **mà** while the P2 tense marker is written as the unmarked **ma**. We can see this in the examples below.

Wə	ma	kə	gəŋnə	fogbu	lə.
2s	P2	not	went	yesterday	CP
You did not go yesterday.					

I ma fɔŋna fibε.

3s P2 sharpen knife.

He sharpened a knife (before today)

I mà fɔŋna fibε. he P3 sharpen knife He sharpened a knife long ago. Mbεε ju nnu bó mà chee lə Jɔɔŋ.

Person some who they P3 called that John

Long ago there was a person called John.

**Rule 4:** Mark a low tone diacritic ( `) on the verbal tense marker **mà** whenever it indicates remote past (P3) tense.

# 3.2.3 F2 (near future) versus F3 (remote future)tense markers

Similarly, the F2 and F3 tense markers also differ by tone only. The F2 marker  $[y\bar{a}]$  is used to indicate an event that will occur in one to three days, while the F3 marker  $[y\acute{a}]$  is employed to show an event that will occur in about four or more days. The F3 tense marker is marked with a high tone diacritic over the vowel  $y\acute{a}$  while the F2 tense marker is left unmarked as in ya, as below.

**B**\( \tilde{\psi} \) y\( \tilde{\psi} \) go after two days They shall go in two days.

Bá ya bwo mbwaa. they F2 come tomorrow They will come tomorrow.

**Rule 5:** Mark a high tone diacritic (´) on the verbal tense marker **yá** to show remote (F3) future tense.

# 3.2.4 Hortative mood marker

The immediate future and hortative constructions are written with the same segmental verb forms in both positive and negative variants. Let us consider the positive examples (written with their non-orthographic surface tones) below.

Ì géŋ kìŋwàatì.3S go.F0 schoolHe will go to school.

Ì gèŋ kìŋwàatì.3S go.HORT schoolHe should go to school.

Looking at the examples above, we can see that immediate future (F0) tense and hortative constructions need to be distinguished with diacritics somehow since their written letters are identical. In order to solve this problem, we will write hortative constructions with a circomflex diacritic ( ˆ ) over the first vowel of the verb in all hortative sentences, as follows.

I gəŋ kiŋwaati. He will go to school. (immediate future)

I gôŋ kiŋwaati. He should go to school. (hortative)

A close look at the negative form of hortative construction also shows that it is ambiguous but, this time, with the negative form of the P0 perfective. Therefore, the problem of confusion will not be totally solved if only the positive form of any of either hortative or F0 is marked, as we can see in the examples below.

	Positive form	Negative form
P0	Ì gèŋná kìŋwàatì.	Ì ká gàŋná kīŋwāatī ká.
PERF	3S go.P0-PFV school	3S NEG go.PFV.NEG school NEG
	He has gone to school.	He has not gone to school.
HORT	Ì gèŋ kìŋwàatì.	Ì kā gàŋná kīŋwāatī ká.
	3S go.HORT school	3S NEG go.HORT.REAL school NEG
	He should go to school.	He should not go to school.

**Rule 6:** Write negative and positive hortative constructions with a high low tone diacritic on top of the first vowel of the verb and leave the immediate future and P0 perfective constructions unmarked for tense and mood, as below.

I gôŋ kiŋwaati. I kə gôŋnə kiŋwaati kə. He should go to school. He should not go to school.

# I gəŋ kiŋwaati.

# I gəŋ nə kiŋwaati.

He will go to school.

He will not go to school.

# 3.2.5 Habitual aspect<sup>3</sup>

Another pair of constructions that are frequently orthographically ambiguous are the present habitual (which describes an action that someone does often) with the immediate future. Let us look at the relevant examples below (again written with their non-orthographic surface tones).

	Positive form	Negative form
Immediate future F0	Ì gớŋ kìŋwàatì.	Ì gớn nó kīŋwāatī kớ.
	3S go.F0 school	3S go.F0 NEG school NEG
	He will go to school.	He will not go to school.
Habitual	Ì gōŋ kìŋwàatì.	Ì gōŋ nó kīŋwāatī kó.
	3S go.HAB school	3S go.HAB NEG school NEG
	He goes to school.	He does not go to school.

The above sentences are pronounced differently only in that their verbs are realized on different tones. Since the segmental written forms are identical for these present habitual and future constructions, it is again necessary to somehow distinguish them orthographically. We will therefore mark present habitual constructions (both positive and negative forms) in order to avoid confusion with F0 sentences, as follows:

I g <b>ə</b> ŋ kiŋwaati.	I g <b>è</b> ŋ nə kiŋwaati kə.
3S go.HAB school	3S go.HAB NEG school NEG
He goes to school.	He does not go to school.
I gəŋ kiŋwaati.	I gəŋ nə kiŋwaati kə.
3S go.F0 school	3S go.F0 NEG school NEG
He will go to school.	He will not go to school.

<sup>&</sup>lt;sup>3</sup> This section and the next one mainly describe the marking used in the New Testament, where the mid tone on top of the first vowel of the verb was used to mark negative progressive, low tone for negative habitual and negative future unmarked. Meanwhile, after the printing of the New Testament, we have realized that there is no tonal difference between NEG HAB and NEG PROG. Therefore, it would be good if while F0 is left unmarked, all imperfectives (habitual and progressive positive and negative form) are marked with the same mark (mid tone), as shown in the next section: 4.

**Rule 7:** Mark habitual sentences with a low tone diacritic (`) over the first vowel of the verb, both in their positive and negative forms.

