

A Grammar of Kusaal

Agolle Dialect

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2019



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Preface

I worked as an eye surgeon in the Bawku Presbyterian Hospital in Ghana for some years in the 1990s. I had previously not so much as heard the name of the major language of the district, Kusaal. Although I had the benefit of some coaching in the language by SB (see Sources), there were no written instructional materials of any kind available to me at the time I first arrived. Accordingly I embarked on the wholly new adventure of trying to work out the structure of an entirely unfamiliar language essentially by myself from scratch, armed with a longstanding interest in language but very little in the way of prior helpful skills and experience.

With the help of four intelligent and extremely patient informants, along with a good deal of exposure to the language in the course of my work, I did eventually acquire enough competence to be able to function in the highly stylised context of medical interaction with patients. I also became fascinated by the language and delighted by the order and beauty which underlie a surface which initially seemed chaotic. I hope that this work will convey a little of that beauty.

When I lived in Ghana, little linguistic work was available on Kusaal. Happily, the situation has since changed greatly, with the work of Urs Niggli and Hasiyatu Abubakari on Toende Kusaal, and the recent appearance of a full grammar of Agolle Kusaal by Anthony Agoswin Musah.

I am grateful to Dr Tony Naden, who sportingly put up with being visited out of the blue in his home in northern Ghana and showed me hospitality worthy of Africa, while giving me a number of helpful pointers. I was much helped by the staff of the Ghana Institute of Linguistics in Tamale, who among other kindnesses provided me with photocopies of David Spratt's unpublished introductory materials on Kusaal.

I am particularly grateful to Brian McLemore, Executive Director of Global Translation Services at Bible League International and to the Ghana Institute of Linguistics, Literacy and Bible Translation for permission to cite verses from the Kusaal Bible versions.

More generally, I am grateful to the Presbyterian Church of Ghana, an organisation working in often difficult circumstances with tenacity and wisdom, and to the excellent Christoffelblindenmission, by whom I was seconded to Ghana. They did not mean to sponsor the writing of a grammar, but I am sure they will not mind that they did so as a happy side-effect.

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Abbreviations

| | |
|-------------|---|
| AdvP | adverbial phrase |
| agt | agent noun |
| BNY | <i>Bunkonbid ne Niis ne ba yela</i> |
| C | consonant |
| cb | combining form |
| CGEL | Cambridge Grammar of the English Language |
| DK | informant |
| dp | discontinuous past |
| ger | gerund |
| H | High toneme |
| ILK | <i>An Introduction to Learning Kusaal</i> |
| imp | imperative |
| ipfv | imperfective |
| irreg | irregular |
| KB | Kusaal Bible of 2016 |
| KED | <i>A Short Kusaal-English Dictionary</i> |
| KKY | <i>Kusaas Kuob ne Yir yela Gbauŋ</i> |
| KSS | <i>Kusaal Solima ne Siilima</i> |
| KT | informant |
| L | Low toneme |
| LF | Long Form |
| M | Mid toneme |
| NP | noun phrase |
| NT | Kusaal New Testament, 1976 and 1996 |
| pfv | perfective |
| pl | plural |
| SB | informant |
| SF | Short Form |
| sg | singular |
| V | vowel |
| VP | verb phrase |
| WK | informant |
| 1sg 2pl ... | first person singular, second person plural etc |

Abbreviations for books of the Bible are standard and should occasion no difficulty. Citations are from the 2016 version unless stated otherwise.

Interlinear glossing

| | | |
|----------|--|---------------|
| ABSTR | abstract | <u>8.2</u> |
| ADV | adverbial | |
| AN | animate gender | <u>12.3</u> |
| CAT | clause catenator (underlyingly <i>n</i>) | <u>19</u> |
| CNTR | contrastive (personal pronouns) | <u>24.6</u> |
| COP | copula <i>àeñ^{ya}</i> | <u>16.12</u> |
| CQ | content question prosodic clitic | <u>4.1</u> |
| DEM | demonstrative pronoun (discourse) | <u>12.4.2</u> |
| DEMST | demonstrative pronoun (spatio-temporal) | |
| DP | discontinuous-past marker <i>n^ε</i> | <u>16.3.2</u> |
| EXIST | existence/location verb <i>bè</i> | <u>16.12</u> |
| FOC | focus particle <i>nē'</i> | <u>24.1.2</u> |
| GER | gerund | <u>8.1.1</u> |
| IDEO | ideophone | <u>14</u> |
| IMP | independent imperative verb form | <u>7.1</u> |
| IN | inanimate gender | <u>12.3</u> |
| INDF | indefinite pronoun | <u>12.4.3</u> |
| IPFV | imperfective verb form | <u>7.1</u> |
| IRR | positive irrealis mood marker | <u>16.4</u> |
| LOC | locative postposition (<i>nī' ~ n^ε</i>) | <u>13.3</u> |
| NEG | negative prosodic clitic | <u>4.1</u> |
| NEG.BE | negative verb to and COP and EXIST | <u>16.5</u> |
| NEG.HAVE | (another use of the same verb) | |
| NEG.IMP | negative imperative marker | |
| NEG.IND | negative indicative marker | |
| NEG.IRR | negative irrealis marker | |
| NEG.KNOW | negative verb <i>zī'</i> | |
| NEG.LET | negative verb <i>mīt</i> | |
| NULL | semantically empty NP head <i>sōb^a</i> | <u>12.4.7</u> |
| NUM | number prefix <i>à- b-à- ñ- b-ò-</i> | <u>10.2</u> |
| NZ | nominaliser (underlyingly <i>ñ</i>) | <u>21</u> |
| PERS | personifier particle (<i>à-</i> or <i>ñ-</i>) | <u>12.6</u> |
| PFV | independent-perfective marker <i>yā</i> | <u>16.6.2</u> |
| PL | plural | <u>12.2</u> |
| PQ | polar question prosodic clitic | <u>4.1</u> |
| REL | relative pronoun | <u>21.2.2</u> |
| SG | singular | <u>12.2</u> |
| TNS | tense marker | <u>16.3.1</u> |
| VOC | vocative prosodic clitic | <u>4.1</u> |

| | |
|--------------------|--------------------------|
| Personal pronouns: | <u>12.4.1</u> |
| 1SG 1PL | 1st sg/pl |
| 2SG 2PL | 2nd sg/pl |
| 3AN 3IN | 3rd sg animate/inanimate |
| 3PL | 3rd pl |
| 2PL.SUB | postposed 2nd pl Subject |

The linker particle *kà* is glossed "and" throughout, though this often does not reflect its meaning in context; similarly *yà'* is glossed "if" in all cases. The empty particle *nē* following objects of comparison 15 is glossed "like."

Mass nouns are not specified as SG or PL in the glossing; single-aspect verbs 7.2 are not labelled for aspect. The perfective of dual-aspect verbs is also unlabelled.

∅ represents words with zero surface segmental representation, detectable only from tonal and segmental effects on preceding words. Prosodic clitics 4.1 are represented by =∅. Liaison enclitics 4.2 are preceded by = in glossing as in the working orthography. Other bound words which are traditionally written solid with their hosts are joined with hyphens in glossing as in the working orthography 3.1. Liaison before non-enclitic words is marked with ◡.

A few very common compounds are glossed with single words.

Transcription conventions

Phonetic transcriptions are broad, ignoring all allophony not immediately under discussion. Starred forms are *ad hoc*, simply illustrating single rules.

For Agolle Kusaal orthography see 2. Symbols have approximately their IPA values, but long vowels are written with double symbols, *e ι* both represent [ɪ], *o υ* both represent [ʊ], *ñ* marks nasalisation and ' glottalisation of adjacent vowels, *y* stands for [j], and *kp gb* stand for [k̟p] [g̟b]. The symbol *i* is written with the dot below when it carries a tone mark, e.g. *bīg* "child" [bi:g]. *This* colour is reserved for words and word fragments in the working orthography of the grammar.

Hausa words are cited as in Jaggat 2001, but using double letters rather than macrons for long vowels; Mooré as in Niggli 2016; Nawdm as in Babakima 2013; Moba as in Kantchoa 2005, but with *y* for [j]. Arabic transcriptions use IPA, but with *y* for [j]; forms are classical, but without case endings and the *t* of *ta:ʔ marbu:tʰa*.

Words from other languages are cited as given in the sources, adding the tone marks acute for H, grave for L, and macron for mid tone where necessary.

Francophone sources use *ι υ* for IPA *ɪ ʊ*, as do Urs Niggli's works in English and the working orthography of this grammar.

Internal and external hyperlinks appear like this.

Sources

All analyses adopted in this grammar are original, except for the most basic aspects of the tonal system, where I was much helped initially by David Spratt's brief "Introduction to Learning Kusaal." The phonology and morphology are otherwise based on elicitation work with four informants. The treatment of phrase-level syntax is also primarily based on the help they gave both through elicitation and in exploring puzzling constructions I had encountered while attempting to communicate at work.

With great reluctance I have omitted their names, as I am not currently able to confirm that they would be happy to be identified. I am very grateful to all four. If any would like to see his name included in its rightful place, I would be happy to comply. Meanwhile I identify them by abbreviations (which are not their initials):

| | | | |
|----|----------------|----|--------------|
| WK | from Koka | KT | from Tempane |
| DK | from Kukpariga | SB | from Bawku |

All are first-language speakers of Agolle Kusaal, with full competence also in English. All are male, and were then around forty years old. I noted examples from many other speakers, but few of the usage of younger speakers specifically; my informants did occasionally comment on the incorrect grammar of the young (surely a cultural universal.) There have been changes in the language itself over the fifty years covered by my sources, and traditional orthography sometimes preserves obsolete forms. I found no evidence of significant differences between the speech of men and women but made no systematic enquiries on this point. My informants showed a number of minor speech differences from one another, which were probably dialectal, but I have not explored the question of subdialects within Agolle Kusaal.

My materials drawn from conversation were limited as to genre. More informal settings would have rounded out the picture in many respects. For example, features like ideophones are sparsely represented in my data, and this has probably led to underestimation of their importance in the language as a whole.

At that time, I had little understanding of syntactic issues at clause or higher level. I compensated as far as I could by private study of written materials, above all the 1976 New Testament version, storing up problems to discuss later with my teachers. In revising the work twenty years later I have had the advantage of access to digitised versions of the 1996 New Testament and the complete Bible version of 2016, which has enabled me to improve my analyses of Kusaal syntax substantially in several areas. I have also drawn on the collection of stories and proverbs *Kusaal Solima ne Siilima*, and to a small extent on other literacy materials. I owe a great debt to the many dedicated individuals involved in Bible translation and literacy work under the auspices of the Ghana Institute of Linguistics, Literacy and Bible Translation (GILLBT), without whom these materials would not exist.

The Bible versions are generally regarded by Kusaal speakers as good and idiomatic Kusaal. The 1996 revision adapted foreign names more closely to ordinary Kusaal spelling. Many changes were made to improve accuracy and clarity; strikingly, all instances of the previously very common indirect speech construction were replaced by direct speech. The 2016 Bible makes significant orthographic changes.

There is no standard or prestige form of Agolle Kusaal, and as a natural consequence the language is not entirely uniform in any of the Bible versions.

Except for a few examples from David Spratt's *Introduction to Learning Kusaal*, written sources are cited in their original orthography, with a transliteration into the working orthography of this grammar. Tone marking is supplied by me; it was checked against the audio New Testament version in those few cases where a tonal point is at issue, but in other cases should be regarded as illustrating the tonal principles described elsewhere, not as evidence for their validity.

The following Bible versions are cited:

Wina'am Gbauŋ

Wínà'am Gbáúŋ

Kusaal Bible

1976 NT © World Home Bible League

1996 NT © The Bible League/GILLBT

available as [Audio and searchable text](#)

2016 Complete Bible © GILLBT

available as an [Android application](#)

I also cite these materials published by GILLBT (the Ghana Institute of Linguistics, Literacy and Bible Translation) in Tamale:

Bunkonbid ne Niis ne ba yela

Bŋn-kóŋbìd nē Nŋis né bà yēlá

"Animals and birds and their affairs"

Matthew M. Abokiba

Kusaal Solima ne Siilima

Kŋsâal Sólímà nē Sŋilímà

"Kusaal Stories and Proverbs"

Samuel Akon, Joe Anabah

Kusaas Kuob ne Yir yela Gbauŋ

Kŋsâas Kûeb nē Yŋr yēlà Gbàúŋ

"A book on Kusaasi farming and housing"

William A. Sandow, Joseph A.H.Anaba

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1 Introduction

1.1 The Kusaasi people

Upper East Region of Ghana (adapted from [Macab5387](#)):



Kusaal is the language of the Kusaasi, the majority ethnic group of the far northeast of Ghana, east of the Red Volta and north of the Gambaga Escarpment; the local major town is Bawku. There are also many Kusaasi settlements in the neighbouring part of Burkina Faso south of Zabré, and a few in Togo. The White Volta separates this predominantly Kusaasi territory into **Toende** (French *Tondé*, Kusaal *Tùen* "West", shaded dark grey above) and **Agolle** (Kusaal *Àgòl* "Upper", light grey.)

The land is mostly open savanna with scattered trees. The population density is fairly high for northern Ghana, and much former woodland has been turned over to cultivation; tracts survive especially along the White Volta where settlements are few because of the river blindness (onchocerciasis) endemic there until recent times.

Most Kusaasi are cultivators, living in widely scattered compounds, each the domain of one family head with his wives, sons, daughters-in-law and grandchildren. Cattle-raising is common but is mostly the preserve of Fulbe and Mossi. A single rainy season lasts unpredictably from May to October. The main crop is millet of various kinds, with rice to a lesser extent. Millet is used for the staple porridge *sā'ab*, called "TZ" /ti:'zed/ in local English (Hausa *tuwon zaafi*, "hot porridge"), and the traditional millet beer, *dāam*, called "pito" (Hausa *fitoo*) in English.

The Kusaasi are divided into numerous patrilineal exogamous clans (*dɔ̀ɔg*, "hut") which tend to be associated with particular areas (I was once told: "The first thing a young man looking for a wife needs to do is to get a bicycle.") A Kusaasi person knows his or her clan, and often its *pɔ̀ɔr* "slogan", part of its traditional lineage, but unlike the Mossi, the Kusaasi do not use clan names as surnames. Clans have their own distinctive customs (such as prohibitions against eating particular animals) but no administrative function; the Kusaasi originally had no chiefs. In religious matters the leading man of the area is the *tɛ̀ŋ-dāan* "earth-priest", taken to be the descendant and heir of the original first settler. In precolonial times the dominant political structures in this region were the so-called Mossi-Dagomba states, the continuations and offshoots of polities founded, probably around the fourteenth century, by incoming conquerors traditionally held to be from the region of Lake Chad. The invaders created hereditary chiefdoms among previously acephalous peoples, who continued to provide the *tɛ̀ŋ-dāan-nàm*. The founder of these kingdoms is called *Naa* [King] *Gbewaa* in Mampruli. His seat was at Pusiga (Kusaal *Pūsīg*) in what is now Kusaasi territory; he is said to have been swallowed by the earth at that place. In his sons' time the capital was relocated south to the Mamprussi lands. The Dagomba and Mossi kingdoms are cadet branches of this centuries-old military-aristocratic Mamprussi state (Iliasu 1971.) Unlike their Mamprussi neighbours, the Kusaasi were not absorbed into the system, and intermittent conflict has continued to this day, particularly over the chieftaincy of Bawku. Both in colonial times and since independence, wider political issues have complicated the situation (Lund 2003.)

Ethnic group membership is patrilineal, and many Mamprussi in the Bawku area are in fact Kusaal-speaking. (It was one of my Mamprussi colleagues who first gave me a Kusaal New Testament; he himself could not speak Mampruli.)

The Kusaasi are part of a widespread culture which also encompasses neighbouring peoples like the Mossi, Farefare, Mamprussi, Dagomba and Balsa. Traditional Kusaasi dress resembles that of the Mamprussi, Dagomba and Mossi, including the long-sleeved baggy *bānāa* smock, called a "fugu shirt" in English (*fūug* "clothing"), popularised in southern Ghana by President Rawlings.

Most Kusaasi retain their traditional animist outlook. As of 1995, perhaps 5% of local people professed Christianity, a figure which includes many non-Kusaasi from the south; likewise, of some 5% Muslims, many belonged to other ethnic groups.

Traditional belief includes a creator God, *Wīn*, invoked in proverbs and greetings but remote from everyday life and not to be approached in prayer or worship. Characteristic proverbs say

Dìm nē Wīn, dā tɔ̀'as nē Wīnné=∅.

Eat:IMP with God:SG, NEG.IMP talk with God:SG=NEG.

"Eat with God, don't talk with God."

Wīn ñyé kà sīn.

God:sg see and be.silent.

"God sees and is silent."

Everyday religious practice is concerned with local non-anthropomorphic spirits, also called *wīn*. A *wīn* resides in a *bōgōr*, an object such as a stone or horn, but it is the *wīn* that is spiritually significant, not its place of attachment. A central figure is the *bā'a* "diviner", who seeks guidance for a client by casting lots.

A human being is understood as having four components: *ñin-gbīn* "body"; *ñyò-vōr* "life" as opposed to death, possessed by all living animals; *wīn* (in this sense) "genius, spirit, a person's own spiritual self"; and *kìkīrīs*, protective spirits (called "fairies" in local English.) Men have three *kìkīrīs*, women a fourth, because of the dangers of childbirth. (Throughout the cultural zone, three is a man's number, and four is a woman's.) There are wild *kìkīrīs* in the bush which are hostile and try to lead travellers astray. *Sīg* "life force", used for "spirit" in Christian materials, is in traditional belief identified with a person's tutelary *kìkīrīs*.

The key term *wīn* has yet further senses, overlapping with the European concepts of fate or destiny: *wīn-tōg*, literally "bitterness of *wīn*" is "misfortune." Most people have a particular *sīgīr* "guardian spirit" which is often the *wīn* of an ancestor; the word *bōgōr* may also mean "a *wīn* inherited from one's mother's family." Many Kusaasi personal names refer to an individual's *sīgīr*.

Sōñb "witches" exist in the traditional world view; though they cause harm, their condition can be involuntary. As in European tradition, those accused are often marginalised or older women. The Mamprussi king, whose role imbues him with great spiritual power, is safe from witches and takes them in formal marriage so that they may avoid persecution. My Ghanaian colleagues once organised a visit to an entire village of such witches in order to operate on their cataracts.

When speaking English or French, Kusaasi normally cite Kusaal personal and place names without apocope 3.2: *À-Wīn* from *Wīdī-ñyá'aj* will introduce himself as "Awini" from "Woriyanga." Similarly "Kusaasi" for *Kōsâas*, "Bawku" for *Bòk* etc. "Woriyanga" also shows a Mampruli rather than Kusaal form for the initial combining form "horse": Mampruli *wuri-*, Kusaal *wìd-*. This reflects the origin of the convention in the use of Mamprussi guides and interpreters by the British in their initial explorations of the area. A parallel development took place earlier in Mamprussi country when the British arrived with Dagomba guides: thus "Gambaga" (Dagbani *Gambaya*) for the Mampruli place name *Gambaa* (Naden.)

However, this transposition convention has been generalised by analogy, and many forms show distinctively Kusaal phonology, morphology or vocabulary. Simple reproduction of Kusaal forms is also sometimes seen, e.g. "Aruk" for the personal name *À-Dōk*, and the language name "Kusaal" *Kōsâal* itself.

1.2 The Kusaal language

1.2.1 Status

As of 1995 there were about 250,000 speakers of Kusaal, a number which has since increased very substantially.

Written materials are few, apart from the Bible translation, which is far and away the most extensive written work in Kusaal. Few people were proficient in reading or writing the language in the 1990's. Though Kusaal is thus not used in the domain of Western-style education and technical activity, it is nevertheless the language of all everyday interaction among Kusaasi of all ages, most of whom are monolingual, and is also an areal lingua franca, used in particular by the many Bisa people who are found in the villages and in Bawku.

Of the major lingua francas of Ghana, Hausa is the most important locally. It is the main source of identifiable loanwords in Kusaal. In the 1990's few people outside Bawku knew Twi/Fante or English. Perhaps 5-10% of patients attending our clinics in Bawku at that time could communicate in English well enough for the purposes of medical consultation; the majority were most comfortable with Kusaal, with Hausa and Mooré about equal in second place, in both cases often as vehicular languages.

1.2.2 Dialects

There is no standard dialect of Kusaal; every district has local peculiarities and my informants show numerous small differences in speech. Bawku itself is a multiethnic trading centre around a Muslim quarter or "zongo" (Hausa *zangòo* "camping ground") where the main common language is Hausa.

The major dialect division is between Agolle and Toende. Numerous isoglosses coincide to produce a sharp discontinuity between Agolle and Toende Kusaal, probably attributable to depopulation near the White Volta because of the river blindness prevalent until recent times.

My informants reported little difficulty communicating with Toende speakers, but they are sophisticated multilinguals who may not be altogether typical, and it is also possible that Agolle speakers find Toende Kusaal easier than vice versa. Berthelette 2001 studied the comprehension of Agolle Kusaal by Burkina Faso Toende speakers: of thirteen respondents, ten reported that they understood the Ghanaian Toende of Zebilla "very well", one "somewhat well" and two "a little", whereas with Agolle, eight said that they understood it "a little", two "somewhat well" and only three "well." Recorded text tests administered to Burkina Faso Toende speakers showed scores of 93% for Ghanaian Toende versus 80.5% for Agolle, but Ghanaian Toende speakers achieved 94.5% with Agolle, presumably reflecting their greater exposure to the dialect. The paper also reports that Toende speakers feel their own dialect is "purer", which may affect judgments of comprehensibility.

Berthelette reports a rate of apparent lexical cognates of 84%.

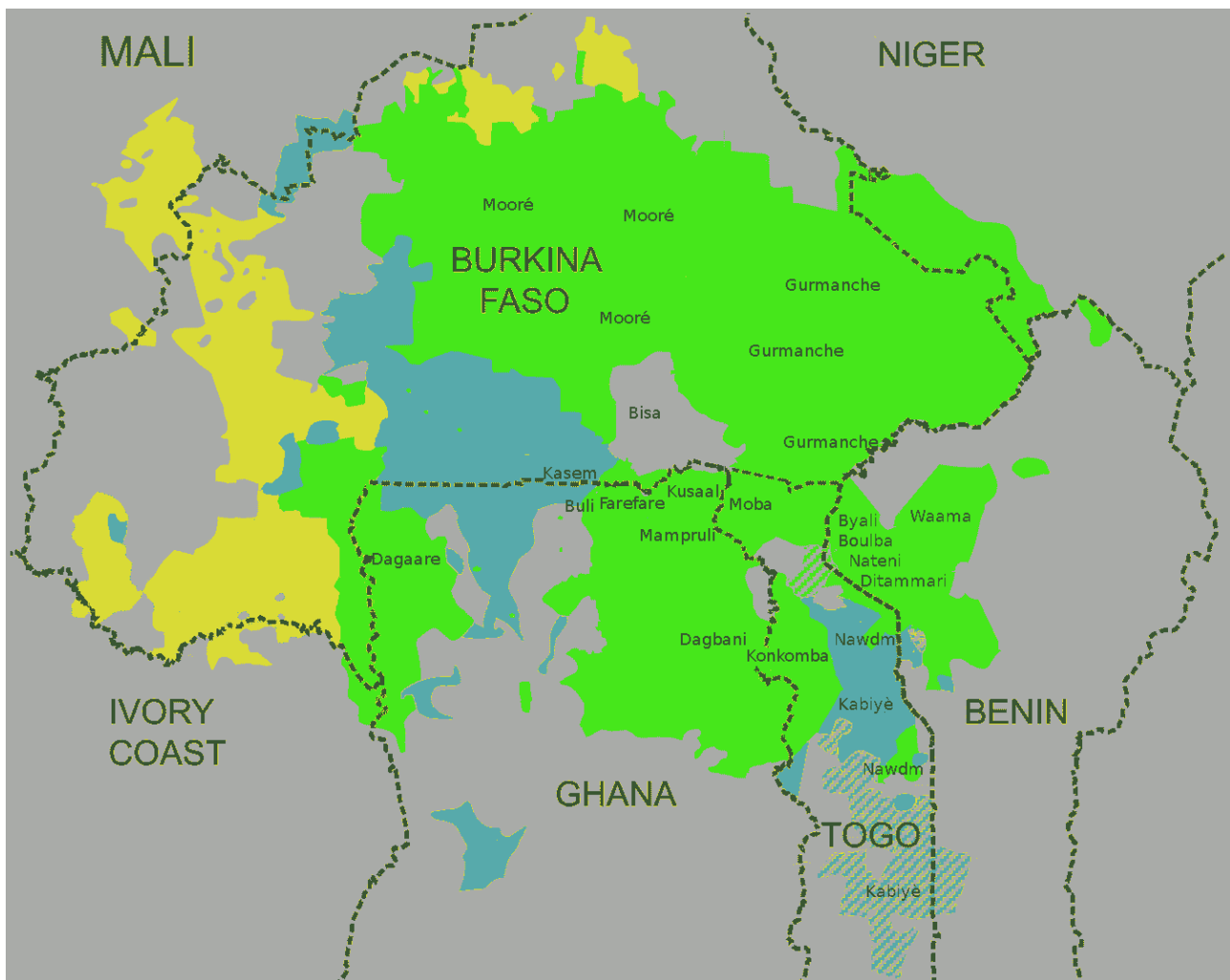
Agolle and Toende Kusaasi agree that they constitute a single ethnic group, and that they speak dialects of a single language. Nevertheless, the differences are great enough to justify separate grammatical treatment for the two major dialects.

By "Kusaal" I will mean "Agolle Kusaal" by default below; I do not intend by this to imply that Agolle speech is the sole standard form of the language.

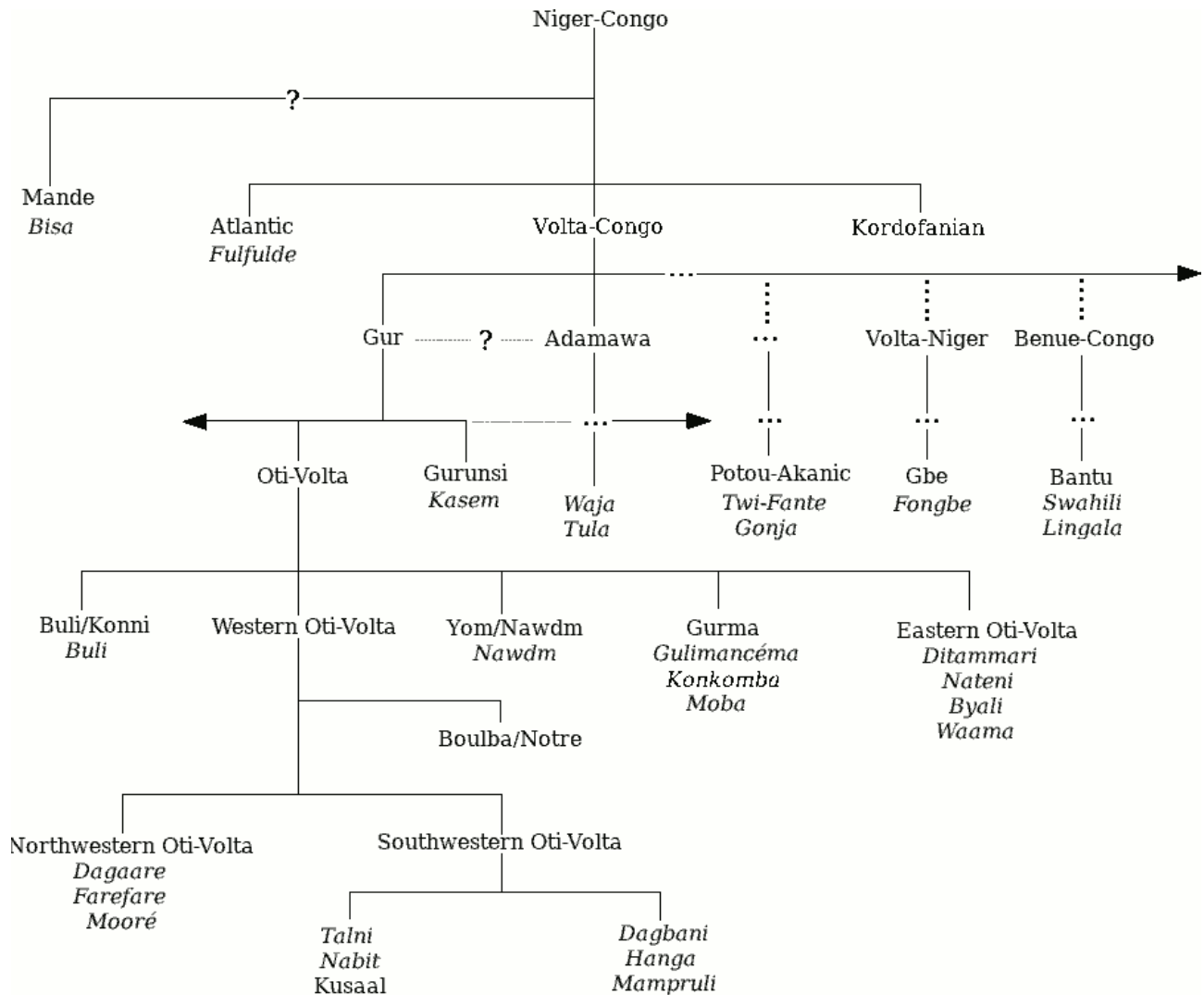
1.2.3 Related languages

Kusaal belongs to the **Gur** or **Voltaic** language family within the huge and diverse **Niger-Congo** phylum.

The Gur Languages (adapted from [Davius](#)):



Green: Oti-Volta; blue: Gurunsi; yellow: other Gur.



The chart above shows relationships between some of the languages mentioned below. Subclassifications are very often uncertain; in particular, the relationship between Gur and Adamawa is unclear. Mande may well not belong with Niger-Congo at all. The inclusion of Kordofanian and Atlantic in Niger-Congo is a long-range hypothesis: striking typological similarities with Volta-Congo do not prove genetic unity. For West Africa and beyond as a *Sprachbund* see Güldemann 2007.

However, there is unequivocal evidence for Volta-Congo as a genetic group. Basic lexical items recur frequently: compare Kusaal *b̄iig* "child", *d̄i* "eat", *n̄u* "drink", *kp̄i* "die", *t̄iig* "tree", *àt̄án̄* "three", *t̄b̄b̄òr* "ear" with their Fongbe equivalents *ví*, *d̄ù*, *n̄ù*, *kú*, *át̄ín*, *àt̄òn*, *tó*. Guthrie's Proto-Bantu reconstructions parallel all except "child": *d̄í-* "eat", *n̄ú-* "drink", *kú-* "die", *-t̄í* "tree", *-t̄át̄ò* "three", *-t̄ó* "ear", and his Proto-Bantu *tóm-* "send" corresponds to Kusaal *t̄òm*. The Potou-Akanic language group, which includes Twi/Fante and Gonja, here shows a regular sound correspondence *t* ~ *s*: Twi *es̄á* "three", *as̄ò* "ear", *soma* "send", Gonja *à-sá* "three", *kò-sówé* "ear."

The most salient morphological feature of Niger-Congo is the presence of noun class systems, with frequent matches of form and meaning among Volta-Congo branches. Thus the Kusaal human-plural noun *suffix* *-ba* seen in *nīdīb* "people", plural of *nīd*, matches the Gonja human-plural *prefix* in *bá-sà* "people", plural of *é-sà*, and the *ba* of Lingala *bato* "people", plural of *moto*. Particular sg/pl *pairings* of affixes recur; for example, the suffixes *rɛ|aa* seen in Kusaal *tùbùr* "ear", pl *tùbà* are cognate to the Bantu prefix pair 5/6 (Nurse and Phillipson, p104.) Lingala has the cognate of *tùbùr* in this very class: *litói* "ear", pl *matói*. The affixes of other Volta-Congo languages correspond to the Bantu pronominal/verbal agreement prefixes rather than noun class prefixes; for Proto-Bantu 5/6 these are sg *lɪ*, pl *gá* (*ibid.* p149.)

Similarities also appear in verbal derivation by suffixes, usually called "verbal extensions", as in Bantu, where such processes are often very productive. However, form and function can be difficult to correlate, and some processes may even be areal phenomena, found also in Afro-Asiatic and Nilo-Saharan (Hyman 2007.)

With some lower-level groupings detailed comparative work has achieved much already. High-level comparative work is generally at an early stage; see, however, Gabriel Manessy on Gur, and especially the publications of John Stewart on Potou-Akanic and its relationships with Bantu and Atlantic.

The closest relatives of Kusaal form Manessy's **Western Oti-Volta** family. Here Proto-Oti-Volta **c *j* have merged with **s *z*; almost all inflecting verbs use a bare stem for perfective aspect and add a suffix **-da* for imperfective; some noun classes have been lost, such as a *bo*-sg class including words for trees (Buli *tìib* "tree", Kusaal *tìig*, Mooré *tìigá*); there is much distinctive vocabulary, e.g. Kusaal *kù'òm* "water", Mooré *kòóm*, vs Moba *júm*, Buli *nyíam*, Nawdm *nyáálm*, Nateni *néēma*. Boulba/Notre in Benin is an outlier: it shares distinctive lexicon (*kóà* "water") but has, for example, devoiced **g → k*, **gb → kw*, **z → c̣̣*, reflecting areal features shared with Eastern Oti-Volta, and kept the "tree" class: *tiebò* "tree."

Western Oti-Volta is roughly as diverse as Romance. Claims of mutual intelligibility often reflect underappreciation of the fact that many local people are competent users of more than one distinct language.

Apart from Boulba, the group is subdivided into Northwestern and Southwestern. Northwestern Oti-Volta includes Mooré, Safaliba, the dialect continuum Dagaare-Waale-Birifor, and Farefare-Gurenne-Ninkare. Mooré and Farefare share innovations absent in Dagaare. Southwestern Oti-Volta includes Kusaal, Nabit, Talni, Mampruli, Dagbani, Hanga, Kamara and some smaller languages; a distinctive Southwestern feature is an imperative flexion **-ma*.

Mampruli, Dagbani, Hanga and the smaller languages form a clear subgroup. Among other innovations, they show a great simplification of the vowel system, along with lowering of short **e* to *a* and the development of contrastive palatalised velars.

Kusaal probably forms a subgroup with Nabit and Talni, spoken in the adjacent Nabdam and Talensi districts. Tony Naden's Nabit data closely resemble Toende Kusaal, and Giffen 2015 notes that Talni speakers understand Nabit to some extent.

Nabit, Talni, and Kusaal have lost inherited final short vowels in citation forms. Naden's materials suggest that Nabit and Talni, like Kusaal, retain the final vowel at the end of questions and negated clauses:

| | | |
|-------|---|---|
| Nabit | <i>La bi'imε.</i> | "It is ripe." (<i>mε</i> = Toende <i>me</i> , Agolle nē 16.2.1) |
| | <i>La na bu biigε.</i> | "It is not yet ripe." |
| Talni | <i>Bunpək dɔɣam pu bəkəra, buraɔ dɔɣam m bəkət.</i> | |
| | "A woman's kindred is not divided, a man's kindred is divided." | |

Other groups within the **Oti-Volta** family can readily be seen to be related.

Buli is close to Western Oti-Volta: Kröger 1992 shows numerous obvious cognates in vocabulary and parallels in nominal morphology. Buli verbs do not inflect for aspect. Proto-Oti-Volta **s *z *c *j* are preserved unchanged.

The Gurma languages are much less close. Verb flexion is complex, marking aspects by changing stem tones and/or adding or dropping several different suffixes. Gulimancéma and Konkomba show nouns with paired class prefixes and suffixes. Moba shows some features suggestive of Western Oti-Volta influence.

Both Buli and Gurma have three-tone systems. Of the three Western Oti-Volta Tone Patterns [3.8](#), Pattern H corresponds to Buli *high* tone, but Gurma *low*; Pattern A to Buli mid and Gurma high, and Pattern L to Buli low and Gurma mid:

| | | | |
|--------------|-------------|--------------|---------|
| Kusaal | Buli | Moba | |
| <i>wáaf</i> | <i>wáab</i> | <i>wààùg</i> | "snake" |
| <i>m̄ɔɔg</i> | <i>mūub</i> | <i>móóùg</i> | "grass" |
| <i>tìg</i> | <i>tìib</i> | <i>tīg̃</i> | "tree" |

It is Gurma which is conservative: cf Proto-Bantu *-nùà* "mouth", Fongbe *ònù* = Kusaal [n̄ɔɔr](#) (Pattern H) versus Proto-Bantu *-tó* "ear", Fongbe *tó* = Kusaal [tòb̀̀̀r](#).

Nawdm aligns tonally with Western Oti-Volta and Buli: *wáàg̃b̃* "snake", *móógú* "grass", *tìib̃* "tree." It has shifted **p* → *f*, **s* → *h*, **c* → *s*, **z* → *j*. It often has *h* [ʔ] where Western Oti-Volta shows vowel glottalisation. Nawdm shows much less lexical similarity than Buli to Western Oti-Volta, but there are parallels in verb morphology. Most verbs use the stem as perfective and add *-a* for imperfective, dropping any perfective *-g* suffix; another common pattern is perfective *-ra* ~ imperfective *-l*.

Sambiéni 2005 provides considerable detail on the Eastern Oti-Volta languages. He assumes Manessy's Eastern Oti-Volta as a valid subgroup, but this subgrouping is partly based on initial consonant changes which are areal, and shared with Boulba.

The verbal systems of Ditammari and Nateni are similar, broadly resembling Gurma. Both languages also align with Gurma in showing L tones corresponding to Pattern H. Ditammari shows nouns with paired class prefixes and suffixes.

Byali usually shows mid tones in cognates of Kusaal Pattern H words. Most verbs oppose perfective *-sə* to imperfective *-u*.

Waama shows high tones in words corresponding to Western Oti-Volta Pattern H. A group of verbs with stems ending in vowels or alveolars opposes perfective *-i* to imperfective *-u*, but most verbs use the bare stem as perfective and add *-ri -di* or *-ti* for the imperfective. Of roughly 400 vocabulary items compared by Sambiéni, 55 Waama words are not cognate to those of the other languages; the figures for the other languages are all under 20. Some have cognates in Western Oti-Volta and Buli, e.g. Waama *wōmmā* "entendre", Kusaal *wòm*, Boulba *wàmú*, Buli *wom*; Waama *yété* "maison", Kusaal *yīr*, Boulba *yere*, Buli *yéí*.

There is much less similarity between Oti-Volta as a whole and the other major branch of Gur, the **Gurunsi** languages, which include Kasem and Kabiye among many others. Oti-Volta and Gurunsi may be coordinate members of a continuum including at least some Adamawa subgroups: Kleinwillinghöfer 1996 references studies suggesting that the Adamawa languages Waja and Tula are closer to Gurunsi than to Oti-Volta. Manessy takes Koromfe as a third branch of "Central Gur" alongside Oti-Volta and Gurunsi. He classified some languages as Gur on the basis of very scanty documentation; when adequate descriptions appear, such classifications may need to be revisited. The Senufo group was previously regarded as a branch of Gur, largely on the basis of having noun class suffixes rather than prefixes; it is now usually held to constitute a distinct branch of Volta-Congo.

1.2.4 Grammatical sketch

Kusaal is in most respects a typical Western Oti-Volta language. It is chiefly distinctive in having undergone **apocope** of word-final short vowels even in citation forms, a feature shared with Nabit and Talni. Thus where Mooré has the citation form *gígemde* "lion", the cognate Kusaal word normally appears in the **Short Form** (SF) *gbīgīm*. This is not a simple historical matter, however: the Kusaal final vowel is still present in certain contexts. It reappears clause-finally when the clause contains a negation, ends a question, or is used as a vocative: the final word then appears as a **Long Form** (LF):

Lì à nē gbīgīm. "It's a lion."
3IN COP FOC lion:SG.

Lì kā' gbīgīmnē=∅. "It's not a lion."
3IN NEG.BE lion:SG=NEG.

Lì à nē gbìgìmnèè=∅. "Is it a lion?"
3IN COP FOC lion:SG=PQ.

As here, after apocope any final consonant cluster drops the second consonant.

This appearance of surface untruncated forms rather than truncated is regarded as being triggered by following **prosodic clitics**, which have no segmental form of their own but show their presence by this effect on the preceding word form. There are four prosodic clitics: negative NEG, vocative VOC, polar-question PQ and content-question CQ, with different effects on preceding vowel length and tone. In interlinear glossing they are represented by =∅, as above.

In citing word forms, superscripts are used to write the parts of words which are dropped everywhere except before prosodic clitics and liaison: *gbīgīm*^{NE} "lion", *bīg*^a "child", *kōk*^a "chair", *dōk*^{∅/} "pot."

The phonology of Kusaal is significantly complicated by apocope. For example, apocope deletes segments responsible for rounding and fronting effects on preceding vowels, and renders those effects contrastive. This creates diphthongs, along with emic contrasts among epenthetic vowels. Thus the LF *vīugó* "owl" has *iu* for *ii* because of the rounding effect of the suffix vowel. After apocope, the diphthong *iu* in *vīug* contrasts with the vowel of *vīid* "owls", shortened from *vīidé*. Similarly, *āāñdīgā* "black plum tree" has the default epenthetic vowel *ɪ*, and appears as *āāñdīg* after apocope, whereas *gàadùgò* "passing" has rounding to *u* before the flexion *-gɔ*, and after apocope this becomes contrastive in the SF *gàadùg*.

Liaison words cause a preceding word to appear as a LF modified by the loss of all original vowel quality contrasts in final non-root vowels. All non-contrastive personal pronouns fall into this category, for example:

Ṁ pō bódā=∅. "I don't want to."
1SG NEG.IND want=NEG. LF *bódā* preceding negative clitic.

Ṁ bódī=bá. "I love them."
1SG want=3PL. Modified LF *bódī* before liaison.

Ṁ pō zábē=∅. "I haven't fought."
1SG NEG.IND fight=NEG. LF *zábē* preceding negative clitic.

Ṁ zábī=bá.
1SG fight =3PL.

"I've fought them."
Modified LF *zábī* before liaison.

Apocope reduces several liaison words of the underlying form *CV* to a single consonant. So with the object pronoun *f*^o "you (sg)" and the locative postposition *n*^ε:

Ṁ pō bódī=fó=∅.
1SG NEG.IND want=2SG=NEG.

"I don't love you."
LF *f*^o of the pronoun "you (sg)"

Ṁ bódī=f.
1SG want=2SG.

"I love you."
SF *f* of the pronoun "you (sg)"

Lì kā' kōkā=∅.
3IN NEG.BE chair:SG=NEG.

"It's not a chair."

Lì kā' kōkī=né=∅.
3IN NEG.BE chair:SG=LOC=NEG.

"It's not in a chair."

kōkī=n
chair:SG=LOC

"in a chair"

Lì kā' dōkó=∅.
3IN NEG.BE pot:SG=NEG.

"It's not a pot."

Lì kā' dōkí=nē=∅.
3IN NEG.BE pot:SG=LOC=NEG.

"It's not in a pot."

dōkí=n
pot:SG=LOC

"in a pot"

The object pronoun ^o "him/her" has the LF *o* [ɔ], which is deleted entirely by apocope, producing a SF which is segmentally *zero*. Its presence is still shown by the replacement of the preceding host-word-final vowel mora by [ɔ], always written *o*.

Compare the above forms with *f*^o "you (sg)" to the forms with ^o "him/her":

Ṁ pō bódó=o=∅.
1SG NEG.IND want=3AN=NEG.

"I don't love him/her." [ɱpobɔ:dɔ:]
LF *o* of the pronoun "him/her"

Ṁ bódō=∅.
1SG want=3AN.

"I love him/her." [ɱbɔ:dɔ]
SF *∅* of the pronoun "him/her"

A liaison word form ^{ya} of the 2pl *subject* pronoun follows imperative verb forms. It similarly loses its entire segmental form in the SF, because *y* left word-final by apocope is completely deleted unless preceded by a back vowel:

Gòsìm! "Look!"
Look:IMP!

Gòsìmī=ø! "Look ye!" by apocope from *gòsìmī=yá*
Look:IMP=2PL.SUB!

Liaison words are not all bound to the left. *Right*-bound non-contrastive personal pronouns cause inhibition of apocope in the *preceding* word, as do the personifier particle *à-* and all words beginning with certain prefixes. Before words not bound to the left, liaison is marked by $_$ in interlinear glossing.

Two liaison-word particles which have the underlying form *n* also frequently lose their own segmental form entirely. As with *o* "him/her", their presence is then apparent only from the modified LF of the preceding word and from tone.

ṁ zūgú=ø zàbìd lā zúg
1SG head:SG=NZ fight:IPFV ART upon
"because my head hurts" (nominaliser-*ṁ*)

Ṁ zūgū_ ø zàbìd. "My head hurts." (catenator-*n*)
1SG head:SG CAT fight:IPFV.

Kusaal has contrastive vowel glottalisation.

Vowel **breaking** results in four vowels realised *ja ya iə uə* which nevertheless pattern throughout as *monophthongs*. Kusaal has also developed many phonemic diphthongs from fusion of vowels after deletion of intervocalic **g* and from final fronting and rounding effects left contrastive by apocope, as mentioned above.

The **tone system** resembles the locally common terracing two-tone type in structure, but the original H toneme has become mid (M), displaced by a new H derived from original HL on a single mora. The tone-bearing unit is now the syllable. Acute, macron and grave mark H, M and L respectively. *CVVC* syllables may also have a circumflex (X) toneme, derived from HL on a single syllable.

There is a frequent tone overlay marking verb phrases in main clauses, and pervasive external tone sandhi.

Open-class word stems are built around roots of the form (C)V(V)(C). Stems may have up to three consonantal derivational suffixes, and a word may have one flexional suffix (C)V(V). Many nominal stems have a prefix before the root, taking the forms *CV-* or *CVn-*, less often *CVlɪn-* or *CVsɪn-*, e.g. *pīpīrīg* "desert." Such stems may

Kusaal has abandoned grammatical gender in favour of a natural animate/inanimate opposition. Noun classes remain central to noun morphology.

Kusaal makes no grammatical distinction between male and female.

A characteristic feature of Western Oti-Volta is a striking simplification of **verb flexion**, with just one "conjugation" of prototypical dual-aspect verbs, using the bare stem for perfective aspect and marking the imperfective with a single suffix *-da*. There are few real irregularities, though unobvious consonant changes and vowel deletions again complicate the surface picture:

| | | | | |
|------------|-----|-------------|------|-----------|
| <i>kō</i> | pfv | <i>kōvd</i> | ipfv | "kill" |
| <i>ñyē</i> | pfv | <i>ñyēt</i> | ipfv | "see" |
| <i>vōl</i> | pfv | <i>vōn</i> | ipfv | "swallow" |

Dual-aspect verbs also have an imperative flexion *-ma*, appearing only in positive polarity when the verb has independency-marking tone overlay (see below.)

Single-aspect verbs typically express body positions, relationships, or predicative adjectival senses. They have only a single finite form, which always has imperfective aspect; as a lexical matter, they can be dynamic or stative:

Ò dīgì nē. "She's lying down."
3AN be.lying.down FOC.

Ò m̀̀r búŋ. "She has a donkey."
3AN have donkey:SG.

Ò g̀̀m. "She's short."
3AN be.short.

There are two verbs "to be": *b̀̀* "exist, be in a place" and *àŋñ* "be something/somewhat." *Àŋñ* is usually followed by the focus particle *nē* whenever syntactically permitted, and then loses both the final *ŋ* and the nasalisation:

Ò à nē b̀̀iŋ. "He's a child."
3AN COP FOC child:SG.

The two "be" verbs share a common negative-verb counterpart *kā'e* "not be", which usually appears as *kā'* clause-medially:

Ò kā' b̀̀iŋgā=∅. "He's not a child."
3AN NEG.BE child:SG=NEG.

Kusaal is well-provided with word-level derivational processes. For example, regular deverbal gerunds, agent nouns and instrument nouns can be made freely from most verb types: *k̄v̄vb* "killing", *k̄v̄vd* "killer", *k̄v̄vdíŋ* "killing implement."

Compound formation, besides being the regular way of adding adjectives to nouns, is common in NP formation generally; there are many set expressions, but compounds of all kinds can be created freely: e.g. *gb̄ìḡim-k̄v̄vd* "lion-killer."

Syntactically, Kusaal is strictly SVO, with indirect objects preceding direct:

M̄ tís d̄ú'atà b̄óŋ l̄ā.
 1SG give doctor:SG donkey:SG ART.
 "I've given Doctor the donkey."

As seen above, an adjective follows its noun and forms a compound with it. There are two native prepositions, *n̄ē* "with" and *w̄v̄v* "like" (*n̄ē* also links NPs and some AdvPs in the sense "and", but *k̄à* is "and" when linking VPs and clauses.)

In other respects Kusaal prefers head-final structures, with possessors, for example, always preceding their heads:

m̄ b̄īg "my child"
d̄āy l̄ā b̄īg "the man's child"

Adverbs often appear as postpositions preceded by NP dependents, as with *z̄ūg* "head" used adverbially in *t̄éeb̄v̄l l̄ā z̄ūg* "onto the table."

The liaison word *n̄^ε* mentioned above is a very general locative postposition. It in its SF it is reduced to *n̄*:

m̄v̄'ar̄ī=n "in a lake" (*m̄v̄'ar̄è* "lake", LF)
 lake:SG=LOC

The verb is preceded by particles expressing tense, mood and polarity. There is no agreement with any noun phrase, whether for person or number.

Gb̄īḡim l̄ā s̄á k̄v̄ b̄úm̄ìs l̄ā.
 Lion:SG ART TNS kill donkey:PL ART.
 "The lion killed the donkeys yesterday."

Gb̄īḡim̄ā l̄ā d̄āa p̄v̄ k̄v̄ b̄óŋ l̄āa=∅.
 Lion:PL ART TNS NEG.IND kill donkey:SG ART=NEG.
 "The lions didn't kill the donkey."

The focus particle *nē* may focus VPs or VP constituents (as after *àḡñ* "be something" above), but if no unbound words intervene between the verb and *nē* and the verb meaning permits, it instead has an *aspectual* sense, limiting the reference of the VP to "at the time referred to in particular":

Nīdīb kp̄id. "People die."
 Person:PL die:IPFV.

Nīdīb kp̄id nē. "People are dying."
 Person:PL die:IPFV FOC.

The Kusaal VP is specifically marked for the *absence* of subordination. Main and content clauses have **independency marking** of the first VP, primarily marked by a tone overlay and by the tone sandhi of subject pronouns. The overlay is absent in negative polarity or irrealis mood and with various preverbal particles; marking itself is absent after the clause-linker *kà* even in *coordinating* function, as in narrative:

Ò zàb d'atà. "He's fought the doctor."
 3AN fight doctor:SG.

Ò gòs d'atà. "He's looked at the doctor."
 3AN look.at doctor:SG.

with the verbs *zàb gòs* showing identical tones because of the overlay; contrast

Kà ò záb d'atà. "And he fought the doctor."
 And 3AN fight doctor:SG.

Kà ò gōs d'atà. "And he looked at the doctor."
 And 3AN look.at doctor:SG.

When the verb itself has the tone overlay, clause-final perfectives are followed by the particle *yā*, and imperatives of inflecting verbs take the flexion *-ma*:

Dā gōs d'atāa=∅! "Don't look at the doctor!"
 NEG.IMP look.at doctor:SG=NEG!

but *Gòsìm d'atà!* "Look at the doctor!"
 Look.at:IMP doctor:SG!

A third type of subordinate clause uses the initial linker particles *yē* or *kà* in **complementisation**. Purpose clauses are of this type:

M̄ ná tī=f tūm yé fò nīf dā zábē=∅.
 1SG IRR give=2SG medicine that 2SG eye:SG NEG.IMP fight=NEG.
 "I'll give you medicine so your eye won't hurt."

Content clauses are formally identical to main clauses, and have independency marking, but with personal pronouns altered as in indirect speech. They are used for reporting speech and after verbs expressing communication or thought. Most are introduced by *yē* "that." There are logophoric uses of contrastive personal pronouns:

Dau da be mori o po'a yimmir, ka po'a la ye on pu lem bood ye o sid la di po'a ya'ase.
Dāu dá bē ∅ mōrí ò pū'à-yīmmír, kà pū'ā lā yē
 Man:SG TNS EXIST CAT have 3AN wife-single:SG and wife:SG ART that
ōn pō lém bōod yé ò sīd lā dí pū'ā yá'asē=∅.
 3AN.CNTR NEG.IND again want that 3AN husband:SG ART take wife:SG again=NEG.
 "There was a man who had only one wife. [And] the wife said that **she** did not want her husband to take another wife." KSS p26

Clefting constructions are based on catenation. By ellipsis they produce structures using *n* for focussing subjects and *kà* for foregrounding other elements:

M̄ zūgō ∅ zábìd. "My head is hurting."
 1SG head CAT fight:IPFV. (Reply to "Where is the pain?")

Gbīgím kà ò dāa ñyē. "It was a lion that I saw."
 Lion:SG and 1SG TNS see.

Although there is no syntactic movement rule for interrogative words, they are frequently preposed using *kà*, and focussing with *n* is compulsory for *ànḍ'ɔn* "who?" as subject even though it remains *in situ* before the verb.

Fò bōod bó=∅? "What do you want?"
 2SG want what=CQ?

Bó kà fò ñyētá=∅? "What can you see?"
 What and 2SG see:IPFV=CQ?

Ànó'òní_ø kō búŋ lá=ø?
 Who CAT kill donkey:SG ART=CQ?
 "Who has killed the donkey?"

Preposing with *kà* is often simply due to ordering constraints and then has no foregrounding implication.

Kusaal narrative links clause after clause with *kà*, omitting tense marking so long as the action is preceding in sequence, but including it when there are descriptive passages or "flashbacks":

Apuzotyel da ane o saam biig ma'aa. Ka daar yinni ka biig la ne o saam zin'i sonsid. Ka biig la ti yel o saam ye ...

À-Pō-zót-yēl dá à né ò sàam bìig mà'aa.

PERS-NEG.IND-fear:IPFV-thing:SG TNS COP FOC 3AN father:SG child:SG only.

Kà dāar yīnní kà bìig lā né ò sàam zīñ'i_ø sōñsīd.

And day:SG one and child:SG ART with 3AN father:SG sit CAT converse:IPFV.

Kà bìig lā tí yèl ò sàam yē ...

And child:SG ART after say 3AN father:SG that...

"Fears-nothing was his father's only son. [And] one day the son and father were sitting talking. [And] then the son said to his father ..." KSS p35

The past-tense marker *dà* occurs only in the first clause. The second *kà* is preposing the time expression *dāar yīnní* in a foregrounding construction, while the first and third are carrying on the narrative.

d represents [d], and *r* represents [r] (often [ʀ] after an epenthetic vowel.) They do not contrast prefix- or root-initially: [d] appears by default, but often [r] phrase-internally after vowels, and always so within compounds:

nō-dâvg [nɔraʊg] "cock" *nā'-dâad* [naɾa:d] "oxen"

d and *r* contrast elsewhere, though in rapid speech *d* can still resemble [r]:

| | | | |
|--------------|----------------|--------------|------------------|
| <i>ɛñdìg</i> | "unplug" | <i>ɛñrīg</i> | "shift along" |
| <i>mōd</i> | "swell" | <i>mōr</i> | "have" |
| <i>yàad</i> | "graves" | <i>yāar</i> | "scatter" |
| <i>zàbìd</i> | "fight" (ipfv) | <i>zàbìr</i> | "fight" (gerund) |

Word-initially, *d* is written throughout, but *r* is often used after prefix vowels: *tīrâan* "neighbour", *àràzàk* "riches", *àràzánà* "heaven", *àràkóñ'* "one."

Within Western Oti-Volta only Mooré and Agolle Kusaal contrast *r* and *d*. Agolle *r* corresponds to Dagbani *l* but *r* elsewhere: Mampruli *yaarim*, Dagbani *yalim* = *yàarìm* "salt"; Mampruli *tubri*, Dagbani *tibili* = *tùb̀̀r* "ear"; Mampruli *mari*, Dagbani *mali* = *mōr* "have." Postvocalic Agolle/Mooré *d* correspond to *r* elsewhere: Mampruli/Dagbani *mɔri* = *mōd* "swell"; Mampruli *moori*, Dagbani *mɔri* = *mōod* "grass."

n is syllabic when representing various particles, and as the number prefix; it assimilates to the position of articulation of a following consonant.

m is syllabic when standing alone as the 1st sg pronoun "I, my"; it does *not* assimilate to a following consonant.

The sequence *-mi* preceding liaison can absorb the vowel to become *-m*:

Gòsīm. "Look at me!" for *Gòsīmī m!*
Gòsīmí f̀̀v̀̀ nù'ug! "Look at your hand!" for *Gòsīm f̀̀v̀̀ nù'ug!*

kp gb represent [k̠p̠] [g̠b̠]; *kp* is unaspirated. They occur only before unrounded vowels, and (for some speakers) in prefixes like *kp̀̀v̀̀kp̀̀r̀̀g/k̀̀v̀̀kp̀̀r̀̀g* "palm tree." They represent labialised velars in loans: *bákpàɛ* "week", Hausa *bakwài* "seven."

y w are [j] [w] respectively. They are strongly nasalised before nasalised vowels, and are then written *ñy ñw* with no nasalisation marking on the vowel:

ñyē [j̃ɛ̃] "see" *ñwādīg* [w̃ãdɪg] "moon"

ñy ñw reflect earlier initial *n ñm* respectively, cf Dagbani *nyá* "see", *ɲmariga* "moon." Some Toende speakers retain initial [ɲ] [ɲm]. Kusaal initial nasalised vowels reflect earlier initial *ɲ*: Dagbani *ɲubi*, Kusaal *òñb* "chew."

2.2 Vowels

The vowel system displays marked **positional prominence**. Diphthongs, glottalisation, emic nasalisation and full quality contrasts appear only in roots 3.3.

Agolle Kusaal has a nine-vowel system. Seven of these are written by default as *a ε ɔ i u ɪ v*, respectively [a] [ɛ] [ɔ] [i] [u] [ɪ] [ʊ]; the corresponding long vowels contrast with short vowels in length, but not quality, and are written by doubling the vowel symbol: *bāa* [ba:] "dog." *Mà'àa* "only" has a unique overlong monophthong. The vowel *ɪ* is more central after velars and labials, and *v* is slightly fronted after alveolars and *y*; *u* is fronted after alveolars: *zūg* "head" [zyg].

Lax *ɪ v* do not appear after *m* or *n* in roots or prefixes. Distinctions of short *i/ɪ* and *u/v* have a very low functional load even in roots. The allophony [ɪ]~[i] and [ʊ]~[u] in epenthetic and prefix vowels 3.3 is ignored, only *ɪ v* being used in writing.

The two remaining vowels are the **broken vowels** *ja ua*; the corresponding long vowels are *iə uə*. Though realised [ɪa] [ʊa] [iə] [uə] as written, they pattern throughout as *monophthongs*, and will be referred to as such below. Before *y* word-internally, *ja ua* are realised [ɪɪ] [ʊɪ] and written *je ue*.

| | | | | | |
|---------------|----------|------------------|--------------|---------|----------|
| <i>tjàk</i> | [tɹak] | "change" | <i>puāk</i> | [pʊak] | "female" |
| <i>kpjà'</i> | [kɹɪa] | "shape wood" | <i>kjà</i> | [kɪa] | "cut" |
| <i>pjàlɪg</i> | [piəlɪg] | "white" | <i>bū'əs</i> | [bʊəs] | "ask" |
| <i>bjēyá</i> | [bɪjja] | "elder siblings" | <i>suēyá</i> | [sʊɪja] | "roads" |

Word-final *iə uə* only occur through monophthongisation in external sandhi 4.2 4.3; before prosodic clitics they diphthongise to *ia ua* respectively.

Nasalised *ian uən* (including after *m n*) occur only before underlying **g*, and in the ipfv of fusion verbs by analogy 3.7. Elsewhere they have fallen together with *εñ ɔñ*: cf *nɔɔr* "times", Mooré *náooré*, *nɔɔr* "mouth", Mooré *nóorè*.

Short *ja ua* have just two origins. Apocope 3.2 shortens final *iə uə* to *ja ua*:

| | | | | | |
|------------|------------------|-------|------------|------------------|-------|
| <i>kjà</i> | SF of <i>kja</i> | "cut" | <i>kuā</i> | SF of <i>kua</i> | "hoe" |
|------------|------------------|-------|------------|------------------|-------|

Elsewhere, *ja ua* replace *ε ɔ* before *k* and before underlying **g*, which is deleted with vowel fusion 3.7. *Bðk* "pit" (vs *bɹàk* "split") is due to the change **ɹakkv* → *ɔkkv*; other *εk ɔk* arise by shortening of long vowels before *k* (see below), as with *tēk* "pull" (vs *tjàk* "change.")

Toende Kusaal here preserves phonetic monophthongs: Toende *sēēs* = *sīēs* "waists" vs *pē'ēs* = *pē'ēs* "sheep (pl)"; *bó'ɔs* = *bū'əs* "ask" vs *tōom* = *tōom* "depart." Mooré *oo* corresponds to Toende *ɔɔ*/Agolle *uə*, but Mooré *ao* to Toende *ɔɔ*/Agolle *ɔɔ*: Mooré *bàoda*, Toende *bòòt*, Agolle *bòòd*, "want, wish."

Non-glottalised long vowels are shortened word-internally before *k t p* and *y*:

| | | | |
|-------------|------------|------------|----------------------|
| <i>gàad</i> | "pass" pfv | <i>gàt</i> | "pass" ipfv |
| <i>tēεg</i> | "drag" | <i>tēk</i> | "pull" (*tεεkkɪ) |
| <i>tōcg</i> | "bitter" | <i>tōc</i> | "be bitter" (*tōcya) |

The process also applies in loanwords: *àtìyuk* "sea" ← Hausa *tèeku*, *kótò* "court."

All sequences of dissimilar vowel symbols other than *ja ya je ye ie eo* represent phonemic **diphthongs**. After a vowel symbol *e* represents [ɪ], *i* is [i] (found only after *u*), and *u* represents [ʊ]:

| | | | | | |
|-------------|-------|---------|---------------|---------|------------|
| <i>sōḡñ</i> | [sõɪ] | "witch" | <i>mùj</i> | [mũj] | "rice" |
| <i>dāu</i> | [daʊ] | "man" | <i>bjāuñk</i> | [bjãʊk] | "shoulder" |

Unlike *y w*, *e i u* do not form syllable boundaries. Initial *ya* contrasts with *ja* in tenseness and timing: *jā* "seek" and *yā* "houses" contrast as [ja] ~ [ja:], not [ʔja] ~ [ja].

Primary diphthongs arise from word-final *Vw *Vy 3.4 and from fronting, rounding and fusion 3.6 3.7. All also occur nasalised, and if not short, glottalised; those written glottalised below *only* occur glottalised. As non-initial elements, [ɪ] is written *e* except after *ε*, and [ʊ] is written *o* except after *a*.

| | | |
|--|--|--|
| | <i>ia</i> [ia] <i>ja'a</i> [ja:] <i>ua</i> [ua] <i>v'a</i> [ʋa] | <i>iaa</i> [ia:] <i>uaa</i> [ua:] |
| <i>aḡ</i> [aɪ] <i>ɔḡ</i> [ɔɪ] <i>uḡ</i> [uɪ] <i>vḡ</i> [ʋɪ] | <i>ae</i> [aɪ] <i>ie</i> [iɪ] <i>ɔ'e</i> [ɔɪ] <i>ui</i> [ui] <i>ue</i> [uɪ] <i>v'e</i> [ʋɪ] | <i>aeē</i> [aɪ:] <i>ieē</i> [iɪ:] <i>ueē</i> [uɪ:] |
| <i>aḡ</i> [aʊ] <i>εḡ</i> [εʊ] <i>jaḡ</i> [jaʊ] <i>ɪḡ</i> [ɪʊ] | <i>av</i> [aʊ] <i>εo</i> [εʊ] <i>iu</i> [iu] <i>io</i> [iʊ] | |

The diphthongs *v'a vñ'a* appear as *ɥ'aa ɥñ'aa* respectively when LF-final. Long diphthongs become overlong before the polar-question prosodic clitic 4.1.

Diphthongs may be short, long, or overlong 2.3. The only length contrasts in identical environments are *avŋ/aʊŋ* and word-final *ae/aē*. Rounding diphthongs occur only word-finally and before velars, fronting diphthongs word-finally and before *y*.

Secondary diphthongs are created by *replacement* of final morae of word-final root vowels by [ɪ] (never [i]) before the liaison word 4.2 2pl subject ^{va} and by [ʊ] (never [u]) before the liaison word ^o "him/her." Any vowel may precede:

| | | |
|----------------------|-------------|---------------|
| <i>zūó=ó</i> [zuɔ:] | "steal him" | Long Form 3.2 |
| <i>zúó</i> [zuɔ] | "steal him" | Short Form |
| <i>bēiyá</i> [beɪja] | "be ye!" | Long Form |
| <i>bēi</i> [beɪ] | "be ye!" | Short Form |

The symbol *o* is used for [ʊ] both in the 3sg pronoun *o* and in the mora preceding it in liaison: thus *dāʊg* [daʊg] "male", but e.g.

| | | | |
|----------------------|------------------|------------------|--------------|
| <i>ò bīg</i> [ɔbi:g] | "her child" | <i>zúó</i> [zuɔ] | "steal him" |
| <i>dà'o</i> [daʊ] | "bought for him" | <i>āño</i> [ãõ] | "be him/her" |

Nasalisation is automatic on long vowels after *m n*: *mèéd* "build" ipfv [mẽ:d]. Elsewhere it is marked by a following *ñ*, but if the vowel or diphthong is also glottalised, *ñ* precedes the ' mark, and after initial *y* or *w*, *ñ* precedes the *y* or *w*; *ñ* also precedes *o* [ʊ] before the 3sg pronoun: *āño* [ãõ] "be him/her."

| | | | |
|----------------------|------------------|---------------------|--------------------|
| <i>tēēñs</i> [tẽ:s] | "lands" | <i>áñsìb</i> [ãsɪb] | "mother's brother" |
| <i>gēñ</i> [gẽ] | "get tired" | <i>gēñ'</i> [gẽʔ] | "get angry" |
| <i>gēñ'ed</i> [gẽ:d] | "get angry" ipfv | <i>ñwām</i> [wãm] | "calabash" |

There are no short **iñ *vñ*. Short *iñ uñ* nearly always arise from apocope 3.2 of *iiñ uuñ*, as in *sīñf* "bee" cb *sīñ-*, *zùuñg* "vulture", cb *zùñ-*; the only exception is *sūñf* "heart" (pl *sūñyá*), written *svnf* in KB. Nasalised *iñ uñ* occur only in fusion verbs 3.7. Nasalisation may result after lost initial **ŋ *ɲ *ŋ̄m* or before underlying **ns *nf*; so with all *uñ vñ*: *píuñf* "genet", pl *pīuñí*; *zú'vñf* "dawadawa seed", pl *zū'vñí*; *tèŋ-zùvñs* "foreign lands", sg *tèŋ-zùŋ*.

Glottalisation does not affect vowel quality. It may be realised as creakiness or as [ʔ] after the first mora; this [ʔ] is never treated as a consonant. Glottalisation is marked by ' following the first/only vowel symbol (including *u*) other than *i*:

| | | | |
|---------------------|-------------|----------------------|----------|
| <i>dà'</i> [dɑ] | "buy" | <i>dà'a</i> [dɑ:] | "market" |
| <i>kù'əm</i> [kuəm] | "water" | <i>pɹ'ā</i> [pɹɑ] | "woman" |
| <i>kɹì'a</i> [kɹiɑ] | "neighbour" | <i>kɹi'à</i> [kɹiɑʔ] | "carve" |

Word-final short vowels and diphthongs ending statements and commands, but not questions, become glottalised; for example *dāy* "man" is realised [d̥ɑ̃]/[d̥ɑ̃ʔ], and *gēñ* "get tired" falls together with *gēñ'* "get angry."

Farefare, Talni and Nabit also preserve glottalisation: Farefare *yú'úré* "name" = *yū'vr*, Talni *kwoʔm* "water" = *kù'əm*, Nabit *kpa'uŋ* "guinea fowl" = *kpá'vŋ*. Nawdm has *h* [ʔ] in many cognates, e.g. *béhǵú* "bad" = *bē'og*, *dañ-* "buy" = *dà'*.

Glottalised short vowels arise by apocope 3.2. Besides *kā'g* "not be" (**kag*) all other cases precede *m* or *ŋ* in closed syllables, e.g. *kpè'ŋ* "strengthen", *lā'ŋ* "set alight", *nī'm* "meat", *kō'm* "hunger", *sò'ŋā* "well", *sò'm* "goodness" (but only *sòŋ* pl *sòmà* "good.") The vowels are traditionally written long: *sv'vŋa* etc. Only Agolle Kusaal shows this phenomenon, and only some informants. It probably arose from gemination of *m ŋ*; KB has 385 examples of *an svm* to 47 of *an sv'vm àñ sóm* "is good", but 30 of *ka' svm* to 40 of *ka' sv'vm kā' súmm* "is not good."

Yām/yā'am were probably originally distinct words: *yām* "sense" (Buli *yám*, Nawdm *rárm*) and *yā'am* "gall bladder" (Farefare *yá'ám*, Buli *yáam*, Nawdm *ráhím*.)

2.3 Syllables and tonemes

Syllables may be light (C)V or heavy (C)VV~(C)VC~(C)VVC; (C)VVC syllables are *superheavy*. A CV syllable is *superlight* if it is not word-initial, word-final or root-initial, and preceded by a CV syllable which is not itself superlight, working from left to right: *dī'əsídibà* "receivers", *sīgísídibà* "lowerers", *mòlifo* "gazelle." Three-mora vowel sequences are *disyllabic*, dividing after the first mora: Long Form *nū-áa* "hen."

Stress falls on the root syllables of free words, but is subject to complex sandhi phenomena which have yet to be properly investigated. It is probably never contrastive, and roots can be reinterpreted as prefixes: *dítóŋ* "right hand" is derived from *dì* "eat", but also appears as *dàtìŋ*, while *bōtīŋ* "cup" is the instrument noun from *bòd* "plant seeds", but has the plural *bōtīs*, as if from *bō* + *tīŋ*.

Stress affects the realisation of the H toneme, but the relevant phenomena can be described by reference to syllable weight alone.

Tone is mostly distinctive as a syntactic marker, but lexical minimal pairs are quite common, e.g. *bōk* "weaken", *bòk* "cast lots"; *kōk* "chair", *kòk* "ghost."

The tone-bearing unit is the syllable. Superlight syllables and catenator-*n* are toneless; the toneme of the preceding syllable extends over them. Being disyllabic, overlong diphthongs carry two tonemes, as in the Long Form 3.2 *nūáa* "hen."

There are four tonemes: High (H), marked ´: *gél* "egg"; Mid (M), marked ¨: *bāŋ* "ring"; Low (L), marked `: *bòk* "pit"; and Circumflex (X): *nû'ug* "hand." When *i* carries a tone mark the dot is written below: *bīg* "child."

X toneme only appears on superheavy CVVC syllables; on CVV syllables, H replaces X: *nû'ug* "hand", *náaf* "cow", but Long Forms *nú'ugò*, *náafò*.

Kusaal M corresponds to the H of other Western Oti-Volta languages. Kusaal H and X arise from ML sequences by synchronic and diachronic tone sandhi.

M toneme is always realised as a level tone; L and H are level except before pause, where they are realised as falling tones beginning at their usual pitch.

X is realised as a falling tone from H to L pitch from first to second mora, differing from H on a superheavy syllable before pause, where the pitch fall occurs on the second mora: contrast *mān sām* "my father", *mān sām* "my guests."

Superlight syllables are toneless:

Bà kā' dī'əsídībā=∅. "They are not receivers."
3PL NEG.BE receiver:PL=NEG.

Lì kā' mólif̄=∅. "It's not a gazelle."
3IN NEG.BE gazelle:SG=NEG.

vs *Ò p̄v zábì=f̄=∅.* "He didn't fight you."
3AN NEG.IND fight=2SG=NEG. (word-final syllable)

Ka ya pv siakida. "But you did not agree." (Lk 13:34)
Kà yà p̄v s̄jákìdā=∅. (*k* /kk/ closes the preceding syllable)
And 2PL NEG.IND agree:IPFV=NEG.

H and X tonemes are in certain contexts realised with a preceding downstep, lowering the initial pitch to the level of the last preceding M toneme; the relationship to following tonemes is unaffected. Without an intervening pause,

| | | |
|----|---|---|
| HH | → | H↓H |
| HX | → | H↓X |
| MH | → | M↓H if the next syllable is superheavy CVVC or if the next syllable precedes pause and is not L |

Downstep (marked with ↓) between HH and HX:

Ṁ gós ↓náaf lā bēogū=n.
1SG look.at cow:SG ART morning=LOC.
"I looked at the cow in the morning."

Ṁ gós ↓nū'ug lā bēogū=n.
1SG look.at hand:SG ART morning=LOC.
"I looked at the hand in the morning."

vs *Kà m̄ gōs náaf lā bēogō=n.*
 And 1SG look.at donkey:SG ART morning=LOC.
 "And I looked at the cow in the morning."

Kà m̄ gōs nū'ug lā bēogō=n.
 And 1SG look.at hand:SG ART morning=LOC.
 "And I looked at the hand in the morning."

MH → M↓H before a superheavy CVVC syllable:

Lì à nē ↓pú-kòǎnr lā. "It's the widow."
 3IN COP FOC widow:SG ART.

Bīg lā ↓sá mēed yīr lā.
 Child:SG ART TNS build:IPFV house:SG ART.
 "The child was building the house yesterday."

Mān ↓bú-pìəl kā'e=∅. "My white goat isn't there."
 1SG.CNTR goat-white:SG NEG.BE=NEG.

vs *Lì kā' pú-kòǎnrē=∅.* "It's not a widow."
 3IN NEG.BE widow:SG=NEG.

Bīg lā sá mē yīr lā. "The child built the house yesterday."
 Child:SG ART TNS build house:SG ART.

Mān bú-sùŋ kā'e=∅. "My good goat isn't there."
 1SG.CNTR goat-good:SG NEG.BE=NEG.

Mān kúkōr kā'e=∅. "My voice isn't there."
 1SG.CNTR voice:SG NEG.BE=NEG.

MH → M↓H when the next syllable is followed by pause, and is not L:

Kà m̄ gōs ↓búŋ lā. "And I looked at the donkey."
 And 1SG look.at donkey:SG ART.

Yō↓gúm kā'e=∅. "There's no camel."
 Camel:SG NEG.BE=NEG.

Lì à nē ↓náaf lā.

3IN COP FOC COW:SG ART.

"It's the cow."

Ò p̄ yādi ↓gídā=∅.

3AN NEG.IND scatter:IPFV=NEG.

"He isn't scattering."

Lì k̄ā' bī- ↓púḡā=∅.

3IN NEG.BE child-girl:SG=NEG.

"It's not a girl."

Ò p̄ ñyē ↓sú'ugā=∅.

3AN NEG.IND see knife:SG=NEG.

"She didn't find a knife."

Lì k̄ā' ñyī ↓rífō=∅.

3IN NEG.BE egusi:SG=NEG.

"It's not an egusi seed."

vs *Kà m̄ gōs búḡ lā bēogū=n.*

And 1SG look.at donkey:SG ART morning=LOC.

"And I looked at the donkey in the morning." (*lā* not prepausal)

Yūḡóm lā k̄ā'e=∅.

Camel:SG ART NEG.BE=NEG.

"The camel's not there."

(*lā* not prepausal)

Lì à nē dōḡ lā.

3IN COP FOC hut:SG ART.

"It's the hut." (MX not MH)

Ànó'òní ∅ yādiḡídā=∅?

Who CAT scatter:IPFV=CQ?

"Who is scattering?" (L after H)

Lì k̄ā' bī-púḡā=∅?

3IN NEG.BE child-girl:SG=PQ?

"Isn't it a girl?" (L after H)

Ànó'òní ∅ ñyē sú'ugā=∅?

Who CAT see knife:SG=CQ.

"Who found a knife?" (L after H)

Ò p̄ dúḡè=∅=∅?

3AN NEG.IND cook=NEG=PQ.

"Didn't she cook?" (L after H)

Ò p̄ ñyē mólífō=∅.

3AN NEG.IND see gazelle:SG=NEG.

"She didn't find a gazelle."

(Superlight *-l̄-* intervenes before the prepausal syllable *-fō*.)

2.4 Traditional orthography

Tone is unmarked. For word division see [3.1](#). KSS uses *ng* for *ŋ*.

Before 2016, *e o* were used for *ε ɔ*, *i* for *i ~ ɪ*, and *u* for *u ~ ʊ*; *e o* were also sporadically used for *ɪ ʊ* as root vowels. KB has the same basic conventions as this grammar except for using *i* for both [i] and [ɪ]: *tiig tìig* "tree", *biig bīig* "child."

Word-final short *-ɪ* after *m n* is usually written *ε* in KB; so always with the pronouns *one kane line bane anɔ'one*.

KB has *ye* "that", *teŋ* "land", *keŋ* "go" pfv, *ken* "go" ipfv for *yē tēŋ kēŋ kēn*, and *on oŋa* for the pronouns *ōn/ón/òñ òŋā*, probably reflecting actual variants with [ɪ] [ʊ]: cf Toende *tīŋ* "land" versus *meŋ mēŋ* "self" (Mampruli *tiŋŋa, maŋŋa*.)

After *a* or *ɔ* epenthetic *ɪ* is often written *e*: *sanrega sārīgá* "prison."

ie is used for *iə* and *ie*, but they are almost in complementary distribution.

uo is used for *uə* and *uo*, but traditional orthography always separates the vowel symbols in the latter case: *bu'os bū'əs* "ask", *zu o zúo* "steal him."

KB writes *-uoe -voe* for *-ue -ve*: *duoe dūe* "raise, rise", *sv'oe sv'e* "own."

io [iʊ] is written *ieu* in the 1996 NT and KB: *kpi'eueŋ kpī'ioŋ* "strong."

e i u are used for *ɛ ɪ ʊ*. The contrast *ae/aɛ* is expressed by writing *aae* (or *aaɛ*) for *ae*, e.g. *paae pāe* "reach." KB spells words consistently with either *au* or *av*, but not distinguishing *au/av*: *yavɔ yāvɔ* "grave", *na'araug nā'-dāvɔ* "ox", *dau dāu* "man", *tavn tāvñ* "sibling of opposite sex." The symbols *ia ua* are used for *ɪa ʊa* and *ia ua*: *kia kɪà* "cut", *sia sīa* "waist"; *kua kuā* "hoe", *sabua sàbùà* "lover." The glottalisation marking conventions distinguish *kpi'a kpì'à* "carve", *kpi'a kpì'a* "neighbour."

Before 2016, *ʊ'a v'a* were both usually written *o'a*, but KB has *u'a*: *pu'a pū'ā* "woman", *pu'ab pū'ab* "women."

Long Forms [3.2](#) with final *-ya* corresponding to Short Forms with final *-ɛ* are written with *-eya*: *vveya vōyá* "be alive." Older texts also write *bōn-vóyà* "living things" as *bunvoeya*, but KB has *bunvuya*.

KB writes *bieya biēyá* "elder same-sex siblings", but *suoya suēyá* "roads", *zuoya zūēyā* "hills" etc; older sources have *sueya, zueya*.

y is omitted in *dunia dūnyā* "world", *laafia láafiyà* "health."

