# Naami Orthography Guide 

by<br>Grace Tabah<br>2011<br>Revised by<br>Bonny Li \& Njinyi Tasiana Atenchong<br>With input from Bep Langhout<br>2016<br>Second revision by Blaise Mkounga Tala<br>2023<br>SIL<br>B.P. 1299, Yaoundé, Cameroon

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

ISO 639-3 language code: bzv.

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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 P0 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 Most of these issues came up when the present author worked on Naami verb paradigms (2019: unpublished manuscript).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 tone |
| L | Low tone |
| M | 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)

I would like to thank Stephen Anderson and Bep Langhout for their considerable help with this work. Their expertise helped me to get more experience in the linguistic domain. I equally wish to express my gratitude to Dr. Richard Boutwell, for his invaluable comments.

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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 $w e "$ 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: $\mathbf{c h}=[\mathrm{t}]$, $\mathbf{s h}=\left[\int\right], \mathbf{j}=[\mathrm{b}], \mathbf{n y}=[\mathrm{n}], \mathbf{y}=[\mathrm{j}]$ and $\mathbf{h l}=[\mathrm{d}]$.

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:



### 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 <br> position | Medial <br> position | Final <br> position |
| :--- | :--- | :--- | :--- | :--- | :--- |
| /p/ | [p] | P p | pway <br> honey | bəpampa <br> tins | - |
| /t/ | [t] | T t | tələ <br> cane | fitu <br> forehead | - |
| /k/ | [k] | K k | kinaay <br> ringworm | fika <br> botle | - |
| /b/ | [b] | B b | bufe <br> wisdom | nlobi <br> weaver | - |
| /d/ | [d] | D d | dontə <br> explain | fidu <br> dove | - |

[^0]| Phoneme | Allophone | Grapheme | Initial position | Medial position | Final position |
| :---: | :---: | :---: | :---: | :---: | :---: |
| /g/ | [g] | G g | gahi <br> subtract | kiga <br> mat | - |
| /kp/ | [kp] | Kp kp | kpii <br> moon | kikpuy noise | - |
| /gb/ | [gb] | Gb gb | gbo <br> body | kigboto <br> wooden bicycle | - |
| /t $\mathrm{t} /$ | [tS] | Ch ch | Chu <br> God | fichuli mole | - |
| /d3/ | [d3] | J j | joo grave | kijo <br> mouth | - |
| /f/ | [f] | F f | fomi <br> fat | njaafa wander | - |
| /4/ | [d] | Hl hl | hle <br> think | kohlo limp | - |
| / $/ 1$ | [S] | Sh sh | shaali sprinkle | busho <br> hunt (v) | - |
| /h/ | [h] | H h | həmə <br> point (n) | fwohi <br> ferment (v) | - |
| /m/ | [m] | M m | $\begin{aligned} & \text { moy } \\ & \text { try } \end{aligned}$ | bemi accept | - |
| /n/ | [n] | N $n$ | $\begin{aligned} & \text { nuh }^{2} \\ & \text { knee } \end{aligned}$ | yכoni <br> breathe | - |
| /n/ | [n] | Ny ny | nyey <br> slaughter | finyini <br> bird | - |
| /y/ | [ $]$ ] | \ $\mathfrak{y}$ | y $\varepsilon$ عk <br> praying <br> mantis | deya okra | kway hand |
| /w/ | [w] | W w | woomə squat | fiwo <br> grinding stone | - |
| /1/ | [1] | L 1 | $\begin{aligned} & \text { libi } \\ & \text { lake } \end{aligned}$ | wələ <br> listen | - |

[^1]| Phoneme | Allophone | Grapheme | Initial <br> position | Medial <br> position | Final <br> position |
| :--- | :--- | :--- | :--- | :--- | :--- |
| $/ \mathrm{j} /$ | $[\mathrm{j}]$ | Y y | yoo <br> hot weather | kiyaa <br> 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 ( $m, n$ 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 | ntin <br> saliva | kintay bed | - |
| /Nk/ | [10] | Пk yk | ykəənə <br> eyebrow | kinkaa chair | - |
| /Nb/ | [mb] | $\mathbf{M b} \mathbf{~ m b}$ | mbay <br> fence | fimbi <br> cola nut | - |
| /Nd/ | [nd] | Nd nd | ndəy <br> tears | findəy <br> fig tree | - |
| / Ng / | [gg] | 7g 9 g | ygon <br> blood | kingo womb | - |
| /Nkp/ | [ ykp ] | Økp ykp | ŋkpənə <br> quarrel | kiykpee conclusion |  |
| /Ngb/ | [ıgb] | Пgb ygb | ygbe <br> fail | kiygbey <br> pus | - |
| /Nt $/$ | [nt5] | Nch nch | nchín <br> (be) drunk | finchin bead | - |
| /Nd3/ | [nd3] | Nj nj | nje <br> urine | kinji diarrhea | - |
| /Nf/ | [mf] | Nf nf | nfiinə <br> pretend | bənfə <br> react | - |
| /N1/ | [n4] | Nhl nhl | nhlinə <br> drip | kinhlay back | - |