# 3.2.6 Negative progressive VS negative habitual and F0

The negative forms of the sentences below are segmentally written the same (and are written here with their non-orthographic tones).

	Positive form	Negative form
НАВ	Ì ḡŋ kìŋwàatì. 3S go.HAB school He goes to school.	Ì gēŋ nó kīŋwāatī kó. 3S go.HAB NEG school NEG He does not go to school.
PRES PROG	Ì yú ḡŋ kìŋwàatì. 3S PROG go school He is going to school.	Ì gōŋ nó kīŋwāatī kó. 3S go.PROG NEG school NEG He is not going to school.
F0	Ì gớn kìnwàatì. 3S go.F0 school He will go to school.	Ì gớn nó kīnwāatī kó. 3S go.F0 NEG school NEG He will not go to school.

From the above examples, we can see that there is no difference between negative present habitual and negative present progressive in spelling and tones despite a differentiation in the parallel positive constructions. Given that both the positive and negative habitual forms are marked and the future unmarked, it also helpful to mark the present progressive which has **yu** as its aspectual marker though it disappears in the negative form.

In order to simplify teaching of these grammatical tone marks, it is good that the present progressive (both positive and negative forms) be marked with the mid tone diacritic (¯) though the positive form has the extra **yu** morpheme. As a result, we will have the following habitual, progressive and future sentences written orthographically as in the table below:

	Habitual	Progressive	Immediate future
	I gèŋ kiŋwaati.	I yu gāŋ kiŋwaati.	I gəŋ kiŋwaati.
ive	3S go.HAB school	3S PROG go school	3S go.F0 school
Positive	He goes to school.	He is going to school.	He will go to school.
/e	I gèŋ nə kiŋwaati kə.	I gōŋ nə kiŋwaati kə.	I gəŋ nə kiŋwaati kə.
Negative	3S go.HAB NEG school NEG	3S go.PROG NEG school NEG	3S go.F0 NEG school NE
Neg	He does not go to school.	He is not going to school.	He will not go to school.

**Rule 8:** Write present progressive positive and negative forms with a mid tone diacritic ( ) on top of the first vowel of the verb.<sup>4</sup>

# 3.2.7 F0 vs. Imperative with topicalized subject

Imperative commands are clearly expressed in Naami. We can have the common VO (Verb Object) as well as occasional SVO (Subject Verb Object) patterns. Whenever the SVO is used, there is a potential pause after the imperative subject, followed by the typical VO command. The common VO pattern is obvious and clear to recognize, as is the case with English and other Beboid languages. However, whenever the SVO imperative is written, it is identical to the hortative. This is exemplified below (again written with non-orthographic tones):

4

	Habitual	Progressive	Immediate future
Positive	I gōŋ kiŋwaati. 3S go.HAB school He goes to school.	I yu gōŋ kiŋwaati.  3S PROG go school  He is going to school.	I gəŋ kiŋwaati. 3S go.F0 school He will go to school.
Negative	I gōŋ nə kiŋwaati kə. 3S go.HAB NEG school NEG He does not go to school.	I gōŋ nə kiŋwaati kə. 3S go.PROG NEG school NEG He is not going to school.	I gəŋ nə kiŋwaati kə. 3S go.F0 NEG school NE He will not go to school.

	Positive form	Negative form
Hortative	Dódí gèn kìŋwàatì. Dódí go.HORT school  Dodi should go to school.	Dódí kā gàŋ-ná kīŋwāatī ká. Dodi NEG go.HORT-REAL school NEG  Dodi should not go to school.
Imperative	Dódí, gòŋ kìŋwàatì! Dodi, go school Dodi, go to school!	Dódí, kā gàŋ-ná kīŋwāatī ká! Dodi, NEG go-REAL school NEG Dodi, don't go to school!

	Imperative with subject	Hortative
Positive form	Dódí <b>, gəŋ kiŋwaati!</b>	Dodi gôŋ kiŋwaati.
	Dodi, go to school!	Dodi should go to school
Negative form	Dódí, kə gəŋnə kiŋwaati kə!	Dodi kə gənnə kinwaati kə.
	Dodi, don't go to school!	Dodi should not go to school

**Rule 9:** Write both the positive and negative forms of an SVO (Subject Verb Object) imperative by putting a comma after the subject and an exclamation mark at the end of the sentence.

As for the normal V(O) imperative mood, the reader automatically knows the mood since it is not confusable with any other structure (no other constructions have a missing initial subject). The ordinary exclamation mark can therefore be used at the end of the sentence, as in the examples below.

Positive form: Gən kinwaati! Go to school!

Negative form: Kə gəŋnə kiŋwaati kɨ! Do not go to school!

# 4 Guidelines for special spellings

Naami, like other Beboid languages, has words that are easily confused with each other when their lexical tones are not written. Therefore, some of these ambiguous pairs of words need to somehow be disambiguated. The three disambiguating conventions for Naami are: the doubling of the initial consonant, the doubling of the final nasal  ${\boldsymbol \eta}$  and the adding of a silent  ${\boldsymbol h}$  at the end of the root word. Ideophones are also written in a special way, according to their syllabic structure.