For nasalisation, plain *n* is used for *ñ*, e.g. *tɛens tēēñs* "lands", *gen' gēñ'* "get angry", *gen'ed gēñ'ed* "get angry" (ipfv), *nwam ñwām* "calabash."

When *n* would be word-final without even a following glottalisation mark, the orthography formerly wrote *nn* for *ñ*, but the 2016 system has unfortunately adopted an ambiguous single *n*: *gaan gāañ* [gã:] "ebony tree", *daan dāan* [da:n] "owner."

3 Word structure

Open word classes comprise verbs and nominals. Nominals are subdivided into nouns and adjectives, along with closed subclasses of quantifiers, adverbs, and pronominals. Ideophones are a distinct group. All other words are "particles."

Segmental rules apply in the order: consonant assimilation/epenthetic vowel insertion [3.5](#), vowel fronting/rounding [3.6](#), *g-deletion/vowel fusion [3.7](#), apocope [3.2](#). Tone Patterns allocate tonemes prior to all deletions of segments [3.8.1](#).

3.1 Word boundaries

Free words fulfil the concept of "word" expressed in Bloomfield 1926: "a form which may be uttered alone (with meaning) but cannot be analysed into parts that may (all of them) be uttered alone (with meaning.)" Many bound forms are also best regarded as words. Nominals regularly have "combining forms" (cbs), used as initial members of compounds: cbs may be dependents, but are more often NP heads before adjectives and demonstratives: *tì-kàṅā* "this tree." There are no consistent phonological differences between cbs and free words, and compounds may include unbound words: [*ānzúrìfà nē sālīmā lá'*]-*māan* "[silver and gold goods]-maker."

Word status for other bound forms depends on distinguishing them from affixes. Bound personal pronouns and many particles resemble free-word affixes segmentally, but differ in tonal behaviour, mode of attachment, and distribution.

Stress allocation does not distinguish between bound and free words, and tone does not distinguish between right-bound and free words. However, left-bound liaison words [4.2](#) are distinct segmentally and tonally both from free words and from other left-bound words; the term **clitic** will be reserved for these words and for "prosodic" clitics [4.1](#). Clitics are preceded by = in the working orthography whenever they have a non-zero segmental form; with interlinear glossing, = \emptyset is also used.

Boundness is distinct from syntactic *dependency*. Most open-class words are neither bound nor intrinsically dependent, and most particles are both bound and intrinsically dependent. However, combining forms, though always bound, may be dependents or heads, and personal pronouns always head their own NPs: Kusaal has no possessive pronouns, only possessive NPs.

In this grammar nominals with prefixes, loanwords, and unanalysable stems are written solid, but combining forms are hyphenated to the following word:

| | | | |
|--------------------|-----------------|---------------------|-------------------|
| <i>bòrkìn</i> | "honest person" | <i>kpòkparìg</i> | "palm tree" |
| <i>zīm-gbāñ'ad</i> | "fisherman" | <i>bò-pìèlìg</i> | "white goat" |
| <i>bò-kàṅā</i> | "this goat" | <i>bò-pìèl-kàṅā</i> | "this white goat" |

3.2 Apocope

Every Kusaal word which can potentially stand clause finally has two surface forms, which differ in nearly all cases, the **Long Form** (LF) and the **Short Form** (SF.) For example, "child" usually appears as the SF *b̄ig*:

Ò dāa ñyē b̄ig. "She saw a child."
3AN TNS see child:SG.

b̄ig lā nū'ug "the child's hand"
child:SG ART hand:SG

Among other cases described below, a LF is found in the final word of clauses with a **negation** (negative particle or negative verb), of **questions**, both content and polar, and of clauses used as **vocatives**. Thus the LF *b̄igā* is seen in

Ò dāa p̄ ñyē b̄igā=∅. "He/she did not see a child."
3AN TNS NEG.IND see child:SG=NEG.

Ànó'òní ∅ dāa ñyē b̄igā=∅?
Who CAT TNS see child:SG=CQ?
"Who saw a child?"

M̄ b̄igā=∅! "My child!"
1SG child:SG=VOC!

The SF is derivable from the LF by **apocope**. The term "apocope" will be used exclusively for this process below.

| |
|--|
| A final long vowel is shortened and a final short vowel is deleted. Final diphthongs shorten by one mora. |
|--|

| |
|--------------|
| Subsequently |
|--------------|

| |
|---|
| Word-final consonant clusters drop the second consonant |
|---|

| |
|--|
| (<i>kk tt pp ηη</i> become <i>k t p η</i> but are written single in any case) |
|--|

| |
|---|
| Word-final <i>y</i> becomes <i>ɣ</i> after back vowels and zero elsewhere |
|---|

The shortening changes of final diphthongs induced by apocope are

| | | | |
|------------------------|------------------------|--------------------------|--------------------------|
| <i>ia</i> → <i>ja</i> | <i>ua</i> → <i>ya</i> | <i>ja'a</i> → <i>ja'</i> | <i>ɣ'aa</i> → <i>ɣ'a</i> |
| <i>ae</i> → <i>aɣ</i> | <i>av</i> → <i>aɸ</i> | <i>ui</i> → <i>ɸi</i> | |
| <i>Vaa</i> → <i>Va</i> | <i>Vee</i> → <i>Ve</i> | <i>Vvv</i> → <i>Vv</i> | |

Identical changes occur with nasalised and/or glottalised diphthongs.

Apocope is described as a single rule, but comparative and internal evidence shows that loss of quality contrasts preceded complete deletion of word-final vowels clause-medially, which was itself distinct from the clause-final apocope characteristic of Kusaal, Nabit and Talni. In Toende Kusaal, apocope still involves two steps 2.1.

Examples:

Lì à nē dōk. "It's a cooking pot."
3IN COP FOC pot:SG.

Dōk lā bódìg yā. "The pot has got lost."
Pot:SG ART get.lost PFV.

Lì kā' dōkó=∅. "It's not a pot." (/kk/)
3IN NEG.BE pot:SG=NEG.

Lì à nē dōkó=∅? "Is it a pot?"
3IN COP FOC pot:SG=PQ?

Ánó'ónì ∅ ñyē dōkó=∅? "Who saw a pot?"
Who CAT see pot:SG=CQ?

Similarly, with the same frames (also using *ò* 3AN "he/she", *bà* 3PL "they"):

Lì à nē kōk. "It's a chair."

Lì kā' kōkā. "It's not a chair."

Lì à nē kúkàa? "Is it a chair?"

Lì à nē gbīgīm. "It's a lion."

Lì kā' gbīgīmnē. "It's not a lion."

Lì à nē yáarìm. "It's salt."

Lì kā' yáarīmm. "It's not salt."

Bà à nē gbīgīmā. "They're lions."

Bà kā' gbīgīmāa. "They're not lions."

Ò à nē dāy. "He's a man."

Ò kā' dāv. "He's not a man."

| | |
|---|---|
| <i>Kà ò sjàk.</i> And 3AN agree. | "And he agreed." |
| <i>Ò p̄v sjàkē=∅.</i> 3AN NEG.IND agree=NEG. | "He didn't agree." |
| <i>Kà ò dīgī.</i> <i>Ò p̄v dīgíyá.</i> | "And she's lying down." "She isn't lying down." |
| <i>Kà ò v̄v̄.</i> <i>Ò p̄v v̄v̄yá.</i> | "And she's alive." "She's not alive." |
| <i>Kà ò kǐá.</i> <i>Ò p̄v kǐa.</i> | "And she cut (it)." "She hasn't cut (it)." |
| <i>Kà ò p̄a.</i> <i>Ò p̄v p̄áe.</i> | "And he reached (it)." "He hasn't reached (it)." |

The appearance of clause-final LFs is triggered by following **prosodic clitics**, which have no segmental form themselves 4.1. LFs occur clause-medially before **liaison words** 4.2, and as the *citation* forms of **apocope-blocked** words. The exact shape of a LF differs in these different contexts: length and quality of final vowels may be altered or neutralised, and final tonemes altered. For convenience, the LF preceding the negative prosodic clitic will be taken as basic segmentally.

The LF is historically primary, but it can usually be predicted from the SF given the aspect of a verb or the gender of a noun. Apocope often does *not* lead to loss of contrasts despite deleting the segments which conditioned them, and working in reverse, such features can predict LFs from SFs. Historically expected LFs may be replaced by other forms with the same SFs. Nevertheless, LFs are best regarded as synchronically primary. Consonant-final SFs may have LFs ending in *a* *ε* or *ɔ*, final *m* *n* or *l* may or may not be geminated, and *m* may become *mn* or *mm*. The issues with consonants arise even before liaison:

ka ban ka kikirbe'ednam daamne ba daa nye laafiya
kà bàn kà kìkīr-bê'ed-nàm dâamnī=bá dāa ñyē láafiya
 and REL.PL and fairy-bad-PL trouble:IPFV=3PL TNS see health
 "And people who were afflicted by evil spirits became well." (Lk 6:18, 1976)

The default LF ending corresponding to SFs ending in a consonant is *-ε*. Thus with loans like *tīlās* "necessity", LF *tīlāsè* from Hausa *tiilàs id*, and in e.g.

Pu'abi du'a sieba la wōsa, sō' kae gat Joon ne [sic 3.1].

Pō'abí=∅ dū'à sīēbā lā wōsā, sō' kā'e ∅ gát Joone=∅.

Woman:PL=NZ bear INDF.PL ART all, INDF.AN NEG.BE CAT pass:IPFV John=NEG.

"Of all those born of women, none surpasses John." (Lk 7: 28)

All SFs ending in vowels other than long monophthongs, front vowels or fronting diphthongs have LFs obtainable simply by lengthening the final vowel or diphthong, as do most but not all SFs ending in fronting diphthongs or front vowels:

| | | | | | |
|--------------|------------------|--------------|--------------|------------------|--------------|
| <i>zò</i> | LF <i>zòò</i> | "run" | <i>kūgá</i> | LF <i>kūgáa</i> | "stones" |
| <i>sā</i> | LF <i>sāā</i> | "waist" | <i>sàbùà</i> | LF <i>sàbùàa</i> | "girlfriend" |
| <i>kpià'</i> | LF <i>kpià'a</i> | "carve wood" | <i>dāy</i> | LF <i>dāv</i> | "man" |
| <i>wìdì</i> | LF <i>wìdìi</i> | "horses" | <i>pāe</i> | LF <i>pāée</i> | "reach" |
| <i>nìe</i> | LF <i>nìèe</i> | "appear" | <i>dūe</i> | LF <i>dūée</i> | "raise/rise" |

SFs ending in *ja' u'ā* may have LFs in *ja'a u'aa* or *i'a u'a* (see below.)

Some SFs ending in fronting diphthongs or front vowels have LFs in *-ya*.

In two nouns this appears as a variant: *sāēñ* "blacksmith", LF *sāēñ* or *sāñyā* and *sōēñ* "witch", LF *sōēñ* or *sōñyā*. All other LFs in *-ya* occur in single-aspect verbs 7.2, where LF *-ya* corresponds to all vowel-final SFs except in a few bare root forms:

| | | | | | |
|-------------|------------------|------------|------------|----------------|------------|
| <i>dīgī</i> | LF <i>dīgīyá</i> | "be lying" | <i>vōē</i> | LF <i>vōyá</i> | "be alive" |
|-------------|------------------|------------|------------|----------------|------------|

Words in isolation will be cited in **superscript notation**, writing forms with the portion of the LF which does not appear in the SF as a following superscript.

| | | | |
|----------------------------|-----------------|---------------------------|---------------|
| <i>bīg^a</i> | "child" | <i>kōk^a</i> | "chair" |
| <i>dōk^{ɔ'}</i> | "pot" | <i>sìàk^ε</i> | "agree" |
| <i>gbīgīm^{ne}</i> | "lion" | <i>yàarìm^m</i> | "salt" |
| <i>dīgī^{ya'}</i> | "be lying down" | <i>zì'e^{ya}</i> | "be standing" |

Words with LFs in *-ya* where SF-final *y* becomes *ē* are written with ^{ya}:

| | | | |
|--------------------------|------------|---------------|----------------|
| <i>vōē^{ya'}</i> | "be alive" | SF <i>vōē</i> | LF <i>vōyá</i> |
|--------------------------|------------|---------------|----------------|

When there is no superscript (other than /, see below) written after a SF ending in a vowel, the LF is segmentally the same, but with prolongation of any final vowel sequence other than a *long monophthong* 4.1:

| | | | |
|----------------|------------|-------------------|--------------------|
| <i>gbīgīmā</i> | "lions" | SF <i>gbīgīmā</i> | LF <i>gbīgīmāa</i> |
| <i>mòlì</i> | "gazelles" | SF <i>mòlì</i> | LF <i>mòlìi</i> |

| | | | |
|---------------|--------------|------------------|------------------|
| <i>gòñ</i> | "hunt" | SF <i>gòñ</i> | LF <i>gòòñ</i> |
| <i>dī'e'</i> | "receive" | SF <i>dī'e</i> | LF <i>dī'éé</i> |
| <i>nūa'</i> | "hen" | SF <i>nūa</i> | LF <i>nūáa</i> |
| <i>kɔ̀jà'</i> | "shape wood" | SF <i>kɔ̀jà'</i> | LF <i>kɔ̀'ja</i> |
| <i>kuā</i> | "hoe" | SF <i>kuā</i> | LF <i>kūa</i> |
| <i>dāu</i> | "man" | SF <i>dāu</i> | LF <i>dāv</i> |
| <i>sāeñ</i> | "blacksmith" | SF <i>sāeñ</i> | LF <i>sāeñ</i> |
| <i>dà'a</i> | "market" | SF <i>dà'a</i> | LF <i>dà'a</i> |
| <i>àní</i> | "eight" | SF <i>àní</i> | LF <i>àní</i> |

Words ending in LF *ja'a u'aa* rather than *i'a u'a* are written with superscript ^a:

| | | | |
|-------------------------|-------------|----------------|-----------------|
| <i>djā'^a</i> | "get dirty" | SF <i>djā'</i> | LF <i>djā'a</i> |
| <i>pu'ā^a</i> | "woman" | SF <i>pu'ā</i> | LF <i>pu'āa</i> |

A few cases must be written out separately, e.g. *pāmm* SF *pāmné* LF "a lot."

Intrinsic **LF-final tonemes** are L whenever the last stem toneme is L or H, but may be either M or H after stem-final M; superscript notation takes M as the default, writing / after forms with LF-final H: *dōk^{o/}* "pot", LF *dōkó*; *nūa'* "hen", LF *nūáa*.

Words with root X in the SF becoming H in the LF are written with SF tonemes, as are words with a penultimate toneless superlight syllable in the LF:

| | | | |
|---------------------------|------------|-----------------|-------------------|
| <i>nū'ug^o</i> | "hand" | SF <i>nū'ug</i> | LF <i>nú'ugò</i> |
| <i>nóbìr^ε</i> | "foot" | SF <i>nóbìr</i> | LF <i>nóbìrè</i> |
| <i>wābōg^{o/}</i> | "elephant" | SF <i>wābōg</i> | LF <i>wābvogó</i> |
| <i>dìgìr^ε</i> | "dwarf" | SF <i>dìgìr</i> | LF <i>dìgìrè</i> |

Apocope-blocked words use LFs as *citation* forms. Final *ɪ v* do not become *ε ɔ*, but *-mv* becomes *-mm*. Final L tonemes become M. Secondary LFs are created before prosodic clitics by prolonging short final vowels; final M becomes H, except in Pattern A words 3.8. Apocope-blocking is seen in some nouns ending in *-ɪ* or *-v*, as a derivational feature in adverbs and quantifiers, as a downtoning measure with adjectives, and in many words with only one underlying mora, including pronouns.

| | | | |
|--------------|---------|-----------------|----------|
| <i>būudī</i> | "tribe" | <i>bèdvogū'</i> | "a lot" |
| <i>sòṅā'</i> | "well" | <i>yā'</i> | "houses" |

Blocked words which do not end in a short vowel add *-nε* for the secondary LF: *pāmm* SF *pāmné* LF "a lot"; *mà'àa* SF *mà'anè* LF "only"; *gòllīm* SF *gòllìmnè* LF "only"; *kòtāa^{nε}* "at all." The LF of *ñyāe^{nε/}* "brightly, clearly" is similarly *ñyāenè* [jãñẽ]. Cf *mè* DK KT SB NT *mèn* WK; clause-finally (all sources) *mèn^ε* "also, too."

3.3 Roots, stems and flexions

Word structure is based on (C)V(C) or (C)VV(C) **roots**. All vowels may occur in roots. Root-final consonants may only be *b d g l m n s r*. Before vowel-initial flexions CVV root-stems show CVC allomorphs.

Stems are derived from roots by adding up to three of the **derivational suffixes** *b d g l m n s r*. Only *d l m* can follow another suffix. Nominal stems may also have derivational **prefixes** V CV CVN CVs_lN or CV_lN, where *N* is a nasal homorganic with the following consonant and *ɪ* is an epenthetic vowel: *tītā'ar* "big", *bòmbàrìg* "ant", *sīlīnsīuñg* "spider." A few stems have two prefixes. A stem may constitute a word by itself, or may add a single **flexional suffix** (C)V(V) or *-mm* [m:].

Prefixes and flexional suffixes show only the **affix vowels** *a ɪ v aa ɪ v v*. Most bound words of the form (C)V(V) have the same vowel restrictions, though the various particles *nē* show *ɛ* for *ɪ*. Prosodic clitics 4.1 cause short LF-final *ɪ v* to become *ɛ ɔ*, here realised [e] [o]; short *ɪ v* remain only in apocope-blocking 3.2.

Prefix *ɪ v* are realised [i] [u] when the first vowel mora of the root is *i* or *u*; as this is non-contrastive, the orthography uses *ɪ v* throughout. Thus *tītā'ar* [tɪt̪ɑ:r] "big", *kòkɔr* [kɔkɔr] "voice", but *kìkìrìg* [kikirig] "fairy", *sìsì'əm* [sɪsɪɛm] "wind", *sīlīnsīuñg* [silinsĩuŋ] "spider", *vòlìnvùuñl* [vulinvũ:l] "mason wasp", *dòndùug* [dundu:g] "cobra" (KB *dunduug*.) Only [i] [u] occur after *m* or *n*: *nìn-tāa* [ninta:] "co-wife."

As affix vowels, short *ɪ* and *v* contrast only after velars and word-initially: *ɪ* is the default after alveolars, and *v* after labials, labiodentals and labiovelars, but prefixes show *v* rather than *ɪ* before root *u/v/ɔ* (*dòndùug* "cobra") and *ɪ* instead of *v* before *i/ɪ/ɛ* (*kpīkpīn* "merchant.") In flexions *-mm* appears in place of **-mv*; *ɪ* appears after labial consonants only by analogy in pfv LFs like *zàbe* "fight."

No consonant clusters appear word-initially or finally except final *-mm*: *pāmm* "a lot." Homorganic nasal + C may occur after noun prefixes: *kòndòŋ*^a "jackal", *gōmpōzēr*^{ɛ/} "duck", *dànkòŋ* [daŋkɔŋ] "measles." Except in loanwords, the only other word-internal clusters permitted are *kk tt pp ŋŋ nn mm ll mn*.

All other pairs of consonants arising in word formation either assimilate to a permissible cluster or single consonant, or insert an epenthetic vowel:

| | | | | |
|------------------------|-----------------|---|------------------|-----------------|
| Stem <i>nób-</i> "leg" | + sg <i>-rɪ</i> | → | LF <i>nóbɪrɛ</i> | SF <i>nóbìr</i> |
| <i>dūm-</i> "knee" | + sg <i>-rɪ</i> | → | LF <i>dūmnɛ</i> | SF <i>dūm</i> |

The default **epenthetic vowel** is *ɪ*. Before **-gv* **-ŋŋv* it becomes *v* 3.6. A similar **diphthongisation** of root vowels occurs before **-ya* **-gv* **-kkv* **-ŋŋv* and also from deletion of **g* with vowel fusion. Apocope renders these changes contrastive:

| | | |
|------------------|-------------------|-------------------|
| SF <i>āañdīg</i> | LF <i>āañdīgā</i> | "black plum tree" |
| SF <i>gàadùg</i> | LF <i>gàadùgò</i> | "(sur)passing" |

| | | |
|----------------|-----------------|--------|
| SF <i>vīid</i> | LF <i>vīidÉ</i> | "owls" |
| SF <i>vīug</i> | LF <i>vīugó</i> | "owl" |

Epenthetic vowels are also rounded when *preceded* by a short rounded root vowel with intervening *g* (but not *ŋ* or *k*): thus *gbīgīm* "lion" but *yōgúm* "camel." WK also has rounding after *mm* always, and after *b m l* preceded by a short rounded vowel: *yammòg* "slave", *nōbōg* "grow", *kōlōg* "river"; other sources vary.

After a single consonant preceded by short root *i* or *u*, epenthetic *ɪ* *ʊ* are realised [i] [u] respectively; this is not contrastive and is ignored in the orthography: *sīgīd* "lowers" [sigid], *kūgōr* "stone" [kugur].

In superlight syllables 2.3 epenthetic vowels are less prominent, with no vowel quality contrasts at all; elsewhere they have the same prominence as affix vowels.

3.4 Root alternations

Most roots ending in a vowel have either a long or short vowel throughout, but some show length alternation. All *glottalised* roots of this kind are underlyingly *CVg 3.7. In flexion, the non-glottalised type shows long vowels before *-ga* *-go* and short elsewhere, with following **d* → *tt* **b* → *pp* (but not **m* → *mm* or **l* → *ll*):

| | | | |
|---------------------------|------------|---|--|
| <i>dāvgo</i> ^o | "male" | cf <i>dāp</i> ^a | "men" |
| <i>bīg</i> ^a | "child" | cf <i>bīl</i> ^a | "little" |
| <i>dòog</i> ^o | "hut" | pl <i>dòt</i> ^ε | |
| <i>fūug</i> ^{o/} | "clothing" | pl <i>fūt</i> ^{ε/} | |
| <i>ñyē</i> | "see" | ipfv <i>ñyēt</i> ^{a/} | imp <i>ñyèm</i> ^a |
| <i>kē</i> | "allow" | ipfv <i>kēt</i> ^{a/} | imp <i>kèl</i> ^a |
| <i>dì</i> | "eat" | ipfv <i>dīt</i> ^a | imp <i>dìm</i> ^a |
| <i>yī</i> | "emerge" | ipfv <i>yīt</i> ^{a/} | imp <i>yìm</i> ^a |
| <i>zò</i> | "run" | ipfv <i>zòt</i> ^a | imp <i>zòm</i> ^a |
| <i>dō</i> | "rise" | ipfv <i>dōt</i> ^{a/} | imp <i>dòm</i> ^a |
| <i>lù</i> or <i>lì</i> | "fall" | ipfv <i>lùt</i> ^a or <i>lìt</i> ^a | imp <i>lùm</i> ^a or <i>lìm</i> ^a |

VV before sg *-ga* or *-go* may be introduced into the pl, optionally or always: thus *dòogd*^ε "huts", *fūud*^{ε/} "shirts", and always *dāad*^ε "male" pl, *bīs*^ε "children."

Before derivational suffixes the vowel is long:

| | | | |
|----------------------------|---------------|--------------------------|---------|
| <i>dūs</i> ^ε | "feed" | <i>dì</i> | "eat" |
| <i>dàalim</i> ^m | "masculinity" | <i>dāp</i> ^a | "men" |
| <i>vō'vg</i> ^{ε/} | "come alive" | <i>vōr</i> ^{ε/} | "alive" |

Exceptions are *yīs*^ε beside *yīs*^{ε/} "make emerge" from *yī* "emerge"; *gōs*^ε "look", ipfv *gōt*^{a/} or *gōsīd*^{a/}, imp *gòm*^a or *gòsīm*^a; *tīs*^ε "give" ipfv *tīt*^a or *tīsīd*^a.

All regular gerunds show long vowels, as in *ñyēeb*^{o/} "seeing", *nō-lōr*^ε "fasting", but WK has *nā'-lór*^ε "place for tying up cows", *wìd-lōr*^{ε/} "place for tying up horses."

Historically, these roots ended in a consonant preserved before vowel-initial suffixes, assimilated before homorganic consonants, or deleted with vowel fusion.

Evidence for **wb* → *pp* is seen in *dāy* "man" (Mooré *ráo*) pl *dāp*^a; *tāyñ*[/] "sib of opposite sex" pl *tāñp*^{a/}; *tōñ* "shoot" (Mooré *tāo*) *tāñp*^o "war."

CVV roots with CVt- allomorphs typically have Mooré cognates with diphthongs or front vowels derived from **Vy*, e.g. Mooré *lù* "fall" ipfv *lùita* versus *kú* "kill" ipfv *kúvdà*. Sporadic monophthongisation explains *lù* ~ *lì* "fall" and e.g. Kusaal *dòcog*^o, Farefare *dèegò* "hut, room." This **y* is the reflex of a Proto-Oti-Volta **r* (perhaps [r^j]) preserved in Western Oti-Volta when originally geminated or between a long vowel or consonant and **l*, but otherwise becoming **y*. (For the *r/d* contrast see 2.1.)

| | | | | | |
|------------|-------------------------------------|------------------|----------------|----------------|-------------------------|
| | Kusaal | Nawdm | Moba | | |
| <i>*r</i> | <i>(n)yí'</i> | <i>(m)réñ</i> | <i>(n)lé</i> | "two" | |
| | <i>yò</i> | | <i>lōōñ</i> | "close" | |
| | <i>tè'εg^a</i> | <i>tòrá</i> (pl) | <i>tōōlǵ</i> | "baobab" | cf Mooré <i>tòεεgá</i> |
| | <i>dèεg^a</i> | <i>dòrá</i> (pl) | <i>dōōlǵ</i> | "warthog; pig" | cf Mooré pl <i>rètó</i> |
| | <i>zì'e^{y^a}</i> | <i>jehra</i> | | "be standing" | |
| | <i>yàarìm^m</i> | <i>yáàrm</i> | <i>yààlm</i> | "salt" | |
| | <i>nōor^{ε/}</i> | <i>nóór</i> | | "mouth" | |
| | <i>tòbòr^ε</i> | <i>tóbr</i> | <i>tūbì</i> | "ear" | |
| <i>*rr</i> | <i>mōr^{a/}</i> | <i>mada</i> | | "have; hold" | |
| <i>*d</i> | <i>mōd^ε</i> | <i>mɔd</i> | <i>mòl</i> | "swell" | |
| <i>*t</i> | <i>mōɔd^ε</i> | <i>móót</i> | <i>móóɔd</i> | "grass" | |
| | Buli | Byali | Waama | | |
| <i>*r</i> | <i>tūik</i> | <i>tēēbū</i> | <i>tōōrībū</i> | "baobab" | |
| | <i>dùok</i> | <i>dūīgē</i> | <i>dōōrībū</i> | "warthog" | |
| | <i>nóai</i> | <i>nūī</i> | <i>nóré</i> | "mouth" | |

Agolle *r* after a short root vowel reflects **rr* or is due to analogy or borrowing. So, for example, *kpàr*^ε "lock" for expected **kpàd*^ε (cf Dagbani *kpari*, not **kpali*) has *r* from an obsolete **kpàr^a* ← **kparra* ← **kpadra* "be locked" (cf *gùl*^ε "suspend", *gùl^{la}* "be suspended") and the irregular correspondences seen in Mampruli *nyariññu*, Dagbani *ñariñ*, Toende *āaròñ*, Agolle *āñròñ*^o "boat" suggest borrowing.

The roots of *sāqñ^{y^a}* "blacksmith" and *sōqñ^{y^a}* "witch" show no CVt- allomorphs (cf Mooré *sāado* "smithing", *sōodo* "witchcraft"), and were perhaps originally **CVñ*.

Before the noun pl suffix *-aa* unglottalised CV(V)-stems insert *-y-*, with long vowels shortened and *iə uə* becoming *ie ue* [i̥] [u̥], found only in this context:

| | | |
|---------------------------|----------------------|--|
| <i>gāñr^{ε/}</i> | "ebony fruit" | pl <i>gāñyá</i> (short sg vowel from pl) |
| <i>bàlàar^ε</i> | "stick, club" | pl <i>bàlàyà</i> |
| <i>kùkōr^{ε/}</i> | "voice" | pl <i>kùkōyá</i> (*CVy- root) |
| <i>nōōr^{ε/}</i> | "mouth" | pl <i>nōyá</i> |
| <i>zōōr^ε</i> | "tail" | pl <i>zōyā</i> |
| <i>bīār^{ε/}</i> | "elder same-sex sib" | pl <i>bīēyá</i> |
| <i>zūōr^ε</i> | "hill" | pl <i>zūēyā</i> |

Historically, this may represent analogical introduction of the **r* of the sg suffix into the pl, as in the regular Nawdm pattern: *nóór* "mouth" pl *nóórá*.

CVV root-stems change to CVd- before *-aa*:

| | | |
|----------------------------|-----------|------------------|
| <i>tītā'ar^ε</i> | "big" | pl <i>tītādā</i> |
| <i>pòñ'or^ε</i> | "cripple" | pl <i>pòñdà</i> |
| <i>yō'or^{ε/}</i> | "name" | pl <i>yōdá</i> |
| <i>yū'or^ε</i> | "penis" | pl <i>yūdā</i> |

Western Oti-Volta languages without glottalisation treat cognate stems exactly like other CVV-; Farefare has the pattern *yó'oré* "name" pl *yv'ora*.

Stems in **-ag-* **-iag-* **-uag-* may show analogical forms with *-d-*:

| | | |
|--------------------------|---------------------------------|----------------------------------|
| <i>bà'ar^ε</i> | "idol" (Farefare <i>bàgrè</i>) | pl <i>bà'a</i> or <i>bàdà</i> |
| <i>mù'ar^ε</i> | "reservoir, dam" | pl <i>mù'àa</i> or <i>mù'adà</i> |

A derivational change **rg* → *dg* appears in

| | | | |
|--------------------------|------------------------------|---------------------------|-------------------|
| <i>lō</i> | "tie" (Mooré <i>lóa</i>) | <i>lōdīg^{ε/}</i> | "untie" |
| <i>pō</i> | "divide" (Mooré <i>púi</i>) | <i>pōdīg^{ε/}</i> | "divide" |
| <i>bòì</i> | "get lost" (Toende) | <i>bòdīg^ε</i> | "lose, get lost": |
| <i>yāar^{ε/}</i> | "scatter" | <i>yādīg^{ε/}</i> | "scatter" |

*CVw roots become glottalised before derivational **g* and **s*, probably reflecting another historical consonant cluster change; thus *yè* "dress oneself", *yèeg^ε* "undress oneself", *dì* "eat", *dìus^ε* "feed", but

| | | | |
|--------------------------|-----------------|---------------------------|-----------------------|
| <i>kò</i> | "break" intrans | <i>kò'og^ε</i> | "break" trans/intrans |
| <i>pò'od^a</i> | "be few" | <i>pò'og^ε</i> | "diminish" |
| <i>vōe^{ya/}</i> | "be alive" | <i>vō'og^{ε/}</i> | "make, come alive" |

| | | | |
|---------------------------|--------------------------|---------------------------|-----------------------|
| <i>vɔpa</i> | "live things" (Farefare) | <i>vɔ'vɔs^ε</i> | "breathe, rest" |
| <i>kòɔlɔŋ^ɔ</i> | "broken" | <i>kò'ɔs^ε</i> | "break several times" |
| <i>tòñ</i> | "shoot" | <i>tòñ'ɔs^ε</i> | "hunt" |

Other sporadic *CVV~CVC* alternations are also probably relics of root-final consonant lenitions and deletions. *CVw~CVb* alternations appear in

| | | | |
|--------------------------|--------------------------------|--------------|--------------------|
| <i>nɔ</i> | "tread" (Mooré <i>nao</i>) | <i>nɔbá</i> | "feet" |
| <i>sɔɔñr^ε</i> | "liver" (Mooré <i>sãoore</i>) | <i>sɔbri</i> | "liver" (Mampruli) |

Apparent *CVV~CVg* alternations appear in *wìid^a* "draw water" ipfv beside *wìk^ε* pfv (← **wiggì*) and *vī'* "uproot", *vīk^ε/id* (← **viggì*).

Some *CVC* roots have *CVVC* allomorphs. Alternation may appear in derivation:

| | | | |
|----------------------------|-------------|--------------------------|-------------|
| <i>t̄v̄mā</i> | "work" noun | <i>t̄v̄m^m</i> | "work" verb |
| <i>yéon</i> | "one" | <i>yīun^ɔ</i> | "single" |
| <i>kāal^ε</i> | "count" | <i>kāl^{lε}</i> | "number" |
| <i>t̄v̄lóg^ɔ</i> | "hot" | <i>t̄vl^{la}</i> | "be hot" |

CVC is invariable before derivational suffixes other than *-līm-* "-ness" and the *-y-* of stative verbs; thus *sáannim^m* "strangerhood", *kpī'əm^{ma}* "be strong", but

| | | | |
|----------------------------|----------------------|---------------------------|--------------------|
| <i>màal^ε</i> | "sacrifice" (verb) | <i>mālōŋ^ɔ</i> | "sacrifice" (noun) |
| <i>pìə̀lìg^a</i> | "white" | <i>pè̀lìg^ε</i> | "whiten" |
| <i>kpī'on^ɔ</i> | "strong" | <i>kpè'ŋ^ε</i> | "strengthen" |
| <i>lìə̀b^ε</i> | "become" | <i>lè̀bìg^ε</i> | "turn over" |
| <i>t̄v̄lóg^ɔ</i> | "hot" | <i>t̄vlīg^ε</i> | "heat" |
| <i>yāar^ε</i> | "scatter" | <i>yādīg^ε</i> | "scatter" |
| <i>dēēŋ^a</i> | "first" | <i>dèēŋ^ε</i> | "go first" |
| <i>pìə̀b^ε</i> | "blow" (flute) | <i>pè̀bìs^ε</i> | "blow" (wind) |
| <i>yùul^ε</i> | "swing" intransitive | <i>yù̀lìg^ε</i> | "swing" transitive |

Alternation appears in flexion in a few nouns:

| | | | |
|--|---------------|--------------------------------|---------|
| <i>zìŋ^a</i> (← * <i>ziimga</i>) | <i>zīmí</i> | <i>zīm-</i> | "fish" |
| <i>náaf^ɔ</i> (← * <i>naagfv</i>) | <i>nīgí</i> | <i>nā'-</i> (← * <i>nag-</i>) | "cow" |
| <i>wáaf^ɔ</i> (← * <i>waagfv</i>) | <i>wīgí</i> | <i>wā'-</i> (← * <i>wag-</i>) | "snake" |
| <i>pīim^m</i> | <i>pīmá</i> | | "arrow" |
| <i>ỳv̀m^{mε}</i> | <i>ỳv̀mà</i> | | "year" |

3.5 Consonant clusters

The changes described below precede deletion of postvocalic **g*.

Except after prefixes, adjacent consonants within a word must assimilate to *kk pp tt ηη mm nn ll mn* or insert an epenthetic vowel, as shown below; *ə* marks pairs which insert an epenthetic vowel.

| 1↓ 2→ | <i>g</i> | <i>d</i> | <i>b</i> | <i>m</i> | <i>n</i> | <i>r</i> | <i>s</i> | <i>l</i> | <i>f</i> | <i>y</i> |
|----------|-----------|-----------|-----------|---------------|----------|-----------|---------------|-----------|-----------|-----------|
| <i>g</i> | <i>kk</i> | <i>ə</i> | <i>ə</i> | <i>ə</i> | <i>ə</i> | <i>ə</i> | <i>ə</i> | <i>ə</i> | | <i>ə</i> |
| <i>d</i> | <i>ə</i> | <i>tt</i> | <i>ə</i> | <i>ə</i> | | <i>ə</i> | <i>ə</i> | | | <i>r</i> |
| <i>b</i> | <i>ə</i> | <i>ə</i> | <i>pp</i> | [<i>mm</i>] | <i>ə</i> | <i>ə</i> | <i>ə</i> | <i>ə</i> | | <i>ə</i> |
| <i>m</i> | <i>ηη</i> | <i>mn</i> | <i>mm</i> | <i>mm</i> | | <i>mn</i> | [<i>:s</i>] | <i>nn</i> | | <i>mm</i> |
| <i>n</i> | <i>ηη</i> | <i>nn</i> | <i>mm</i> | <i>ə</i> | | <i>nn</i> | <i>~s</i> | <i>nn</i> | <i>~f</i> | <i>nn</i> |
| <i>r</i> | <i>ə</i> | <i>ə</i> | <i>ə</i> | <i>ə</i> | | <i>r</i> | <i>ə</i> | <i>tt</i> | <i>ə</i> | |
| <i>s</i> | <i>ə</i> | <i>ə</i> | <i>ə</i> | <i>ə</i> | | <i>ə</i> | <i>ə</i> | | | <i>s</i> |
| <i>l</i> | <i>ə</i> | <i>nn</i> | <i>ə</i> | <i>ə</i> | | <i>ll</i> | <i>ə</i> | <i>ll</i> | <i>ə</i> | <i>ll</i> |

The change *bm* → *mm* only occurs after a short root vowel, whereas *ms* → *~s* never occurs after a short root vowel, and is optional elsewhere.

**ns*, and **ms* when it assimilates, become *s* with nasalisation of a preceding root vowel, and lengthening of a preceding short root vowel:

| | | | | |
|-------------------------|--------|----|--------------------------|--------------------|
| <i>tēŋ^a</i> | "land" | pl | <i>tēŋs^ε</i> | ← * <i>tensɪ</i> |
| <i>kòlŋ^a</i> | "door" | pl | <i>kòlìs^ε</i> | ← * <i>kolinsɪ</i> |

For the pl *bōtìs^ε* of *bōtīŋ^a* "cup" see 2.3.

**nf* becomes *f* with nasalisation of a preceding root vowel, but there is no lengthening of a short preceding root vowel in the only case which occurs:

| | | | |
|--------------------------|---------|----|--------------|
| <i>nīf^o</i> | "eye" | pl | <i>nīnì</i> |
| <i>píuñf^o</i> | "genet" | pl | <i>pīunì</i> |

**ss* only inserts an epenthetic vowel in the pl *pūsīs^{ε/}* of *pūsīg^{a/}* "tamarind." All other plurals in *-sɪs^ε* in my materials are for **-sɪnsɪ*. **Pūs^{ε/}* would have appeared to show no ending in SF.

The cluster *mn* is unstable. All informants have *mm* in the LFs of dual-aspect verb ipfvs like *kàrìmmà* "read", but a few examples of the original *mn* occur in NT:

ka ba li' ba toba ka pu wum na [sic 3.1]

kà bà lí bà tòbà kà p̄ wóm̄nā=∅.

And 3PL block 3PL ear:PL and NEG.IND hear:IMPF=NEG.

"they have blocked their ears and do not hear" (Mt 13:15, 1996)

Informants differ with regard to the LF sg forms of *re|aa* class *m*-stems; thus SB has *gbīgīmnē* "lion", *dūmnē* "knee" whereas WK has *gbīgīmmē*, *dūmmē*.

The LF sg forms of agent nouns of *m*-stem verbs also vary:

m naan ku aan Kiristo tumtum na [sic].

ṁ nāan kú āa=n Kiristo t̄m-t̄mnā=∅.

1SG then NEG.IRR COP=DP Christ worker:SG=NEG.

"I would not have been Christ's servant." (Gal 1:10, 1996; KB *tvmtvmma*)

Agent noun plurals usually show *mn*, as in *t̄m-t̄mnīb* "servants", but habitual adjectives from *m*-stem verbs show *mm* before epenthetic vowels: *b̄n-t̄umm̄r* "useful thing" (pl *t̄mnā* for some), *b̄-sāñ'amm̄r* "goat for destruction" WK.

All *mna* and *mne* in KB cross word division by the criteria of this grammar, but *mni* is usual in plurals like *tvmtvmnib* *t̄m-t̄mnīb* "servants."

Derivation precedes flexion in consonant cluster formation.

Stem-final *kk pp tt ŋj mn nn* never assimilate further; *mm* assimilates only with *mmm* → *mm* in imperatives. Thus e.g. *kōt^ε* "slaughter", ipfv *kōt̄id^a*; *d̄am^m* "shake", ipfv *d̄amm̄id^a* ipfv, gerund *d̄amm̄òg^o* but imperative *d̄am^{ma}*.

However, stem-final *ll r(r)* assimilate the initial of the noun class suffix *-re: k̄òg-d̄ēl^ε* "chair for leaning on." This assimilation has led to the sg SF forms of agent nouns from single-aspect verbs in *ll r(r)* being reinterpreted as *re|aa* class 5.3.1.

Stem-internal *nn* and *mm* become single *n* and *m* after after epenthetic vowels and long root vowels. *P̄īb̄īn^{nε}* pl *p̄īb̄īnā* "covering" has single *-n-* for my informants, but the Mooré cognate has *-nd-*: *p̄īb̄īndgà* "lid, cover." The Mooré equivalent of the assume-stance derivational suffix *-n-* 9.1.1 is *-nd-*: *z̄īndi* = *z̄īñ'in^ε* "sit down"; *vábende* = *vábìn^ε* "lie prone"; *tàbende* "get stuck to" cf Kusaal *tàb^ε id*. The corresponding Nawdm suffix is *-nt-*: *jehra* ipfv = *z̄ī'e^{ya}* "be standing, *jehnt* pfv = *z̄ī'ən^ε* "stand up." Simplification of *mm* to single *m* appears in single-aspect verbs 9.1.2.1.

In verb flexion and gerund formation *single m n* may be followed by unexpected epenthesis as a strategy to avoid ambiguous SFs.

Regular *n*-stem verbs never assimilate **nm* in imperatives. They always assimilate **nd* → *nn* in the ipfv after short root vowels, but nowhere else; this may reflect the origin of derivational *n* from **nn*.

| | | | |
|--------------------------|----------------------------|----------------------------|---------------|
| <i>bùn^ε</i> | <i>bùn^{na}</i> | <i>bùnì^ma</i> | "reap" |
| <i>dìgìn^ε</i> | <i>dìgìnìd^a</i> | <i>dìgìnì^ma</i> | "lie down" |
| <i>gò'ɔn^ε</i> | <i>gò'ɔnìd^a</i> | <i>gò'ɔnì^ma</i> | "extend neck" |

N-stem gerunds never show assimilation: *būnīb^ɔ*, *dìgìnòg^ɔ*.

M-stems always assimilate in the imperative. They regularly assimilate in the ipfv whenever an epenthetic vowel would have been left in a superlight syllable in the LF, although NT/KB occasionally has unassimilated forms to avoid ambiguity:

| | | | |
|------------------------|-------------------------|-------------------------|--------|
| <i>wòm^m</i> | <i>wòm^{ma}</i> | <i>wòm^{ma}</i> | "hear" |
|------------------------|-------------------------|-------------------------|--------|

but *ka nan kpɛn wɔmid ye m bæ li pɔvɔgin nannanna la.*

kà nán kpɛ̀n wòmìd yé m bæ_̀ lì pɔ̀vɔgɔ̀=n nānná-nā lā.

and still still hear:IPFV that 1SG EXIST 3IN inside:SG=LOC now ART.

"and are still hearing that I am in it now." (Phil 1:30)

When an epenthetic vowel would not be in a superlight syllable in the LF of gerunds or imperfectives, either assimilation or epenthesis is possible:

| | | | |
|--------------------------|---|---------------------------|----------|
| <i>tɔɔm^{m/}</i> | <i>tɔɔm^{ma}/tɔɔmíd^a</i> | <i>tòɔm^{ma}</i> | "depart" |
| <i>kàrìm^m</i> | <i>kàrìm^{ma}/kàrìmìd^a</i> | <i>kàrìm^{ma}</i> | "read" |

The corresponding gerunds are *tɔɔɔ^ɔ/tɔɔmúg^ɔ* and *kàròɔ^ɔ/kàrì^mòg^ɔ*.

Epenthesis is clearly motivated by the avoidance of ambiguity for WK and DK, who use assimilated forms exclusively as LFs and before the focus particle *nē[/]*:

| | |
|----------------------------------|--------------------------|
| <i>Ṁ p̄ kárìmmā.</i> | "I'm not reading." |
| <i>Ṁ kárì^m nē.</i> | "I'm reading." |
| <i>Kà bà kárì^mìd.</i> | "And they were reading." |
| <i>Kà bà kárì^m.</i> | only "And they read." |

Examples for assimilation versus epenthetic vowel insertion:

| | | | |
|-------------------------|---|--------------|------------------------------|
| * <i>gg</i> → <i>kk</i> | <i>gìk^a</i> | "dumb" sg | <i>gìgìs^ε</i> pl |
| | cf <i>kɔ̀līg^a</i> | "river" sg | <i>kɔ̀līs^ε</i> pl |
| * <i>dd</i> → <i>tt</i> | <i>bùt^a</i> | "plant" ipfv | <i>bùd^ε</i> pfv |
| | cf <i>dūgū^da[/]</i> | "cook" ipfv | <i>dūg^ε</i> pfv |

| | | | | |
|----------|-------------------------|------------------------|-----------------------|-------------------|
| *bb → pp | sōp ^{o/} | "writing" ger | sōb ^ε | pfv |
| | cf kpārīb ^o | "locking" ger | kpār ^ε | pfv |
| *ld → nn | kòñ ^{ne} | "bags" pl | kòlòg ^o | sg |
| | cf zūəbíd ^ε | "hairs" pl | zūəbúg ^o | sg |
| *mg → ηη | bùη ^a | "donkey" sg | bùmìs ^ε | pl |
| *ng → ηη | gbàùη ^o | "book" sg | gbànà | pl |
| | cf ñwādīg ^{a/} | "month" sg | ñwādīs ^{ε/} | pl |
| *nr → nn | tān ^{ne} | "earth" sg | tānā | pl |
| *mr → mn | dūm ^{ne} | "knee" sg | dūmā | pl |
| *lr → ll | gél ^{le} | "egg" sg | gēlá | pl |
| *rr → r | kòkpàr ^ε | "palm fruit" sg | kòkpàrà | pl |
| | cf dīgìr ^ε | "dwarf" sg | dīgà | pl |
| *nb → mm | sám ^{ma} | "strangers" pl | sāan ^{a/} | sg |
| | cf nīdīb ^{a/} | "people" pl | nīd ^{a/} | sg |
| *mb → mm | kīm ^{mo} | "shepherding" ger | kìm ^m | pfv |
| | cf kādīb ^o | "driving off" ger | kād ^ε | pfv |
| *ll → ll | Bùl ^{le} | "Buli" | Bùlìs ^ε | "Bulsa" |
| *rl → tt | Bāt ^{ε/} | "Bisa language" | Bārīs ^{ε/} | "Bisa people" |
| *ml → nn | Dàgbān ^{ne/} | "Dagbani" | Dàgbām ^{ma/} | "Dagomba" |
| *nl → nn | Gōrín ^{ne} | "Farefare language" | Gōrís ^ε | "Farefare people" |

3.6 Vowel changes before *-ya *-gu *-kku *-ηηυ

The changes described below apply after consonant-cluster assimilation/epenthetic-vowel insertion and before deletion of *g after vowels.

When -y- would become syllable-closing after a short back vowel as a result of apocope, it is changed to *ɛ*, producing a short fronting diphthong:

| | | | | | |
|----------------|-----------------|------------|----------------|-----------------|-------------|
| SF <i>vōɛ</i> | LF <i>vōyá</i> | "be alive" | SF <i>tōɛ</i> | LF <i>tōyá</i> | "be bitter" |
| SF <i>sāɛñ</i> | LF <i>sāñyā</i> | "smith" | SF <i>sōɛñ</i> | LF <i>sōñyā</i> | "witch" |

Vowels are subject to fronting in the LF before *y* and to rounding before a following rounded vowel if a velar intervenes; these changes *remain* in the SF.

Before LF *y*, long vowels undergo fronting of a back second mora to *e* [I]:

| | | |
|----------------------------|-----------|--|
| <i>sōñ'e^{ya/}</i> | ← *sō'ñya | "be better than" |
| <i>sō'e^{ya/}</i> | ← *sō'vyā | "own" (cf <i>sō'vlím^m</i> "property") |

Short unrounded root vowels become diphthongs in *ɥ* before LF *ηηυ *kku:

| | | | |
|---------------------------|------------------|--------------|------------------------------|
| <i>gbàṽṽ</i> ^o | ← * <i>gbaṽṽ</i> | "book" | pl <i>gbàṽà</i> |
| <i>lāṽk</i> ^o | ← * <i>lakkv</i> | "goods item" | pl <i>lā'ad</i> ^ε |
| <i>yīṽṽ</i> ^{o/} | ← * <i>yīṽṽ</i> | "single" | pl <i>yīṽá</i> |

Short tense *i* does not diphthongise in *nīn-gbīṽ*^{o/} "body."

Short *ia* becomes *iaṽ*, but short *ua* becomes *ɔ*: **uakkv* → *ɔkkv*

| | | | |
|----------------------------|-------------------|------------|--------------------------------|
| <i>bīāṽṽk</i> ^o | ← * <i>bīākkv</i> | "shoulder" | pl <i>bīāṽ'ad</i> ^ε |
| <i>bòk</i> ^o | ← * <i>buaṽṽ</i> | "pit" | pl <i>bò'ad</i> ^ε |

Unrounded second morae of long vowels become [ɔ] before LF **gv* **ṽṽ*:

| | | | |
|-----------------------------|-------------------|---------|--------------------------------|
| <i>dāvṽ</i> ^o | ← * <i>daagv</i> | "log" | pl <i>dàad</i> ^ε |
| <i>fēṽ'og</i> ^{o/} | ← * <i>fē'ēgv</i> | "ulcer" | pl <i>fēṽ'ed</i> ^{ε/} |

Long *ii* becomes *iu*, whereas *iə* becomes *io* [iɔ]:

| | | | |
|-------------------------------|--------------------|----------|-------------------------------|
| but <i>vīṽṽ</i> ^{o/} | ← * <i>viigv</i> | "owl" | pl <i>vīid</i> ^{ε/} |
| <i>dàbīog</i> ^o | ← * <i>dabiəgv</i> | "coward" | pl <i>dàbīəd</i> ^ε |
| <i>kṽṽ'og</i> ^o | ← * <i>kṽṽ'əṽṽ</i> | "strong" | pl <i>kṽṽ'əmā</i> |

No case with *uu/uv* occurs, because of the rule **uəgv* → *ɔəgv*:

| | | |
|--------------------------------|-----------------------|--|
| <i>Sà'dàbòəgv</i> ^o | ← * <i>Sa'dabuəgv</i> | "place of the Sarabose <i>Sà'dàbùes</i> ^ε clan" |
| <i>lām-fòəgv</i> ^o | ← * <i>lam-fuəgv</i> | "toothless" (<i>lām</i> ^{mε/} "gum", <i>fùe</i> "extract") |

Pl vowels are remodelled on the sg: *lām-fòəd*^ε "toothless." The only stem with final *uə* in the *gɔ|dε* class is formally-plural *zùəd*^ε "friendship." There is probably a parallel rule **iəgv* → *ɛvṽ*, with similar pl remodelling: with *bī'əm*^m "enemy" cf

| | | | |
|---------------------------|---------------------------|---------------|-------|
| <i>bē'og</i> ^o | <i>bē'ed</i> ^ε | <i>bè'-</i> | "bad" |
| <i>bī'a</i> | <i>bī'əs</i> ^ε | <i>bī'à'-</i> | |

Dàbīog^o is perhaps influenced by an obsolete **dàbīəm*^m "coward" (Mooré *ràbéemà*.)

The **epenthetic vowel** *i* is rounded to *ɔ* before LF **gv* **ṽṽ*:

| | | |
|-------------------------------|--------------------|-------------------------|
| but <i>āāṽṽṽ</i> ^a | ← * <i>āāṽṽṽ</i> | "black plum tree" |
| pl <i>gàadṽṽ</i> ^o | ← * <i>gaadṽṽ</i> | "(sur)passing" (gerund) |
| but <i>mālīmā</i> | ← * <i>malīmaa</i> | "sacrifices" |
| but <i>mālṽṽ</i> ^o | ← * <i>malīṽṽ</i> | "sacrifice" |

3.7 Consonant deletion and vowel fusion

The changes described below apply after diphthongisation by fronting and rounding but before apocope. They are late historically: Haaf 1967 still has e.g. *baga* for *bā'a* "diviner" (Prost 1979 *baxa*) and *winbagr* for *wīn-bâ'ar* "altar"; Toende Kusaal has different deletion rules from Agolle, and no fusion.

***g is deleted after a ia ua** and their nasalised counterparts before any vowel, affix or epenthetic; fusion then results in glottalised long vowels and diphthongs:

**agV* → *a'a* **iagV* → *ia'a* **uagV* → *u'a*

v'a becomes *u'aa* word-finally. The rule applies later than **gg* → *kk* 3.5; thus

| | | | | |
|-----|---------------------------|------------------|-----------------|--------------------------------|
| but | <i>pṽ'ā^a</i> | ← <i>*pṽaga</i> | "woman" | pl <i>pṽ'ab^a</i> |
| | <i>zàk^a</i> | ← <i>*zakka</i> | "compound" | pl <i>zà'as^ε</i> |
| | <i>lāy^ɔ</i> | ← <i>*lakkv</i> | "item of goods" | pl <i>lā'ad^ε</i> |
| | <i>pṽ'āñk^ɔ</i> | ← <i>*pṽākkv</i> | "word" | pl <i>pṽ'āñ'ad^ε</i> |
| | <i>pṽ'āk^a</i> | ← <i>*pṽakkv</i> | "female" (adj) | pl <i>pṽ'as^ε</i> |
| | <i>bòk^ɔ</i> | ← <i>*buakkv</i> | "pit" | pl <i>bò'ad^ε</i> |

***g is deleted after aa iə uə** and their glottalised counterparts (but not after *av εo io ɔɔ* resulting from rounding before **gv*.) When an affix vowel follows the **g*, fusion creates overlong diphthongs:

**aaga* → *aa* 4.1 **iəga* → *iaa* **uəga* → *uaa*
**aagi* → *aee* **iəgi* → *iee* **uəgi* → *uee*

Glottalised vowels behave in the same way.

Thus with deletion of the **g* in *ga|sε* class singulars:

| | | | |
|--------------|-------------------|---------|------------------------------|
| <i>bāa</i> | ← <i>*baaga</i> | "dog" | pl <i>bāas^ε</i> |
| <i>sīa</i> | ← <i>*siəga</i> | "waist" | pl <i>sīəs^ε</i> |
| <i>sàbùa</i> | ← <i>*sabuəga</i> | "lover" | pl <i>sàbùəs^ε</i> |

So too with dual-aspect "fusion verbs" in **gi*:

| | | |
|--------------|-------------------|--|
| <i>pāe'</i> | ← <i>*paagi</i> | "reach" |
| <i>kpì'e</i> | ← <i>*kpi'əgi</i> | "approach" cf <i>kpì'əs^ε</i> "neighbours" |
| <i>dūe'</i> | ← <i>*duəgi</i> | "raise, rise" |

Original open **ɛ̃* **ɔ̃*, which elsewhere fall together with the reflexes of former close **ɛ̄* **ɔ̄* as *ɛɛ̃ ɔɔ̃* 2.2, undergo breaking before **g*. Alternations thus arise:

| | | | |
|---------------|-----------------------------|----------------------------|--|
| <i>zìṅ'a</i> | "red" <i>ga sɛ</i> class sg | <i>zèṅ'ɛs^ɛ</i> | "red" <i>ga sɛ</i> class pl |
| | | <i>zèṅ'og^ɔ</i> | "red" <i>gɔ dɛ</i> class sg <u>3.6</u> |
| <i>dùañ</i> | "dawadawa" sg | <i>dòṅs^ɛ</i> | "dawadawa" pl |
| <i>Mùà</i> | "Mossi person" | <i>Mòos^ɛ</i> | "Mossi people" |
| | | <i>Mòog^ɔ</i> | "Mossi country" |
| <i>nìe</i> | "appear" | <i>nèɛl^ɛ</i> | "reveal" |
| <i>ṅyū'e/</i> | "set alight" | <i>ṅyō'os^{ɛ/}</i> | "smoke" (noun) |
| <i>sūeñ/</i> | "anoint" | <i>sōñ</i> | "rub" |
| <i>sūñ'e/</i> | "become better" WK | <i>sōñ'e^{ya/}</i> | "be better than" (← * <i>sō'ōya</i>) |

When *aa aañ iə uə* precede a **g* which is *not* followed by an affix vowel, the only trace of **g* is the disturbance of toneme allocation in Tone Pattern H 3.8.1.

| | | |
|--------------------------|--------------------|---|
| <i>náaf^ɔ</i> | ← * <i>naagfv</i> | "cow" pl <i>nīgí</i> |
| <i>dí'ər^ɛ</i> | ← * <i>dī'əgrɪ</i> | gerund of <i>dī'e/</i> "receive" ← * <i>dī'əgrɪ</i> |
| <i>vúər^ɛ</i> | ← * <i>vuəgrɪ</i> | "fruit of red kapok" |

However, *ɛɛ̃ ɔɔ̃* are broken to *iəñ uəñ*:

| | | |
|-----|----------------------------|--|
| | <i>nèɛr^ɛ</i> | "empty" (← "clear") |
| but | <i>nìər^ɛ</i> | ← * <i>nīṅgrɪ</i> gerund of <i>nìe</i> "appear" |
| | <i>pōñ'ɔl^{ɛ/}</i> | "cause to rot" |
| but | <i>púñ'ər^ɛ</i> | ← * <i>pū'əgrɪ</i> gerund of <i>pūñ'e/</i> "rot" |

Tones show that the imperfective of fusion verbs has no underlying **g*, and older forms in texts reflect this by keeping *ɛɛ̃ ɔɔ̃*, e.g. *pon'od* from *pūñ'e/*. Later texts, and all my informants, consistently introduce *iəñ uəñ* into imperfectives and imperatives by analogy: *pun'od pūñ'əd^{al}*.

3.8 Tone Patterns

The distribution of tonemes on an open-class word, prior to any effects of external tone sandhi or tone overlay, is specified by a **Tone Pattern**, a suprasegmental feature of the word *stem* which allocates individual tonemes to all tone-bearing units of each complete word belonging to the flexional paradigm, with the precise instantiation changing as the segmental form changes. Nominals show only three basic distinct Patterns (H, L and A), and verbs only two (H and A.)

| | | | |
|-----------|--|-------------------|----------------------|
| Pattern H | initial H or MH | | |
| Pattern L | all-L (but with non-initial H in longer <i>m</i> -stems) | | |
| Pattern A | (for "alternating") | | |
| | nominals: | all-M in sg/pl | all-L in cb |
| | verbs: | all-M in irrealis | all-L in other moods |

Any tonemes after H are L. Superlight syllables 2.3 are always toneless.

Allocation precedes all synchronic rules which delete segments, including apocope. Superlight LF syllables which become closed as a result of apocope must acquire a toneme, which is M after a preceding M syllable, and L otherwise:

| | | | |
|----------------------------|------------|------------------|-----------------|
| <i>wābōg</i> ^{o/} | "elephant" | LF <i>wābugó</i> | SF <i>wābōg</i> |
| <i>dìgìr</i> ^ε | "dwarf" | LF <i>dìgìrè</i> | SF <i>dìgìr</i> |
| <i>nóbìr</i> ^ε | "foot" | LF <i>nóbìrè</i> | SF <i>nóbìr</i> |

A single flexional paradigm only shows more than one Tone Pattern in the case of agent nouns which drop derivational *-d-* in the sg and cb.

Analogous Patterns appear throughout Western Oti-Volta, with Pattern A alternating all-H/all-L. Pattern A has been taken as tonally unmarked, realised all-L by default but changed to all-H either by copying of a suffix H toneme (Akanlig-Pare and Kenstowicz 2002) or when a form is stressed (Olawsky 1999, Anttila and Bodomo 1996.) However, stressed verb forms are often all-L, and the Kusaal evidence also supports tone-copying: unlike almost all other open-class words, all-L Pattern A forms are not followed by M spreading and show L before liaison, apart from verb imperfectives, which probably originated as Pattern L derivatives. Derivational suffixes may change Pattern A forms to Pattern L and *vice versa*, which is difficult to reconcile with an analysis of Pattern A as intrinsically toneless; it may simply be intrinsically all-L, whereas Pattern L has an underlying non-initial M toneme usually deleted by internal tone sandhi but responsible for the H seen in longer *m*-stems.

For descriptive purposes it is sufficient simply to show Tone Patterns in terms of the resulting surface toneme distributions, and to classify derivational suffixes by the Patterns they produce; this is the approach adopted below.

3.8.1 Nouns and adjectives

Examples will be given as sg, pl, cb 5.1. Cbs are always affected by apocope.

Noun prefixes 10 are ignored in counting stem syllables below. Prefixes are L or M: L prefixes do not affect the rest of the tone pattern, while M prefixes only affect cbs, which always have H/X after the prefix.

Cbs from CV-stems sometimes behave tonally like prefixes:

| | | | |
|--------------------------------|---------------------------------|------------------|----------------------|
| <i>p̄v-kp̄aad^{a/}</i> | <i>p̄v-kp̄aadíb^a</i> | <i>p̄v-kp̄á-</i> | "farmer" <u>10.1</u> |
| <i>zūg-kūgūr^{ε/}</i> | <i>zūg-kūgā</i> | <i>zūg-kúg-</i> | "pillow" <u>5.2</u> |
| <i>kā-wēnnīr^{ε/}</i> | <i>kā-wēnnā</i> | <i>kā-wén-</i> | "corn" |

Pattern H displays H on the first syllable if it is superheavy in the LF, but otherwise has the initial tonemes MH; the H toneme falls on the *third* syllable if the second is superlight in the LF. Any tonemes following H are L. Cbs are allocated tonemes as if the final syllable were open.

| | | | |
|-------------------------------|-------------------------------|------------------|-----------------------|
| <i>v̄v̄r^{ε/}</i> | <i>v̄v̄yá</i> | <i>v̄v̄r-</i> | "alive" |
| <i>ȳīr^{ε/}</i> | <i>ȳā'</i> | <i>ȳī-</i> | "house" |
| <i>fūug^{o/}</i> | <i>fūud^{ε/}</i> | <i>fū-</i> | "shirt, clothes" |
| <i>d̄v̄k^{o/}</i> | <i>d̄v̄gūd^{ε/}</i> | <i>d̄v̄g-</i> | "cooking pot" |
| <i>n̄īd^{a/}</i> | <i>n̄īdīb^{a/}</i> | <i>n̄īn-</i> | "person" |
| <i>kūgūr^{ε/}</i> | <i>kūgá</i> | <i>kūg-</i> | "stone" |
| <i>gōt^{a/}</i> | <i>gōtíb^a /tt/</i> | <i>gōt-</i> | "seer, prophet" |
| <i>sābílíg^a</i> | <i>sābílís^ε</i> | <i>sābīl-</i> | "black" |
| <i>sābíl^{lε}</i> | <i>sābílá</i> | | |
| <i>yōgúm^{mε}</i> | <i>yōgvmá</i> | <i>yōgōm-</i> | "camel" |
| <i>dī'əs^{a/}</i> | <i>dī'əsídīb^a</i> | <i>dī'əs-</i> | "receiver" |
| <i>sūgvríd^a</i> | <i>sūgvrídīb^a</i> | <i>sūgvríd-</i> | "forgiver, forbearer" |
| <i>k̄v'alíη^a</i> | <i>k̄v'alís^ε</i> | <i>k̄v'alíη-</i> | traditional smock |
| <i>sú'əη^a /ηη/</i> | <i>sū'əmís^ε</i> | <i>sū'əη-</i> | "rabbit" |
| <i>sāan^{a/}</i> | <i>sāam^{ma}</i> | <i>sāan-</i> | "stranger, guest" |
| <i>sāannìm^m</i> | | | "strangerhood" |

H appears on the last syllable of LFs ending in root vowels followed by *mm* or in overlong diphthongs, while the corresponding SFs have M toneme:

| | | | |
|--------------------------|----------------|-----------------|---------------|
| <i>nūa'</i> | SF <i>nūa</i> | LF <i>nūáa</i> | "hen" |
| <i>vōm^{m/}</i> | SF <i>vōm</i> | LF <i>vómm</i> | "life" |
| <i>dāam^{m/}</i> | SF <i>dāam</i> | LF <i>dáamm</i> | "millet beer" |

Loss of underlying segments may shift the H toneme to the left.

H may appear on a LF *superlight* syllable if it is preceded by *r* derived from **rr*:

ñyīrí^o *ñyīrí* "egusi seed"

Many words have a long root vowel followed by a segment which has been deleted by reduction of a consonant cluster to a single consonant 3.5 or by deletion of **g* 3.7. The first syllable still behaves as superheavy in the LF and carries H:

| | | | |
|--------------------------|--------------------|-------------------------------------|---|
| <i>nīis^ε</i> | ← * <i>niinsɪ</i> | (beside <i>nīimís^ε</i>) | "birds" (sg <i>nīiŋ^a</i> /ŋŋ/) |
| <i>píiñf^o</i> | ← * <i>pɪɪnfɔ</i> | (pl <i>pīiŋí</i>) | "genet" |
| <i>wáaf^o</i> | ← * <i>waagfɔ</i> | (pl <i>wīigí</i>) | "snake" |
| <i>yáab^a</i> | ← * <i>yaagba</i> | | "grandparent" |
| <i>vúθ^ε</i> | ← * <i>vuθgrɪ</i> | | "fruit of red kapok" |
| <i>náar^ε</i> | ← * <i>naagrɪ</i> | gerund of <i>nāe[/]</i> | "finishing" |
| <i>dī'θ^ε</i> | ← * <i>dī'θgrɪ</i> | gerund of <i>dī'e[/]</i> | "getting" |
| <i>púñ'θ^ε</i> | ← * <i>pũ'ðgrɪ</i> | gerund of <i>pũñ'e[/]</i> | "rotting" |

A few root-stems show a different irregularity: in sg/pl forms with consonant-initial flexions, the initial syllable carries X if it is superheavy *in the SF*, H otherwise; all following tonemes are L. Forms with vowel-initial suffixes and cbs are regular.

| | | | |
|----------------------------|----------------------------|---------------|------------------------|
| <i>nû'ug^o</i> | <i>nû'us^ε</i> | <i>nũ'-</i> | "hand, arm" |
| <i>à-gâvñg^o</i> | <i>à-gâañd^ε</i> | <i>à-gāñ-</i> | "pied crow" |
| <i>gbêñm^m</i> | | <i>gbēñ-</i> | "sleep" |
| <i>nóbìr^ε</i> | <i>nōbá</i> | <i>nōb-</i> | "foot, leg" |
| <i>gél^{lε}</i> | <i>gēlá</i> | <i>gēl-</i> | "egg" |
| <i>kīsùg^o</i> | <i>kīsá</i> | <i>kīs-</i> | "hateful, taboo" (adj) |
| <i>áñsìb^a</i> | <i>āñs-nám^a</i> | <i>āñs-</i> | "mother's brother" |

So too the gerunds *sóñsìg^a* "talking", *gósìg^a* "looking", *kìkírùg^o* "hurrying."

LFs corresponding to SFs with superheavy X syllables have open initial H syllables: *nû'ugò* "hand" is tonally identical to LF *wáafò* "snake."

Some of these words have probably lost a segment: *s r* can represent older *ss rr*, and cf Mooré *gãoobgó* "pied crow." *Nû'ug^o* "hand" has added further class suffixes to old *ɔ|ε* class forms: cf Nawdm *núhú* pl *níhí*. *Nóbìr^ε* "leg" is remodelled segmentally on the basis of the plural: cf Toende sg *nō'ōt* pl *nōba*.

Examples for Pattern H with prefixes:

| | | | |
|----------------------------|----------------------------|---------------|---------------|
| <i>dàyūug^o/</i> | <i>dàyūud^ε/</i> | <i>dàyū-</i> | "rat" |
| <i>Bùsáŋ^a</i> | <i>Bùsâañs^ε</i> | <i>Bùsāŋ-</i> | "Bisa person" |

| | | | |
|------------------------------|------------------------------|------------------|-----------------------------------|
| <i>zīnzāuŋ^{o/}</i> | <i>zīnzāná</i> | <i>zīnzáuŋ-</i> | "bat" |
| <i>gōmpōzēr^{ε/}</i> | <i>gōmpōzēyá</i> | <i>gōmpōzér-</i> | "duck" |
| <i>pīpīrīg^{a/}</i> | <i>pīpīrīs^{ε/}</i> | <i>pīpír-</i> | "desert" |
| <i>tīntōñrīg^a</i> | <i>tīntōñrīs^ε</i> | <i>tīntóñr-</i> | "mole" (<i>r</i> ← * <i>rr</i>) |

Pattern L shows L on all syllables, except with *m*-stems:

| | | | |
|----------------------------|------------------------------|---------------|---------------------|
| <i>sù'vǵ^a</i> | <i>sù'vs^ε</i> | <i>sù'-</i> | "knife" |
| <i>zàk^a</i> | <i>zà'as^ε</i> | <i>zà'-</i> | "dwelling-compound" |
| <i>mòlǵ^o</i> | <i>mòlì</i> | <i>mòl-</i> | "gazelle" |
| <i>pùgvdìb^a</i> | <i>pùgùd-nàm^a</i> | <i>pùgùd-</i> | "father's sister" |
| <i>sàal^a</i> | <i>sàalìb^a</i> | <i>sàal-</i> | "human" |
| <i>nòŋìd^a</i> | | | "lover" |
| <i>bòòdìm^m</i> | | | "will" |
| <i>zòtìm^m</i> | | | "fear" |
| <i>dàalìm^m</i> | | | "maleness" |

M-stems show H on the syllable before the *m* unless this is either a root syllable or follows a light root syllable. Any tonemes after H are L.

| | | | | |
|-----|--|--|-----------------|---------------------|
| | <i>sàam^{ma}</i> | <i>sàam-nàm^a</i> | <i>sàam-</i> | "father" |
| | <i>mèεŋ^a</i> | <i>mèεmìs^ε</i> | <i>mèεŋ-</i> | "turtle" |
| | <i>àñròŋ^o</i> | <i>àñrìmà</i> | <i>àñròŋ-</i> | "boat" |
| | <i>kàròŋ^o</i> or <i>kàrìmùg^o</i> | | | "reading" (gerund) |
| | <i>yàlòŋ^o</i> | <i>yàlìmà</i> | <i>yàlòŋ-</i> | "wide" |
| | <i>zìlìm^{me}</i> | <i>zìlìmà</i> | <i>zìlìm-</i> | "tongue" |
| But | <i>sìlìŋ^a</i> | <i>sìlìmìs^ε</i> or <i>sìlìs^ε</i> | <i>sìlìŋ-</i> | "proverb" |
| | <i>zàaňsùŋ^o</i> | <i>zàaňsìmà</i> | <i>zàaňsùŋ-</i> | "dream" |
| | <i>nòŋìlìm^m</i> | | <i>nòŋìlìm-</i> | "love" |
| | <i>sòŋìdí-m-tāa</i> | | | "co-helper" 9.2.1.4 |
| | <i>dàalìm^m</i> | <i>dàalìmìs^ε</i> | <i>dàalìm-</i> | "male sex organs" |
| | <i>bì'isìm^m</i> | | | "milk" |

Tonally exceptional forms are *bùgúm^m* cb *bùgúm-* or *bùgōm-* "fire", *tàdìmìs^ε* "weakness", *bùdìmìs^ε* "confusion."

Pattern L with prefixes:

| | | | |
|-----------------------------|-----------------------------|----------------|-------------|
| <i>kòkpàrìg^a</i> | <i>kòkpàrìs^ε</i> | <i>kòkpàr-</i> | "palm tree" |
| <i>sāmán^{ne}</i> | <i>sāmánà</i> | <i>sāmán-</i> | "courtyard" |

Pattern A shows M throughout in sg/pl forms and L throughout in the cb.

| | | | |
|----------------------------|-----------------------------|----------------|-------------------|
| <i>bōvɔg^a</i> | <i>bōvs^ε</i> | <i>bò-</i> | "goat" |
| <i>tān^{nε}</i> | <i>tānā</i> | <i>tàn-</i> | "earth" |
| <i>sīd^a</i> | <i>sīdīb^a</i> | <i>sìd-</i> | "husband" |
| <i>pɔ̃'ā^a</i> | <i>pō'ab^a</i> | <i>pɔ̃'à-</i> | "woman, wife" |
| <i>sā'ab^ɔ</i> | no pl | <i>sà'-</i> | "millet porridge" |
| <i>gbīgīm^{nε}</i> | <i>gbīgīmā</i> | <i>gbìgìm-</i> | "lion" |
| <i>ñwāaŋ^a</i> | <i>ñwāamīs^ε</i> | <i>ñwàaŋ-</i> | "monkey" |
| <i>mēed^a</i> | <i>mēedīb^a</i> | <i>mèed-</i> | "builder" |
| <i>sīākīd^a</i> | <i>sīākīdīb^a</i> | <i>sīàkìd-</i> | "believer" |
| <i>būtīŋ^a</i> | <i>būtīs^ε</i> | <i>bùtīŋ-</i> | "cup" |
| <i>mēedīŋ^a</i> | <i>mēedīs^ε</i> | <i>mèedīŋ-</i> | "building tool" |

When derived from Pattern A verbs, agent nouns which have *-d-* only in the plural have Pattern L sg and Pattern A pl (the cb is in any case all-L) 3.8.4:

| | | | |
|--------------------------|------------------------------|---------------|--------------|
| <i>pò'us^a</i> | <i>pō'usīdīb^a</i> | <i>pò'us-</i> | "worshipper" |
|--------------------------|------------------------------|---------------|--------------|

Pattern A all-M LFs become all-L before the interrogative clitics 4.1.

Certain Pattern A words show **LF-final H** instead of M before negative prosodic clitics, but not liaison words. For WK this occurs with LFs of more than two syllables not ending in a long vowel or *-a*, and disyllabic LFs in *-mmV* or *-mm*. Some speakers allow H optionally before the interrogative prosodic clitics.

| | | | |
|-----------------------------|------------------------------|------------------|---------------------|
| <i>yūgvdīr^{ε/}</i> | <i>yūgvdā</i> | <i>yùgvòd-</i> | "hedgehog" |
| <i>ñwāaŋ^a</i> | <i>ñwāamīs^{ε/}</i> | <i>ñwàaŋ-</i> | "monkey" |
| <i>bāŋīd^a</i> | <i>bāŋīdīb^{a/}</i> | <i>bàŋīd-</i> | "wise man" |
| <i>kpārīdīŋ^a</i> | <i>kpārīdīs^{ε/}</i> | <i>kpàrīdīŋ-</i> | "thing for locking" |
| <i>gbīgīm^{mε/}</i> | <i>gbīgīmā</i> | <i>gbìgìm-</i> | "lion" |
| <i>zōɔm^{mε/}</i> | <i>zōɔmā</i> | <i>zòɔm-</i> | "fugitive" |
| <i>tādīm^{m/}</i> | <i>tādīmīs^{ε/}</i> | <i>tàdìm-</i> | "weak person" |

Lì à nē gbīgīmméé?

"Is it a lion?" WK only; rejected by DK

Lì à nē gbígīmmèé?

"Is it a lion?" both WK and DK

Pattern A with prefixes:

| | | | |
|---------------------------|--------------------------|---------------|-----------------------|
| <i>dàkīŋ^a</i> | <i>dàkīs^ε</i> | <i>dàkì-</i> | "sib-in-law via wife" |
| <i>fūfūm^{mε}</i> | <i>fūfūmā</i> | <i>fūfúm-</i> | "envy; stye" |

3.8.2 Verbs

Pattern L has merged with A in verbs, probably through the regular falling together of most perfectives (which resemble nominal cbs structurally) and the *derivational* origin of the imperfective flexion 3.8.4. Further levelling has extended to all but a few gerunds.

Dual-aspect verbs have three finite forms 7.1 but the *ma*-imperative is found only with tone overlay 16.6.2. Perfective and imperfective will be cited below, in that order. Single-aspect verbs have just one finite form, which is imperfective.

Pattern H, as in nominals, displays H on the first syllable if it is superheavy in the LF, but otherwise shows the initial tonemes MH, with H falling on the *third* syllable if the second is superlight in the LF. Any tonemes following H are L. Unlike nominals, verbs show no anomalies due to deletion of segments.

2-mora-stem perfectives show M(M) before the negative clitic, becoming L(L) before interrogative clitics. However, they show final H before liaison-word pronouns:

| | |
|----------------------|----------------------|
| <i>Ò p̄ d̄ōgē.</i> | "She didn't cook." |
| <i>Ò p̄ d̄ógèè?</i> | "Didn't she cook?" |
| <i>Kà ò d̄ōgí lī</i> | "And she cooked it." |

Examples for Pattern H:

| | | |
|-------------------------------|--------------------------------|------------------------|
| <i>ñyē</i> | <i>ñyēt^{a/}</i> | "see" |
| <i>kū</i> | <i>kūvd^{a/}</i> | "kill" |
| <i>d̄ōg^ε</i> | <i>d̄ōgūd^{a/}</i> | "cook" |
| <i>kūl^ε</i> | <i>kūn^{na/}</i> | "go home" |
| <i>yādīg^{ε/}</i> | <i>yādīgíd^a</i> | "scatter" |
| <i>mōw^{ε/}</i> | <i>mówn^{na}</i> | "proclaim" |
| <i>dīgīl^{ε/}</i> | <i>dīgín^{na}</i> | "lay down" |
| <i>nōk^{ε/} /kk/</i> | <i>nōkíd^a /kk/</i> | "take" |
| <i>lāhīm^m /ηη/</i> | <i>lāhīm^{ma} /ηη/</i> | "wander searching" |
| | <i>vūē^{ya/}</i> | "be alive" |
| | <i>dīgī^{ya/}</i> | "be lying down" |
| | <i>tī^{ya/}</i> | "be leaning" (objects) |
| | <i>zāñ^{la/}</i> | "be holding" |

As with nominals, H appears on the last LF syllable when it ends in a root vowel before *-mm* or in an overlong diphthong, while the corresponding SF has M:

| | | | |
|--------------------------|----------------|----------------|-------------|
| <i>tōwm^{m/}</i> | SF <i>tōwm</i> | LF <i>tówm</i> | "disappear" |
| <i>pāē^l</i> | SF <i>pāē</i> | LF <i>pāée</i> | "reach" |

For the tonemes of stative verbs like *kpī'əm^{ma/}* "be strong" see [9.1.2.1](#).

Fusion verbs show no sign of **g* in the imperfective tonally, or in agent nouns:

| | | |
|---------------|----------------------------|----------|
| <i>pāe'</i> | <i>pāad^{a/}</i> | "reach" |
| <i>dī'e'</i> | <i>dī'əd^{a/}</i> | "get" |
| <i>pūñ'e'</i> | <i>pūñ'əd^{a/}</i> | "rot" WK |

Contrast the corresponding gerunds: *páar^ε dī'ər^ε púñ'ər^ε*.