| Consonant cluster | Allophone | Grapheme | Initial position | Medial position | $\begin{array}{\|l\|} \hline \text { Final } \\ \text { Position } \end{array}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| /NS/ | [ n ] | Nsh nsh | $\begin{aligned} & \text { nsheyke } \\ & \text { rag } \end{aligned}$ | bunshekuy <br> country <br> Sunday | - |
| /Nl/ | [nl] | N1 nl | nlo <br> pain (n) | mənlo <br> alcohol | - |
| /Nw/ | [ yw ] | I'w y'w | y'wé weeding | kiy'wa shirt |  |
| /Nj/ | [ nj ] | N'y n'y | n'уәә pushing | kin'yohi <br> 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 <br> a way of wearing traditional dress (v) | - | - |
| /tj/ | [tj] | Ti ti | tife <br> tree | butic cave | - |
| /kj/ | [kj] | Ki ki | kiعє <br> fingernail | kikiaakia dragonfly | - |
| /bj/ | [bj] | Bi bi | biaa wound, sore | bibiaa leaves | - |
| /dj/ | [dj] | Di di | die voice | fidice now | - |
| /gj/ | [gj] | Gi gi | giaali <br> shame ( $n$ ) | - | - |
| /fj/ | [fj] | Fi fi | fion <br> cotton | finfiay <br> ring (finger) | - |


| Consonant complex | Allophone | Grapheme | Initial position | Medial position | Final position |
| :---: | :---: | :---: | :---: | :---: | :---: |
| /pj/ | [pj] | Pi pi | pia <br> a way of wearing traditional dress (v) | - | - |
| /tj/ | [tj] | Ti ti | tife tree | butic cave | - |
| /kj/ | [kj] | Ki ki | kice <br> fingernail | kikiaakia dragonfly | - |
| /mj/ | [mj] | Mi mi | miaali <br> blink | - | - |
| $/ \mathrm{gj} /$ | [ yj ] | Пi yi | yiay <br> child | finiaa <br> 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 $\mathbf{w}$. The consonants that may be followed by this glide are illustrated in the following table.

| Consonant <br> complex | Allophone | Grapheme | Initial <br> position | Medial <br> position | Final <br> Position |
| :--- | :--- | :--- | :--- | :--- | :--- |
| /pw/ | $[\mathrm{pw}]$ | Pw pw | pway <br> liquid honey | - | - |
| /kw/ | $[\mathrm{kw}]$ | Kw kw | kway <br> hand | bəkwé <br> women | - |
| /bw/ | $[\mathrm{bw}]$ | Bw bw | bweenə <br> arm | kibwey <br> shoulder | - |
| /gw/ | $[\mathrm{gw}]$ | Gw gw | - | ygwa <br> aubergine | - |
| /tโw/ | $\left[\mathrm{t} \int \mathrm{w}\right]$ | Chw chw | chway <br> monkey | finchway <br> support <br> stone | - |


| Consonant complex | Allophone | Grapheme | Initial position | Medial position | $\begin{array}{\|l\|} \hline \text { Final } \\ \text { Position } \end{array}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| /d3w/ | [d3w] | Jw jw | jwa <br> cook | kinjway <br> decorate | - |
| /fw/ | [fw] | Fw fw | fwee <br> hair | bəfwe two | - |
| /Sw/ | [ w ] | Shw shw | shwaanə <br> mark out | kishwa flood | - |
| /mw/ | [mw] | Mw mw | mwaa millet | limwi razor | - |
| /nw/ | [nw] | Nw nw | nway <br> bamboo | binwa four | - |
| /yw/ | [ทw] | Jw yw | ywi <br> drink | kiywaati <br> 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 $\mathbf{y}$. We can have other consonants in borrowed words or names, like, Lut Ruth, kosh course.
b. The $\mathbf{h}$ at word final position is not pronounced but only used to distinguish minimal pairs, see section $4.3 \quad$ Writing noun and verb minimal pairs
c. If you hear the lateral fricative [1] like in the word hlahi scatter, write hl.
d. If you hear a nasal consonant before $\mathbf{k}, \mathbf{g}, \mathbf{k p}, \mathbf{g b}$, always write $\mathbf{y}$.
e. If you hear a nasal consonant before $\mathbf{t}, \mathbf{d}, \mathbf{s h}, \mathbf{c h}, \mathbf{j}, \mathbf{1}, \mathbf{h l}$ or $\mathbf{f}$, always write $\mathbf{n}$.
f. If you hear a nasal consonant before $\mathbf{b}$, always write $\mathbf{m}$.