# 4.1 Writing relative pronouns, the possessive pronoun *my*, and the demonstrative pronoun *this*.

In Naami, with the writing rules that we have discussed so far, the possessive pronoun *my*, the relative pronoun *who/that/which* and the demonstrative pronoun *this* would be written the same, each one according to the noun class they belong to. Therefore, these three otherwise ambiguous items need to be differentiated from each other in some way. Our solution is to always write the possessive *my* with a double  $\mathfrak{g}$  at the end of the word, write the relative pronoun *which* with double consonants at the beginning of the word and the demonstrative pronoun *this* with an  $\mathfrak{h}$  before the final  $\mathfrak{g}$ . If the word is consonant plus vowel like  $\mathfrak{ni}$  for instance, add  $\mathfrak{h}$  at the end like  $\mathfrak{nih}$ . Except  $\mathfrak{nu}$  where  $\mathfrak{h}$  is used for the word *knee* instead, as we see in the table below.

Class	Example	Possessive	Relative	Demonstrative
	words	pronoun my	pronoun	pronoun this
1	ŋkələ	ŋgwəŋ <sup>5</sup>	nnu	nu
	box			
2	bəŋkələ	bəŋŋ	bbəŋ	bəhŋ
	boxes			
3	nwaŋ	wuŋŋ	wwuŋ	wuhŋ
	bamboo			
5	limwi	lɨŋŋ	ll <del>i</del> ŋ	l <del>i</del> hŋ
	razor			
6	ŋəmwi	ŋəŋŋ	ŋŋəŋ	ŋəhŋ
	razors			
7	kimbaa	kɨŋŋ	kkɨŋ	kɨhŋ
	snail			
8	bimbaa	b <del>i</del> ŋŋ	bb <del>i</del> ŋ	bɨhŋ
	snails			
9	jii	njəŋ	nni	nih
	hoe			
10	jíi	yɨŋŋ	yy <del>i</del> ŋ	yɨhŋ
	hoes			
14	butie	buŋŋ	bbuŋ	buhŋ
	cave			
19	fiŋka	fɨŋŋ	ffiŋ	f <del>i</del> hŋ
	bottle			
18a	mwiŋka	ասդղ	mmuŋ	muh
	bottles			
25	mentiε	məŋŋ	mməŋ	məhŋ
	caves			

**Rule 10:** Write the possessive pronoun my by doubling the  $\mathfrak{g}$  at the end of the word when it is ambiguous, the relative pronoun who/that/which by doubling the consonant

<sup>&</sup>lt;sup>5</sup> The linguist and the consultant suggested to the Naami language team that for consistence, all possessive pronouns meaning my should have double final  $\mathbf{\eta}$  and all demonstrative pronoun *this* should have  $\mathbf{h}$  without exception even if some do not confuse with any other word. However, the team insisted that they will mark only the ones that are sometimes confusing.

at the beginning of the word and the demonstrative pronouns *this* with the silent  ${\bf h}$  before the final  ${\bf \eta}$ .

# 4.2 Writing the possessive adjective *his* and other lexical words.

In Naami, the possessive adjective *his* has various forms according to the noun class of the word they determine. Each form except class 18a has other meaning(s) apart from being a possessive. These words should be disambiguated by adding the silent **h** at the end of the possessive his and leaving the other meanings unmarked, as we see in the table below.

Class	Example	Possessive	Other
	word	his	meanings
1	ŋkələ	wih	wi
	box		
			over there
2	bəŋkələ	biih	bii
	boxes		ask
3	nwaŋ	wiih	wii
	bamboo		stop
			crying
5	limwi	liih	lii
	razor		remove a
			hoe from
			its handle
6	ŋəmwi	ŋiih	ŋii
	razors		shell of a
			porcupine
7	kimbaa	kiih	kii
	snail		type of
			weaving
			plan
8	bimbaa	biih	bii
	snails		ask

	1	T	T
Class	Example	Possessive	Other
	word	his	meanings
9	jii	yih	yi
	hoe		cave/cliff
10	jíi	yiih/yíih	yii
	hoes		name, type
			of pepper
14	butiε	bwiih	bwii
	cave		fire, arrive
19	fiŋka	fiih	fii
	bottle		burn, turn
18a	mwiŋka	mwiih	
	bottles		
25	mentiε	miih	mii
	caves		to press
			1

**Rule 11:** Write any possessive adjective *his* by adding an **h** at the end of the word and leave any parallel word without the additional letter.

# 4.3 Writing noun and verb minimal pairs

By the same token, if two words are spelt the same and therefore easily confused with each other, choose the one which occurs the least in common usage and add a silent  $\mathbf{h}$  after the vowel. If the word has a final  $\mathbf{\eta}$ , write the  $\mathbf{h}$  before the  $\mathbf{\eta}$ , as in the following examples.

Syllable type	Word	Gloss	Word	Gloss	Extension	Gloss
CV	nu	this	nuh	knee		
CVV	kee	look	keeh	teach	keeh'la	taught
CVC	nɨŋ	work	n <del>i</del> hŋ	refuse	nɨhŋna	refused
CVCV(ŋ)	finchɨŋ	bead	finch <del>i</del> hŋ	curse		

Rule 12: If two words are easily confused with each other, choose the less common in daily usage and add a silent **h** after the last vowel of the root. If the word ends with **n** like nin refuse, add the silent **h** before the **n** giving nihn refuse. If the word is a verb, the past perfective will be written with the perfective suffix attached to the verb, for instance nihnna refused and nihnna not refuse. If the word is a verb of CVV structure like kee look, the **h** will be at the end of the verb root. In these cases, the past perfective positive form will be written with an apostrophe in between the **h** and the suffix to visually separate the **h** from the **l**, giving for instance keeh'la taught and keeh'la did not teach. This must be done to avoid any confusion between the special h'l forms that are formed between a root and a suffix and the letter of the basic alphabet written hl.