Pattern A shows all tonemes L in indicative and imperative, all M in irrealis.

| | | |
|----------------------------|-----------------------------|------------------|
| <i>bòd^ε</i> | <i>bòt^a</i> | "plant" |
| <i>dì</i> | <i>dìt^a</i> | "eat" |
| <i>mè</i> | <i>mèəd^a</i> | "build" |
| <i>zàb^ε</i> | <i>zàbìd^a</i> | "fight, hurt" |
| <i>bùəl^ε</i> | <i>bùən^{na}</i> | "call" |
| <i>bòdìg^ε</i> | <i>bòdìgìd^a</i> | "get lost, lose" |
| <i>nìη^ε</i> | <i>nìηìd^a</i> | "do" |
| <i>màal^ε</i> | <i>màan^{na}</i> | "sacrifice" |
| <i>dìgìn^ε</i> | <i>dìgìnìd^a</i> | "lie down" |
| <i>wàηìm^m</i> | <i>wàηìm^{ma}</i> | "waste away" |
| <i>sìlìlìm^m</i> | <i>sìlìlìm^{ma}</i> | "cite proverbs" |
| <i>zàańsìm^m</i> | <i>zàańsìm^{ma}</i> | "dream" |
| | <i>tàbì^{ya}</i> | "be stuck to" |
| | <i>vèn^{na}</i> | "be beautiful" |

As with nominal Pattern A, the last LF toneme in the irrealis is M:

| | |
|--------------------------|--|
| <i>Ò kù zābē.</i> | "She won't fight." |
| <i>Ò kù bōdìgē.</i> | "He won't get lost." |
| <i>Ò nà bōdìgèε?</i> | "Will she get lost?" 4.1 |
| <i>Ò kù bōdìgìdā.</i> | "She won't be getting lost." |
| <i>Ò kù būēnnā.</i> | "She won't be calling." |
| <i>Ò kù bōdìgī má.</i> | "He will not lose me." |
| <i>Ò kù bōdìgìdī má.</i> | "He won't be losing me." |

The LF before the bound pronoun ^o can show final M or H (all WK):

| | |
|------------------------|-----------------------|
| <i>Ò kù zābó=o.</i> | "He won't fight him." |
| or <i>Ò kù zābō=o.</i> | "He won't fight him." |

3.8.3 Other word classes

Quantifiers, adverbs and particles with the segmental structure of nouns have similar tonal structures; they may also show apocope-blocking 3.2. For the tonemes of bound liaison words see 4.2. Left-bound particles with SF CV which are *not* liaison enclitics carry M or L; M changes to H in the LF CVV. Tonally unique is independent-perfective *yā* 16.6.2, which remains M before the negative prosodic clitic and becomes L before the interrogative clitics 4.1:

| | |
|----------------------|------------------------------------|
| <i>Lì bòdìg néé?</i> | "Is it lost?" (focus- <i>nḗ</i>) |
| <i>Lì bòdìg yàa?</i> | "Has it got lost?" |

3.8.4 Derivation

Root tone patterns can be deduced from the tone patterns of words with stems lacking any derivational suffix, and by comparing patterns in derived stems.

It is exceptional for forms derived from H roots to show L or A Patterns, or vice versa, but this does occur regularly in derivation of assume-stance verbs 9.1.1.

Gīñílím^m "shortness", from the Pattern A adjective *gīñ^a* "short", possibly represents a five-mora-stem Pattern A toneme allocation (but cf *gīñlím^m id.*)

Pattern H roots which show irregular tonemes in root-stem nominal forms are regular in all derived forms and in cognate verbs:

| | | | |
|--------------------------|------------------|--------------------------|------------------|
| <i>áñsìb^a</i> | "maternal uncle" | <i>āñsíñ^a</i> | "sister's child" |
| <i>kíśùg^o</i> | "hateful" | <i>kīś^{a/}</i> | "hate" |
| <i>gósìg^a</i> | "looking" | <i>gōś^ε</i> | "look" |

After L or A roots derivational suffixes differ in tonal behaviour, some producing Pattern L nominal stems and others Pattern A. The Pattern is determined by the *last* derivational suffix, unless this is **m* as a second suffix, or **y* as a formant of stative verbs. Pattern A roots can give rise to Pattern L, and *vice versa*:

| | | | |
|--------------------------|---------|---------------------------|-------------------|
| <i>bīig^a</i> | "child" | <i>bīilím^m</i> | "childhood" (-l-) |
| <i>nà'ab^a</i> | "chief" | <i>nā'am^m</i> | "chiefship" (-m-) |

When added to L or A roots the derivational suffixes *b g l s* always produce Pattern L nominals, while *d m* may produce either Pattern L or Pattern A. The suffix *n* may produce Pattern A when it is derived from **nd *ld* 3.5.

All regular gerunds have predictable Tone Patterns:

| | | |
|-----------------------|-------------------------------|-----------|
| from Pattern H verbs: | | Pattern H |
| from Pattern A verbs: | from 2-mora-stem perfectives: | Pattern A |
| | from all others: | Pattern L |

| | | | |
|-----------------------------|------------|---|-----------------------------|
| <i>dōg</i> ^ε | "cook" | → | <i>dōgōb</i> ^{ɔ/} |
| <i>nōk</i> ^{ε/} | "take" | → | <i>nōkír</i> ^ε |
| <i>dīgīl</i> ^{ε/} | "lay down" | → | <i>dīgílúg</i> ^ɔ |
| <i>mè</i> | "build" | → | <i>mēeb</i> ^ɔ |
| <i>sùŋ</i> ^ε | "help" | → | <i>sùŋír</i> ^ε |
| <i>dìgìn</i> ^ε | "lie down" | → | <i>dìgìnùg</i> ^ɔ |
| <i>zàańsìm</i> ^m | "dream" | → | <i>zàańsúb</i> ^ɔ |

Gerunds derived with **d* from Pattern A verbs are likewise Pattern L: *bòɔdìm*^m "will", *mèédím-tāa* "fellow-builder." This Pattern-L-deriving **d* is probably historically identifiable with the *d* preceding the original ipfv *-a* in dual-aspect verbs before extensive levelling produced a unitary flexional suffix *-da*. This accounts for the fact that Pattern L and A dynamic imperfectives have merged, and that they show behaviour resembling nominal Pattern L, with no change to all-M despite the fact that they are followed by M spreading and show final M tonemes before liaison.

In dynamic single-aspect verbs, the **y* of the ending *-ya* behaves tonally like dual-aspect **d*. Stative verbs derived with **y* keep the Tone Pattern of the nominal, but their Patterns have been reanalysed in terms of those of dynamic verbs.

Deverbal agent nouns, instrument nouns and deverbal adjectives also have predictable Tone Patterns:

| | | |
|-----------------------|------------------------------------|-----------|
| from Pattern H verbs | | Pattern H |
| from Pattern A verbs: | containing derivational <i>-d-</i> | Pattern A |
| | otherwise | Pattern L |

The suffix **d* in these formations is Pattern-A-deriving: *bōɔdír*^ε "desirable", *mēédīŋ*^a "building implement." Stems where this **d* is absent (not just assimilated into a cluster as *-mn-* or *-nn-*) are Pattern L, with a change of Tone Pattern possible even within a single noun paradigm.

4 External sandhi

External sandhi includes segmental contact phenomena, tone sandhi, and complete or partial suppression of apocope. Tone sandhi follows apocope and the tone overlay of independency marking [16.6.1](#). M dropping and the tone changes induced by interrogative prosodic clitics apply before other external tone sandhi rules, which then apply left to right.

Sandhi after right-bound words differs from that after unbound forms: *sàñ-kàṅā* "this blacksmith", *sāḡñ lā* "the blacksmith." Perfectives behave as if right-bound in tone sandhi and in final stop devoicing in Toende Kusaal [2.1](#), and verb forms monophthongise final fronting diphthongs phrase-internally like bound forms.

4.1 Prosodic clitics

Prosodic clitics have no segmental form, but cause a preceding word to appear as a Long Form, completely suppressing apocope. Mooré has clause-final *yé* after negative VPs, and vocative and interrogative clitics are common in West Africa; for clitic-like elements cross-linguistically which lack segmental form see Spencer and Luís 2012: 5.5.1 on Tongan "definitive accent." The concept of prosodic clitics as *words* is also useful in describing complex clause structures.

All four prosodic clitics cause lowering of short LF-final *ɪ ʊ* to *ɛ ɔ* respectively, which are realised slightly closer in this case than as root vowels.

Before prosodic clitics, and in forms with apocope-blocking, final *-mɪ* and *-mʊ* become *-mm* whenever the *m* is not geminated. The final *m* was presumably once syllabic, but currently *-mm* is non-tone-bearing [m:]. Word-final *iə uə* diphthongise to *ia ua* before prosodic clitics: pfv LF *k̄ià* "cut" vs ipfv *k̄iəd*, pfv LF *k̄ūa* "hoe" vs ipfv *k̄ūəd*. None of these changes occur before liaison.

Overlong monophthongs, unlike diphthongs, are not permitted before prosodic clitics; they reduce to long. This results in words which have segmentally or even tonally identical SF and LF, as for example:

| | | | | | |
|-----|----------------|----------------|----------------|--------------------|------------------|
| | <i>s̄ā</i> | "waist" | SF <i>s̄ā</i> | LF <i>s̄āā</i> | ← * <i>siəga</i> |
| but | <i>b̄ā</i> | "dog" | SF <i>b̄ā</i> | LF <i>b̄ā</i> | ← * <i>baaga</i> |
| | <i>k̄ō</i> + ° | "kill him/her" | SF <i>k̄úo</i> | LF <i>k̄úo[-o]</i> | both [k̄u:] |

The **negative prosodic clitic** appears at the end of a clause containing a negated or negative verb [16.5](#). Superscript notation represents LFs as they appear before the negative prosodic clitic segmentally, with lowering of short final *ɪ ʊ* to *ɛ ɔ*; long final *ɪ ʊ* are not lowered:

Lì k̄ā' nóbir̄=∅. "It's not a leg (*nóbir̄^ε*)."
3IN NEG.BE leg:SG=NEG.

Lì k̄ā' dōkó=∅. "It's not a pot (*dōk^{o/}*)."
3IN NEG.BE pot:SG=NEG.

Bà k̄ā' mólī=∅. "They are not gazelles (*mòlì*)."
3PL NEG.BE gazelle:PL=NEG.

LF-final L syllables are changed to M before the negative clitic:

| | | | |
|---------------------------|------------|------------------|-------------------|
| <i>mòlì</i> | "gazelles" | SF <i>mòlì</i> | LF <i>mòlī</i> |
| <i>yàarìm^m</i> | "salt" | SF <i>yàarìm</i> | LF <i>yàarīmm</i> |
| <i>tìum^m</i> | "medicine" | SF <i>tìum</i> | LF <i>tīumm</i> |

This applies later than external tone sandhi induced by preceding words:

| | | |
|-----|-------------------------|--|
| | <i>Lì k̄ā' ò tīumm.</i> | "It's not her medicine (<i>tìum^m</i>)." |
| but | <i>Lì k̄ā' tīumm.</i> | "It's not medicine." |
| | <i>Lì k̄ā' bà dā'a.</i> | "It's not their market (<i>dā'a</i>)." |
| but | <i>Lì k̄ā' dā'a.</i> | "It's not a market." |

Pattern H words written in superscript notation with a following acute mark / place the H on the last syllable of the LF, replacing any SF M toneme:

| | | | |
|----------------------------|--------------------|-------------------|--------------------|
| <i>fūug^{o/}</i> | "shirt, clothes" | SF <i>fūug</i> | LF <i>fūugó</i> |
| <i>pāe^l</i> | "reach" | SF <i>pāe</i> | LF <i>pāée</i> |
| <i>nūa^l</i> | "hen" | SF <i>nūa</i> | LF <i>nūáa</i> |
| <i>yā^l</i> | "houses" | SF <i>yā</i> | LF <i>yáa</i> |
| <i>bèdv̄gō^l</i> | "a lot" | SF <i>bèdv̄gō</i> | LF <i>bèdv̄góv</i> |
| <i>gāañ^l</i> | "Nigerian ebony" | SF <i>gāañ</i> | LF <i>gáañ</i> |
| <i>tāyñ^l</i> | "opposite-sex sib" | SF <i>tāyñ</i> | LF <i>táyñ</i> |
| <i>dāam^{m/}</i> | "millet beer" | SF <i>dāam</i> | LF <i>dáamm</i> |
| <i>vōm^{m/}</i> | "life" | SF <i>vōm</i> | LF <i>vómm</i> |

Before the SF of ^o "him/her", a Pattern H perfective ending in a root vowel has H toneme, but the overlong diphthong formed with the LF *o* carries MH:

| | | | |
|---------------------------|---------------|---------------------------|------------------|
| <i>ñyē + ^o</i> | "see him/her" | SF <i>ñyé^o</i> | LF <i>ñyēó=∅</i> |
|---------------------------|---------------|---------------------------|------------------|

LFs of the same form appear with some single-word clause adjuncts. KB consistently writes such adjuncts with final $\varepsilon \circ$ rather than $\iota \upsilon$.

bɔzugɔ ba zi' onɛ tɔmi m la naa.

bɔ́ zúgɔ́, bà zī' ɔ̀nì t̀m̀ì=m lā náa=∅.

because 3PL NEG.KNOW REL.AN send=1SG ART hither=NEG.

"Because they do not know him who sent me here." (Jn 15:21)

Bēogó f̀v̀ ná k̀l̄.

"You're going home tomorrow." SB

Tomorrow 2SG IRR go.home.

Occasional examples of such LFs are seen ending *yà'*-clauses:

Kikirig ya'a mor buude, fun tis o ka o lebig o moogin.

K̀ìk̀ìr̄ìg yá' m̄ɔr b̄v̄v̄dē, f̄v̄n t̄ìs̀=∅ k̀à ò l̀èb̀ìg ò m̄ɔḡv̄=n.

Fairy:SG if have innocence, 2SG.CNTR give=3AN and 3AN return 3AN grass:SG=LOC.

"When a fairy is right agree so that it will go back to the bush." KSS p38

(Give the devil his due.)

The **vocative prosodic clitic** ends a vocative clause. It has similar effects to the negative clitic, although the audio NT version sometimes shows a change of final M tone to falling (as with final-H vocatives for some Hausa speakers, Jaggar p18.)

Ḃ b̄ìs̄=∅!

"My children!"

1SG child:PL=VOC!

Pu'aa, bɔ ka f̀v̀ kaasida?

P̄ỳ'āa=∅, b́ k̀à f̀v̀ k̄āasídà=∅?

Woman:SG=VOC, what and 2SG cry:IPFV=CQ?

"Woman, why are you crying?" (Jn 20:13)

dau onɛ an yadda niɲida

d̄āȳ ɔ̀nì àñ ỳàddā-n̄ìɲìd̄ā=∅

man:SG REL.SG COP faith-doer:SG=VOC

"You man, who are a believer!" (1 Cor 7:16)

The two **interrogative prosodic clitics** end questions. Final vowel length distinctions are neutralised to short in content questions, long in polar questions. This results in a five-way $a \varepsilon \circ \iota \upsilon$ contrast in final vowels by quality alone:

| | |
|--|---|
| <i>Ànó'ònì</i> $_ \emptyset$ <i>ńyē nóbìrè=∅?</i> | "Who saw a leg (<i>nóbìr^ε</i>)?" |
| Who CAT see leg:SG=CQ? | |
| <i>Lì à nē nóbìrèε=∅?</i> | "Is it a leg?" |
| 3IN COP FOC leg:SG=PQ? | |
| <i>Ànó'ònì ńyē kúkà?</i> | "Who saw a chair (<i>kōk^a</i>)?" |
| <i>Ànó'ònì ńyē dōkó?</i> | "Who saw a pot (<i>dōk^{o/}</i>)?" |
| <i>Ànó'ònì ńyē mólì?</i> | "Who saw gazelles (<i>mólì</i>)?" |
| <i>Ànó'ònì ńyē bédvǔ?</i> | "Who saw a lot (<i>bédvǔ[/]</i>)?" |

Like many other West African languages, Kusaal signals questions with a final *falling* intonation. All questions end with a L or H toneme. Both **interrogative prosodic clitics cause preceding words with all-M tonemes to change to all-L**. This is a change of tonemes, not just a matter of intonation, and it precedes M spreading, to which the new L tonemes are subject 4.4. In Kusaal (unlike Dagbani) this lowering only affects the final word, not a sequence of several all-M words.

| | |
|---|---|
| <i>Ànó'ònì</i> $_ \emptyset$ <i>ńyē bà bìgà=∅?</i> | "Who saw their child (<i>bīg^a</i>)?" |
| Who CAT see 3PL child:SG=CQ? | |
| <i>Ànó'ònì ńyē bìgà?</i> | "Who saw a child?" tonally identical to |
| <i>Ànó'ònì ńyē sù'vǔgà?</i> | "Who saw a knife (<i>sù'vǔg^a</i>)?" |
| <i>Fù bōd bó?</i> | "What (<i>bō</i>) do you want?" |
| <i>Ànó'ònì ńyē zūyā?</i> | "Who saw hills (<i>zūyā</i>)?" |
| <i>M ná bōdīg.</i> | "I will get lost." |
| <i>M ná bōdīgèε?</i> | "Will I get lost?" |
| <i>Ò p̄ dǔgē.</i> | "She didn't cook." |
| <i>Ò p̄ dǔgèε?</i> | "Didn't she cook?" |

4.2 Liaison

Liaison words prevent apocope applying to the preceding word, which retains its final vowel mora, but with loss of quality contrasts. Words which have not undergone apocope, like the linker particles *kà* and *yē*, do not change before liaison.

When the LF preceding liaison ends in a short vowel it becomes *ɪ*. For some speakers, this *ɪ* becomes *v* after *g* preceded by a rounded root vowel. LF-final *-mm* behaves as *-mɪ*; *-iə -uə* remain as such, not becoming *-ia -ua*. LFs ending in an overlong vowel sequence reduce to long, and fronting diphthongs are simplified to monophthongs. Certain liaison words then induce further quality changes in the preceding LF, as discussed below.

Liaison enclitics are always preceded by liaison. They are joined to the preceding word by =. The locative particle n^ε 13.3 attaches after nominal sg or pl forms; discontinuous-past n^ε 16.3.2 and the postposed 2pl subject pronoun ya 18.3 attach after verb forms. The bound object pronouns $m^a f^o li ti ya ba$ 12.4.1 attach directly to a verb word or after n^ε or ya . Nominaliser- \grave{n} 21 follows complete NPs.

Examples of the basic liaison changes:

| | | | | | |
|-------------------------|----------|-------------------|------|---|--|
| $k\bar{o}k^a$ | "chair" | + n^ε | "at" | → | $k\bar{o}k\bar{i}=n^{\varepsilon/}$ |
| $d\bar{o}k^{o/}$ | "pot" | + n^ε | "at" | → | $d\bar{o}k\bar{i}=n^\varepsilon$ |
| $b\bar{o}d^a$ | "want" | + ti | "us" | → | $b\bar{o}d\bar{i}=t\bar{i}$ |
| $p\bar{o}g^{o/}$ | "field" | + n^ε | "at" | → | $p\bar{o}g\bar{u}=n^\varepsilon$ |
| $y\grave{a}vg^{o/}$ | "grave" | + n^ε | "at" | → | $y\grave{a}vg\bar{u}=n^{\varepsilon/}$ |
| $t\grave{o}m^m$ | "send" | + ti | "us" | → | $t\grave{o}m\bar{i}=t\bar{i}/$ |
| $d\bar{a}am^{m/}$ | "beer" | + n^ε | "at" | → | $d\bar{a}am\bar{i}=n^\varepsilon$ |
| $k\grave{u}'\theta m^m$ | "water" | + n^ε | "at" | → | $k\grave{u}'\theta m\bar{i}=n^{\varepsilon/}$ |
| $\grave{n}y\bar{e}$ | "see" | + m^a | "me" | → | $\grave{n}y\acute{\varepsilon}\varepsilon=m^a$ |
| $k\grave{i}\grave{a}$ | "cut" | + li | "it" | → | $k\grave{i}\theta=\bar{l}\bar{i}/$ |
| $d\grave{a}'a$ | "market" | + n^ε | "at" | → | $d\bar{a}'a=n^{\varepsilon/}$ |
| $p\bar{a}e/$ | "reach" | + ti | "us" | → | $p\acute{a}a=t\bar{i}/$ |
| $p\bar{i}e/$ | "wash" | + ti | "us" | → | $p\acute{i}\theta=t\bar{i}/$ |
| $d\bar{u}e/$ | "raise" | + ti | "us" | → | $d\acute{u}\theta=t\bar{i}/$ |

Single-aspect verbs with LFs ending in *-ya* behave like fusion verb perfectives; they drop *-ya*, monophthongise diphthongs and prolong preceding short vowels:

| | | | | | |
|--------------------|--------|-------------------|------|---|--------------------------------|
| $s\bar{u}'e^{ya/}$ | "own" | + li | "it" | → | $s\acute{u}'v=\bar{l}\bar{i}/$ |
| $v\bar{u}e^{ya/}$ | "live" | + n^ε | dp | → | $v\bar{u}v=n^{\varepsilon/}$ |

Fronting of the second mora of a LF-final long vowel occurs before the 2pl object pronoun *ya* exactly as before word-internal *y*, with any back mora becoming *e* [ɪ] but no change to front morae, thereby recreating fronting diphthongs in fusion verb pfv forms:

| | | | |
|-----|--|---------|---|
| | $B\grave{a} b\bar{o}d\bar{i}=y\acute{a}.$ | | "They love you." |
| | $K\grave{a} b\grave{a} \grave{n}y\acute{\varepsilon}\varepsilon=y\bar{a}.$ | | "And they saw you (pl)." ($\grave{n}y\bar{e}$ "see") |
| but | $K\grave{a} b\grave{a} k\bar{u}e=y\bar{a}.$ | [koɪja] | "And they killed you (pl)." ($k\bar{u}$ "kill") |
| | $K\grave{a} b\grave{a} k\acute{i}e=y\bar{a}.$ | [kiɪja] | "And they cut you (pl)." ($k\grave{i}\grave{a}$ "cut") |
| | $K\grave{a} b\grave{a} p\acute{a}a=b\bar{a}.$ | | "And they reached them." ($p\bar{a}e/$ "reach") |
| but | $K\grave{a} b\grave{a} p\acute{a}e=y\bar{a}.$ | | "And they reached you (pl)." |

For some speakers, rounding of unrounded long vowel second morae and of the default LF-final short vowel *ɪ* takes place before the 2 sg object pronoun *f*^o "you":

Kà bà kîə=f or *Kà bà kîo=f*. "And they cut you."

Kà bà ñyéə=f or *Kà bà ñyéo=f*. "And they saw you."

M̀ gbáñ'a=f or *M̀ gbáñ'v=f*. "I've grabbed you."

Rounding is invariable in the 1996 NT, probably reflecting an orthographic decision to write *uf* rather than *if* consistently for the spurious object pronoun "you."

The 3sg animate object pronoun ^o "him/her" and the postposed 2pl subject pronoun ^{ya} lose their entire segmental form in their SFs. Both completely override the vowel quality of the pre-liaison mora, creating **secondary diphthongs** 2.2.

The mora before ^o becomes 3.1 [ɔ], always lax. In the LF this mora fuses with the [ɔ] of the LF of the pronoun itself create a long vowel [ɔ:], written *o=o*:

| | | | | | |
|--------------------------|---------|----------------|---|-----------------|----------------------------|
| <i>bòɔd</i> ^a | "want" | + ^o | → | SF <i>bòɔdō</i> | LF <i>bòɔdó=o</i> [bɔ:dɔ:] |
| <i>tùm</i> ^m | "send" | + ^o | → | SF <i>tùmò</i> | LF <i>tùmò=o</i> |
| <i>ñyē</i> | "see" | + ^o | → | SF <i>ñyéo</i> | LF <i>ñyéó=o</i> |
| <i>zū</i> | "steal" | + ^o | → | SF <i>zúo</i> | LF <i>zúó=o</i> [zuɔ:] |
| <i>dì</i> | "eat" | + ^o | → | SF <i>dìo</i> | LF <i>dìò=o</i> |
| <i>kìà</i> | "cut" | + ^o | → | SF <i>kìo</i> | LF <i>kìò=o</i> |
| <i>pāe</i> [/] | "reach" | + ^o | → | SF <i>páo</i> | LF <i>pāó=o</i> |
| <i>p̄e</i> [/] | "wash" | + ^o | → | SF <i>p̄io</i> | LF <i>p̄íó=o</i> |
| <i>dūe</i> [/] | "raise" | + ^o | → | SF <i>dúo</i> | LF <i>dūó=o</i> |

Mane a o. "I am he." (Jn 18:5, 1976)

Mānī ◡ ∅ *áño=∅.* (*àəñ*^{ya} "be")

1SG.CNTR CAT COP=3AN.

Before ^{ya} the preceding mora becomes lax [ɪ]; after front root vowels the effect thus differs from that preceding *ya* or word-internal *y*:

| | | | | | |
|---------------------------------------|---------|-----------------|---|------------------------------|--|
| <i>gòsì</i> ^m ^a | "look!" | + ^{ya} | → | SF <i>gòsì</i> ^{m̄} | LF <i>gòsì</i> ^{m̄} = <i>yá</i> |
| <i>kū</i> | "kill" | + ^{ya} | → | SF <i>kūe</i> | [kɔɪ] LF <i>kūe</i> = <i>yá</i> |
| <i>kìà</i> | "cut" | + ^{ya} | → | SF <i>k̄ie</i> | [kɪɪ] LF <i>k̄ie</i> = <i>yá</i> |
| <i>pāe</i> [/] | "reach" | + ^{ya} | → | SF <i>pāe</i> | LF <i>pāe</i> = <i>yá</i> |
| <i>p̄e</i> [/] | "wash" | + ^{ya} | → | SF <i>p̄ie</i> | LF <i>p̄ie</i> = <i>yá</i> |
| <i>dūe</i> [/] | "raise" | + ^{ya} | → | SF <i>dūe</i> | LF <i>dūe</i> = <i>yá</i> |
| but <i>bè</i> | "be" | + ^{ya} | → | SF <i>b̄eɪ</i> | [bɛɪ] LF <i>b̄eɪ</i> = <i>yá</i> |

Except for nominaliser-*n̄*, liaison enclitics themselves carry H toneme after host-final M toneme and M after L or H. Liaison-enclitic SF-final M becomes H before prosodic clitics, and SF-final M becomes H before interrogative clitics.

| | |
|-----------------------------|--|
| <i>Kà m̄ zábì=bā.</i> | "And I've fought them." |
| <i>Kà m̄ p̄v zábì=f̄v.</i> | "And I didn't fight you." |
| <i>M̄ zábì=bá.</i> | "I've fought them." |
| <i>M̄ p̄v b́v d̄v =f̄v.</i> | "I don't love you." |
| <i>M̄ p̄v b́v d̄v =b́v.</i> | "I don't love them." |
| <i>Kà m̄ p̄v zábì=b́v.</i> | "And I didn't fight them." |
| <i>Àn'v'v̄n̄ k̄v=b́v?</i> | "Who has killed them?" SF <i>k̄v=b̄v</i> |

The locative particle *n̄* has the same tonal effects on the preceding word as the negative prosodic clitic, changing final L to M:

| | | | | | |
|-----|---------------------------------|-------------|-------------|---------------------------------------|----|
| | <i>p̄v v̄v</i> ^{v/} | "field" | + <i>n̄</i> | → <i>p̄v v̄v n̄</i> | |
| | <i>b̄v v̄v</i> ^a | "child" | + <i>n̄</i> | → <i>b̄v v̄v n̄</i> ^{v/} | WK |
| but | <i>m̄v'ar̄</i> ^v | "dam, lake" | + <i>n̄</i> | → <i>m̄v'ar̄ n̄</i> ^{v/} | |
| | <i>ȳv d̄v</i> ^v | "graves" | + <i>n̄</i> | → <i>ȳv d̄v n̄</i> ^{v/} | WK |
| | <i>k̄v v̄v d̄v</i> ^a | "killers" | + <i>n̄</i> | → <i>k̄v v̄v d̄v n̄</i> ^{v/} | WK |

Discontinuous-past *n̄* and 2pl *v̄v* always impose M on the preceding syllable:

| | | | | |
|------|------------------------------|-----------|-------------|-----------------------------------|
| | <i>d̄v v̄v</i> ^v | "cook" | + <i>n̄</i> | → <i>d̄v v̄v n̄</i> ^{v/} |
| | <i>b̄v d̄v</i> ^v | "lose" | + <i>n̄</i> | → <i>b̄v d̄v n̄</i> ^{v/} |
| | <i>ȳv d̄v</i> ^{v/} | "scatter" | + <i>n̄</i> | → <i>ȳv d̄v n̄</i> ^{v/} |
| ipfv | <i>k̄v v̄v</i> ^{a/} | "kill" | + <i>n̄</i> | → <i>k̄v v̄v n̄</i> ^{v/} |
| ipfv | <i>ȳv d̄v</i> ^a | "scatter" | + <i>n̄</i> | → <i>ȳv d̄v n̄</i> ^{v/} |

D̄v d̄v l̄v =ȳv =v̄! "Follow ye not!"
 NEG.IMP follow=2PL.SUB=NEG!

Indicative perfective forms without the independency-marking tone overlay change LF-final M → H before bound object pronouns; final L and H are not affected:

| | | | | | |
|-----|------------------------------|-----------|--------------------------|-----------|--------------------------------------|
| | <i>b̄v d̄v</i> ^v | "lose" | + <i>m̄</i> ^a | "me" | → <i>b̄v d̄v n̄ =m̄</i> ^a |
| | <i>d̄v</i> | "eat" | + <i>l̄</i> | "it" | → <i>d̄v =l̄</i> ^{v/} |
| | <i>ȳv d̄v</i> ^{v/} | "scatter" | + <i>m̄</i> ^a | "me" | → <i>ȳv d̄v n̄ =m̄</i> ^a |
| but | <i>d̄v v̄v</i> ^v | "cook" | + <i>l̄</i> | "it" | → <i>d̄v n̄ =l̄</i> ^{v/} |
| | <i>ḡv s̄v</i> ^v | "look" | + <i>v̄</i> | "him/her" | → <i>ḡv s̄v</i> |
| | <i>k̄v</i> | "kill" | + <i>m̄</i> ^a | "me" | → <i>k̄v =m̄</i> ^a |

LF *ḡv s̄v =v̄*

Pattern H fusion verb perfectives behave exactly like CVV-stems:

| | | | | |
|--------------|---------|------------------------|--------|----------------------------|
| <i>pāe'</i> | "reach" | + <i>m^a</i> | "me" | → <i>páa=m^a</i> |
| <i>dī'e'</i> | "get" | + <i>ba</i> | "them" | → <i>dī'ə=bā'</i> |

After all other verb forms, including all imperfective forms and all forms with independency-marking tone overlay 16.6.1, object pronouns change LF-final L to M:

| | | | | | |
|----------------------------|------------|------------------------|-----------|--------------------------------|----------------------|
| <i>zàbìd^a</i> | "fights" | + <i>m^a</i> | "me" | → <i>zàbìdī=m^a'</i> | |
| <i>zàbìd^a</i> | "fights" | + ^o | "him/her" | → <i>zàbìdō</i> | LF <i>zàbìdó=o</i> |
| <i>dīt^a</i> | "eats" | + <i>li</i> | "it" | → <i>dītī=lí</i> | |
| <i>yādīgíd^a</i> | "scatters" | + <i>ba</i> | "them" | → <i>yādīgídī=bá</i> | |
| <i>yādīgíd^a</i> | "scatters" | + ^o | "him/her" | → <i>yādīgídō</i> | LF <i>yādīgídó=o</i> |
| <i>kōvd^a'</i> | "kills" | + <i>m^a</i> | "me" | → <i>kōvdí=m^a</i> | |
| <i>kōvd^a'</i> | "kills" | + ^o | "him/her" | → <i>kōvdō</i> | LF <i>kōvdó=o</i> |

With independency-marking:

| | | | | | |
|---------------------------|-----------|------------------------|-----------|--------------------------------|--------------------|
| <i>bòdìg^ε</i> | "lose" | + <i>m^a</i> | "me" | → <i>bòdīgī=m^a'</i> | |
| <i>bòdìg^ε</i> | "lose" | + ^o | "him/her" | → <i>bòdīgō</i> | LF <i>bòdīgó=o</i> |
| <i>yādīg^ε'</i> | "scatter" | + <i>m^a</i> | "me" | → <i>yàdīgī=m^a'</i> | |
| <i>yādīg^ε'</i> | "scatter" | + ^o | "him/her" | → <i>yàdīgō</i> | LF <i>yàdīgó=o</i> |

The sequence *o=o* forms a tautosyllabic long vowel; thus word-final *ō* becomes *ó=o* before prosodic clitics, and *ò* becomes *ō=o* before the negative clitic:

| | |
|--------------------------|------------------------------|
| <i>Kà bà zábò.</i> | "And they fought him." |
| <i>Kà bà p̄v zábō=o.</i> | "And they didn't fight him." |

SF-final H corresponds to LF-final MH if the LF ends in an overlong diphthong:

| | |
|--------------------------|----------------------------|
| <i>Kà bà ñyéó.</i> | "And they saw her." |
| <i>Kà bà p̄v ñyēó=o.</i> | "And they didn't see her." |

The irrealis of Pattern A verbs has M before liaison; final *o=o* can be H or M:

| | |
|--------------------------|----------------------------|
| <i>Ò nà bōdīgī=m.</i> | "He will lose me." |
| <i>Ò nà bōdīgī=bá.</i> | "She will lose them." |
| <i>Ò kù bōdīgídī=má.</i> | "He won't be losing me." |
| <i>Ò kù zābìdī=má.</i> | "He won't be fighting me." |

| | |
|---|-----------------------|
| $\dot{O} k\grave{v} z\bar{a}b\acute{o}=o.$ | "He won't fight him." |
| or $\dot{O} k\grave{v} z\bar{a}b\bar{o}=o.$ | "He won't fight him." |

Similarly, liaison enclitics reduced to a single consonant by apocope close the final syllable of the preceding word; thus X toneme is not changed to H in e.g.

| | |
|---|--------------------|
| $K\grave{a} b\grave{a} k\hat{\eta}\bar{o}=m.$ | "And they cut me." |
|---|--------------------|

Toneme changes induced by liaison words *follow* external tone sandhi induced by words before the host; thus $d\grave{a}'a$ "market" + n^ε "at" → $d\bar{a}'a=n^\varepsilon/$; $m\grave{\varepsilon}$ "build" + n^ε dp → $m\bar{\varepsilon}\varepsilon=n^\varepsilon/$; $k\grave{v}$ "kill" [$k\bar{v}$ with independency marking] + m^a "me" → $k\bar{v}\bar{v}=m^a/$; but

| | |
|---|----------------------------------|
| $\dot{O} b\grave{\varepsilon} n\acute{\varepsilon} d\hat{a}'a=n.$ | "She is at market" |
| $D\bar{a}y\ l\bar{a} m\bar{\varepsilon}\varepsilon=n.$ | "The man built (earlier today.)" |
| $D\bar{a}y\ l\bar{a} k\bar{v}\bar{v}=m.$ | "The man has killed me." |

The toneme on the enclitic itself is the same as it would have been *without* the toneme changes induced by preceding words:

| | |
|---|----------------------------|
| $\dot{O} k\bar{v}\bar{v}=b\acute{a}.$ | "She has killed them." |
| $D\bar{a}y\ l\bar{a} k\bar{v}\bar{v}=b\acute{a}.$ | "The man has killed them." |

The pronoun y^a becomes $-n\acute{i}-$ before liaison. The pronoun was historically $*na$, regularly becoming $*y\acute{a}$ with subsequent loss of nasalisation; when $-a$ is deleted by apocope, y is also deleted. Before a liaison word, $-a$ was not deleted but became ι , before which n became $n-$. (Cf also $n\grave{\eta}\eta^\varepsilon$ "do" = Toende Kusaal $\acute{\varepsilon}\eta$, locative $n^\varepsilon \sim n\bar{\iota}'$ = Toende $-\iota$, $n\grave{\eta}\varepsilon$ "appear" = Toende $y\acute{\varepsilon}\varepsilon$, $n\bar{\eta}\eta^a$ "body" = Mooré $y\acute{\eta}ng\acute{a}$.)

| | |
|--|--------------------|
| $D\bar{a} \quad d\bar{o}ll\bar{\iota}=y\acute{a}=\emptyset!$ | "Follow ye not!" |
| NEG.IMP follow=2PL.SUB=NEG! | |
| $D\grave{\eta}'\bar{a}m\bar{\iota}=\emptyset!$ | "Receive ye!" |
| Receive:IMP=2PL.SUB! | |
| $D\grave{\eta}'\bar{a}m\bar{\iota}=n\acute{i}=b\bar{a}!$ | "Receive ye them!" |
| Receive:IMP=2PL.SUB=3PL. | |
| $D\grave{\eta}'\bar{a}m\bar{\iota}=n\acute{o}=\emptyset!$ | "Receive ye her!" |
| Receive:IMP=2PL.SUB=3AN. | |

Biise, siakimini ya du'adib nɔya.

Bīisē=∅, sjàkìmī=ní ̣ yà dṽ'adīb nɔyà.

Child:PL=VOC, agree:IMP=2PL.SUB 2PL parent:PL mouth:PL.

"Children, obey your parents." (Eph 6:1)

Dì'amī=ní ̣ àlá! "Keep ye on receiving!"

Receive:IMP=2PL.SUB ADV:thus!

Nominaliser-*ñ* is bound to both left and right. It combines with a preceding pronoun subject to produce a special set of pronouns [12.4.1](#), but for my informants it is segmental zero in all other contexts. Older texts frequently show *n* and/or liaison, though *n* is nearly always omitted after words with SFs ending in nasal consonants; in KB, *n* (without liaison) occurs mostly after foreign proper names.

ya zuobid wɔsa kalli an si'em

yà zūóbíd wōsā kállí=∅ àñ sī'em

2PL hair:PL all number:SG=NZ COP INDF.ADV

"how much the number of all your hairs is" (Lk 12:7)

Nominaliser-*ñ* has a fixed-L toneme [4.4](#). Except after subject pronouns, the change of a preceding M toneme to H is often the only sign of its presence:

Dāy lā záb nâ'ab lā. "The man has fought the chief."

man:SG ART fight chief:SG ART

but *dāy lá=∅ zàb nà'ab lā* "the man having fought the chief"

man:SG ART=NZ fight chief:SG ART

Non-enclitic liaison words comprise the pronouns *m̀ f̀ ò l̀ t̀ ỳ b̀*, the personifier particle *à/ñ* [12.6](#), catenator-*n*, all words with the number prefixes *à bà b̀* or the manner-adverb prefix *à*, and *ànô'ɔn*^ε "who?"

Liaison before these words is marked with ̣ in glossing. It is only invariably seen in the case of pronouns preceded by a verb within a VP:

T̀ g̀ósí ̣ bà b̀īs. "We looked at their children."

1PL look.at 3PL child:PL.

Particularly in written materials, the quality of the final vowel mora before liaison words beginning with *à-* is not predictable from the phonology alone.

Before *ànô'ɔn*^ε "who?", the manner-adverb prefix *à-* and personifier-particle *à-* the forms are the same as before consonant-initial liaison words:

Ò nìṅí àlá. "She did thus."
 3AN do ADV:thus (contrast *àlá* "how many?" below)

yeli Abaa "said to Dog" KSS p20
yèlì À-Bāa
 say PERS-dog:SG

... [n] *loo Abaa zuur* "... tying Dog's tail" KSS p20
 ... *n lóᵛ À-Bāa zúᵛr*
 ...CAT tie PERS-dog:SG tail:SG

Fusion verbs 7.1 here show forms in final *e* [ɪ], instead of the monophthongs usual before another word in the VP, but *àḡñ^{ya}* "be something" always appears as *àañ*, not *àeñ*, suggesting that this may be simply orthographic:

ka ba gban'e Adayuug "and they seized Rat" KSS p20
kà bà gbáñ'a À-Dàyūug
 and 3PL seize PERS-rat:SG

Ka fᵛ aan anɔ'ɔnɛ? "And who are you?" (Jn 1:19)
Kà fᵛ áañ ànɔ'ɔnɛ=ø?
 And 2SG COP who=CQ?

Before the number prefix *a-* a pre-liaison short vowel is not *-ɪ* but *-a*:

Ṁ mór nē bī́sá àtáñ'. "I have three children."
 1SG have FOC child:PL NUM:three.

Pèédá àlá=ø? "How many baskets?"
 basket:PL NUM:how.many=CQ? (contrast *àlá* "thus" above)

Informants usually contract *-á à-* to *á-* and *-í à-* to *-á-* or *-í-*:

Nū'-bìbìs álá kà fᵛ ñyētá=ø?
 hand-small:PL NUM:how.many and 2SG see:IPFV=CQ?
 "How many fingers do you see?"

Gòsimí lá! or *Gòsim álá!* "Keep on looking!"

The number prefix *a-* originated as **ηa-* 10.2, but prefix-initial **η* disappeared early throughout Western Oti-Volta. The personifier particle and the manner-adverb prefix originally began with consonants which, though now also deleted, persisted long enough for consonant-initial sandhi to be preserved (cf French "*H aspiré*.")

WK and DK round LF-final *ɪ* before *ò* "his/her", but all written sources have *-i*:

Ba gɔsi o biig. "They've looked at her child."
Bà gòsú_ ò bīig.
 3PL look:at 3AN child:SG.

Except for catenator-*n*, all non-enclitic liaison words begin with a fixed-L toneme 4.4. Preceding verb forms show the final tonemes seen before the enclitic object pronouns, and preceding nominal forms show the tonemes seen before the locative particle, but M becomes H before the fixed-L toneme of the liaison word:

Kà bà òtī=bá. "And they were eating them."
 And 3PL eat:PFV=3PL. (ipfv without independency marking)

but *Kà bà òtī_ bà òib.* "And they were eating their food." (ML → HL)
 And 3PL eat:IPFV 3PL food.

bane na yel Zugso bi ba tuuma a si'em la
bàni nà yēl Zūg-sóbí bà tūmá=∅ àñ sī'əm lā
 REL.PL IRR say Lord 3PL deed:PL=NZ COP INDF.ADV ART
 "Those who will tell the Lord how their deeds are." (Heb 13:17, 1996)

After pause, catenator-*n* 19 is a syllabic nasal assimilated to the position of the following consonant. After a final vowel which is not a free word root vowel, WK has a consonantal nasal, assimilated to the position of the following consonant. Elsewhere, he has liaison before segmental zero:

tuum kane ka m tummi tisid Wina'am la.
tūm-kàni kà m túmmi_ ∅ tísìd Wínà'am lā
 work-REL.SG and 1SG work:IPFV CAT give:IPFV God ART
 "The work which I do for God" (Rom 15:17)

Kà ò zó_∅ kēη nā. "And he came running"
 And 3AN run CAT come hither.

Bō_ ∅ lá=∅? "What's that?"
 What CAT that=CQ?

Almost all instances of *n* in KB appear after words with apocope-blocking or foreign names; the particle is usually segmental zero, with preceding liaison. Older sources often show *n* and/or liaison, but *n* is unusual after words with SFs ending in nasal consonants, where liaison is often also absent.

Realisations with neither *n* nor liaison are common after "auxiliary" verbs.

Catenator-*n* is tonally null. Before it the final toneme of a modified LF is M after M toneme and L otherwise, and M spreading follows whenever the *preceding* word would induce it:

amaa o kena ye o tum tisi ba
àmáa ò kē nā yé ò tùm_∅ tìsì=bā
 but 3AN come hither that 3AN work CAT give=3PL
 "but he came to serve them" (Mt 20:28)

M̄ nók sù'vgò_∅ kịá nīm lā.
 1SG pick.up knife:SG CAT cut meat:SG ART.
 "I cut the meat with a knife."

4.3 Segmental contact

The initial consonant and emic nasalisation of the deictic particle *ñwà* "this" are lost when it appears as a dependent after a word ending in a consonant:

| | | | |
|-----|-----------------|------------------|---------|
| | <i>b̄is ñwá</i> | "these children" | [bi:sa] |
| | <i>zàam ñwá</i> | "this evening" | [za:ma] |
| but | <i>p̄'á ñwá</i> | "this woman" | [p̄əwã] |

The initial *l* of the definite article *lā'* assimilates totally to a preceding word-final *-r*, and [r:] simplifies to [r]:

| | | | |
|--|--------------------|-------------|-----------|
| | <i>ȳr lā</i> | "the house" | [jira] |
| | <i>p̄-kòǎnr lā</i> | "the widow" | [p̄kõ:ra] |

Toende Kusaal shows this assimilation after all final consonants (Niggli 2012). The 1976 NT occasionally shows forms like *nidiba* for *n̄dīb lā* "the people."

Initial *n* of focus-*nē'* often assimilates completely to a preceding word-final *d t n r l m* in normal rapid speech. Subsequently [r:] becomes [r] and [d:] becomes [d]:

| | | | |
|--|---------------------|------------------|--------------|
| | <i>Bà kp̄id nē.</i> | "They're dying." | [ba k̄pi:dɛ] |
| | <i>M̄ zót nē.</i> | "I'm afraid." | [m̄ zot:ɛ] |

| | | |
|------------------------------|--------------------------------|--------------------|
| <i>M̄ mór nē b̄īsá àyí'.</i> | "I have two children with me." | [m̄ m̄ɔɛ bi:sa:ji] |
| <i>Lì p̄è'el nē.</i> | "It's full." | [li p̄ɛ:l:ɛ] |
| <i>Lì s̄àñ'am nē.</i> | "It's spoilt." | [li s̄ã:m:ɛ] |

Final nasal consonants of right-bound words and noun prefixes assimilate to the place of articulation of a following consonant, as does syllabic *n̄* but *not m̄*:

| | | |
|-----------------------|-------------------------|------------|
| <i>d̄ankòŋ</i> | "measles" | [daŋkɔŋ] |
| <i>n̄īn-bámmā</i> | "these people" | [nimbam:a] |
| <i>n̄àm zī'</i> | "still not know" | [nanzɪ] |
| <i>N̄-Bīl</i> | Mbillah (personal name) | [mbil] |
| but <i>M̄ nóŋī=f.</i> | "I love you." | [m̄noŋɪf] |

Final nasals of prefixes are written *m* before *p b m*, and *m* everywhere else. Within phrases, word-final short vowels denasalise before initial *n* or *m*:

| | |
|---------------|---|
| <i>àwá nā</i> | "like this here" (<i>àñwá</i> "like this") |
| <i>kē nā</i> | "come hither" (<i>kēñ</i> "come") |

Some right-bound *CVñ*- elements lose nasalisation even when the following consonant is not a nasal. Thus with compounds of *sūñf*^o "heart" like *sū-málsim*^m "joy", *sūñ-kp̄i'oŋ*^o "boldness", *sūñ-p̄ɛɛn*^{ne} "anger" the 1996 NT and older sources write *sumalism sukpi'oŋ/sukpi'eueŋ supeen*, reflecting the bleaching and phonological simplification which has created noun prefixes from some original cbs 10.1. KB restores the nasalisation in writing: *svnkpi'eueŋ* "boldness", *svnpɛɛn* "anger."

Cbs, and verb forms which are not VP-final, do not end in fronting diphthongs unless the next word begins with *y*; diphthongs are replaced by corresponding monophthongs: *aɛ* → *a*; *oɛ* → *o*; *vɛ* → *v*; *ae* → *aa*; *ve* → *vv*; *ie* → *iə*; *ue* → *uə*. Thus *sāɛñ lā* "the blacksmith", but *s̄àñ-kàŋā* "this blacksmith" and e.g.

| | |
|---------------------|---|
| <i>Ò s̄ò'v lór.</i> | "She owns (<i>s̄v'e</i>) a lorry." |
| <i>Dúo w̄ēlá?</i> | "[You] arose (<i>d̄ūe</i>) how?" (Morning greeting) |

Ti ya'a vve, ti vve tis Zug-sɔb la.
Tì yá' v̄v̄ɛ, tì vó nē_ø tís Zūg-sób lā.
 1PL if be.alive, 1PL be.alive FOC CAT give Lord ART.
 "If we live (*v̄v̄ɛ*), we live to the Lord." (Rom 14:8)

Èñrīgìm_ø pāa d̄ó'atà.
 Shift.along:IMP CAT reach doctor:SG.
 "Shift along up to (*pāe*) the doctor."

With *àɛ̃^{ya}* "be" before the focus particle *nɛ̃'* there is also loss of nasalisation:

M á nɛ̃ dāy. "I'm a man."
 but *Lì àñ súnā.* "It's fine."

Older written materials write *àñ* directly before a complement as *a* not *ann*, but KB consistently has *an* [ã] whenever the form is not followed by *nɛ̃'*.

This monophthongisation is fairly recent: Haaf still has e.g. *soiput* for *sòñ-pōt^a* "witchfinder." In texts diphthongs may appear where informants and the audio NT have monophthongs, e.g. *voen vōv=n* "would live" (Gal 3:21, 1996), *Kristo da faaen ti Kristo dá fāañ=tí* "Christ saved us" (Gal 5:1), but *àɛ̃^{ya}* "be" is always *aa(n)* before liaison because the rarity of phrase-final *àɛ̃* inhibits the introduction of analogical spellings, and in the 1996 NT analogy has even led to forms like *faaenm* for imperative *fāañm* "save" and *naae da* for ipfv LF *nāadá* "end."

4.4 M spreading

With no intervening pause, most words cause an initial L toneme in a following word to change to X toneme on superheavy syllables and H on others, unless the L toneme is "fixed", when any preceding M becomes H instead. M spreading follows

all words ending in M toneme
 all words *not* bound to the right
 except for verb perfectives (unless ending in M)
 noun or adjective plurals ending in *-á* or *-í*
 certain forms affected by M dropping [4.5](#)
 bound subject pronouns

Independency marking affects M spreading after subject pronouns, VP particles and verb forms [16.6.1](#). M spreading does not follow clause adjuncts. Its occurrence is otherwise unaffected by clause structure:

Bà tìs nā'ab lā bún. "They gave the chief a donkey (*bùn^a*)."
 3PL give chief:SG ART donkey:SG.

Bà ñwè' nā'ab lā súnā. "They beat the chief well (*súnā'*)."
 3PL beat chief:SG ART good:ADV.

Absent M spreading after nominal plurals in *-á* or *-í*:

Ṃ ḍìgà lú yā. "My dwarfs have fallen down."
1SG dwarf:PL fall PFV.

but *Ṃ yōgv̄má lù yā.* "My camels have fallen down."
1SG camel:PL fall PFV.

Absent M spreading after perfectives without independency-marking tone overlay, not ending in M:

Kà ṃ gōs nâ'ab lā. "And I've looked at (*gōs*^ε) the chief."

Kà ò gōs nâ'ab lā. "And he's looked at the chief."

but *Kà ṃ záb nâ'ab lā.* "And I've fought (*záb*^ε) the chief (*nâ'ab*^a)."

Kà ò záb nâ'ab lā. "And he's fought the chief."

Certain words carry an initial/sole L toneme which is never subject to M spreading. These **fixed-L** words comprise all liaison words not bound to the left except for catenator-*n*, which is toneless, along with the linker particle *kà* "and":

| | |
|--|------------------------------|
| right-bound pronouns | <i>ṃ f̣ò ò lì ṭì yà bà</i> |
| personifier particle | <i>à-/ṇ-</i> |
| pronoun "who?" | <i>ànô'ɔn</i> ^ε |
| nominaliser (all forms) | <i>ṇ</i> |
| words with number or manner-adverb prefixes | <i>à- bà- ḅù-</i> |
| linker particle | <i>kà</i> |

Initial *à-* in loanwords may be treated as fixed-L by analogy.

If there is no intervening pause, a preceding M toneme must become H:

Bà ḳòvḍī=bá. "They kill them."
3PL kill:IPFV=3PL.

but *Bà ḳòvḍí ḅà ḅōvs.* "They kill their goats."
3PL kill:IPFV 3PL goat:PL.

Lì à ṇé à-ḍàaḷóŋ. "It's a stork"
3IN COP FOC PERS-stork:SG.

Ò gòsī bá bédvǔ. "She looked at them a lot." (*ba* object)
 Ò gòsí bà bédvǔ. "She looked at a lot of them." (*bà* possessive)

ba diib n yit na'ateŋ la na zug
 bà **dúb**=n̄ yīt ná'-tēŋ lā nā zúg
 3PL food=NZ emerge:IPFV king-land:SG ART hither upon
 "because their food came from the king's land" (Acts 12:20, 1996)

wuu saa naani iank ya nya'aŋ n ti paae ya tuona la.
 wūv **sáa**=∅ nāanī jáñk yà ñyá'aŋ n tí páe yà tūenà lā
 like rain:SG=NZ then jump 2PL behind CAT after reach 2PL before.ADV ART
 "like when lightning leaps from East to West" (Mt 24:27, 1996)

Fixed-L syllables *are* changed to M before the negative prosodic clitic 4.1; thus *né tì* "with us" but

Amaa o pv lal ne tii.
 Àmáa ò p̄ lāl né t̄i=∅.
 But 3SG NEG.IND be.far with 1PL=NEG.
 "But he is not far from us." (Acts 17:27)

After words ending in M, this sandhi is straightforwardly recognisable as tone spreading. Right-bound pronouns have fixed-L tonemes for my informants even when followed by M spreading, but ILK and Niggli's materials show M, which can be taken as having given rise to *floating* M tonemes in current Agolle. M spreading after SFs ending in H or L can be attributed to floating tonemes delinked by apocope, but in this case M spreading is synchronically mostly determined by syntactic role and by analogy, and prior tonal behaviour persists even after remodelling by *addition* of segments. Words with identical L-final sg and cb, like *mà* "mother", *zùà* "friend", *dú'atà* "doctor", *lànng* "squirrel" show M spreading after sg but not cb, and unlike perfectives, the bare-stem imperfectives *bè* and *nòŋ* are followed by M spreading.

4.5 M dropping

M dropping takes place exclusively within NPs and AdvPs. It occurs after any free form as a predependent, with the exception of the contrastive personal pronouns (like *mān* "my"); it also occurs after any cb ending in M toneme, whether as dependent or head. Historically, M dropping may have arisen by dissimilation of adjacent M tonemes to ML, analogous to Meeussens's Rule (Nurse and Phillipson p65); it is seen after M-final words and after free predependents which mostly originally had M flexions, as shown by M spreading.

M dropping affects only the one following word, which may be a cb.
 Pattern H or A words without prefixes change all tonemes to L.
 M prefixes change to L; the rest of the stem is unaffected.
 Pattern L words and words with L prefixes are completely unaffected.

M dropping applies before M spreading; in the majority of cases the preceding word also induces M spreading, and the new initial L becomes X or H.

M dropping also precedes tonal changes induced by following liaison words:
dāy lā p̄ɔɔḡ=n "in the man's field (*p̄ɔɔḡ*^{ɔ/})."

Examples with a cb as head:

| | | | |
|---------------------------------------|--------------|---------------------------------------|------------|
| <i>b̀-̀p̄ìèlìḡ^a</i> | "white goat" | <i>b̀-̀p̄āalìḡ^a</i> | "new goat" |
| <i>b̄-̀p̄úŋ-̀p̄ìèlìḡ^a</i> | "white girl" | <i>b̄-̀p̄úŋ-̀p̄āalìḡ^a</i> | "new girl" |
| <i>n̄-̀p̄ìèlìḡ^a</i> | "white hen" | <i>n̄-̀p̄āalìḡ^a</i> | "new hen" |

With a cb as dependent (*n̄ɔɔr^{ɛ/}* "mouth", *d̄í'əs^{a/}* "receiver" pl *d̄í'əsídìb^a*):

| | | |
|------------------------------|-----------------------|-------------------------------------|
| <i>n̄-d̄í'əs^a</i> | "chief's interpreter" | pl <i>n̄-d̄í'əsídìb^a</i> |
|------------------------------|-----------------------|-------------------------------------|

There is no M dropping after personal pronouns:

| | | | |
|--------------------|------------|----------------------|-----------|
| <i>̀n̄ b̄ìg</i> | "my child" | <i>̀n̄ t̄ìg</i> | "my tree" |
| <i>m̄ān b̄ìg</i> | "my child" | <i>m̄ān t̄ìg</i> | "my tree" |
| <i>m̄ān ȳḡóm</i> | "my camel" | <i>m̄ān gb̄ìḡim</i> | "my lion" |

M dropping after words which do not also induce M spreading:

| | |
|-------------------------|---|
| <i>̀n̄ b̄ìȳá b̄ìs</i> | "my elder same-sex siblings' children (<i>b̄ìs^{ɛ/}</i>)" |
| <i>̀n̄ b̄ìȳá f̄uud</i> | "my elder same-sex siblings' clothes (<i>f̄uud^{ɛ/}</i>)" |

M dropping after free NPs also followed by M spreading:

| | | | |
|-----------------------|-------------------|-------------------------|-------------------|
| <i>d̄āy b̄ìg</i> | "a man's child" | <i>n̄'ab b̄ìg</i> | "a chief's child" |
| <i>d̄āy lā ȳḡòm</i> | "the man's camel" | <i>d̄āy lā gb̄ìḡim</i> | "the man's lion" |

Unlike M spreading, M dropping occurs only *within* NPs and AdvPs; there is thus a tonal minimal pair between

Bà tìs nâ'ab lā bīg. "They've given (it) to the chief's child."
 3PL give chief:SG ART child:SG. (M dropping applied to *bīg*^a "child")

Bà tìs nâ'ab lā bīg. "They've given the chief a child."
 3PL give chief:SG ART child:SG. (No M dropping applied to *bīg*^a)

It occurs regardless of the meaning or role of the preceding dependent:

mōɔgō=n wábùg lā "the wild (in-the-bush) elephant (*wābōg*^{ɔ/})"

M dropping follows cb heads, but never uncompounded heads:

| | | |
|-----|--------------------|--|
| | <i>kūg-yínnì</i> | "one stone" with <i>yínnì</i> as adjective <u>12.5.1</u> |
| but | <i>kūgōr yīnnì</i> | "one stone" |
| | <i>wābōg lā</i> | "the elephant" |
| | <i>wābīs pīgā</i> | "ten elephants" |

The final element of a compound induces following M spreading in accordance with the usual rules 4.4 regardless of whether it has been subject to M dropping:

| | | | |
|---------------------|--|----------------------|-------------------|
| <i>bù-wōk</i> | "tall goat" | <i>nō-wók</i> | "tall hen" |
| <i>bù-wōk-pìlìg</i> | "tall white goat" | <i>bù-wōk-pāalìg</i> | "tall new goat" |
| <i>nō-wók-pìlìg</i> | "tall white hen" | <i>nō-wók-pāalìg</i> | "tall new hen" |
| <i>bù-wōk dīb</i> | "tall goat's food (<i>dīb</i> ^ɔ)" | <i>nō-wók dīb</i> | "tall hen's food" |

A word of less than three syllables affected by M dropping and M spreading after a free predependent is not itself followed by M spreading. Thus, using the frames "the man's (*dāy lā*) X has got lost (*bòdìg yā*)" and "my elder same-sex siblings' (*m̄ bīēyá*) X has got lost":

Pattern H and A nouns, affected by M dropping:

| | | |
|----------------------------|------------|-------------------------------|
| <i>wābōg</i> ^{ɔ/} | "elephant" | <i>Dāy lā wábùg bòdìg yā.</i> |
| <i>pōɔg</i> ^{ɔ/} | "field" | <i>Dāy lā pōɔg bòdìg yā.</i> |
| <i>bāŋ</i> ^a | "ring" | <i>Dāy lā bāŋ bòdìg yā.</i> |
| <i>pūv</i> ^a | "inside" | <i>Dāy lā pūv bòdìg yā.</i> |

| | | | | |
|-----|-----------------------------|------------|---------------------------------|-----------------|
| but | <i>wābōg</i> ^{ɔ/} | "elephant" | <i>M̄ bīēyá wábùg bóđìg yā.</i> | no M spreading |
| | <i>bāŋ</i> ^a | "ring" | <i>M̄ bīēyá bāŋ bóđìg yā.</i> | no M spreading |
| | <i>yūgvđīr</i> ^ε | "hedgehog" | <i>Dāy lā yūgvđīr bóđìg yā.</i> | three syllables |

Contrast Pattern L nouns, which are not subject to M dropping:

| | | |
|-----------------------------|----------|-----------------------------------|
| <i>b̀̀n̄</i> ^a | "donkey" | <i>Dāy lā b̀̀n̄ b̀̀d̄ìg yā.</i> |
| <i>àñr̀̀n̄</i> ^o | "boat" | <i>Dāy lā àñr̀̀n̄ b̀̀d̄ìg yā.</i> |
| <i>d̀̀c̄g</i> ^o | "house" | <i>Dāy lā d̀̀c̄g b̀̀d̄ìg yā.</i> |

Those Pattern H nouns which have an irregular intrinsic initial H or X toneme seem unchanged after M dropping and spreading, and by analogy have unchanged following tone sandhi; words like *n̄́af*^o "cow" fluctuate:

| | | |
|-------------------------------|-------------|---|
| <i>à-gāv̄n̄g</i> ^o | "pied crow" | <i>Dāy lā gāv̄n̄g b̀̀d̄ìg yā.</i> |
| <i>n̄́af</i> ^o | "cow" | <i>Dāy lā n̄́af b̀̀d̄ìg yā</i> or <i>Dāy lā n̄́af b̀̀d̄ìg yā.</i> |

M dropping applies sequentially, reflecting the substructure of NPs and AdvPs.

When M dropping affects the first component of an existing compound, the second component retains any previous M dropping and spreading effects:

| | | |
|-----|-------------------------------|---|
| | <i>dāy lā b̀̀p̄ìl̄ìg</i> | "the man's white goat (<i>b̀̀p̄ìl̄ìg</i>)" |
| | <i>dāy lā b̀̀p̄ā́l̄ìg</i> | "the man's new goat (<i>b̀̀p̄ā́l̄ìg</i>)" |
| | <i>dāy lā n̄́p̄ìl̄ìg</i> | "the man's white hen (<i>n̄́p̄ìl̄ìg</i>)" |
| | <i>dāy lā n̄́p̄ā́l̄ìg</i> | "the man's new hen (<i>n̄́p̄ā́l̄ìg</i>)" |
| but | <i>d̄v̄g-kánā</i> | "this pot" (<i>d̄v̄k</i> ^o / cb <i>d̄v̄g</i> - "pot") |
| | [<i>sāl̄imā d̄v̄g</i> -]kánā | "this [golden pot]" |

The order of applications of M dropping may also be revealed by the absence of M spreading after some words affected by M dropping:

| | |
|---|--|
| [<i>fūug d̀̀c̄g</i>] | "tent" (<i>fūug</i> ^o / "cloth", <i>d̀̀c̄g</i> ^o "house") |
| <i>p̀̀'vs̀̀g</i> [<i>fūug d̀̀c̄g</i>] | "tabernacle" (<i>p̀̀'vs̀̀g</i> ^o "worship") |

but *Lì k̄ā'* [[[*dāy lā b̀̀ìg*] *b̀̀ə̀r*] *n̄́af*] *z̀̀v̄r̄ē*.

"It's not the man's child's elder-same-sex-sibling's cow's tail." WK
(*b̀̀ìg*^a "child", *b̀̀ə̀r*^ε/ "elder sib of same sex", *n̄́af*^o "cow", *z̀̀v̄r̄ē*^ε "tail")

5 Noun flexion

5.1 Noun classes

Nouns inflect for singular and plural by adding noun class suffixes to the stem; the bare stem is used as a combining form (cb) in composition with a following nominal. This is a frequent occurrence, as it is the regular method of construing a noun with a following dependent adjective or demonstrative. The cb is always subject to apocope, as it can never appear clause-finally or before liaison. Archaisms like *nwadibil* (Mt 2:2, 1996) for *ñwād-bīl*^a "star" (KB *nwadbil*) suggest that consonant-final cbs once ended in an epenthetic vowel.

In the paradigms, noun forms are cited as sg, pl and cb in order.

Each noun class suffix has a basic singular, plural or non-count meaning. Count nouns pair a singular and a plural suffix. Five pairings account for the majority of count nouns: these are labelled using Long Forms of the suffixes, as the *a|ba*, *ga|se*, *gɔ|dɛ*, *rɛ|aa* and *fɔ|u* **noun classes**. Two unpaired non-count suffixes *bɔ mm* form two more noun classes mostly containing mass nouns.

The noun classes were once grammatical genders, with separate 3rd person pronouns and agreement of adjectives and numerals. Kusaal, like Dagbani and Mooré, now has only a natural gender system opposing persons and non-persons, with pronouns based respectively on the original *a|ba* and *rɛ|aa* classes. A few isolated remnants of agreement will be pointed out as they occur.

An expected class suffix may be replaced by one from a different class if the regular form would be rendered ambiguous by consonant cluster assimilation and/or apocope. This has become regular with class *gɔ|dɛ* stems ending in *m n* following a short vowel, which always use the plural suffix *-aa* instead of *-dɛ*, as do all gerunds with sg *gɔ*. Mampruli and Dagbani also show *-a* for the plural of *m n* stems in this class (cf Mampruli *gbəŋŋu* "skin", pl *gbana*), so this suppletion is probably driven by the fact that cluster assimilation would cause the expected plural to resemble a *rɛ|aa* sg. Suppletion does not take place in Mooré or Farefare, where the *gɔ|dɛ* pl suffix has a rounded vowel, unlike the *rɛ|aa* sg: cf Mooré *gǎongò* "skin" pl *gǎndo*.

Adjectives avoid potentially ambiguous suffixes altogether 6.

In two cases, the sg LF has adopted the form proper to a different class suffix that would have produced the same SF: rounded vowels before *-ga* may result in LFs ending in *-ɔ*, as in *nû'ug*^ɔ "hand", and *a|ba* stems in *l n r* following a *short* root vowel show LF *-ɛ* with *l* and *n* geminated, as if the suffix were *rɛ*, e.g. *Bìn*^{nɛ} "Moba person."

Two subclasses are semantically motivated: a subclass of *a|ba* referring to older/important people uses *ba* as the *singular* suffix, and names of languages belong to a subclass of *rɛ|aa* with the singular suffix *lɛ*.

The classes are thus as follows:

| | | | | |
|-------------------------------|---|--|-----------------------------|----------------------|
| <i>a ba</i> <i>ba</i> (sg) | <i>sīd</i> ^a <i>nà'ab</i> ^a | <i>sīdīb</i> ^a <i>nà'-nàm</i> ^a | <i>sìd-</i> <i>nà'-</i> | "husband" "chief" |
| <i>ga sɛ</i> | <i>būvg</i> ^a | <i>būvs</i> ^ɛ | <i>bù-</i> | "goat" |
| <i>gɔ dɛ</i> | <i>dòɔg</i> ^ɔ <i>bū'əsúg</i> ^ɔ | <i>dòɔd</i> ^ɛ <i>bū'əsá</i> | <i>dò-</i> <i>bū'əs-</i> | "hut" "question" |
| <i>rɛ aa</i> <i>lɛ</i> | <i>nōɔr</i> ^{ɛ/} <i>Kūsâal</i> ^ɛ | <i>nōyá</i> | <i>nō-</i> | "mouth" "Kusaal" |
| <i>fɔ u</i> | <i>mòlif</i> ^ɔ | <i>mòlì</i> | <i>mòl-</i> | "gazelle" |
| <i>bɔ</i> | <i>sā'ab</i> ^ɔ | | <i>sà'-</i> | "porridge" |
| <i>mm</i> | <i>tìum</i> ^m | | <i>tì-</i> | "medicine" |

Stems in *m* with long root vowels in the *a|ba* class avoid the plural suffix *ba*; some *ga|sɛ* class nouns with human reference have alternative plurals with *ba*; countable nouns in the *mm* class form plurals with *-aa* or *-sɛ* or *nàm*^a; and the small *fɔ|u* class has some members with *fɔ|u* suffixes in only one number. The sg suffix *la* is found only in the irregular adjective *bīl*^a "little."

Few other cases of irregular sg/pl pairing occur; examples are

| | | | |
|----------------------------|--|---------------|------------|
| <i>pē'og</i> ^{ɔ/} | <i>pē'ɛs</i> ^{ɛ/} | <i>pē'-</i> | "sheep" |
| <i>gbè'og</i> ^ɔ | <i>gbè'ɛd</i> ^ɛ <i>gbèdà</i> | <i>gbè'-</i> | "forehead" |
| <i>bīāyñk</i> ^ɔ | <i>bīāñ'ad</i> ^ɛ WK <i>bīāñ'adā</i> SB | <i>bīāñ'-</i> | "shoulder" |

A few nouns end in *-i* or *-v* with apocope-blocking 3.2:

| | | |
|----------------|-------------|--------------------|
| <i>būdī</i> | <i>būd-</i> | "tribe" |
| <i>nà'asì</i> | | "honour" |
| <i>kābírí</i> | | "entry permission" |
| <i>sūgv́rú</i> | | "forbearance" |

They are probably loans from related languages without apocope, like *kīibú* "soap" from Mampruli. Cognates of *būdī* show that *-dī* represents the *dɛ* pl suffix: Mooré *búudu* "family, kind" sg *búugu*. *Nà'asì* may be *sɛ* pl. *Kābírí* and *sūgv́rú* may be *rɛ* sg, with *kābīr*^{ɛ/} "ask for admission" and *sūgv́r*^{ɛ/} "forbear" as back-formations.

As with almost all noun class systems, there are correlations between class membership and meaning, though there are frequent exceptions. These associations can be exploited to change the significance of a stem 8.2.

The *a|ba* class has exclusively human-reference membership, though many nouns referring to people belong to other classes. A subclass of nouns for elders and other important people uses plural *ba* as singular.

The *ga|sɛ* class has general membership but includes the great majority of tree names, many larger animals, and tools. Ethnic group names mostly belong to *a|ba* or *ga|sɛ*; the place inhabited by the group has sg *-gɔ*.

The *gɔ|dɛ* and *rɛ|aa* classes are the default non-human countable classes. They include all nouns naming fruits, and about four out of five nouns for body parts. Human-reference nouns in *gɔ|dɛ* are pejorative: *bālērōg*^{ɔ/} "ugly person", *dàbōg*^ɔ "coward", *zōlōg*^{ɔ/} "fool." Some originally *a|ba* nouns have been reallocated to *rɛ|aa* for phonological reasons e.g. *bīər*^{ɛ/} "elder same-sex sibling."

The *lɛ* subclass includes all names of languages.

The small *fɔ|ɪ* class includes two groups: animals, and small round things. It contains all names of seeds. No *fɔ|ɪ* noun refers to people.

The *bɔ* class has only three members known to me that are not gerunds: *sā'ab*^ɔ "millet porridge, TZ", *tāñp*^ɔ "war" and *kī'ib*^{ɔ/} "soap."

The *mm* class includes names of liquids and substances and abstract nouns. There are few count nouns, and none referring to people or animals. Names of liquids are all *mm* or *bɔ* or formally plural.

The class membership of regular deverbal nouns is predictable.

The sg SF is usually enough to identify the noun class, given whether the word has human reference. Vacillation between classes and the assignment of loanwords to classes confirm that speakers do use such criteria to determine class membership.

Nouns with sg SFs ending in long monophthongs or in unrounded vowels followed by velars all belong to *ga|sɛ* except for *bā'a* "traditional diviner" and *nàyīg*^a "thief", both *a|ba*. Those ending in rounding diphthongs before velars all belong to *gɔ|dɛ*; those in rounded monophthongs before velars are *gɔ|dɛ* or *ga|sɛ*.

Human-reference nouns in SF *-m* are *a|ba*, some of the *ba*-sg type, like *sām*^{ma} "father"; exceptional is *zōm*^{ne} "fugitive" (*rɛ|aa*). Human-reference nouns ending in a long vowel before *r* are *rɛ|aa*. All remaining human-reference nouns are *a|ba*.

All nouns in SF *-f* belong to *fɔ|ɪ*.

Underived mass nouns in *-m* belong to *mm*, and in *-b* or *-p* to the *bɔ* class.

Non-human-reference count nouns ending in *l n r* belong to *rɛ|aa*, as do those ending in *m* apart from a few *mm*-class count nouns like *pūum*^{m/} "flower." *Pīim*^{m/} "arrow" is a relic of a "long thin things" *ɔ|ɛ* class, lost in Western Oti-Volta.

5.2 Remodelled combining forms

For levelling between sg and pl forms see [3.4](#) [3.6](#).

Combining forms, lacking a flexional suffix and always subject to apocope, would be often reduced by the usual rules to ambiguous forms. Often the expected cb is replaced by a form which is segmentally **but not tonally** that of the singular.

| | | | |
|--------------------------|----------------------------|-------------------------------|--------------------------|
| <i>nīf</i> ^{o/} | <i>nīn</i> ⁱ | <i>nīn-</i> or <i>nīf-</i> | "eye" |
| <i>zīñ'a</i> | <i>zèñ'εs</i> ^ε | <i>zīàñ'-</i> or <i>zèñ'-</i> | "red" (adjective) |
| <i>wōk</i> ^{o/} | <i>wā'ad</i> ^{ε/} | <i>wā'-</i> or <i>wōk-</i> | "long, tall" (adjective) |
| <i>tāñp</i> ^o | | <i>tāñp-</i> | "war" |
| <i>zūg</i> ^{o/} | <i>zūt</i> ^{ε/} | <i>zū-</i> or <i>zūg-</i> | "head" |

Mooré and Toende show *zu-* consistently in cases where Agolle has *zūg-*: Mooré *zusoaba*, Toende *zùsóp*, Agolle *zūg-sób*^a "boss"; Mooré *zúkúká*, Toende *zúkúk*, Agolle *zūg-kōgūr*^ε "pillow." *Zūg-sób*^a "Lord" is very frequently read *Zū-sób*^a in the audio version of the NT. The cb *zūg-* sometimes behaves tonally like a noun prefix [3.8.1](#).

Head-first compounds are formed with complete freedom, which leads to a greater tendency to levelling of cbs than in modifier-first compounds. Thus the cb of *nīf*^{o/} "eye" is *nīn-* as dependent but *nīf-* as head: *nīn-dáa* "face", *nīn-tám*^m "tears", *nīn-gótis*^ε "spectacles" but *nīf-káñā* "this eye." *Gbàuy*^o "letter, book" now has the cb *gbàuy-*, but the dependent cb *gbàn-* still occurred in the 1976 NT *gbanmi'id* *gbàn-mī'id* "scribe" ("book-knower"), KB *gbauymi'id*.

With *m* and *n* stems, remodelled forms are now regular:

| | | | |
|------------------------------|----------------|------------------|--------|
| <i>zīnzāuy</i> ^{o/} | <i>zīnzāná</i> | <i>zīnzáyuy-</i> | "bat" |
| <i>àñròñ</i> ^o | <i>àñrímà</i> | <i>àñròñ-</i> | "boat" |

So too with *CV-*stems in the *rε|aa* class:

| | | | |
|----------------------------|---------------|---------------------|-----------------|
| <i>gbēr</i> ^{ε/} | <i>gbēyá</i> | <i>gbēr-</i> | "thigh" |
| <i>kòkōr</i> ^{ε/} | <i>kòkōyá</i> | <i>kòkōr-</i> | "voice" |
| | | <i>kòkō-títā'ar</i> | "loud voice" NT |

The cb may be remodelled after the *plural* if there is no sg extant, or if the plural has a distinct specialised meaning:

| | | | |
|---------------------------|------------------------|----------------------------|---------------------|
| no sg | <i>kī</i> [/] | <i>kī-</i> or <i>kā-</i> | "cereal, millet" |
| <i>lā'af</i> ^o | <i>līgīdī</i> | <i>lā'-</i> or <i>līg-</i> | "cowrie" pl "money" |

Two words have distinct sg- and pl-reference cbs:

| | | | |
|--------------|---------------------------|---------------------------------|-----------------------|
| <i>dāy</i> | <i>dāp</i> ^a | <i>dāy-</i> sg <i>dāp-</i> pl | "man, male person" |
| <i>tāyñ'</i> | <i>tāñp</i> ^{a/} | <i>tāyñ-</i> sg <i>tāñp-</i> pl | "sib of opposite sex" |

Disambiguation is clearly involved with some longer remodelled cbs:

| | | | |
|----------------------------|----------------------------|------------------------|-------------------------------------|
| <i>kòlòg</i> ^o | <i>kòn</i> ^{nɛ} | <i>kòlòg-</i> | "bag" |
| <i>lànnìg</i> ^a | <i>lànnìs</i> ^ɛ | <i>lànnìg-</i> | "squirrel" |
| <i>kòlòg-kàḡā</i> | "this bag" | cf cb <i>kòl-</i> from | <i>kòlìg</i> ^a "river" |
| <i>lànnìg-pìə̀lìg</i> | "white squirrel" | cf cb <i>là-</i> from | <i>lān</i> ^{nɛ} "testicle" |

Remodelling of cbs after sg/pl forms never affects tones, revealing that cases where a sg/pl seems to precede an adjective or dependent pronoun in fact show cbs: *dāy-sòḡ* "good man", sg *dāy* "man"; *dāp-sòmà* "good men", pl *dāp* "men."

Traditionally, remodelled cbs are written as separate words, and as there is no tone marking this may lead to ambiguity: e.g. *yamug bipuḡ* (Acts 16:16, 1976) for *yammòg-bì-púḡ* "slave girl" not *yammòg bì-púḡ* "slave's girl" 12.8.1.2.

5.3 Paradigms

By default, class suffixes attach after a stem-final epenthetic vowel or root vowel. Complications arise from consonant assimilation, rounding before *-gɔ -kɔ -ḡɔ*, deletion of **g* after *aa iə uə aañ ɛñ ɔñ*, and with CVV-stems before *a, u* and *aa*.