### 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] | I i | I he/she | biili <br> rib (n) | bihi <br> spoil |
| /e/ | [e] | E e | eee <br> yes | kweli jaw (n) | ngbete <br> birth pains |
| / $\varepsilon$ / | [ $\varepsilon$ ] | $\mathcal{E} \varepsilon$ | - | buhleli <br> (be) thin | k $\boldsymbol{\varepsilon}$ bowl |
| /i/ | [i] | £ | ihiny aha | kifin <br> brain | ŋki <br> tune (v) |
| /ə/ | [ə] | Ə ә | $\begin{aligned} & \mathrm{O} \\ & \text { if } \\ & \hline \end{aligned}$ | chələ eyelash | chəə <br> heel |
| /a/ | [a] | A $\mathbf{a}$ | akpolo <br> seed from a <br> tree (sp.) | nyay <br> urinate | jafa <br> stand up |
| /u/ | [u] | $\mathrm{U} \mathbf{u}$ | - | yunə get well | ygulu <br> vulture |
| /o/ | [o] | 0 o | 000! exclamation | fobi <br> skin (of <br> fruit) | kwo catch (v) |
| /3/ | [จ] | $\bigcirc \bigcirc$ | - | yכoni <br> breathe | chons <br> 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 <br> di <br> /di/ | dì̀] |

### 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 | [kə̀] | slap (v) |
| Low-High | [jǒ] | louse |
| Low-Mid | [1̌̆] | 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 | [d3à] | [d3á] | weaver-bird(s) |
| Low - High | [ţàn] | [t¢ág] | room(s) |
| Low - Falling HL | [hlù] | [hlû] | giraffe(s) |
| Mid - High | [kīp] | [kín] | 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 |
| jè | hippopotamus | jéy | hippopotami |
| shəy | sheep | shóy | sheep |
| jū | antelope | júy | antelopes |
| yo | snake | yó | 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 P 2 tense marker is written as the unmarked ma. We can see this in the examples below.

| Wə | ma | kə | gəŋnə | fogbu | lə. |
| :--- | :--- | :--- | :--- | :--- | :--- |
| $2 s$ | P2 | not | went | yesterday | CP |

You did not go yesterday.
I ma fэŋna fibe.
3s P2 sharpen knife.
He sharpened a knife (before today)
I mà foyna fibe.
he P3 sharpen knife
He sharpened a knife long ago.

| Mbé | ju | nnu | bá mà | chee lə Joэy. |  |
| :--- | :---: | :---: | :--- | :---: | :--- | :--- |
| Person | some | who | they P 3 | 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 [yā] is used to indicate an event that will occur in one to three days, while the F3 marker [yá] 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 yá while the F2 tense marker is left unmarked as in ya, as below.

Bá yá gəy bwe.
they F3 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 gáy kìywàatì.
3S go.F0 school
He will go to school.

Ì gàn kìŋwàatì.
3S go.HORT school
He 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 ( ${ }^{\wedge}$ ) over the first vowel of the verb in all hortative sentences, as follows.

I gəy kiywaati. He will go to school. (immediate future)
I gây kiywaati. 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 FO is marked, as we can see in the examples below.

|  | Positive form | Negative form |
| :--- | :--- | :--- |
| P0 | Ì gàyná kìywàatì. | Ì ká gàyná kīywāatī ká. |
| PERF | 3S go.P0-PFV school <br> He has gone to school. | He has not gone to school. |
| HORT | Ì gày kìnwàatì. <br> 3S go.HORT school <br> He should go to school. | Ì kə̄ gàyná <br> 3S NEG go.HORT.REAL school NEG <br> 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 gây kiywaati.
He should go to school.

## I ka gâŋnnə kiŋwaati kə.

He should not go to school.

## I gəŋ kiywaati.

He will go to school.

## I gəy nə kiywaati.

He will not go to school.

### 3.2.5 Habitual aspect ${ }^{3}$

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 gáy kìnwàatì. 3S go.F0 school He will go to school. | Ì gán ná kīywāatī kó. 3S go.FO NEG school NEG He will not go to school. |
| Habitual | Ì gə̄ŋ kìŋwàatì. <br> 3S go.HAB school <br> He goes to school. | Ì gə̄ŋ nə́ kīywāatī kó. 3S go.HAB NEG school NEG 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 gàn kiŋwaati.
3S go.HAB school
He goes to school.

I gəy kiywaati.
3S go.F0 school
He will go to school.

I gə̀y nə kiywaati kə. 3S go.HAB NEG school NEG He does not go to school. I gəy nə kiywaati kə. 3S go.F0 NEG school NEG He will not go to school.

[^2]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 |
| :---: | :---: | :---: |
| HAB | Ì gə̄ŋ kìywàatì. 3S go.HAB school He goes to school. | Ì gə̄y ná kīywāatī kó. 3S go.HAB NEG school NEG He does not go to school. |
| PRES PROG | Ì yú gə̄ŋ kìywàatì. 3S PROG go school He is going to school. | Ì gə̄ŋ ná kīywāatī kó. 3S go.PROG NEG school NEG He is not going to school. |
| F0 | Ì gə́n kìywàatì. 3S go.F0 school He will go to school. | Ì gə́n ná kīŋwāatī kó. 3S go.FO 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 $\mathbf{y u}$ 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 |
| :---: | :---: | :---: | :---: |
| 䓓 | I gà kiywaati. <br> 3S go.HAB school <br> He goes to school. | I yu gāŋ kiywaati. 3S PROG go school He is going to school. | I gəy kiywaati. <br> 3S go.FO school <br> He will go to school. |
|  | I gə̀y nə kiywaati kə. 3S go.HAB NEG school NEG He does not go to school. | I gāy nə kiywaati kə. <br> 3S go.PROG NEG school NEG <br> He is not going to school. | I gəy nə kiywaati kə. 3S go.FO NEG school NE 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. ${ }^{4}$