#### 4.4 Writing second person plural be and third person plural be

In Naami, the second person plural **bə** and the third person singular **bə** differ solely by tone and therefore sometimes confused the reader. To avoid this confusion, write

they and them with a high tone diacritic over the first vowel of the verb, like in the following sentence.

# Bá fwola kpo.

3Pl borrow money

They have borrowed money.

### Bə fwəla kpo.

2Pl borrow money

You have borrowed money.

**Rule 13:** Write the third person plural *they* and *them* with a high tone diacritic over the vowel, giving **bo** and leave the parallel second person plurals unmarked, giving **bo**.

# 4.5 Ideophones

Ideophones appear according to the effects of the action that is being described. If the action described is repetitive, the ideophone will be written with three time repeated syllables as one, like:

**kpankpankpan** sound of a bell

tututu sound of a grinding mill

If the action described is not continuous and repetitive, the ideophone will be written with three vowels, as in:

**kpaaa** sound of a gun

**gbaaan** sound of the door closed with force

waaa sound of running water

ngooon sound of a lion roaring

naaan sound of a baby crying

**Rule 14:** Write ideophones for repetitive action as a combined word with three identical syllables. If the action is not repetitive or continuous, write the ideophone with three vowels.

#### 5 Word Division

Naami words should be written in a way that preserves their word image, i.e. words should be written as they are spoken in isolation.

#### 5.1 Noun class prefixes

**Rule 15:** Noun class prefixes will be written attached to their noun roots, as shown below.

Example	Gloss	Example	Gloss
tah	father	bətah	fathers
nyaa	broom	binyaa	brooms
finchɨŋ	bead	mwinchɨŋ	beads
kinuu	buttock	binuu	buttocks
chəə	heel	bichəə	heels
buyili	bundle	mənyili	bundles
fitu	forehead	muntu	foreheads

# 5.2 Noun Modifiers and Noun Class Agreement Markers

Noun modifiers in Naami include possessives, demonstratives, numerals, adjectives and quantifiers. In each of these categories, the noun modifiers agree with their modified noun through the use of agreement marker prefixes. These markers that show agreement in a noun class are written attached to the modifier root, instead of being written separate.

**Rule 16:** Write noun modifiers with their noun class agreement markers joined to their roots as prefixes.

Below are examples of each of the modifiers which demonstrate the above rule.

#### **Possessive Pronouns**

noun classes	example words	Gloss	Possesive	Gloss
		_		
noun class 1	ŋkələ	box	bə	their
noun class 2	bəŋkələ	boxes	bəbə	their
noun class 3	nwaŋ	bamboo	wibə	their
noun class 5	limwi	razor	libə	their
noun class 6	Náŋ	bamboos	ŋəbə	their
noun class 7	kimbaa	snail	kibə	their
noun class 8	bimbaa	snails	bibə	their
noun class 9	jii	hoe	bə	their
noun class 10	jíi	hoes	yibə	their
noun class 14	butiε	cave	bubə	their
noun clsss 18a	munhluŋ	antenna	mubə	their
noun class 19	finhluŋ	antennas	fibə	their
noun class 25	məntiε	caves	məbə	their

# **Numerals**

Classe s	Example words	Gloss	two	three	four
2	bəŋkələ	boxes	bəfwe	bətə	bənwa
6	náŋ	bamboos	fwe	tə	na
8	bimbaa	snails	bifwe	bitə	binwa
10	jíi	hoes	fie	sho	nya
19	munhluŋ	antennas	munfweŋ	muntəŋ	munwaani
25	məntiε	caves	məmfwe	məntəŋ	mənwaani

# **Demonstratives**

Class	Example words	Gloss	Proximal	Distal	Far distal
1	ŋkələ	box	nu	yo	kwi
2	bəŋkələ	boxes	bəŋ	bie	bəli
3	nwaŋ	bamboo	wuŋ	we	wili
5	razor	limwi	l <del>i</del> ŋ	le	lili
6	náŋ	bamboos	ŋəŋ	ŋie	ŋili
7	kimbaa	snail	kɨŋ	kie	kili
8	bimbaa	snails	biŋ	bie	bili
9	jii	hoe	ni	ye	ki
10	jíi	hoes	yɨŋ	ye	yili
14	butiε	cave	buŋ	bwe	bwili
19	finhluŋ	antenna	f <del>ì</del> ŋ	fie	fili
18a	mwinhluŋ	antennas	muŋ	mwe	mwili
25	məntiε	caves	məŋ	mie	mili

# Quantifiers

Class	Example words	Gloss	all	some	many
2	bəŋkələ	boxes	bənhliŋ	bədi	bəkiŋaŋ
6	náŋ	bamboos	ŋənhliŋ	ŋəndi	ŋəkiŋaŋ
8	bimbaa	snails	binhliŋ	bidi	bikiŋaŋ
10	jíi	hoes	yinhliŋ	yidi	yikiŋaŋ
19	mwinhluŋ	antennas	munhliŋ	mundi	mukiŋaŋ
25	məntiε	caves	mənhliŋ	məndi	məkiŋaŋ

# Adjectives

a. **kiŋwaati kitənə** c7.book c7.small

small book

b. **cháŋ yiwu** c10.houses c10.white

white houses

c. **budien buŋkuntaŋ**c14.bridge c14.big

big bridge

# 5.3 Associative noun phrase

The associative phrase is a type of grammatical construction that shows a relationship between two nouns. A number of different semantic relationships can be communicated through the association of two nouns. These two nouns are called noun 1 (N1) and noun 2 (N2). The two nouns are joined together using an associative marker which agrees with the class of the head noun (N1) in the construction.