5.3.1 a|ba

Most stems ending in consonants straightforwardly show *-a* in the sg:

| | | | |
|---------------------------------|-----------------------------------|--------------------|-----------------|
| <i>sīd</i> ^a | <i>sīdīb</i> ^a | <i>sīd-</i> | "husband" |
| <i>nīd</i> ^{a/} | <i>nīdīb</i> ^{a/} | <i>nīn-</i> irreg | "person" |
| <i>sàa</i> ^a | <i>sàalīb</i> ^a | <i>sàa-</i> | "human being" |
| <i>kpāad</i> ^{a/} | <i>kpāadīb</i> ^a | <i>kpāad-</i> | "farmer" |
| <i>kōvd</i> ^{a/} | <i>kōvdīb</i> ^a | <i>kōvd-</i> | "killer" |
| <i>kpīkpīn</i> ^{na/} | <i>kpīkpīnīb</i> ^a | <i>kpīkpīn-</i> | "merchant" |
| <i>yōvm-yô'vm</i> ^{na} | <i>yōvm-yô'vmnīb</i> ^a | <i>yōvm-yô'vm-</i> | "singer" |
| <i>bì-pīt</i> ^{a/} | <i>bì-pītīb</i> ^a | <i>bì-pīt-</i> | "younger child" |
| <i>wād-tís</i> ^a | <i>wād-tísīb</i> ^a | <i>wād-tís-</i> | "lawgiver" NT |
| <i>zà'-nō-gúr</i> ^a | <i>zà'-nō-gúrīb</i> ^a | <i>zà'-nō-gúr-</i> | "gatekeeper" NT |

Agent nouns from 3-mora stems in *s* regularly drop the *d* formant in sg and cb, which can result in tonal heteroclites 3.8.1. Many also have *nām*^a plurals.

| | | | |
|---------------------------------|-------------------------------------|---------------------|------------|
| <i>kùəs</i> ^a | <i>kūəsīdīb</i> ^a | <i>kùəs-</i> | "seller" |
| <i>dì'əs</i> ^a | <i>dī'əsīdīb</i> ^a | <i>dì'əs-</i> | "receiver" |
| <i>tù'as-tù'as</i> ^a | <i>tù'as-tū'asīdīb</i> ^a | <i>tù'as-tù'as-</i> | "talker" |
| <i>sīgīs</i> ^{a/} | <i>sīgīsīdīb</i> ^a | <i>sīgīs-</i> | "lowerer" |
| <i>dūs</i> ^a | <i>dūs-nàm</i> ^a | <i>dūs-</i> | "glutton" |

The same behaviour is found with agent nouns from a few other verbs too:

| | | | |
|--|-----------------------------|----------------------|------------|
| <i>sòs</i> ^a | <i>sōsīdīb</i> ^a | <i>sòs-</i> | "beggar" |
| <i>tìs</i> ^a | <i>tīsīdīb</i> ^a | <i>tìs-</i> | "giver" WK |
| <i>kīs</i> ^{a/} or <i>kīsīd</i> ^{a/} | <i>kīsīdīb</i> ^a | <i>kīsīd-</i> (only) | "hater" |

These may be original 3-mora stem verbs with **ss* → *s*. There are also

| | | | |
|------------------------------|----------------------------------|------------------|-----------------|
| <i>zàb-zàb</i> ^a | <i>zàb-zàb-nàm</i> ^a | <i>zàb-zàb-</i> | "warrior" |
| | <i>zàb-zābīdīb</i> ^a | | |
| <i>gbān-záb</i> ^a | <i>gbān-záb-nàm</i> ^a | <i>gbān-záb-</i> | "leatherbeater" |
| <i>ñwī-ték</i> ^a | <i>ñwī-tékīdīb</i> ^a | | "rope-puller" |

Exceptionally, consonant assimilation of **md* does not appear in the plural in

| | | | |
|----------------------------------|-------------------------------------|---------------------|-------------|
| <i>pṣ'à-sāñ'am</i> ^{ma} | <i>pṣ'à-sāñ'amīdīb</i> ^a | <i>pṣ'à-sāñ'am-</i> | "adulterer" |
|----------------------------------|-------------------------------------|---------------------|-------------|

Stems in *VVn-* undergo consonant assimilation in the pl: **nb* → *mm*:

| | | | |
|---------------------------|---------------------------|--------------|-------------------|
| <i>sāan</i> ^{a/} | <i>sáam</i> ^{ma} | <i>sāan-</i> | "guest, stranger" |
|---------------------------|---------------------------|--------------|-------------------|

Stems in *VVm-* have sg *-mm* instead of *-ma*. The assimilation **mb* → *mm* would cause SF sg and pl to coincide segmentally; plurals in *-sɛ* or *nàm*^a appear instead:

| | | | |
|-----------------------------|-------------------------------|----------------|-----------------------|
| <i>kpī'im</i> ^{m/} | <i>kpī'imís</i> ^ɛ | <i>kpī'im-</i> | "dead person, corpse" |
| <i>zū'əm</i> ^{m/} | <i>zū'amís</i> ^ɛ | <i>zū'əm-</i> | "blind person" |
| <i>tādīm</i> ^{m/} | <i>tādīmís</i> ^ɛ | <i>tādīm-</i> | "weak person" |
| | <i>tādīm-nàm</i> ^a | | |

WK accepted *-ba* pl forms as LFs but not SFs in the two words

| | | | |
|----------------------------|--------------------------------|----------------|---------|
| <i>kpēēñm</i> ^m | <i>kpēēñmmā</i> LF only | | |
| | <i>kpēēñm-nàm</i> ^a | <i>kpēēñm-</i> | "elder" |
| <i>bī'əm</i> ^m | <i>bī'əmmā</i> LF only | | |
| | <i>bī'əm-nàm</i> ^a | <i>bī'əm-</i> | "enemy" |

Stems in *l n r* following a *short* root vowel show sg LF *-lle -nne -re*, with the SFs reinterpreted as the outcome of adding *-re* instead of *-a*. Sg LF-final *-ε* is never seen with *ba*-plural words in cases where the stem final would *not* assimilate sg *-re* 3.5.

The assimilation **nb* → *mm* takes place in the plural:

| | | | |
|------------------------------|--|----------------|---------------------|
| <i>Dàgbān</i> ^{ne/} | <i>Dàgbām</i> ^{ma/} | <i>Dàgbān-</i> | "Dagomba person" |
| <i>Bìn</i> ^{ne} | <i>Bìm</i> ^{ma} | <i>Bìn-</i> | "Moba person" |
| <i>Kòtān</i> ^{ne/} | <i>Kòtām</i> ^{ma/} | <i>Kòtān-</i> | member of EW's clan |
| <i>Mōr</i> ^{ε/} | <i>Móom</i> ^{ma} <i>irreg</i> | <i>Mōr-</i> | "Muslim" |

Agent nouns from single-aspect verbs with stems in *-ll* or *-r(r)* not only show alternative *-ε* LF sg forms but also have analogical plurals in *-aa* alongside *-ba*.

| | | | | |
|----|---------------------------------|-----------------------------------|--------------------|----------------------|
| | <i>ñyà'an-dòl</i> ^{la} | <i>ñyà'an-dòllìb</i> ^a | <i>ñyà'an-dòl-</i> | "disciple" NT |
| | <i>ñyā'an-dól</i> ^{le} | <i>ñyā'an-dóllà</i> | <i>ñyā'an-dól-</i> | <i>id</i> WK |
| | <i>gbàn-zāñl</i> ^{la/} | <i>gbàn-zāñllíb</i> ^a | <i>gbàn-zāñl-</i> | "book-carrier" KT WK |
| | <i>bù-zāñl</i> ^{la/} | <i>bù-zāñllíb</i> ^a | <i>bù-zāñl-</i> | "goat-carrier" WK |
| or | <i>bù-zāñl</i> ^{le/} | <i>bù-zāñllá</i> | | |
| | <i>gbàn-mōr</i> ^{a/} | <i>gbàn-mōrìb</i> ^a | <i>gbàn-mōr-</i> | "book-owner" DK |
| | <i>gbàn-tār</i> ^{a/} | <i>gbàn-tārìb</i> ^a | <i>gbàn-tār-</i> | <i>id</i> DK |
| | <i>bù-mōr</i> ^{a/} | <i>bù-mōrìb</i> ^a | <i>bù-mōr-</i> | "goat-owner" WK |
| or | <i>bù-mōr</i> ^{ε/} | <i>bù-mōrá</i> | | |

There is no single rule for the sg form with stems ending in vowels.

Four nouns end in diphthongs in the sg:

| | | | | |
|---------------------------|----|---------------------------|-------------------------------|-----------------------|
| <i>dāu</i> | | <i>dāp</i> ^a | <i>dàu-</i> , <i>dàp-</i> 3.4 | "man" |
| <i>tāuñ</i> [/] | | <i>tāñp</i> ^{a/} | <i>tāuñ-</i> , <i>tāñp-</i> | "sib of opposite sex" |
| <i>sāeñ</i> | WK | <i>sāañb</i> ^a | <i>sañ-</i> | "blacksmith" |
| <i>sāeñ</i> ^{ya} | DK | | | |
| <i>sōeñ</i> | WK | <i>sōoñb</i> ^a | <i>sòñ-</i> | "witch" |
| <i>sōeñ</i> ^{ya} | DK | | | |

*CVg-stems appear in

| | | | |
|--|---------------------------|--------------|-----------------------|
| <i>pṽ'ā</i> ^a ← <i>*pṽaga</i> | <i>pṽ'ab</i> ^a | <i>pṽ'à-</i> | "woman, wife" |
| <i>bā'a</i> ← <i>*baga</i> | <i>bā'ab</i> ^a | <i>bà'-</i> | "traditional diviner" |

Note the irregular long SF vowel of *bā'a*.

Sg final *-v* is dropped in the cb and pl in

| | | | |
|-------------|--------------------------|-------------|----------------------------------|
| <i>pītú</i> | <i>pītíb^a</i> | <i>pīt-</i> | "younger sibling of same sex" |
|-------------|--------------------------|-------------|----------------------------------|

Sàam-pīt^a "father's younger brother" and *bì-pīt^a* "younger child" are regular. Some CVV stems introduce *-d-* in the sg and in the pl or cb:

| | | | |
|------------------------------|-------------------------------|----------------|-----------------------|
| <i>wìd^a</i> | <i>wìb^a</i> | <i>wìd-</i> | "hunter" |
| <i>sōñ'ɔd^a/</i> | <i>sōñ'ɔb^a/</i> | <i>sōñ'ɔd-</i> | "someone better than" |
| <i>p̄-kpāad^a/</i> | <i>p̄-kpāadíb^a</i> | <i>p̄-kpá-</i> | "farmer" |

Other CVV stems have become *re|aa* class, accounting for human-reference nouns in *re|aa* like *p̄-kòǎr^ε* "widow", *dà-kòǎr^ε* "bachelor", *b̄j̄er^ε/* "elder same-sex sib", *p̄ñ'ɔr^ε* "cripple", *ñyē'er^ε/* "next-younger sib." Related languages, including Toende Kusaal, may keep pl *-ba*: Toende *pókóót* pl *p̄kōp* "widow", *dákóót* pl *dakōp* "bachelor", but sg *yē'et* pl *yēra* "next-younger sib."

A subclass referring to older/important people has *-ba* for sg, with pl *nàm^a* 5.4:

| | | | |
|--|--------------------------------|-----------------|-------------------------|
| <i>nà'ab^a</i> | <i>nà'-nàm^a</i> | <i>nà'-</i> | "chief" |
| <i>yáab^a</i> (* <i>yaagba</i>) | <i>yāa-nám^a</i> | <i>yāa-</i> | "grandparent" |
| <i>p̄gvd̄ib^a</i> | <i>p̄gvd̄-nàm^a</i> | <i>p̄gvd̄-</i> | "father's sister" |
| <i>áñsib^a</i> | <i>āñs-nám^a</i> | <i>āñs-</i> | "mother's brother" |
| <i>sàam^{ma}</i> (* <i>mb</i>) | <i>sàam-nàm^a</i> | <i>sàam-</i> | "father" |
| <i>d̄j̄em^{ma}</i> (* <i>mb</i>) | <i>d̄j̄em-nàm^a</i> | <i>d̄j̄em-</i> | "man's parent-in-law" |
| <i>d̄ayáam^{ma}</i> (* <i>mb</i>) | <i>d̄ayāam-nám^a</i> | <i>d̄ayāam-</i> | "woman's parent-in-law" |

5.3.2 *ga|sε*

Straightforward examples include:

| | | | |
|---------------------------------|---------------------------------|--------------------|-----------------|
| <i>b̄vsg^a</i> | <i>b̄vs^ε</i> | <i>b̄-</i> | "goat" |
| <i>ñwādīg^a/</i> | <i>ñwādīs^ε/</i> | <i>ñwād-</i> | "moon, month" |
| <i>āañdīg^a</i> | <i>āañdīs^ε</i> | <i>āañd-</i> | "Vitex doniana" |
| <i>b̄-d̄ib̄ig^a</i> | <i>b̄-d̄ib̄is^ε</i> | <i>b̄-d̄ib-</i> | "male kid" |
| <i>k̄p̄ib̄ig^a</i> | <i>k̄p̄ib̄is^ε</i> | <i>k̄p̄ib-</i> | "orphan" |
| <i>yàmmìg^a</i> | <i>yàmmìs^ε</i> | <i>yàm-</i> | "slave" |
| <i>k̄līg^a</i> | <i>k̄līs^ε</i> | <i>k̄l-</i> | "river" |
| <i>k̄p̄òkp̄àrìg^a</i> | <i>k̄p̄òkp̄àrìs^ε</i> | <i>k̄p̄òkp̄àr-</i> | "palm tree" |
| <i>p̄ūsīg^a/</i> | <i>p̄ūsīs^ε/</i> | <i>p̄ūs-</i> | "tamarind" |
| <i>z̄ɔɔg^a</i> | <i>z̄ɔɔs^ε</i> | | "run, race" |

Root-stems in *Caa Ciə Cuə* delete the **g* of the sg suffix *-ga* 3.7:

| | | | |
|--------------|----------------------------|---------------|---------------------|
| <i>bāa</i> | <i>bāas</i> ^ε | <i>bà-</i> | "dog" |
| <i>sīa</i> | <i>sīəs</i> ^ε | <i>sìà-</i> | "waist" |
| <i>sàbùa</i> | <i>sàbùəs</i> ^ε | <i>sàbùà-</i> | "lover, girlfriend" |

Nasal *iañ uañ* here alternates with *εεñ ɔɔñ*:

| | | | |
|-------------------------|-------------------------------|-------------------------------|-------------------|
| <i>zìñ'a</i> | <i>zèñ'əs</i> ^ε | <i>zìàñ'-</i> or <i>zèñ'-</i> | "red" (adjective) |
| <i>nū'-íñ'a</i> | <i>nū'-êñ'əs</i> ^ε | <i>nū'-éñ'-</i> | "fingernail" |
| <i>nūa</i> ^l | <i>nɔɔs</i> ^{ε/l} | <i>nɔ-</i> | "hen" |

Stems in **CVg-* display consonant assimilation in the sg via **gg* → *kk*:

| | | | |
|-------------------------|---------------------------|-------------|---------------|
| <i>gìk</i> ^a | <i>gìgìs</i> ^ε | <i>gìg-</i> | "dumb person" |
|-------------------------|---------------------------|-------------|---------------|

**Cag-* **Cɿag-* **Cuag-* delete **g* when there is no assimilation 3.7:

| | | | |
|--------------------------|---------------------------|--------------|----------------------|
| <i>zàk</i> ^a | <i>zà'as</i> ^ε | <i>zà'-</i> | "compound" |
| <i>pṹāk</i> ^a | <i>pṹ'as</i> ^ε | <i>pṹ'à-</i> | "female" (adjective) |

Stems in *-m-* and *-n-* show **mg* → *ηη* and **ng* → *ηη* in the sg, with cbs remodelled on the sg. In the pl **ns* → *ñs* 3.5, but **ms* never assimilates in 2-mora stems, and need not do in longer stems. No 3- or 4-mora *n-*stems occur in this class.

| | | | |
|-----------------------------|-------------------------------|-----------------|---------------------------------|
| <i>tēη</i> ^a | <i>tēēñs</i> ^ε | <i>tēη-</i> | "land" |
| <i>pàη</i> ^a | <i>pàañs</i> ^ε | <i>pàη-</i> | "power" |
| <i>bùη</i> ^a | <i>bùmìs</i> ^ε | <i>bùη-</i> | "donkey" |
| <i>nāη</i> ^a | <i>nāmīs</i> ^ε | <i>nàη-</i> | "scorpion" |
| <i>sú'əη</i> ^a | <i>sū'əmís</i> ^ε | <i>sū'əη-</i> | "rabbit" |
| <i>nīη</i> ^a | <i>nīs</i> ^ε | <i>nīη-</i> | "bird" |
| | <i>nīmís</i> ^ε | | |
| <i>kòlìη</i> ^a | <i>kòlìs</i> ^ε | <i>kòlìη-</i> | "door" |
| | <i>kòlìmìs</i> ^ε | | |
| <i>kṵ'alíη</i> ^a | <i>kṵ'alís</i> ^ε | <i>kṵ'alíη-</i> | sleeveless traditional smock |
| | <i>kṵ'alímìs</i> ^ε | | |
| <i>mēədīη</i> ^a | <i>mēədīs</i> ^ε | <i>mēədīη-</i> | "building tool" |
| | <i>mēədīmīs</i> ^ε | | |
| <i>pṵəsíη</i> ^a | <i>pṵəsís</i> ^ε | <i>pṵəsíη-</i> | "sponge for washing" |
| | <i>pṵəsímìs</i> ^ε | | |

Various irregularities are seen in

| | | | |
|---------------------------|-------------------------------|--------------------------|------------------------------|
| <i>bīig</i> ^a | <i>bīis</i> ^ε | <i>bī-</i> or <i>bī-</i> | "child" |
| <i>bèrìŋ</i> ^a | <i>bèrìgìs</i> ^ε | | a plant used for fibre |
| <i>tàmpūa</i> | <i>tàmpōs</i> ^ε | <i>tàmpò-</i> | "housefly" DK (no <i>ñ</i>) |
| <i>bōtīŋ</i> ^a | <i>bōtīs</i> ^ε 2.3 | <i>bòtìŋ-</i> | "cup" |
| <i>sāŋá</i> | <i>sānsá</i> /ns/ | <i>sān-</i> | "time" |

These human-reference nouns have alternative plurals with the suffix *-ba*:

| | | | |
|---------------------------|--|---------------|-----------------------|
| <i>dāsāŋ</i> ^a | <i>dāsām</i> ^{ma} or <i>dāsāñs</i> ^ε | <i>dàsàŋ-</i> | "young man" |
| <i>Yàaŋ</i> ^a | <i>Yàam</i> ^{ma} or <i>Yàamìs</i> ^ε / <i>Yàañs</i> ^ε | <i>Yàaŋ-</i> | "Yanga, Yansi person" |
| <i>Sà'dàbùa</i> | <i>Sà'dàbùəb</i> ^a or <i>Sà'dàbùəs</i> ^ε | | clan name |

Several *sε*-plural stems with rounded root vowels or epenthetic vowels rounded after *m* have sg *gɔ* for the expected *ga*. WK avoids this with human-reference nouns.

| | | | |
|---|--|----------------|--------------------|
| <i>kūug</i> ^a / <i>kūug</i> ^ɔ | <i>kūs</i> ^ε | <i>kū-</i> | "mouse" |
| <i>sù'vɔg</i> ^a / <i>sù'vɔg</i> ^ɔ | <i>sù'vs</i> ^ε | <i>sù'-</i> | "knife" |
| <i>nū'ug</i> ^ɔ | <i>nū'us</i> ^ε | <i>nū'-</i> | "hand" |
| <i>zùnzòŋ</i> ^a / <i>zùnzòŋ</i> ^ɔ | <i>zùnzòŋs</i> ^ε | <i>zùnzòŋ-</i> | "blind person" |
| <i>tèŋ-zùŋ</i> ^ɔ | <i>tèŋ-zùvñs</i> ^ε | | "foreign land" |
| | but <i>pìàñ'-zùnà</i> | | "foreign language" |
| <i>yū'vɔŋ</i> ^ɔ | <i>yū'vmís</i> ^ε | <i>yū'vɔŋ-</i> | "night" |
| <i>zùuñg</i> ^ɔ | <i>zùuñs</i> ^ε or <i>zùuñd</i> ^ε | <i>zùñ-</i> | "vulture" |
| <i>yàmmùg</i> ^a WK | <i>yàmmìs</i> ^ε | <i>yàm-</i> | "slave" |
| or <i>yàmmùg</i> ^ɔ | | | |

Compare Mampruli *nuuwa* pl *nuusi* "hand", *suuwa* pl *suusi* "knife", *kuuwa* pl *kuusi* "mouse", *zuuwa* pl *zuusi* "vulture" (but *yunŋu* pl *yunsi* "night.")

Some original *gɔ|dε* nouns have substituted pl *-sε* for *-dε* instead of *-aa* 5.3.3:

| | | | | |
|----|------------------------------|---|------------------|--------------------|
| | <i>à-dàalúŋ</i> ^ɔ | <i>à-dàalís</i> ^ε WK <i>à-dàalímìs</i> ^ε | <i>à-dàalúŋ-</i> | "stork" |
| | <i>sí'uŋ</i> ^ɔ | <i>sī'imís</i> ^ε | <i>sī'uŋ-</i> | a kind of big dish |
| cf | <i>dìsúŋ</i> ^ɔ | <i>dìsís</i> ^ε <i>dìsímà</i> | <i>dìsúŋ-</i> | "spoon" |

Two words of this type drop *-s-* from the stem in the plural:

| | | | |
|-----------------------------|-----------------------------|-----------------|-----------------|
| <i>wīlísúŋ</i> ^ɔ | <i>wīlímís</i> ^ε | <i>wīlísúŋ-</i> | a kind of snail |
| <i>yālísúŋ</i> ^ɔ | <i>yālímís</i> ^ε | <i>yālísúŋ-</i> | "quail" |

5.3.3 *gɔ|dε*

All stems in *m n* after a short vowel, and all gerunds, use pl *aa* instead of *dε*.

Before the sg *-gɔ -kɔ -ŋɔ* stem-final vowels are rounded, changing epenthetic vowels to *u* and creating rounding diphthongs from root vowels 3.6.

| | | | |
|------------------------------|---------------------------------|---------------|---------------------|
| <i>dāvŋ</i> ^ɔ | <i>dàad</i> ^ε | <i>dà-</i> | "piece of wood" |
| <i>vāvŋg</i> ^{ɔ/} | <i>vāaŋd</i> ^{ε/} | <i>vāñ-</i> | "leaf" |
| <i>fēñ'og</i> ^{ɔ/} | <i>fēñ'ed</i> ^{ε/} | <i>fēñ'-</i> | "ulcer" |
| <i>dàbīog</i> ^ɔ | <i>dàbīəd</i> ^ε | <i>dàbīà-</i> | "coward" |
| <i>vīug</i> ^{ɔ/} | <i>vīid</i> ^{ε/} | <i>vī-</i> | "owl" |
| <i>mōog</i> ^ɔ | <i>mōod</i> ^ε | <i>mò-</i> | "grass, bush" |
| <i>dòndùug</i> ^ɔ | <i>dòndùud</i> ^ε | <i>dòndù-</i> | "cobra" |
| | <i>zùəd</i> ^ε | | "friendship" |
| <i>wābōg</i> ^{ɔ/} | <i>wābīd</i> ^{ε/} | <i>wāb-</i> | "elephant" |
| <i>zūəbóg</i> ^ɔ | <i>zūəbíd</i> ^ε | <i>zūəb-</i> | "(human head) hair" |
| <i>bālērōg</i> ^{ɔ/} | <i>bālērīd</i> ^{ε/} | <i>bālér-</i> | "ugly person" |
| | or <i>bālērīs</i> ^{ε/} | | |
| <i>bēsōg</i> ^ɔ | <i>bēsīd</i> ^ε | <i>bès-</i> | kind of pot |

Some stems ending in root vowels have plurals of the form *CVt*^ε 3.4:

| | | | |
|--------------------------|---|------------|-------------------|
| <i>dòog</i> ^ɔ | <i>dòod</i> ^ε or <i>dòt</i> ^ε | <i>dò-</i> | "hut, room; clan" |
|--------------------------|---|------------|-------------------|

So too *pōog*^{ɔ/} "farm, field", *fūug*^{ɔ/} "clothing, shirt." The sg has a short vowel in

| | | | |
|--------------------------|--------------------------|---------------------------|--------|
| <i>zūg</i> ^{ɔ/} | <i>zūt</i> ^{ε/} | <i>zū-</i> or <i>zūg-</i> | "head" |
|--------------------------|--------------------------|---------------------------|--------|

**Cag-* **Cīag-* **Cuag-* stems 3.7 show sg *-k*^ɔ, and *ya* becomes *ɔ* before *-k*^ɔ 3.6:

| | | | |
|----------------------------|-----------------------------|------------------|-----------------------|
| <i>lāuk</i> ^ɔ | <i>lā'ad</i> ^ε | <i>là'-</i> | "(item of) goods" |
| <i>bīāuñk</i> ^ɔ | <i>bīāñ'ad</i> ^ε | WK <i>bīāñ'-</i> | "shoulder" |
| | <i>bīāñ'adā</i> | SB | |
| <i>lòk</i> ^ɔ | <i>lò'ad</i> ^ε | <i>lù'à-</i> | "quiver (for arrows)" |

Stems in *CVd* show *-t-* in the pl 3.5 via **dd* → *tt*:

| | | | |
|-------------------------|-----------------------|------------|--------------------|
| <i>ùdòḡ^ɔ</i> | <i>ùt^ɛ</i> | <i>ùd-</i> | "(piece of) chaff" |
|-------------------------|-----------------------|------------|--------------------|

Stems in *CVg* develop *kk* in the singular via **gg* → *kk*:

| | | | |
|-------------------------|------------------------------|-------------|-------------------|
| <i>dōk^ɔ/</i> | <i>dōḡōd^ɛ/</i> | <i>dōḡ-</i> | "cooking pot" |
| | <i>dōḡōb dót^ɛ</i> | | "cooking pots" SB |

Stems in *l* develop the cluster *nn* in the pl via **ld* → *nn*:

| | | | |
|---------------------------|--|-------------|--------|
| <i>zōlōḡ^ɔ/</i> | <i>zōn^{nɛ}/</i> | <i>zōl-</i> | "fool" |
| <i>sìlòḡ^ɔ</i> | <i>sìn^{nɛ} or sîlìs^ɛ</i> | <i>sìl-</i> | "hawk" |

The only *m n* stems making plurals with *-dɛ* are *CVVC* root-stems:

| | | | |
|---------------------------|-------------------------------|----------------|--------|
| <i>làḡávḡ^ɔ</i> | <i>làḡāamá</i> | <i>làḡāvḡ-</i> | "crab" |
| | or <i>làḡáam^{mɛ}</i> | | |

So too *màḡávḡ^ɔ* "crab", the plural-only *sūñ-pêen^{nɛ}* "anger" and perhaps the placename *Tèmpáan^{nɛ}* "Tempane", if the second element is from *pāalíg^a* "new."

All stems in *n m* following a short vowel use the plural suffix *aa* instead of *dɛ*. They show **mg* → *ḡḡ* and **ng* → *ḡḡ* in the sg, with cbs remodelled on the sg.

| | | | |
|----------------------------|----------------|-------------------------------|----------------|
| <i>gbàḡ^ɔ</i> | <i>gbàná</i> | <i>gbàḡ-</i> or <i>gbàḡḡ-</i> | "letter, book" |
| <i>zīnzāḡ^ɔ/</i> | <i>zīnzāná</i> | <i>zīnzāḡḡ-</i> | "bat" |
| <i>àñròḡ^ɔ</i> | <i>àñrímà</i> | <i>àñròḡḡ-</i> | "boat" |
| <i>mālōḡ^ɔ</i> | <i>mālímā</i> | <i>mālòḡḡ-</i> | "sacrifice" |

The expected *u*-glide is absent in the sg and cb of

| | | | |
|------------------------------|------------------|-------------------|--------|
| <i>nìn-gbīḡ^ɔ/</i> | <i>nìn-gbīná</i> | <i>nìn-gbīḡḡ-</i> | "body" |
|------------------------------|------------------|-------------------|--------|

This may represent the influence of the alternate sg form *nìn-gbīn^{nɛ}/*.

All regular gerunds of 3-mora- and 4-mora-stem dual-aspect verbs belong to this noun class except for those with stems ending in velars and fusion verbs, which have the singular suffix *re* 8.1.1. Only stems in *-s-* and *-sīm-* have plurals, always with *-aa*:

| | | | |
|----------------------------|-----------------|------------------|------------|
| <i>bū'əsóḡ^ɔ</i> | <i>bū'əsá</i> | <i>bū'əs-</i> | "question" |
| <i>zàaḡsúḡ^ɔ</i> | <i>zàaḡsímà</i> | <i>zàaḡsúḡḡ-</i> | "dream" |

Gerunds of 3-mora *n*-stem verbs never assimilate **ng* → *ηη*, and gerunds of 3-mora *m*-stems only assimilate **mg* → *ηη* optionally: thus *dìgùnòg*^o "lying down", *sùnnòg*^o "bowing the head", *zìñ'inòg*^o "sitting down", *tóɔŋ*^o or *tɔɔmúg*^o "departing", *sàñ'vŋ*^o or *sàñ'amùg*^o "destroying", *kàròŋ*^o or *kàrìmùg*^o "reading."

The place name *Dènòg*^o "Denugu" (?? *Dènnòg*^o) also fails to assimilate **ng*.

5.3.4 *rɛ|aa*

Straightforward examples include:

| | | | |
|---------------------------------|-------------------|-------------------|------------------|
| <i>kūgūr^{ɛ/}</i> | <i>kūgá</i> | <i>kūg-</i> | "stone" |
| <i>dìgìr^ɛ</i> | <i>dìgà</i> | <i>dìg-</i> | "dwarf" |
| <i>bàlàŋìr^ɛ</i> | <i>bàlàŋà</i> | <i>bàlàŋ-</i> | "hat" |
| <i>yūgvdīr^ɛ</i> | <i>yūgvdā</i> | <i>yùgòd-</i> | "hedgehog" |
| <i>pɔ̀'à-sādīr^{ɛ/}</i> | <i>pɔ̀'à-sādá</i> | <i>pɔ̀'à-sād-</i> | "young woman" |
| <i>nóbìr^ɛ</i> | <i>nōbá</i> | <i>nōb-</i> | "leg" |
| <i>lībīr^ɛ</i> | <i>lībā</i> | <i>līb-</i> | "twin" |
| <i>sāngúnìr^ɛ</i> | <i>sāngúnà</i> | <i>sāngún-</i> | "millipede" |
| <i>bì'isìr^ɛ</i> | <i>bì'isà</i> | <i>bì'is-</i> | "woman's breast" |
| <i>sūmmīr^ɛ</i> | <i>sūmmā</i> | <i>sùm-</i> | "groundnut" |

CVV- and CV'V-stems (for the allomorphs before pl -*aa* see 3.4):

| | | | |
|----------------------------|---------------|-------------------|------------------------|
| <i>bīər^{ɛ/}</i> | <i>bīēyá</i> | <i>bīā-</i> | "elder same-sex sib" |
| <i>zūər^ɛ</i> | <i>zūēyā</i> | <i>zūà-</i> | "hill" |
| <i>nōɔr^{ɛ/}</i> | <i>nōyá</i> | <i>nō-</i> | "mouth" |
| <i>zōvər^ɛ</i> | <i>zōyā</i> | <i>zò-</i> | "tail" |
| <i>tītā'ar^ɛ</i> | <i>tītādā</i> | <i>tītá'-</i> | "big" (adjective) |
| <i>ñyē'ər^{ɛ/}</i> | <i>ñyēdá</i> | <i>ñyē'-</i> | "next-younger sibling" |
| <i>pòñ'ɔr^ɛ</i> | <i>pòñdà</i> | <i>pòñ'-</i> | "cripple" |
| <i>yō'vr^{ɛ/}</i> | <i>yōdá</i> | <i>yō'-</i> | "name" |
| <i>yū'ər^ɛ</i> | <i>yūādā</i> | <i>yù'ər-</i> 5.2 | "penis" |

Stems in **Cag-* **Cīag-* **Cuag-* 3.7 may have forms made by analogy with original CV'V-stems, instead of or alongside forms with vowel fusion:

| | | | |
|---------------------------|----------------------------|--------------|---------------------------------|
| <i>bà'ar^ɛ</i> | <i>bà'a</i> or <i>bàdà</i> | <i>bà'-</i> | "idol" (Farefare <i>bàgrè</i>) |
| <i>ñyā'ar^ɛ</i> | <i>ñyā'a</i> | <i>ñyà'-</i> | "root" (← * <i>ɲɛg-</i>) |
| <i>sjà'ar^ɛ</i> | <i>sjà'a</i> | <i>sjà'-</i> | "forest" |

| | | | |
|-----------------------------|---------------------|-----------------|---------------------|
| <i>bjāñ'ar^{ε/}</i> | <i>bjāñ'a</i> | <i>bjāñ'-</i> | "wet mud, riverbed" |
| <i>mù'ar^ε</i> | <i>mụ'àa</i> | <i>mụ'à-</i> | "reservoir, dam" |
| | or <i>mù'adà</i> | | |
| <i>zànkù'ar^ε</i> | <i>zànkụ'àa</i> | <i>zànkụ'à-</i> | "jackal" |
| | or <i>zànkù'adà</i> | | |
| <i>kùndù'ar^ε</i> | <i>kùndụ'àa</i> | <i>kùndụ'à-</i> | "barren woman" |
| | or <i>kùndù'adà</i> | | |

So too, even in a case where the glottalisation is not derived from *g:

| | | | |
|-----------------------------|---------------------|--|--------------------|
| <i>kì-dà'ar^ε</i> | <i>kì-dà'adà</i> WK | | "bought-in millet" |
|-----------------------------|---------------------|--|--------------------|

Stems in deleted *g after a long vowel include fusion verb gerunds 7.1 like *gbáñ'ar^ε* (*gbāñ'e'* "grab"), *dí'ar^ε* (*dī'e'* "get"), *dúar^ε* (*dūe'* "rise") and also

| | | | |
|-------------------------|-------------|-------------|----------------------|
| <i>vúar^ε</i> | <i>vūáa</i> | <i>vūø-</i> | "fruit of red kapok" |
|-------------------------|-------------|-------------|----------------------|

Some root-stems show CV with a short vowel before *rε*, with cb CVr- 5.2:

| | | | |
|--------------------------|--------------|--------------|---------|
| <i>gbēr^{ε/}</i> | <i>gbēyá</i> | <i>gbēr-</i> | "thigh" |
|--------------------------|--------------|--------------|---------|

Similarly *kùkōr^{ε/}* "voice" *kpàkōr^{ε/}* "tortoise" *gāñr^{ε/}* "ebony fruit" *gōmpōzēr^{ε/}* "duck" *ñyò-vōr^{ε/}* "life".

2-mora stem verbs make gerunds in *-rε* instead of *-bo* after a noun cb: *nō-lōor^ε* "fasting" ("mouth-tying"), *fū-yêr^ε* "shirt-wearing"; vowel shortening appears in *nā-lór^ε* "area in compound for tying up cows" and *wìd-lōr^{ε/}* "area for tying up horses."

Stems in *m n l r* undergo consonant assimilation in the sg: **rr* → *r*, **lr* → *ll*, **nr* → *nn*, **mr* → *mn*; on the instability of the cluster *mn* see 3.3.

| | | | |
|----------------------------|----------------|----------------|--------------|
| <i>kùkpàr^ε</i> | <i>kùkpàrà</i> | <i>kùkpàr-</i> | "palm fruit" |
| <i>kpān^{nε}</i> | <i>kpānā</i> | <i>kpàn-</i> | "spear" |
| <i>má'an^{nε}</i> | <i>mā'aná</i> | <i>mā'an-</i> | "okra" |
| <i>pībīn^{nε}</i> | <i>pībīnā</i> | <i>pībìn-</i> | "covering" |
| <i>dūm^{nε}</i> | <i>dūmā</i> | <i>dùm-</i> | "knee" |
| <i>zōom^{nε}</i> | <i>zōomā</i> | <i>zòom-</i> | "fugitive" |
| <i>yòom^{nε}</i> | <i>yòmà</i> | <i>yòom-</i> | "year" 3.4 |
| <i>gbīgīm^{nε}</i> | <i>gbīgīmā</i> | <i>gbìgìm-</i> | "lion" |
| <i>gél^{lε}</i> | <i>gēlá</i> | <i>gēl-</i> | "egg" |
| <i>íll^{lε}</i> | <i>īlá</i> | <i>īl-</i> | "horn" |

With an unusual **mr* → *nn* sandhi, and analogical levelling:

| | | | |
|------------------------------|-----------------------|--------------------|------------|
| <i>ñwān</i> ^{nɛ} SB | <i>ñwānā</i> NT | <i>ñwàn-/ñwàm-</i> | "calabash" |
| <i>ñwām</i> ^{mɛ} WK | <i>ñwāmā</i> SB WK NT | | |

An exceptional suppletive plural, segmentally and tonally, is seen in

| | | | |
|--------------------------|-------------|------------|-------|
| <i>dāar</i> ^ɛ | <i>dābá</i> | <i>dà-</i> | "day" |
|--------------------------|-------------|------------|-------|

These two words probably have 1-mora stems:

| | | | |
|--------------------------|------------------------|------------|----------|
| [Mampruli <i>zari</i>] | <i>zā</i> [/] | <i>zā-</i> | "millet" |
| <i>yīr</i> ^{ɛ/} | <i>yā</i> [/] | <i>yī-</i> | "house" |

Language names 26.4 have the suffix *-lɛ* after stems ending in a root vowel:

| Language | | Speakers | |
|------------------------------|----------------|-------------------------------|-----------|
| <i>Kūsāal</i> ^ɛ | Kusaal | <i>Kūsāas</i> ^ɛ | Kusaasi |
| <i>Mòɔl</i> ^ɛ | Mooré | <i>Mòɔs</i> ^ɛ | Mossi |
| <i>Zàngbèɛl</i> ^ɛ | Hausa | <i>Zàngbèɛd</i> ^ɛ | Hausa |
| <i>Nàsāal</i> ^ɛ | English/French | <i>Nàsàa-nàm</i> ^a | Europeans |

Stems in *-r-* show the distinctive assimilation **rl* → *tt* 3.5, but other stems ending in a consonant show forms indistinguishable those with the flexion *rɛ*:

| | | | |
|------------------------------|---------------|------------------------------|-------------|
| <i>Yāt</i> ^{ɛ/} | Yarsi | <i>Yārīs</i> ^{ɛ/} | Yarsi |
| <i>Bāt</i> ^{ɛ/} | Bisa | <i>Bārīs</i> ^{ɛ/} | Bisa |
| <i>Nàbìr</i> ^ɛ | Nabit | <i>Nàbìdìb</i> ^a | Nabdema |
| <i>Tùənnìr</i> ^ɛ | Toende Kusaal | <i>Tùən</i> ^{nɛ} | Toende area |
| <i>Dàgbān</i> ^{nɛ/} | Dagbani | <i>Dàgbām</i> ^{ma/} | Dagomba |
| <i>Bìn</i> ^{nɛ} | Moba | <i>Bìm</i> ^{ma} | Moba |
| <i>Yàan</i> ^{nɛ} | Yansi | <i>Yàańs</i> ^ɛ | Yansi |
| <i>Gūrín</i> ^{nɛ} | Farefare | <i>Gūrís</i> ^ɛ | Farefare |
| <i>Tàlìn</i> ^{nɛ} | Talni | <i>Tàlìs</i> ^ɛ | Tallensi |
| <i>Bùl</i> ^{lɛ} | Buli | <i>Bùlìs</i> ^ɛ | Bulsa |
| <i>Àgòl</i> ^{lɛ} | Agolle Kusaal | <i>Àgòl</i> ^{lɛ} | Agolle area |

Unexpected epenthesis occurs in:

| | | | |
|--------------------------------|----------|--------------------------------|-----------|
| <i>Kàmbònìr</i> ^ɛ | Twi | <i>Kàmbòmìs</i> ^ɛ | Ashanti |
| <i>Ñwāmpūrìl</i> ^{ɛ/} | Mampruli | <i>Ñwāmpūrìs</i> ^{ɛ/} | Mamprussi |

5.3.5 *fɔ|u*

| | | | |
|---------------------------------|--------------|--------------|-----------------|
| <i>mòlɪ̯f</i> ^ɔ | <i>mòlì</i> | <i>mòl-</i> | "gazelle" |
| <i>bīlɪ̯f</i> ^ɔ | <i>bīlì</i> | <i>bīl-</i> | "seed" |
| <i>ñyīrɪ̯f</i> ^ɔ | <i>ñyīrì</i> | <i>ñyīr-</i> | "egusi" |
| <i>zūrɪ̯f</i> ^ɔ | <i>zūrì</i> | <i>zūr-</i> | "dawadawa seed" |
| <i>bōn-búvdɪ̯f</i> ^ɔ | | | "plant" |
| [Mooré <i>muiifu</i>] | <i>mùjì</i> | <i>mùjì-</i> | "rice" |

The plural *-u* causes umlaut of the stem vowels *aa iə* to *ii*.

| | | | |
|---|-------------|--------------------------|------------------|
| <i>náaf</i> ^ɔ (* <i>naagfv</i>) | <i>nīgí</i> | <i>nā-</i> <u>3.4</u> | "cow" |
| <i>wáaf</i> ^ɔ (* <i>waagfv</i>) | <i>wīgí</i> | <i>wā-</i> | "snake" |
| [Mampruli <i>kaafu</i>] | <i>kī'</i> | <i>kī-</i> or <i>kā-</i> | "cereal, millet" |

Stems in *-n-* show consonant assimilation in the sg with **nf* → *ɸf* 3.5:

| | | | |
|----------------------------|---------------|----------------------------|-----------------|
| <i>nīf</i> ^ɔ | <i>nīnì</i> | <i>nīn-</i> or <i>nīf-</i> | "eye" |
| <i>píiñf</i> ^ɔ | <i>pīnì</i> | <i>pīn-</i> | "genet" |
| <i>kīiñf</i> ^ɔ | <i>kīnì</i> | | "millet seed" |
| <i>zú'vñf</i> ^ɔ | <i>zū'vnì</i> | | "dawadawa seed" |
| <i>mīif</i> ^ɔ | <i>mīinì</i> | | "okra seed" |

Sg *mīif*^ɔ is remodelled after the umlauted pl: cf *má'an*^{ne} "okra."

In two words stem *-d-* is lost in the sg:

| | | | |
|---------------------------|---------------|----------------------------|---------------------|
| <i>wìəf</i> ^ɔ | <i>wìdì</i> | <i>wìd-</i> | "horse" |
| <i>lā'af</i> ^ɔ | <i>līgīdī</i> | <i>lā'-</i> or <i>līg-</i> | "cowrie" pl "money" |

Some words only have *fɔ|u* class suffixes in one number:

| | | | |
|--|--|--------------------|-------------------|
| <i>zīiŋ</i> ^a | <i>zīmí</i> | <i>zīm-</i> | "fish" |
| <i>wālīg</i> ^a | <i>wālīs</i> ^ε or <i>wālí sic</i> | <i>wàl-</i> | a kind of gazelle |
| <i>sībīg</i> ^{a/} | <i>sībí</i> | <i>sīb-</i> | a kind of termite |
| <i>sīiñf</i> ^{ɔ/} or <i>sīiñg</i> ^{a/} | <i>sīiñs</i> ^{ε/} | <i>sīñ-</i> | "bee" |
| <i>sūñf</i> ^{ɔ/} or <i>sūuñr</i> ^{ε/} | <i>sūñyá</i> | <i>sūñ-</i> | "heart" |
| <i>kpá'vŋ</i> ^ɔ | <i>kpī'iní</i> | <i>kpā'- irreg</i> | "guinea fowl" |

Pīinī "gift" reflects a class obsolete in Western Oti-Volta, with *aa* umlauted to *ii* by the flexion *u*: cf Moba *pāāb* "gift", pl *pāānī*. It is used as sg, with cb *pīin-*.

5.3.6 *bɔ*

Only three *bɔ* class nouns have been found which are not gerunds:

| | | |
|---------------------------|---------------|-----------------------|
| <i>sā'ab</i> ^ɔ | <i>sà</i> '- | "millet porridge, TZ" |
| <i>tāñp</i> ^ɔ | <i>tāñp</i> - | "war" <u>3.4</u> |
| <i>kī'ib</i> ^ɔ | | "soap" |

All regular gerunds from 2-mora-stem dual-aspect verbs belong here 8.1.1: stems in *b* show *-p-* via **bb* → *pp*: *sōp*^ɔ from *sōb*^ε "write", *lōp*^ɔ from *lōb*^ε "throw stones at", and stems in *m* show **mb* → *mm*: *kīm*^{mɔ} from *kīm*^m "tend a flock/herd", *wōm*^{mɔ} from *wòm*^m "hear." Stems in *n* do not assimilate, however: *būnīb*^ɔ from *bùn*^ε "reap."

Yīs^ε "make go/come out" has the expected gerund *yīsīb*^ɔ; the alternate form *yīs*^{ε/} has *yīsib*^ɔ, the only 3-mora stem in the *bɔ* class.

5.3.7 *mm*

Most words in this class are mass nouns. Straightforward forms include:

| | | |
|-----------------------------|----------------|---------------------|
| <i>dāam</i> ^{m/} | <i>dā</i> - | "millet beer, pito" |
| <i>mèlɨgìm</i> ^m | | "dew" |
| <i>kōdīm</i> ^m | | "olden days" |
| <i>dū'uním</i> ^m | <i>dū'un</i> - | "urine" |
| <i>dàalím</i> ^m | | "masculinity" |
| <i>yàarìm</i> ^m | <i>yàar</i> - | "salt" |
| <i>zāańsím</i> ^m | <i>zāańs</i> - | "soup" |

M-stems can be identified from cbs in *m*, pls in *-ma* or *-mɨs*^ε, or non-initial H tonemes in Pattern L 3.8.1.

| | | | |
|-----------------------------|----------------------------------|----------------------|--------------------|
| <i>vōm</i> ^{m/} | <i>vōm</i> - | "life" | |
| <i>kūm</i> ^m | <i>kùm</i> - | "death" | |
| <i>zōm</i> ^{m/} | <i>zōm</i> - | "flour" | |
| <i>bùgúm</i> ^m | <i>bùgúm</i> - or <i>bùgōm</i> - | "fire" | |
| <i>yā'am</i> ^{m/} | <i>yā'am</i> - | "gall; gall bladder" | |
| <i>pūum</i> ^{m/} | <i>pūum</i> - | "flowers, flora" | |
| <i>bì'isím</i> ^m | | "milk" | |
| <i>dàalím</i> ^m | <i>dàalím</i> ^ε | <i>dàalím</i> - | "male sex organs" |
| <i>pīim</i> ^{m/} | <i>pīimá</i> | <i>pīim</i> - | "arrow" <u>3.4</u> |

Pīim^{m/} "arrow" is a remnant of an old "long, thin things" *ɔ|ε* class, preserved in e.g. the Gurma languages and Nawdm: cf Nawdm *fíímú* "arrow", plural *fíímí*.

5.4 *Nàm* plurals

Nàm^a is not a suffix, but a NP head, with a predependent noun appearing as cb for count nouns (*kp̄ēñm*^m pl *kp̄ēñm-nàm*^a "elder") and as sg or pl for mass nouns (*sā'ab nám*^a "portions of porridge", *bùgúm nám*^a "fires, lights.")

Nàm^a is used with loanwords, pronouns [12.4](#), quantifiers [12.5](#), plurals with singular meaning and mass nouns with count meaning [12.2](#), and with forms with the personifier particle [12.6](#). It is also used to avoid ambiguous regular plurals, with nouns using *-ba* as sg [5.3.1](#), and to pluralise the bare-root sg forms of

| | | | |
|------------------------|--|-------------|----------|
| <i>mà</i> | <i>mà nám</i> ^a (tone <i>sic</i> , as if uncompounded) | <i>mà-</i> | "mother" |
| <i>bā</i> [/] | <i>bā-nám</i> ^a | <i>bā-</i> | "father" |
| <i>zụà</i> | <i>zụà-nàm</i> ^a | <i>zụà-</i> | "friend" |

5.5 Loanwords

Loanwords [11.1](#) adopt noun classes by analogy or make *nàm*^a plurals:

| | | | |
|-----------------------------------|--|------------------|--|
| <i>ga sɛ: àràzàk</i> ^a | <i>àràzà'as</i> ^ɛ | <i>àràzà-</i> | "riches" |
| <i>màlìāk</i> ^{a/} | <i>màlìā'as</i> ^{ɛ/} | <i>màlìā-</i> | "angel" DK |
| <i>gɔ dɛ: gādṽg</i> ^{ɔ/} | <i>gāt</i> ^{ɛ/} | <i>gād-</i> | "bed" |
| <i>lòmbò'ɔg</i> ^ɔ | <i>lòmbò'ɔd</i> ^ɛ | <i>lòmbò-</i> | "garden" |
| <i>rɛ aa: lór</i> ^ɛ | <i>lòyà</i> or <i>lòɔm</i> ^{ma} | <i>lór-</i> | "car, lorry" (cf <i>Mōr</i> ^ɛ) |
| <i>àlópìr</i> ^ɛ | <i>àlópìyà</i> | | "aeroplane" SB |
| <i>wādīr</i> ^{ɛ/} | <i>wādá</i> | <i>wād-</i> | pl "customs, law" |
| <i>gādṽ</i> | <i>gādṽ-nám</i> ^a | <i>gādṽ-</i> | "bed" WK |
| <i>kèèkè</i> | <i>kèèkè-nàm</i> ^a | <i>kèèkè-</i> | "bicycle" |
| <i>dāká</i> | <i>dāká-nàm</i> ^a | <i>dāká-</i> | "box" |
| <i>téèbùl</i> ^ɛ | <i>téèbùl-nàm</i> ^a | <i>téèbùl-</i> | "table" |
| <i>Nàsāarā</i> | <i>Nàsàa(r)-nàm</i> ^a | <i>Nàsàa(r)-</i> | "European" 26.4 |

Loanwords ending in L or H toneme distinguish sg from cb by the fact that M spreading only follows the sg, conforming to the usual rule [4.4](#):

| | |
|---------------------|---|
| <i>dú'atà nâ'ab</i> | "a doctor's chief" |
| <i>dú'atà-nâ'ab</i> | "a doctor-chief, doctor who is a chief" |

Some all-M loanwords change final M to H in the cb on the analogy of Kusaal nouns with M toneme noun prefixes [3.8.1](#): *dūnyā* "world", *dūnyá-kàṅā* "this world."

6 Adjective flexion

Unlike nouns, most Kusaal adjectives show suffixes from more than one noun class. This reflects the prehistory of the language, in which noun classes triggered agreement and adjectives took the suffix of the head noun, which preceded as a combining form, effectively infixing the adjective stem between the noun stem and its suffix. Like most Western Oti-Volta languages, Kusaal has lost the agreement system, but adjectives commonly remain extant with suffixes from more than one class, now usually in free variation. Thus from *būvg*^a "goat":

| | | | |
|-------------------------------|-------------------------------|----------------------------------|--------------|
| <i>bù-pìəlìg</i> ^a | <i>bù-pìəlìs</i> ^ε | <i>bù-pìəl-</i> (<i>ga sε</i>) | "white goat" |
| <i>bù-pìəl</i> ^{lε} | <i>bù-pìələ</i> | <i>bù-pìəl-</i> (<i>rε aa</i>) | <i>id</i> |

A few traces of agreement remain, accounting for all cases with *mm* 12.8.1. There is also some preference for *ga|sε* suffixes for human reference: *nīn-sábilìs*^ε "Africans", where *nīn-sábilà* is accepted by informants but is much less common, and *Zuà-wìis*^ε "Red Zoose" (clan), where the adjective does not normally use pl *sε*. The suffixes *a|ba* and *fɔ|u* appear only in set expressions; *bo* never occurs at all.

WK claims a meaning difference in intensity in gradable adjectives with sg suffixes of different classes, consistently ranking them *ga rε go* in decreasing order, so that *fū-pìəlìg* "white shirt" is whiter than *fū-pìəl id*. However, DK specifically denied any difference of meaning.

Class suffixes are avoided when their combination with stem finals would give rise to unclear or ambiguous SFs. The availability of alternatives from three classes permits avoidance much more freely than with nouns. A further major constraint is that only two adjectives show suffixes from both the *ga|sε* and *go|dε* classes:

| | | | |
|-----------------------------------|--|--------------|-------|
| <i>zìñ'a</i> | <i>zèñ'εs</i> ^ε | <i>zèñ'-</i> | "red" |
| <i>zèñ'og</i> ^o | <i>zèñ'εd</i> ^ε or <i>zèñdà</i> | | |
| <i>bī'a</i> | <i>bī'əs</i> ^ε | <i>bìà'-</i> | "bad" |
| <i>bē'og</i> ^o | <i>bē'εd</i> ^ε | <i>bè'-</i> | |
| also <i>bē'εd</i> ^ε sg | <i>bè'εd-nàm</i> ^a pl | | |

Other adjectives are *either ga-* or *go-* type, along with *rε|aa* class suffixes; this probably reflects simplification of the old agreement system prior to its complete abandonment. Adjectives of the *ga* type include:

| | | | |
|---------------------------|---------------------------|-------------|--------|
| <i>wàbìg</i> ^a | <i>wàbìs</i> ^ε | <i>wàb-</i> | "lame" |
| <i>wàbìr</i> ^ε | <i>wàbà</i> | | |

| | | | |
|---------------------------------|-----------------------------|---------------|-------------|
| <i>vènnìg</i> ^a | <i>vènnìs</i> ^ε | <i>vèn-</i> | "beautiful" |
| <i>vènnìr</i> ^ε rare | <i>vènnà</i> | | |
| <i>vèñllìg</i> ^a | <i>vèñllìs</i> ^ε | | "beautiful" |
| | <i>vèñllà</i> | | |
| <i>sābílìg</i> ^a | <i>sābílìs</i> ^ε | <i>sābīl-</i> | "black" |
| <i>sābíl</i> ^{lε} | <i>sābílá</i> | | |

Similar are *wēnnīr*^ε "resembling" *pāalìg*^a "new" *záal*^{lε} "empty" *bāañlìg*^a "slim" *pìə̀lìg*^a "white."

Sg *rε* is not used with *ga*-type stems in *m n*:

| | | | |
|--------------------------|----------------------------|--------------|---------|
| <i>dēēŋ</i> ^a | <i>dēēñs</i> ^ε | <i>dēēŋ-</i> | "first" |
| | <i>dēēmīs</i> ^ε | | |
| | <i>dēēnā</i> | | |

Pl *sε* is not used with 2-mora stems in *m n*, or with any stems in *s d*:

| | | | |
|-----------------------------|---------------|---------------|--------------|
| <i>gīŋ</i> ^a | <i>gīmā</i> | <i>gìŋ-</i> | "short" |
| <i>bōgvsíg</i> ^a | | <i>bōgūs-</i> | "soft" |
| <i>bōgvsír</i> ^ε | <i>bōgvsá</i> | | |
| <i>pòɔ̀dìg</i> ^a | | <i>pòɔ̀d-</i> | "few, small" |
| <i>pòɔ̀dìr</i> ^ε | <i>pòɔ̀dà</i> | | |

Similarly *mā'asír*^ε "cold, wet" *mā̀lísír*^ε "sweet" *tēbísír*^ε "heavy" *lābísír*^ε "wide."

Adjectives of the *go*-type only show pl *dε* in a few 2-mora stems ending in vowels or plosives:

| | | | |
|---------------------------------|----------------------------|----------------------------|--------------|
| <i>nèog</i> ^ɔ | <i>nèed</i> ^ε | <i>nè-</i> | "empty" |
| <i>nèer</i> ^ε | <i>nèyà</i> | | |
| <i>wìug</i> ^ɔ | <i>wìid</i> ^ε | <i>wì-</i> | "red" |
| <i>wìir</i> ^ε | <i>wìyà</i> | | |
| <i>wōk</i> ^{ɔ/} | <i>wā'ad</i> ^{ε/} | <i>wā'-</i> or <i>wōk-</i> | "long, tall" |
| <i>wā'ar</i> ^{ε/} rare | <i>wá'a</i> | | |

| | | | |
|----------------------------------|------------------------------|---------------|---------|
| <i>kōdōg</i> ^o | <i>kōt</i> ^ε rare | <i>kòd-</i> | "old" |
| <i>kōdīr</i> ^ε | <i>kōdā</i> | | |
| <i>bèdòg</i> ^o | | <i>bèd-</i> | "great" |
| <i>bèdīr</i> ^ε rare | <i>bèdà</i> | | |
| <i>tītā'ug</i> ^o rare | <i>tītādā</i> | <i>tītá'-</i> | "big" |
| <i>tītā'ar</i> ^ε | | | |

Adjectives of the *gō*-type with stems in *l m n r s* do not use *re*, and accordingly end up with sg *gō* pl *aa* only:

| | | | |
|-------------------------------|-----------------|-----------------|-----------------------|
| <i>sòŋ</i> ^o | <i>sòmà</i> | <i>sòŋ-</i> | "good" |
| <i>kīsòg</i> ^o | <i>kīsá</i> | <i>kīs-</i> | "hateful, taboo" |
| <i>dà-zēmmóg</i> ^o | <i>dà-zēmmá</i> | <i>dà-zēm-</i> | "equal piece of wood" |
| <i>tōvlóg</i> ^o | <i>tōvlá</i> | <i>tōvl-</i> | "hot" |
| <i>lāllóg</i> ^o | <i>lāllá</i> | <i>lāl-</i> | "distant" |
| <i>mì'isòg</i> ^o | <i>mì'isà</i> | <i>mì'is-</i> | "sour" |
| <i>wàuxŋ</i> ^o | <i>wànà</i> | <i>wàuxŋ-</i> | "wasted, thin" |
| <i>kpì'orŋ</i> ^o | <i>kpì'əmə</i> | <i>kpì'orŋ-</i> | "hard, strong" |
| <i>zùlòŋ</i> ^o | <i>zùlìmà</i> | <i>zùlòŋ-</i> | "deep" |
| <i>yī-póŋròg</i> ^o | <i>yī-póŋrà</i> | | "nearby house" |

Similarly *yàlòŋ*^o "wide" *nyālòŋ*^o "wonderful" *yēl-náròŋ*^o "necessary thing."

Deverbal adjectives 9.2.1.2 of the **resultative** type derived with **-lum-* belong here. KT (but not WK) also has forms without *-m-* in both sg and pl:

| | | | | |
|---------------------------------|---------------------|-----------------|----------------|-------|
| <i>kpìilóg</i> ^o | <i>kpìilìmà</i> | <i>kpìilòŋ-</i> | "dead" | WK |
| <i>nīn-kpìilòg</i> ^o | <i>nīn-kpìilìmà</i> | | "dead person" | KT |
| <i>gēēñlóg</i> ^o | <i>gēēñlìmà</i> | <i>gēēñlòŋ-</i> | "tired" | WK |
| <i>nīn-gēēñlòg</i> ^o | <i>nīn-gēēñlìmà</i> | | "tired person" | KT |
| <i>pè'elóg</i> ^o | <i>pè'elìmà</i> | <i>pè'elòŋ-</i> | "full" | WK KT |
| | <i>dōg-pé'elà</i> | | "full pots" | KT |

Deverbal adjectives of the **habitual** type are derived with *d*, but the *d* is often assimilated or dropped, so not all habitual adjectives are *d*-stems. They are *ga*-type for WK, but *gō*-type for KT. In either case, the pl suffix is always *aa*, as expected:

| | | | |
|-------------------------------|--------------|--------------|----------------------|
| <i>kōvdīr</i> ^ε | <i>kōvdá</i> | <i>kōvd-</i> | "murderous; |
| <i>kōvdíg</i> ^a WK | | | liable to be killed" |
| <i>kōvdóg</i> ^o KT | | | |

| | | | |
|---|------------------------------------|-------------|------------------------------------|
| <i>tōmmīr</i> ^ε | <i>tōmmā</i> WK <i>tōmnā</i> KT | <i>tòm-</i> | "working, helpful" |
| <i>sīnnír</i> ^ε rare <i>sīnníg</i> ^a | <i>sīnná</i> | <i>sīn-</i> | "silent" |
| <i>mōr</i> ^{ε/} <i>kòg-dēl</i> ^{lε/} | <i>mōrá</i> <i>kòg-dēllá</i> | <i>mōr-</i> | "having" "chair for leaning on" |

Stems in *g k η* do not use the sg suffixes *ga gɔ*:

| | | | |
|--------------------------------|------------------|-----------------|-----------------|
| <i>bōn-tólgìr</i> ^ε | <i>bōn-tólgà</i> | | "heating thing" |
| <i>ñwī-tékìr</i> ^ε | <i>ñwī-tékà</i> | <i>ñwī-ték-</i> | "pulling-rope" |
| <i>bōn-súηìr</i> ^ε | <i>bōn-súηà</i> | | "helpful thing" |

Adjectives derived from 4-mora stem verbs in *-m* in KT's speech take *ga* or *gɔ* sg and *aa* pl; they may drop the *-m-* in the plural:

| | | |
|---------------------------------|---------------------|------------------|
| <i>nīn-pú'alìη</i> ^a | <i>nīn-pú'alimà</i> | "harmful person" |
| <i>nīn-záaňsùη</i> ^ɔ | <i>nīn-záaňsà</i> | "dreamy person" |

Some adjectives simply belong to a single noun class even though this cannot be accounted for by the stem-suffix incompatibilities outlined above:

| | | | |
|-----------------------------|---------------------------------|-----------------|-------------------|
| <i>vōr</i> ^{ε/} | <i>vōyá</i> | <i>vōr-</i> | "alive" |
| <i>dāvɔg</i> ^ɔ | <i>dāad</i> ^ε | <i>dà-</i> | "male" |
| <i>tōɔg</i> ^ɔ | <i>tōɔd</i> ^ε | <i>tò-</i> | "bitter" |
| <i>pūāk</i> ^a | <i>pō'as</i> ^ε | <i>pū'à-</i> | "female" (human) |
| <i>ňyá'aη</i> ^a | <i>ňyá'as</i> ^ε | <i>ňyā'aη-</i> | "female" (animal) |
| | or <i>ňyā'amís</i> ^ε | | |
| <i>ňyèesíη</i> ^a | <i>ňyèensís</i> ^ε | <i>ňyèesíη-</i> | "self-confident" |

and similarly *vèňllíη*^a "beautiful" *māhsíη*^a "pleasant" *lāllíη*^a "distant."

| | | | |
|-------------------------|---------------------------|---------------------------|----------|
| <i>bīl</i> ^a | <i>bībīs</i> ^ε | <i>bìl-</i> or <i>bì-</i> | "little" |
|-------------------------|---------------------------|---------------------------|----------|

The sg flexion *-la* is found more widely in other Western Oti-Volta languages, where it has a diminutive sense: thus Farefare *níílá* "chick", *pìlà* "lamb", *bùdíblá* "boy", *púglá* "girl", *kíílá* "young guinea fowl"; Mooré *bìríblá* "boy", *bìpúglá* "girl", *bùllá* "kid." The plural stem *bib-* is reduplicated.

7 Verb flexion

Though written solid with the verb in traditional orthography, discontinuous-past n^ε and the 2pl subject $^{y^a}$ are not flexions but liaison enclitics [4.2](#).

7.1 Dual-aspect

Some 90% of verbs are dynamic [16.2](#) **dual-aspect** verbs, using the stem form for perfective aspect and adding *-da* for imperfective. Synchronically, *-da* is simply a flexion, but historically this probably represents thoroughgoing levelling of a formation with a *derivational* suffix **d* preceding the same imperfective flexion *-a* as appears in single-aspect verbs. A suffix *-ma* marks imperative mood whenever the verb carries the independency-marking tone overlay [16.6.2](#).

Perfective, imperfective and *-ma* imperative are cited in order.

Straightforward examples include:

| | | | |
|---------------------------|-----------------------------|----------------------------|-------------------|
| <i>kō</i> | <i>kōvd^{a/}</i> | <i>kòvm^a</i> | "kill" |
| <i>kpěñ'</i> | <i>kpěñ'ed^a</i> | <i>kpěñ'em^a</i> | "enter" |
| <i>kìà</i> | <i>kìəd^a</i> | <i>kìəm^a</i> | "cut" |
| <i>kūā</i> | <i>kūəd^{a/}</i> | <i>kùəm^a</i> | "hoe" |
| <i>gòñ</i> | <i>gòñd^a</i> | <i>gòñm^a</i> | "hunt" |
| <i>dōg^ε</i> | <i>dōgōd^{a/}</i> | <i>dògòm^a</i> | "cook" |
| <i>yùug^ε</i> | <i>yùugd^a</i> | <i>yùugìm^a</i> | "delay, get late" |
| <i>yādīg^{ε/}</i> | <i>yādīgíd^a</i> | <i>yādīgìm^a</i> | "scatter" |
| <i>pìāñ'^a</i> | <i>pìāñ'ad^{a/}</i> | <i>pìāñ'am^a</i> | "speak; praise" |
| <i>dū'à^a</i> | <i>dù'ad^a</i> | <i>dù'am^a</i> | "bear, beget" |
| <i>nōk^{ε/}</i> | <i>nōkíd^a</i> | <i>nòkìm^a</i> | "take" |
| <i>gāη^{ε/}</i> | <i>gāηíd^a</i> | <i>gàηìm^a</i> | "choose" |
| <i>kpàr^ε</i> | <i>kpàríd^a</i> | <i>kpàrìm^a</i> | "lock" |
| <i>sūgūr^{ε/}</i> | <i>sūgūríd^a</i> | <i>sùgūrìm^a</i> | "forgive" |
| <i>bàs^ε</i> | <i>bàsíd^a</i> | <i>bàsìm^a</i> | "go/send away" |
| <i>sīgīs^{ε/}</i> | <i>sīgīsíd^a</i> | <i>sìgīsìm^a</i> | "lower" |
| <i>kōt^{ε/}</i> | <i>kōtíd^a</i> | <i>kòtìm^a</i> | "slaughter" |

Some root-stems ending in a vowel show a CV- allomorph in both imperfective and imperative, with *-t-* for *-d-* [3.4](#):

| | | | |
|------------|--------------------------|-------------------------|-------|
| <i>dì</i> | <i>dít^a</i> | <i>dìm^a</i> | "eat" |
| <i>ñyē</i> | <i>ñyēt^{a/}</i> | <i>ñyèm^a</i> | "see" |

and likewise *lì/lù* "fall", *dō* "go up", *yī* "go/come out", *zò* "run, fear."

Stems in *-d-* show *-t-* in the ipfv via **dd* → *tt*:

| | | | |
|--------------------------|------------------------------------|----------------------------|-----------------|
| <i>bòd</i> ^ε | <i>bòt</i> ^a | <i>bòdìm</i> ^a | "plant" |
| <i>gàad</i> ^ε | <i>gàt</i> ^a <u>2.2</u> | <i>gàadìm</i> ^a | "pass, surpass" |

Stems in *l* generate a cluster in the ipfv via **ld* → *nn* 3.5:

| | | | |
|----------------------------|----------------------------|-----------------------------|-------------------|
| <i>vòl</i> ^ε | <i>vòn</i> ^{na/} | <i>vòlìm</i> ^a | "swallow" |
| <i>màal</i> ^ε | <i>màan</i> ^{na} | <i>màalìm</i> ^a | "make; sacrifice" |
| <i>dīgīl</i> ^{ε/} | <i>dīgín</i> ^{na} | <i>dīgīlìm</i> ^a | "lay down" |

Only 2-mora *b*-stems assimilate **bm* → *mm*:

| | | | |
|---------------------------|----------------------------|----------------------------|--------------------|
| <i>lèb</i> ^ε | <i>lèbìd</i> ^a | <i>lèm</i> ^{ma} | "return" |
| <i>sòb</i> ^ε | <i>sòbìd</i> ^{a/} | <i>sòm</i> ^{ma} | "write" |
| <i>lìəb</i> ^ε | <i>lìəbìd</i> ^a | <i>lìəbìm</i> ^a | "become" |
| <i>ēēñb</i> ^{ε/} | <i>ēēñbìd</i> ^a | <i>ēēñbìm</i> ^a | "lay a foundation" |

Only 2-mora *n*-stems show **nd* → *nn*; only *kēŋ*^{ε/} (below) shows **nm* → *mm*:

| | | | |
|---------------------------|-----------------------------|-----------------------------|-----------------|
| <i>bùn</i> ^ε | <i>bùn</i> ^{na} | <i>bùnìm</i> ^a | "reap" |
| <i>mōn</i> ^ε | <i>mōn</i> ^{na/} | <i>mònìm</i> ^a | "make porridge" |
| <i>gò'ɔn</i> ^ε | <i>gò'ɔnìd</i> ^a | <i>gò'ɔnìm</i> ^a | "extend neck" |
| <i>dìgìn</i> ^ε | <i>dìgìnìd</i> ^a | <i>dìgìnìm</i> ^a | "lie down" |

The *nn*-stem *sùn*^ε does not assimilate at all:

| | | | |
|--------------------------|----------------------------|----------------------------|------------|
| <i>sùn</i> ^{ne} | <i>sùnnìd</i> ^a | <i>sùnnìm</i> ^a | "bow head" |
|--------------------------|----------------------------|----------------------------|------------|

4-mora *m*-stems always assimilate **md* → *mn*, *mm*, while 3-mora *m*-stems assimilate optionally; 2-mora stems regularly assimilate, but the NT/KB sometimes have unassimilated forms to avoid ambiguity 3.5.

| | | | |
|---------------------------|---|----------------------------|--------------------|
| <i>sìlìm</i> ^m | <i>sìlìm</i> ^{ma} | <i>sìlìm</i> ^{ma} | "quote proverbs" |
| <i>lāŋím</i> ^m | <i>lāŋím</i> ^{ma} | <i>lāŋìm</i> ^{ma} | "wander searching" |
| <i>kàrìm</i> ^m | <i>kàrìm</i> ^{m/kàrımìd^a} | <i>kàrìm</i> ^{ma} | "read" |
| <i>tōɔm</i> ^{m/} | <i>tōɔm</i> ^{ma/tōɔmìd^a} | <i>tōɔm</i> ^{ma} | "depart" |
| <i>tùm</i> ^m | <i>tùm</i> ^{ma} | <i>tùm</i> ^{ma} | "work" |

Like *tùm*^m are *wùm*^m "hear", *kìm*^m "tend a flock or herd", *dùm*^m "bite."

Stems in *-mm-* only assimilate in the imperative:

| | | | |
|------------------------|---------------------------|-------------------------|----------|
| <i>tàm^m</i> | <i>tàmmìd^a</i> | <i>tàm^{ma}</i> | "forget" |
|------------------------|---------------------------|-------------------------|----------|

Like *tàm^m* are *zàm^m* "cheat, betray", *dàm^m* "shake", *lèm^m* "sip, taste"; the cognate Mooré verbs have *-mb-*: *zǎmbe* "cheat", *rǎmbe* "stir", *lèmbé* "taste".

Fusion verbs show deleted **g* after *aa iə uə aañ eñ ɔñ* 3.7. **G*-deletion appears only in the perfective and gerund; elsewhere **g* is absent, not deleted (for the tonal implications see 3.8.2.) For the perfective forms before liaison see see 4.2.

| | | | |
|--------------------------|----------------------------|---------------------------|----------------|
| <i>fāeñ^l</i> | <i>fāañd^{a/}</i> | <i>fàañm^a</i> | "save" |
| <i>dī'e^l</i> | <i>dī'əd^{a/}</i> | <i>dì'əm^a</i> | "get, receive" |
| <i>dūe^l</i> | <i>dūəd^{a/}</i> | <i>dùəm^a</i> | "rise, raise" |
| <i>pūñ'e^l</i> | <i>pūñ'əd^{a/}</i> | <i>pùñ'əm^a</i> | "rot" WK |

Irregular dual-aspect verbs are few. Only two are irregular in the actual flexional suffixes taken:

| | | | |
|------------|-------------------------|------------------------|--------------|
| <i>kē</i> | <i>kēt^{a/}</i> | <i>kèl^a</i> | "let, allow" |
| <i>kēñ</i> | <i>kēn^{a/}</i> | <i>kèm^a</i> | "come" |

All others show a derivational suffix in the perfective which is dropped in the imperfective. This suggests a survival of older patterns: outside the Western group, Oti-Volta languages often drop perfective suffixes when forming imperfectives. Nawdm has a regular conjugation which drops pfv *g* in the ipfv, e.g. *jehl̩g* pfv "poser verticalement", *jehl̩a* ipfv.

| | | | |
|---------------------------|-----------------------------|----------------------------|---------------|
| <i>wìk^ε</i> | <i>wìid^a</i> 3.4 | <i>wìkìm^a</i> | "fetch water" |
| <i>jāñk^{ε/}</i> | <i>jāñ'ad^{a/}</i> | <i>jāñkìm^a</i> | "leap, fly" |
| <i>gīl̩g^{ε/}</i> | <i>gīn^{na/}</i> | <i>gīl̩gìm^a</i> | "go around" |
| <i>kēŋ^{ε/}</i> | <i>kēn^{na/}</i> | <i>kèm^a</i> | "go" |
| <i>yèl^ε</i> | <i>yèt^a</i> | <i>yèlìm^a</i> | "say" |
| <i>gōs^ε</i> | <i>gōsìd^{a/}</i> | <i>gòsìm^a</i> | "look" |
| | or <i>gōt^{a/}</i> | <i>gòm^a</i> | |
| <i>tìs^ε</i> | <i>tìsìd^a</i> | <i>tìsìm^a</i> | "give" |
| | or <i>tìt^a</i> | | |

A perfective *tì* may appear before bound object pronouns, e.g. *tì=f* "give you."

7.2 Single-aspect

The remaining 10% of verbs are **single-aspect**, with just one finite form, which is always imperfective. Each single-aspect verb is either **dynamic**, behaving like the imperfective of a dual-aspect verb, or **stative** 16.2; transitive stative verbs typically express relationships, while intransitives have predicative adjectival meanings.

Morphologically, there are three major groups of single-aspect verbs; the morphological division correlates only to a limited extent with meaning.

Six stative single-aspect verbs consist of bare stems alone:

| | | | |
|--------------|-----------------------|------------------------|-----------------------------|
| <i>mī'</i> | "know" | <i>zī'</i> | "not know" |
| <i>bè</i> | "be somewhere, exist" | <i>kā'ɛ</i> | "not be" (← * <i>kagɪ</i>) |
| <i>tūñ'e</i> | "be able" 19.1 | <i>nòŋ^ɛ</i> | "love" |

Uniquely among single-aspect verbs, *nòŋ^ɛ* has a *ma*-imperative *nòŋìm^a*, used when the verb word carries the tone overlay of independency marking. Unlike perfectives, these forms are never followed by particle *yā* 16.6.2. The Pattern A verbs *bè* and *nòŋ^ɛ* have M tone before liaison-word pronouns and are followed by M spreading even when not subject to the tone overlay of independency marking 4.4.

| | | |
|-----|-------------------|---|
| | <i>M nóŋ.</i> | "I love him." (e.g. in reply to a question) |
| not | * <i>M nóŋ yā</i> | specifically stated to be impossible by WK |

Mit ka Zugsob tumtum a one noŋ zaba.

Mìt kà Zūg-sób túm-tūm á ónì nòŋ zábāa=ø.

NEG.LET.IMP and Lord worker:SG COP REL.AN love conflict:PL=NEG.

"Let not a servant of the Lord be someone who loves fights." (2 Tim 2:24, 1996)

Kà ò nóŋī=f. "And she loves you."

The agent noun *nòŋìd^a* has Pattern L instead of the expected A:

Ò nòŋìd kā'e. "There's nobody who loves him." WK

The majority of single-aspect verbs have the suffix *-*ya*. Nawdm has many imperfective-only verbs of parallel structure, like *jehra* ipfv "être debout" = Kusaal *zì'e^{y^a}*, where Nawdm *r* and Kusaal *y* both represent Proto-Oti-Volta **r*. With only one aspect, these verbs have not undergone the extensive levelling which has made dual-aspect -*da* into a unitary flexion. In particular, when **y* has assimilated to a preceding root-final consonant, resulting in *nn mm ll* or *r(r)*, the cluster is carried over into deverbal nominals, or introduced by analogy into cognate adjectives even when the

adjectives are primary. The cluster *nn* then behaves exactly like *nn* derived from **nd*, but *ll r(r)* are subject to further assimilation just like single *l r* 3.5.

Dynamic verbs with unassimilated *y* mostly express **stances**:

| | | | |
|------------------------------|----------------------|---------------------------|-----------------------|
| <i>īgī^{ya/}</i> | "be kneeling" | <i>dīgī^{ya/}</i> | "be lying down" |
| <i>vābī^{ya/}</i> | "be prone" | <i>lābī^{ya}</i> | "crouch in hiding" |
| <i>tābī^{ya}</i> | "be stuck to" | <i>zī'e^{ya}</i> | "be standing still" |
| <i>zīñ'i^{ya}</i> | "be sitting" | <i>tī'i^{ya/}</i> | "be leaning (object)" |
| <i>gō'e^{ya/}</i> WK | "have neck extended" | <i>wà'e^{ya}</i> | "travel to" |

Statives include transitive and intransitive types:

| | | | |
|---------------------------|------------------------|----------------------------|------------------|
| <i>àgñ^{ya}</i> | "be something/somehow" | | |
| <i>sō'e^{ya/}</i> | "own" | <i>sōñ'e^{ya/}</i> | "be better than" |
| <i>tōg^{ya/}</i> | "be bitter" | <i>vōg^{ya/}</i> | "be alive" |

Stance verbs with unassimilated *y* have derived inchoative and causative dual-aspect verbs in *n* and *l* 9.1.1. They make perfective gerunds, and have agent nouns, deverbal adjectives and instrument nouns with the formant *d* like dual-aspect verbs. Some informants inflect these verbs with the ipfv suffix *-da* to express *habitual* meaning; others use the ipfv of the derived assume-stance verb instead:

| | | |
|-----|------------------------|--|
| | <i>Ò zīñ'i nē.</i> | "She's sitting down." WK KT |
| | <i>Ò pō zīñ'idā.</i> | "She doesn't sit down" WK |
| but | <i>Ò pō zīñ'inìdā.</i> | "She doesn't sit down." KT |
| | <i>Ò vābì nē.</i> | "He's lying prone." |
| | <i>Ò pō vābídá.</i> | "He doesn't lie prone." WK |
| but | <i>Ò pō vābìnìdā.</i> | "He doesn't lie prone." KT |
| | <i>Ò dīgì nē.</i> | "She's lying down." |
| | <i>Ò pō dīgídá.</i> | "She doesn't lie down" WK |
| | <i>Lì zī'ə nē.</i> | "It's standing up." |
| | <i>Lì pō zī'ədā.</i> | "It (a defective tripod) doesn't stand up." WK |
| | <i>Lì tī'i nē.</i> | "It's leaning against something." |
| | <i>Lì tī'id.</i> | "It can be leant against something." WK |
| | <i>Lì pō tī'iyá.</i> | "It's not leaning against something." |
| | <i>Lì pō tī'idá.</i> | "It's not for leaning against something." WK |

Dynamic single-aspect verbs in *nn mm ll r(r)* include stance verbs and others:

| | | | |
|---------------------------|-------------------|------------------------------|------------------------|
| <i>sīn</i> ^{na/} | "be silent" | <i>dēl</i> ^{la/} | "be leaning (person)" |
| <i>gùl</i> ^{la} | "be hanging" | <i>gōl</i> ^{la/} KT | "have neck extended" |
| <i>dōl</i> ^{la/} | "accompany" | <i>zāñl</i> ^{la/} | "carry in one's hands" |
| <i>gūr</i> ^{a/} | "guard" | <i>tēñr</i> ^a | "remember" |
| <i>sūr</i> ^a | "have head bowed" | <i>gōr</i> ^{a/} DK | "have neck extended" |

They make imperfective gerunds; in these and in agent nouns, deverbal adjectives and instrument nouns, the stem is in *nn mm ll r(r)* and *d* is omitted. Similarly, they do not have distinct continuous, habitual or inchoative forms.

Stative verbs in *nn mm ll r(r)* again include transitive and intransitive types:

| | | | |
|-----------------------------|-----------------|------------------------------|-----------------|
| <i>nēn</i> ^{na/} | "envy" | <i>vēn</i> ^{na} | "be beautiful" |
| <i>wēn</i> ^{na/} | "resemble" | <i>kpī'əm</i> ^{ma/} | "be strong" |
| <i>kpēñm</i> ^{ma/} | "be older than" | <i>zùlīm</i> ^{ma} | "be deep" |
| <i>sùm</i> ^{ma} | "be good" | <i>gīm</i> ^{ma/} | "be short" |
| <i>yàlīm</i> ^{ma} | "be wide" | <i>zēm</i> ^{ma/} | "be equal to" |
| <i>tàdīm</i> ^{ma} | "be weak" | <i>wā'am</i> ^{ma/} | "be long, tall" |
| <i>vēñl</i> ^{la} | "be beautiful" | <i>lāl</i> ^{la/} | "be far from" |
| <i>tōl</i> ^{la/} | "be hot" | <i>mōr</i> ^{a/} | "have" |
| <i>tār</i> ^{a/} | "have" | <i>dūr</i> ^a | "be many" |
| <i>kār</i> ^a | "be few" | <i>nār</i> ^{a/} | "be necessary" |
| <i>pòñr</i> ^a | "be near to" | | |

M-stems show single *m* in most sources after after epenthetic vowels and long root vowels 3.5.