### 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):

|  | Habitual | Progressive | Immediate future |
| :---: | :---: | :---: | :---: |
| $\begin{aligned} & \stackrel{y}{3} \\ & 0 \\ & 0 \end{aligned}$ | I gə̄ŋ kiywaati. <br> 3S go.HAB school <br> He goes to school. | I yu gāy kiywaati. <br> 3S PROG go school <br> He is going to school. | I gəy kiywaati. <br> 3S go.FO school <br> He will go to school. |
|  | I gə̄ y nə kiywaati kə. 3S go.HAB NEG school NEG He does not go to school. | I gə̄y nə kiywaati kə. 3S go.PROG NEG school NEG He is not going to school. | I gəy nə kiywaati kə. 3S go.F0 NEG school NE He will not go to school. |


|  | Positive form | Negative form |
| :---: | :---: | :---: |
| 号 | Dódí gə̀n kìywàatì. <br> Dódí go.HORT school <br> Dodi should go to school. | Dódí kə̄ gày-ná kīŋwāatī kź. Dodi NEG go.HORT-REAL school NEG Dodi should not go to school. |
| 吕 | Dódí, gày kìywàatì! <br> Dodi, go school <br> Dodi, go to school! | Dódí, kə̄ gày-ná kīywāatī ká! Dodi, NEG go-REAL school NEG Dodi, don't go to school! |

When we look at the contrasting hortative and SVO imperative sentences, we see that there is no segmental morphological or even tonal change. Thus it is that the presence or absence of the pause after the subject in imperative constructions is the crucial difference between these two sentences. Therefore, if the hortative positive and negative forms are both marked with the circumflex ( ${ }^{\wedge}$ ) diacritic on the verb and a full stop at the end of the sentence, it is good to put a comma after the subject in both the positive and negative forms of SVO imperatives and an exclamation mark at the end of these sentences. This will help the reader to easily distinguish the difference between hortative and imperative. These orthographic conventions are exemplified below.

|  | Imperative with subject | Hortative |
| :--- | :--- | :--- |
| Positive form | Dódí, gəŋ kiŋwaati! <br> Dodi, go to school! | Dodi gə̂ŋ kiŋwaati. <br> Dodi should go to school |
| Negative form | Dódí, kə gəŋnə kiŋ̣waati kə! <br> Dodi, don't go to school! | Dodi kə gə̂ŋnə kiŋwaati kə. <br> 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 $\mathrm{V}(\mathrm{O})$ 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: | Gəŋ kiywaati! | Go to school! |
| :--- | :--- | :--- |
| Negative form: | Kə gəŋnə kiŋwaati kə́! | 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 $\mathbf{y}$ and the adding of a silent $\mathbf{h}$ 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 $m y$, 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 $\mathbf{y}$ 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 $\mathbf{h}$ before the final $\mathbf{y}$. If the word is consonant plus vowel like ni for instance, add $\mathbf{h}$ at the end like nih. Except nu where h is used for the word knee instead, as we see in the table below.

| Class | Example <br> words | Possessive pronoun my | Relative pronoun | Demonstrative pronoun this |
| :---: | :---: | :---: | :---: | :---: |
| 1 | ykols <br> box | ygwəy ${ }^{5}$ | nnu | nu |
| 2 | bəykolo <br> boxes | bəŋy | bbəy | bəhy |
| 3 | nway <br> bamboo | wuy】 | wwuy | wuhy |
| 5 | limwi razor | ling | 11 y | lihy |
| 6 | yəmwi razors | уəŋ】 | ทŋəy | ŋəhy |
| 7 | kimbaa <br> snail | kiyy | kkin | kihy |
| 8 | bimbaa <br> snails | biyy | bbiy | bihy |
| 9 | jii <br> hoe | njəy | nni | nih |
| 10 | jíi <br> hoes | yiny | yyin | yihy |
| 14 | butic cave | buy | bbuy | buhy |
| 19 | fiyka <br> bottle | finy | ffiy | fihy |
| 18a | mwinka <br> bottles | muyy | mmuy | muh |
| 25 | mentic caves | məŋy | mməy | məhy |

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

[^3]at the beginning of the word and the demonstrative pronouns this with the silent $\mathbf{h}$ before the final $\mathbf{y}$.