Rule 17: Write the associative marker separate from N1 and N2.

tiee

05				
c3.root	c3.AM	[	c7.tre	e
root of tree				
wεε	ki		bələk	อ
c7.farm	c7.AM	[	c1.cas	sava
cassava far	m			
sháŋ		yi		bilika
c10.seed		c10.Al	M	c1.pawpaw
pawpaw see	eds			

wi

#### 5.4 Compound nouns

gben

A compound noun is a type of construction that is formed when two or more words come together, resulting in a new word that functions as a noun and refers to a single concept. Compound nouns in Naami are formed by joining a noun with another word such as a verb, or one or more nouns. The resulting compound takes the same noun class as the initial noun of the compound. Examples are seen below.

kpεε ŋku
c1.woman ancestor
widow

mbεε kpuuni
c1.person visit
visitor

ŋwa nshɔŋ
c1.child sheep
lamb

**Rule 18:** Write compound noun words separately, except for the word **Ŋwambεε** son of man.

# 5.5 Verbal Aspects and Causative Markers

**Rule 19:** Write the perfective aspectual marker (-la, -na, -a) and the causative marker (-hiŋ) joined to the verb root as suffixes.

dii	call	diila	called
gəŋ	go	gəŋna	went
lə	afraid	ləhiŋ	frighten

The form of the perfective suffix changes depending on the last vowel and consonant of the verb, which gives rise to the following rules.

Rule 20: For verb roots ending with **h**, where the **h** indicates a special addition to disambiguate a tonal minimal pair dintinction, the **h** is kept with the root when the perfective suffix is added. In addition, an apostrophe ( ') is added in front of the perfective suffix when the form of that suffix is -la/-lə. This apostrophe is added to indicate that the **h'l** is not the normal **hl** digraph in the basic alphabet.

keeh	teach	keeh'la	taught

#### 5.5.1 Negative nə/lə in imperfective vs. past perfective

In Naami, negation is marked by the discontinuous **kə...kə** in past perfective constructions and the discontinuous **nə/lə...kə** in imperative and future ones. The difference between these two discontinuous morphemes is the positioning of the

morphemes: in the first case, the first part is always pre-verbal and the second part is always sentence-final, while in the second case, the first part is always post-verbal but before the object while the second part is again sentence-final. None of the discontinuous negation markers can be written as one word because they are two separate words. We can see this in the following examples.

I gəŋna.	I kə gəŋnə kə.
3S go.PFV	3S NEG go.PFV.NEG NEG
He has gone.	He has not gone.
I diee.	I kə diee kə.
3S eat.PFV	3S NEG eat.PFV.NEG NEG
He ate.	He did not eat.
I yu gāŋ chɔ.	I gāŋ nə chə kə.
3S PROG go church	3S go.IPFV NEG church NEG
He is going to church.	He is not going to church.
I gèŋ chɔ.	I gèŋ nə chə kə.
3S go.IPFV church	3S go.IPFV NEG church NEG
He goes to church.	He does not go to church.

As we have seen above, the past perfective marker appears as a suffix on the verb root. It can be **-la** or **-na** or a simple vowel, depending on the type of the syllable of the verb root. The variants **-la** or **-na** occur only with positive constructions while the parallel variantes **-la** or **-na** appear in negative constructions. Thus, the variants **-na** and **-na** are the opposing suffixes for CVC verbs while variantes **-la** and **-la** are opposing suffixes of CVV verbs. Thus the vowel change from **a** to **a** corresponds to the change from positive to negative meaning. We therefore have the parallel negative suffixes **-la** or **-na** instead of their positive counterparts. These latter are written the same as the negative particle words **la** or **na** in the negative progressive, negative habitual and negative imediate future. As rule 19 states above, suffixes are written together with the verb roots. However, when it comes to **na** or **la** in progressive, habitual and future constructions, the morphemes are not verb suffixes but negative markers and therefore should be written separated from the verb as follows:

## **Present Habitual**

I kànfion.I kànno fion ko.3S fry.HAB fish3S fry.HAB NEG fish NEGHe fries fish.He does not fry fish.

Idìdeka.3Seat.HABbeans3Seat.HABNEGbeansNEG

He eats beans. He does not eat beans.

# **Present Progressive**

Iyukāŋnəfiɔŋkə.3SPROG fryfish3Sfry.PROGNEG fishNEGHe is frying fish.He is not frying fish.

I yu nyāa chəŋ. I nyāa lə chəŋ kə.

3S PROG sweep house 3S sweep.PROG NEG house NEG

He is sweeping the floor" He is not sweeping the floor.

## **Immediate future**

I kan fion.I kan no fion ko.3S fry.F0 fish3S fry.F0 NEG fish NEGHe will fry fish.He will not fry fish.

I yá wεε chəŋ.
I yá wεε lə chəŋ kə.
3S F3 build house
He will build a house.
I yá wεε lə chəŋ kə.
He will not build a house.