A number of stative verbs end in *-sa*:

| | | | |
|----------------------------|---------------------|----------------------------|------------|
| <i>mì'is</i> ^a | "be sour" | <i>bōgōs</i> ^{a/} | "be soft" |
| <i>mā'as</i> ^{a/} | "be cool" | <i>tēbīs</i> ^{a/} | "be heavy" |
| <i>mālīs</i> ^{a/} | "be sweet" | <i>lābīs</i> ^{a/} | "be wide" |
| <i>ñyēs</i> ^a | "be self-confident" | <i>kīs</i> ^{a/} | "hate" |

The *s* of these forms is a derivational suffix producing stative forms.

There is one intransitive stative verb in *-da*: *pòçd*^a "be few, small."

Some dual-aspect-verb imperfective forms have become independent stative verbs, e.g. *bòçd*^a "want, like" (*bò* "seek"), *zòt*^a "fear" (*zò* "run.")

8 Stem conversion

8.1 Nouns from verbs

8.1.1 Perfective gerunds

Almost all verbs other than intransitive statives can form a **gerund**, a derived abstract noun which expresses the process, event or state described by the verb.

Gerunds from dual-aspect and many dynamic single-aspect verbs are formed by adding noun class suffixes to the verb stem. For gerund Tone Patterns see [3.8.4](#).

Gerunds may be used as abstract *count* nouns describing particular instances of the activity of the verb, and may then have plurals [12.2](#).

Dual-aspect verbs form gerunds by adding the following class suffixes to the stem. 3-mora stems ending in underlying **g* replace the *-gɔ* suffix with *-rɛ*.

| | |
|--|---|
| 2-mora stems | <i>-bɔ</i> but <i>-rɛ</i> as final part of a compound |
| 3-mora stems in * <i>g</i> | |
| [surface <i>-g^ɛ -k^ɛ -ŋ^ɛ -ae -ie -ue</i>] | <i>-rɛ</i> |
| all others | <i>-gɔ</i> |

| | | |
|-------------------------|---------------------|---------------------------|
| <i>kṽ</i> | "kill" | <i>kṽb^ɔ</i> |
| <i>dṽg^ɛ</i> | "cook" | <i>dṽgṽb^ɔ</i> |
| <i>dṽ'á^a</i> | "bear, beget" | <i>dṽ'ab^ɔ</i> |
| <i>kàd^ɛ</i> | "drive away" | <i>kādīb^ɔ</i> |
| <i>pìl^ɛ</i> | "cover" | <i>pīlīb^ɔ</i> |
| <i>kpàr^ɛ</i> | "lock" | <i>kpārīb^ɔ</i> |
| <i>bàs^ɛ</i> | "abandon, go away" | <i>bāsīb^ɔ</i> |
| <i>sṽb^ɛ</i> | "write" | <i>sṽp^ɔ</i> |
| <i>lṽb^ɛ</i> | "throw stones at" | <i>lṽp^ɔ</i> |
| <i>kìm^m</i> | "tend a flock/herd" | <i>kīm^{mɔ}</i> |
| <i>wṽm^m</i> | "hear" | <i>wṽm^{mɔ}</i> |

2-mora *n*-stems do not assimilate **nb* → *mm*: *bùn^ɛ* "reap", gerund *būnīb^ɔ*.

| | | |
|-------------------------|---------|----------------------------|
| <i>yùug^ɛ</i> | "delay" | <i>yùugṽr^ɛ</i> |
| <i>nṽk^ɛ</i> | "take" | <i>nṽkír^ɛ</i> |
| <i>nìŋ^ɛ</i> | "doing" | <i>nìŋìr^ɛ</i> |
| <i>gbāñ'e'</i> | "grab" | <i>gbáñ'ar^ɛ</i> |
| <i>dī'e'</i> | "get" | <i>dī'ər^ɛ</i> |
| <i>dūe'</i> | "rise" | <i>dúər^ɛ</i> |

| | | |
|----------------------------|-------------|---|
| <i>gàad</i> ^ε | "(sur)pass" | <i>gàadùg</i> ^o |
| <i>lìəb</i> ^ε | "become" | <i>lìəbùg</i> ^o |
| <i>dīgīl</i> ^{ε/} | "lay down" | <i>dīgílúg</i> ^o |
| <i>yāar</i> ^{ε/} | "scatter" | <i>yāarúg</i> ^o |
| <i>sīgīs</i> ^{ε/} | "lower" | <i>sīgísúg</i> ^o |
| <i>dàm</i> ^m | "shake" | <i>dàmmùg</i> ^o (and thus with all <i>mm</i> -stems) |

3-mora *n*-stems never assimilate **ng* → *ηη*:

| | | |
|----------------------------|------------|------------------------------|
| <i>dìgin</i> ^ε | "lie down" | <i>dìginùg</i> ^o |
| <i>zìñ'in</i> ^ε | "sit down" | <i>zìñ'inùg</i> ^o |

3-mora *m*-stems assimilate **mg* → *ηη* optionally:

| | | | |
|----------------------------|---------------------|----------------------------|---------------------------------|
| <i>tōom</i> ^{m/} | "depart, disappear" | <i>tóωη</i> ^o | or <i>tōomúg</i> ^o |
| <i>sàñ'am</i> ^m | "destroy" | <i>sàñ'υη</i> ^o | or <i>sàñ'amùg</i> ^o |
| <i>kàrìm</i> ^m | "read" | <i>kàrùη</i> ^o | or <i>kàrìmùg</i> ^o |

4-mora stems in *-sim -lim* follow the rule and use *-gō* (always assimilating), but stems in **-gim* drop the *-m-* and use *-rε*:

| | | |
|-----------------------------|-----------------|-----------------------------|
| <i>sìlìm</i> ^m | "cite proverbs" | <i>sìlúη</i> ^o |
| <i>zàaṅsìm</i> ^m | "dream" | <i>zàaṅsúη</i> ^o |
| <i>wàṅìm</i> ^m | "waste away" | <i>wàṅìr</i> ^ε |
| <i>lāṅìm</i> ^m | "wander" | <i>lāṅír</i> ^ε |
| <i>zàkìm</i> ^m | "itch" | <i>zàkìr</i> ^ε |

2-mora stems regularly use *-rε* instead of *-bō* in compounds:

| | | | |
|-------------------------------|--------------------|------------------------------|--------------|
| <i>pū'à-dīur</i> ^ε | "marriage" | <i>nīn-kôur</i> ^ε | "murder" |
| <i>dā-nūur</i> ^ε | "beer-drinking" | <i>mò-pīl</i> ^{lε} | "grass roof" |
| <i>fū-yêur</i> ^ε | "shirt-wearing" WK | | |

Irregular gerunds are rare with stems of three or four morae. A few are formally plural 12.2, and *yīs*^{ε/} "make go/come out" has *yīsíb*^o. Most irregular 2-mora stem verbs have regular gerunds, e.g. *tis*^ε "give" → *tisīb*^o, *kē* "let" → *kēeb*^{o/}, *gùl*^ε "suspend" → *gùlīb*^o. However, almost 20% of 2-mora-stem verbs in KED use suffixes other than *bō*; many of these have stems ending in *m* or *b*. Most irregular gerunds are tonally regular, but forms with *-gō* from Pattern A verbs are Pattern L unless variants with *ga* or *sε* show that the word is *ga|sε* with LF remodelling 5.3.2.

| | | |
|--------------------------|-----------------------|---|
| <i>lì</i> | "fall" | <i>līg^a</i> |
| <i>zī</i> | "carry on head" | <i>zīid^{ε/}</i> |
| <i>bēñ'</i> | "fall ill" | <i>bēñ'εs^ε</i> |
| <i>kēñ</i> | "come" | <i>kēñ^{nε/}</i> |
| <i>zò</i> | "run" | <i>zūa</i> also <i>zōōg^o</i> |
| <i>vū</i> | "make noise" | <i>vūug^{o/}</i> |
| <i>piāñ^{ta}</i> | "speak" | <i>piàñk^o</i> |
| <i>bòd^ε</i> | "plant" | <i>bōdīg^a</i> also <i>bōdōg^o</i> |
| <i>yèl^ε</i> | "say, tell" | <i>yèlōg^o</i> (cf Mooré <i>yèele</i>) |
| <i>kūl^ε</i> | "go home" | <i>kūlīg^{a/}</i> also <i>kūlōg^{o/}</i> |
| <i>tāñs^ε</i> | "shout" | <i>tāñsòg^o</i> |
| <i>sōñs^ε</i> | "converse" | <i>sōñsìg^a</i> |
| <i>gōs^ε</i> | "look" | <i>gōsìg^a</i> |
| <i>sòs^ε</i> | "pray, beg" | <i>sōsīg^a</i> |
| <i>kīr^ε</i> | "hurry" | <i>kìkíròg^o</i> or <i>kīrīb^{o/}</i> |
| <i>lèb^ε</i> | "return" | <i>lēbīg^a</i> |
| <i>tèb^ε</i> | "carry in both hands" | <i>tēbīg^a</i> |
| <i>kāñb^ε</i> | "scorch" | <i>kāñbīr^ε</i> |
| <i>òñb^ε</i> | "chew" | <i>òñbīr^ε</i> |
| <i>lūb^ε</i> | "buck" | <i>lūbīr^{ε/}</i> |
| <i>zàb^ε</i> | "fight" | <i>zàbīr^ε</i> |
| <i>tèñb^ε</i> | "tremble" | <i>tèñbòg^o</i> |
| <i>tòm^m</i> | "work" | <i>tōvmā</i> |
| <i>tòm^m</i> | "send" | <i>tìtōmīs^ε</i> |
| <i>wòm^m</i> | "hear" | <i>wōm^{mo}</i> or <i>wòmmòg^o</i> <u>9.2.1.4</u> |

Dynamic single-aspect verbs in *-ya* where the *y* is not assimilated form perfective gerunds from the root using various noun classes:

| | | |
|---------------------------|------------------|---|
| <i>zìñ'i^{ya}</i> | "be sitting" | <i>zīñ'ig^a</i> also "place", regular <i>ga se</i> class |
| <i>zì'e^{ya}</i> | "be standing" | <i>zī'a</i> KED <i>zī'og^a</i> (very irreg <u>3.7</u>) DK KT |
| <i>dīgī^{ya/}</i> | "be lying" | <i>dīk^{a/}</i> KT <i>dīgīr^{ε/}</i> WK |
| <i>īgī^{ya/}</i> | "be kneeling" | <i>īk^{a/}</i> KT <i>īgīr^{ε/}</i> WK |
| <i>vābī^{ya/}</i> | "be lying prone" | <i>vāp^{o/}</i> KT <i>vābīr^{ε/}</i> WK |
| <i>tī'i^{ya/}</i> | "be leaning" | <i>tī'ib^{o/}</i> (of an object) |

Gùl^{la} "be hanging" uses *gōlīb^o* from dual-aspect *gùl^ε*. *Tèñr^a* "remember" and the stative *pōñr^a* "be near" have *tēñrīb^o* *pōñrīb^o* by analogy with dual-aspect verbs following the simplification **rr → r*. Stative *kīs^{a/}* "hate" has the gerund *kīsòg^o*.

Other single-aspect verbs have imperfective gerunds 9.2.1.4.

8.1.2 Concrete nouns

When there is a perfective gerund with regular noun class membership, other nouns with the same stem but different class suffixes have **concrete** senses, such as the product of the action, instrument used, or place at which the action occurs.

| | | | |
|------------------------------|-------------------------|----------------------------|-----------------------------|
| <i>ēēñbír^ε</i> | "(physical) foundation" | <i>ēēñbúg^o</i> | "laying a foundation" |
| <i>dōk^o/</i> | "cooking pot" | <i>dōgōb^o/</i> | "cooking" |
| <i>dà'a</i> | "market" | <i>dā'ab^o</i> | "buying" |
| <i>kōk^a</i> | "chair" | <i>kōgōb^o</i> | "resting on something" |
| <i>zūg-kōgūr^ε</i> | "pillow" | | |
| <i>sūāk^a/</i> | "hiding place" | <i>sū'ab^o/</i> | "hiding" |
| <i>sōbīr^ε/</i> | "piece of writing" | <i>sōp^o/</i> | "writing, orthography" |
| <i>kūt^ε</i> | "iron, nail" | <i>kūdōb^o</i> | "working iron" |
| <i>kùəsìm^m</i> | "merchandise" | <i>kùəsòg^o</i> | "selling" |
| <i>pèbìsìm^m</i> | "wind" | <i>pèbìsòg^o</i> | "blowing of the wind; wind" |

Vābīr^ε/ lābīr^ε/ dīgīr^ε/ īgīr^ε/, used by WK as gerunds, are used by KT as concrete nouns meaning "place for lying prone" etc, contrasting with the gerunds *vāp^o/* etc.

From *pībìl^ε* "cover", *zāñbìl^ε* "tattoo", *màal^ε* "sacrifice" are derived

| | | | |
|----------------------------|----------------|----------------|----------------------|
| <i>pībīn^{nε}</i> | <i>pībīnā</i> | <i>pībìn-</i> | "covering" |
| <i>zāñbīn^{nε}</i> | <i>zāñbīnā</i> | <i>zāñbìn-</i> | "tattoo" (NT "sign") |
| <i>māan^{nε}</i> | <i>māanā</i> | <i>māan-</i> | "sacrifice" |

The *-n* in these words is simplified from **nn* 3.5. Toende and Mooré have Pattern L instead of A: *zābín*, *māan*. The **nn* may represent **ld*, with **d* in instrument-noun sense: cf *tūōdīr^ε* "mortar", from *tūà* "grind in a mortar."

It is exceptional for regularly formed gerunds to acquire concrete meaning, but a clearcut example is *dīib^o* "food."

8.2 Nominals from nominals

The partial association of noun class and meaning 5.1 can be exploited to change the meaning of a stem. Examples include the names of ethnic groups, which belong to the *a|ba* or *ga|se* classes, their languages, which belong to the *-lε* subclass of *rε|aa* 5.3.4 and the associated place, which has the suffix *-gɔ* 26.4. Another case of sg *-gɔ* deriving an associated place name is *wèed^a* "hunter", *wèog^o* "deep bush."

Names of trees are almost all *ga|se* class, and their fruits *rε|aa* or *gɔ|de* 26.5.

Note also *sīiñf^o/* "bee", *sīiñd^ε/* "honey."

The strong association of the *mm* class with abstracts can be used to convert adjective stems to abstract nouns. These nouns somewhat resemble gerunds, and can

9 Derivation by suffixes

In 3.3 all roots are stated to be $CV(V)(C)$, implying that any stem consonant not immediately following the root vowel is not part of the root, and neither is any consonant following a *long* root vowel unless the root shows $CVC\sim CVVC$ allomorphy.

All such stem consonants will be called "derivational suffixes." Very productive suffixing processes derive agent nouns, adjectives and instrument nouns from verbs, and several less systematic processes derive nominals from other nominals. Stem comparison can identify many suffixes deriving verbs from roots, though correlations of suffix and meaning are only partial. For Tone Patterns in derivation see 3.8.4.

Derivational suffixes are $g s n l d m$, along with b and r in just a handful of words; n may represent historical $*ld$ 3.5. $G s n b r$ never follow another suffix, and l follows another suffix only as part of the combination lm . D is very productive in the formation of deverbal nominals; it often deletes a preceding suffix or is itself deleted.

No stem has more than three derivational suffixes, or more than five morae apart from prefixes. All four-mora verb stems have m as the second suffix, and all five-mora stems are formed with lm .

9.1 Verbs

All verb derivation is by suffixes, probably always added to roots. Clear meanings are often seen, but there is no straightforward match with form.

Possible verb shapes are very constrained. Only two, three and four-mora stems occur. All four-mora stems end in m , and in dual-aspect verbs $CVVCm$ only occurs as CVV root + sim or lm , never $CVVC$ root + m .

9.1.1 From verbs

$-n$ derives dual-aspect **assume-stance** verbs from stance verbs, which also have corresponding derivatives in $-l$ for "make assume the stance"; all the $-n$ verbs are Pattern A regardless, but the $-l$ verbs have the same Pattern as the base stance verb.

Nawdm has exactly parallel formations, e.g. *jehra* ipfv "être debout", *jehnt* pfv "se mettre debout", *jehlg* pfv, *jehla* ipfv "poser verticalement".

Some stance verbs correspond instead to a simplex dual-aspect verb for "assume the stance", and $d\bar{e}l^{la/}$ "be leaning" (of a person) has the idiosyncratic assume-stance derivative $d\bar{e}lim^m$. Some $-n$ and $-l$ derivatives lack a corresponding stance verb: thus "be perching" is expressed with the resultative perfective of $z\bar{u}e$:

Nḥiṅ lā zúə nē.
Bird:SG ART perch FOC.

"The bird is perching." KT

| Stance verb | | Assume-stance | Make-assume-stance |
|---------------------------|-------------------------|---------------------------|-----------------------------|
| <i>dīgī^{ya/}</i> | "be lying" | <i>dìgìn^ε</i> | <i>dīgīl^{ε/}</i> |
| <i>vābī^{ya/}</i> | "be lying prone" | <i>vàbìn^ε</i> | <i>vābīl^{ε/}</i> |
| <i>īgī^{ya/}</i> | "be kneeling" | <i>ìgìn^ε</i> | <i>īgīl^{ε/}</i> |
| <i>làbì^{ya}</i> | "be crouching hidden" | <i>làbìn^ε</i> | <i>làbìl^ε</i> |
| <i>zìñ'ì^{ya}</i> | "be sitting" | <i>zìñ'in^ε</i> | <i>zìñ'il^ε</i> |
| <i>zì'e^{ya}</i> | "be standing" | <i>zì'ən^ε</i> | <i>zì'əl^ε</i> |
| <i>tī'ì^{ya/}</i> | "be leaning" (of thing) | <i>tì'in^ε</i> | <i>tī'il^{ε/}</i> |
| <i>gō'e^{ya/}</i> | "be looking up" WK | <i>gò'ɔn^ε</i> | |
| <i>sùr^a</i> | "have bowed head" | <i>sùn^{nε}</i> | <i>sùn^{nε} sic</i> |
| - | "cover oneself" | <i>lìgìn^ε</i> | <i>lìgìl^ε</i> |
| - | "perch" (of bird) | <i>zùən^ε</i> | <i>zùəl^ε</i> |
| - | "perch" (of bird) | <i>yà'an^ε</i> | <i>yà'al^ε</i> |
| <i>gùl^{la}</i> | "be suspended" | <i>gùl^ε</i> | <i>gùl^ε</i> |
| <i>tàbì^{ya}</i> | "be stuck to" | <i>tàb^ε</i> | <i>tàbìl^ε</i> |

-l- derives causatives from nominals and from verbs expressing states or positions:

| | | | |
|---------------------------------------|----------------------|----------------------------|------------------------------|
| <i>ñyá'an^a</i> | "behind" | <i>ñyā'al^{ε/}</i> | "leave behind" |
| <i>gēog^ɔ</i> | "space between legs" | <i>gēl^{ε/}</i> | "put between legs" Tones sic |
| <i>līk^a</i> | "darkness" | <i>lìgìl^ε</i> | "cover up" |
| <i>bāñ'</i> | "ride" | <i>bāñ'al^{ε/}</i> | "put on a horse/bicycle etc" |
| <i>gū'</i> | "guard" | <i>gū'ul^{ε/}</i> | "set someone on guard" |
| <i>yè</i> | "dress oneself" | <i>yèl^ε</i> | "dress another person" |
| <i>mā'e'</i> | "get cool" | <i>mā'al^{ε/}</i> | "make cool" |
| <i>pūñ'e'</i> | "rot" | <i>pōñ'ɔl^{ε/}</i> | "cause to rot" |
| <i>nìe</i> | "appear" | <i>nèl^ε</i> | "reveal" |
| <i>mā'e'</i> | "get cool, wet" | <i>mā'al^{ε/}</i> | "make cool, wet" |
| <i>wō'v^gl^{ε/}</i> | "get wet" | <i>wō'vl^{ε/}</i> | "make wet" |
| ?also <i>zàb^ε</i> | "fight" | <i>zàbìl^ε</i> | "cause to fight" |
| <i>dū'à^a</i> | "bear, beget" | <i>dù'al^ε</i> | "make interest (of a loan)" |

-s- derives causatives from dynamic verbs for the most part:

| | | | |
|------------------------|---------------|---|--|
| <i>kpèñ'</i> | "enter" | <i>kpèñ'εs^ε</i> | "make enter" |
| <i>nìe</i> | "appear" | <i>nès^ε</i> | "reveal" |
| <i>yī</i> | "go/come out" | <i>yīs^{ε/}</i> or <i>yīs^ε</i> | "make go/come out" |
| <i>dì</i> | "eat" | <i>dīs^ε</i> | "feed" |
| <i>nū</i> | "drink" | <i>nūlīs^{ε/}</i> | "make drink"; also <i>nūlīg^{ε/}</i> |
| <i>sīg^ε</i> | "go down" | <i>sīgīs^{ε/}</i> | "lower" |

| | | | |
|---------------------------|--------------------|----------------------------|------------------------|
| <i>lèb</i> ^ε | "return" | <i>lèbìs</i> ^ε | "make return; answer" |
| <i>mụ'à</i> ^a | "suck" (of a baby) | <i>mù'as</i> ^ε | "give to suck" |
| [Mooré <i>tá</i> | "arrive"] | <i>tā'as</i> ^{ε/} | "help to travel, walk" |
| <i>zēm</i> ^{ma/} | "be equal" | <i>zēmīs</i> ^{ε/} | "make equal" |
| <i>kpiig</i> ^ε | "go out (fire)" | <i>kpiis</i> ^ε | "quench" |

-s- may have a pluractional sense:

| | | | |
|---------------------------|--------------------|-----------------------------|---------------------------|
| <i>kò</i> | "break" | <i>kò'ɔs</i> ^ε | "break several times" |
| <i>tòñ</i> | "shoot" | <i>tòñ'ɔs</i> ^ε | "hunt" |
| <i>pìəb</i> ^ε | "blow (flute etc)" | <i>pèbìs</i> ^ε | "blow (wind)" |
| <i>làbì</i> ^{ya} | "crouch in hiding" | <i>làbìs</i> ^ε | "walk stealthily" |
| <i>vōə</i> ^{ya/} | "be alive" | <i>vō'vs</i> ^{ε/} | "breathe, rest" |
| <i>ĩāñk</i> ^{ε/} | "fly, jump" | <i>ĩāñ'as</i> ^{ε/} | "leap, jump repeatedly" |
| <i>yā'e</i> [/] | "open mouth" | <i>yā'as</i> ^{ε/} | "open repeatedly" WK |
| <i>dī'e</i> [/] | "receive" | <i>dī'əs</i> ^{ε/} | "receive (many things)" |
| <i>gū'</i> | "guard" | <i>gū'us</i> ^{ε/} | "watch out; guard (many)" |

-g- attached to dynamic roots implies reversal:

| | | | |
|--------------------------------|--------------------|----------------------------|-------------------------------------|
| <i>yè</i> | "dress oneself" | <i>yèεg</i> ^ε | "undress oneself" |
| <i>pìd</i> ^ε | "put (hat etc) on" | <i>pìdìg</i> ^ε | "take (hat etc) off" |
| <i>pìl</i> ^ε | "cover" | <i>pìlìg</i> ^ε | "uncover" |
| <i>lō</i> | "tie up" | <i>lōdīg</i> ^{ε/} | "untie" |
| <i>yò</i> | "close" | <i>yò'ɔg</i> ^ε | "open" |
| <i>èñd</i> ^ε | "block up" | <i>èñdìg</i> ^ε | "unblock" |
| <i>yà'al</i> ^ε | "hang up" | <i>yàk</i> ^ε | "unhang" |
| <i>pà'al</i> ^ε | "put on top" | <i>pàk</i> ^ε | "take off top" |
| <i>pìbìl</i> ^ε | "cover up" | <i>pìbìg</i> ^ε | "uncover" |
| <i>tàbì</i> ^{ya} | "be stuck to" | <i>tàbìg</i> ^ε | "unstick, get unstuck" |
| <i>là'as</i> ^ε | "gather together" | <i>lāk</i> ^{ε/} | "open" (eye, book); tone <i>sic</i> |
| | | cf <i>lákè</i> | (Mooré) "un-stick together" |
| ?also <i>lìəb</i> ^ε | "become" | <i>lèbìg</i> ^ε | "turn over" |
| <i>fāñ</i> | "rob, snatch" | <i>fāēñ</i> [/] | "save" ?? for "snatch back" |

Reversive *-g-* is peculiar to the Western group within Oti-Volta; elsewhere alveolar suffixes appear: Moba *lōōñ* "close" *lōōđ* "open", Byali *byá* "close" *byēró* "open", Nawdm *riw* pfv "close" *rawd*g pfv *rawda* ipfv "open." Proto-Bantu had *-ɔl-* and *-ɔk-*; an alveolar variant may have been lost in Western Oti-Volta because of the adoption of *-da* as the regular dynamic imperfective flexion.

-g- also forms a few causatives:

| | | | |
|---------------------------|----------------------|----------------------------|--|
| <i>dɔ̄l^{la/}</i> | "accompany" | <i>dɔ̄līg^{ε/}</i> | "make accompany" |
| <i>gɔ̄r^{a/}</i> | "look up" DK | <i>gɔ̄dīg^{ε/}</i> | "make look up" DK |
| <i>tɛ̄ñr^a</i> | "remember" | <i>tɛ̄ñ</i> | "bring to mind, remind" |
| <i>yùul^ε</i> | "swing" intransitive | <i>yùlīg^ε</i> | "swing" transitive |
| <i>kò</i> | "break" intransitive | <i>kò'og^ε</i> | "break" ambitransitive |
| <i>nū</i> | "drink" | <i>nūlīg^{ε/}</i> | "make drink"; also <i>nūlīs^{ε/}</i> |

-g- occurs with no clear meaning in

| | | | |
|-------------------------|-----------|----------------------------|--|
| <i>sɔ̄ñ</i> | "rub" | <i>sūeñ[/]</i> | "anoint" |
| <i>nɔ̄b^ε</i> | "get fat" | <i>nɔ̄bīg^{ε/}</i> | "grow" (child, plant) |
| <i>nā</i> | "join" | <i>nāe[/]</i> | "finish"; compare Hausa <i>gamàa</i> "join, finish" |

-d- appears with a pluractional sense in *kɔ̄dīg^{ε/}* "slaughter one animal", *kɔ̄t^{ε/}* "slaughter several animals." This is perhaps historically connected with the **d* of the ipfv suffix *-*da*, by way of the distinctively habitual sense seen in stance verbs [7.2](#).

-m- derives some preverbs [16.8](#):

| | | | | |
|----|--------------------------|---------------------|---------------|------------|
| | <i>lèb^ε</i> | "return" | <i>lèm</i> | "again" |
| cf | <i>là'as^ε</i> | "gather together" | <i>là'am</i> | "together" |
| | <i>dèṅ^ε</i> | "go first" | <i>dèṅim</i> | "first" |
| cf | <i>maliḡ</i> | (Toende) "do again" | <i>màlḡim</i> | "again" |

It has no obvious meaning in *kòñsìm^m* "cough" = *kòñs^ε id.*

-r- appears in

| | | | |
|--------------------------|-----------------|---------------------------|----------------------------|
| <i>kāab^{ε/}</i> | "offer, invite" | <i>kābīr^{ε/}</i> | "ask for admission" |
| | | cf <i>kábis</i> | Toende <i>id</i> |
| [no simplex] | | <i>sūgūr^{ε/}</i> | "forbear, be patient with" |

Both words appear frequently in pan-regional set formulae [25](#) and may well be loanwords. They may be back-formations from the nouns *kābirí* and *sūgvró*, where *ri/rv* possibly originated in the equivalent of *rɛ|aa* class singular flexions [5.1](#).

9.1.2 From nominals

9.1.2.1 Single aspect

Intransitive stative verbs are mostly derived from adjectives or human-reference nouns. Some transitive stative verbs are also denominal.

Many stative verbs are formed with *-ya*, like dynamic single-aspect verbs. Even when the adjective is primary, it may show segmental remodelling on the verbal forms with **y*. *S*-stems show no sign of **y* synchronically, and *m*-stems have lost gemination except after short root vowels for many speakers.

This **y* differs in tonal behaviour from the **y* and **d* of dynamic verbs 3.8.4. Primary nominals show a characteristic Tone Pattern correspondence with the verbs: Pattern L nominals correspond to Pattern A verbs but Pattern H and Pattern A both correspond to Pattern H verbs. Historically, the all-M pattern of verbs corresponding to Pattern A nominals was also Pattern A, as reflected in the tonemes of e.g. *kpī'əm^{ma/}* "be strong" (not **kpī'əm^{ma/}*), but the LF-final toneme is now always H; similarly, the original Pattern L type now changes to all-M in the irrealis mood just like dynamic Pattern A verbs: *Ò nà vēn* "She'll be beautiful."

| | | | | |
|---|-----------------------------|--------------|-----------------------------|-----------------|
| L | <i>vènnìg^a</i> | "beautiful" | <i>vèn^{na}</i> | "be beautiful" |
| | <i>vèñlìg^a</i> | "beautiful" | <i>vèñl^{la}</i> | "be beautiful" |
| | <i>zùlòŋ^o</i> | "deep" | <i>zùlìm^{ma}</i> | "be deep" |
| | <i>pòdìg^a</i> | "small" | <i>pòd^a</i> | "be few, small" |
| | <i>mì'isòg^o</i> | "sour" | <i>mì'is^a</i> | "be sour" |
| | <i>sùŋ^o</i> | "good" | <i>sùm^{ma}</i> | "be good" |
| | <i>yàlòŋ^o</i> | "wide" | <i>yàlìm^{ma}</i> | "be wide" |
| H | <i>bōgvsír^ε</i> | "soft" | <i>bōgōs^{a/}</i> | "be soft" |
| | <i>vōr^{ε/}</i> | "alive" | <i>vōg^{ya/}</i> | "be alive" |
| | <i>mā'asír^ε</i> | "cool" | <i>mā'as^{a/}</i> | "be cool" |
| | <i>tēbvsír^ε</i> | "heavy" | <i>tēbīs^{a/}</i> | "be heavy" |
| | <i>mālvvsír^ε</i> | "sweet" | <i>mālvīs^{a/}</i> | "be sweet" |
| | <i>lābvsír^ε</i> | "wide" | <i>lābīs^{a/}</i> | "be wide" |
| | <i>zēm^o</i> | "equal" | <i>zēm^{ma/}</i> | "be equal to" |
| | <i>lāllóg^o</i> | "far" | <i>lāl^{la/}</i> | "be far from" |
| A | <i>tōg^o</i> | "bitter" | <i>tōg^{ya/}</i> | "be bitter" |
| | <i>gīŋ^a</i> | "short" | <i>gīm^{ma/}</i> | "be short" |
| | <i>kpī'orŋ^o</i> | "strong" | <i>kpī'əm^{ma/}</i> | "be strong" |
| | <i>kpēēñm^m</i> | "elder" | <i>kpēēñm^{ma/}</i> | "be older than" |
| | <i>wēnnīr^ε</i> | "resembling" | <i>wēn^{na/}</i> | "resemble" |

More complex stem changes occur in

| | | | |
|----------------------------|------------------|---------------------------|---------------------|
| <i>tōvlóg^o</i> | "hot" | <i>tōl^{la/}</i> | "be hot" |
| <i>ñyèesi^aŋ</i> | "self-confident" | <i>ñyèes^a</i> | "be self-confident" |
| <i>wōk^{o/}</i> | "long, tall" | <i>wā'am^{a/}</i> | "be long, tall" |

9.1.2.2 Dual aspect

-g- attached to nominal/adjectival roots has the meaning "make/become ...":

| | | | |
|----------------------------|---|---------------------------|---------------------------|
| <i>ñyō'os^{ε/}</i> | "smoke" | <i>ñyū'e[/]</i> | "set alight" |
| <i>ñwīg^{a/}</i> | "rope" | <i>ñwīg^{ε/}</i> | "make a rope" |
| <i>tādīm^{m/}</i> | "weak person" | <i>tādīg^ε</i> | "become weak" |
| <i>kpì'a</i> | "neighbour" | <i>kpì'e</i> | "approach" |
| <i>zūθ^ε</i> | "hill" | <i>zùe</i> | "get higher, more" |
| <i>À-Tūl^{lε}</i> | "Breech-Delivered" 26.2 | <i>tùlìg^ε</i> | "invert" |
| <i>mā'asír^ε</i> | "cool, wet" | <i>mā'e[/]</i> | "get cool, wet" |
| <i>bōgvsír^ε</i> | "soft" | <i>bōk^{ε/}</i> | "soften" |
| <i>tēbisír^ε</i> | "heavy" | <i>tēbīg^{ε/}</i> | "get/make heavy" |
| <i>gīŋ^a</i> | "short" | <i>gìŋ^ε</i> | "scrimp" |
| <i>kpī'oŋ^o</i> | "strong" | <i>kpè'ŋ^ε</i> | "strengthen" |
| <i>vōr^{ε/}</i> | "alive" | <i>vō'v^{ε/}</i> | "make/come alive" |
| <i>pòdìg^a</i> | "few" | <i>pò'og^ε</i> | "diminish, belittle" |
| <i>pèlìg^a</i> | "white" | <i>pèlìg^ε</i> | "whiten" |
| <i>sābílìg^a</i> | "black" | <i>sōbīg^{ε/}</i> | "blacken" |
| <i>nīn-múa</i> | "concentration" | <i>mù'e</i> | "redden, become intense" |
| <i>kōdōg^o</i> | "old" | <i>kòdìg^ε</i> | "shrink up, dry out, age" |
| <i>sòŋ^o</i> | "good" | <i>sòŋ^ε</i> | "help" |
| <i>tōvlóg^o</i> | "hot" | <i>tōlīg^{ε/}</i> | "heat up" |
| <i>mì'isòg^o</i> | "sour" | <i>mì'ig^ε</i> | "turn sour" |
| <i>zùlòŋ^o</i> | "deep" | <i>zùlìg^ε</i> | "deepen" |
| <i>lāllóg^o</i> | "far" | <i>lālīg^{ε/}</i> | "get to be far, make far" |
| <i>màuk^o</i> | "crumpled up" | <i>màk^ε</i> | "crumple up" |
| <i>dēeŋ^a</i> | "first" | <i>dèŋ^ε</i> | "precede" |
| <i>nèe^ε</i> | "clear, empty" | <i>nìe</i> | "appear" |
| <i>sōñ'e^{ya/}</i> | "be better than" | <i>sūñ'e[/]</i> | "become better than" WK |

With the addition of **-m** as a second derivational suffix:

| | | | |
|-------------------------|----------|--------------------------|--------------|
| <i>wàuŋ^o</i> | "wasted" | <i>wàŋìm^m</i> | "waste away" |
|-------------------------|----------|--------------------------|--------------|

-lum- derives verbs from noun roots, meaning "act as ..." or "make/become ...":

| | | | |
|---------------------------|---------------------|-----------------------------|---|
| <i>pɥ'ā^a</i> | "woman" | <i>pò'alìm^m</i> | "cook" |
| <i>pòñ'ɔr^ε</i> | "cripple" | <i>pòñ'ɔlìm^m</i> | "cripple, get crippled" |
| <i>gìk^a</i> | "dumb" | <i>gìgùlìm^m</i> | "become dumb" |
| <i>wàbìr^ε</i> | "lame" | <i>wàbùlìm^m</i> | "make, go lame" |
| <i>gò'vs^ε</i> | "semi-ripe things" | <i>gò'vùlìm^m</i> | "become semi-ripe" |
| <i>bògòd^a</i> | "client of diviner" | <i>bògùlìm^m</i> | "cast lots" (cf <i>bòk^ε id</i>) |

Miscellaneous denominal dual-aspect verbs formed with *s m b* are seen in

| | | | |
|--------------------------|------------------------|--------------------------|--------------------------|
| <i>zɥà</i> | "friend" | <i>zùəs^ε</i> | "befriend" |
| <i>nēɛr^{ε/}</i> | "millstone" | <i>nēɛm^{m/}</i> | "grind with a millstone" |
| <i>yā'ad^ε</i> | "clay" | <i>yà'ab^ε</i> | "mould clay" |
| cf <i>yàge</i> | (Mooré) "make pottery" | | |

9.2 Nominals

9.2.1 From verbs

The derivational processes described below are very productive; agent noun formation in particular is almost flexional in its regularity and generality. Deverbal noun and adjective formation shows more analogical levelling than derivational processes elsewhere, in keeping with the strong tendency to regularity and transparency in verb morphology. For Tone Patterns see [3.8.4](#).

9.2.1.1 Agent nouns

Agent nouns can be freely made from almost all verbs which can be used in direct commands. Informants readily supply isolated forms, but in practice they usually occur as second elements of compounds. All are *a|ba* class, but those derived from *ll-* or *r(r)-*stem single-aspect verbs also show *rɛ|aa* forms [5.3.1](#). Despite their regularity of formation, agent nouns often develop specialised meanings. As with English derivatives in "-er", "agent nouns" may be created from verbs whose subject is not in fact an agent, including even stative verbs if usable in direct commands.

The formant of agent nouns and habitual adjectives is *-d*, probably historically related to the *-d-* of the imperfective flexion *-da*, though it has different tonal effects. Derivational *-d* shows much less regularity in its mode of attachment than ipfv *-da*; agent nouns are more regular than habitual adjectives. There is a tendency to limit stem length, causing deletion of either *-d* itself or the suffix preceding it. Absence or presence of *-d* affects the Tone Pattern [3.8.4](#).

Most dual-aspect verbs have an agent noun with sg segmentally identical to the ipfv. If there are alternate forms, the less "regular" form appears as the agent noun.

| | | | |
|---------------------------|---------------|--|------------------|
| <i>mè</i> | "build" | <i>mēɛd^a</i> | "builder" |
| <i>dì</i> | "eat" | <i>dīt^a</i> | "eater" |
| <i>gōs^ε</i> | "look" | <i>gōt^{a/}</i> | "seer, prophet" |
| <i>dōg^ε</i> | "cook" | <i>dōgōd^{a/}</i> | "cook" |
| <i>dɔ̀'á^a</i> | "bear, beget" | <i>dō'ad^a</i> | "elder relation" |
| <i>kàd^ε</i> | "drive away" | <i>saríyà-kāt^a</i> | "judge" |
| <i>sōb^ε</i> | "write" | <i>sōbīd^{a/}</i> | "writer" |
| <i>bùn^ε</i> | "reap" | <i>būn^{na}</i> | "reaper" |
| <i>tòm^m</i> | "work" | <i>tòm-tōm^{na}</i> | "worker" |
| <i>kpàr^ε</i> | "lock" | <i>kpārīd^a</i> | "lock-er" |
| <i>gbīs^ε</i> | "sleep" | <i>gbīsīd^{a/}</i> | "sleeper" |
| <i>sìàk^ε</i> | "believe" | <i>sìākīd^a</i> | "believer" |
| <i>jàñk^{ε/}</i> | "jump, fly" | <i>jàñ'ad^{a/}</i> | "flier" |
| <i>sòŋ^ε</i> | "help" | <i>sōŋīd^a</i> | "helper" |
| <i>kēŋ^{ε/}</i> | "go" | <i>kēn^{na/}</i> | "traveller" |
| <i>gàad^ε</i> | "pass" | <i>tùøŋ-gāt^a</i> | "leader" |
| <i>màal^ε</i> | "sacrifice" | <i>màal-māan^{na}</i> | "sacrificer" |
| <i>pà'al^ε</i> | "teach" | <i>pā'an^{na}</i> | "teacher" |
| <i>sūgūr^{ε/}</i> | "forbear" | <i>sūgūrīd^a</i> | "forgiver" |
| <i>yō'um^{m/}</i> | "sing" | <i>yōum-yō'um^{na}</i> | "singer" |
| | | pl <i>yōum-yō'umnìb^a</i> | |
| <i>sàñ'am^m</i> | "spoil" | <i>pɔ̀'à-sāñ'am^{na}</i> | "adulterer" |
| | | pl <i>pɔ̀'à-sāñ'amīdīb^a</i> | |

Pattern H fusion verbs, which delete the H toneme of the stem in the imperfective 3.8.2, show the same form for the agent noun:

| | | | |
|----------------|------------|--------------------------------|---|
| <i>nāe'</i> | "finish" | <i>nāad^{a/}</i> | "someone who doesn't give up easily" WK |
| <i>ñwà'e</i> | "cut wood" | <i>ñwā'ad^a</i> | "woodcutter" |
| <i>gbāñ'e'</i> | "catch" | <i>zīm-gbāñ'ad^a</i> | "fisherman" |
| <i>fāeñ'</i> | "save" | <i>fāañd^{a/}</i> | "saviour" WK 11 |
| <i>dī'e'</i> | "receive" | <i>dī'əd^{a/}</i> | "receiver" |

3-mora stems in *-s* consistently drop the *-d* in the sg and cb:

| | | | |
|---------------------------|-----------|---------------------------------------|---------------------|
| <i>sīgīs^{ε/}</i> | "lower" | <i>sīgīs^{a/}</i> | "lowerer" |
| | | pl <i>sīgīsídìb^a</i> | |
| <i>kùəs^ε</i> | "sell" | <i>kùəs^a</i> | "seller" |
| | | pl <i>kūəsīdīb^a</i> | |
| <i>pò'vs^ε</i> | "worship" | <i>pò'vs^a</i> | "worshipper" |
| | | pl <i>pò'vsīdīb^a</i> | |
| <i>tò'as^ε</i> | "talk" | <i>tò'as-tò'as^a</i> | "talker" |
| | | pl <i>tò'as-tò'asīdīb^a</i> | |
| <i>dī'əs^{ε/}</i> | "receive" | <i>nō-dī'əs^a</i> | "chief's spokesman" |
| | | pl <i>nō-dī'əsìdìb^a</i> | ("linguist") |

Some 2-mora stems also irregularly drop the *-d* in the sg and cb:

| | | | |
|------------------------|---------|-----------------------------|------------------|
| <i>zàb^ε</i> | "fight" | <i>zàb-zàb^a</i> | "warrior" |
| | | <i>gbān-záb^a</i> | "leather-worker" |
| <i>tìs^ε</i> | "give" | <i>tìs^a</i> | "giver" |
| <i>sòs^ε</i> | "beg" | <i>sòs^a</i> | "beggar" |

Stems in *-mm-* form reduplicated agent nouns with *nàm^a* plurals:

| | | | |
|------------------------|---------|-----------------------------|----------|
| <i>dàm^m</i> | "shake" | <i>dàm-dàm^{ma}</i> | "shaker" |
|------------------------|---------|-----------------------------|----------|

The *nn-*stem *sùn^{nε}* (ipfv *sùnnìd^a*) "bow the head" has an agent noun stem in *-nn-*, but the tonemes show retention of the *-d-* formant:

| | | | |
|-------------------------|------------|---|----------------------|
| <i>sùn^{nε}</i> | "bow head" | <i>sūn^{na}</i> | "deep thinker, close |
| | | pl <i>sūnnīb^a</i> cb <i>sùn-</i> | observer" WK |

Agent nouns can only be formed from 3-mora verb stems in **g-* if the **g* is either deleted or assimilated with the root final consonant as *-k-* or *-ŋ-*:

| | | | |
|---------------------------|-----------|-------------------------|---|
| <i>yādīg^{ε/}</i> | "scatter" | <i>yāt^{a/}</i> | (a participant in a housebuilding ritual) |
|---------------------------|-----------|-------------------------|---|

Various irregular formations in my materials include:

| | | | |
|--------------------------|--------|-----------------------------------|-----------------------|
| <i>tēk^{ε/}</i> | "pull" | <i>ñwī-ték^a</i> | "rope-puller" |
| | | pl <i>ñwī-tékìdìb^a</i> | |
| <i>nòŋ^ε</i> | "love" | <i>nòŋìd^a</i> | "lover"; tones irreg |
| <i>tì'əb^ε</i> | "heal" | <i>tì'əb^a</i> | "healer"; tones irreg |

For 4-mora stems: KT has no agent nouns; WK drops the stem-final *m*.

| | | | |
|----------------------------|-----------------|---------------------------------|-----------------------|
| <i>s̄ilim^m</i> | "cite proverbs" | <i>s̄in^{na}</i> | "speaker of proverbs" |
| | | pl <i>s̄innīb^a</i> | |
| <i>pò'alim^m</i> | "harm" | <i>pō'an^{na}</i> | "harmer" |
| <i>zàaṅsim^m</i> | "dream" | <i>zàaṅs^a</i> | "dreamer" |
| | | pl <i>zāaṅsīdīb^a</i> | |

Single-aspect verbs with unassimilated *y*, and the bare-stem type, add *-d-*:

| | | | |
|----------------------------|---------------------|---|--|
| <i>zīñ'i^{ya}</i> | "be sitting down" | <i>zīñ'id^a</i> | "sitter" |
| <i>zī'e^{ya}</i> | "be standing still" | <i>zī'əd^a</i> | "stander" |
| <i>mī'</i> | "know" | <i>mī'id^{a/}</i> | "knower" |
| | | <i>gbàn-mī'id^{a/}</i> | "scribe" NT |
| <i>zī'</i> | "not know" | <i>zī'íd^{a/}</i> | "ignorant person" |
| <i>sō'e^{ya/}</i> | "own" | <i>sō'vd^{a/}</i> | "owner" |
| <i>sōñ'e^{ya/}</i> | "be better than" | <i>sōñ'ɔd^{a/}</i> pl <i>sōñ'ɔb^{a/}</i> <u>5.3.1</u> | |
| <i>dīgī^{ya/}</i> | "be lying down" | <i>dīgīd^{a/}</i> | "lier-down" |
| <i>īgī^{ya/}</i> | "be kneeling" | <i>īgīd^{a/}</i> | "kneeler" |
| <i>vābī^{ya/}</i> | "be lying prone" | <i>vābīd^{a/}</i> | "lier prone" |
| <i>lābī^{ya}</i> | "be crouching" | <i>lābīd^a</i> | "croucher in hiding" |
| <i>àḡñ^{ya}</i> | "be something" | <i>āaṅd^a</i> | "someone who always is something" <i>sic</i> WK |

Stems in *nn ll r(r)* drop *-d* throughout. Those in *ll r(r)* may use *re|aa* class suffixes, coinciding in form with habitual adjectives 5.3.1.

| | | | |
|---------------------------|--------------|--|--------------------------|
| <i>s̄in^{na/}</i> | "be silent" | <i>n̄in-s̄in^{na}</i> | "silent person" |
| <i>nēn^{na/}</i> | "envy" | <i>n̄in-nēn^{na}</i> | "envious person" |
| <i>dōl^{la/}</i> | "be with" | <i>ñyà'an-dòl^{la} -dòl^{le}</i> | "disciple" (irreg. tone) |
| <i>zāñl^{la/}</i> | "be holding" | <i>nō-záñl^{la} -záñl^{le}</i> | "holder of hens" |
| <i>dēl^{la/}</i> | "be leaning" | <i>n̄in-dél^{la}</i> | "person prone to lean" |
| <i>mōr^{a/}</i> | "have" | <i>bò-mōr^{a/} -mōr^{ε/}</i> | "owner of goats" |
| <i>tār^{a/}</i> | "have" | <i>bò-tār^{a/} -tār^{ε/}</i> | "owner of goats" |

The simplification to single *s r* leads to analogical formations with *-d-* in

| | | | |
|-------------------------|---------------|---|--------------|
| <i>kīs^{a/}</i> | "hate" | <i>kīs^{a/} or kīsīd^{a/}</i> | "hater" |
| <i>tēñr^a</i> | "remember" | <i>tēñrīd^a</i> | "rememberer" |
| <i>gūr^{a/}</i> | "be on guard" | <i>gūrīd^{a/}</i> | "guard" |
| | | <i>zà'-nō-gúr^a</i> | "gatekeeper" |

9.2.1.2 Adjectives

Habitual deverbal adjectives in principle have the same stem as the agent noun, but drop the *-d* formant more readily. The sense may be active or passive, essentially "habitually connected with the verbal action", like the range of meaning of an English gerund as a noun premodifier. A past passive sense is unusual, though examples occur: *sūm-dúgvdà* "cooked groundnuts" WK, *ziṅdvogida* = *zīṅ-dúgvdà* "cooked fish" (Lk 24:42), beside the more usual sense in *nī'im dvogida* = *nīm-dúgvdà* "meat for cooking" (1 Samuel 2:15.)

Without a preceding cb, these adjective forms have the same meaning as agent nouns: *kōvdír^ε* pl *kōvdá* "killer" = *kōvd^{a/}* pl *kōvdíb^a*. After a cb the meanings differ: *pu'à-kōvd^{a/}* "woman-killer, killer of women" vs *pu'à-kōvdír^ε* "woman killer, murderous woman." Accordingly, deverbal adjectives will be cited with a preceding cb.

With dual-aspect verbs, 2-mora stems all retain the **d*:

| | | | |
|-------------------------|---------------|----------------------------------|--|
| <i>gòñ</i> | "hunt" | <i>pu'à-gōñdír^ε</i> | "prostitute" |
| <i>là'</i> | "laugh" | <i>pu'à-lā'adír^ε</i> | "woman prone to laughter/ woman to be laughed at" |
| <i>ñyē</i> | "see" | <i>bōn-ñyétír^ε</i> | "visible object" |
| <i>kūā</i> | "hoe" | <i>nā'-dá-kūødír^ε</i> | "ox for ploughing" |
| <i>yè</i> | "don clothes" | <i>fū-yéedír^ε</i> | "shirt for wearing" WK |
| | | <i>fū-yéedùg^o</i> | KT |
| <i>kō</i> | "kill" | <i>tì-kōvdím^m</i> | "poison" ("killing medicine") |
| <i>du'à^a</i> | "bear/beget" | <i>tèṅ-dū'adīg^a</i> | "native land" |
| <i>dōg^ε</i> | "cook" | <i>sūm-dúgvdà</i> | "cooked groundnuts" WK |
| <i>sīg^ε</i> | "descend" | <i>yī-sīgídír^ε</i> | "lodging-house" |
| <i>su'ā^a</i> | "hide" | <i>yēl-sú'adír^ε</i> | "confidential matter" |
| <i>òñb^ε</i> | "chew" | <i>bōn-òñbídà</i> | "solid food" |
| <i>bùn^ε</i> | "reap" | <i>bōn-búnnír^ε</i> | "thing for reaping" |
| <i>tòm^m</i> | "work" | <i>bōn-túmmír^ε</i> | "useful thing" |
| <i>vōl^ε</i> | "swallow" | <i>tì-vōnním^m</i> | "oral medication" |
| <i>gbīs^ε</i> | "sleep" | <i>pu'à-gbīsídír^ε</i> | "woman always sleeping" |

3-mora stems in **g* drop *-d* unless **g* is deleted in the imperfective:

| | | | |
|---------------------------|------------|--------------------------------|-----------------------------|
| <i>tōlīg^{ε/}</i> | "heat up" | <i>bōn-tólīgír^ε</i> | "heater, thing for heating" |
| <i>pèlīg^ε</i> | "whiten" | <i>bōn-pélīgír^ε</i> | "whitening thing, whitener" |
| <i>pàk^ε</i> | "surprise" | <i>yēl-pákír^ε</i> | "disaster" |
| <i>tēk^{ε/}</i> | "pull" | <i>ñwī-tékír^ε</i> | "rope for pulling with" |
| <i>sòṅ^ε</i> | "help" | <i>bōn-sóṅír^ε</i> | "helpful thing" |
| <i>nòṅ^ε</i> | "love" | <i>bì-nòṅír^ε</i> | "beloved child" |

| | | | | |
|-----|----------------------------|-------------|----------------------------------|---|
| but | <i>kēŋ</i> ^{ε/} | "go" | <i>bòŋ-kēnnír</i> ^ε | "donkey that doesn't sit still" |
| | <i>gīlīg</i> ^{ε/} | "go around" | <i>pɹ'á-gīnníg</i> ^a | "prostitute" |
| | <i>sūeñ</i> [/] | "anoint" | <i>kpā-sóóñdìm</i> ^m | "anointing oil" |
| | <i>yādīg</i> ^{ε/} | "scatter" | <i>bōn-yátìr</i> ^ε | "scattering thing" (cf <i>yāt</i> ^{a/}) |
| | <i>jàñk</i> ^{ε/} | "fly, jump" | <i>bōn-jàñ'adìr</i> ^ε | "flying creature" |

3-mora stems in *-m* retain the *-d*, forming the consonant cluster *-mm-*:

| | | | |
|----------------------------|-----------|----------------------------------|----------------|
| <i>sàñ'am</i> ^m | "destroy" | <i>bò-sàñ'ammīr</i> ^ε | "scapegoat" WK |
|----------------------------|-----------|----------------------------------|----------------|

3-mora stems in *-s* all drop the *-d*:

| | | | |
|---------------------------|-----------|---------------------------------|--------------------|
| <i>pèlìs</i> ^ε | "sharpen" | <i>bōn-pélìsìr</i> ^ε | "sharpening thing" |
| <i>kùø</i> ^ε | "sell" | <i>bōn-kúøìr</i> ^ε | "item for sale" |

4-mora stems (all from KT) drop *-d* (whereas agent nouns drop stem-final *-m*):

| | | | |
|-----------------------------|-----------------|----------------------------------|------------------------------|
| <i>sìlìm</i> ^m | "cite proverbs" | <i>bōn-sìlìb</i> ^o | "thing relating to proverbs" |
| <i>pò'alìm</i> ^m | "harm" | <i>nīn-pó'alìŋ</i> ^a | "harmful person" |
| | | <i>pɹ'á-pò'alìŋ</i> ^a | "harmful woman" |
| <i>zàañsìm</i> ^m | "dream" | <i>nīn-záañsòŋ</i> ^o | "dreamy person" |
| | | <i>pɹ'á-zàañsúb</i> ^o | "dreamy woman" |

Dynamic single-aspect verbs show the same stem as the agent noun:

| | | | |
|----------------------------|--------------|----------------------------------|-------------------------------|
| <i>dīgī</i> ^{ya/} | "be lying" | <i>bòŋ-dīgídír</i> ^ε | "donkey that lies down a lot" |
| <i>vābī</i> ^{ya/} | "be prone" | <i>bòŋ-vābídír</i> ^ε | "donkey always lying prone" |
| <i>zìñ'í</i> ^{ya} | "be sitting" | <i>kūg-zìñ'idìr</i> ^ε | "stone for sitting on" |
| <i>zāñ</i> ^{la/} | "be holding" | <i>nō-záñl</i> ^{lε} | "hen for holding" |
| <i>dēl</i> ^{la/} | "be leaning" | <i>nīn-dēl</i> ^{lε} | "person you can lean on" WK |
| | | <i>kùg-dēl</i> ^{lε/} | "chair for leaning on" |
| <i>gòl</i> ^{la} | "be hanging" | <i>bōn-gól</i> ^{lε} | "thing for suspending" |

Resultative deverbals are only derived from verbs which can use the perfective form in a resultative sense [16.2.2](#); it is not clear how productive the formation is. Almost all such verbs are either intransitive or patientive ambitransitive, and the adjectives are not passive participles, but express resulting states. There are no resultative adjectives from stance-verb roots meaning e.g. "seated", "standing" or from passives, like "eaten." The formant *-lim-* either deletes a preceding derivational suffix or is added only to roots; for the flexion see [6](#).

| | | | |
|----------------------------|-------------|-----------------------------|---------------------|
| <i>kpì</i> | "die" | <i>kpìilúŋ</i> ^o | "dead" |
| <i>gēñ</i> | "get tired" | <i>gēñlúŋ</i> ^o | "tired" |
| <i>pè'el^ε</i> | "fill" | <i>pè'elúŋ</i> ^o | "full" |
| <i>kò</i> | "break" | <i>kòólúŋ</i> ^o | "broken" |
| <i>yè</i> | "wear" | <i>yèelúŋ</i> ^o | "worn" (of a shirt) |
| <i>yò</i> | "close" | <i>yòólúŋ</i> ^o | "closed" |
| <i>pò'alim^m</i> | "harm" | <i>pò'alúŋ</i> ^o | "damaged" |
| <i>àeñ</i> | "tear" | <i>àańlúŋ</i> ^o | "torn" |

9.2.1.3 Instrument nouns

Instrument nouns can be created freely by adding *-m* to habitual-adjective stems in *d t* or *s*. All are *ga|se*. The meanings may overlap with those of agent nouns.

| | | | |
|---------------------------|--------------|-------------------------------------|--|
| <i>kō</i> | "kill" | <i>kōvdíŋ^a</i> | "thing for killing with" |
| <i>lō</i> | "tie" | <i>sìà-lōódíŋ^a</i> | "belt" ("waist-tying thing") |
| <i>dōg^ε</i> | "cook" | <i>dōgvdíŋ^a</i> | "cooking utensil" |
| <i>sōb^ε</i> | "write" | <i>sōbdíŋ^a</i> | "writing implement" |
| <i>kpàr^ε</i> | "lock" | <i>kpārídíŋ^a</i> | "thing for locking" |
| <i>ńwà'e</i> | "cut wood" | <i>ńwà'adíŋ^a</i> | "axe" |
| <i>pīe[/]</i> | "wash self" | <i>pīədíŋ^a</i> | "thing for washing oneself" |
| <i>sò</i> | "bathe" | <i>sōvdíŋ^a</i> | "sponge" |
| <i>gōs^ε</i> | "look" | <i>nīn-gótìŋ^a</i> | "mirror"; <i>nīn-gótis^ε</i> "glasses" |
| <i>bùd^ε</i> | "plant" | <i>būtíŋ^a</i> <u>2.3</u> | "cup" (originally "seed cup") |
| <i>pīəs^{ε/}</i> | "clean" | <i>pīəsíŋ^a</i> | "cleaning implement" |
| <i>kùəs^ε</i> | "sell" | <i>kūəsíŋ^a</i> | "professional salesperson" |
| <i>dā'e[/]</i> | "push" | <i>dā'adíŋ^a</i> | "pusher (person or thing)" |
| <i>zīñ'i^{ya}</i> | "be sitting" | <i>zīñ'idíŋ^a</i> | "thing for sitting on" |

9.2.1.4 Imperfective gerunds

Dynamic single-aspect verbs in *-ya* without assimilation of the *y* make perfective gerunds, as do a few others 8.1.1. Other single-aspect verbs which make gerunds add *-lim-* after root vowels and *-m-* after *nn ll r(r)*; the forms are *mm*-class.

| | | | |
|---------------------------|----------------|----------------------------|---------------------------------------|
| <i>sō'e^{ya/}</i> | "own" | <i>sō'vlím^m</i> | cf <i>so'olimkan</i> Mt 12:25, 1996 |
| <i>mī'</i> | "know" | <i>mī'ilím^m</i> | |
| <i>zī'</i> | "not know" | <i>zī'ilím^m</i> | |
| <i>àeñ^{ya}</i> | "be something" | <i>àańlím^m</i> | |
| <i>bè</i> | "be somewhere" | <i>bèlím^m</i> | <i>sic</i> |
| <i>kā'ε</i> | "not be" | <i>kā'alím^m</i> | |
| <i>wēn^{na/}</i> | "resemble" | <i>wēnním^m</i> | [tones show this is <i>deverbal</i>] |

| | | |
|----------------------------|----------------|--|
| <i>sīn</i> ^{na/} | "be silent" | <i>sīnním</i> ^m |
| <i>nēn</i> ^{na/} | "envy" | <i>nēnním</i> ^m |
| <i>dōl</i> ^{la/} | "accompany" | <i>dōllím</i> ^m |
| <i>zāñl</i> ^{la/} | "hold in hand" | <i>zāñllím</i> ^m |
| <i>dēl</i> ^{la/} | "be leaning" | <i>dēllóg</i> ^o or <i>dēllím</i> ^m |
| <i>mōr</i> ^{a/} | "have" | <i>mōrím</i> ^m |
| <i>tār</i> ^{a/} | "have" | <i>tārím</i> ^m |
| <i>nār</i> ^{a/} | "be necessary" | <i>nārím</i> ^m |
| <i>gūr</i> ^{a/} | "guard" | <i>gūrím</i> ^m |

These forms obey the tonal rules for gerund formation [3.8.4](#). The non-initial H toneme in Pattern L confirms that they are *m*-stems [3.8.1](#).

Stative verbs derived from imperfectives of dual-aspect verbs [16.2.3](#) also form imperfective gerunds; the tonemes show that these are not *m*-stems:

| | |
|--------------------------------|--|
| <i>bòc̀d̀im</i> ^m | "will" (Pattern L, unlike <i>b̀òc̀d̀īr</i> ^ε "desirable") |
| <i>g̀òc̀ñd̀im</i> ^m | "wandering" (<i>g̀òñ</i> "hunt") |
| <i>z̀òt̀im</i> ^m | "fear" [<i>M̀ z̀òt̀ nē</i> "I'm afraid."] |

The gerund *ẁum̄m̄v̄g* of *ẁòm*^m "hear" (written *wumug* before 2016, but read with *-mm-* in the 1996 audio NT) represents **ẁumd̄v̄g̀o*. Some deverbal abstract nouns from 3-mora verb stems in *-s-* are imperfective gerund forms with dropping of *-d-* as in agent nouns and deverbal adjectives.

| | | | |
|------------------------------|----------------|-----------------------------------|-----------------|
| <i>p̀ò'us</i> ^ε | "greet, thank" | <i>p̀ò'us̀im</i> ^m | "worship" |
| | | or <i>p̀ò'us̀òg</i> ^o | |
| <i>k̀ō</i> | "kill" | <i>n̄ñ-k̀úv̄s̀im</i> ^m | "murderousness" |
| <i>ỳōl̄is</i> ^{ε/} | "untie" | <i>ỳōl̄is̀im</i> ^m | "freedom" |

Unequivocal imperfective gerund forms with *-m-* derived from almost all agentive verbs occur as predependents of the bound noun

| | | | |
|-------------|---------------------------|----------------------------|--------------------|
| <i>-tāa</i> | <i>-tāas</i> ^ε | <i>-tā-</i> or <i>-tā-</i> | "companion in ..." |
|-------------|---------------------------|----------------------------|--------------------|

For dynamic single-aspect verbs with stems in *-ll -nn -r(r)*, and all stative verbs with deverbal gerunds, the forms are identical to the usual imperfective gerunds:

| | | | |
|----------------------------|------------|-----------------------|---------------------------|
| <i>m̄l̄'</i> | "know" | <i>m̄l̄'il̄im-tāa</i> | "partner in knowledge" |
| <i>z̄l̄'</i> | "not know" | <i>z̄l̄'il̄im-tāa</i> | "partner in ignorance" |
| <i>b̀è</i> | "exist" | <i>b̀èl̄im-tāa</i> | "partner in existence" WK |
| <i>d̀ōl</i> ^{la/} | "be with" | <i>d̀ōll̄im-tāa</i> | "fellow-companion" |

For the irregular stative verb *nòŋ*^ε WK has two forms with different nuances:

| | | | |
|-------------------------|--------|------------------------|----------------|
| <i>nòŋ</i> ^ε | "love" | <i>nòŋìlím-tāa</i> | "fellow liker" |
| | | or <i>nòŋìdíím-tāa</i> | "fellow lover" |

Dual-aspect verbs add *-m-* to the habitual adjective stem, but with *gerund* Tone Patterns:

| | | | |
|---------------------------|-----------|------------------------|-----------------------|
| <i>mè</i> | "build" | <i>mèédím-tāa</i> | "fellow-builder" |
| <i>dì</i> | "eat" | <i>dìtím-tāa</i> | "messmate" |
| <i>pū</i> | "share" | <i>pūvdím-tāa</i> | "fellow-sharer" |
| <i>kpèñ'</i> | "enter" | <i>kpèñ'édím-tāa</i> | "fellow-resident" |
| <i>zàb</i> ^ε | "fight" | <i>zàbídíím-tāa</i> | "opponent" |
| <i>dōg</i> ^ε | "cook" | <i>dōgvdíím-tāa</i> | "fellow-cook" |
| <i>fāñ</i> | "snatch" | <i>fāañdíím-tāa</i> | "fellow-robber" |
| <i>tùm</i> ^m | "work" | <i>tùmmím-tāa</i> | "co-worker" |
| <i>pù'us</i> ^ε | "worship" | <i>pù'usím-tāa</i> | "fellow-worshipper" |
| <i>dìis</i> ^ε | "feed" | <i>dìisím-tāa</i> | "fellow-feeder" |
| <i>sòŋ</i> ^ε | "help" | <i>sòŋím-tāa</i> | "fellow-helper" |
| | | or <i>sòŋìdíím-tāa</i> | |
| <i>sìàk</i> ^ε | "agree" | <i>sìàkím-tāa</i> | "fellow in agreement" |

Stance verbs may use *-díím-* or *-líím-* or *-níím-*; *-líím-* and *-níím-* forms may really belong to the derived assume-stance/make-assume-stance verbs 9.1.1:

| | | | |
|----------------------------|---------------|-------------------------|-----------------------------|
| <i>īgī</i> ^{ya/} | "be kneeling" | <i>īgīlím-tāa</i> | "fellow-kneeler" |
| | | or <i>īgīdíím-tāa</i> | "fellow-kneeler" WK |
| <i>zìñ'i</i> ^{ya} | "be sitting" | <i>zìñ'ilím-tāa</i> | "fellow-sitter" |
| | | or <i>zìñ'idíím-tāa</i> | "fellow-sitter" WK |
| <i>vābī</i> ^{ya/} | "lie prone" | <i>vābīlím-tāa</i> | "fellow lier-prone" |
| | | or <i>vābīdíím-tāa</i> | "fellow lier-prone" WK |
| <i>làbì</i> ^{ya} | "be crouched" | <i>làbīlím-tāa</i> | "fellow croucher in hiding" |
| <i>zì'e</i> ^{ya} | "be stood" | <i>zì'əlím-tāa</i> | "fellow-stander" |
| | | or <i>zì'ədíím-tāa</i> | "fellow-stander" WK |
| <i>dīgī</i> ^{ya/} | "be lying" | <i>dīgīlím-tāa</i> | "fellow-lier" |
| | | or <i>dīgīníím-tāa</i> | "fellow-lier" WK |

9.2.1.5 Others

-s- appears in a few concrete nouns derived from verbs:

| | | | |
|---------------------------|-----------------|---------------|---------|
| <i>dīgī^{ya/}</i> | "be lying down" | <i>dīgísá</i> | "lair" |
| <i>dū</i> | "go up" | <i>dūvsá</i> | "steps" |

-m- derives nouns in

| | | | |
|------------|-------|----------------------------|-----------|
| <i>zò</i> | "run" | <i>zòom^{mε}</i> | "refugee" |
| <i>kpì</i> | "die" | <i>kpì'im^{m/}</i> | "corpse" |

-d- appears as an instrument noun formant instead of the usual *-dīm-* in

| | | | |
|------------|---------------------|---------------------------|----------|
| <i>tùà</i> | "grind in a mortar" | <i>tūōdīr^ε</i> | "mortar" |
|------------|---------------------|---------------------------|----------|

See also on *pībīn^{nε}* "covering" etc, where the *n* may represent **ld* 8.1.2.

-b- derives nouns in

| | | | |
|-------------------|-------|----------------------------|--------------------------------|
| <i>kpì</i> | "die" | <i>kpìibìg^a</i> | "orphan" |
| <i>dà'</i> | "buy" | <i>dà'abìr^ε</i> | "slave" |
| ?? cf <i>àyí'</i> | "two" | <i>lībīr^ε</i> | "twin" (Buli <i>yībīk id</i>) |

9.2.2 From nominals

-s- and **-l-** form adjectives from adjectival roots:

| | | | |
|---------------------------|-------------|----------------------------|-------------|
| <i>mā'e'</i> | "cool down" | <i>mā'asír^ε</i> | "cold, wet" |
| <i>bōk^{ε/}</i> | "weaken" | <i>bōvśír^ε</i> | "soft" |
| <i>tēbīg^{ε/}</i> | "get heavy" | <i>tēbísír^ε</i> | "heavy" |
| <i>mì'ig^ε</i> | "get sour" | <i>mì'isòg^o</i> | "sour" |
| <i>sōb^ε</i> | "get dark" | <i>sābílíg^a</i> | "black" |

-d- features in a number of nouns with no evident derivational meaning, such as *yūgvđīr^ε* "hedgehog", *lā'af^o* "cowrie" pl *līgídī* "money", *pògvđīb^a* "father's sister."

It can form abstract nouns from human-reference words (examples from KB, Naden):

| | | | |
|--------------------------------|---------------|-------------------|-----------------------|
| <i>pu'à-sādīr^{ε/}</i> | "young woman" | <i>pu'asatim</i> | "girlhood, virginity" |
| <i>bōn-kúvdòg^o</i> | "old man" | <i>bōnkvttim</i> | "old age" |
| <i>gedvg</i> | "fool" | <i>getim</i> | "folly" |
| <i>pò-kòōñr^ε</i> | "widow" | <i>pòkòntim</i> | "widowhood" |
| <i>bā'-bīīg^a</i> | "brother" | <i>ba'abiidvg</i> | "brotherhood" |

-m- is seen in several unanalysable 3-mora stems, e.g. *yōgóm*^{nε} "camel" (ultimately from Berber), *gbīgīm*^{nε} "lion", *zìlim*^{mε} "tongue", *àñròŋ*^ɔ "boat", *zùlòŋ*^ɔ "deep", *ñyālóŋ*^ɔ "wonderful", *yàlòŋ*^ɔ "wide." It also derives both human-reference and mass nouns:

| | | | |
|-----------------------------|--------------------|-----------------------------|------------------|
| <i>bī'a</i> | "bad" | <i>bī'əm</i> ^m | "enemy" |
| <i>tàdìg</i> ^ε | "become weak" | <i>tādīm</i> ^{m/} | "weak person" |
| <i>áñsìb</i> ^a | "mother's brother" | <i>āñsíŋ</i> ^a | "sister's child" |
| <i>bì'isìr</i> ^ε | "breast" | <i>bì'isím</i> ^m | "milk" |
| <i>nà'ab</i> ^a | "chief" | <i>nā'am</i> ^m | "chiefship" |
| <i>zōlōg</i> ^{ɔ/} | "fool" | <i>zōlímís</i> ^ε | "foolishness" |

Added to adjectival stems, **-m-** produces no change of meaning: thus with resultative deverbal adjective stems in **-l-** or **-lɪm-**: *ḡ*; *vèñllìg*^a or *vèñllíŋ*^a "beautiful"; *mālísìg*^a or *mālísíŋ*^a "pleasant"; *lāllóŋ*^ɔ or *lāllíŋ*^a "distant." It may appear only in the adjective or only in the corresponding stative verb:

| | | | |
|---------------------------|---------------------|-----------------------------|------------------|
| <i>ñyèes</i> ^a | "be self-confident" | <i>ñyèesíŋ</i> ^a | "self-confident" |
| <i>nār</i> ^{a/} | "be necessary" | <i>nàròŋ</i> ^ɔ | "necessary" |
| <i>wōk</i> ^{ɔ/} | "long, tall" | <i>wā'am</i> ^{a/} | "be long, tall" |

Sometimes **-m-** seems to be introduced to avoid **gg* → *kk*: *yáaŋ*^a "grandchild", pl *yáas*^ε **yaagsi*, *yáab*^a **yaagba* "grandparent"; *vúoŋ*^a "red kapok", *vúoŋ*^ε **vuogri* "red kapok fruit" (pl *vūoŋmís*^ε "red kapoks" would have to be analogical); *bèrìŋ*^a pl *bèrìgìs*^ε *Hibiscus cannabinus*, *bèrìgā* cb *bèrìg-* pl leaves of *bèrìŋ*^a.

-l- and **-lɪm-** derive abstract nouns from nouns and adjectives. The suffix **-lɪm-** is the only derivational suffix before which *CVVC* roots do not become *CVC*, and it can follow a preceding derivational suffix, creating five-mora stems. The stems of these abstract nouns are not themselves used as adjectives.

| | | | |
|------------------------------|-------------------|-------------------------------|-------------------|
| <i>dāy</i> | "man" | <i>dàalim</i> ^m | "masculinity" |
| <i>pū'ā</i> ^a | "woman" | <i>pò'alim</i> ^m | "femininity" |
| <i>bīig</i> ^a | "child" | <i>bīilim</i> ^m | "childhood" |
| <i>tītā'al</i> ^{lε} | "proud person" | <i>tītā'alim</i> ^m | "pride" |
| <i>gīŋ</i> ^a | "short" | <i>gīñlím</i> ^m | "shortness" |
| <i>wōk</i> ^{ɔ/} | "long, tall" | <i>wā'alím</i> ^m | "tallness" |
| <i>sāan</i> ^{a/} | "guest, stranger" | <i>sáannim</i> ^m | "strangerhood" |
| <i>tīrāan</i> ^a | "neighbour" | <i>tīrāannim</i> ^m | "neighbourliness" |
| <i>gīŋ</i> ^a | "short" | <i>gīŋilím</i> ^m | "shortness" |

10 Prefixes

10.1 Nouns and adjectives

Many nouns, and one or two adjectives, have an element preceding the root which is not the combining form of any noun. Such elements will be called **noun prefixes**. Noun prefixes usually have no identifiable meanings; however, they are common in particular semantic fields, such as small animals, reptiles and insects.

Most noun prefixes fall into just a few phonological types. Segmentally, they are mostly of the shape *CV(n)*, where *V* shows only the three-way *a i v* vowel distinction of affix vowels; the *i/v* distinction itself and realisations as [i] or [u] are predictable 3.3. There is also a complex reduplicated type *CVsɪn* or *CVlɪn*. Stems with noun prefixes usually lack derivational suffixes. Prefixes have either M or L tonemes throughout, and they differ from cbs in their tonal effects on following elements 3.8.1.

A few cbs have become separated from their original paradigms through phonological simplifications and/or semantic bleaching and are effectively now prefixes. Other prefixes are related to verbal negative particles.

The personifier particle 12.6 it is not a prefix but a right-bound particle.

The simplest type of noun prefix copies the initial *C* of the root, followed by a vowel which is *ɪ* by default, but *v* after labials, labiodentals and labiovelars; *v* replaces *ɪ* before root *u/v/ɔ* and *ɪ* replaces *v* before root *i/i/ɛ*. A few forms show *Ca*. No cases occur with voiced stops or voiced fricatives.

| | | | |
|---------------------------------|--|-------------------------------|-------------------|
| <i>kòkòr</i> ^{ɛ/} | "voice" | <i>kòkòm</i> ^{mɛ} | "leper" |
| <i>kìkàŋ</i> ^a | "fig tree" | <i>kìkìrìg</i> ^{a/} | "tutelary spirit" |
| <i>k[p]òkpàrìg</i> ^a | "palm tree" | <i>kpìkpìŋ</i> ^{na/} | "merchant" |
| <i>tītā'ar</i> ^ɛ | "big" | <i>tàtəl</i> ^{lɛ} | "palm of hand" |
| <i>pīpīrīg</i> ^{a/} | "desert" | <i>sìsì'əm</i> ^m | "wind" |
| <i>lìlāalìŋ</i> ^a | "swallow" | <i>mìmīlím</i> ^m | "sweetness" |
| <i>mìmīlóg</i> ^ɔ | "sweetness" | <i>kpàkòr</i> ^{ɛ/} | "tortoise" |
| <i>tìtòmīs</i> ^ɛ | "sending" | <i>fōfōm</i> ^{mɛ} | "envy"; "stye" |
| <i>zà-sìsōbīr</i> ^{ɛ/} | "evening" (<i>zà-</i> cb of <i>zàam</i> ^m "evening", <i>sōb</i> ^ɛ "get dark") | | |

More complex is a similar type with a final nasal consonant; voiced stops and fricatives do occur with this type:

| | | | |
|---------------------------------|---------|-------------------------------|--------------------|
| <i>dòndùug</i> ^ɔ | "cobra" | <i>dìndēog</i> ^{ɔ/} | "chameleon" |
| <i>bìmbìm</i> ^{mɛ} | "altar" | <i>bòmbàrìg</i> ^a | "ant" |
| <i>kìnkàŋ</i> ^a | "fig" | <i>tìntōŋrìg</i> ^a | "mole" |
| <i>zīnzāuŋ</i> ^{ɔ/} | "bat" | <i>sīnsáañ</i> | a kind of tiny ant |
| <i>nōb-púmpàuŋ</i> ^ɔ | "foot" | | |

| | |
|------------------------------|---|
| <i>gùngōm^{mε}</i> | "kapok material" (<i>gùm^{mε}</i> "kapok fruit") |
| <i>zùnzòŋ^a</i> | "blind" (<i>zū'əm^m</i> "go/make blind") |
| <i>pòm̄p̄ōɔŋ^ɔ</i> | "housefly" (<i>tàmpūa id</i>) |

An even more complex type follows the reduplicated CV with *-sɪn* or *-lɪn*:

| | | | |
|--------------------------------|---|------------------------------|----------------|
| <i>kpìsìnkpìl^{lε}</i> | "fist" | <i>tàsìntàl^{lε}</i> | "palm of hand" |
| <i>sīlīnsīuñg^ɔ</i> | "spider" | <i>sīlīnsīug^ɔ</i> | "ghost" |
| <i>zīlīnzìog^ɔ</i> | "unknown" cf <i>zī</i> "not know" | | |
| <i>vòlīnvùuñl^{lε}</i> | "mason wasp" | | |
| <i>wàsìnwàl^{lε}</i> | parasitic gall on trees ("mistletoe" in local English) | | |
| <i>nēsīnnēog^ɔ</i> | "envious person" cf <i>nēn^{na}</i> "envy" WK others "centipede" = WK <i>nà'-nēsīnnēog^ɔ</i> | | |

Prefixes may also be of the form *Ca(n)*, where *C* is *d b n m l s* or *z*.

| | | | |
|-----------------------------|--|------------------------------|---------------------|
| <i>dàyūug^ɔ</i> | "rat" | <i>dàwān^{nε}</i> | "pigeon" |
| <i>dàtìuŋ^ɔ</i> | "right hand" | <i>dàgòbìg^a</i> | "left hand" |
| <i>dànkòŋ^ɔ</i> | "measles" | <i>dàwàlìg^a</i> | "humid season" |
| <i>dàyáam^{ma}</i> | "woman's parent-in-law" | | |
| <i>dātāa</i> | "enemy" cf <i>nìŋ-tāa</i> "co-wife", Ghanaian "rival" | | |
| <i>dàmà'a</i> | "liar" cf <i>mà'</i> "lie" | | |
| <i>dàkīig^a</i> | "sibling-in-law via wife" | | |
| <i>dādúk^ɔ</i> | a kind of large pot, cf <i>dōk^ɔ</i> "pot" | | |
| <i>bàlànìr^ε</i> | "hat" | <i>bàlàar^ε</i> | "stick, staff" |
| <i>bānāa</i> | traditional smock | | |
| <i>bālērōg^ɔ</i> | "ugly" cf <i>lēr^ε</i> "get ugly" | | |
| <i>bàyēog^ɔ</i> | "betrayal of secrets" cf <i>yēes^ε</i> "betray a secret" | | |
| <i>nānzū'us^ε</i> | "pepper" | <i>màngávŋ^ɔ</i> | "crab" |
| <i>làngávŋ^ɔ</i> | "crab" | | |
| <i>sākáròg^ɔ</i> | "fox" | <i>sàbùa</i> | "lover, girlfriend" |
| <i>sāmán^{nε}</i> | "courtyard" | <i>sāngónnìr^ε</i> | "millipede" |
| <i>zànkù'ar^ε</i> | "jackal" | <i>Zàngbèog^ɔ</i> | "Hausa person" |

Nàyīg^a "thief" is written *na'ayiig* in NT/KB as if with the cb *nā'*- "cow", but it has L toneme initially and the vowel is definitely not glottalised (WK); nor is the sense limited to "cattle thief." It is an *a|ba* class *g*-stem: pl *nàyīg-nàm^a*; cf *nàyīgīm^m* "thievery." There is an analogical *ga|se* pl *nàyīs^ε*. The Farefare cognate is *nàyìgà*, pl *nayigba* or *nayigsi*; Dagbani has *nayìɣa* pl *nayìɣsi* and also *tayìɣa*.