### 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 $\mathbf{h}$ at the end of the possessive his and leaving the other meanings unmarked, as we see in the table below.

| Class | Example <br> word | Possessive <br> his | Other meanings |
| :---: | :---: | :---: | :---: |
| 1 | ykols <br> box | wih | wi over there |
| 2 | bəŋkolo <br> boxes | biih | bii <br> ask |
| 3 | nway <br> bamboo | wiih | wii <br> stop <br> crying |
| 5 | limwi razor | liih | lii <br> remove a hoe from its handle |
| 6 | yəmwi <br> razors | yiih | nii <br> shell of a porcupine |
| 7 | kimbaa <br> snail | kiih | kii <br> type of weaving plan |
| 8 | bimbaa <br> snails | biih | bii ask |


| Class | Example <br> word | Possessive <br> his | Other <br> meanings |
| :--- | :--- | :--- | :--- |
| $\mathbf{9}$ | jii <br> hoe | yih | yi <br> cave/cliff |
| $\mathbf{1 0}$ | jíi <br> hoes | yiih/yíih | yii <br> name, type <br> of pepper |
| $\mathbf{1 4}$ | butic <br> cave | bwiih | bwii <br> fire, arrive |
| $\mathbf{1 9}$ | figka <br> bottle | fiih | fii <br> burn, turn |
| $\mathbf{1 8 a}$ | mwiyka <br> bottles | mwiih | --- |
| $\mathbf{2 5}$ | mentiع <br> caves | miih | mii <br> to press |

Rule 11: Write any possessive adjective his by adding an $\mathbf{h}$ 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 $\mathbf{y}$, write the $\mathbf{h}$ before the $\mathbf{y}$, 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 | nin | work | nihy | refuse | nihyna | refused |
| CVCV(y) | finchin | bead | finchihy | curse |  |  |

Rule 12: If two words are easily confused with each other, choose the less common in daily usage and add a silent $\mathbf{h}$ after the last vowel of the root. If the word ends with $\mathbf{y}$ like nin refuse, add the silent $\mathbf{h}$ before the $\mathbf{y}$ giving nihy refuse. If the word is a verb, the past perfective will be written with the perfective suffix attached to the verb, for instance nihyna refused and nihynə not refuse. If the word is a verb of CVV structure like kee look, the $\mathbf{h}$ 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 $\mathbf{h}$ and the suffix to visually separate the $\mathbf{h}$ from the $\mathbf{l}$, giving for instance keeh'la taught and keeh'lo 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 bə and third person plural bá

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 fwola 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 bá and leave the parallel second person plurals unmarked, giving bə.

### 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:
kpaykpaykpay 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
gbaaay sound of the door closed with force
waaa sound of running water
ygכoэ sound of a lion roaring
yaaay 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 |
| finchin | bead | mwinchin | 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 <br> words | Gloss | Possesive | Gloss |
| :--- | :--- | :--- | :--- | :--- |
| noun class 1 | ykələ | box | bə | their |
| noun class 2 | bəŋkəl? | boxes | bəbə | their |
| noun class 3 | nway | bamboo | wibə | their |
| noun class 5 | limwi | razor | libə | their |
| noun class 6 | Náy | bamboos | yəbə | 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 | butiを | cave | bubə | their |
| noun clsss 18a | munhluy | antenna | mubə | their |
| noun class 19 | finhluy | antennas | fibə | their |
| noun class 25 | məntiع | caves | məbə | their |

## Numerals

| $\begin{aligned} & \hline \text { Classe } \\ & \text { s } \end{aligned}$ | Example words | Gloss | two | three | four |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 2 | bəŋkols | boxes | bəfwe | bəto | bənwa |
| 6 | náy | bamboos | fwe | to | na |
| 8 | bimbaa | snails | bifwe | bito | binwa |
| 10 | jíi | hoes | fie | sho | nya |
| 19 | munhluy | antennas | munfwey | muntoy | munwaani |
| 25 | məntic | caves | məmfwe | məntəy | mənwaani |

Demonstratives

| Class | Example words | Gloss | Proximal | Distal | Far distal |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | ykols | box | nu | yo | kwi |
| 2 | bəŋkols | boxes | bəy | bie | bəli |
| 3 | nway | bamboo | wuy | we | wili |
| 5 | razor | limwi | lin | le | lili |
| 6 | náy | bamboos | yəy | yie | yili |
| 7 | kimbaa | snail | kiy | kie | kili |
| 8 | bimbaa | snails | biy | bie | bili |
| 9 | jii | hoe | ni | ye | ki |
| 10 | jíi | hoes | yin | ye | yili |
| 14 | butic | cave | buy | bwe | bwili |
| 19 | finhluy | antenna | fiy | fie | fili |
| 18a | mwinhluy | antennas | muy | mwe | mwili |
| 25 | məntí | caves | məy | mie | mili |

## Quantifiers

| Class | Example words | Gloss | all | some | many |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 2 | bəjkols | boxes | benhliy | bədi | bəkijay |
| 6 | náy | bamboos | yənhliy | yəndi | yəkiyay |
| 8 | bimbaa | snails | binhliy | bidi | bikiyay |
| 10 | jíi | hoes | yinhliy | yidi | yikiyay |
| 19 | mwinhluy | antennas | munhliy | mundi | mukiyay |
| 25 | məntí | caves | mənhliy | məndi | məkiyay |

Adjectives
a. kiywaati
c7.book small book
b. cháy
c10.houses
white houses
white houses
kitənə
c7.small
yiwu
c10.white

| c.budien buykuntay <br> c14.bridge  <br> cig 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.