Rule 21<sup>6</sup>: Write the normal negative particles **n**ə and **l**ə separated from the verb in progresssive, habitual and future constructions (in this case, the **n**ə or **l**ə appears after the verb and there is no **k**ə before the verb), but write the negative past perfective suffixes **-n**ə/**-l**ə attached to the verb like their counterparts of the positive form **-na**/**-la** (in this case, you have two **k**ə negative morphemes, one before the verb and one at the end of the sentence).

<sup>&</sup>lt;sup>6</sup> This rule was not consistanly applied in the NT because the allotted time to read through the NT before printing was not enough to do all the work. We hope that it will be perfectly applied in future documents such as literacy and other scripture materials.

## 5.5.2 Nouns formed from verbs (i.e. "verbal nouns")

It is possible to turn verbs into nouns by adding a nasal n, m, n before the word. For instance:

If you hear a nasal before **d**, **t**, **sh**, **ch**, **hl**, **j**, **l**, **f**, write **n**.

to	insult	nto	insult
jaa	move	njaa	moving
di	eat	ndi	eating
jii	kill	njii	killing
fwɔɔ	borrow	nfwəə	borrowing

Write **m** only before a noun that starts with **b**.

b <del>i</del> ŋ	dance	mb <del>i</del> ŋ	dancing
bwo	come	mbwo	coming

Verb roots starting with the consonants /n/, /m/, and  $/\eta/$  will double their initial consonants to become nouns.

ŋwi	drink	ŋŋwi	drinking
mwaŋ	suck	mmwaŋ	sucking
nəŋ	sleep	nnəŋ	sleeping

For verbs starting with the semivowels /y/ and /w/, an apostrophe ( ') will be put after the nasal prefix to form their respective nouns.

уээ	talk	n'yəə	talking (n.)
wee	build	ŋ'wee	building (n.)

**Rule 22:** Nouns formed of verbs will be written by attaching a nasal prefix (m, n, n) or y) before the word. For verbs having initial consonants which are nasals, their initial consonants are doubled for the noun forms. For verbs starting with w, or y, an apostrophe (') is added between the nasal prefix and the verb root to form the noun.

# 5.5.3 1st person singular subject prefix on verbs<sup>7</sup>

In the Naami language, the 1st person singular subject morpheme meaning "I" is written joined to the verb as a prefix. It is also represented by a nasal m, n or  $\mathfrak y$  (i.e. a nasal having the same place of articulation as the consonant that follows). Let us consider the following present habitual forms (in the right column below) which are always marked by a low tone mark (the first column just there to show their contrast with simpler forms). (see section 3.2.5 above):

lu	roof (v)	nlù	I roof
bien	write	mbìen	I write

For verbs starting with a nasal consonant /n/, /m/ and  $/\eta/$ , double the initial consonant.

ŋaŋ	vomit	ŋŋàŋ	I vomit
nə	give	nnè	I give
manta	compare	mmànta	I compare

For verbs starting with the /n/ represented by the basic consonant digraph ny, add n in front of the verb.

nyi	excrete	nnyì	I excrete
y -	Cotton CtC	y -	1 03001 000

For verbs starting with /w/ or /y/, add  ${\mathfrak y}$  for  ${\mathbf w}$  and  ${\mathbf n}$  for  ${\mathbf y}$  and put an apostrophe ( ' ) in between the nasal and the verb.

wii	wash	ŋ'wìi	I wash
va	cut	n'yà	I cut

Therefore, the following orthographic rule resulted.

**Rule 23:** Write the first person singular of a verb by attaching a nasal  $\mathbf{m}$ ,  $\mathbf{n}$  or  $\mathbf{\eta}$  before the verb. For verbs having an initial nasal, the nasal consonant should be doubled. For verbs that start with  $\mathbf{w}$  or  $\mathbf{y}$ , put an apostrophe in between the nasal and the verb.

<sup>7</sup> The distinction between the first person singular prefixed verbs and the verbal nouns is the low tone on the first person singular and verb, which is usually habitual aspect and thus marked in the language by a low tone on the verb root (as a result of a distinction between habitual and immediate future F0). (See section 3.2.5 and section 5.5.2 above). However, if in the future the marking of habitual is changed, something must be done to disambiguate verbal noun and the first person singular prefix on the verb. In Mungong, another language of the Misaje cluster, a high tone diacritic is used on the first nasal of verbal nouns.

## 5.5.4 Infinitives formed from verbs

**Rule 24:** Write the infinitive form of a verb with the marker baN- joined to the verb root as a prefix (where N refers to a nasal n, m or n having the same place of articulation as the first consonant of the verb root). Examples:

ga	divide	bəŋga	to divide
jaa	move	bənjaa	to move
buhuŋ	gather	bəmbuhuŋ	to gather

**Rule 25:** If the verb starts with the nasal  $\mathbf{m}$ ,  $\mathbf{n}$  or  $\mathbf{\eta}$ , do not double it, write only  $\mathbf{b}_{\overline{\mathbf{v}}} + \mathbf{verb}$  instead.

nə	give	bənə	to give
məŋ	taste/try	bəməŋ	to taste/try
ŋwaa	comb (v)	bəŋwaa	to comb

**Rule 26:** For verbs beginning with  $\mathbf{w}$  or  $\mathbf{y}$ , put an apostrophe in between the nasal and the verb root.

wee	build	bəŋ'wεε	to build
yəə	say	bən'yəə	to say

#### 5.6 Numerals

**Rule 27:** Numbers 1 to 10 and multiples of ten which are less than one hundred (i.e. 20, 30, ... 90) are written as one word; numerals 11-19, 21-29... are written as separate words; numeral one hundred, multiples of one hundred and one thousand (i.e. 200, 300, ..., 1000) are written as one word; numerals which are multiples of one thousand (i.e. 2000, 3000, ..., 9000) are written as two separate words.