Some prefixes are connected with the verb negative particles *p̄v̄ k̄v̄*:

| | |
|---|---|
| <i>k̀̀nd̀̀v̀̀ar̄^ε</i> | "barren woman"; cf <i>d̄u'̀̀à^a</i> "bear, beget" |
| <i>n̄̄n-p̄̄v̄̄-n̄̄n^{na/}</i> | "disrespectful person"; cf <i>n̄̄n^ε</i> "love, respect" |
| <i>t̀̀v̀̀b-p̄̄v̄̄-ẁ̀v̀̀m̀̀n̄̄b^a</i> | "deaf people" (Rom 11:7) cf <i>t̀̀v̀̀b̀̀v̀̀r̄^ε</i> "ear", <i>ẁ̀v̀̀m^m</i> "hear." |

However, most cases show no identifiable negative meaning:

| | | | |
|---|----------|---|----------|
| <i>k̀̀nd̀̀v̀̀ŋ^a</i> | "jackal" | <i>ḡ̄v̄̄m̄̄p̄̄v̄̄z̄̄ē̄̄r̄^{ε/}</i> | "duck" |
| <i>d̄̄ā̄̄m̄̄p̄̄s̄̄ā̄̄r̄^ε</i> | "stick" | <i>b̄̄ā̄̄n-k̄̄v̄̄s̄̄ē̄̄l̄^{lε}</i> | "lizard" |

Some original cbs have become partly bleached of their original meaning and/or simplified phonologically, and then detached from their regular paradigms after being ousted by new cbs based on analogy with sg forms.

N̄̄n- "body" is accepted by WK as cb of *n̄̄ŋ^a* *n̄̄is^ε* [= Mooré *ȳ́ngá*] but the word is rare; it appears in *n̄̄n-t̄̄ā* "co-wife" and *n̄̄n-ḡ̄b̄̄ŋ^{o/}* "human skin; body."

D̄̄- "man" has been replaced as regular cb by forms segmentally remodelled on sg and pl *d̄̄u-*, *d̄̄ap-*, but *d̄̄-* is seen in *d̄̄-p̄̄ā^{a/}* "son, boy" (*p̄̄ā^lg* "new") and *d̄̄-k̄̄v̄̄ŋ^ε* "son, bachelor" (cf *àr̄̀̀k̄̄ó̄̄ñ̄̄* "one.")

P̄̄v̄̄- "woman" (cf *p̄̄u'̀̀ā^a* "woman" cb *p̄̄u'̀̀-à-*) appears in *p̄̄v̄̄-k̄̄v̄̄ŋ^ε* "widow"; cf Mooré *p̄̄v̄̄ḡ̄k̄̄v̄̄r̄̄é* "widow" along with *p̄̄v̄̄ḡ̄s̄̄á̄̄d̄̄à* "young woman" = Kusaal *p̄̄u'̀̀-à-s̄̄ā̄̄d̄̄ī̄̄r̄^{ε/}*.

P̄̄v̄̄- "farm" (cf *p̄̄v̄̄v̄̄ḡ̄^{o/}* "field, farm", pl *p̄̄v̄̄t̄̄^{ε/}*, cb *p̄̄v̄̄-*, Mooré *p̄̄v̄̄v̄̄ḡ̄ò* pl *p̄̄v̄̄t̄̄ò*) appears in *p̄̄v̄̄-k̄̄p̄̄ā̄̄d̄̄^{a/}* "farmer" (= *k̄̄p̄̄ā̄̄d̄̄^{a/}* *id*); tonally, it behaves as a M prefix 3.8.1.

N̄̄-' "chief"(?) appears before a number of nouns signifying animals and insects: *n̄̄-'* *z̄̄ò̄̄m^{mε}* "locust", *n̄̄-'* *d̄̄à̄̄w̄̄ā̄̄n^{nε/}* "pigeon" (= *d̄̄à̄̄w̄̄ā̄̄n^{nε/}*) and WK's *n̄̄-'* *n̄̄ē̄̄s̄̄ī̄̄n̄̄n̄̄ē̄̄ō̄ḡ̄^{o/}* "centipede" (*n̄̄ē̄̄s̄̄ī̄̄n̄̄n̄̄ē̄̄ō̄ḡ̄^{o/}* "envious person" WK; others: "centipede.")

The cb perhaps relates to traditional folklore; cf *à-k̄̄v̄̄r̄̄ā-d̄̄ŋ̄̄m^{ma}* "praying mantis" ("hyena's parent-in-law") and animal and bird names which incorporate the personifier particle, like *à-d̄̄ā̄̄l̄̄v̄̄ŋ^o* "stork", *à-ḡ̄ā̄̄v̄̄ñ̄̄ḡ̄^o* "pied crow", *à-m̄̄ús^ε* "cat."

10.2 Quantifiers and adverbs

Unlike noun prefixes, prefixes with quantifiers and adverbs have identifiable meanings. All such prefixed forms are liaison words [4.2](#).

All forms of the numbers 2 to 9 begin with a number prefix [12.5.1](#). The number prefixes are fossilised noun class agreement flexions. With the collapse of grammatical gender, the *a|ba* class agreement pronouns *ò bà* were generalised for animate gender and the *re|aa* class singular pronoun *lì* was adopted for inanimate. In Dagbani, where there has been a similar change, the old plural pronoun *ɲa* is still found in older materials for inanimate plural (Olawsky 1999.) The *à-* of numbers used as quantifiers like *àyí'* "two", *àtáñ'* "three" etc used as quantifiers represents original **ɲa-*. This same *à-* is also seen in *àlá* "how many?" contrasting with *àlá* "thus", which has manner-adverb *à-*.

The expected corresponding number prefix *bà-* is not now found after nouns with animate gender, but is still preserved after personal pronouns: *tì bàtáñ'* "we three", *yà bàyópòɛ* "you seven", *bà bàyí'* "they two."

The form of the number words 2-9 used for counting represents the old *mm* class agreement, in the "abstract" sense of *mm* [5.1](#): thus *ntáñ'* "three", *nnāas* "four", *nnū* "five." Nawdm, which preserves class agreement for numbers (*nídbá bàtáñ* "three people") uses the agreement prefix for its cognate *m*-class for counting: *mtáñ* "three" *mnàà* "four" *mnù* "five" etc (Babakima 2013, p51.)

The number prefix *bù-* appears in various adverbial number words; it probably represents either an old *bo* or *mm* class agreement.

| | | | |
|---------------------|---------------|----------------|---------------|
| <i>àbùyí'</i> | "twice" | <i>àbùtáñ'</i> | "three times" |
| <i>àbùnnāasí</i> | "four times" | <i>bùpīgā</i> | "ten times" |
| <i>nōrím bàtáñ'</i> | "three times" | | |

Several manner-adverbs have a prefix *à-* along with apocope-blocking [13.4](#). It is followed by M spreading. It differs from the number prefix in that it does *not* cause a preceding LF-final vowel to appear as *-a*.

| | | | |
|--------------|------------|--------------|---------|
| <i>àmēɲá</i> | "truly" | <i>àsīdā</i> | "truly" |
| <i>àníɲà</i> | "promptly" | | |

The same prefix is also seen in a number of proadverbs and in the locative *àgól^{lɛ}* "upwards."

11 Unsegmentable complex stems

Numerous words in Kusaal (including *Kōsâal*^ε itself) have stems more complex structurally than ordinary unprefixated types but which are simply unanalysable. Most resemble forms with noun prefixes tonally, but examples occur with initial H, like *gbáñyà'a* "lazy person", cf Dagbani *gbinyaɣli* "laziness." Segmentally, they may contain unusual consonant clusters. Most are loanwords, but by no means all. Many names of ethnic groups and clans fall into this category, such as *Kōsâas*^ε "Kusaasi", *Ñwāmpūrīs*^{ε/} "Mamprussi", *Kòtām*^{ma/} "Kotamba" (WK's clan.)

11.1 Loanwords

Nouns are by far the largest group of identifiable loanwords. They are often fitted into the noun class system by analogy 5.5. The initial *à-* of loanwords like *àràzánà* "heaven" and *àràzàk*^a "riches" is usually treated tonally as fixed-L 4.4.

Most identifiable loanwords come from **Hausa**, which is used by millions as a lingua franca in the savanna zone of West Africa. There are many ethnic *Hàusàawaa* in the Kusaasi area, especially in Bawku, but the language which has influenced Kusaal is the *Gaanancii* lingua franca; though mutually intelligible with Kano Hausa, *Gaanancii* among other differences uses [z] for [ḏ̥], monophthongises diphthongs, drops the distinction between glottalic consonants and their plain counterparts, and lacks not only grammatical but even natural gender.

Nouns borrowed from Hausa often deviate from typical Kusaal noun structure. Examples include *dāká* "box", Hausa *àdakàa* (ultimately from Portuguese *arca*); *gādō* "bed", Hausa *gadoo*; *kèkèkè* "bicycle", Hausa *kèkèkè*; *bákpàḡ* "week", from Hausa *bakwàì* "seven", also used for "week" in *Gaanancii*.

Borrowed verbs are much less common. They are subject to the usual constraints on verb shapes 9.1, e.g. *dàam*^m "disturb, trouble", Hausa *dàamaa*; *bùḡ*^ε "get drunk", Hausa *bùgu*, literally "get thoroughly beaten", a Hausa idiom.

Several function words are loans, probably from Hausa: *àsée* "except", Hausa *sai*; *kōv* "or", Hausa *koo*; *báa* "not a...", Hausa *bâa*.

Loanwords with Hausa counterparts did not necessarily originate in Hausa, itself a great borrower. Some appear in many languages of the region, e.g. *hālí* "until", Hausa *har*, Kikara Songhay *hálì*, possibly from Arabic *ḥatta*: (Heath 2005.) With *làbì*^{ya} "be crouching behind something", Hausa *labèe* "crouch behind something to eavesdrop", Kikara Songhay *lá:bú* "hide behind or under something", the match of form and meaning is striking; if *làbì*^{ya} is a loan, its single-aspect flexion and dual-aspect derivatives are probably due to the analogy of *vābì*^{ya/} "be lying prone."

Wide geographical distribution need not rule out Hausa origin or transmission, however: loans from Hausa have travelled far in West Africa, with an entry point into Songhay via the Zarma and Kaado languages of Niger.

Arabic loans are frequent throughout the languages of the Sahel and Savanna; thus, among many others: Kusaal *láafiyà*, Hausa *laafiyàa*, Mooré *làafi*, Kikara Songhay *ʔàlà:fiyà* "health", Arabic *ʔal-ʕa:fiya* "the wellness"; Kusaal *àràzàk^a*, Hausa *arzikii*, Mooré *àrzéká* "riches", Kikara Songhay *ʔárzúkù* "good luck", Arabic *ʔar-rizq* "the livelihood" pl *ʔarza:q*; *àràzánà* "heaven, sky", Hausa *àljannàa*, Mooré *àrzǎnà*, Kikara Songhay *ʔàljánnà* "heaven, paradise", Arabic *ʔal-janna* "the garden, paradise"; Kusaal *yàddā^l* "assent", Hausa *yàrda* (verb) "consent", Kikara Songhay *yárrè* "consent", probably from the Arabic *yard^ʕa:*, 3sg masculine ipfv of *rad^ʕiya* "be satisfied"; Kusaal *Tàláatà*, Hausa *Tàlaatàa*, Arabic *ʔaθ-θala:θa:ʔ* "Tuesday."

Arabic words have mostly entered Kusaal via Hausa, but some Kusaal forms more closely resemble **Mooré**. Many Mossi live in the Kusaasi area, and many Kusaasi speak Mooré well; they often attribute local or individual peculiarities of Kusaal speech to Mooré influence. Arabic words have reached Mooré from several other West African languages widely used by Muslims, including Dyula and the Songhay languages. Thus *màlǐāk^{al}* "angel" (*malek* in NT versions prior to 2016) is derived from the Arabic *malʔak*; the vocalism suggests transmission via Mooré *màlékà*. The forms clearly do not match Hausa *màlaa'ikàa*, which is from the Arabic plural *mala:ʔika*. Similarly, *Sǔtáanà* "Satan" matches Mooré *Sutǎana* rather than Hausa *shàidǎn*, which is a learned borrowing of the Arabic *ʕayt^ʕa:n*.

Christian missionary work among the Kusaasi began in Haute Volta (now Burkina Faso) and used Mooré materials, leading to borrowing and calquing. *Wínnà'am^m* (WK) *Wínà'am^m* (*Wina'am* NT/KB) is "God" in Christian materials, though the Creator of traditional religion often appears simply as *Wīn^{ne/}* in proverbs etc. *Wínnà'am* looks like a compound of *wīn^{ne/}* "god" and the stem of *nà'ab^a* "chief" or *nā'am^m* "chieftaincy", but the tones would then have been **Wīn-nā'am*, and the prevalence of *Wínà'am* with single *n* confirms that the form is not a synchronic compound. Direct borrowing of Mooré *Wěnnàám* would not account for the glottalised *a'a*, and the immediate source is probably **Toende Kusaal**. Niggli has *Wínā'am*, with a tonal fall like Agolle *Wínà'am*, and single *n*, reflecting the loss of consonant gemination in Toende everywhere except before LF affix vowels.

Faangid "saviour" (NT/KB) is read [fã:g̚ɪd] by my informants; preservation of *g* in this environment is exceptional, the only other cases in my data being *faangir* "salvation" and the gerund *zī'əg^a* of *zī'e^{ya}* "be standing" used by DK KT instead of *zī'a*. The agent noun of *fāe^l* "save" is *fāāñd^{al}*, identical to the agent noun of *fāñ* "snatch", NT/KB *faand* "robber"; WK confirmed that *fāāñd^{al}* has *both* meanings in his idiolect. *Faangid* is probably another loan from Toende Kusaal, which can retain **g* in this position: Niggli has *fāagit* and *fāat* for "saviour", with *fāat* also glossed "robber." *Wínà'am fāāñgíd fāāñgír* are used by many Agolle speakers. Older NT versions also wrote the Toende forms *aaruŋ* (Toende *ǎarùŋ*) for *ǎnrùŋ* "boat", and *malek* (Toende *màlék*, Mooré *màlékà*) for *màlǐāk* "angel", but KB has *anrvŋ* and *maliak* throughout, matching the usage of my informants and of the audio 1996 version.

A clear **Mampruli** loanword is WK's *k̄ībú* cb *k̄īb-* "soap", which he uses instead of Kusaal *k̄ī'ib^{3/}*. The length and quality of the vowels identify the source as Mampruli *kyiibu*: contrast Farefare *kí'íbó*, Dagbani *chibo*. Other words with singulars ending in *-i* or *-u* also probably originated as loans from Mampruli or Mooré.

Loanwords of **Songhay** origin include *bùrkìn^a* "honest person", Mooré *bùrkĩná* "free, noble", Dagbani *bilchina* "free, not slave", cf Kikara Songhay *bòrkĩn* "noble (caste)" and *bàṽṽ*, used only in *kpèñ' bàṽṽ* "get circumcised" (*kpèñ'* "enter"), Mooré *kě bǎongó id*, cf Kikara Songhay *bàngù* "pool, spring", *à hùró bàngù* "he entered the pool", i.e. "he was circumcised."

Loans from **Twi/Fante** ("Akan"), the major lingua franca of southern Ghana, include *kōdú* "banana", Twi *kwadu*; *sāfī* "lock, key", Twi *safē* "key" (from Portuguese *chave*); *būrīyá* "Christmas", Twi *bronya*.

English loanwords sufficiently naturalised to be used by speakers unfamiliar with English have often undergone considerable changes: *àlópìr^ε* "aeroplane", perhaps a back-formation from [alɔpɪlɪn] taken as a locative *àlópìrī=n^{ε/}*; *dú'atà* "doctor" (cf Dagbani *dóyté id*); *tóklàe* "torch" ("torchlight"); *lór^ε* "car, lorry" (often borrowed even in Francophone Africa: cf Mooré *lorè*, Nawdm *lòór*); *pɔɔtim* (Jeremiah 20:10) "complain about officially" ("report.")

English stress may be represented by a H toneme which remains fixed throughout the paradigm: *lòyà* "cars", not **lōyá*.

Several words of English origin have probably been transmitted via Hausa: *kótò* "court", Hausa *kootù*; *sógià^a* "soldier", Hausa *sojà*; *téebùl^ε* "table", Hausa *teebùr*; *wādá* "law", Hausa *oodà*, from English "order", with Kusaal sg *wādīr^{ε/}* cb *wād-* created by back-formation.

A clear **French** loan in Agolle Kusaal is *làmpō* (i.e. *l'impôt*) "tax", as in *làmpō-dī'əs^a* "tax gatherer." This word is widespread in northern Ghana (Dagbani *lampoo*), reflecting extensive French influence in the region prior to the British annexation. Another word probably derived from French is *kàsēt^{a/}* "witness, testimony", Mooré *kàsétò* "testimony, proof", as in *kàsét sébrè* "receipt" ("evidence writing.") The ultimate origin is probably French *cachet* in the sense "seal (of authenticity)", with *-t-* perhaps introduced from the corresponding verb: *il cachète* "he seals." Mooré and Farefare *kàsétò* have only the abstract sense "testimony"; the adaptation as an *a|ba* class human-reference noun "witness" seems to be a Kusaal innovation enabled by the dropping of the final vowel.

There are naturally many more French loans in the Toende Kusaal of Burkina Faso (Niggli 2014.)

12 Noun phrases

12.1 Structure

A nominal phrase may be either a noun phrase (NP) or an adverbial phrase (AdvP.) A noun phrase has a noun, pronoun or quantifier as head. If present, the **article** *lā'* occurs last in a NP. (For the sole exception, see [16.11](#).)

Unbound dependent NPs may precede the head recursively. Some pronouns have specialised roles as NP heads; otherwise the meanings correspond to the wide range expressed in English by genitives or NP complements with "of", e.g.

| | |
|---------------------|------------------------------------|
| <i>dāy lā bûtìŋ</i> | "the man's cup" ("cup of the man") |
| <i>sālmā bûtìŋ</i> | "a gold cup" ("cup of gold") |

Predependents with specific or countable-generic reference are **determiners** (answering "which?"), as are the article, dependent pronouns, quantifiers or AdvPs following the NP head; other dependents are **modifiers** (answering "what kind of?")

Relative clauses [21.2](#) are also NPs.

Compounding is pervasive in NP structure where most languages use uncompounded constructions. Kusaal compounds fall into two basic types, depending on whether the combining form is head or dependent. Compounding is the regular construction for head nouns with following adjectives and dependent pronouns:

| | | | |
|----------------|-------------|----------------------|-------------------|
| <i>bōvg</i> | "goat" | <i>bù-ṛìə̀lìg</i> | "white goat" |
| <i>bù-kàŋā</i> | "this goat" | <i>bù-ṛìə̀l-kàŋā</i> | "this white goat" |

Compounds with non-referential cbs as *dependents* are also common:

| | |
|------------------------------|----------------------------|
| <i>nà'ab lā wíd-zōvr</i> | "the chief's horse-tail" |
| vs <i>nà'ab lā wíəf zōvr</i> | "the chief's horse's tail" |

Regardless of which element precedes, the last stem shows the noun class suffixes which mark number for the head. Preceding stems appear as combining forms, typically bare stems which have undergone apocope, though analogical remodelling is common, and regular with some stem types [5.2](#). Compounding is so productive that the cb is a regular part of noun and adjective flexion [5.1](#).

For the tone sandhi rules which affect the component following the combining form see [4.4](#) [4.5](#). They are not sensitive to whether the cb is head or dependent.

Compounds may have compound components, most often as a result of the addition of an adjective or dependent pronoun to an existing compound, where the binding of the new element is weaker than that within the existing compound:

| | |
|-------------------------|---|
| <i>[bù-pìəl-]kàṅā</i> | "this [white goat]" |
| <i>[nīn-wók-]pìəlìg</i> | "white [tall person]" |
| <i>[zà'-nō-]pìəlìg</i> | "white gate" ("white [compound-mouth]") |

A compound may appear as generic argument to a following deverbal noun:

| | |
|----------------------------|----------------------|
| <i>[zà'-nō-]gúr</i> | "gate-keeper" |
| <i>[[zà'-nō-]gúr-]kàṅā</i> | "this [gate-keeper]" |

Noun-adjective compounds can be used as bahuvrihi adjectives [12.8.1.1](#):

| | |
|----------------------|-----------------------|
| <i>kùg-[nōb-wók]</i> | "[long-legged] stool" |
|----------------------|-----------------------|

Compounds may contain uncompounded elements within their structure.

Determiners always bind looser than modifiers. Cbs as modifiers bind tighter to following than preceding words, but cbs as generic arguments bind closer to preceding modifiers than to the following word:

| | |
|--------------------------------------|---|
| <i>[sālimā bútìṅ-]kàṅā</i> | "this [gold cup]" |
| <i>[[sālimā lá'-]màan-]kàṅā</i> | "this [[gold-item]-maker]" |
| <i>ò [[sālimā lá'-]māan]</i> | "her [[gold-item]-maker]" |
| <i>sālimā [zá'-nōr]</i> | "golden gate" ("golden [compound-mouth]") |
| <i>zūgú=n [níf-gbáṅ]</i> | "upper eyelid" ("upper [eye-skin]") |
| <i>ānzúrifà nē sālimā lâ'ad</i> | "silver and gold goods" |
| <i>[ānzúrifà lá'-]māan</i> | "silversmith" ("[silver goods]-maker") |
| <i>[ānzúrifà nē sālimā lá'-]māan</i> | "silver- and goldsmith" |

Adjective cbs can only be used before an adjective or a dependent pronoun: a noun-adjective compound as a generic argument must adopt a sg or pl form:

| | |
|--------------------------|-----------------------------------|
| <i>[fū-zéñdà] kùəs</i> | "seller of red (i.e. dyed) cloth" |
| not <i>*fū-zéñ'-kùəs</i> | |

Coordination is characteristically a feature of NPs, but also found in AdvPs.

The particles for "or" are *bēε* or *kōv*, synonymous in this usage. By default they are taken as exclusive "or" but can admit the inclusive interpretation "or both":

| | |
|--|--|
| <i>Dāy lā ñyé bī-díbiṅ kōv bī-púṅàa=ø?</i> | |
| Man:SG ART see child-boy:SG or child-girl:SG=PQ? | |
| "Did the man see a boy or a girl?" | |

Bīg lā kōv dāy lā kōv bà wōsā

child:SG ART OR man:SG ART OR 3PL all

"The man, or the child, or both" WK

The particle for "and" for NPs and AdvPs is *nē*, fundamentally the same word as the preposition "with"; it can only link clauses if they have been nominalised. It is not possible to omit coordinating particles in a series of three or more items, or to use *nē* to join two words with the same referent:

À-Wīn né À-Bōgūr né À-Nà'ab

"Awini, Abugri and Anaba"

dú'atà nē nà'ab

"a doctor and a chief" (two people)

Coordinated heads may not share determiners:

m ba'abiis ne m saamnama

m̄ bā'-b̄iis né m̄ sām-nāmā=∅

1SG father-child:PL with 1SG father-PL=VOC

"my siblings and [my] fathers!" (Acts 7:2)

py'ā lā nē dāy lā

"the woman and the man"

woman:SG ART with man:SG ART

An exception is *yīgá* "firstly" used as a predependent for "first" [12.7.3](#):

yīga saṅgbaṅ ne teṅgbaṅ ne atēuk

yīgá sàṅ-gbàṅ nē téṅ-gbàṅ né àtīuk

firstly heaven-skin:SG with earth-skin:SG with sea:SG

"the former heaven and earth and sea" (Rev 21:1)

Coordinated heads may share modifiers by ellipsis:

Kōsāal sōlīmà nē sīlīmà

"Kusaasi stories and [Kusaal] proverbs"

Kusaal story:PL with proverb:PL

Kōsāas kūøb nē yīr

"Kusaasi farming and [Kusaasi] housing"

Kusaasi:PL hoeing with house:SG

sālimā bótīis nē díisímà

"gold cups and [gold] spoons"

gold cup:PL with spoon:PL

("all of them gold", KT)

However, KT WK both agreed that *sālimā lâ'ad nē bōtīs* must mean "gold goods and [not gold] cups", WK offering the correction

sālimā lâ'ad nē ò bōtīs "gold goods and (gold) cups" WK
gold item:PL with 3AN cup:PL (for ò referring to *sālimā* see 12.3)

Tony Naden notes that "cups" being a subtype of "goods" impairs the parallel between the coordinated units, making it less natural to supply the ellipsis.

Coordinated heads may even occur before an adjective:

Ka m nye saṅgbauṅ nē teṅgbaung paal.

Kà m ñyē sáṅ-gbàṅ- nē téṅ-gbàṅ-páal

And 1SG see heaven-skin- with earth-skin-new:SG.

"And I saw a new heaven and a new earth." (Rev 21:1)

However, cbs as *dependents* may not be coordinated:

*[*bēḡíd nē kī*] *kūəs* not possible for "seller of *bēḡíd nē kī*"
(beanleaf-and-millet, a traditional snack)

Dependent NPs or AdvPs can naturally include coordinated components:

o nya'andolib pii nē yi "his twelve disciples" (Mt 26:20)
ò ñyà'an-dòllìb pīi nē yí'
3AN disciple:PL ten with two

dú'atà nē nâ'ab lā lóyà "Doctor's and the chief's cars"
doctor:SG with chief:SG ART car:PL

sālimā nē ānzúrfà lâ'ad "gold and silver goods"
gold with silver item:PL

The last two examples are ambiguous; they can also be construed as ellipsis of the first of two identical heads within a coordination of two dependent-head NPs:

| | | |
|----|--|--|
| | <i>dú'atà (lóyà) nē nâ'ab lā lóyà</i> | "[Doctor's cars] and [the chief's cars]" |
| | <i>sālimā (lâ'ad) nē ānzúrfà lâ'ad</i> | "[gold goods] and [silver goods]" |
| vs | <i>[dú'atà nē nâ'ab lā] lóyà</i> | "the cars of [Doctor-and-the-chief]" |
| | <i>[sālimā nē ānzúrfà] lâ'ad</i> | "[gold-and-silver] goods" |

This is impossible if the ellipited element would have been a cb: an elliptical reading of *ānzúrɪfà nē sālɪmā lá'-māan* "silver- and goldsmith" would have to mean "a smith made of silver and a smith made of gold."

NPs can also be combined by **apposition**. For apposition of locatives see [13.3](#); for relative clauses see [21.2](#).

NPs may precede personal names in apposition. The personifier particle is not omitted, showing that the relationship is not dependent-head [12.6](#).

Li pu nar ye fu di fu ba'abiig po'a Herodiase.

Lì p̄ nār yé fù dí fù bā'-b̄iig p̄'á Herodiasε=∅.

3IN NEG.IND must that 2SG take 2SG father-child:SG wife:SG Herodias=NEG.

"It's not right for you to marry your brother's wife Herodias." (Mt 14:4, 1996)

... lebis ye, eenn, o zua Asibigi n kabirid.

... ∅ lèbìs yē, Ēēñ, ò zuà À-Sībīgī n kābiríd.

...CAT reply that, Yes, 3AN friend:SG PERS-termite:SG CAT ask.admission:IPFV.

"...replying that, Yes, it was his friend Termite asking for admission." KSS p12

Personal pronouns in apposition use free forms [24.6](#):

Man Paul [...] *pv'v̄sidi ya.* "I, Paul ... greet you." (2 Thess 3:17)

Mān Paul [...] *pú'v̄sìdī=yá.*

1SG Paul greet:IPFV=2PL.

Apposition is to be distinguished from cases where a preceding head has no combining form, as with quantifiers, or coordinated structures, and also from cases of segmental remodelling of cbs [5.2](#). The 1996 NT has *Nonaar Paal* for 1976 *Nonapaal Nō-ná-páal* "New Testament", *Siig Sun* for *Sisun Sî-sùŋ* "Holy Spirit", but the audio NT has *Sîg-sùŋ* (*Sîg-sùŋ* with M spreading) or *Sî-sùŋ*, never **Sîg-súŋ*.

12.2 Number

Number is a category only of nouns, pronouns and quantifiers. Agreement is confined to pronouns. However, in a compound of a noun with a following adjective or dependent pronoun, the *dependent* inflects to show the number of the head [12.8](#).

Count nouns distinguish sg/pl, unlike **mass** nouns, which characteristically refer to liquids, substances or abstractions. Count nouns may be abstract:

zōɔg^o

zōɔs^ε

"race"

bū'əsúg^o

bū'əsá

bū'əs-

"question"

zàaŋsúg^o

zàaŋsímà

zàaŋsúg-

"dream"

The count/mass distinction affects the choice of quantifiers [12.5](#), the form of plurals with *nàm*^a [5.4](#), and the meaning of NPs as predependents [12.7.2](#).

Typical underived mass nouns belong to the *bɔ* and *mm* noun classes, but gerunds of 3-mora-stem verbs regularly show sg *rɛ* or *gɔ*, and a number of words referring to uncountables or abstracts are formally plural, but construed as singular:

| | | |
|--------------------------------|---------------|----------------|
| <i>bāñ'as</i> ^ɛ | <i>bāñ'-</i> | "disease" |
| <i>ñyɔ'ɔs</i> ^{ɛ/} | <i>ñyɔ'-</i> | "smoke" |
| <i>tàdɪmís</i> ^ɛ | | "weakness" |
| <i>zɔ̀lɪmís</i> ^ɛ | | "foolishness" |
| <i>mēt</i> ^{ɛ/} | <i>mēt-</i> | "pus" |
| <i>kūt</i> ^ɛ | <i>kūt-</i> | "iron" |
| <i>zùød</i> ^ɛ | | "friendship" |
| <i>bōvd</i> ^ɛ | | "innocence" |
| <i>sīĩnd</i> ^{ɛ/} | | "honey" |
| <i>n̄ĩn-pōvd</i> ^ɛ | | "pus" |
| <i>wāad</i> ^{ɛ/} | | "cold weather" |
| <i>sūñ-pêen</i> ^{nɛ} | | "anger" |
| <i>kɥ'á-nūud</i> ^{ɛ/} | | "thirst" |
| <i>sālɪmā</i> | <i>sàlɪm-</i> | "gold" |
| <i>sìdà</i> | <i>sìd-</i> | "truth" |

Kūt^ɛ is also "nail"; the original sg *kūdōg*^ɔ appears in the name *À-Kūdōg*^ɔ [26.2](#). So too with a number of irregularly formed deverbal abstract nouns:

| | | | | |
|--------------------------------|--------------------|----|----------------------------|------------------------|
| <i>gēēñmís</i> ^ɛ | "madness" | ← | <i>gēēñm</i> ^{m/} | "madden, go mad" |
| <i>bùdɪmís</i> ^ɛ | "confusion" | ← | <i>bùdɪm</i> ^m | "confuse" |
| <i>tìtōmīs</i> ^ɛ | "sending" | ← | <i>tòm</i> ^m | "send" |
| <i>zīid</i> ^{ɛ/} | "carrying on head" | ← | <i>zī</i> | "carry on head" |
| <i>vūud</i> ^{ɛ/} | "noise" | ← | <i>vū</i> | "make a noise" |
| <i>kēn</i> ^{nɛ/} | "arrival" | ← | <i>kēñ</i> | "come" |
| <i>pìàñ'ad</i> ^ɛ | "speech" | ← | <i>pìāñ</i> ^a | "speak" (irreg. tones) |
| [sg <i>pìàɥñk</i> ^ɔ | "word"] | | | |
| <i>dì'əmà</i> | "festival" | ← | <i>dì'əm</i> ^m | "play, not be serious" |
| <i>tōvmā</i> | "work" | ← | <i>tòm</i> ^m | "work" |
| [sg <i>tōvm</i> ^{mɛ} | "deed"] | | | |
| <i>tēñ'esá</i> | "thought" | cf | <i>tēñ'esá yīnní</i> | "one thought" |

A single object may be referred to by a plural naming its components:

| | | | |
|----|---|----------------------------------|---------------|
| | <i>dà-p̄vɔdá</i> | <i>dà-p̄vɔdá nàm^a</i> | "cross" |
| cf | <i>dà-p̄vɔdí^r</i> ^ε | <i>dà-p̄vɔdá</i> | "cross-piece" |

A Kusaal plural may just happen to correspond to an English mass noun:

| | | | |
|--------------------------|--------------------------|----------------------------|---------------------|
| <i>lāyuk^o</i> | <i>lā'ad^ε</i> | <i>là'-</i> | "piece of goods" |
| <i>lā'af^o</i> | <i>līgīdī</i> | <i>là'-</i> or <i>līg-</i> | "cowrie" pl "money" |

Mass nouns can be used in count senses: *dāam nám* "beers."

Some count nouns can have mass senses:

| | |
|---------------------|---|
| <i>fūug dōɔg</i> | "tent" (cloth hut): <i>fūug</i> "item of clothing, shirt" |
| <i>dàad b̄n-nám</i> | "wooden things": <i>dàad</i> "pieces of wood" |

12.3 Gender

Gender is marked only in pronouns. It is natural, distinguishing **animate** from **inanimate**. Not only human beings, but also supernatural beings, "fairies" and the like have "animate" gender. Without a context, my informants all rejected

**Ò à nē náaf.* attempted "It is a cow."
3AN COP FOC COW:SG.

Nevertheless, written sources often use animate pronouns for higher animals:

Ka wief ya'a sigi li ni, li zuluη na paae o salibir.

Kà wìəf yá' sīgí_┘ lì nī, lì zùlòη ná pāe ò sàlibìr.

And horse:SG if descend 3IN LOC, 3IN depth IRR reach 3AN bridle:SG.

"If a horse goes down in it, its depth will reach its bridle." (Rev 14:20)

In stories where animals speak, they are naturally assigned animate gender. Even body parts have animate gender when represented as speaking in

Nɔbir ya'a yelin ye, "Man ka' nu'ug la zug, m ka' ningbiη la nii," lin kv nyaŋi ke ka o ka' ningbiη la nii.

Nóbìr yá' yèlì=n yē, Mán kā' nù'ug lā zúg, m kā' n̄n-gb̄īη lā

Leg:SG if say=DP that 3AN:NZ NEG.BE hand:SG ART upon, 1SG NEG.BE body:SG ART

ní=∅, līn kú ñyāñī_┘ ∅ ké kà ò kā' n̄n-gb̄īη lā ní=∅.

LOC=NEG, DEM.IN NEG.IRR prevail CAT cause and 3AN NEG.BE body:SG ART LOC=NEG.

"If a leg said, 'Because I am not a hand, I am not in the body', that could not cause it not to be in the body." (1 Cor 12:15)

Trees are animate in the traditional world view:

Tiig wela bigisid on a si'em.

Tiig wélà bìgìsìd ón àñ sī'em.

Tree:SG fruit:PL show:IPFV 3AN:NZ COP INDEF.ADV.

"The fruit of a tree shows what ["how"] it is." (Mt 12:33, 1976)

Babies may be counted as animate or inanimate gender:

Ò/Lì à nē bí-līa.

"He/she/it is a baby."

3AN/3IN COP FOC child-baby:SG.

The relevant distinction is thus whether the referent is being regarded as a "person"; if first or second person pronouns might apply, the gender is "animate."

A specific human/non-human distinction appears in morphology, where the *a|ba* noun class has exclusively human reference. Elsewhere, such distinctions are lexical, as with *nīn-* "person" vs *bōn-* "thing" as dummy cbs with adjectives. The use of human-reference nouns specifically as adjectives [12.8.1.2](#) reflects the fact that if such nouns are not unique identifiers or labels for roles they are descriptive.

The current gender system distinguishes animate/inanimate in the singular with no distinction in the plural. In older sources like the 1976 NT (as in older Dagbani) inanimate pronoun forms used as heads, like demonstrative *nē*^l, are used indifferently for sg or pl, occasionally with *nām*^a plurals to avoid ambiguity. However, even the 1976 NT always uses the animate plurals *bāmmā*^l *bān*^ε *sīəbā* of the *dependent* pronouns for inanimate, and my informants use the animate plural forms of all pronouns freely for both genders both as dependents and heads:

Bà à nē kūgá.

"They are stones."

3PL COP FOC stone:PL.

In unselfconscious utterances animate pronouns often appear for inanimate; speakers correct the gender to inanimate if their attention is drawn to it.

Nīf-káŋā, ōn sāñ'am nē.

Eye-DEMST.SG, 3AN.CNTR spoil FOC.

"This eye, it's spoilt." KT (Overheard)

Ì pō ñyēó=o=ø.

"I can't find it [a stethoscope]" (Overheard)

1SG NEG.IND see=3AN=NEG.

sālmā lâ'ad né ò bōtīs "gold stuff and (gold) cups" WK
gold item:PL with 3AN cup:PL

The dummy subject pronoun "it" is always *lì*, never *ò*.

The inanimate sg pronoun subject *lì* is not changed to animate *ò* to agree with an animate complement of *àḡñ^{ya}* "be something":

Li anε Zugsoḃ la. "It is the Lord." (Jn 21:7)
Lì à nē Zūg-sóḃ lā.
3IN COP FOC Lord ART.

12.4 Pronouns

12.4.1 Personal

| | | Right-bound | Enclitic | Free | Subject+ <i>ḡ</i> |
|----|----------|------------------------|----------------------|--|--------------------------|
| Sg | 1st | <i>m̄</i> | <i>m^a</i> | <i>mān</i> SF <i>mánè</i> LF | <i>mán</i> |
| | 2nd | <i>fḃ</i> | <i>f^o</i> | <i>fōn</i> SF <i>fónè</i> LF | <i>fón</i> |
| | 3rd an | <i>ò</i> | <i>o</i> | <i>ōn^ε</i> | <i>ón</i> |
| | 3rd inan | <i>lì</i> or <i>dì</i> | <i>li</i> | <i>līn^ε</i> or <i>dīn^ε</i> | <i>lín</i> or <i>dín</i> |
| Pl | 1st | <i>tì</i> | <i>ti</i> | <i>tīnám^a</i> | <i>tīnámì</i> |
| | 2nd | <i>yà</i> | <i>ya</i> | <i>yānám^a</i> | <i>yānámì</i> |
| | 3rd | <i>bà</i> | <i>ba</i> | <i>bān^ε</i> | <i>bán</i> |

"an" = animate, "inan" = inanimate.

Toende Kusaal has *ṽ* for *ò* (probably ← **ḡmṽ*) and *tṽn nam* for *tīnám yānám*.

Mām also occurs for 1sg in any role. The bound forms are non-contrastive; they are all liaison words 4.2. The liaison enclitic pronouns are used for VP objects, right-bound for all other roles. Personal pronouns are never dependent: in e.g. *m̄ bīḡ* "my child", *m̄* is the head of its own NP, and it is *this NP* which is the predependent of *bīḡ* "child", exactly like *nà'ab lā* "the chief" in *nà'ab lā bīḡ* "the chief's child." There are no possessive pronouns.

The "+*ḡ*" forms are used as subjects in *ḡ*-clauses 21. The 2pl subject has an enclitic form ^{ya} used *after* imperatives 18.3 with the allomorph *ní* before liaison.

Free forms may be used for cbs before relative pronouns:

Fḃn kanε buoli fḃ mēḡ ... "You who call yourself ... (Rom 2:17)
Fḃn-kánì bùèlì fḃ mēḡ ...
2SG-REL.SG call 2SG self ...

Fvne an dau kan la! "You are that man!" (2 Samuel 12:7)
Fvñĩ ∅ *áñ dáy-kàn lā!* [i.e. in the story just related.]
 2SG.CNTR CAT COP man-DEM.SG ART!

Lìnè? "Which one?"
Nĩf-kánè? "Which eye?"
Nĩn-kánè? "Which person?"

The "long" series are used for spatio-temporal deixis. They do not distinguish near and far except with sg inanimate heads; elsewhere, "that" can be specified by following the demonstrative with *lā'* and "this" by a following *ñwà* (cf French *là* and *ci*.) This use of *lā'* as deictic is enabled by the fact that demonstratives automatically make the NP definite 12.8.5.

sān-káñā "at this/that time"
dàŷ-kàñā sām "this/that man's father"
dàŷ-kàñā lā sām "that man's father"
dàŷ-kàñā ñwá sām "this man's father"

Ōñā' lìnā' nē'ñá nē' appear only as NP heads, and *òñ^ε lìn^ε* cannot follow a cb; however, *bàmmā' bān^ε* can be used either uncompounded or after a cb.

Kàn^ε kàñā' are only used as dependent pronouns, and if the head is a noun or noun-adjective compound it must be a cb (sometimes remodelled on the sg.) *Kàn^ε* may also follow a free personal pronoun, and *àràkón'* "one", but no other quantifiers. NT avoids *kàñā' kàn^ε* for animate gender.

dú'atà lā lór-kàñā "this car of the doctor's"
bù-kàñā lā "that goat"
nō-pîl-kàñā "this white hen"
fvñ-kánì bùel ... "you who call ..."

12.4.3 Indefinite

| Animate sg | Inanimate sg | Plural |
|-------------|--------------------------|-------------------------------|
| <i>sō'</i> | <i>sī'əl^a</i> | <i>sīəbā</i> (unlotted vowel) |
| <i>sī'a</i> | <i>sī'a</i> | |

Sō' sī'əl^a sīəbā may be heads or dependents, and may follow cbs. *Sī'a* is only dependent; for NT WK (not KT) it is much commoner than *sī'əl^a* as dependent. WK feels *sī'a* is pejorative if used for people. For indefinites in relative clauses see 21.2.1.

The sense is "some, someone, something", "a certain", indefinite but *specific*:

yà bì-sō' "a certain child of yours"
2PL child-INDEF.AN

The meaning is often "another, a different" (cf Hausa *wani*, Jaggar p314.)

Mεεri one an Magdalen ne Μεεri sō'
Meeri ónì àñ Magdalen nē Meeri sō'
Mary REL.AN COP Magdalen with Mary INDEF.AN
"Mary who was Magdalen and another Mary" (Mt 28:1)

Ṁ ná tī=f tí-sī'a.
1SG IRR give=2SG medicine-INDEF.IN.
"I'll give you a different medicine." WK

Indefinite pronouns can be used in presentational constructions, but often still imply "another, a different": *Dāy dāa bé ...* "Once there was a man ...", but

Dāy-sō' dāa bé ... "There was a certain/another man ..."
Man-INDEF.AN TNS EXIST ...

Sō'/sī'əl mé-kàmà means "anyone, anything, everyone, everything":

O niṅid si'el mekama sv'vḡa.
Ò niṅìd sī'əl mé-kàmà súḡā.
3AN do:IPFV INDEF.IN also-whatever good:ADV.
"He does everything well." (Mk 7:37)

With negatives the indefinites mean "nobody, nothing":

Ka sō' kudin ku len nyee li ya'asa.
Kà sō' kōdīm kú lēm ñyēε=ī yá'asā=∅.
And INDEF.AN ever NEG.IRR again see=3IN again=NEG.
"Nobody will ever see it again." (Rev 18:21, 1996)

Sō' kā'e=∅. "There's nobody there."
INDEF.AN NEG.BE=NEG.

Ṁ pō yél sī'əlā=∅. "I didn't say anything."
1SG NEG.IND say INDEF.IN=NEG.

12.4.4 Interrogative

Animate

ànḡ'ɔn^ɛ "who?"

Inanimate

bō "what?"

Plurals with *nàm^a* may be used if a specifically plural answer is being sought. *Bō kím̄m* "what exactly?" with the ideophone *kím̄m* is common in KB.

The initial *à-* of *ànḡ'ɔn^ɛ* behaves like the manner-adverb prefix in liaison [4.2](#):

... *keŋ tisi anḡ'ɔnɛ?* "to go to whom?" (1 Samuel 6:20)

... *kēŋ ∅ tísì ànḡ'ɔnè=∅?*

... go CAT give who=CQ?

Bō can be used after a cb as a dependent interrogative "what?":

nā'-bó?

"what cow?" WK DK

(*náaf bó* can only mean "What, of a cow's?")

bù-bò?

"what goat?"

dā-bó?

"what beer?"

The compound *bò-būudī* "what kind of?" can also be used as a dependent:

nā'-bó-būudì?

"what kind of cow?"

dā-bó-būudì?

"what kind of beer?"

Fò á nē bó-būudì=∅?

"What ethnic group do you belong to?"

2SG COP FOC what-sort=CQ?

Bò- can be used as a predependent, querying a description: "what sort of ...?"

Fò túm bó-tòvmà=∅?

"What kind of work do you do?"

2SG work:IPFV what-work=CQ?

Bo yir ka ya na me' n tis mane?

Bò-yír kà yà ná mē n tís mánè=∅?

What-house:SG and 2PL IRR build CAT give 1SG.CNTR=CQ?

"What kind of house will you build for me?" (Acts 7:49, 1996)

12.4.5 Reciprocal

Tāabā "one another" appears as *tāab* clause-medially for some speakers. It can be used after a cb, meaning "fellow-": *ò tò̄m-tò̄m-tāabā* "his fellow-workers."

Sò̄ḡimī=∅ tāabā. "Help one another."
Help:IMP=2PL.SUB each.other.

Tì yūug nē tāabā. "It's been a long time." KT
1PL delay with each.other.

Bà d̀̀l nē tāabā. "They went together." (*d̀̀l*^{la/} "accompany")
3PL follow with each.other.

12.4.6 Reflexive

Mē̄ḡ^{a/} "self" always has a predependent. It is used indifferently for sg/pl: *m̄ mē̄ḡ* "myself", *yà mē̄ḡ* "yourselves."

nà'ab lā mē̄ḡ "the chief himself"
chief:SG ART self

Bà ñýéὲ b̀̀ mē̄ḡ. "They've seen for themselves."
3PL see 3PL self.

"Self" forms must be used for complements referring to the clause subject:

M̄ ñwé'ὲ m̄ mē̄ḡ. "I hit myself."
1SG hit 1SG self. not **M̄ ñwé'ὲ m* or **M̄ ñwé'ὲ m̄n.*

Kusaal uses a pronoun possessor with body parts acted on by their owner, e.g.

Ba p̄v piesidi ba nu'us w̄v̄v̄ lín nar si'em la ka ditta.

Bà p̄v̄ p̄īəsídí̀ b̀̀ n̄u'us w̄v̄v̄ lín n̄ar s̄i'əm lá kà dítā=∅.

3PL NEG.IND clean:IPFV 3PL hand:PL like 3IN:NZ be.right INDEFADV ART and eat:IPFV=NEG.

"They don't wash their hands properly before they eat." (Mt 15:1)

Where ordinary pronouns would be permissible, using *mē̄ḡ* implies contrast:

M̄ p̄īə̀ m̄ mē̄ḡ n̄u'us. "I washed my own hands."
1SG wash 1SG self hand:PL.

F̀v̀ mēη k̄v̄v b̄j-l̀àa=ø? "Yourself or the baby?"
 2SG self or child-baby:SG=CQ? ("Which of you needs the doctor?")

See also [12.8.3](#) on *àmēηá* "really, truly" as a modifier "genuine, real"; cf the adjective *mēηír^ε* seen in *yēl-mēηír^ε* "truth" ("genuine matter.")

12.4.7 Dummy head

S̀v̀b^a is a dummy head for a preceding NP or AdvP dependent; it specifies number and gender but is otherwise semantically empty.

Animate sg *s̀v̀b^a* pl *d̀im^a*
 Inanimate sg/pl *d̀in^{nε}*

NP predependent constructions have their usual meanings [12.7.2](#):

mān d̀in^{nε} "my one, mine"
À-W̄in d̀im^a "Awini's family"

F̀v̄n p̄jāñ'ad nē t̄inám d̀in.

2SG.CNTR speak:IPFV FOC 1PL.CNTR NULL.IN.

("We can't speak your language but ...") "You're speaking ours."

p̀v̀-ṗ̀ə̀l̄im s̀v̀b^a
 pl *p̀v̀-ṗ̀ə̀l̄im d̀im^a* "holy person" (*p̀v̀-ṗ̀ə̀l̄im^m* "holiness")
d̀ūn̄yā ní d̀in^{nε} "earthly one" (1 Cor 15:44)
B̀òk d̀im^a "Bawku people"
ỳj̄igá s̀v̀b^a "first (person)" beside *ỳj̄ig-s̀v̀b^a* *id*

Cb predependents occur in set expressions:

ỳj̄-s̀v̀b^a pl *ỳj̄-s̀v̀b-nàm^a* "householder" (*ỳj̄^{ε/}* "house")
ỳj̄-d̀im^a "members of the household"
n̄j̄f-s̀v̀b^a "miser" (*n̄j̄f^{o/}* "eye")
t̄āñṗ-s̀v̀b^a "warrior" (*t̄āñṗ^o* "war")
z̀ūg-s̀v̀b^a pl *z̀ūg-s̀v̀b-nàm^a* "boss" NT "Lord" (*z̀ūg^{o/}* "head")

Ò s̀v̀b^a/v̄n s̀v̀b^a mean "the person we were just talking about."

12.5 Quantifiers

Formally, quantifiers resemble noun sg or pl forms, frequently with apocope-blocking 3.2; most number words are also preceded by number prefixes.

Quantifiers are **count** or **mass** 12.2, but the distinction is only of significance if the quantified noun is mass type, in which case a count quantifier is ungrammatical; with count nouns either type of quantifier is acceptable:

| | | |
|-----|-----------------------|-------------------|
| | <i>nīdīb bédvḡō</i> | "a lot of people" |
| | <i>nīdīb bábīgā</i> | "many people" |
| | <i>kù'əm bédvḡō</i> | "a lot of water" |
| not | * <i>kù'əm bábīgā</i> | *"many water" |

Mass quantifiers are

| | | | |
|----------------|---------------------|-----------------------------|------------|
| <i>bédvḡō'</i> | "a lot" | <i>pāmm</i> LF <i>pāmné</i> | "a lot" |
| <i>fīñ</i> | "a little (liquid)" | <i>bī'əlá</i> | "a little" |
| <i>wōv</i> | "all" | <i>wōsā</i> | "all" |

Beside number words, count quantifiers are

| | | | |
|----------------|---------|----------------|---------|
| <i>bábīgā'</i> | "many" | <i>kàlīgā'</i> | "few" |
| <i>fāñ</i> | "every" | <i>zāñ'a</i> | "every" |

Kàm^a "every" occurs by itself as a quantifier and also before others:

sāḡá kám = sāḡá kám zāñ'a "all the time"

Quantifiers appear typically as determiners in NPs 12.8.2, but like pronouns they may also be heads of NPs; they can pluralise with *nám*^a:

| | |
|---------------------------------|-------------------------------|
| <i>Pāmm ké nā.</i> | "Many came." |
| <i>Bédvḡō ké nā.</i> | "Many came." |
| <i>Bédvḡō lā ké nā.</i> | "The crowd came" |
| <i>Àyí' ké nā.</i> | "Two came." |
| <i>Àyí' lā ké nā.</i> | "The two came." |
| <i>màlīāk-nám túsà pīgā nám</i> | "tens of thousands of angels" |

A quantifier head after a dependent NP is a **partitive** construction 12.7.2.

Quantifier heads may be followed by dependent pronouns; as quantifiers have no combining forms, there is no compounding:

*Ka ti ye ti nye diib yaani moogin nwa diis nidib **bedego bama** nwa?*

Kà tì yé tì ñyē dīib yáa ní mōogō=n ñwá

And 1PL that 1PL find food where LOC grass:SG=LOC this

∅ dūs ñdīb bédugō bámmā ñwá=∅?

CAT feed person:PL many DEMST.PL this=CQ?

"Where are we going to find food in this wilderness to feed this crowd of people?" (Mt 15:33, 1996: KB *nimbama nwa wvsa* "all these people")

12.5.1 Numbers

The numbers in their core role as **quantifiers** take the forms

| | | | | | |
|---|---------------|----|--------------------|-----|------------------------|
| 1 | <i>yīnní</i> | 10 | <i>pīgā</i> | 100 | <i>kòbigā</i> |
| 2 | <i>àyí'</i> | 20 | <i>pīsí</i> [pisi] | 200 | <i>kòbisí</i> [kòbisi] |
| 3 | <i>àtáñ'</i> | 30 | <i>pīs táñ'</i> | 300 | <i>kòbìs táñ'</i> |
| 4 | <i>ànāasí</i> | 40 | <i>pīs nāasí</i> | 400 | <i>kòbìs nāasí</i> |
| 5 | <i>ànū</i> | 50 | <i>pīs nū</i> | 500 | <i>kòbìs nū</i> |
| 6 | <i>àyúèbò</i> | 60 | <i>pīs yúèbò</i> | 600 | <i>kòbìs yúèbò</i> |
| 7 | <i>àyópòè</i> | 70 | <i>pīs yópòè</i> | 700 | <i>kòbìs yópòè</i> |
| 8 | <i>ànjí</i> | 80 | <i>pīs ñí</i> | 800 | <i>kòbìs ñí</i> |
| 9 | <i>àwāè</i> | 90 | <i>pīs wāè</i> | 900 | <i>kòbìs wāè</i> |

The quantified noun is normally plural, except with *yīnní*, but may be singular with units of measure: *yōlvgá àtáñ'* "¢600 [cedis]."

The forms for 1, 4, 6, 8, 10, and 100 show apocope-blocking; the forms for 20 and 200 are not apocope-blocked but are combinations with the stem of *àyí'*.

Kòbigā irregularly has identical LF and SF.

"Thousand" is a regular *re|aa* class noun, *tūsīr^{ε/}*: *tūsá àtáñ'* "3000." "Half" is *pō-súk^a* pl *pō-súgòs^ε*. Other numbers are formed with *nē* "with, and":

kòbìs táñ' nē pīs yúèbò nē nū "three hundred and sixty-five"

11 to 19 have the special contracted forms *pīi nē yīnní*, *pīi nē yí'*, *pīi nē táñ'* ... *pīi nē wāè* (or *pīi nā yīnní*, *pīi nā yí'* ...)

The prefix *à-* is omitted after *nē* "with", and sometimes also after focus-*nē'*:

Lì à nē nāasí. / *Lì à né ànāasí.* "They're four."

The forms *àyíñā' àtáñā'* mean "two, three exactly." If I have four children

M̄ mór b̄īsá àtáñ' "I have three children."
 1SG have child:PL NUM:three. is true, though misleading

but *M̄ mór b̄īsá àtāḡā* "I have exactly three children." is false.

These forms can also be used after *nē* "and", as in *p̄ī nē ȳḡā* "twelve exactly."
 They are exceptional in not permitting focus with the particle *nē'* 24.1.2.

Ȳinní can also be construed with a preceding noun cb:

kūg-yínnì "one stone" (M dropping 4.5)
 cf *kūḡṛ ȳinní* "one stone" (no M dropping)

Dà-p̄īḡā is "ten days"; *p̄īḡā* is not otherwise used after cbs.

After personal pronouns the number prefix is *bà-* instead of *à-*: *tì bàtáñ'* "we three", *yà bàyópòḡ* "you seven", *bà bàyí'* "they two."

1 to 9 have different forms used in **counting**, lacking apocope-blocking and using the number prefix *ḡ-* instead of *à-*:

| | | | |
|---|------------------------------|---|---|
| 1 | <i>yéḡ</i> or <i>àràkóñ'</i> | 6 | <i>ḡyûḡb</i> |
| 2 | <i>ḡyí'</i> | 7 | <i>ḡpòḡ</i> [tone sic] |
| 3 | <i>ḡtáñ'</i> | 8 | <i>ḡñí</i> |
| 4 | <i>ḡnāas</i> | 9 | <i>ḡwāḡ</i> |
| 5 | <i>ḡnū</i> | | continuing <i>p̄īḡā</i> , <i>p̄ī nē yí'</i> as with quantifiers |

Àràkóñ' can also be used as a quantifier: *búḡ àràkóñ'* "one goat."

The form *kōñ'ḡkḡ* appears as a postposition: *m̄ kōñ'ḡkḡ* "by myself."

In performing arithmetic the quantifier forms are used:

Àyí' nāmá àyí' á nē nāasí.
 NUM:two PL NUM:two COP FOC four.
 "Two twos are four."

The only **ordinal** adjective, as in *sōb-dēḡ* "first census" (Lk 2:2, 1976) is

dēḡ^a *dēḡñs*^ε *dēḡ-* "first"
 or *dēḡmīs*^ε or *dēḡnā*

"First" can also be expressed by *ȳīḡá* "firstly" as a predependent:

line da an yiiga dabisir

līnī ∅ *dá àñ yīgá dábìsìr.*

3IN.CNTR CAT TNS COP firstly day:SG.

"That was the first day." (Genesis 1:5)

Other ordinal expressions can be created using *pàas*^ε or *pè'es*^ε "add up to":

dà̀y-kà̀nì pè'esà̀ àyí' lā

man-REL.SG add.up.to NUM:two ART

"the second man" ("man who has added up to two")

lìnì pàasà̀ àtáñ' lā "the third one"

REL.IN add.up.to NUM:three ART

Another construction uses numbers as predependents before *dāan*^a "owner of ..."; such phrases are then themselves used either as NP heads or as determiners:

àyí' dāan lā "the second one"

bōvǵá àtáñ' dāan lā "the third goat"

Yīgá dāan may be used for "first." In "*Kusaal Solima ne Siilima*" p35 ordinal forms used in counting "first, second, third ..." appear without apocope-blocking: *atan'-daan ... ka anaas-daan ... ka nu-daan ... ka yuob-daan ... ka poi-daan ... ka nii-daan ... ka wai-daan ... ka piig-daan*, but my informants use ordinary quantifier forms.

Note the adjective

yīmmír^ε *yīmmá* *yīm-* "single, alone"

as in *bì-yīmmír* "only child", *wāb-yīmmìr* "solitary elephant."

There are two words meaning "one of a pair": *ñyà̀yuk*^o pl *ñyà̀ad*^ε is only used for eyes, while *yī̀yη*^{o/} pl *yī̀ná* is used for other normally paired body parts: *nōb-yī̀yη* "one leg", *nū'-yī̀yη* "one hand", *nīf-ñyà̀yuk* "one eye", *tòb-yī̀yη* "one ear."

Multiplicatives (answering *àb̀l̀á?* "how many-fold?") are expressed

yīmmó "straight away, at once"

àb̀yí' "twice"

àb̀táñ' "three times"

àb̀nāasí "four times"

and so on, with apocope-blocking like quantifiers, up to *b̀p̀īgā* "ten times."

This *à-* is not the number prefix but the manner-adverb formant, and a LF-final vowel before it is *-ɪ*; the attachment to 2-9 only is presumably analogical.

Answers to *nɔ̄ɔrá àlá* "how many times?" have forms of the pattern

| | | |
|----|-----------------------|------------------|
| | <i>nɔ̄ɔr yīnní</i> | "once" |
| | <i>nɔ̄ɔrá àtáń'</i> | "three times" |
| or | <i>nɔ̄ɔríṃ b̀táń'</i> | "three times" NT |

This *nɔ̄ɔr* is not "mouth" (= Mooré *nóorè*) but corresponds to Mooré *náooré* "times", homophonous with Mooré *náooré* "leg"; cf Toende Kusaal *nɔ̄'ɔt* = Agolle *nóbir* "leg". Original *ɔɔ* and *oo* fell together when nasalised 2.2. For the semantics cf Hausa *sàu ukù* "three times" *sau* "foot(print)." Niggli's dictionary gives Toende *nó'ɔt* (tone *sic*) in the sense "*fois*" and even has *nɔba ayi* beside *nó'ɔt ayi* "*deux fois*."

Distributives ("two by two" etc) are reduplicated forms without apocope-blocking; there is no M dropping on the second part except with 10, 100, 1000:

| | | | | | |
|---|-----------------------|----|---------------------------|------|---|
| 1 | <i>yīn yīn</i> | 10 | <i>p̄ī p̄īg</i> | 100 | <i>k̀b̀ìg k̀b̀ìg</i> |
| 2 | <i>àyí' yí'</i> | 20 | <i>p̄īsí p̄īsí</i> | 200 | <i>k̀b̀ìsí k̀b̀ìsí</i> or <i>k̀b̀ìs yí' yí'</i> |
| 3 | <i>àtáń' táń'</i> | 30 | <i>p̄īs táń' táń'</i> | 300 | <i>k̀b̀ìs táń' táń'</i> |
| 4 | <i>ànāas nāas</i> | 40 | <i>p̄īs nāas nāas</i> | | <i>etc</i> |
| 5 | <i>ànū nū</i> | 50 | <i>p̄īs nū nū</i> | 1000 | <i>tūsīr tūsīr</i> |
| 6 | <i>àyúəb yúəb</i> | 60 | <i>p̄īs yúəb yúəb</i> | | |
| 7 | <i>àyóp̀d̀ə p̀ó̀ə</i> | 70 | <i>p̄īs yóp̀d̀ə p̀ó̀ə</i> | | |
| 8 | <i>àn̄í n̄í</i> | 80 | <i>p̄īs n̄í n̄í</i> | | |
| 9 | <i>àwāə wāə</i> | 90 | <i>p̄īs wāə wāə</i> | | |

Intermediate numbers are made by replacing the last part of the usual quantifier phrase with a distributive: *p̄īs nū n̄ē nāas nāas* "by fifty-fours."

The distributives can have a preceding NP as a dependent:

dābá àyóp̀d̀ə p̀ó̀ə "weekly" ("by sevens of days")

12.5.2 Proquantifiers

Quantifiers have corresponding proforms; the *à-* is the *number* prefix, and induces preceding LF-final *-a* not *-ɪ* 4.2.

| | | |
|----------------|---------------------------|------------------|
| Demonstrative | Indefinite | Interrogative |
| <i>àlá</i> | <i>s̄í'əṃ^m</i> | <i>àlá</i> |
| "so much/many" | "some amount" | "how much/many?" |

12.6 Personifier particle

Indigenous Kusaasi personal names 26.2 are always preceded by the personifier particle, which appears as *À-* by default, but *Ñ-* before adjective stems, where *Ñ-* is a syllabic nasal assimilated to the point of articulation of a following consonant. The particle is a liaison word; the *À-* allomorph, like the manner-adverb prefix *à-*, is preceded by word-final *-ɪ*, not *-a* as with the number prefix.

Personal names do not take adjectives or the article, but may occur with other determiners. *À-* is deleted after a predependent, but *Ñ-* remains.

Personal names can pluralise with *nàm*^a; such plurals can mean e.g. "more than one person called Awini"; Niggli's Toende Kusaal dictionary also gives the *cum suis* meaning: *Awɪnnam*: "Awin and his people. *Awinne et consort (les Awinne).*"

| | |
|-------------------|--------------|
| <i>À-Wɪn</i> | "Awini" |
| <i>tì Wɪn</i> | "our Awini" |
| <i>M̄ Wɪn</i> | "my Awini" |
| <i>À-Wɪn-káŋā</i> | "this Awini" |
| <i>À-Wɪn nám</i> | "Awinis" |
| <i>Ñ-Dāvɔg</i> | "Ndago" |
| <i>tì Ñ-Dāvɔg</i> | "our Ndago" |

Although the Kusaal Bible versions (unlike the Mooré Bible) use foreign names without the particle, *À-* normally appears before them in speech:

| | |
|----------------|---------|
| <i>À-Mūsā</i> | "Moses" |
| <i>À-Yīsā</i> | "Jesus" |
| <i>À-Sīmōn</i> | "Simon" |

NT has some personifications of abstractions: *À-Sàñ'vɔŋ* "Destruction."

In stories where animals are characters, animal names take *À-*:

| | |
|--------------|----------|
| <i>À-Bāa</i> | "Mr Dog" |
|--------------|----------|

Some animal and bird names incorporate the personifier particle as part of the common noun, with no implication of personification, e.g. *à-dàalóŋ*^o "stork", *à-gāvŋg*^o "pied crow", *à-kōrā-dīəm*^{ma} "praying mantis", *à-mús*^ε "cat." Thus

| | |
|-----------------------------|------------|
| <i>à-dàalóŋ</i> | "a stork" |
| <i>m̄/mān</i> <i>dáalóŋ</i> | "my stork" |
| 1SG/1SG.CNTR stork:SG | |

dāy lā dáalóŋ "the man's stork"
man:SG ART stork:SG

Lì à né à-dàalóŋ. "It's a stork"
3IN COP FOC PERS-stork:SG.

M ñyé à-dàalóŋ. "I've seen a stork."
1SG see PERS-stork:SG.

The *à-* allomorph is not elided after a predependent but is *replaced* by it, as shown by the M spreading affecting the stem. The fact that *à-* thus effectively fills a predependent slot may reflect a historical origin in an indefinite third-person pronoun "someone", perhaps related to the Mooré 3sg pronoun *yě~a*.

A further similarity with personal pronouns appears when *verb phrases* are nominalised by the personifier particle, which then takes the place of a subject pronoun in the sense "someone who ..." This is particularly common in proverbs.

Atvm sɔ' "Siloam" (Jn 9:7)
À-tòm sɔ' ("Someone sent someone")
PERS-send INDF.AN

Apu-kpen'-baŋv dim
À-pṵ kpéñ' bàṃṅò díṃ
PERS-NEG.IND enter circumcision NULL.PL
"the Uncircumcised" (Eph 2:11)

À-dāa yél kā' t̄imm=∅.
PERS-TNS say NEG.HAVE medicine=NEG.
"Did-say has no remedy." (No use crying over spilt milk.)

À-ñyē nē nīf sóñ'ɔ̄ À-wòm tòbà.
PERS-see with eye:SG be.better.than PERS-hear ear:PL
"Saw-with-eye beats Heard-with-Ears" (Seeing is believing.)

À-Kīdīgī̄ ∅ Bū'os "Crossed over and asked"
PERS-CROSS CAT ask (name of the constellation Orion.)

Apozotyel "Doesn't-fear-trouble", character in KSS p35.
À-Pṵ-zót-yēl
PERS-NEG.IND-run:IPFV-thing:SG

À- as predependent of a clause subject means "someone whose ...":

Bà kèn né À-nà kúv̀m̀ nūa yír, kà bà pō kén
 3PL go:IPFV FOC PERS-IRR kill 1SG chicken:SG house:SG and 3PL NEG.IND go:IPFV
À-nōs bé yírē=∅.
 PERS-chicken:PL EXIST house:SG=NEG.

"They go to Will-kill-my-chicken's house, but not to Got-chickens' house."
 ("The rich are not always hospitable.") [*Nōs bé.* "There are chickens."]

Nominalisations with *à-* can pluralise with *nàm*^a:

À-zī' ∅ kpí nàm kpîid né kà téñbìd.
 PERS-NEG.KNOW CAT die PL die:IPFV FOC and tremble:IPFV.

"Those who don't know death, are dying with a struggle." (Proverb)
 (i.e "It's a storm in a teacup.")

12.7 Dependents before the head

The head of a NP may be preceded by a dependent. Only one is permitted, but the resulting NP may itself recursively serve as the head of a NP with yet another predependent. Specific predependents precede generic, with cbs last:

Wínà'am [pú'vsùg [fûug dōog]]
 "tabernacle" (God's [worship [cloth hut]])

For the rules regarding M dropping after predependents see [4.5](#).

12.7.1 Combining forms

A combining form as a predependent is always generic and non-referential. Compounds with a predependent cb can be freely created, but resemble the compounds seen in other languages more closely than those with cb heads preceding adjectives and dependent pronouns. Specialised lexical meanings often occur with dependent cbs, rarely with head cbs before adjectives and never before pronouns.

If the head is a deverbal noun, it may be preceded by a combining form representing an **argument**, with count or mass meaning:

dā-nûur^ε "beer-drinking" *gēl-kûes*^a "egg-seller"

With **agent nouns** from transitive verbs the cb usually represents an object. Agent nouns from intransitives may have an AdvP or indirect object cb complement. These compounds can be freely coined, and their meanings are generally transparent, but there are many idiomatic set expressions. Examples:

| | | | |
|-------------------------------------|---|----------------------------------|----------------|
| <i>n̄n-k̄v̄d^a</i> | "murderer" | <i>b̄v̄-k̄v̄d^{a/}</i> | "goat-killer" |
| <i>n̄v̄-k̄v̄d^a</i> | "hen-killer" | <i>p̄v̄'à-k̄v̄d^{a/}</i> | "woman-killer" |
| <i>n̄v̄-zāñ^{lε}</i> | "holder of hens" | <i>w̄d-k̄v̄s^a</i> | "horse-seller" |
| <i>b̄v̄-k̄v̄s^a</i> | "goat-seller" | <i>s̄l̄m-k̄v̄s^a</i> | "gold-seller" |
| <i>d̄ā-n̄v̄d^a</i> | "beer-drinker" | <i>d̄ā-k̄j̄d^a</i> | "wood-cutter" |
| <i>z̄īm-gbāñ'ad^a</i> | "fisherman" ("fish-catcher") | | |
| <i>n̄v̄-d̄j̄'əs^a</i> | "chief's spokesman" ("command-receiver") | | |
| <i>t̄ān-m̄ēd^a</i> | "builder" (<i>t̄ān^{nε}</i> "earth") | | |
| <i>l̄āmp̄v̄-d̄j̄'əs^a</i> | "tax collector" (French <i>l'impôt</i>) | | |
| <i>gb̄ān-m̄j̄'id^{a/}</i> | "scribe" NT ("book-knower") | | |
| <i>p̄v̄'à-sāñ'am^{ma}</i> | "adulterer" ("woman-spoiler") | | |
| <i>z̄ā'-n̄v̄-ḡur^a</i> | "gate-keeper" (<i>z̄ā'-n̄v̄j̄r^{ε/}</i> "gate") | | |
| <i>k̄ñb-k̄īm^{na}</i> | "herdsman" (<i>k̄ñb-</i> cb of <i>b̄v̄n-k̄óñb̄v̄g^o</i> "animal") | | |
| <i>b̄v̄l-s̄j̄ḡid^{a/}</i> | "well-diver" (<i>b̄v̄l̄g^a</i> "well") | | |
| <i>t̄v̄v̄n-ḡāt^a</i> | "leader" (<i>Ò ḡād t̄v̄v̄n</i> "He's gone ahead") | | |
| <i>ñȳà'an-d̄v̄l^{la}</i> | "disciple" (<i>ñȳá'an^a</i> "behind", <i>d̄v̄l^{la/}</i> "accompany") | | |
| <i>p̄v̄'à-l̄ā'ad^a</i> | "laugher at women" WK (<i>Ò l̄ā'ad p̄v̄'ab</i> "He laughs at women") | | |

My informants freely create and cite agent nouns in isolation, but it is unusual in practice for agent nouns to appear "bare"; in my materials only *b̄āñj̄d^a* "wise man", *s̄j̄āk̄id^a* "believer", *s̄v̄ñj̄d^a* "helper", *f̄āāñd^{a/}* "robber", "Saviour" occur often. With monosyllabic agent nouns there is often a preceding cognate cb, sometimes an object, but often apparently just a reduplication of the agent noun stem:

| | | | |
|------------------------------------|------------------|---------------------------------|------------------------------|
| <i>m̄āal-m̄āan^{na}</i> | "sacrificer" | <i>z̄ī-z̄j̄id^a</i> | "carrier-on-head" |
| <i>t̄v̄'as-t̄v̄'as^a</i> | "talker" | <i>z̄āb-z̄āb^a</i> | "warrior" (tone <i>sic</i>) |
| <i>z̄v̄t-z̄v̄t^a</i> | "racer, athlete" | <i>t̄v̄m-t̄v̄m^{na}</i> | "worker" |

Cbs occur before deverbal **instrument nouns** in object or adverb senses:

| | |
|-----------------------------------|------------------------------|
| <i>s̄j̄à-l̄v̄d̄j̄^a</i> | "belt" (waist-tying thing) |
| <i>n̄n-ḡót̄j̄^a</i> | "mirror" (eye-looking thing) |
| <i>n̄n-ḡót̄is^ε</i> | "spectacles" |

If the head is a **gerund**, a predependent cb may represent a subject or complement. Gerunds in *-bo* here replace the suffix with *-re* 8.1.1.

If the underlying verb is transitive, a predependent cb cannot be a subject. It is most often an object:

| | |
|---------------------------------|---|
| <i>fū-yêr^ε</i> | "shirt-wearing" (nonce-form created by WK) |
| <i>pu'â-dîr^ε</i> | "marriage" (<i>Ô dî pu'â</i> "He's married a wife") |
| <i>nîñ-kôv^ε</i> | "murder" |
| <i>dā-nûr^ε</i> | "beer-drinking" |
| <i>Sāmán-pîr^ε</i> | traditional New Year ("Courtyard Cleaning") |
| <i>bùgúm-tôñr^ε</i> | Fire Festival ("Fire Throwing") |
| <i>nô-lôv^ε</i> | "fasting" ("mouth-tying") |
| <i>nô-pôv^ε</i> | "oath" (<i>pô</i> "swear") |
| <i>nô-nâar^ε</i> | "covenant" (<i>nâ</i> "join") |
| <i>nîñ-bâal-zôv^ε</i> | "pity" (<i>Ô zôtô nîñ-bâalîg</i> . "He has pity on him") |

It may represent an AdvP:

| | |
|-------------------------------|--|
| <i>mô-pîl^{lε}</i> | "grass roof" ("covering with grass") |
| <i>kùm-vô'vgr^ε</i> | "resurrection" (<i>Ô vô'vg kûmî=n</i> . "He revived from death.") |

Cbs as subjects are seen only with gerunds from intransitive or patientive ambitransitive verbs:

| | |
|--------------------------------|---|
| <i>nôb-kôv^ε</i> | "breaking a leg" (<i>kô</i> is intransitive) |
| <i>nû'-módîr^ε</i> | "swelling of the hand" |
| <i>wîñ-lîir^ε</i> | "sunset" (<i>Wîñnîg lî yâ</i> . "The sun has set/fallen.") |
| <i>sûñ-sân'vgr^o</i> | "sorrow" (<i>M sûñf sâñ'am nê</i> . "My heart is spoilt") |
| <i>sûñ-pêen^{nε}</i> | "anger" (<i>M sûñf pèlîg nê</i> . "My heart is white.") |

A dependent cb before a deadjectival abstract noun may have a sense much like an argument, corresponding to the subject of a related verb:

| | |
|--------------------------------|---|
| <i>pò-pîəlîm^m</i> | "holiness" ("inside-whiteness") |
| <i>sûñ-kpî'or^o</i> | "boldness" ("heart-strength") |
| <i>sûñ-má'asîm^m</i> | "joy" ("heart-coolness": <i>M sûñf má'e yâ</i> . "I'm joyful.") |
| <i>nîñ-tôllîm^m</i> | "fever" ("body-heat") |
| <i>wîñ-tôvgr^o</i> | "ill fortune" ("fate-bitterness") |

Before heads which are neither deverbal nor abstract nouns, a dependent cb has a very general quasi-adjectival sense. Such compounds are especially liable to develop specialised lexical meanings.

| | |
|---------------------------------|--|
| <i>bì-fūug^{ɔ/}</i> | "children's shirt" (i.e. suitable for children) |
| <i>wìd-zṽvr^ε</i> | "horsetail" |
| <i>wāb-mócgṽ=n^{ε/}</i> | "in elephant-bush, where there are elephants" WK |
| <i>zà'-nṽor^{ε/}</i> | "gate" ("compound-mouth") |
| <i>mà-bīg^a</i> | "sibling" ("child by [same] mother") |
| <i>bā'-bīg^a</i> | "half-sibling" ("child by [same] father") |
| <i>tèη-bīg^a</i> | "native" ("child of a country") |
| <i>nàsàa-sìlòg^ɔ</i> | "aeroplane" (European hawk) ILK |

WK has *náaf-bì'isím^m* "cow's milk", *bṽvg-bì'isím^m* "goat's milk", where the dependent has singular form and tone, but the tone sandhi is that of a compound.

12.7.2 Noun phrases

Complete NPs as predependents play a role analogous to English genitives and NP complements with "of" (CGEL pp467ff, 441.) The range of meanings is similarly very wide, and dependent on the semantics of both head and dependent. Indefinite non-count predependent NPs function as modifiers, and definite and/or count NPs as determiners. Personal pronouns never function as determiners themselves, but they often head predependent NPs which do 3.1.

Definite predependents do not automatically make a NP head definite 12.8.5.

For *mēη^{a/}* "self" and *sṽb^a* as heads after predependents see 12.4.6 12.4.7.

If the head is a demonstrative, indefinite or interrogative pronoun or a quantifier, the construction with a predependent is **partitive**:

| | | | |
|-----------------------|-----------------------------|--------------|-----------|
| <i>nīn-sīəbà</i> | "certain people" | <i>sīəbā</i> | dependent |
| <i>yà sṽ'</i> | "some one among you" | <i>sṽ'</i> | head |
| <i>nīdīb lā sīəbà</i> | "certain of the people" | <i>sīəbā</i> | head |
| <i>nīdīb sīəbà</i> | "certain ones among people" | <i>sīəbā</i> | head |
| <i>nīdībá àyí'</i> | "two people" | <i>àyí'</i> | dependent |
| <i>nīdībá àyí' lā</i> | "the two people" | <i>àyí'</i> | dependent |
| <i>nīdīb lā àyí'</i> | "two of the people" | <i>àyí'</i> | head |

The sense is also partitive if the head is a relative clause with an indefinite pronoun as relative:

Pa'alimi ti nidiba ayi' nwa fun gan so'

Pà'alīmī=tí nīdībá_ àyí' ñwá fún gāḡ sō'

Teach:IMP=1PL person:PL NUM:two this 2SG:NZ choose INDEFAN

"Tell us which of these two people you have chosen" (Acts 1:24)

A partitive sense is not possible with other head types: e.g. *nīdīb lā gígìs* must mean "the dumb ones *belonging* to the people", not "among the people" (WK.)