| gbey | wi |  | tice |
| :---: | :---: | :---: | :---: |
| c3.root | c3.AM |  | c7.tree |
| root of tre |  |  |  |
| we¢ | ki |  | boloks |
| c7.farm | c7.AM |  | c1.cassava |
| cassava fa |  |  |  |
| sháy |  | yi | bilika |
| c10.seed |  | c10.AM | M c1.pawpaw |
| pawpaw s |  |  |  |

### 5.4 Compound nouns

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.

| $\mathbf{k p e \varepsilon}$ | $\mathbf{y k u}$ |
| :--- | :--- |
| c1.woman | ancestor |
| widow |  |


| mbé | kpuuni |
| :--- | :--- |
| c1.person | visit |
| visitor |  |
| ywa | nshっy |
| c1.child | sheep |
| lamb |  |

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

### 5.5 Verbal Aspects and Causative Markers

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

| dii | call | diila | called |
| :--- | :--- | :--- | :--- |
| gəy | go | gəŋna | went |
| 1〕 | afraid | lohiy | 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 $\mathbf{h}$, where the $\mathbf{h}$ indicates a special addition to disambiguate a tonal minimal pair dintinction, the $\mathbf{h}$ 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/-lo. This apostrophe is added to indicate that the $\mathbf{h}^{\prime} \mathbf{l}$ is not the normal $\mathbf{h l}$ 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 | $3 S$ NEG go.PFV.NEG | NEG |
| He has gone. | He has not gone. |  |
| $\mathbf{I}$ diee. | I kə diee | kə. |
| 3S eat.PFV | 3S NEG eat.PFV.NEG | NEG |
| He ate. | He did not eat. |  |


| yu gə̄ y ch>. | I gā ${ }^{\text {g }}$ nə cho |
| :---: | :---: |
| 3S PROG go church | 3S go.IPFV NEG church |
| He is going to church. | He is not going to church. |
| I gà y chı. | I gò y nə chə kə. |
| 3 S 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 -lə or -nə appear in negative constructions. Thus, the variants -na and -nə are the opposing suffixes for CVC verbs while variantes -la and -lə 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 -lə or -nə instead of their positive counterparts. These latter are written the same as the negative particle words lo or nə 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 nə 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 dì | de. | I | dì̀ | $\mathbf{l a}$ | de | kə. |
| :--- | :--- | :---: | :--- | :--- | :--- | :--- |
| 3S eat.HAB | beans | $3 S$ | eat.HAB | NEG | beans | NEG |
| He eats beans. | He does not eat beans. |  |  |  |  |  |

I kày fioy.
3S fry.HAB fish
He fries fish.
de.
beans

I kày nə fion kə. 3S fry.HAB NEG fish NEG He does not fry fish.

## Present Progressive

I yu kāy fỉy.
3S PROG fry fish
He is frying fish.
I yu nyāa chəy.
3S PROG sweep house
He is sweeping the floor"

## Immediate future

I kay fioy.
3S fry.F0 fish
He will fry fish.

I yá wé chəy.
3S F3 build house
He will build a house.

I kāy nə fion kə.
3S fry.PROG NEG fish NEG
He is not frying fish.

3S sweep.PROG NEG house NEG
He is not sweeping the floor.

I kay nə fiəy kə.
3S fry.FO NEG fish NEG
He will not fry fish.

I yá wé lə chəy kə.
3S F3 build NEG house NEG
$H e$ will not build a house.

Rule 21 ${ }^{\text {º }}$ : Write the normal negative particles nə and lo separated from the verb in progresssive, habitual and future constructions (in this case, the nə or lo appears after the verb and there is no kə before the verb), but write the negative past perfective suffixes -nə/-lə attached to the verb like their counterparts of the positive form -na/-la (in this case, you have two kə negative morphemes, one before the verb and one at the end of the sentence).

[^4]
### 5.5.2 Nouns formed from verbs (i.e. "verbal nouns")

It is possible to turn verbs into nouns by adding a nasal $\mathbf{n}, \mathbf{m}, \mathbf{y}$ before the word. For instance:

If you hear a nasal before $\mathbf{d , t} \mathbf{t} \mathbf{s h}, \mathbf{c h}, \mathbf{h l}, \mathbf{j}, \mathbf{1 , f}$, write $\mathbf{n}$.

| to | insult | nto | insult |
| :--- | :--- | :--- | :--- |
| jaa | move | njaa | moving |
| di | eat | ndi | eating |
| jii | kill | njii | killing |
| fwכo | borrow | nfwכo | borrowing |

Write $\mathbf{m}$ only before a noun that starts with $\mathbf{b}$.

| bin | dance | mbin | dancing |
| :--- | :--- | :--- | :--- |
| bwo | come | mbwo | coming |

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

| ywi | drink | yŋwi | drinking |
| :--- | :--- | :--- | :--- |
| mway | suck | mmway | sucking |
| nכŋ | sleep | nnэy | sleeping |