7	fumanyaaŋ
10	yuufi
11	yuufi nchə mwi
20	mbwεεnfie
30	mbweensho
100	gbi

101	gbi bi mwe
200	gifwe
300	gitə
1000	nchuku
2000	bənchuku bəfwe

bənchuku bətə

## 5.7 Completer

3000

A completer is a linguistic term used to designate some functional words that usually complete the sense of another word that appeared earlier in the sentence. Most of the time it appears at the end of the sentence.

Rule 24. Completers are written as separate words.

```
Ye bwee li Jisho mà jaa lə.

As birth of Jesus P3 happen CP

As the birth of Jesus took place.
```

# 6 Punctuation and Capitalization

The punctuation marks and the rules that govern the Naami language are the same as those for English. The punctuation marks used for Naami are therefore as follows:

- 1. Full stop (.)
- 2. Question mark (?)
- 3. Exclamation mark (!)
- 4. Comma (,)
- 5. Colon (:)
- 6. Quotation marks (" ") and (' ')

## 6.1 Full Stop

The full stop (.) marks the end of a declarative sentence.

Nchu yu gəŋ shi bəŋ.

Nchu F2 go market on

Nchu is going to the market.

# 6.2 Question Mark

The question mark (?) marks the end of an interrogative sentence.

Wə diee ge mwεhiŋ?
you eat egg how.many?
How many eggs will you eat?

## 6.3 Exclamation Mark

The exclamation mark is written at the end of a command with emphatic meaning, or it is placed following exclamatory words or phrases. It functions to express interjections, surprises, excitement, and forceful comments as well as simple commands.

Bwo fəŋ!
Come here!

## 6.4 Comma

Commas are used to separate clauses or parallel words within a clause, as below:

Njaŋko yo bə fibeka, shóŋ fiε, bə bi. Njaŋko have one cat sheep two one goat Njanko has a cat, two sheep and a goat.

## 6.5 Colon

Colons are used to separate a clause which refers to a concept in general terms from a clause or phrase which makes the concept more specific. It represents a pause in speech that could be replaced by the words "that is" or "as follows" in English.

Jə bieŋ bɨŋ: jii, hlo, fijili, bə fu. take things these hoe cutlass planting.hoe and axe Take these things: a hoe, a cutlass, a planting hoe, and an axe.

A colon also is used to signal the beginning of a list or in Bible references to separate the chapter number from the verse number.

Matio 1:3
Mathew chapter 1, verse 3

## 6.6 Quotation Marks

Quotation marks ( " " or ' ') occur at the beginning and end of direct speech, as below:

Nchu yəələ, "Jaŋ lə bwo daŋ."
Nchu say rain F2 come today
Nchu said, "It will rain today".

Note: In English and Naami, other punctuation marks always precede closing quotation marks when they occur next to each other.

# 6.7 Capitalization

Capital letters are used at the beginning of sentences and for proper nouns.

Kkə ya gəŋ Doŋ.
We F2 go Sabongida.
We shall go to Sabongida.

Ŋashi ma keeh'la Gabushi, Ŋgɔna bə Nfali. Nashi P1 teach-PERF Gabushi, Ngona and Nfali Nashi taught Gabushi, Ngona and Fali.

# 7 Need for further improving the orthography

Any new orthography needs to be used for a time before problems can be identified. Though this version has already gone through a decade of testing and is therefore considered as much improved, future scholars or other linguists may still need to improve it further yet. In particular, the area of minimal pairs is likely to be revised and new distinguishing methods added as people come across new confusing pairs of written lexical words. We however hope that this proposal will contribute to enabling speakers of Naami to make a breakthrough in learning to more easily read and write their language.

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# 9 Appendix: Tone Lexical Minimal Pairs with Arbitrary Spelling Conventions

The following is a list of minimal pairs in Naami where the words are spelled the same except for the tone on the words. The words are listed first as minimal pairs, followed by their tone pattern and then in bold typing is the spelling in current use for each word and finally the English meaning.

Mininal pairs	Tone	Current Naami spelling	Gloss
ba ba	M L	bah ba	marriage always/remain
bia bia	H <b>L</b>	biah bia	married slap
bə	Н	bá	they
bə	Н	bá	them
bə	L	bə	you (pl)
bəche	M M	bəche	forefathers
bəche	M H	bəcheh	gods
bəŋ	L	bəŋ	you (pl)
bəŋ	M	bəŋŋ	my
bəŋ	Н	bəhŋ	this
bəŋ	Н	bbəŋ	which
kidaŋ	LH	kidahŋ	local tattoo on
			the face
kidaŋ	LL	kidaŋ	table
bii	M	biih	his
bii	MH	bii	ask