Abstract indefinite NPs as predependents ascribe a quality to the head:

| | |
|---------------------------|---|
| <i>nā'am kúk</i> | "throne" ("chieftaincy chair") |
| <i>nā'am sù'v̀l̀m</i> | "kingdom" ("chieftaincy possession") |
| <i>p̀v̀s̀v̀g d̀v̀v̀g</i> | "temple" ("worship house") |
| <i>t̀v̀l̀gír b̀v̀n</i> | "heater" ("heating thing" = <i>b̀v̀n-t̀v̀l̀gír</i> ^ε) |
| <i>d̀v̀g̀v̀b d̀v̀t</i> | "cooking pots" |
| <i>l̀g̀v̀d̀i t̀v̀v̀mà</i> | "expensive work" (<i>l̀g̀v̀d̀i</i> "money") |

There are sometimes alternate forms with cbs:

| | | | |
|-----|------------------------------|----------------|-------------------------------------|
| | <i>t̀v̀ñp-s̀v̀b</i> | "warrior" | (<i>t̀v̀ñp</i> ^o "war") |
| | <i>p̀v̀-ṛ̀v̀l̀- s̀v̀b</i> | "holy person" | (Rom 3:10, 1996) |
| but | <i>p̀v̀-ṛ̀v̀l̀m s̀v̀b</i> | "holy person" | (Mt 10:41, 1996) |
| | <i>p̀v̀-ṛ̀v̀l̀- t̀v̀v̀mā</i> | "holy actions" | (Rom 6:13, 1996) |
| but | <i>p̀v̀-ṛ̀v̀l̀m t̀v̀v̀mà</i> | "holy actions" | (Mt 5:10, 1996) |

Language names may appear as abstract nouns describing an ethnic group:

| | |
|---------------------------------|----------------------------------|
| <i>K̀v̀s̀aal ỳr nē k̀v̀v̀b</i> | "Kusaasi houses and agriculture" |
| <i>Ǹv̀s̀aal b̀v̀g̀v̀m</i> | "electricity" ("European fire") |

Concrete indefinite mass NPs as predependents express the material of which the head consists.

| | |
|------------------------------------|-------------------------|
| <i>s̀al̀mā b̀v̀t̀v̀ḡ</i> | "golden cup" |
| <i>s̀al̀mā nē ānz̀v̀r̀fà lâ'ad</i> | "gold and silver goods" |

Count nouns may appear here in mass senses 12.2:

| | |
|-------------------------|--|
| <i>f̀v̀v̀g d̀v̀v̀g</i> | "tent" (cloth hut) |
| <i>d̀v̀ad b̀v̀n-nám</i> | "wooden things" (<i>d̀v̀v̀g</i> ^o "piece of wood") |

NP predependents of this type can be antecedents of anaphoric pronouns:

sālīmā lâ'ad né ò bōtīs "gold goods and [gold] cups" WK 12.1

This is never the case with dependent cbs, as in *sālīm-kùès* "gold-seller", *dā-nūud* "beer-drinker"; on non-referential NPs as antecedents in English see e.g. CGEL pp400ff, and p1458; the restriction of anaphora to the same clause implied on p400 is not valid in English in the case of *generic* non-referential NPs.

The cb first element of *kù'à-ñwīg* "current" ("aquatic rope") suggests that the construction with unbound concrete mass predependents is limited to the specific sense "made of ...", so that **kù'əm ñwīg* would be "rope made of water."

With count and/or definite heads, meanings include kin relations, body parts, and ownership:

| | |
|---------------------------------|--|
| <i>m̄ bīg</i> | "my child" |
| <i>dāy lā bīg</i> | "the man's child" |
| <i>dāy lā bīər bīg nāaf zūr</i> | "the man's elder brother's child's cow's tail" |
| <i>Kōsāas wádà</i> | "customs of the Kusaasi" |

Nimbe'og yir na san'am.

Nīn-bē'og yīr nà sāñ'am.

Person-bad:SG house:SG IRR spoil.

"The house of a wicked person will be destroyed." (Proverbs 14:11)

A contrast with a non-referential predependent cb:

| | |
|--------------------------|--|
| <i>nà'ab lā wīəf zūr</i> | "the chief's horse's tail" (the chief has a horse) |
| <i>nà'ab lā wíd-zūr</i> | "the chief's horse-tail" (the chief may not own a complete horse at all) |

Dāan^a "owner of ..." (*nām*^a pl) always has a predependent NP; this may represent a concrete possession, or if it is adverbial or has an abstract sense, it may ascribe a quality (as with Hausa *mài*, or Arabic *đu*):

| | |
|---------------------|---------------------------------------|
| <i>lór dāan</i> | "car owner" |
| <i>bōvg dāan</i> | "goat owner" |
| <i>kù'əm dāan</i> | "water owner" |
| <i>tīəg dāan</i> | "bearded man" Hausa <i>mài geemùu</i> |
| <i>dāam dāan</i> | "beer owner" |
| <i>pōcg lā dāan</i> | "the owner of the field" (Mt 21:40) |

Zu-wok daan po gangid bugum.

Zhè-wōk dāan pō gāṅìd búgóm̄m=∅.

Tail-long:SG owner:SG NEG.IND step.over:IPFV fire=NEG.

Proverb: "One with a long tail doesn't step over a fire."

(If you have family commitments you shouldn't take risks.) KSS p38

pò-pìèlìm dāan

"holy person"

bōv̄sígā dāan

"softly-softly sort of person" WK

See [12.5.1](#) on the use of *dāan*^a with numbers to make ordinal expressions.

A cb predependent appears before *dāan*^a in a few set expressions:

yī-dāan

"householder" = *yī-sób* (Hausa *mài gidaa*)

tèṅ-dāan

(literally "land-owner"): traditional earth-priest

Before gerunds and other abstract nouns describing events or processes, NP predependents refer to *subjects*. Such constructions are themselves most often used as subjects or with postpositions.

Dāu lā kúlòg dāa mā̀l̄sì=m.

Man:SG ART go.home:GER TNS be.sweet=1SG.

"The man's return home pleased me."

Generic-object cbs, adjunct AdvPs and VP-final particles may appear:

ya antu'a morim koto ni ne taaba la

yà àntu'á-mōrím kótò ní nē tāabā lā

2PL case-have:GER court:SG LOC with each.other ART

"your going to law with each other in court" (1 Cor 6:7, 1976)

Ninsaal Biig la lēbv̄g la na

Nīn-sāal Bīig lā lēb̀v̄g lā nā

Human:SG child:SG ART return:GER ART hither

"the return of the Son of Man" (Mt 24:27)

12.7.3 Adverbial phrases

Predependent AdvPs may not be proadverbs. Most are locative, or phrases with the postposition *yēlá* "about", or depend on the specialised head *dāan*^a 12.7.2.

| | |
|-----------------------------|----------------------------------|
| <i>dūnyā ní n̄n-gb̄iη</i> | "earthly body" |
| <i>kōlv̄ḡ=n n̄ó-dāv̄g</i> | "crayfish" ("in-the-river cock") |
| <i>Bòk dí̄m</i> | "Bawku people" |
| <i>dàgòb̄ìg ní̄f</i> | "left eye" |
| <i>zūḡú=n ní̄f-gb̄á̄uη</i> | "upper eyelid" |
| <i>tē̄ηī=n ní̄f-gb̄á̄uη</i> | "lower eyelid" |

Ba da m̄ɔr m̄ɔɔgin b̄v̄nk̄ɔnb̄id n̄ɛ ba buudi, ȳin b̄v̄nk̄ɔnb̄id n̄ɛ ba buudi ...

Bà dà m̄ɔr m̄ɔɔḡū=n b̄ún-k̄óñb̄ìd n̄é bà b̄ūud̄ī, ȳin b̄ún-k̄óñb̄ìd

3PL TNS have bush:SG=LOC thing-hair:PL and 3PL kind, house:SG:LOC thing-hair:PL
n̄é bà b̄ūud̄ī ...

and 3PL kind ...

"They took wild animals with their kind, tame animals with their kind ..."

(Gen 7:14)

Kūs̄âas k̄ûòb n̄ē ȳīr ȳélà gb̄à̄uη "A book about Kusaasi houses and agriculture"

dà̄u-k̄à̄ñā lā ȳélà gb̄à̄uη "a book about that man" WK

Ȳīgá "firstly" appears as a predependent meaning "first" 12.5.1.

12.8 Dependents after the head

Dependents follow a head noun in the order adjective(s), quantifier, dependent pronoun or AdvP, article or *n̄wà* "this." All except adjectives are determiners.

Adjectives and dependent pronouns follow a head noun which is itself reduced to a combining form, while the dependent inflects to show the number of the head. Compounds with cb heads are formed absolutely freely with completely transparent meanings, making the cb a standard part of noun and adjective paradigms. Cbs as heads are the most liable to segmental remodelling 5.2.

Compounds with dependent pronouns naturally cannot be lexicalised, but compounds with adjectives can develop specialised lexical meanings.

Quantifiers do not have combining forms and cannot be followed by the dependent-only demonstrative forms *kàn^ε k̄à̄ñā'*.

For WK and DK, a noun before a dependent pronoun must appear as a cb, but SB often produced forms with cbs segmentally remodelled after sg or even pl forms.

12.8.1 Adjectives

Adjectives follow a head cb. They do not themselves normally appear as heads, but a subset of adjectives lacking corresponding stative verbs may be used as heads of predicative complements 16.9.2. Generally, compounds with *n̄n-* "person" or *b̄n-* "thing" are used instead: *n̄n-súŋ*^ɔ "good person", *b̄n-vúr*^ɛ "living thing" etc. *B̄n*^{nɛ/} can make a regular *rɛ|aa* class plural *b̄ná* or pluralise with *nám*^a:

B̄n-námá *àlá* *kà f̄v̄ ñyētá=ø?*
 Thing-PL NUM:how.many and 2SG see:IPFV=CQ?
 "How many things do you see?" SB

B̄n also occurs with abstract and AdvP predependents:

t̄v̄lígír b̄n^{nɛ} "heating thing, heater" = *b̄n-t̄v̄lígír*^ɛ
kù'əmī=n b̄n^{nɛ} "water creature"

Deverbal adjective forms with no preceding cb are synonymous with agent nouns, so the presence of *b̄n-* distinguishes different meanings in e.g. *b̄n-kúvdír*^ɛ "thing to do with killing" versus *k̄v̄dír*^ɛ "killer."

Note the idioms

b̄n-gíŋ^a "short chap" (informal, humorous)
b̄n-kúvd̄g^ɔ "old man" (the normal expression)

The combination noun + adjective is rendered with noun cb before the adjective, which inflects as sg/pl or cb on behalf of the head noun:

| | | | |
|--------------------------------|-------------|--------------------------------|--------------|
| <i>n̄a</i> ^l | "hen" | <i>n̄ɔs</i> ^{ɛ/} | "hens" |
| <i>n̄-p̄l̄l̄g</i> ^a | "white hen" | <i>n̄-p̄l̄l̄s</i> ^ɛ | "white hens" |
| <i>n̄-súŋ</i> ^ɔ | "good hen" | <i>n̄-súmà</i> | "good hens" |

Another adjective or a dependent pronoun can follow a first adjective cb:

n̄n-wók-p̄l̄l̄g^a "white tall person"
n̄-p̄l̄l̄-kàŋā^l "this white hen"

However, noun-adjective compounds cannot form cbs for deverbal noun generic complements; sg/pl forms appear instead:

fū-zéñdà kùes^a "seller of red (i.e. dyed) cloth" (not **fū-zéñ'-kùes*^a)

Compounds with adjectives may develop specialised lexical meanings:

| | |
|---------------------------------|---|
| <i>nū'-bīl^a</i> | "finger" ("small hand") |
| <i>tì-sābilím^m</i> | a traditional remedy ("black medicine") |
| <i>gòñ'-sābilíg^a</i> | Haaf <i>gosabliga</i> "Acacia hockii" ("black thorn") |

There are isolated set forms showing traces of the old agreement system; the dependents do not regularly appear with the class suffixes seen in

| | |
|--------------------------------|--|
| <i>là'-bīəlí^o</i> | "small coin" NT (<i>lā'af^o</i> "cowrie", <i>bī'əlá</i> "a little") |
| <i>dà-sī'ər^ε</i> | "some day, perhaps" (<i>dāar^ε</i> "day", <i>sī'a</i> "some") |
| <i>dàbìs-sī'ər^ε</i> | "some day" (<i>dàbìsìr^ε</i> "day") |
| <i>yēl-súm^{mε}</i> | "blessing" (<i>yēl^{lε/}</i> "matter", <i>sùŋ^o</i> "good") |
| <i>pɔ'á-pāal^{a/}</i> | "bride" (<i>pɔ'ā^a</i> "wife", <i>pāalíg^a</i> "new") |
| <i>dà-pāal^{a/}</i> | "young man, son" (<i>dāu</i> "man") |

In WK's speech (not DK's) and many written sources, *mm*-class nouns require adjectives in *-mm*, as does *bōn* "thing" in abstract but not concrete senses:

| | |
|-----------------------------------|---|
| <i>dā-pāalím^m</i> | "new millet beer"; WK does not accept <i>*dā-pāal</i> , <i>*dā-pāalìg</i> . |
| <i>tì-sābilím^m</i> | "black medicine", a specific traditional remedy |
| <i>tì-vōnním^m</i> | "oral medication" ("swallowing medicine") |
| <i>tì-kōvdím^m</i> | "poison" ("killing medicine") |
| <i>kpāñ-sóoñdím^m</i> | "anointing oil" (<i>kpāañ^{m/}</i> "oil, grease") |
| <i>bōn-bóodím^m</i> | "desirable thing" (1 Cor 14:1: <i>nòŋìlím^m</i> "love") |
| but <i>bōn-bóodìr^ε</i> | "desirable thing" (BNY p17: a sheep) |
| <i>bōn-ñyétím^m</i> | "the visible world" |
| but <i>bōn-ñyétìr^ε</i> | "a visible object" |

Adjectives may show apocope-blocking [3.2](#) as a downtoner. Only singular forms seem to be possible. (All examples KT):

| | |
|--------------------------------|---------------------------|
| <i>Lì à nē fū-píə̀lìgā.</i> | "It's a whitish shirt." |
| <i>Lì à nē fū-píə̀lìgā lā.</i> | "It's the whitish shirt." |
| <i>Lì à nē wíug.</i> | "It's red." |
| <i>Lì à nē wíugō.</i> | "It's reddish." |
| <i>fū-wíugō lā</i> | "the reddish shirt" |
| <i>Lì à nē tītā'arī.</i> | "It's biggish." |

12.8.1.1 Bahuvrihis

The combination noun + adjective may be used as a bahuvrihi adjective itself:

| | |
|---|--|
| <i>Lì à nē nū'-kpìlúŋ.</i> | "It's a dead hand." |
| <i>Bīg lā á nē nū'-kpìlúŋ.</i> | "The child is dead-handed." |
| <i>Ò à nē bí-[nū'-kpìlúŋ].</i> | "He's a dead-handed child." |
| <i>kòg-nōb-wók^o</i> | "long-legged stool" |
| <i>kòg-nōb-wâ'ad^ε</i> | "long-legged stools" |
| <i>Kòg-kàŋā á nē nōb-wók.</i> | "This stool is long-legged." WK |
| <i>zūg-máuk^o pl zūg-mâ'ad^ε</i> | "crushed-headed" |
| <i>zò-wōk^{o/}</i> | "long-tailed" |
| <i>nōb-gíŋ^a</i> | "short-legged" |
| <i>zū-péélòg^o pl zū-péélà</i> | "bald"; cf <i>Dau sò' zug ya'a pie</i> "If a man has gone bald" (Leviticus 13:40) |
| <i>lām-fōcòg^o pl lām-fōcòd^ε</i> | "toothless" (<i>lām^{mε/}</i> "gum", <i>fùe</i> "draw out") |

The two adjectives "one of a pair" [12.5.1](#) are often used in bahuvrihis: *nīf-ñyáuk^o* "one eye", *bà-nīf-ñyáuk^o* "one-eyed dog"; *tòb-yīuŋ^{o/}* "one ear" *bì-tòb-yīná* "one-eared children."

The construction is not modification of an adjective by a cb. In cases like *bì-nū'-kpìlúŋ^o* "child with a withered hand" the adjective is modifying the cb immediately preceding it, not *vice versa*: it is not possible to say **bì-nū'-kpìim^m*. The adjective may even be plural despite singular reference of the whole compound:

| | |
|---|--|
| <i>bì-tòb-kpīdā</i> | "deaf child" (<i>tòbòr^ε</i> "ear", <i>kpì</i> "die") |
| pl <i>bì-tòb-kpīdā nám^a, bì-tòb-kpīdīs^ε</i> | |
| <i>bì-tòb-līd^ε</i> | "child/children with blocked ears" (<i>lī</i> "block") |

12.8.1.2 Nouns as adjectives

Human-reference nouns may be used as adjectives modifying other human-reference nouns; the construction is effectively appositional:

| | |
|---|------------------|
| <i>bì-sāan^{a/} or bì-sáaŋ^a</i> | "stranger-child" |
| [only <i>bò-sáaŋ^a</i> | "stranger goat"] |
| <i>bì-kpī'im^{m/} or bì-kpìilúŋ^o</i> | "dead child" |
| [only <i>bò-kpìilúŋ^o</i> | "dead goat"] |
| <i>bì-dāu or bì-dāvog^o</i> | "male child" |
| [only <i>bò-dāvog^o</i> | "male goat"] |
| <i>bì-pu'ā^a or bì-puāk^a</i> | "female child" |

| | |
|--|--|
| <i>bì-zū'əm^{m/}</i> or <i>bì-zùnzòŋ^a</i> | "blind child" |
| <i>bì-zùnzòŋ^a</i> | "blind child" |
| <i>bì-gìk^a</i> | "dumb child" |
| <i>bì-wàbìr^ε</i> | "lame child" |
| <i>bì-bālērōg^o</i> | "ugly child" |
| <i>bì-pòñ'or^ε</i> | "crippled child" |
| <i>nà'-bīig^a</i> or <i>bì-nà'ab^a</i> | "prince" |
| <i>dàṃ-bīig^a</i> or <i>bì-dāṃ</i> | "male child" |
| <i>nàsàa-bīig^a</i> | "European child" |
| <i>yàmmùg-bī-púŋ^a</i> | "girl slave" (<i>yamug bipuŋ</i> Acts 16:16, 1976 5.2) |
| <i>yàm-bī-púŋ^a</i> | "girl slave" WK (<i>yàmmùg bī-púŋ^a</i> "slave's girl") |
| <i>bī-púŋ-yàmmùg^a</i> | "slave girl" |

Even agent nouns can appear as modifiers, but only of human-reference cbs which cannot be interpreted as complements:

| | | |
|-----|--|---------------------------------|
| | <i>pṣ'à-zàańs^a</i> | "dreamy woman" KT |
| | <i>bì-sīŋ^{na/}</i> or <i>bì-sīnníg^a</i> | "silent child" |
| but | <i>bò-sīnníg^a</i> or <i>bò-sīnnúg^o</i> | "silent goat" |
| | <i>pṣ'à-kōvdíg^a</i> | "murderous woman, murderess" WK |
| | <i>pṣ'à-lā'adīg^a</i> | "woman given to laughing" WK |
| cf | <i>pṣ'à-kōvd^{a/}</i> | only "killer of women" WK |
| | <i>pṣ'à-lā'ad^a</i> | only "laugher at women" WK |

12.8.2 Quantifiers

Quantifiers as determiners follow the head, except for *yīigá* "firstly." A head can appear as a cb only with *yīnní* "one" and in a few fixed expressions like *dà-pīigā* "ten days"; elsewhere, quantifiers are not subject to M dropping: *kūg-yīnní* "one stone" but *kūgōr yīnní* "one stone."

Quantifiers precede dependent pronouns and *lā'* "the, that", *ńwà* "this":

| | |
|--------------------------------|------------------------------------|
| <i>bvnama atan' nwa</i> | "these three things" (1 Cor 13:13) |
| <i>bōn-námá_àtáń' ńwá</i> | |
| thing-PL NUM:three this | |

Quantifiers as determiners can be coordinated:

| | |
|--------------------------------------|-----------------------------------|
| <i>o nya'andolib pii ne yi</i> | "his twelve disciples" (Mt 26:20) |
| <i>ò ńyà'an-dòllìb pīi nē yí'</i> | |
| 3AN disciple:PL ten with two | |

12.8.3 Adverbial phrases

When an abstract noun with a verbal sense has a preceding NP dependent as subject, complement or adjunct AdvPs may follow the head, including prepositional phrases, which are not found elsewhere as NP dependents, and also VP-final particles. This is therefore best regarded as a clause nominalisation process. Other uses of AdvPs as NP dependents after the head are marginal. *Àmēḡá* "really, truly" occurs in the meaning "genuine, real":

Ōn sōb á nē d'atà àmēḡá lā.
 3AN.CNTR NULL.AN COP FOC doctor:SG ADV:real:ADV ART
 "That one's the real doctor."

With *ñwādīs yōvm lā p'vḡō=n* "months in the year" (SB) and *wābōḡ mōḡōḡ=n lā* "the elephant in the bush" (WK), I have not recorded the full contexts, possibly e.g. *M dāa ñyē wābōḡ mōḡōḡ=n lā* "I saw an elephant in the bush." The 1976 NT has

Lina ane labasuḡ Jesus Christ Wina'am Biig la yela.
Lìnā á nē lábà-sòḡ Jesus Christ Wínà'am bìḡ lā yélà.
 DEMST.IN COP FOC news-good:SG Jesus Christ God child:SG ART about.
 "This is the good news about Jesus Christ, God's Son." (Mk 1:1)

but the 1996 revision recasts this as

Lina ane Yesu Kiristo one a Wina'am Biig la labasuḡ.
Lìnā á nē Yesu Kiristo ónì à Wínà'am bìḡ lā lábà-sòḡ.
 DEMST.IN COP FOC Yesu Kiristo REL.AN COP God child:SG ART news-good:SG.

12.8.4 Pronouns

Demonstrative, indefinite and interrogative pronouns may be used as determiners following a noun cb as NP head, or a noun cb as NP head followed by an adjective cb; they follow quantifiers without compounding:

| | | | |
|------------------------|-------------------|---------------------|-------------------|
| <i>bīḡ^a</i> | "child" | <i>bì-kàḡā'</i> | "this child" |
| <i>bì-sō'</i> | "a certain child" | <i>bì-sòḡ-kàḡā'</i> | "this good child" |
| <i>bì-kàḡè?</i> | "which child?" | <i>bì-bó?</i> | "what child?" |

yeltōd ayōpōi bane ka maliaknama ayōpōi mōr la
yēl-tōd àyōpōḡ bání kà mālīāk-námá àyōpōḡ mōr lā
 matter-bitter:PL NUM:seven REL.PL and angel-PL NUM:seven have ART
 "the seven plagues which the seven angels have" (Rev 15:8)

12.8.5 *Lā* and *ñwà*

Lā' and *ñwà* are corresponding deictic particles "that" and "this." Although *ñwà* always retains this sense, *lā'* in the great majority of its occurrences is weakened to a **definite article**. It retains its deictic sense in opposition to *ñwà* in identificational clauses [18.4](#) and after demonstratives [12.4.2](#).

Unlike *lā'*, *ñwà* can stand alone as a NP:

Ñwà á nē bīg. "This is a child." WK; tones *sic*.
This COP FOC child:SG.

Lā' and *ñwà* stand finally in the NP (which may itself be a dependent before another NP) except for the marginal case where a VP-final particle occurs in a *ñ*-clause, when it may follow the article attached to the clause [16.11](#).

As article, *lā'* corresponds in many cases to English "the", marking referents as specific and already established. However, unlike "the", *lā'* is not typically used for "familiar background" references:

Wīnnìg lí yā. "The sun has set."
Sun:SG fall PFV.

It is not used with pronouns, or with proper names of people or places: *mān* "me", *À-Wīn* "Awini", *Bòk* "Bawku." Nor is it used with abstract mass nouns:

Nɔ̀ɲilim pɔ̀ naada. "Love does not come to an end." (1 Cor 13:8)
Nɔ̀ɲìlím pɔ̀ nāadá=∅.
Love NEG.IND finish:IPFV=NEG.

Lā' is not used in vocatives, contrasting with *ñwà*, which often is:

Bīgā=∅! "Child!"
Child:SG=VOC!

Bīs ñwá! "Children!" [bi:sa]

There is no indefinite article: a NP with no *lā'* is indefinite if it could have taken *lā'* in the sense of the article. When a NP of a type which can take the article appears without it, the sense may be non-referential. This is the case, for example, with negative-bound nouns, and with the complement of *àḡñ^{ya}* "be something" when used ascriptively:

M̄ b̄iḡ k̄ā'e=∅. "I've no child" WK
 1SG child:SG NEG.BE=NEG.

Ò à nē b̄iḡ. "She is a child."
 3AN COP FOC child:SG.

An indefinite NP is only likely to have a *specific* sense in the context of an explicit introductory presentational statement 24.5:

Dau da be mori o biribing
Dāu dá bē_∅ m̄rī_ò b̄i-díbiḡ
 Man:SG TNS EXIST CAT have 3AN child-boy:SG
 "Once there was a man who had a son ..." KSS p35

Outside such contexts, an indefinite NP is usually *generic*; unlike English "the", *lā'* is not used with a generic sense:

Tvmtvm pv gat o zugdaana.
Tòm-tōm p̄v gát ò zūg-dáanā=∅.
 Worker:SG NEG.IND pass:IPFV 3AN head-owner:SG=NEG.
 "The servant does not surpass his master." (Jn 15:20)

Tiig walaa bigisid lin an tisi'a.
Tiig wélàa_∅ biḡisid lín àñ tí-sī'a.
 Tree:SG fruit:PL CAT show:IPFV 3IN:NZ COP tree-INDEF.IN.
 "It's the fruit of the tree that shows what tree it is." (Mt 12:33)

Kusaas ye ... "The Kusaasi say ..." KSS p16
 drawing the moral of a story.

A predependent NP ending in *lā'* makes the following head definite, and the head does not itself take the article:

nà'ab lā biḡ "the chief's child"
 not **nà'ab lā biḡ lā*

Only predependents *with the article* and demonstrative pronouns automatically make their heads definite; predependent personal pronouns or proper names do not:

Wínà'am málīāk "an angel of God"
Wínà'am málīāk lā "the angel of God"

m̀ bīg

"my child" (at first mention)

m̀ bīg lā

"my child" (previously mentioned)

Contrast the common idiom at first introduction of a possessed referent, where *lā'* is absent, with cases where the referent has already been introduced:

*Dau da be mori o biribing**Dāu dá bẹ̀̄ ø mōrị́̄ ò bī-díbìŋ*

Man:SG TNS EXIST CAT have 3AN child-boy:SG

"Once there was a man who had a son ..." KSS p35

*On daa an pu'asadir la ka o kul sidi paae yvma ayopoi ka o sid la kpi.**Ón dāa áñ pū'á-sādīr lá kà ò kúl sīdị̄̄ ø pāe*

3AN:NZ TNS COP woman-nulliparous:SG ART and 3AN marry husband:SG CAT reach

yúmà àyópòẹ̀̄ kà ò sīd lā kpi.

year:PL NUM:SEVEN and 3AN husband:SG ART die.

"She had married a husband when she was a girl, and after seven years her husband died." (Lk 2:36)

Note also the contrast of meaning produced by the article in

M̀ bīg kā'e=ø.

"I've no child" WK

1SG child:SG NEG.BE=NEG.

M̀ bīg lā kā'e=ø.

"My child's not there" WK

1SG child:SG ART NEG.BE=NEG.

Certain words consistently lack the article after a pronoun possessor even if they are specific old information. This may be a question of uniqueness within a particular context; examples are *bā'* and *sàam*^{ma} "father."

For an unambiguously indefinite specific meaning like "some, another", indefinite pronouns are used:

Nā'-síəbà óñbìd nē mōɔd. "Some cows are eating grass."

Cow INDF.PL chew:IPFV FOC grass:PL.

An indefinite pronoun is necessary to make the head indefinite after a predependent with the article:

nà'ab lā bī-sō'

"a child of the chief's"

chief:SG ART child INDF.AN

13 Adverbial phrases

13.1 Forms and functions

Many AdvPs represent adverbial *uses* of NPs. Other kinds of AdvP have fewer structural possibilities than NPs; for example, only specialised *postpositions* have NP predependents, and many adverbs do not conform to the structure of ordinary nouns.

Absolute clauses are AdvPs 21.1, as are several relative clause types.

As with NPs, coordination of AdvPs uses the particle *nē*:

Bēogō=n nē zāam kà fò ná nīḡ tí-kàḡā.

Morning=LOC with evening and 2SG IRR do medicine-DEMST.SG.

"You'll use this medicine morning and evening." [Time]

Nyalima na be winnigin ne nwadigin ne nwadbibisin.

Ñyālmá nà bē wīnnìḡī=n nē ñwādìḡí=n nē ñwād-bíḡīsī=n.

Wonder:PL IRR EXIST sun:SG=LOC with moon:SG=LOC with moon-small:PL=LOC.

"There will be wonders in the sun, moon and stars." (Lk 21:25) [Place]

For manner-AdvP coordination see on *sī'əm*-clauses 21.2.1.

The prototypical use of AdvPs is as VP adjuncts. For AdvPs as dependents in NPs see 12.7.3; time/circumstance AdvPs may appear as postlinker adjuncts 17.2.1.

AdvPs also occur as verb arguments. AdvP subjects are most often seen with *àḡñ^{ya}* "be something/somehow," but occur with other verbs too, especially statives.

Yīḡ venl, ka poogin ka'a su'um.

Yīḡ véñl kà pōvgō=n kā' sūmm=∅.

Outside be.beautiful and inside:SG=LOC NEG.BE good:ABSTR=NEG.

"Outside is beautiful but inside is not good." (Acts 23:3, 1996)

Kristo da kpīi ti yēla la ke ka ti baḡ nōḡilim an si'em.

Kristo=∅ dà kpīi tì yēlá lā ké kà tì báḡ nòḡìlīm=∅ àñ sī'əm.

Christ=NZ TNS die 1PL about ART cause and 1PL realise love=NZ COP INDF.ADV

"Christ dying for us makes us understand what love is like." (1 Jn 3:16)

(absolute clause AdvP as subject)

In *Sòḡā bé* "OK it is" (WK), *sòḡā* used metalinguistically: "the word *sòḡā*."

Verbs with appropriate meanings frequently take locative AdvPs as complements, rather than as adjuncts 16.9.3.

The verb *àḡñ^{ya}* "be something/somehow" 16.12 typically has a derived manner-adverb or abstract noun as complement rather than an adjective as NP head:

| | |
|--------------------------|---------------|
| <i>Lì à nē zāalím.</i> | "It's empty." |
| <i>Lì à nē bōgvsígā.</i> | "It's soft." |
| <i>Lì à súnā.</i> | "It's good." |

Kusaal characteristically uses manner proadverbs as predicative complements in place of pronouns with abstract reference. i.e. the language says "be/do *how*" rather than "be/do *what*."

| | |
|--------------------------|---------------------------|
| <i>Dā nìḡ òlāa=ø!</i> | "Don't do that!" ("thus") |
| NEG.IMP do ADV:thus=NEG. | |

| | |
|---|--|
| <i>Fv wvm ban yet si'em laa?</i> | |
| <i>Fò wóm bán yèt sī'əm láa=ø?</i> | |
| 2SG hear:IPFV 3PL:NZ say:IPFV INDEF.ADV ART=PQ? | |
| "Do you hear what they are saying?" (Mt 21:16) | |

Relative clauses with the proform *sī'əm*^m "somehow" as head are accordingly used after verbs of cognition, reporting and perception, to express the subordinate interrogative sense "say [etc] what ..." 21.2.1.

For the idiom "X *nìḡ wēlá ...?*" "how can X ...?" see 19.1.

13.2 Time/circumstance

AdvPs expressing **time** 26.7 may be instantiated by proadverbs 13.6 or by structurally distinctive time adverbs such as *zīnā* "today", *sù'əs*^a "yesterday", *dūnnā* "this year." *Bēog*^o "tomorrow" has the form of a noun but cannot inflect or take dependents; *dāar*^ε "day after tomorrow/day before yesterday" is in the same category but happens to be homophonous with the noun *dāar*^ε "day."

Other time AdvPs are simply NPs with temporal meanings, and no special marking. They may consist of single nouns, such as *yú'vḡ*^o "night", *úvn*^{ne} "dry season", *nīntāḡ*^{a/} "heat of the day", but such nouns inflect and may occur with dependents.

Absolute clauses 21.1 are frequently used to express time.

No formal distinction is made between points in time and periods of time:

| | |
|---------------------------|----------------------------|
| <i>Fò ná kūl bēog.</i> | "You'll go home tomorrow." |
| 2SG IRR go.home tomorrow. | |

| | |
|---|--|
| <i>Tì kpélìm ànínā dábı̀sà bı́'èlà.</i> | |
| 1PL remain ADV:there day:PL few. | |
| "We stayed there a few days." | |

13.3 Place

Locative AdvPs consist of Kusaasi place names, specialised locative adverbs, or NPs followed by postpositions. The core locative postposition is the particle $n\bar{i}/\sim n^{\varepsilon}$. Some postpositions are themselves followed by n^{ε} ; many postpositions are converted nouns. Nouns other than place names cannot otherwise be used alone as locatives.

Besides locative proforms, specialised locative adverbs include $y\grave{i}\eta^a$ "outside", $d\grave{a}t\grave{i}\eta\eta^{\circ}$ or $d\grave{i}t\acute{o}\eta^{\circ}$ "right(hand)", $d\grave{a}g\grave{o}b\grave{i}g^a$ "left", $\grave{a}g\acute{o}l^{l\varepsilon}$ or $\grave{a}g\acute{o}l\acute{a}$ "upwards", $l\grave{a}l\acute{l}\acute{i}$ "far off" (perhaps from $l\grave{a}l\ n\acute{i}$.)

The locative particle takes the form $n\bar{i}/$ after words ending in a short vowel in SF, after pronouns and after loanwords, and the liaison-word form n^{ε} elsewhere:

| | | | |
|--------------------------|-------------|----------------------------------|---------------|
| $m\grave{o}'ar\bar{i}=n$ | "in a lake" | $y\bar{o}d\acute{a}\ n\grave{i}$ | "among names" |
| $\grave{m}\ n\bar{i}$ | "in me" | $m\bar{a}n\ n\bar{i}$ | "in me" |

$la'as\upsilon g\ d\acute{o}d\bar{i}n\ n\varepsilon\ suoya\ n\bar{i}$
 $l\grave{a}'as\grave{o}g\ d\acute{o}d\bar{i}=n\ n\bar{\varepsilon}\ s\upsilon\bar{e}y\acute{a}\ n\grave{i}$
 assembly:SG house:PL=LOC with road:PL LOC
 "in the synagogues and in the streets" (Mt 6:2)

$Y\bar{i}r^{\varepsilon/l}$ "house" has the exceptional sg and pl locative forms $y\grave{i}n^{n\varepsilon}$ $y\acute{a}a=n^{\varepsilon}$ which have the particular nuance "home", as in the parting formula

$P\grave{o}'\upsilon s\grave{i}m\ y\grave{i}n.$ "Greet (those) at home." i.e. "Goodbye."

The article $l\bar{a}/$ may precede or follow the locative particle, as may quantifiers:

$m\grave{o}'ar\bar{i}=n\ l\bar{a}$ or $m\grave{o}'ar\ l\bar{a}\ n\acute{i}$ "in the lake"

$m\ g\bar{b}ana\ n\bar{i}\ wusa$ "in all my letters" (2 Thess 3:17, 1996)
 $\grave{m}\ g\bar{b}\grave{a}n\grave{a}\ n\acute{i}\ w\bar{o}s\bar{a}$
 1SG letter:PL LOC all

The meaning is completely non-specific location: "at, in, to, from." The locative particle is attached to nouns which are not place names whenever they are used as complements of verbs expressing motion or location:

$Kem\ Siloam\ buligini\ pie\ f\upsilon\ nini.$
 $K\grave{e}m\ Siloam\ b\acute{u}l\upsilon g\bar{o}=\bar{n}\bar{i}_{} _{} p\acute{i}\theta_{} f\grave{u}\ n\bar{i}n\acute{i}.$
 Go:IMP Siloam well:SG=LOC CAT wash 2SG eye:PL.
 "Go to the well of Siloam and wash your eyes." (Jn 9:7)

Ka Svntaana kpen' Judas [...] svnfvn.

Kà Svtáanà kpéñ' Judas [...] súñfī=n.

And Satan enter Judas [...] heart:SG=LOC.

"Satan entered Judas' heart." (Lk 22:3)

Ka Paillet len yi nidibin la na ya'asi yeli ba ye...

Kà Paillet lélm yī nīdībī=n lā nā yá'asì ∅ yéì=bā yē...

And Pilate again emerge person:PL=LOC ART hither again CAT say=3PL that ...

"Pilate came out to the people again and said to them ..." (Jn 19:4)

ILK has e.g.

Ò bē dā'a=n.

"He's at market."

Ò bē sīá'arī=n.

"He's at the bush."

Ò bē pōogú=n.

"He's at the farm."

Ò bē yīn.

"He's at home."

Ò bē mōogū=n.

"He's in the grasslands."

Ò bē kōlīgī=n

"He's at the stream."

Ò bē tūvmī=n.

"He's at work."

More precise meanings are expressed with postpositions [13.5](#).

Kusaasi place names are intrinsically locative and do not take the locative particle; however, they often have a locative proform in apposition, particularly to express rest at a place, as opposed to movement:

Ò bē Bók.

"He's at Bawku." ILK

Ò bē Tēmpáan.

"He's at Tempane." ILK

Ò kēη Bók.

"He's gone to Bawku."

M ná kēη Bók.

"I'm going to Bawku."

Fò yûug Bók kpēlāa?

"Have you been long in Bawku (here)?"

Fò yûug Bókàa? SB

(rejected by WK as "Mooré")

For my informants, foreign place names share the syntactic behaviour of Kusaasi place names, but (especially in the sense of rest at a place) NT often uses *nī*^l or paraphrases like *Jerusalem téηī=n* "in Jerusalem-land."

The locative particle also appears in some *time* expressions: *bēog*^o "tomorrow", *bēogū=n*^{el} "morning", *yīīgī=n*^e "at first" *sān-sī'ə=n lā* "at one time, once..."

Proforms used as locative heads of relative clauses are intrinsically locative:

Onε ken likin zi' on ken si'ela.

Ōnì kēn līkī=n zī' ón kēn sī'elā=∅.

REL.AN go:IPFV darkness=LOC NEG.KNOW 3AN:NZ go:IPFV INDF.IN=NEG.

"He who walks in darkness does not know where he is going." (Jn 12:35)

ka mōri fv keη zin'ikanε ka fv pv bōōda.

kà mōrí=fv ∅ kēη zīñ'-kànì kà fv pō bōōdā=∅.

and have=2SG CAT go place-REL.SG and 2SG NEG.IND want=NEG.

"and take you where you do not want." (Jn 21:18)

Reason-why AdvPs are constructed by a metaphorical extension of the sense of the postposition *zūg* "upon"; similarly for proforms:

àlá zùg[∅] "therefore" *bō zúg[∅]* "why?"

dìn zúg[∅] "therefore"

13.4 Manner

Various NP types can be used as manner AdvPs. AdvPs of manner may be proforms, and there are several morphologically distinctive manner-adverb formations; like specialised time adverbs, specialised manner-adverbs do not take dependents. They often show apocope-blocking 3.2; some have the manner-adverb prefix *à-* 10.2 or are derived from adjective stems with the suffixes *mm* or *-ga* 8.2. Others include *pāalú* "openly" and *ñyāe*^{NE/} "brightly, clearly." *Ñyāe*^{NE/} appears as complement of *àḡñ^{ya}* "be something" and as an adjunct:

Wina'am a su'um nyain. "God is light." (1 Jn 1:5, 1996)

Wínà'am áñ sóm ñyāe.

God COP good:ABSTR brightly.

... ke ka ti lieb nyain. "... make us light." (1 Jn 1:7)

... ké kà tì līəb ñyāe.

... cause and 1PL become brightly.

Ka li sid nie nyain. "And there truly was light." (Genesis 1:3)

Kà lì síd nìe ñyāe.

And 3IN truly appear brightly.

The spelling *nyain* appears for *ñyāe* even in texts prior to 2016, where *nyainn* or *nyai* might have been expected. The 1992 audio NT renders it [jãĩ].

A number of manner-adverbs are formed by reduplication of roots:

nà'anā' "easily" *kōñ'okō* "solely, by oneself"
tò'otō' "straight away"

Reduplication of nouns or numbers [12.5.1](#) creates distributive manner-AdvPs:

zīñ'ig zīñ'ig "place by place" *dàbìsìr dàbìsìr* "day by day"

Reduplication of manner-adverbs themselves is intensifying:

àsídà sídà "very truly" *àmēḡá mēḡá* "very truly"

Ḥ wóm Kōsâal bī'elá. "I know Kusaal a little."
 1SG hear:IPFV Kusaal slightly.

Ḥ wóm bī'el bī'el. "I understand a very little."
 1SG hear:IPFV little little.

Relative clauses with *sī'əm^m* "somehow" are common as AdvPs [21.2.1](#).

Manner-adverbs resemble generic mass nouns in their syntactic behaviour in several respects. Even count nouns in generic senses may be encountered as AdvPs:

Ḥ kēḡ nōbá. "I went on foot." SB; WK corrected this to
 1SG go leg:PL. *Ḥ kēḡ nē nōbá*, using *nē* "with."

A prepositional phrase with *nē* parallels a count plural used adverbially in

À-ñyē nē nīf sōñ'ō *À-wòm túbà.*
 PERS-see with eye:SG be.better.than PERS-hear ear:PL.

"Saw-with-eye beats Heard-with-Ears" (Seeing is believing.)

Mass quantifiers, like abstract mass nouns, are frequently used adverbially:

Ò tòm bédvḡ. "She's worked a lot."
Ò tòm pāmm. "She's worked a lot."

Wōsā "all" readily switches from quantifying an object to adverbial use:

Bà ḡòsī=tí wōsā. "They've looked at us all." WK
 3PL look.at=1PL all. (for: *Bà ḡòsí_tì wōsā*. 3PL look.at 1PL all.)

This is not a universal property of quantifiers:

Bà gòsī tí bédvǵō.

"They've looked at us a lot." WK

Bà gòsī tì bédvǵō.

"They've looked at a lot of us." WK

Numbers have specific forms for "so many times" [12.5.1](#); other count quantifiers sometimes appear similarly as adverbs:

Bà gòsī tí bábǵā.

"They've looked at us many times." WK

Bà gòsī tì bábǵā.

"They've looked at many of us." WK

13.5 Postpositions

Postpositions are adverbs with predependents; some also occur without. Most postpositions are literally or metaphorically locative. Postpositions may not be coordinated, but their predependents may:

tinam nε fvn svvginε?

"[what is there] between us and you?" (Mt 8:29)

tīnám nē fvn súvgō=né=∅?

1PL with 2SG between=LOC=CQ?

Many postpositions represent special uses of ordinary nouns. Some are AdvPs which include the locative particle.

Zūg^{∅/} "onto" (*zūg^{∅/}* "head"):

Ò dīgìl gbáyŋ lā tébòl lā zúg.

3AN lay.down book:SG ART table:SG ART upon.

"She's put the book on the table."

Zūg^{∅/} is frequently used metaphorically to express a **reason** "because of ..."; reason AdvPs often occur preposed with *kà* or as postlinker adjuncts:

bō-zúgò?

"why?"

dāy lā zúg

"on account of the man"

Pian'akanε ka m pian' tisi ya la zug, ya anε nyain.

Pḡāñ'-kànì kà m pḡāñ' ∅ tísì=yā lā zúg, yà á nē ñyāe.

Word-REL.SG and 1SG speak CAT give=2PL ART upon, 2PL COP FOC brightly.

"Because of the words I have spoken to you, you are clean." (Jn 15:3)

The set expression *sāa zúg*^o is used for "sky"; it is intrinsically locative:

Ka kvkɔr yi saazug na ...

Kà k̀̀k̀ɔr yī sāa zúg nā ...

And voice:SG emerge rain:SG onto hither

"And a voice came from heaven..." (Jn 12:28)

Zūg^o=*n*^ε "on":

téeb̀̀l̄ lā zúḡ̄=n "on the table"

Tēhír^ε "under" (*tēh*^a "ground"; with no predependent *G̀̀s̀̀m̄ tēhír!* "Look down!"):

téeb̀̀l̄ lā tēhír "under the table"

P̄̀v̄̀ḡ̀^o=*n*^{ε/} "inside" (*p̄̀v̄̀ḡ̀*^a "belly, inside"):

Dāu lā bé nē d́́-k̀̀h̀̀ā lā p̄̀v̄̀ḡ̀=̄̄n.

Man:SG ART EXIST FOC hut-DEMST.SG ART inside:SG=LOC.

"The man is inside that hut."

ñwād̄̄s̄ ȳ̀v̄̀m̄ lā p̄̀v̄̀ḡ̀=̄̄n "months in the year" (metaphorical locative)

Bābá "beside" (pl of *bābīr*^{ε/} "sphere of activity"):

̀̀n̄ nōbá b̀̀b̀̀à "beside my feet"

S̀̀s̀̀v̄̀ḡ̀^o=*n*^{ε/} "between" (replaced by *s̀̀v̄̀ḡ̀*^o=*n*^{ε/} in KB):

t̄̀nám̄ nē f̄̀n̄ s̀̀s̀v̄̀ḡ̀=̄̄n "between us and you"

T̀̀t̄̀on^{ne} "in front of" (with no predependent *G̀̀s̀̀m̄ t̀̀t̄̀on!* "Look to the front!"):

dāká lā t̀̀t̄̀on "in front of the box"

Ñyá'aŋ^a "behind; after (time)" (*ñyá'aŋ*^a "back", *l̄̀ ñyá'aŋ*^a "afterwards"):

Nē'ŋá ñyá'aŋ kà ò k̄̀l̄. "After this she went home."

DEMST.IN after and 3AN go.home.

Gbìn^{nɛ} "at the bottom of" (*gbìn*^{nɛ} "buttock"):

zūər lā gbín "at the foot of the mountain"

Sā'an^{ɛl} "into/in the presence of", "in the opinion of", "chez":

Wínà'am sâ'an "in the sight of God"

Fò ná dī'e tîm pụ'á-bàmmā lā sâ'an.

2SG IRR receive medicine woman-DEMST.PL ART among.

"You'll get the medicine from where those women are."

Yēlá "about, concerning" (pl of *yēl*^{lɛl} "matter, affair"):

Bà yèlō=∅ mān yēlá wōsā.

3PL say=3AN 1SG.CNTR about all.

"They told him all about me."

Kōñ'ɔkɔ (cf *àràkón'* "one" in counting) is used as in *m̄ kōñ'ɔkɔ* "by myself."

13.6 Proadverbs

| | Demonstrative | Indefinite | Interrogative | |
|--------|-----------------------------|-------------|---------------------------|---|
| Place | <i>kpē</i> | "here" | <i>zìñ'-sī'a</i> | <i>yáa ní</i> "where?" |
| | <i>kpēlá</i> | "there" | "somewhere" | <i>yáa</i> "whither |
| | <i>àní</i> | "there" | | /whence?" |
| | <i>ànínā'</i> | "there" | | |
| Time | <i>nānná</i> | "now" | <i>sān-sī'a</i> | <i>sān-kán</i> ^ɛ "when?" |
| | <i>nānná-nā'</i> | "now" | "sometime" | <i>būn-dāar</i> ^ɛ "which day?" |
| | <i>sān-kán</i> ^ɛ | "then" | | <i>bò-wìn</i> ^{nɛ} "what time of day?" |
| Manner | <i>àñwá</i> | "like this" | <i>sī'əm</i> ^m | <i>wēlá</i> "how?" |
| | <i>àwá nā'</i> | "like this" | "somehow" | |
| | <i>àlá</i> | "like that" | | |

The indefinites are used in relative clauses 21.2.1.

The *à-* of the "manner" forms is preceded by the LF-final vowel -ɪ 4.2.

Proforms expressing reason are formed with the postposition *zūg*^{ɔl}: *àlá zùg*^ɔ "because of that", *bōzúgò?* "why?" (cf *bō zúgō* "because" 17.2.1.)

14 Ideophones

Adjectives cannot themselves take adverbs as modifiers. In e.g.

Lì à nē pìèlìg pāmm. "It's very white"

the adverb *pāmm* goes with the copula verb rather than the adjective; it is not possible to say **fū-pìèlìg pāmm lā* for "the very white shirt."

However, an adjective in any role may be immediately followed by an intensifying ideophone, as may the derived stative verbs. As is common cross-linguistically, ideophones often display unusual phonological features. Such ideophones are specific to particular adjectives and the corresponding stative verbs.

| | | |
|-------------------------------------|-------------------------------|----|
| <i>Lì à nē pìèlìg fáss fáss.</i> | "It's very white." | |
| <i>Lì à nē sābílìg zím zím.</i> | "It's deep black." | |
| <i>Lì à nē zǐǎ'a wím wím.</i> | "It's deep red." | |
| <i>Lì à nē fū-zǐǎ'a wím wím.</i> | "It's a deep red shirt." | WK |
| <i>M̄ ñyé fū-zǐǎ'a wím wím.</i> | "I've seen a deep red shirt." | WK |
| <i>Fū-zǐǎ'a wím wím bé.</i> | "There's a deep red shirt." | WK |
| <i>M̄ bōod fū-zǐǎ'a wím wím lā.</i> | "I want the deep red shirt." | WK |

| | |
|---------------------------|---------------------|
| <i>Ò à nē wōk tólìlì.</i> | "She's very tall." |
| <i>Ò à nē gīṅ tírìgà.</i> | "She's very short." |
| <i>Ò wà'am tólìlì.</i> | "She's very tall." |
| <i>Ò gìm nē tírìgà.</i> | "She's very short." |

Not all adjectives, or even all gradable adjectives, have associated ideophones; thus WK has only the adverb *pāmm* in

| | |
|----------------------------|-------------------|
| <i>Lì à sùṅā pāmm.</i> | "It's very good." |
| <i>Lì à nē bē'ed pāmm.</i> | "It's very bad." |
| <i>Lì zùlìm pāmm.</i> | "It's very deep." |
| <i>Lì mà'as pāmm.</i> | "It's very damp." |

Most dynamic verbs likewise are not associated with ideophones:

| | |
|--------------------|---|
| <i>Ò tòm pāmm.</i> | "She's worked hard." |
| <i>Ò tòm hālì.</i> | "She's worked hard." 24.7 |
| <i>Ò zò pāmm.</i> | "She's run a lot." |
| <i>Ò zò hālì.</i> | "She's run a lot." |

However, many verbs can be followed by words which are again stereotyped and often show phonological features not found in the regular vocabulary. These are often more obviously onomatopoeic than the ideophones which intensify adjectives, and are not generally uniquely associated with particular verbs:

Ò zòt nē tólìb tólìb. "He [a rabbit] is running lollop-lollop." WK

Similarly, the stance verb *zì'e*^{ya} "be standing" and its dual-aspect derivatives are often followed by *sāpī* "straight" (LF *sappinε* KB), but the word is found also after other verbs.

ka ku nyaje due o meŋi zi'e sappi.
kà kú ñyāŋī_ø dúe ò mēŋī_ø zì'e sāpī.
 and NEG.IRR prevail CAT rise 3AN self CAT stand IDEO
 "and was not able to rise and stand straight." (Lk 13:11, 1996)

maalim suoraug sappi mōogin la
màalim sūā-dāvɔg sāpī mōogō=n lā
 make:IMP road-male:SG IDEO grass:SG=LOC ART
 "Make straight the high road in the wilderness" (Isaiah 40:3)

Ideophones of this type resemble manner adverbs syntactically, and similarly can be preposed with *kà* (Abubakari 2017.) There is perhaps some overlap of categories: see on *ñyāe*^{ne/} "brightly", for example [13.4](#).

A third type of ideophone overlaps with emphatics [24.7](#): so, for example *kímm* in *Bō kímm* "what exactly?" [12.4.4](#).

15 Prepositions

Prepositional phrases function as VP adjuncts or complements. They cannot be direct components of noun phrases. Neither prepositions nor their complements can be coordinated. *Nē* "with" only takes NPs or AdvPs (including *ñ*-clauses) as complements, but the other prepositions also appear as clause adjuncts 17.2.1.

Nē is "with" in both accompanying and instrumental senses. *Nē* "and", coordinating NPs and AdvPs, is fundamentally the same word.

Some speakers only use free pronoun forms after *nē*, but WK and SB have

| | |
|-------------------------------------|-------------------------------|
| <i>ní m^a</i> | <i>ní tī'</i> or <i>né tì</i> |
| <i>ní f^o</i> | <i>ní yā'</i> or <i>né yà</i> |
| <i>nó</i> [nõ] LF <i>nó=o</i> [nõ:] | <i>ní bā'</i> or <i>né bà</i> |
| <i>ní lī'</i> or <i>né lì</i> | |

Written *ne o* is usually read [nõ] in the audio NT.

Examples for *nē*:

Lìgíním fù nīf né fù nū'ug.

Cover:IMP 2SG eye:SG with 2SG hand:SG.

"Cover your eye with your hand."

Bà kèη nē nōbá.

"They've gone on foot." WK

3PL go with leg:PL.

Dìm nē Wīn, dā tō'as nē Wīnné=∅.

Eat:IMP with God:SG, NEG.IMP talk with God:SG=NEG.

"Eat with God, don't talk with God."

(Proverb: Be grateful for God's generosity and don't complain.)

Kulim ne sumbugvsum.

"Go home in peace." (Mk 5:34)

Kùlìm nē sùmbōgvsí.

Go.home:IMP with peace.

[Bárikà né fù] kēn kēn.

[Blessing with 2SG] arrival arrival.

"Welcome!" (based on a greeting template 25)

M gēñ' né fù.

"I'm angry with you." SB

1SG get.angry:PRV with 2SG.

Là'am nē "together with" derives from a *n*-catenation construction 19.1:

...*mōr ya'am yinne la'am nē tēn'esa yinne.*

... *mōr yā'am yīnní là'am nē tēñ'esá yīnní.*

... have sense one together with thought one.

"... had one mind together with one thought." (Acts 4:32)

Wōv means "like." With pronoun complements WK has

wōv mān LF *mánè*

wóv tì

wōv fōn LF *fónè*

wóv yà

wōv òn^ε

wóv bà

wóv lì

WK permits phrases introduced by *wōv* to be preposed with *kà* 24.3, but rejects this construction for *nē* + NP:

Wōv búŋ nē kà ò zót.

Like donkey:SG like and 3AN run:IPFV.

"Like a donkey, he runs."

but **Né m nū'ug kà m sī'is.*

With 1SG hand:SG and 1SG touch.

is not possible for "With my hand, I touched it."

The complement is often a *sī'əm* relative clause 21.2.1:

Ò zòt wōv búŋì=∅ zòt sī'əm lā.

3AN run:IPFV like donkey:SG=NZ run:IPFV INDF.ADV ART.

"He runs like a donkey runs."

Wēn^{na/} "resemble" takes as complement a prepositional phrase introduced by *wōv* or *nē*. A complement of *wēn wōv*, *wēn nē* or of *wōv* alone is followed by an empty particle *nē* whenever it does not have the article *lā'*, even if it is a pronoun, or is specific, though not if it is a number (in which case, the meaning is "about"):

wōv mān nē

"like me"

wōv búŋ nē

"like a donkey"

wōv tūsá àyí'

"about 2000"

Alazugɔ mɔri ya'am wɔv wiigi ne...

Àlá zùgɔ, mɔrī=∅ yā'am wɔv wīgí nē...

Therefore, have=2PL.SUB sense like snake:PL like...

"Therefore, be wise as serpents ..." (Mt 10:16)

Àséé is "except for." Pronoun complements appear as free forms.

àsée Wínà'am

"except for God" (calquing Twi *gye Nyame*)

Hālí means "up to and including." Pronoun complements are free forms.

O daa pɔn anε ninkvɔd hali pin'ilvɔn sa.

Ò dāa pún à nē nīn-kôvɔd hālí pīñ'ilógv̄=n sá.

3AN TNS previously COP FOC person-killer:SG even beginning:SG=LOC since.

"He was a murderer from the beginning." (Jn 8:44)

Hālí can also appear as a prelinker adjunct and as an emphatic 24.7. As emphatic "even" preceding *nē* or *là'am nē* "(together) with" and a *n*-clause complement, it produces the meaning "despite, even though, even as":

Hali la'am ne on daa an yelsum wɔsa daan la, o da lieb nɔŋdaan...

Hālí là'am nē ón dāa áñ yēl-súm wɔsā dāan lā,

Even together with 3AN:NZ TNS COP matter-goodness all owner:SG ART,

ò dà lịəb nɔŋ-dāan...

3AN TNS become poverty-owner:SG...

"Despite his having possessed every blessing, he became poor..." (2 Cor 8:9)

Zugsɔb yel ye, Hali ne man vɔe nwa...

Zūg-sób yél yē, Hālí nē mán vōɛ ñwá ...

Lord say that even with 1SG:NZ be.alive this ...

"The Lord says: Even as I live .." (Rom 14:11)

hali ne man daa sɔbi tisi ya si'em la, m daa pɔ sɔbi li

hālí nē mán dāa sōbī_∅ tísì=yā sī'əm lā

even with 1SG:NZ TNS write CAT give=2PL INDF.ADV ART

̀n dāa p̄ sōbí=lī ...

1SG TNS NEG.IND write=3IN ...

"Despite how I wrote to you, I did not write it ..." (2 Cor 7:12)

16 Verb phrases

16.1 Structure

The core of the verb phrase is a verb word along with bound particles which, together with verb flexion, mark tense, aspect, mood and polarity. Some verb complements are liaison enclitics; remaining complements and adjuncts follow in that order, after which VP-final particles may occur.

The VP is subject to independency marking. This is primarily a tone overlay, but there are associated segmental features: the particle *yā* after phrase-final perfective forms and the dual-aspect verb imperative flexion *-ma* appear only when the tone overlay is present.

The system separates tense, marked by preverbal particles, from aspect, marked by verb flexion and postverbal *nē'*. As is common cross-linguistically, future reference is marked by *mood*. Negative markers vary with mood. Mood itself is marked primarily by such preverbal particles, but the flexion *-ma* of dual-aspect verbs is a portmanteau marker of imperative mood, positive polarity and independency.

The VP shows no agreement. Apparent number agreement in imperatives is actually due to the incorporation of the postposed 2nd pl subject pronoun ^{ya}.

Bound VP particles occur in a fixed order:

| | T1 | T2 | Mood | Preverb | | E1 | E2 | |
|------------|-------------|-----------------|--------------------------------------|---------------|------|----------------------|----------------------|------------|
| <i>lèε</i> | <i>dàa</i> | <i>nàm</i> | $\emptyset \leftrightarrow p\bar{v}$ | <i>pòn</i> | VERB | <i>n^ε</i> | <i>m^a</i> | <i>nē'</i> |
| | <i>sàa</i> | <i>ñyēε(tí)</i> | $\emptyset \leftrightarrow d\bar{a}$ | <i>lèm</i> | | <i>ya</i> | <i>f^o</i> | |
| | \emptyset | | $n\bar{a} \leftrightarrow k\bar{v}$ | <i>tì</i> | | | <i>o</i> | |
| | <i>pà'</i> | | | <i>kpèlìm</i> | | | <i>lì</i> | |
| | <i>sà</i> | | | <i>là'am</i> | | | <i>tì</i> | |
| | <i>dāa</i> | | | <i>dèηìm</i> | | | <i>ya</i> | |
| | <i>dà</i> | | | ... | | | <i>ba</i> | |

\emptyset marks slots where the absence of a particle can be contrastive.

T1, T2 are slots for tense particles; E1 for the liaison enclitics *n^ε* [16.3.2](#) ^{ya} [18.3](#); E2 for enclitic personal pronouns as (direct or indirect) objects, which unlike all other complements *precede* aspect-marking *nē'* [16.2.1](#). Only one bound object pronoun may occur; cf *n*-catenation using *tìs^ε* "give" [19.1](#).

The particles in the column "Mood" also mark polarity: positive \leftrightarrow negative.

For *lèε* "but" see [16.7](#).

Tone Pattern A verbs have all-M tones in the irrealis mood.

16.2 Aspect

The basic aspect distinction is **perfective** versus **imperfective**. Dual-aspect verbs distinguish aspects by flexion: the unmarked stem form is perfective, the suffix **-da* forms the imperfective, and a form with **-ma* is used for imperative when the verb word itself carries the independency-marking tone overlay [16.6.2](#). Single-aspect verbs have a single form which is always imperfective.

The terms **dynamic** and **stative** are used in this description as labels for verb classes, not aspects. Dynamic verbs can be morphologically dual-aspect or single-aspect. They typically express occurrences, but can also express states: the imperfective form of a dynamic verb can have habitual/propensity meaning, which can be regarded either as expressing multiple occurrences or as a state, describing the character of the subject, and the perfective of dynamic verbs which express a change of state in the subject can express the resulting state itself. Stative verbs are all single-aspect. By default, they express persistent/abiding states.

16.2.1 Aspectual *nē*

Following a verb word with no free words intervening, the VP focus particle *nē* [24.1.2](#) by default marks a contrast with another time at which the situation expressed by the verb did not obtain; the meaning might be paraphrased "at the time referred to in particular." This usually occurs because the time referred to is not coextensive with the time of the situation (CGEL pp125 ff.) With imperfective aspect, this happens when the time referred to is strictly contained within the time of the situation: the meaning is similar to the English "progressive", and is similarly not freely used with verbs which by default express abiding states. With perfectives expressing events, the time referred to and the time of the situation always coincide, and aspectual use of *nē* is not possible; however, *resultative* perfectives express a state resulting from the action of the verb, and because this state follows the action the time referred to and the time of the situation never coincide. Accordingly, aspectual *nē* after a perfective form marks it as resultative; conversely, if a perfective verb form does not express a change of state in the subject, any following *nē* cannot be aspectual.

Nē may not be used at all in certain syntactic contexts, and may not appear a second time in an aspectual sense if it is already present focussing a constituent. Furthermore, *nē* can only be interpreted aspectually if no free words intervene between the particle and the verb, and the VP has positive polarity and indicative mood. When aspectual senses are not excluded by the meaning of the verb itself, the relevant aspect distinctions still occur, but are formally unmarked:

Ò *kùə̀sìdī=bá nē*.

3AN sell:IPFV=3PL FOC.

"She's selling them."

Ò kùèsìd nē sūmmā lā. "She is selling the groundnuts."
 3AN sell:IPFV FOC groundnut:PL ART.

but Ò kùèsìd sūmmā lā nē. "She sells/is selling the groundnuts."
 3AN sell:IPFV groundnut:PL ART FOC. (VP focussed: "They're not free.")

Ò zàbìd. "He fights."
 3AN fight:IPFV.

Ò zàbìd nē. "He's fighting."
 3AN fight:IPFV FOC.

but Ò p̄v zàbìdā=∅. "He's not fighting/He doesn't fight."
 3AN NEG.IND fight:IPFV=NEG.

Nē' cannot have aspectual meaning in **generic** statements. These are usually recognisable by the fact that they have indefinite subjects without determiners (or pronouns referring to such subjects) and are not presentational [24.5](#):

Nīgí òñbìd nē mōɔd. Bā nùud nē kù'əm.
 Cow:PL chew:IPFV FOC grass:PL. 3PL drink:IPFV FOC water.
 "Cows eat *grass*. They drink *water*." ("What do cows eat? and drink?")

Nē' is omitted in replying to questions or commands by repeating the verb:

| | | | |
|-------------------|--------------------|--------------|----------------|
| A: Gòsìm! | "Look!" | B: M̄ gósìd! | "I'm looking!" |
| A: Fv̄ gósìd nēɛ? | "Are you looking?" | B: M̄ gósìd! | "I'm looking!" |

16.2.2 Perfective

Perfective is the unmarked aspect. It is not incompatible with a present tense interpretation, often corresponding to the English "simple present", which is likewise unmarked over against the progressive form. It is the usual aspect found with the irrealis mood to express future events, and in *yà*'-clauses [20.2](#). Nevertheless, even without tense marking, the perfective often has an implication of completion, in contrast with the imperfective.

The perfective frequently does occur without tense marking, either explicit or implicit from context. With most verbs this simply expresses a completed event or process with the time unspecified, creating the implication that the event is still currently relevant; the sense resembles the English "present perfect":

Sāa dāa nī.

Rain TNS rain.

"It rained." (before yesterday.)

but *Sāa nī yā.*

Rain rain PFV.

"It has rained."

The time is unspecified: "Perhaps the grass is still wet, or I am explaining that the area is not really a desert." (WK)

Perfective appears with present meaning with events and processes which can be conceptualised as being coextensive with the moment of utterance:

Ò yèl yē ...

3AN say that ...

"He says" (translating for the foreign doctor)

Performatives naturally fall into this category:

Ẁ pō'us yā.

1SG greet PFV.

"Thankyou", "I thank you."

(cf Hausa *Naa goodèe*)

Ẁ sīák yā.

1SG agree PFV.

"I agree."

Verbs of perception and cognition (often corresponding to English "stative" verbs that do not use the progressive present) frequently appear as present perfectives, once again corresponding to English simple present:

Ẁ ñyé nū'-bībīsá àtán'.

1SG see hand-small:PL NUM:three.

"I can see three fingers."

Ẁ tēñ'es kà ...

1SG think and ...

"I think that ..."

Verbs expressing a change of state in the subject may use the perfective to express the resulting state. Aspectual *nē'* must then follow whenever syntactically permissible:

Lì bòdìg yā .

3IN lose PFV.

"It's got lost."

but *Lì bòdìg nē .*

3IN lose FOC.

"It's lost."

Most verbs expressing a change of state in the subject are either intransitive or patientive ambitransitive:

| | |
|--|-------------------------------------|
| <i>Ò kpì nē.</i> 3AN die FOC. | "He's dead." |
| <i>Ì géñ nē.</i> 1SG get.tired FOC. | "I'm tired." |
| <i>Bà kùdòg nē.</i> 3PL grow.old FOC. | "They're old." |
| <i>Lì pè'el nē.</i> 3IN fill FOC. | "It's full." |
| <i>Lì yò nē.</i> 3IN close FOC. | "It's closed." |
| <i>Ì búg nē.</i> 1SG get.drunk FOC. | "I'm drunk." (← Hausa <i>bùgu</i>) |
| <i>Ò lèr nē.</i> 3AN get.ugly FOC. | "He's ugly." WK <i>sic</i> |
| <i>Lì sòbìg nē.</i> 3IN blacken FOC. | "It's black." WK <i>sic</i> |

Agentive transitive verbs of dressing express a change of state in the subject:

| | |
|--|------------------------|
| <i>Ì yé fūug.</i> 1SG put.on shirt:SG. | "I've put a shirt on." |
| <i>Ì yé nē fūug.</i> 1SG put.on FOC shirt:SG. | "I'm wearing a shirt." |

A perfective form can *only* be interpreted as resultative if it expresses a change of state in the subject:

| | |
|--|---|
| <i>Ì dá' nē búg.</i> 1SG buy FOC donkey:SG. | "I've bought a <i>donkey</i> ." ("What have you bought?"; focussed object) |
|--|---|

Assume-stance verbs do not express a change of state in the subject, because stance verbs are not stative in Kusaal. Accordingly, the perfective of an assume-stance verb cannot accept a resultative reading:

Ò d̀ìgìn nē.
3AN lie.down FOC.

"He's *lain down*." DK: "Someone calls at your house and gets no answer; he thinks you're out but I'm explaining that you've gone to bed."

In catenation and in absolute clauses, the choice of perfective over imperfective implies that the event is complete. Consequently, in catenation the order of VPs when the first has perfective aspect is iconic, with constituent order constrained to follow event order 19. Thus while English might say: "Two men stood with them, dressed in white", Kusaal must have

Ka dapa ayi' ye fupiela zi'e ba san'an.

Kà dāpá àyí' yé fū-píələ̀ ø zì'e bà sā'an.

And man:PL NUM:two dress shirt-white:PL CAT stand 3PL among.

"Two men dressed in white were standing with them." (Acts 1:10)

In contrast, an imperfective may be followed by a perfective:

Ñwādisá àtáñ' kà fò ná mōr bīig lā n kē nā.

Month NUM:three and 2SG IRR have child:SG ART CAT come hither.

"Bring the child here in three months." ("having the child, come here.")

With absolute clauses as adjuncts, the temporal relationship to the main clause is determined by aspect, with perfective in the absolute clause implying priority and imperfective simultaneity 21.1. In the same way, narrative generally features series of tense-unmarked perfectives describing events strictly in order 16.3.4.

Perfectives may appear in general statements such as proverbs, which in such cases should probably be regarded as mini-anecdotes:

Kukoma da zab taaba ason'e bi'ela yela.

Kòkòmà dá zàb tāabá à-sōñ'e bī'ələ́ yèlà.

Leper:PL TNS fight each.other PERS-better.than slightly about.

"Lepers once fought each other about who was a bit better." KSS p40

16.2.3 Imperfective

Without aspectual *nḗ*, the imperfective of dynamic verbs is "habitual", expressing multiple occurrences, or a propensity of the subject to the achievement, accomplishment or activity expressed by the verb:

Nīdīb kpīid. "People die."
Person:PL die:IPFV.

Nīgí òñbìd mōɔd. "Cows eat grass."
Cow:PL chew:IPFV grass:PL.

M̄ zīñ'i. "I sit."
1SG be.sitting.

Stative single-aspect verbs express abiding states:

Ò gīm. "She's short."
3AN be.short.

M̄ mór pū'ā. "I have a wife."
1SG have wife:SG.

With aspectual *nḗ*, the imperfective has continuous/progressive meaning. This is permitted only if the subject is an agent (including the subjects of stance verbs), is undergoing a change in internal state, or is moving without external agency.

Nā'-síəbà óñbìd nḗ mōɔd. "Some cows are eating grass."
Cow-INDEF.PL chew:IPFV FOC grass:PL.

M̄ zīñ'i nḗ. "I'm sitting."
1SG be.sitting FOC.

M̄ yōɔd nḗ kúlìŋ lā. "I'm closing the door."
1SG close:IPFV FOC door:SG ART.

Kùlìŋ lā yōɔd nḗ. "The door is closing."
Door:SG ART close:IPFV FOC.

Lì mà'ad nḗ. "It is getting cool." (*mā'e'* "get cool")
3IN get.cool:IPFV FOC.

Gbàṅà sóbìd zīnà. "Letters get written today." WK
Letter:PL write:IPFV today.

Gbàṅṅ lā sóbìd sọṅā. "The letter is writing well (i.e. easily.)" WK
Letter:SG ART write:IPFV good:ADV.

Lì lịt nē. "It is falling."
3IN fall:IPFV FOC.

Otherwise, *nē'* must be interpreted as focussing a constituent, not as aspectual:

Dāam lā nūud. "The beer gets drunk." WK
Beer ART drink:IPFV.

but *Dāam lā nūud nē.* Only "The beer is for *drinking*." WK
Beer ART drink:IPFV FOC. ("Not for throwing away."); Focus on the verb:
not "The beer is being drunk."

Nē' after stative verbs is thus normally interpreted as focussing a constituent:

Ò gịm nē. "He's *short*." ("I was expecting someone taller.")
3AN be.short FOC.

Ẁ mór nē pụ'ā. "I have a woman."
1SG have FOC woman:SG. (not "wife": implies an irregular liaison, WK)

However, if there is an explicit time reference in the clause itself (even just a tense marker) it can constrain the meaning to a temporary state, limited to a particular time period, with a contrast between the time referred to and other times when the state was not in effect.

Lì vèn nē. "It's *beautiful*." (Focus on the verb.)
3IN be.beautiful FOC.

but *Nānnánā, lị vèn nē.* "Just now, it's beautiful."
Now, 3IN be.beautiful FOC.

Lì dāa vén nē. "It *was* beautiful." WK: "I gave you a cup, and
3IN TNS be.beautiful FOC. it was OK then, but now you've spoiled it."

Sān-kán lā, lì dāa zúlìm nē.

Time-DEM.SG ART, 3IN TNS be.deep FOC.

"At that time, it was deep."

Mù'ar lā dāa zúlìm nē. "The lake was deep."

Lake:SG ART TNS be.deep FOC. (Implying, "Now it's shallow." WK)

With dynamic verbs describing events the sense is often an analogous time-limited habitual rather than progressive:

Nīdīb kpīd nē. "People are dying."

Person:PL die:IPFV FOC.

If the following constituent does not permit focussing with *nē'* [24.1.2](#), *nē'* is constrained to be aspectual even without an explicit time limitation present:

M̄ mór bīisá_ àtánā.

1SG have child:PL NUM:three.exactly.

"I've got exactly three children."

but *M̄ mór nē bīisá_ àtánā.*

1SG have FOC child:PL NUM:three.exactly.

"I've got exactly three children just now." DK: "You're on a school trip, talking about how many children everyone has brought."

Lì dāa áñ súnā.

"It was good." WK

3IN TNS COP good:ADV.

Lì dāa á nē súnā.

"At the time, it was good." WK

3IN TNS COP FOC good:ADV.

Lì à nē súnā.

"It's good." ("Now; it wasn't before." WK)

3IN COP FOC good:ADV.

Emphatics [24.7](#) do not reject focus with *nē'*:

bɔzugɔ o anɛ fɔ biig mɛn.

bɔ zúgɔ ò à né fò bīig mén.

Because 3AN COP FOC 2SG child:SG also.

"Because he is your child too." (Genesis 21:13)

16.3 Tense

16.3.1 Tense particles

Tense particles come first in the VP, preceded only by *lèε* "but." They are mutually exclusive:

| | |
|-------------|--------------------------------------|
| <i>dàa</i> | "day after tomorrow" |
| <i>sàa</i> | "tomorrow" |
| \emptyset | present, or implicit (see below) |
| <i>pà'</i> | "earlier today" |
| <i>sà</i> | "yesterday" |
| <i>dāa</i> | before yesterday |
| <i>dà</i> | before the time marked by <i>dāa</i> |

These particles (including \emptyset) may be followed immediately in the tense slot by either of the two auxiliary tense particles *nàm* "still/yet" or *ñyēε (tí)* "habitually."

The day begins at sunrise:

| | |
|------------------------------|--|
| <i>F̀ò sá gb̀ìs wḗlá=∅?</i> | "How did you sleep yesterday?" i.e. "last night" |
| 2SG TNS sleep how=CQ? | |

Future tense markers normally require irrealis mood, but imperative is possible if a main clause has been ellipited before a subordinate clause of purpose:

| | |
|-----------------------------|-------------------------------------|
| <i>Ò sáa zàb nà'ab lā.</i> | "Let him fight the chief tomorrow." |
| 3AN TNS fight chief:SG ART. | |

Dāa means "before yesterday" but can be used freely for even remote past. The NT has numerous parallel passages where the same events are narrated in one passage with *dāa* and in another with *dà*, but when both markers occur, *dà* always expresses time prior to *dāa*. (For other "pluperfects", cf tense marking in content clauses [22.2](#), and in *̀n*-clauses within narrative [16.3.4](#).)

Nàm means "still" or with a negative "yet":

| | |
|------------------------------|------------------------------------|
| <i>T̀um lā nám bèε=∅?</i> | "Is there any medicine left?" |
| Medicine ART still EXIST=PQ? | ("Does the medicine still exist?") |

dunia nam pu pin'il la

dūniyá=∅ nàm pō pīñ'il lā

world:SG=NZ still NEG.IND begin ART

"before the world began" (Mt 25:34) ("The world having not yet begun.")

M̄ nám zī' ∅ ñyē gbīgīmnē=∅.

1SG still NEG.KNOW CAT see lion:SG=NEG.

"I've never seen a lion." SB (see [19.1](#) on *n*-catenation idioms)

Ñyēε or *ñyēε tí* (KT *ēēñ tí*, NT *nyii ti*, KB *εenti*) means "habitually." The main verb is imperfective.

Ò ñyēε zábìd nâ'ab lā.

3AN usually fight:IPFV chief:SG ART.

"He's accustomed to fight the chief." WK

Ò ñyēε gōsīd nâ'ab lā.

3AN usually look.at:IPFV chief:SG ART.

"He's accustomed to look at the chief." WK

Ò dāa ñyēε zábìd nâ'ab lā.

3AN TNS usually fight:IPFV chief:SG ART.

"He was accustomed to fight the chief." WK

Ò ēēñ tí zàbìd nē nâ'ab lā.

3AN usually fight:IPFV FOC chief:SG ART.

"He's accustomed to fight the chief." KT

Ò ēēñ tí zìñ'i kpēlá.

3AN usually be.sitting there.

"She's accustomed to sit there." KT

Ò ēēñ tí dīgī kpēlá.

3AN usually be.lying there.

"She's accustomed to lie there." KT

Ti εenti pu sobid dine ka ya na karim ka ku nyaŋi gban'e li gbinne.

Tì ēēñ tí pō sōbīd dínì kà yà ná kārīm kà kú ñyāñī ∅

1PL usually NEG.IND write:IPFV REL.IN and 2PL IRR read and NEG.IRR prevail CAT

gbáñ'e lì gbìnnē=∅.

grab 3IN base:SG=NEG.

"We do not write what you will read and not be able to grasp the meaning of."

(2 Cor 1:13)

16.3.2 Discontinuous past

My informants use the **discontinuous-past** marker n^{ε} to make an earlier-today past with indicative meaning:

\dot{M} $\acute{o}\check{n}b\acute{d}\bar{i}=n$ $s\bar{u}mm\bar{a}$. "I was eating groundnuts."
1SG chew:IPFV=DP groundnut:PL.

This implies "and now I'm not", a sort of anti-current-relevance. Such a "discontinuous" past is proposed for many languages (especially in West Africa) in Plungian and van der Auwera 2006; n^{ε} fulfils their criteria for a typical discontinuous past well. They note (5.2) that such markers often acquire attenuative, hypothetical or counterfactual senses, which are much the commonest roles of n^{ε} in Kusaal [20.1](#).

16.3.3 Periphrastic futures

Kusaal does not use tense-unmarked indicative imperfectives for immediate future (like English "I'm going home.") Note the use of the *perfective* in

\dot{M} $k\acute{u}l$ $y\bar{a}$. equivalent in usage to "I'm going home now."
1SG go.home PFV. Perfective as an instantaneous present [16.2.2](#)

There are two periphrastic indicative constructions for "to be about to ...":

(a) $b\acute{o}\acute{o}d^a$ "want" + gerund. The subject need not be animate; the construction is only possible with gerunds from dynamic verbs.

$T\acute{u}g$ $l\bar{a}$ $b\acute{o}\acute{o}d$ $l\bar{i}g$. "The tree is about to fall."
Tree:SG ART want fall:GER.

$Y\acute{u}'v\eta$ $b\acute{o}\acute{o}d$ $g\acute{a}ad\acute{v}g$, $k\acute{a}$ $b\acute{e}og$ $b\acute{o}\acute{o}d$ $n\bar{i}er$.

$Y\acute{u}'v\eta$ $b\acute{o}\acute{o}d$ $g\acute{a}ad\acute{v}g$ $k\acute{a}$ $b\acute{e}og$ $b\acute{o}\acute{o}d$ $n\bar{i}\acute{e}r$.

Night want pass:GER and morning want appear:GER.

"The night is about to pass and tomorrow is about to appear." (Rom 13:12)

(b) subject + $y\bar{e}$ -purpose clause; the subject must be animate. (Cf also [22.2](#).)

\dot{M} $y\acute{e}$ \grave{m} $k\acute{u}\bar{a}$ $s\bar{u}mm\bar{a}$. "I'm going to hoe groundnuts."
1SG that 1SG hoe groundnut:PL.

\dot{M} $y\acute{e}$ \grave{m} $k\acute{i}\acute{a}$ $n\bar{i}m$. "I'm going to cut meat"
1SG that 1SG cut meat:SG.

16.3.4 Implicit tense and narrative

Tense markers are frequently absent. As a basic principle, explicit marking is not needed when the time reference is recoverable from the linguistic context, but the occurrence of tense markers is not arbitrary, and contrasts with \emptyset may occur.

Real-world context does not in itself licence omission of tense markers. If there is no other time-referring element in the clause, the absence of any tense particle is meaningful. By default, it simply means that the tense is present, whether the aspect is imperfective or perfective:

Nīdīb kp̄id nē. "People are dying."
Person:PL die:IPFV FOC.