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

| yoد | talk | n'yoد | talking (n.) |
| :--- | :--- | :--- | :--- |
| wé | build | y'wé | building (n.) |

Rule 22: Nouns formed of verbs will be written by attaching a nasal prefix (m, $\boldsymbol{n}$, or $\boldsymbol{y})$ before the word. For verbs having initial consonants which are nasals, their initial consonants are doubled for the noun forms. For verbs starting with $\boldsymbol{w}$, or $\boldsymbol{y}$, 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 ${ }^{7}$

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 $\mathbf{m}, \mathbf{n}$ or $\mathbf{y}$ (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 |
| :--- | :--- | :--- | :--- |
| biey | write | mbìey | I write |

For verbs starting with a nasal consonant $/ \mathrm{n} /, / \mathrm{m} /$ and $/ \mathrm{y} /$, double the initial consonant.

| yaŋ | vomit | Øŋà̀ | I vomit |
| :--- | :--- | :--- | :--- |
| nə | give | nnə̀ | I give |
| manta | compare | mmànta | I compare |

For verbs starting with the $/ \mathrm{n} /$ represented by the basic consonant digraph ny, add $\mathbf{n}$ in front of the verb.
nyi excrete nnyì I excrete

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

| wii | wash | y'wìi | I wash |
| :--- | :--- | :--- | :--- |
| ya | 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 $\mathbf{y}$ 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.

[^5]
### 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 $\mathbf{n}, \mathbf{m}$ or $\mathbf{y}$ having the same place of articulation as the first consonant of the verb root). Examples:

| ga | divide | bəyga | to divide |
| :--- | :--- | :--- | :--- |
| jaa | move | bənjaa | to move |
| buhuy | gather | bəmbuhuy | to gather |

Rule 25: If the verb starts with the nasal $\mathbf{m}, \mathbf{n}$ or $\mathbf{y}$, do not double it, write only bə + verb instead.

| nə | give | bənə | to give |
| :--- | :--- | :--- | :--- |
| mə | taste/try | bəmə | to taste/try |
| ywaa | 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 | bəy'wee | to build |
| :--- | :--- | :--- | :--- |
| yos | say | bən'yos | to say |

### 5.6 Numerals

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

## fumanyaay

10 yuufi

| 101 | gbi bi mwe |
| :--- | :--- |
| 200 | gifwe |
| 300 | gits |
| 1000 | nchuku |
| 2000 | bənchuku bəfwe |
| 3000 | bənchuku bəts |

### 5.7 Completer

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 lo.
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 | gəy | shi | bəy. |
| :--- | :--- | :--- | :--- | :--- |
| 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.
Wo diee ge mwとhin?
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 $\quad$ fəy! |  |
| :--- | :--- |
| Come | here |
| Come here! |  |

### 6.4 Comma

Commas are used to separate clauses or parallel words within a clause, as below:
Njayko yo bə fibeka, shóy fie, bə bi.
Njayko 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 biey biy: 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 yoslə, "Jay lə bwo day."
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 gəy Doy.
We F2 go Sabongida.
We shall go to Sabongida.
⿹ashi ma keeh'la Gabushi, Jgona 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 <br> pairs | Tone | Current Naami <br> spelling | Gloss |
| :--- | :--- | :--- | :--- |
| ba | M | bah |  |
| ba | L | ba | marriage <br> always/remain |
| bia | H | biah <br> bia | married <br> biap |
| bə | H | bə́ | they |
| bə | H | bə́ | them |
| bə | L | bə | you (pl) |
| bəche | M M | bəche | forefathers |
| bəche | M H | bəcheh |  |


| biy | M | biy | dance (v) |
| :---: | :---: | :---: | :---: |
| biy | L | biyy | my |
| biy | H | bihy | this |
| biy | H | bbiy | which |
| bo | H | boh | ice |
| bo | M | bo | hammer |
| bu | H | buh | heaven |
| bu | H | bu | like/ash |
| bwi | M | bwih | famine |
| bwi | H | bwi | dog |
| bwii | M | bwiih | his |
| bwii | H | bwii | fire, arrive |
| cha | HL | chah | story |
| cha | L | cha | poison (n.) |
| cha | H | cha | old man |
| chu | H | chu | God |
| chu | H | chu | turn |
| chu | H | chuh | palm nut |
| chu | H | chu | excrement |
| chi | M | chih | cover of something |
| chi | L | chi | put |
| chi | H | chi | waist |
| da | H | dah | scrotum |
| da | L | da | commit |
| dəŋ | L | dəhy | decorate |


| dəy | HM | dəy | also |
| :--- | :--- | :--- | :--- |
| du | H | $\mathbf{d u}$ | gossip |
| du | H | $\mathbf{d u}$ | stomp <br> make someone <br> du |
| H | $\mathbf{d u h}$ | angry <br> harass |  |
| du | H | $\mathbf{d u}$ |  |


| duy | M | duy | stay |
| :--- | :--- | :--- | :--- |
| dun | L | duhy | be |
| dun | L | duy | happen |