b <del>i</del> ŋ	M	b <del>i</del> ŋ	dance (v)
b <del>i</del> ŋ	L	b <del>i</del> ŋŋ	my
b <del>i</del> ŋ	Н	b <del>i</del> hŋ	this
b <del>i</del> ŋ	Н	bb <del>i</del> ŋ	which
bo	Н	boh	ice
bo	M	bo	hammer
bu	Н	buh	heaven
bu	Н	bu	like/ash
bwi	M	bwih	famine
bwi	Н	bwi	dog
bwii	M	bwiih	his
bwii	Н	bwii	fire, arrive
cha	HL	chah	story
cha	L	cha	poison (n.)
cha	Н	cha	old man
		_	
chu	Н	chu	God
chu	Н	chu	turn -
chu	Н	chuh	palm nut
chu	Н	chu	excrement
1.	3.5	1 11	C
chi	M	chih	cover of
1.			something
chi	L	chi	put
chi	Н	chi	waist
1_	7.7	1-1-	
da	Н	dah	scrotum •.
da	L	da	commit
dom	T	dala	d
dəŋ	L	dəhŋ	decorate

dəŋ	HM	dəŋ	also
du	Н	du	gossip
du	Н	du	stomp
du	Н	duh	make someone
			angry
du	Н	du	harass
dun	Nπ	dun	sta.
duŋ	M	duŋ	stay bo
duŋ	L	duhŋ	be
duŋ	L	duŋ	happen
fa	L	fa	calculate
fa	L	fa	check
fa	L	fah	carve
fii	M	fiih	his
fii	Н	fii	burn, turn
finch <del>i</del> ŋ	LL	finch <del>i</del> hŋ	curse
finchɨŋ	L L	finchɨŋ	bead
C)	_	a.	
f <del>i</del> ŋ	L	fɨŋŋ	my
fiŋ	Н	fihŋ	this
f <del>i</del> ŋ	Н	ff <del>i</del> ŋ	which
			1
ga	L	ga	divise
ga	L	ga	distribution
ga	Н	gah	transfer
œ22	ъл	gaah	ache
gaa	M M	gaah	
gaa	M	gaa	break
gaa	M	gaa	circle

gbu gbu gbu	L H HM	gbuh gbu gbu	boat foot yesterday
hlaa	M	hlaah	govern
hlaa	L	hlaa	first/before/clear
hlaanə		hlaahnə	cutting judge (n)
ka	L	kah	pass/complete
ka	M	ka	charcoal/wrap
kə	M	kkə	we
kə	M	kə	not
kə	L	kə	slap
kə	M	kəh	shift in time
kee	L	kee	look
kee	MH	keeh	teach
kilaŋ	LH	kilahŋ	small clear pot
kilaŋ	LL	kilaŋ	order/decree
kii	M	kiih	his
kii	Н	kii	month
kinchaa	M HL	kinchaah	a flame for weaving bag
kinchaa	L HL	kinchaa	light
kinduŋ	L L	kinduŋ	life
kinduŋ	LL	kinduhŋ	nature
minauj		minauin	ratu c

kɨŋ	L	kɨŋ	win
kɨŋ	M	kɨŋ	serpent
kɨŋ	M	kɨŋŋ	my
kɨŋ	Н	k <del>i</del> hŋ	this
kɨŋ	Н	kkiŋ	which
kwaa	L	kwaah	tie heart
kwaa	Н	kwaa	only
kwoo	Н	kwooh	сир
kwoo	M	kwoo	head
kpa	Н	kpah	drag/drive
kpa	ML	kpa	field
kpε	L	kpeh	bachelor
kpε	HM	kpε	woman
_			_
lo	HL	loh	anger/hurt
lo	L	lo	weave
1	3.6	1111	1.
lii 	M	liih	his
lii	M	liih	remove from its
	T		handle
ma	L	ma 1-	compare
ma	Н	mah	mother
maa	M	maa	aun
maa	L	maa maah	gun with/and
maa	ь	illaali	wun/ una
man	M	mann	mv
məŋ məŋ	IVI H	məŋŋ məhŋ	my this
məŋ	н Н	mməŋ	which
11191]	11	mməŋ	witten
mii	M	miih	his
11111	141	1111111	ius

mii	M	mii	to press
muŋ	M	muŋŋ	my
muŋ	Н	muhŋ	this
muŋ	Н	mmuŋ	which
	ъл	ah	ubito anto
mwa	M	mwah	white ants
mwa	HM	mwa	your mother
n <del>i</del> ŋ	L	n <del>i</del> ŋ	work (v)
n <del>i</del> ŋ	L	ո <del>i</del> ŋ	fear (v)
n <del>i</del> ŋ	Н	ո <del>i</del> hŋ	refuse (v)
nɨŋ	Н	n <del>i</del> ŋ	bite (v)
			,
nu	H	nuh	knee
nu	Н	nu	this
ŋəŋ	L	ŋəŋ	иproot
ŋəŋ	M	ŋəŋ	see
ŋəŋ	M	ŋəŋŋ	my
ŋəŋ	Н	ŋəhŋ	this
ŋəŋ	Н	ŋŋəŋ	which
ŋii	M	ŋiih	his
ŋii	ML	ŋii	shell of
			porcupine
ŋka			. 1
ta	MH	tah	father
ta	Н	ta	sting
tə	M	təh	three
tə	L	tə	burst

33W	Н	wee	weed (v.)
33W	ML	weeh	farm (n.)
33W	M	wee	part (n)
33W	M	wee	build (v)
33W	L	wee	slow
wii	M	wiih	his
wii	Н	wii	stop crying
wu	M	wu	him
wu	Н	wuh	feet
wuŋ	M	wuŋŋ	my
wuŋ	Н	wuhŋ	this
wuŋ	Н	wwuŋ	which
ya	M	yah	redeem
ya	Н	ya	F3
yii		yiih/yíih	his/class 10
yii		yii	name, type of
			pepper