| fa | L | fa | calculate |
| :--- | :--- | :--- | :--- |
| fa | L | fa | check |
| fa | L | fah | carve |
|  |  |  |  |
| fii | M | fiih | his |
| fii | H | fii | burn, turn |


| finchin | L L | finchihy | curse |
| :--- | :--- | :--- | :--- |
| finchin | L L | finchin | bead |


| fin | L | fing | my |
| :--- | :--- | :--- | :--- |
| fin | H | fing | this |
| fin | H | ffin | which |
|  |  |  |  |
| ga | L | ga | divise |
| ga | L | ga | distribution |
| ga | H | gah | transfer |
|  |  |  |  |
| gaa | M | gaah | ache |
| gaa | M | gaa | break |
| gaa | M | gaa | circle |


| gbu | L | gbuh | boat |
| :---: | :---: | :---: | :---: |
| gbu | H | gbu | foot |
| gbu | HM | gbu | yesterday |
| hlaa | M | hlaah | govern |
| hlaa | L | hlaa | first/before/clear cutting |
| hlaanə |  | hlaahnə | 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 |
| kilay | L H | kilahy | small clear pot |
| kilay | L L | kilay | order/decree |
| kii | M | kiih | his |
| kii | H | kii | month |
| kinchaa | M HL | kinchaah | a flame for weaving bag |
| kinchaa | L HL | kinchaa | light |
| kinduy | L L | kinduy | life |
| kinduy | L L | kinduhy | nature |


| kin | L | kin | win |
| :---: | :---: | :---: | :---: |
| kiy | M | kin | serpent |
| kin | M | king | my |
| kin | H | kihy | this |
| kin | H | kkin | which |
| kwaa | L | kwaah | tie heart |
| kwaa | H | kwaa | only |
| kwoo | H | kwooh | cup |
| kwoo | M | kwoo | head |
| kpa | H | kpah | drag/drive |
| kpa | ML | kpa | field |
| kpe | L | kpeh | bachelor |
| $\mathrm{kp} \varepsilon$ | HM | kpe | woman |
| lo | HL | loh | anger/hurt |
| lo | L | lo | weave |
| lii | M | liih | his |
| lii | M | liih | remove from its handle |
| ma | L | ma | compare |
| ma | H | mah | mother |
| maa | M | maa | gun |
| maa | L | maah | with/and |
| məŋ | M | məŋ】 | my |
| məŋ | H | məhy | this |
| məŋ | H | mməy | which |
| mii | M | miih | his |

to press

| muy | M | muŋŋ | my |
| :--- | :--- | :--- | :--- |
| muy | H | muhy | this |
| muy | H | mmuø | which |
| mwa | M | mwah | white ants |
| mwa | HM | mwa | your mother |


| nin | L | $\operatorname{nin}$ | work $(v)$ |
| :--- | :--- | :--- | :--- |
| $\operatorname{nin}$ | L | $\operatorname{nin}$ | fear $(v)$ |
| $\operatorname{nin}$ | H | nihn | refuse $(v)$ |
| nin | H | $\operatorname{nin}$ | bite $(v)$ |

nuh
knee
this

| ŋəワ | L | 】ə】 | uproot |
| :---: | :---: | :---: | :---: |
| ŋəŋ | M | りə】 | see |
| ๆəŋ | M | りつŋ】 | my |
| Øวŋ | H | ŋəhy | this |
| Øəワ | H | \】ə】 | which |
| 1ii | M | 1iih | his |
| ŋii | ML | yii | shell of porcupine |
| ŋka |  |  |  |
| ta | MH | tah | father |
| ta | H | ta | sting |
| to | M | toh | three |
| to | L | to | burst |


| we\& | H | We¢ | weed (v.) |
| :---: | :---: | :---: | :---: |
| we¢ | ML | wech | farm (n.) |
| Wعย | M | we¢ | part (n) |
| Wعย | M | we¢ | build (v) |
| we\& | L | we¢ | slow |
| wii | M | wiih | his |
| wii | H | wii | stop crying |
| wu | M | wu | him |
| wu | H | wuh | feet |
| wuy | M | wuyy | my |
| wuy | H | wuhy | this |
| wuy | H | wwuy | which |
| ya | M | yah | redeem |
| ya | H | ya | F3 |
| yii |  | yiih/yíih | his/class 10 |
| yii |  | yii | name, type of |
|  |  |  |  |


[^0]:    ${ }^{1}$ The digraph hl stands for the voiceless dental alveolar palatal [4]. 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 $\mathbf{h}$ 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 $\mathbf{h l}$. (The proposal of xl and sl was to avoid confusion between the digraph $\mathbf{h l}$ 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 $\mathbf{h}$ 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 $\mathbf{h l}$ 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.

[^1]:    ${ }^{2}$ The final $\mathbf{h}$ on nuh is to differentiate it from nu which is a demonstrative pronoun this class 1 .

[^2]:    ${ }^{3}$ 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 .

[^3]:    ${ }^{5}$ The linguist and the consultant suggested to the Naami language team that for consistence, all possessive pronouns meaning $m y$ 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.

[^4]:    ${ }^{6}$ 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]:    ${ }^{7}$ 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.