Nīdīb kp̄id. "People die."
Person:PL die:IPFV.

Ò m̀òr p̄'ā. "He has a wife."
3AN have wife:SG.

Ò kp̄i yā. "She's died." ("present perfect")
3AN die PFV.

In isolation, it is not possible to interpret such expressions as referring to the past (see below on informal narrative.)

Tense-markers may be omitted with the irrealis mood, with $-n^E$ as today-past, or with another time reference in the clause itself, like a time adverb:

F̀ò sáa nà k̄l. "You'll go home tomorrow."
2SG TNS IRR go.home.

or *F̀ò sáa nà k̄l bēog.*
2SG TNS IRR go.home tomorrow.

or *F̀ò nà k̄l bēog.*
2SG IRR go.home tomorrow.

cf *F̀ò ná k̄l.* "You will go home."
2SG IRR go.home (today, tomorrow, next week ...)

M̄ pá' òñb̄idī=n sūmmā. "I was eating groundnuts earlier today."
1SG TNS chew:IPFV=DP groundnut:PL.

or *M̄ óñb̄idī=n sūmmā.*
1SG chew:IPFV=DP groundnut:PL.

M̄ sá zàb nâ'ab lā sū'əs. "I fought the chief yesterday."

1SG TNS fight chief:SG ART yesterday.

or *M̄ záb nâ'ab lā sū'əs.*

1SG fight chief:SG ART yesterday.

Systematic meaningful omission of past tense markers occurs in **narrative**.

In KB/NT narrative, main clauses which do not contain an explicit time expression show tense marking much more often than not, *unless* they are introduced by *kà*; the first 12 chapters of Acts in the 1996 version show over five times as many tense-marked as unmarked forms. On the other hand, clauses introduced by *kà* only have tense marking to signal that they disrupt the narrative flow, as with flashbacks or descriptive passages. KB/NT narrative varies in the proportion of tense-marked clauses without *kà* to unmarked clauses with *kà*; the Balaam's Donkey narrative [27.1](#) shows a higher proportion of tense-marked clauses without *kà* than typical NT narrative, for example. However, throughout KB, narrative favours long sequences of coordinated *kà*-clauses with perfective aspect without tense marking, narrating the sequence of events in order. Here *kà* itself corresponds to *zero* in English.

Less formal sources like the Three Murderers text [27.2](#) drop tense-marking in clauses *without kà* within narrative much more often than the Bible versions. In view of the consistency of the tense marking principles of KB/NT, narrative clauses of this kind are probably analogous to the "historic present" of English informal conversational narration (CGEL p130); significantly, *kpē* "here" and spatio-temporal deictics like *kàŋā* "this" are also common in such texts.

In any case, tense-marking must be absent in clauses introduced by *kà* which are carrying the narrative forward, and conversely, disruptions in narrative flow must normally be tense-marked (with exceptions as noted below.)

Presented with isolated *kà*-clauses with perfective aspect and no tense marking, my informants always interpreted them as expressing events, rejecting any aspectual interpretation of the particle *nē*' in favour of constituent focus; but with tense marking, *nē*' was, as usual, taken as aspectual by default:

Lì bòdìg nē.

3IN get.lost FOC.

"It's lost."

Kà ì bódìg nē.

And 3IN get.lost FOC.

Rejected by WK; accepted after some thought by DK, explained as contradicting "someone hid it" i.e. as contrastive focus

Bà kùdìg nē.

3PL get.old FOC.

"They're old."

Kà bà kúdìg nē.
And 3PL get.old FOC.

"And they're old." Rejected by WK; accepted by DK with the gloss "You're saying they're old when he promised to give you new ones", i.e. as contrastive focus

But *Kà ì dāa bódìg nē.*
And 3IN TNS get.lost FOC.

"And it was lost."

Kà bà sá kúdìg nē.
Kà bà dāa kúdìg nē.

etc all acceptable as "and they were old."

Thus, both with and without *kà*, tense-marking signals disruption of the narrative flow:

Ka Yesu daa an yoma pii ne ayi' la, ka ba keη malvη la wv ban εenti niηid si'em la. Ka malvη la dabisa naae la, ka ba lebidi kun. Ka Yesu kpelim Jerusalem teηin ka o ba' ne o ma pv baη ye o kpelim yaa. Ba daa ten'es ye o dɔlne ba teη dim la, ka keη ...

Kà Yesu=∅ dāa añ yómà pī né àyí' lā, kà bà kēη málòη
And Jesus=NZ TNS COP year:PL ten with NUM:two ART, and 3PL go sacrifice:SG
lā wv bān ēēñ tí niηid sī'əm lā. Kà málòη lā dábɪsà=∅
ART like 3PL:NZ usually do:IPFV INDEADV ART. And sacrifice:SG ART day:PL=NZ
nāe lā, kà bà lébɪdì ∅ kūn. Kà Yesu kpélìm Jerusalem
finish ART, and 3PL return:IPFV CAT go.home:IPFV. And Jesus remain Jerusalem
tēηī=n kà ò bā' né ò mà p̄v bāη yé ò kpèlìm
land:SG=LOC and 3AN father:SG with 3AN mother:SG NEG.IND realise that 3AN remain
yāa=∅. Bà dāa tēñ'es yé ò d̀l né bà tēη-d̀m lā, kà kēη...
PFV=NEG. 3PL TNS think that 3AN accompany FOC 3PL land-person.PL ART, and go...
"When Jesus **was** twelve years old, they went to Jerusalem to sacrifice as they were accustomed to. When the days of sacrifice were over, they were going home, but Jesus remained behind in Jerusalem, and his father and mother didn't realise that he had stayed. They **thought** that he was accompanying their fellow-countrymen. And they went ..." (Lk 2:42-44)

Note the "aside" *O ma da ane Uria po'a* in the genealogy of Jesus in Matthew 1.1ff 1996, which has dozens of clauses of the pattern *kà X d̀y'á Y* "and X begat Y":

*Ka Jese du'a na'ab David. Ka David du'a Solomon. O ma **da** ane Uria po'a. Ka Solomon du'a Rehoboam.*

Kà Jese dṽ'á nâ'ab David. Kà David dṽ'á Solomon. Ò mà
And Jesse beget king:SG David. And David beget Solomon. 3AN mother:SG
dá à nē Uria pṽ'á. Kà Solomon dṽ'á Rehoboam...
TNS COP FOC Uriah wife:SG. And Solomon beget Rehoboam...

"And Jesse begat King David. And David begat Solomon. His mother **was** Uriah's wife. And Solomon begat Rehoboam..." (Mt 1:6-7, 1996)

In contrast, the genealogy in Luke 3:23ff 1996 moves backwards in time and has dozens of consecutive examples of *ka X saam **da** ane Y* "and X's father **was** Y."

Disruptions in narrative flow normally *must* be tense-marked, but very long series of coordinated "asides" do sometimes drop tense marking; in KB the genealogy in Luke shows *ka X saam da ane Y* at the beginning of paragraphs in the text, but *ka X saam an Y* otherwise.

Tense-unmarked dynamic-verb imperfectives can appear without aspectual *nē'* in narrative to express several instances of an event:

*Ka on kpən' la, o yeli ba ye [...]. Ka ba **la'ad** o.*

Kà ón kpèñ' lā, ò yélì=bā yē [...]. Kà bà lá'adō=ø.

And 3AN:NZ enter ART, 3AN say=3PL that ... and 3PL laugh:IPFV=3AN.

"After he came in, he said to them [...]. But they **laughed** at him." (Mk 5:39-40)

N̄-clauses normally mark tense independently, but within narrative they mark tense relative to the narrative timeline:

Ńn dāa ñyēt súṅā ón dāa áñ bí-līa lāa=ø?

3AN.CNTR TNS see:IPFV good:ADV 3AN:NZ TNS COP child-baby:SG ART=PQ?

"Did he see well when he was a baby?"

but *Ka Pita yv'vn tien Yesu n sa yel si'el la ye ...*

Kà Pita yv'vn tjeñ Yesu=n sà yèl sī'əl lā yē ...

And Peter then remember Jesus=NZ TNS say INDE.IN ART that ...

"And Peter then remembered what Jesus had said the day before..." (Mt 26:75)

Main clauses lack tense marking after absolute clauses preposed with *kà* [24.3](#), regardless of whether tense marking appears in the absolute clause (132/136 cases in Mark, Luke, and Acts 1-14, 1976.) After absolute clauses as postlinker adjuncts [17.2.1](#), tense marking in main clauses follows the usual principles for narrative, with absolute clauses agreeing with their main clauses in tense-marking (69/78 cases.)

Nē is perhaps marking constituent focus in

Ka ban ken la, Jesus g̃bisid ne.

Kà b̃án k̃ēn l̃ā, Jesus gb̃is̃id ñē.

And 3PL:NZ go:IMPF ART, Jesus sleep:IPFV FOC.

"As they were travelling, Jesus was sleeping." (Lk 8:22-23, 1976)

KB *ka gb̃em z̃εεg Yesu ka o gb̃isid.* "sleep overcame Jesus and he slept."

If *nē* were aspectual, one would have expected tense marking.

Tense marking is not affected by clause adjuncts other than time expressions or by the "resumptive" *yē* of indirect speech 22.2.1; cf:

Amaa ba da zot o ne dabiem, ban da pu niη o yadda ye o sid anε nya'andol la zug. Amaa ka Barnabas zaη Saul n m̃or o keη ...

Àmáa bà dà zòt̃ō=∅ ñē dáb̃ĩem, b̃án dà p̃ū níηò=∅

But 3PL TNS fear:IPFV=3AN FOC fear, 3PL:NZ TNS NEG.IND do=3AN

yáddā yé ò s̃id à ñē ñyá'an-d̃òl l̃ā zúg. Àmáa kà Barnabas

faith that 3AN truly COP FOC disciple:SG ART upon. But and Barnabas

záη Saul n m̃ór=∅ ∅ k̃ēη ...

take Saul CAT have=3AN CAT go ...

"But they were afraid of him, because they did not believe that he was really a disciple. But Barnabas brought Saul ..." (Acts 9:26-27)

A tense-marked interruption in the narrative flow may itself contain clauses coordinated with *kà*; the tense marker of the first such clause is not repeated, but the following *kà*-clauses are not carrying on the narrative and can thus have any aspect:

Ba da pu mor biiga, bozugo Elizabet da ane kundu'ar, ka babayi la wusa me kudigne.

Bà dà p̃ū m̃ór b̃ĩigā=∅, b̃ōzúgō Elizabet dá à ñē

3PL TNS NEG.IND have child:SG=NEG, because Elizabeth TNS COP FOC

kúndv'ar kà bà bàyí' l̃ā w̃sā mé k̃d̃ìg ñē.

barren.woman:SG and 3PL NUM:two ART all also get.old FOC.

"They had no child, because Elizabeth was barren and they were both old."

(Lk 1:7, 1996; no *nε* in the KB *ka babayi' la wusa me kudig hali.*)

16.4 Mood

There are three moods: indicative, imperative and irrealis. The distinction among them is in itself quite straightforward, but the *marking* of mood involves portmanteau morphs which also express polarity, and in the case of the imperative, independency as well.

Indicative is the unmarked mood. It uses the negative particle *p̄*. It is used for statements and questions about the present and past, and timeless events and states. It can express the immediate future in periphrastic constructions. It is the only mood which permits the use of the particle *nē* with aspectual meaning.

Imperative mood is negated by *dā*. With dual-aspect verbs carrying the independency-marking tone overlay it shows a special inflection *-ma* [16.6.2](#) but otherwise the verb word coincides in form with the indicative.

Ò vòl t̄im kà ò nób̄ir p̄ zábē=∅.
 3AN swallow medicine and 3AN leg:SG NEG.IND fight=NEG.
 "She took medicine and her leg didn't hurt." WK

Ò vòl t̄im kà ò nób̄ir dā zábē=∅.
 3AN swallow medicine and 3AN leg:SG NEG.IMP fight=NEG.
 "She took medicine so her leg wouldn't hurt." WK

The *-ma* imperative of dual-aspect verbs is perfective by default:

Kòñsìm! "Cough!"

Imperatives without independency-marking tone overlay make perfective/imperfective distinctions in the usual way by verb flexion:

Dā kóñsē=∅! "Don't cough!" (To a patient who has coughed during an eye operation with local anaesthetic)
 NEG.IMP cough=NEG!

Dā kóñsídā=∅! "Don't cough!" (Explaining before the operation what to avoid throughout)
 NEG.IMP cough:IPFV=NEG!

See [18.3](#) on the postposed 2pl pronoun ^ya in commands to several people.

The particle *nē* cannot appear in its aspectual sense with the imperative, but *àlá* "thus" after imperatives imposes continuous/progressive meaning:

Dìm! "Eat!"
Dìmí àlá! "Carry on eating!"

Informants contract *-í-à-* either to *-í-* or to *-á-*: [dɪmɪla] [dɪmala].

Dìmī=ní *àlá!* "Keep ye on eating!" [dɪmɪɪla] [dɪmɪmala]
Eat:IMP=2PL.SUB ADV:thus!

Single-aspect verbs used as imperatives frequently add *àlá*:

Zí'ə àlá! (text *zi'ela*) "Be still!" (Jesus to the storm, Mk 4:39, 1976)

Dìgī=ní *àlá!* "Keep (ye) on lying down." [dɪgɪmɪla] [dɪgɪmala]
Be.lying.down=2PL.SUB ADV:thus!

Āa=ní *àlá bāańlím!* "Be (ye) quiet!" [a:nɪla] [a:nala]
COP=2PL.SUB ADV:thus quiet:ABSTR!

Bēi=ní *àlá ànínā!* "Be ye there!" [bɛ:nɪla] [bɛ:nala]
EXIST=2PL.SUB ADV:thus ADV:there!

Imperative mood is used in direct commands and prohibitions and in purpose clauses. Imperative mood follows another imperative in catenation.

Gòsimī=ø! "Look ye!"
Look:IMP=2PL.SUB!

Dā gōsē=ø! "Don't look!"
NEG.IMP look=NEG!

Kèl kà ò gōs! "Let her look!"
Cause:IMP and 3AN look!

Kèm nā n gōs! "Come and look!"
Come:IMP hither CAT look!

Dòllī=ní=m! "Follow ye me!"
Follow=2PL.SUB=1SG!

Mòr nīn-báalìg! "Have pity!"
Have eye-pity!

Irrealis mood expresses future statements and questions and has the preverbal mood markers *nà* (positive) *kù* (negative.) Tone Pattern A verbs show a tone perturbation to all-M tonemes 3.8.2. The irrealis distinguishes aspects by verb flexion like the indicative, but aspectual *nē*' cannot occur. Perfective aspect occurs much more often than imperfective. Irrealis mood with past tense markers is contrary-to-fact, not future-in-the-past: see 20.4 for its use in conditionals.

16.5 Polarity

VP negation markers combine this function with mood marking. They appear after tense markers but before preverbs. They induce the appearance of a clause final negative prosodic clitic 4.1. Aspectual *nē*' is incompatible with negative polarity.

Indicative mood is negated by *p̄* (for some speakers *b̄*, as in Toende Kusaal.) Imperative is negated by *dā*; conversely, forms which are negated by *dā* are imperative. Irrealis is negated by *kù*, which *replaces* the positive irrealis marker *nà*.

Ò zàb nâ'ab lā. "He's fought the chief."
3AN fight chief:SG ART.

Ò p̄ záb nâ'ab lāa=∅. "He hasn't fought the chief."
3AN NEG.IND fight chief:SG ART=NEG.

Zàm nâ'ab lā! "Fight the chief!"
Fight:IMP chief:SG ART!

Dā záb nâ'ab lāa=∅! "Don't fight the chief!"
NEG.IMP fight chief:SG ART=NEG!

Ò nà zāb nâ'ab lā. "He'll fight the chief."
3AN IRR fight chief:SG ART.

Ò kù zāb nâ'ab lāa=∅. "He won't fight the chief."
3AN NEG.IRR fight chief:SG ART=NEG.

Three **negative verbs** are equivalent to negative particle + verb. They do not carry the independency tone overlay 16.6.1. Negative clitics appear as usual.

Kā'ε "not be, not have" appears as *kā'* before a complement 4.3. It is the negative to both "be" verbs, *áεñ*^{ya} "be something/somewhat" and *bè* "be somewhere, exist" and also to *mōr*^a "have." **P̄ bε* is not found, but *p̄ mōr* is quite common; *p̄ áεñ* is rare but can be found in contrastive contexts.

Dāy lā kā' ná'abā=∅. "The man isn't a chief."
 Man:SG ART NEG.BE chief:SG=NEG.

Dāy lā kā' bīgā=∅. "The man hasn't got a child."
 Man:SG ART NEG.HAVE child:SG=NEG.

Pu'ā lā mór bīg, àmáa dāy lā kā'e=∅.
 Woman:SG ART have child:SG but man:SG ART NEG.HAVE=NEG.
 "The woman has a child but the man hasn't."

Dāy lā kā'e=∅. "The man isn't there."
 Man:SG ART NEG.BE=NEG.

Dāy kā'ẹ́ dógō=n lāa=∅. "There's no man in the room."
 Man:SG NEG.BE room:SG=LOC ART=NEG.

Dāy lā kā' dógō=n lāa=∅. "The man is not in the room."
 Man:SG ART NEG.BE room:SG=LOC ART=NEG.

Kā'ẹ́ has a clause-final variant *kà'asìgè* (always LF):

Ò bīg kà'asìgē=∅. "She has no child."
 3AN child NEG.EXIST=NEG.

Mìt "see that it doesn't happen that ..." [19.2](#) is always imperative. In this sense, the postposed 2pl subject ^{ya} does not occur, even in address to several people.

Mit ka ya maal ya tuumsuma nidib tuon ye ba gosi.

Mìt kà yà māl yà tūm-sùmà nīdīb tūen yé bà gōsē=∅.
 NEG.LET.IMP and 2PL do 2PL deed-good:PL person:PL before that 3PL look.at=NEG.
 "See that you don't do your good deeds in front of people so they'll look at you." (Mt 6:1, 1996)

KB uses *mid* with no clitic: *Mid ka ya maali ya tuum soma nidib tuon ye ba gos.*
Mìt appears with a NP object and no negative clitic in the sense "beware of ...":

Miti ziri nodi'esidib bane kene ya sa'an na la.

Mītī=∅ zīrí nò-dí'əsìdìb bání kēnní yà sā'an nā lā.
 Beware=2PL.SUB lie mouth-receiver:PL REL.PL come:IPFV 2PL among hither ART.
 "Beware of false prophets who come among you." (Mt 7:15, 1996)

Zi' "not know" normally replaces negative particle + *mī'*. A clause-final LF *zi'isige* also appears in KB, NT (e.g. Lk 12:40.)

B̀̀η-bāñ'ad zī' yē tēη tóllā=∅.

Donkey-rider:SG NEG.KNOW that ground:SG be.hot=NEG.

"He who rides a donkey does not know the ground is hot." (Proverb)

Mī' does occur with negative particles:

M biig Solomon anē dasaη , ka p̄v mi' w̄v̄v lín nar si'em.

M̄ b̄iig Solomon á nē dá-sāη, kà p̄v mī'

1SG child:SG Solomon FOC COP young.man:SG, and NEG.IND know

w̄v̄v lín nār s̄i'əmm=∅.

how 3IN:NZ be.proper INDF.ADV=NEG.

"My son Solomon is young, and does not know how things ought to be."

(1 Chronicles 22:5)

16.6 Independency marking

The VP of a main clause or content clause is marked as independent. The marking is absent in all subordinate clause types other than content clauses. It is also absent in all clauses introduced by *kà* other than content clauses, regardless of whether they are subordinate or coordinate. The markers are primarily tonal, but there are associated segmental manifestations.

16.6.1 Tonal

The **independency-marking tone overlay** is manifested only on VPs with positive polarity and indicative or imperative mood. It affects only the *first* word in the VP capable of carrying it: first the preverbal particle *lèε* "but", next any preverb, then the verb itself. Preverbal particles which have intrinsic M tonemes (past tense marker *dāa*, auxiliary tense marker *ñyēε*) not only remain M themselves but also prevent the overlay from applying to any subsequent words.

The overlay otherwise changes all tonemes in the affected word to L if they were not L already. Affected words, regardless of their intrinsic tones, are always followed by M spreading, and show M toneme on the final syllable before liaison (changed as usual to H before liaison words beginning with a fixed-L toneme [4.4](#).)

Examples of tone overlay manifesting independency marking in main clauses (with *zàb^ε* "fight", *gōs^ε* "look at", *nà'ab^a* "chief"):

| | |
|---------------------------|-------------------------------------|
| <i>Ò zàb nâ'ab lā.</i> | "He's fought the chief." |
| <i>Ò gòs nâ'ab lā.</i> | "He's looked at the chief." |
| <i>Ò sà zàb nâ'ab lā.</i> | "He fought the chief yesterday." |
| <i>Ò sà gòs nâ'ab lā.</i> | "He looked at the chief yesterday." |

In contrast, the intrinsic tones appear after *kà*, with preverbal particles having intrinsic M tonemes, with negative polarity, and in subordinate clauses:

| | |
|----------------------------|----------------------------------|
| <i>Kà ò záb nà'ab lā.</i> | "And he's fought the chief." |
| <i>Kà ò gòs nâ'ab lā.</i> | "And he's looked at the chief." |
| <i>Ò dāa záb nà'ab lā.</i> | "He didn't fight the chief." |
| <i>Ò dāa gòs nâ'ab lā.</i> | "He didn't look at the chief." |
| <i>Ò p̄ záb nà'ab lāa.</i> | "He hasn't fought the chief." |
| <i>Ò p̄ gòs nâ'ab lāa.</i> | "He hasn't looked at the chief." |
| <i>Ò yá' zàb nà'ab lā.</i> | "If he fights the chief." |
| <i>Ò yá' gòs nâ'ab lā.</i> | "If he looks at the chief." |
| <i>Ón zàb nà'ab lā.</i> | "He having fought the chief" |
| <i>Ón gòs nâ'ab lā.</i> | "He having looked at the chief." |

Content clauses have independency marking 22.2:

Bà yèl yé ò zàb nâ'ab lā.
 3PL say that 3AN fight chief:SG ART.
 "They say he's fought the chief."

Examples for the final M before liaison, using the verbs *bòdìg^ε* "lose", *yādìg^{ε/l}* "scatter" and the pronouns *m^a* "me" *ba* "them":

| | | | |
|------------------|-------------------------------|--------------------------------------|------------------------------|
| Intrinsic tones: | <i>bòdìgì=m^a</i> | <i>bòdìgìdī=m^{a/l}</i> ipfv | <i>bòdìgì=bā[/]</i> |
| | <i>yādìgì=m^a</i> | <i>yādìgìdī=m^{a/l}</i> ipfv | <i>yādìgì=bā[/]</i> |
| With overlay: | <i>bòdìgī=m^{a/l}</i> | <i>bòdìgìdī=m^{a/l}</i> | <i>bòdìgī=bá</i> |
| | <i>yādìgī=m^{a/l}</i> | <i>yādìgìdī=m^{a/l}</i> | <i>yàgìdī=bá</i> |

Before a liaison word with initial fixed-L toneme, M must change to H 4.4:

Bà kòvdī=bá. "They kill them."
 3PL kill:IPFV=3PL.

vs *Bà kòvdí̀ bà bōvs.* "They kill their goats."
 3PL kill:IPFV 3PL goat:PL.

Bà gòsō=∅. "They looked at her."
3PL look.at =3AN.

vs *Bà gòsú ̀ ò bīg.* "They looked at her child."
3PL look.at 3AN child:SG.

M spreading after bound personal pronoun subjects is affected by independency marking. Bound pronoun subjects are normally followed by M spreading despite their own fixed L tonemes: however, the *third* persons *ò li bà* are never followed by M spreading when the following VP has independency marking.

Thus, with no independency marking after coordinating *kà*:

Kà m záb nà'ab lā. "And I've fought the chief."
Kà ò záb nà'ab lā. "And he's fought the chief."

but *M záb nà'ab lā.* "I've fought the chief."
Ò zàb nà'ab lā. "He's fought the chief."

The first and second person pronouns *are* followed by M spreading unless the VP has independency marking *and* they are immediately preceded by *yē* "that" [22.2](#):

Ò tēñ'es kà ò zàb nà'ab lā. "He thinks he's fought the chief." WK
3AN think and 3AN fight chief:SG ART.

Ò tēñ'es kà m záb nà'ab lā. "He thinks I've fought the chief."
3AN think and 1SG fight chief:SG ART.

but *Ò yèl yé ò zàb nà'ab lā.* "He says he's fought the chief."
3AN say that 3AN fight chief:SG ART.

and *Ò yèl yé m zàb nà'ab lā.* "He says I've fought the chief."
3AN say that 1SG fight chief:SG ART.

Absence of M spreading after bound subject pronouns is independent of tone overlay and is still seen when tone overlay is absent, e.g. when the VP has irrealis mood, or there is a preverbal particle carrying a M toneme:

Ò kù zāb nà'ab lāa=∅. "He will not fight the chief."
3AN NEG.IRR fight chief:SG ART=NEG.

Ò lèɛ dāa zāb nà'ab lā. "But he did fight the chief."
 3AN but TNS fight chief:SG ART.

Ò yèl yé m nà zāb nā'ab lā. "He says I'll fight the chief."
 3AN say that 1SG IRR fight chief:SG ART.

16.6.2 Segmental

There are two segmental features of independency marking. They occur when and *only* when the verb word itself has undergone *tone* overlay. Verbs which have intrinsic L tonemes have unchanged stem tonemes after overlay, but these segmental features and the following M spreading reveal its presence.

The flexion -ma 7.1 marks imperatives of dual-aspect verbs whenever they carry the independency-marking tone overlay:

Gòsìm! "Look!"

Gòsìmī=ní=bā! "Look ye at them!"
 Look:IMP=2PL.SUB=3PL!

But *Dā gōsē=ø!* "Don't look!" (negative)
 NEG.IMP look=NEG!

Kèl kà ò gōs! "Let her look!"
 Cause:IMP and 3AN look!
 (No independency marking: subordinate)

Dòllī=ní=bā! "Follow ye !" (single-aspect verb)
 Follow=2PL.SUB=3PL!

The particle yā follows any perfective verb form carrying the tone overlay which would otherwise be phrase-final. Texts write *ya* solid with the verb; prior to 2016 it usually appears as *-eya* after consonants. *Yā* may be connected historically with the perfective flexion *-ra* of one conjugation of Nawdm verbs. Phrase constituents can only follow *yā* by right dislocation 24.4. Examples:

Ò zāb yā. "She's fought."
 3AN fight PFV.

Ò gòs yā. "She's looked."
 3AN look PFV.

Ò sà gòs yā.
3AN TNS look PFV.

"She looked (yesterday.)"

Sāa nị yā.
Rain:SG rain PFV.

"It has rained."

M̄ tēñ'ēs kà lị lụ yā.
1SG think and 3IN fall PFV.

"I think it's fallen down." (content clause)

But *Ò gòsī=m.*
3AN look.at=1SG.

"He's looked at me." (not final)

Sāa dāa nị.
Rain:SG TNS rain.

"It rained." (M preverbal particle)

Ò dāa gōs .
3AN TNS look.

"He looked." (M preverbal particle)

Ò nà gōs.
3AN IRR look.

"She'll look." (irrealis)

Kà ò gōs.
And 3AN look.

"And he looked." (no independency marking)

Ò p̄v gōsē=∅.
3AN NEG.IND look=NEG.

"He's not looked." (negative)

Ò gịm.

"She's short." (stative)

Ò mị'.

"She knows." (stative)

Ò nòη.

"She loves him." (stative)

Before interrogative prosodic clitics the toneme of *yā* becomes L, not H:

Lị bòdịg yā.
3IN get.lost PFV.

"It's got lost."

Lị bòdịg yàa=∅?
3IN get.lost PFV=PQ?

"Has it got lost?"

16.7 *Lèè* "but"

Lèè "but" precedes even tense particles, but like a preverb, and unlike a post-subject particle, it prevents the independency-marking tone overlay from falling on the verb, and is then itself followed by M spreading:

Kà ò léè dāa zāb nà'ab lā.

And 3AN but TNS fight chief:SG ART.

"But he fought the chief."

Bà lèè zāb nà'ab lā.

3PL but fight chief:SG ART.

"But they've fought the chief." WK

Kà bà léè zāb nà'ab lā.

And 3PL but fight chief:SG ART.

"But they've fought the chief." WK

Lèè zāb nà'ab lā!

But fight chief:SG ART!

"But fight the chief!" WK

Ka man pian'ad la lee ku gaade.

Kà mān pīāñ'ad lā léè kò gāadē=∅.

And 1SG.CNTR speech ART but NEG.IRR pass=NEG.

"But my words will not pass away. (Mt 24:35, 1996)

NT has the *ma*-imperative, suggesting tone overlay on the verb, in

Lee iemini o nā'am so'olim la...

Lèè ìəmī=ní_ ò nā'am sū'vlīm lā...

But seek:IMP=2PL.SUB 3AN kingship possession ART...

"But seek ye his kingdom ..." (Lk 12:31, 1976)

WK does not accept this; he corrected e.g. **Lèè gósìm nā'ab lā!* to

Lèè gōs nā'ab lā!

But look.at chief:SG ART.

"But look at the chief!"

16.8 Preverbs

Preverbs follow all other preverbal particles. All carry the independency-marking tone overlay in place of the following main verb (cf *lèɛ* "but" 16.7.)

Pòn "previously, already":

Ò pòn záb nà'ab lā. "He's already fought the chief."
3AN already fight chief:SG ART.

Kà ò pún zàb nà'ab lā.
And 3AN already fight chief:SG ART.
"And he's already fought the chief."

Lèm "again" (cf *lèb^ɛ* "return"):

Ì nīf lém zábìd nē. "My eye is hurting again."
1SG eye:SG again fight FOC.

Kà ò lém zàb nà'ab lā. "And he's fought the chief again."
And 3AN again fight chief:SG ART.

Ò p̄ lém zàb nà'ab lāa=∅.
3AN NEG.IND again fight chief:SG ART=NEG.
"He hasn't fought the chief again."

Ò nà lēm záb nà'ab lā. "He'll fight the chief again."
3AN IRR again fight chief:SG ART.

Ka so' kudin ku len nyee li ya'asa.
Kà s̄ k̄dīm kú lēm ñyées=lī yá'asā=∅.
And INDEFAN ever NEG.IRR again see=3IN again=NEG.
"Nobody will ever see it again." (Rev 18:21, 1996)

Kpèlìm is "still" before an ipfv, but "immediately afterwards" before a pfv. It occurs also as a main verb "remain, still be." KB has the reduced form *kpèn*.

Ka o kpelim zu'om. "Immediately he went blind."
Kà ò kpélìm zū'øm. (Acts 13:11, 1996: KB *Ka o kpèn zu'om.*)
And 3AN immediately go.blind.

m biig Josef nan kpɛn vɔe.

m̄ biig Josef nán kpɛ̀n v̄ɔe.

1SG child:SG Joseph still still be.alive.

"My child Joseph is still alive." (Genesis 45:28)

Là'am "together" (cf *là'as^ε* "gather"); as a main verb *là'am^m* is "associate with."

ka nidib wusa da la'am kpi ne o.

kà n̄id̄ib w̄sā dá là'am kp̄i né ò.

and person:PL all TNS together die with 3AN.

"so all people died together with him." (2 Cor 5:14)

Dèηim "beforehand" (cf *dèη^ε* "go, do first": *m̄ dèηī=f* "I've got there before you"; *dèη^ε* is used with the same meaning in *n*-catenation [19.1](#).)

Pin'ilvɔvɔn sa ka Pian'ad la da pɔn dɛηim bɛ.

Pīñ'ilúv̄=n sá kà Pjāñ'ad lā dá p̄ɔn dèηim b̄ɛ.

Beginning:SG=LOC hence and word:SG ART TNS already beforehand EXIST.

"In the beginning, the Word already existed beforehand." (Jn 1:1)

Màligim "again" (cf Toende Kusaal *maliḡ* "do again"):

Amaa man pian'ad la kv maligim gaadɛ.

Àmáa m̄an p̄jāñ'ad lā kú māl̄iḡim gáad̄ɛ=∅.

But 1SG.CNTR speech ART NEG.IRR again pass=NEG.

"But my words will not pass away. (Mt 24:35)

Tì "after" occurs often in *n*-catenation; for *hālì tì pāa ...* "up until" see [17.2.1](#). If the next VP is perfective, *tì* corresponds instead to English "before."

hali ka Herod ti kpi.

"Until Herod had died." (Mt 2:15)

hālì kà Herod tí kp̄i.

Until and Herod after die.

Kèm_∅ tí ñyē dú'atà.

"Go to see the doctor." SB

Go:IMP CAT after see doctor:SG.

Bɛogv ti nied la ka ba gaad!

B̄ɛogú=∅ tì n̄iəd lā kà bà ḡaad!

Morning=NZ after appear:IPFV ART and 3PL pass.

"Before morning appears they have passed!" (Isaiah 17:14)

16.9 Complements

"Complement" will be used below for all verb core arguments other than the subject. Complements may be NPs, AdvPs, prepositional phrases or clauses.

Verbs vary in the kind of complement they take and in whether the complements are obligatory; "obligatory" complements need not in fact be explicitly present, but when they are absent, the gap functions as an anaphoric pronoun.

NP and AdvP complements can be classified as direct and indirect objects, as predicative complements, or as locative complements.

16.9.1 Objects

Indirect objects precede direct, and objects precede other complements. A bound pronoun before a noun object therefore cannot be the direct object:

Ṁ dāa tísì=lī nâ'ab lā. "I gave the chief to it." *sic*
1SG TNS give=3IN chief:SG ART.

Transitive verbs vary in whether they require a direct object/complement. When obligatorily transitive verbs appear without any expressed object, the meaning is anaphoric. Among others, transitive single-aspect verbs which do not take locative complements are all of this kind.

Mid ka ya kv nid. "Do not kill [a person.]" (Exodus 20:13)
Mìt kà yà kō nīd.
NEG.LET and 2PL kill person:SG.

Mānī_ ∅ áñ d'atà kà fōn mén áḡñ.
1SG.CNTR CAT COP doctor:SG and 2SG.CNTR also COP.
"I'm a doctor and you are too."

For null anaphora for preposed objects see [24.3](#); in adnominal *kà*-catenation, see [19.2](#). In conversation, the antecedent may be in the previous speaker's words:

- Q. *Fḏ mór gbāyḡ lāa=∅?* "Do you have the letter?"
2SG have letter:SG ART=PQ?
- A. *Ēḡñ, ḡ mór.* "Yes, I have it."
Yes, 1SG have.
- Q. *Fḏ b'ódó=o=∅?* "Do you love her?"
2SG want=3AN=PQ?

- A. *Áyìtì, m̀ p̄v̀ b́óóḁā=∅.* "No, I don't love her."
 No, 1SG NEG.IND want=NEG.

Agentive ambitransitive verbs appear with and without objects, with no change in the role of the subject, and no anaphoric implication if the object is absent:

bane zuud nidibi gban'ad
b̀ànì z̄ūud n̄ìdìbì ∅ gbāñ'ad
 REL.PL steal:IPFV person:PL CAT seize:IPFV
 "those who steal people by force" (1 Tim 1:10)

one daa zuud "he who used to steal" (Eph 4:28)
ònì d̄āa z̄ūud
 REL.AN TNS steal:IPFV

Patientive ambitransitive verbs can appear transitively with an expressed object, but if there is no object they are normally interpreted as intransitive, with the object of the transitive appearing as the subject. Many express a change of state. Examples include *yò* "close", *nāe'* "finish", *zàmìs^ε* "learn/teach", *nāmīs^{ε/}* "suffer/make suffer", *b̀òd̀ìg^ε* "lose, get lost", *b̀às^ε* "go/send away", *d̄ūe'* "raise/rise", *m̄ā'e'* "get cool."

M̀ náa t̄v̄mā lā. "I've finished the work."
 1SG finish work ART.

T̄v̄mā lā náa nē. "The work is finished."
 Work ART finish FOC.

Direct objects of most other dynamic verbs can also be transferred to subject position, resulting in a passive sense. (For passive meaning expressed by an empty *b̀à* "they" as subject see [12.4.1](#).) An agent cannot also be expressed.

M̀ nú d̄āam lā. "I've drunk the beer."
 1SG drink beer ART.

D̄āam lā nú yā. "The beer has got drunk."
 Beer ART drink PFV.

Gb̀àṽṽ lā sób nē. "The letter is written."
 Letter:SG ART write FOC.

Gbà̀nà sòbìd zīnà. "Letters get written today." WK
Letter:PL write:IPFV today.

Gbà̀yē lā sòbìd sùjā. "The letter is writing well (i.e. easily.)" WK
Letter:SG ART write:IPFV good:ADV.

The assume-stance verbs 9.1.1 are used transitively for parts of one's own body more often than the make-assume-stance series:

Lìgíním fù nīf né fù nù'ug.
Cover:IMP 2SG eye:SG with 2SG hand:SG.
"Cover your eye with your hand."

Dìgíním fù nù'ug. "Put your hand down."
Lie.down:IMP 2SG hand:SG.

Similarly *n̄e* "appear" is usually intransitive, corresponding to transitive *n̄el^E* "reveal", but *n̄e* is much more frequent than *n̄el^E* before *ò mēŋ^{a/}* "him/herself" etc.

Ka o nie o mēŋ Jemes san'an ...
Kà ò n̄e ò mēŋ Jemes sâ'an ...
And 3AN appear 3AN self James among ...
And he revealed himself to James (1 Cor 15:7)

Some verbs only take direct objects of a very limited type, often expressed with a noun formed from the same stem:

Fù túm bó-tòvmà=ø? "What work do you do?"
2SG work:IPFV what-work=CQ?

Ka ya ninkvda zaansim zaansima.
Kà yà n̄n-kúdà zàañsìm záañsímà.
And 2PL person-old:PL dream:IPFV dream:PL.
"And your old people dream dreams." (Acts 2:17)

Almost any verb can take an indirect object expressing benefit, interest etc:

Ò d̀v̀g̀v̀=̄m. "He cooked (for) me."
3AN cook=1SG.

Lì màlīsī=m. "I like it." ("It's sweet for me.")
3IN be.sweet=1SG.

Áláafù bée=bá. "They are well." ("Health exists for them.")
Health EXIST=3PL.

Some verbs *require* an indirect object, which cannot be ellipted unless any direct object is too, with a necessarily anaphoric sense; *tìs*^ε "give" is the prototypical example, along with causatives like *dìs*^ε "feed", *nūlōs*^{ε/} "give to drink."

Ṁ tís nâ'ab lā dāká. "I've given the chief a box."
1SG give chief:SG ART box:SG.

Ṁ tís nâ'ab lā. "I've given it to the chief."
1SG give chief:SG ART.

Ṁ tísō=∅ dāká. "I've given him a box." Not **Ṁ tís dāká.*
1SG give=3AN box:SG.

Dā tísō=∅ sī'elā=∅. "Don't give her anything!"
NEG.IMP give=3AN INDF.IN=NEG.

Dā tísē=∅! "Don't give it to her!"
NEG.IMP give=NEG.

Ṁ tís yā. "I've given it to him."
1SG give PFV.

Certain verbs take a fixed direct object as a set idiom after an indirect object which expresses the functional object, e.g. *kàd* X *sàríyà* "judge X", *mōr* X *nīn-báalìg* or *zò* X *nīn-báalìg* "have pity on X", *nīṅ* X *yàddā* "believe X, believe in X", *zò* X *dàbīəm* "fear X", *sīàk* X *nōr* "obey X", *ñwè'* X *nū'ug* "make an agreement with X."

Bà zòtō=∅ dábīəm. "They are afraid of him."
3PL feel:IPFV=3AN fear.

Wina'am na kad nidib poten'esua'ada saria.
Wínà'am ná kād nīdīb pú-tèñ'-sū'adá sàríyà.
God IRR drive person:PL mind-secret:PL judgment.
"God will judge people's secret thoughts." (Rom 2:16, 1996)

Bà nìḡō=∅ yáddā. "They believed her."
3PL do=3AN assent.

Ò ñwè' nâ'ab lā nû'ug. "He made an agreement with the king."
3AN strike king:SG ART hand:SG.

It is not possible to transfer indirect objects to the subject position:

Nâ'ab lā tís yā. *only* "The chief was given [to someone.]"
Chief:SG ART give PFV.

16.9.2 Predicatives

Predicative complements are resultative or depictive:

Kel ka m liebi fɔ tɔmtɔm yinne.
Kèl kà m líḡbì fò tòm-tòm yīnní.
Cause:IMP and 1SG become 2SG worker:SG one.
"Make me one of your servants" (Lk 15:19)

M á né fò tòm-tòm. "I am your servant."
1SG COP FOC 2SG worker:SG.

For *kà*-catenations as resultative predicates see [19.2](#).

Adjectives may appear as NP heads in predicative complements:

Lì à nē pìḡlḡg. "It's white, a white one."
Lì à nē pìḡlḡg fáss. "It's very white."
Bà à nē pìḡlḡ. "They're white."

Mam ane pielug amaa m ya'a paae bugumin asεε ka m lεb zin'a.
Mām á nē pìḡlḡg àmáa m yá' pāe búgúmī=n, àsέε kà m lεb zīñ'a.
1SG COP FOC white:SG but 1SG if reach fire=LOC, except and 1SG turn red:SG.
"I am white, but when I reach the fire I turn red." [a crayfish] (BNY p16)

si'el zie sabili wuu nidne.
sī'əl zī'e sābílì ∅ wōv nīd nē.
INDEF.IN stand black:SG CAT like person:SG like.
"something stood, black like a person." KSS p16

Only adjectives without corresponding stative verbs permit this. More often, compounds with *n̄n-* "person" or *b̄n-* "thing" + adjective are used instead. This is required for *all* adjectives before dependent pronouns:

Lì à nē b̄n-p̄l-kàṅā. "It is this white one."

Some transitive verbs may have a predicative complement after the direct object. With verbs are used in the relevant senses, this complement is compulsory.

The verb *p̄d^ε* "name, dub" takes a NP object with the head *ȳ'vr^{ε/}* "name", and the name itself as predicative complement optionally introduced by *yē* "that."

Ka f̄v na p̄vd o yv'vr ye Yesu.

Kà f̄v ná p̄vd ò ȳ'vr yē Yesu.

And 2SG IRR dub 3AN name:SG that Jesus.

"And you will call him Jesus." (Mt 1:21)

Ka o p̄vd biig la yv'vr Yesu.

Kà ò p̄vd biig lā ȳ'vr Yesu.

And 3AN dub child:SG ART name:SG Jesus.

"And he called the child Jesus." (Mt 1:25)

B̄uēl^ε "call, call out, summon" can be used in the ipfv with an object expressing the person and the name as a complement optionally introduced by *yē*, or with *ȳ'vr^{ε/}* "name" as the subject:

on ka ba buon ye Pita la

òn kà bà b̄uēn yē Pita lā

REL.AN and 3PL call:IPFV that Peter ART

"who was called Peter" (Mt 10:2)

dau s̄w' ka o yv'vr buon Joon.

d̄au-s̄w' kà ò ȳ'vr b̄uēn Joon.

man-INDFAN and 3AN name:SG call:IPFV John.

"a man [habitually] called John." (Jn 1:6)

M̄aal^ε "make" is used with object and resultative predicative complement in

Ka o maal o meṅ nintita'ar.

Kà ò m̄aal ò mēṅ n̄n-titā'ar.

And 3AN make 3AN self person-great:SG.

"He made himself out to be a great man." (Acts 8:9. 1976)

16.9.3 Locatives

Locative AdvPs occur as complements after verbs of position and movement.

Ò kèṅ Bók. "She's gone to Bawku."
3AN go Bawku.

Ò p̄ tūñ'ə_ø kēnná=ø.
3AN NEG.IND be.able CAT go:IPFV=NEG.
"She can't walk."

Dìgìnìṁ kpē! "Lie down here!"
Lie.down:IMP here!

Ò dīgìn yā. "He's lain down."
3AN lie.down PFV.

Ò dīgìl gbáyṅ lā téebùl lā zúg.
3AN lay.down book:SG ART table:SG ART upon.
"She's put the book on the table."

Ò dīgìl gbáyṅ lā. "She's put the book down."
3AN lay.down book:SG ART.

Dāy lā bé nē d́-kàṅā lā púvḡ=n.
Man:SG ART EXIST FOC hut-DEMST.SG ART inside:SG=LOC.
"The man is inside that hut."

Àláfù b́eo=ø. "He's well." ("Health exists for him.")
Health EXIST=3AN. Indirect object, no complement.

16.9.4 Prepositional phrases

Wēn^{na/} "resemble" usually takes a phrase introduced by *nē* or *wōv* 15.

Ka o nindaa wenne nintaṅ ne.
Kà ò nīn-d́aa wēn nē nīntāṅ nē.
And 3AN eye-face:SG resemble with sun:SG like.
"His face is like the sun." (Rev 10:1, 1996)

Lāi^{la/} "be far" usually takes a phrase introduced by *nē*:

Amaa o pu lal ne tii.

Àmáa ò p̄v lāl né t̄i=∅.

But 3SG NEG.IND be.far with 1PL=NEG.

"But he is not far from us." (Acts 17:27)

Dōl^{la/} "accompany" with the preposition *nē* means "be in accordance with":

Li dōlne lin sōb Wina'am gbauḡvn si'em la ye ...

Lì dōl nē lín sōb Wínà'am gbáḡḡv̄=n s̄i'əm lā yē ...

3IN follow with 3IN:NZ write God book:SG=LOC INDF.ADV ART that ...

"This is in accordance with what is written in God's book ..." (1 Cor 2:16)

The preposition *nē* can be distinguished from focus-*nē*[/] 24.1.2 by contexts where focus is prohibited. *Yī* "emerge" does not take a prepositional phrase:

M̄ yī nē Bók.

"I come from Bawku." SB

1SG emerge FOC Bawku.

but *Meeri one yi Magdala*

"Mary who came from Magdala"

Meeri ónì yī Magdala

(Mk 16:9, 1996)

Mary REL.AN emerge Magdala

16.9.5 Clauses

Kē "let" and *m̄it* in the sense "let not" always take a *kà*-catenation. *Nār*^{a/} "be obliged to" and *bòòd*^a in the sense "want to" take purpose clauses, and the meaning is anaphoric if it is absent. *Gūr*^{a/} in the sense "wait for (an event)" takes a NP headed by a gerund or a purpose-clause. *Àḡñ*^{ya} "be something/somehow", uniquely flexible in its variety of argument types, may also take a content-clause complement.

Verbs of cognition, reporting, and perception have as complement a content clause, a relative clause with *s̄i'əm*, or a postpositional AdvP with *yēlá* "about." Most such verbs have an anaphoric sense without such an object.

16.10 Adjuncts

Adjuncts, typically AdvPs, occur as the last element in the VP. Several VP adjuncts may occur together. Clause-final adjuncts are always taken as VP adjuncts in this grammar; clause-level adjuncts precede the subject 17.2.1.

Bà d̄it nē s̄ā'ab d̄ó-kàḡā lā p̄vḡḡv̄=n.

3PL eat:IPFV FOC porridge hut-DEMST.SG ART inside:SG=LOC.

"They're eating porridge in that hut."

16.11 Verb-phrase-final particles

For the independent-perfective marker *yā* see 16.6.2.

The particles *nā* 'hither' and *sà* 'hence; ago' follow any complements. The verb *kēñ* 'come' is invariably used with *nā*; the imperative SF *kèm*, which coincides for *kēñ* 'come' and *kēñ^ε* 'go', is always disambiguated by the fact that it is followed by *nā* or *sà* respectively: *kèm nā*! 'come' *kèm sá*! 'go!'

M mór kú'əm ná=ø? "Shall I bring water?" SB
1SG have water hither=PQ?

Bùgúm lā yít yáa ní ná=ø?
Fire ART emerge:IPFV where LOC hither=CQ?
"Where is the light coming from?" SB

Fù yí yáa ní ná=ø?
2SG emerge where LOC hither=CQ?
"Where have you come from?" WK

Sà is often used temporally, for "since" or "ago":

Fu na baŋ li nya'aŋ sa. "You will come to understand afterwards."
Fù ná báŋ lì ñyá'aŋ sá. (Jn 13:7, 1976)
2SG IRR realise 3IN behind since.

Lazarus pvn be yavgvn la daba anaasi sa.
Lazarus pón bè yávgv̄=n lā dābá_ànāasí sà.
Lazarus previously EXIST grave:SG=LOC ART day:PL NUM:four since.
"Lazarus had already been in the grave four days." (Jn 11:17)

The particles are VP-final, not clause-final:

Kèm nā n gōs. "Come and look!" SB
Come:IMP hither CAT look.

Nā and *sà* often follow any article *lā* ending an *ñ*-clause containing them; closely parallel constructions may show either *nā lā* or *lā nā*:

ñwādīg-kánì kēn nā lā
month REL.SG come:IPFV hither ART
"next month" SB

*dunia kanε ken **la na***

dūniyá-kànì kēn lā nā

world-REL.SG come:IPFV ART hither

"the world which is coming" (Lk 20:35)

*ti tum onε tum man **na la** tumma.*

tì tùm ònì tòm mān nā lā túmà

1PL work REL.AN send 1SG.CNTR hither ART work

"Let us do the work of him who sent me." (Jn 9:4)

*M diib anε ye m tum onε tumi m **la na** bɔɔdim naae.*

Ḿ dīb á nē yé òn tùm ònì tòmì=m lā nā bɔɔdìm_∅ nāe.

1SG food COP FOC that 1SG work REL.AN send=1SG ART hither will CAT finish.

My food is that I do the will of him who sent me completely. (Jn 4:34)

VP-final particles can also follow the *gerund* of a verb which is associated with such a particle, and again may follow the associated article:

Ninsaal Biig la lεbυg la na

Nīn-sāal Bīg lā lébùg lā nā

Human:SG child:SG ART return:GER ART hither

"the return of the Son of Man" (Mt 24:27)

16.12 "Be" verbs

Existence is expressed with the verb *bé*; with a focussed or foregrounded locative, it expresses **location**.

Wínà'am bé.

God EXIST.

"God exists." (Calque of the West African Pidgin

God dey, implying "It'll all work out.")

Àláafvò béo=∅.

Health EXIST=3AN.

"She's well." ("Health exists for her.")

Wāad bé.

Cold.weather EXIST.

"It's cold."

Mam bene moogin.

Mām bé nē mōɔgō=n.

1SG.CNTR EXIST FOC grass:SG=LOC.

"I'm in the bush." BNY p8

Moogin ka mam be. "I'm in the bush." BNY p10

Mōogú=n kà mām bé.

Grass:SG=LOC and 1SG.CNTR EXIST.

Dāy lā bé nē dó-kàṅā lā púvgū=n.

Man:SG ART EXIST FOC hut-DEMST.SG ART inside:SG=LOC.

"The man is inside that hut." (Reply to "Where is that man?")

Dày-sō' bé dó-kàṅā lā púvgū=n.

Man-INDFAN EXIST hut-DEMST.SG ART inside:SG=LOC.

"There's a certain man in that hut."

For the corresponding negative *kā'e* see 16.5; **pū bé* is not used.

Bè plays a role analogous to a "passive" to *mōr*^a "have" in constructions like:

M̄ bīg bé.

"I have a child." Equivalent to *M̄ mór bīg*.

1SG child:SG EXIST.

M̄ bīg kā'e=∅.

"I have no child." Equivalent to *M̄ kā' bīgā*.

1SG child:SG NEG.BE=NEG.

Bè can be used in direct commands:

Béε àṅīnā.

"Be (i.e. stay) there!" SB

EXIST ADV:there.

The **copula** is the verb *àṅñ*^{ya}. On the loss of *ε* and nasalisation see 4.3.

Mānī ∅ áñ d'atà kà fōn mén áṅñ.

1SG.CNTR CAT COP doctor:SG and 2SG.CNTR also COP.

"I'm a doctor and you are too."

Ò à nē bīg.

"She is a child."

3AN COP FOC child:SG.

The usual negative is *kā'e*, but *pū áṅñ* does occur, e.g. in expressing contrasts:

M̄ kā' d'atāa=∅.

"I'm not a doctor."

1SG NEG.BE doctor:SG=NEG.

Mānī ∅ *áñ d'atà àmáa fōn pō áñyā=∅.*
 1SG.CNTR CAT COP doctor:SG but 2SG.CNTR NEG.IND COP=NEG.
 "I'm a doctor but you aren't."

Àḡñ^{ya} can be used in direct commands:

Āa=ní ∅ *àlá bāañlím!* "Be (ye) quiet!"
 COP=2PL.SUB ADV:thus quiet:ABSTR!

The sense may be ascriptive or specifying (cf CGEL p266.) If it is **ascriptive**, the complement is non-referring, and normally focussed with *nē* if permitted 24.1.2:

Ò à nē bīg. "She is a child."
 3AN COP FOC child:SG.

In **specifying** constructions the subject usually has *n*-focus 24.1.1:

Manε an kōnbkem svη la.
Mānī ∅ *áñ kóñb-kìm-sòη lā.*
 1SG.CNTR CAT COP animal-tender-good:SG ART.
 "I am the good shepherd." (Jn 10:11)

Nōbibisi a mam disuη.
Nō-bībīsì ∅ *áñ mām dí-sòη.*
 Hen-small:PL CAT COP 1SG.CNTR food-good:SG.
 "Chicks are my favourite food." BNY p13

When the complement of *àḡñ^{ya}* is definite, the construction is usually specifying, with the subject in focus (although definite complements may be focussed due to their internal structure 24.1.2):

Ì á nē d'atà. "I'm a doctor." ("What do you do?")
 1SG COP FOC doctor:SG. Ascriptive.

but *Mānī* ∅ *áñ d'atà lā.* "I'm the doctor." ("Which one is the doctor?")
 1SG.CNTR CAT COP doctor:SG ART. Specifying.

Àḡñ^{ya} allows a wide range of different types of NP as arguments. It can take an AdvP of any type as subject 13.1:

Yiη venl, ka poogin ka'a su'um.

Yiη véñl kà pōvgō=n kā' súmm=∅.

Outside be.beautiful and inside:SG=LOC NEG.BE good:ABSTR=NEG.

"Outside is beautiful but inside [place] is not good." (Acts 23:3, 1996)

Zīná à nē dá'a.

"Today [time] is market."

Today COP FOC market:SG.

Man noηi ya si'em la ane bedego.

Mán nòηī=yá sī'əm lā á nē bédvgō.

1SG:NZ love=2PL INDF.ADV ART COP FOC much.

"How much I love you [manner], is a lot." (2 Cor 7:3, 1976)

Àgñ^{ya} takes a predicative complement. Some adjectives can appear as NP heads as predicative complements after *àgñ^{ya}* and other verbs [16.9.2](#), but typically *àgñ^{ya}* has a derived manner-adverb or abstract noun as complement instead. In any case, such constructions are ascriptive, and use *nē*' where syntactically permissible:

Mam anε sabilig, la'am nε wala m venl hali.

Mām á nē sābilíg, là'am nē wālá m venl hālí.

1SG COP FOC black:SG, together with how 1SG be.beautiful so.far.

"I am dark, although I am very beautiful." (Song of Songs 1:5)

Lì à nē ná'anā.

"It's easy."

3IN COP FOC easily.

Lì à nē bōgvsígā.

"It's soft."

3IN COP FOC soft:ADV.

Lì à nē zāalím.

"It's empty."

3IN COP FOC empty:ABSTR.

Lì àñ súḡā.

"It's good." [24.1.2](#)

3IN COP good:ADV.

Absolute clauses and even content clauses may be complements of *àgñ^{ya}*:

M diib anε ye m tvm onε tvmi m la na bōodim naae.

M̄ dīib á nē yé m̄ tvm ònì tvmì=m lā nā bōodim_∅ nāe.

1SG food COP FOC that 1SG work REL.AN send=1SG ART hither will CAT finish.

"My food is that I do the will of him who sent me completely." (Jn 4:34)

17 Clauses

Typical clauses consist of a subject NP followed by a VP. Clause-linker particles and clause adjuncts may precede the subject position; post-subject particles may intervene between NP and VP.

17.1 Clause types

Criteria for describing a clause as main or subordinate do not always neatly align. Independency marking of VPs 16.6 in principle marks a clause as non-subordinate, but main clauses are downranked to subordinate content clauses without internal alteration, and **main clauses preceded by coordinating *kà* "and" lack independency marking.** *Kà* was perhaps once always subordinating; its coordinating role is characteristic especially of narrative, and cross-linguistically, non-initial narrative clauses are often formally subordinate. There are three types of clause subordination: nominalisation, catenation, and complementisation.

| | independency-marked | not independency-marked |
|--------------------------|------------------------|--|
| main <u>18</u> | main without <i>kà</i> | main with initial <i>kà</i> |
| complementised <u>22</u> | <i>yē/kà</i> content | <i>yē/kà</i> purpose |
| catenated <u>19</u> | | <i>n/kà</i> catenation |
| nominalised | | <i>ñ</i> absolute/relative <u>21</u> <i>yà'</i> conditional <u>20</u> |

Main and content clauses can be statements, questions or commands. Only main and content clauses may lack VPs.

Complementised clauses are introduced by *yē* "that", less often *kà*. Purpose clauses lack independency marking, have VPs with imperative mood, and show tense marking only if the main clause is ellipted; content clauses are downranked main clauses, with independency marking and the full range of main clause structures:

M̄ p̄w̄ b̄ôɔd̄ yé f̄v̄ kēŋ Bók̄ō=∅.

1SG NEG.IND want that 2SG go Bawku=NEG.

"I don't want you to go to Bawku."

Ka o ba' ne o ma pv baŋ ye o kpelim yaa.

Kà ò bā' né ò mà p̄w̄ báŋ yé ò kpèlìm yāa=∅.

and 3AN father:SG with 3AN mother:SG NEG.IND realise that 3AN remain PFV=NEG.

"His father and mother did not realise that he had remained." (Lk 2:43)

Catenated clauses introduced by *n* lack their own subjects and resemble serial verb constructions in many ways; those introduced by *kà* have their own subjects. Catenated clauses lack independency and tense marking. They are part of their main clauses for focus purposes, and the main clause is often semantically subordinate.

Clauses marked by the post-subject particles *ñ* and *yà'* are nominalised. They have independent tense-marking. They are coordinated with *nē*, not *kà*:

... *pa'ali ba* [*on daa nye Zugsəb la suorin, ka o pian' tis o si'em*],
nē [*Saul n mōol Yesu yela nē sɔnkpɪ'euj Damaskus teɟin si'em.*]
 ... *pá'alì=bā ón dāa ñyē Zūg-sób lā sūerí=n, kà ò pǐāñ' ∅*
 ... teach=3PL 3AN:NZ TNS see Lord ART road:SG=LOC and 3AN speak CAT
tísò=∅ sǐ'əm, nē Saul=n mōol Yesu yélà nē sūñ-kpǐ'oj
 give=3AN INDF.ADV with Saul=NZ proclaim Jesus about with heart-strength
Damaskus tégī=n sǐ'əm.

Damascus land:SG=LOC INDF.ADV

"informing them how he had seen the Lord on the road and He had spoken to him, and how Saul had preached boldly about Jesus in Damascus." (Acts 9:27)

A clause must be subordinate if it precedes clause-final elements belonging to the preceding clause, such as negative prosodic clitics:

ka pɔ nar ka ba buolim ye Tumtumma.
kà pɔ nár kà bà búəlì=m yē Túm-tūmmā=∅.
 and NEG.IND must and 3PL call=1SG that worker:SG=NEG.
 "and I ought not to be called an apostle" (1 Cor 15:9)

Structures can be obscured by dislocation 24.4.

Any subordinate clause type can be embedded, potentially recursively, in any other, but catenated clauses cannot follow complementised clauses at the same level.

A catenated clause embedded in a content clause in a purpose clause:

M pɔ bɔɔd [ye fɔ ti yel bɛog daar [ye fɔnɛ kɛ [ka mam Abram lieb bummɔra.]]]
M̄ pɔ bɔɔd yé fɔ tí yèl bɛog dāar yē
 1SG NEG.IND want that 2SG after say tomorrow day.after.tomorrow that
fɔnī ∅ ké kà mām Abram lǐəb bɔn-mórā=∅.
 2SG.CNTR CAT cause and 1SG Abram become thing-haver:SG=NEG.

"I do not want you afterwards some day saying that it was you who made me, Abram, rich." (Gen 14:23)

A content clause within an absolute nominalised clause:

[*ban mi'* [*ye biig la kpine la*]] *zug*
bán mī' yē bīig lā kpí nē lā zúg
 3PL:NZ know that child:SG ART die FOC ART upon
 "because they knew that the child was dead" (Lk 8:53)

17.2 Structure

Except in special circumstances, clauses require a subject NP, which is followed by a VP, with any post-subject particles intervening. Kusaal is SVO [16.9](#); deviations occur only by preposing or dislocation.

The **clause-linker particles** *kà* "and" and *yē* "that" precede the subject (which may be ellipped after *kà*.) *Yē* is invariably subordinating, but *kà* may be coordinating or subordinating: it appears in a great variety of constructions and meanings. Clause-level adjuncts may precede, follow, or occupy the clause-linker position.

Emphatics [24.7](#) are clause-level particles associated with top-level NPs/AdvPs.

Main and content clauses have similar structures. Both display independency marking on the first VP, unless preceded by coordinating *kà* [16.6](#), and have structural possibilities not permitted to other clauses, including lacking VPs altogether.

17.2.1 Clause adjuncts

Clause-level adjuncts precede the subject position. They fall into three groups: prelinker adjuncts, linker adjuncts and postlinker adjuncts, which respectively precede, occupy, or follow the clause linker position. English conjunctions largely correspond to clause linkers, prelinker adjuncts and linker adjuncts.

Linker adjuncts do not occur along with linker particles at all. They include

| | | | |
|-----------------|-------------|-----------------|-------------|
| <i>kōv</i> | "or" | <i>bēε</i> | "or" |
| <i>dìn zúgō</i> | "therefore" | <i>lìn zúgō</i> | "therefore" |
| <i>àlá zùgō</i> | "thus" | <i>bō zúgō</i> | "because" |

Ya pvn mi' nε'εηa, bɔzugɔ li daa maalne ya san'an.

Yà pún mī' nē'ηá, bō zúgō lì dāa mâal né yà sã'an.

2PL already know DEMST.IN, because 3IN TNS make FOC 2PL among.

"You already know this, because it was done in your presence." (Acts 2:22)

Bō zúgō may also appear after an absolute clause, like *zūg^o* alone.

Prelinker adjuncts precede any linkers. *Hālí àséε* are also prepositions [15](#).

| | | | |
|-------------|----------|----------------|---------|
| <i>àmáa</i> | "but" | <i>hālí</i> | "until" |
| <i>àséε</i> | "unless" | <i>àlá zùg</i> | "thus" |

KB has no examples of *kà àmáa* to 365 of *ámáa kà*, one of *kà àséé* to 247 of *àséé kà* and 436 examples of *hālí kà* but none of *kà hālí* as a clause adjunct. Prelinker adjuncts also precede *yē*, both as linker and "resumptive" *yē* 22.2.1. Thus

Ka sieba la' o. Amaa ka sieba yel ye ...

Kà s̄əbā lá'o=∅. Àmáa kà s̄əbā yél yē ...

And INDEF.PL laugh=3AN. But and INDEF.PL say that...

"Some laughed at him, but others said..." (Acts 17:32)

Wina'am daa pu gaŋi ti ye ti tum dian'ad tɔvma, amaa ye ti be nyain.

Wínà'am dāa pū gāŋí=tī yé tì tùm dīā'ad tóvmà=∅,

God TNS NEG.IND choose=1PL that 1PL work dirt work=NEG,

ámáa yé tì bé ñyāe.

but that 1PL EXIST brightly.

"God did not choose us so that we would do the work of impurity, but so that we would be in cleanliness." (1 Thess 4:7)

Postlinker adjuncts follow any clause-linker particle or other clause adjunct but precede all other clause constituents, including preposed elements:

Amaa on sadigim kpi la, bo ka m lem lood noor ya'ase?

Àmáa ón sādígím kpí lā, bó kà m̀ lém lōod nōor yá'asè=∅=∅?

But 3AN:NZ since die ART, what and 1SG again tie:IPFV mouth:SG again=NEG=CQ?

"But since he has died, why should I still be fasting?" (2 Samuel 12:23)

Some constituents occur *exclusively* as postlinker adjuncts: *yà'*-clauses "if/when ..." 20.1, *sādígím*-clauses 21.1, *bēogó* "tomorrow" and *dāa-sí'érē* "perhaps." *Yà'*-clauses and *sādígím*-clauses can only appear after main clauses by dislocation.

In addition, AdvPs referring to time, circumstance or reason may be either be used as postlinker adjuncts or as VP adjuncts. All VP adjunct AdvPs, including those referring to place or manner as well, may be placed before the clause subject by preposing with *kà* 24.3. This means that AdvPs referring to time, circumstance or reason can potentially occur before the subject alone, preceded by *kà*, followed by *kà*, or both preceded and followed by *kà*, whereas other types of AdvP *must* be followed by *kà* when they appear before the subject. Thus

Nānná-ná m̀ á nē nâ'ab. "Now I am a chief."

Now-hither 1SG COP FOC chief:SG.

is grammatical, but **M̄ɔɔgú=n mā́m bé* was corrected by WK to

Mōogú=n kà mām bé. "I'm in the bush."

Grass:SG=LOC and 1SG.CNTR EXIST.

Any AdvPs or clauses expressing time, circumstances, or reason may appear as postlinker adjuncts, including absolute clauses, *dìn zúg* "therefore" *lìn zúg* "therefore", *lì ñyá'aŋ* "afterwards", *lín à sī'əm lā* "as things stand", *àsīdā* "truly."

In KB *nannanna nānná-nā'* "now" appears without preceding or following *kà* much more often than not (394/437 cases) and is thus usually a clause adjunct. WK requires *kà* after *kà nānná-nā'*, showing that that for him *nānná-nā'* is a *prelinker* adjunct but can be a preposed VP adjunct; this rule is not followed in KB.

Kà nānná-ná kà m àñ nā'ab. "And now I am a chief."

And now-hither and 1SG COP chief:SG. Rejected by WK without the second *kà*

Dìn zúg and *lìn zúg* "therefore" without final *-ɔ* appear very often before *kà* (177/371 cases), i.e. as preposed VP adjuncts. Constructions without *kà* probably arose by original VP-only *dìn zúg* and *lìn zúg* encroaching on the function of the corresponding linker adjuncts *dìn zúgō* and *lìn zúgō*.

Bō zúg without *-ɔ* appears in KB only as preposed *bō zúg kà ...?* "why ...?"

Bōzug ka li aan ala? "Why is it so?" (Haggai 1:9)

Bō zúg kà lī áañ àlá=ø?

What on and 3IN COP thus=CQ?

Hālī can be a prelinker adjunct before a *n*-catenated clause:

Ti nwa'ae li hali paae Nofa.

Tì ñwá'a=lī hālī_ø pāe Nofa.

1PL strike=3IN until CAT reach Nophah.

"We struck them as far as Nophah." (Numbers 21:30)

Clause adjuncts are otherwise found only in main and content clauses. The position of the negative clitic shows that the *kà*-clauses are not subordinate in e.g.

O p̄v yēd fuugɔ, hali ka li yuug.

Ò p̄v yēd fūugó=ø, hālī kà lī yūug.

3AN NEG.IND wear:IPFV shirt:SG=NEG, even and 3IN take.long.

"He had not worn clothes for a long time." (Lk 8:27)

*M kv basif ka fɔ **keŋɛ** aseɛ ka fɔ niŋi m zug bareka.*

M̄ kú bāsí=f kà fò kēŋɛ=∅ àséɛ kà fò níŋì_̀m̄ zūg bárkà.

1SG NEG.IRR leave=2SG and 2SG go=NEG unless and 2SG do 1SG head:SG blessing.

"I will not let you go unless you bless me." (Genesis 32:26)

W̄v "like" 15 appears as a linker adjunct before content clauses:

*ka tuumbe'ed **ku** len so'e ti wuu ti aa li **yamugo**.*

kà tùm-bē'ed kú lēm s'v=tī w̄v tì áañ_̀lì yàmmògō=∅.

and work-bad:PL NEG.IRR again own=1PL like 1PL COP 3IN slave:SG=NEG.

"and that sin will not again own us as if we were its slave." (Rom 6:6, 1996)

*M pian'adi tisidi ya wv ya **anɛ** m biis nɛ.*

M̄ piáñ'adī_̀∅ tísídī=yá w̄v yà á né m̄ bīs nē.

1SG speak:IPFV CAT give:IPFV=2PL like 2PL COP FOC 1SG child:PL like.

"I talk to you as if you were my children." (2 Cor 6:13)

17.2.2 Subjects

Kusaal is not a pro-drop language. A dummy subject pronoun *lì* (never *ò*) is required in impersonal constructions:

Lì t̀l.

3IN be.hot.

"It [weather] is hot."

Lì àñ s̀jā.

3IN COP good:ADV.

"It's good."

Contrast Mooré *yaa s̄ōama*, with no pronoun.

Lì nàr kà f̀v k̀l.

3IN must and 2SG go.home.

"It's necessary for you to go home."

Lì may be omitted in *yà'*-clauses:

Ya'a ka'anɛ alaa, m naan kv yelɛnɛ ya ye ...

Yà' k̄a'a=ní_̀àlá, m̄ n̄aan kú yēlī=ní=yā yē ...

If NEG.BE=DP ADV:thus, 1SG then NEG.IRR say=DP=2PL that...

"If it were not so, I would not have told you that ..." (Jn 14:2)

See 18.3 for omission and movement of subject pronouns in commands.

Subject pronouns are regularly ellipted after *kà* when they would have the same reference as the subject of the preceding clause, except when *kà* introduces a content clause; M spreading still follows *kà*. As *kà*-catenation typically involves a change of subject, this is characteristic of coordination, where a retained pronoun after *kà* usually signals a change of subject. Conversations may be reported *Kà ò yél ... kà ò yél ...* with each *ò* marking a switch of speaker. The implication of subject change can override gender agreement (which is no longer robust [12.4.1](#)) even in the face of semantic inappropriateness, though it cannot override number:

Pɥ'ā lā dá' dāká kà kēŋ Bók.

Woman:SG ART buy box:SG and go Bawku.

"The woman bought a box and went to Bawku." WK

Pɥ'āb lā dá' dāká kà bà kēŋ Bók.

Woman:PL ART buy box:SG and 3PL go Bawku.

"The women bought a box and they went to Bawku." WK

(Possible, though unusual, with "they" referring to "the women.")

but *Pɥ'ā lā dá' dāká kà ò kēŋ Bók.*

Woman:SG ART buy box:SG and 3AN go Bawku.

"The woman bought a box and **it** went to Bawku." WK

The pronoun after *kà* may be ellipted as referring to the subject of a preceding preposed absolute clause:

Ban wɔm nɛ'ɛŋa la ka sɪn.

Bán wòm nē'ŋá lá kà sɪn.

3PL:NZ hear DEMST.IN ART and be.silent.

"After they heard this they fell silent." (Acts 11:18)

Elsewhere, absence of subject pronouns is *informal* ellipsis. M spreading after pronouns again remains:

Náe yà=∅?

Finish PFV=PQ?

"[Have you] finished?"

Such ellipsis may be declared incorrect by speakers if their attention is drawn to it; it does not affect meaning. It can become standardised in greetings or proverbs. *Zi'isige* [16.5](#) appears without a subject in the meaning "unbeknownst."

17.2.3 Post-subject particles

For *yà* "if" 20.1; nominaliser-*ñ* 21; *sāḍgím* "since" 21.1; *nāan(ī)* 20.1.

Sìd "truly":

Ò sìd dāa á nē nā'ab. "Truly, he was a chief." WK
3AN truly TNS COP FOC chief:SG.

Kōlīm or *kōdīm* "always" (← Hausa) is most often found with negatives:

Ka so' kudin ku len nyee li ya'asa.
Kà sō' kōdīm kú lēm ñyées=lì yá'asā=∅.
And INDEFAN ever NEG.IRR again see=3IN again=NEG.
"Nobody will ever see it again." (Rev 18:21, 1996)

Ñyāan or *nāan* "next, afterwards":

Ka Yesu tans ne kvkōtita'ar ka nyaan kpi.
Kà Yesu táñs nē kúkō-títā'ar kà ñyāan kpí.
And Jesus shout with voice-great:SG and next die.
"Jesus cried out with a loud voice and then died." (Mt 27:50)

Pà' tì "perhaps":

Onε pa'ati an Kristo la bεε?
Ōnī_ ∅ pá' tì àñ Kristo lā bées=∅?
3AN.CNTR CAT perhaps COP Christ ART OR=PQ?
"Perhaps he is the Christ?" (Jn 4:29)

Yō'vñ "then, next"

Manoa yv'vñ da baṅ ye o anε Zugsoḅ maliak.
Manoa yō'vñ dá bàṅ yé ò à nē Zūg-sóḅ máliāk.
Manoah then TNS realise that 3AN COP FOC Lord angel:SG.
"Then Manoah realised that he was an angel of the Lord." (Judges 13:12)

18.2 Polar questions

Polar questions are of two types. One is exactly like a statement but ending in a LF showing final vowel lengthening and tone changes imposed by the polar-question clitic [4.1](#). *Nē*^l appears as in statements. The answer expected is *ēēñ* [18.4](#).

Dāy lā ñyé bīgà=ø? "Has the man seen a child?"
Man:SG ART see child:SG=PQ?

Ḃ á nē dáàv=ø? "Am I a man?"
1SG COP FOC man:SG=PQ?

Bà kùvd nē búvsèè=ø? "Are they killing goats?"
3PL kill:IPFV FOC goat:PL=PQ?

F̀ p̄ wóm̀m̀à=ø=ø? "Don't you understand?"
2SG NEG.IND hear:IPFV=NEG=PQ? (expects *ēēñ*, here "no")

The second type follows the ordinary statement form with either *béε* "or" (expecting disagreement) or *kúv* "or" (expecting agreement; rare in NT/KB):

Dāy lā ñyé bīg kúv=ø?
Man:SG ART see child:SG or=PQ?
"Has the man seen a child?" (I expect so.)

Dāy lā ñyé bīg béε=ø?
Man:SG ART see child:SG or=PQ?
"Has the man seen a child?" (I expect not.)

18.3 Commands

For indirect commands, see [22.1](#) [22.2.1](#). In direct commands the subject is 2nd person: 2sg pronouns are deleted, and 2pl pronouns moved to immediately after the verb, assuming the liaison-word form ^{ya} [4.2](#). Thus

F̀ gós bīg lā. "You (sg) have looked at the child."
2SG look.at child:SG ART.

Yà gós bīg lā. "You (pl) have looked at the child."
2PL look.at child:SG ART.

but *Gòsìm bīg lā!* "Look (sg) at the child!"
 Look.at:IMP child:SG ART!

Gòsimī=∅ bīg lā! "Look (pl) at the child!"
 Look.at:IMP=2PL.SUB child:SG ART!

Dā gōs bīg lāa=∅! "Don't (sg) look at the child!"
 NEG.IMP look child:SG ART=NEG!

Dā gōsī=∅ bīg lāa=∅!
 NEG.IMP look=2PL.SUB child:SG ART=NEG!
 "Don't (pl) look down!"

Dā gōsē=∅! "Don't (sg) look."
 NEG.IMP look=NEG!

Dā gōsī=yá=∅! "Don't (pl) look."
 NEG.IMP look=2PL.SUB=NEG!

2sg/2pl subject pronouns are not changed after *yà'*-clauses:

Fv ya'a m̄r pu'a, fvn da m̄cɔd ye fv bas oo.
Fv̀ yá' m̄r p̄ā, fvn dā m̄cɔd yé f̀v̀ básō=o=∅.
 2SG if have wife:SG, 2SG NEG.IMP struggle:IPFV that 2SG abandon=3AN=NEG.
 "If you have a wife, don't try to leave her." (1 Cor 7:27)

They also remain in quoted direct commands within indirect speech [22.2.1](#), even when the addressee is the same as in the original utterance:

Ò yèl yé bà gòsìm tēḡī=n.
 3AN say that 3PL look:IMP ground:SG=LOC.
 "She said to them: Look down!" WK

Ò yèl yé f̀v̀ gòsìm tēḡī=n.
 3AN say that 2SG look:IMP ground:SG=LOC.
 "She said to you SG: Look down!"

Ò yèl yé yà gòsìm tēḡī=n.
 3AN say that 2PL look:IMP ground:SG=LOC.
 "She said to you PL: Look down!"

Some speakers still keep postposed ^{ya} after the verb even when there is a pronoun subject before it; such speakers also repeat ^{ya} in catenated clauses.

Ò yèl yé bà gòsimī=∅ tēṅī=n.
 3AN say that 3PL look:IMP=2PL.SUB ground:SG=LOC.
 "He said to them: Look down!"

Kèṁī=∅ nā n gōsī=∅!
 Come:IMP=2PL.SUB hither CAT look=2PL.SUB!
 "Come (ye) and look!" (WK *Kèṁī nā n gōsī!*)

Direct commands which consist only of a verb, or a verb with a following postposed subject pronoun, occasionally end in a Long Form like that preceding a negative prosodic clitic:

Gòsimā! "Look!"
Gòsimī-yá! "Look! (plural)"

18.4 Verbless clauses

Identificational clauses have the form NP + catenator-*n* + deictic particle or *wà nā* "this here." The NP may be an interrogative pronoun.

K̀̀l̀̀ṅ̀̀ì ∅ lā. "That is a door."
 Door:SG CAT that.

K̀̀l̀̀ṅ̀̀ì ∅ wá nā. "This here is a door."
 Door:SG CAT this hither.

Bēogō ∅ lā. "See you tomorrow" ("That's tomorrow.")
 Tomorrow CAT that.

Bō ∅ lá=∅? "What's that?"
 What CAT that=CQ?

Ñwāamīs ∅ ñwá! "Monkeys!" [w̃ã:misa]
 Monkey:PL CAT this!
 (Said by a passenger in my car, on suddenly catching sight of some.)

Identificational clauses may append clauses by catenation:

Anɔʔɔn nwaɑ yisid nidib tɔvmbɛ'edi basida?

Ànɔʔɔn_ø ñwáɑ_ø yīsīd nīdīb t̄ɔvmb-ɛē'edī_ø básidà=ø?

Who CAT this CAT expel:IPFV person:PL deed-bad:PL CAT throw.out:IPFV=CQ?

"Who is this who drives people's sins out?" (Lk 7:49)

Yɛl bɔɔ nwa ka Wina'am kɛ ka li paae ti?

YĒl-bóɔ_ø ñwá kà Wínà'am kɛ kà lì páa=tì=ø?

Matter-what CAT this and God cause and 3IN arrive=1PL=CQ?

"What is this that God has made to come to us?" (Genesis 42:28)

Identificational clauses can be embedded in verbal clauses:

Ya ningid bɔɔ nwa?

Yà níŋìd bóɔ_ø ñwá=ø?

2PL do:IPFV what CAT this=CQ?

"What is this you are doing?" (Nehemiah 2:19)

Fv maal bɔɔ la tis mam?

Fv̄ màal bóɔ_ø lā_ø tís màm=ø?

2SG make what CAT that CAT give me=CQ?

"What is this that you have done to me?" (Numbers 23:11)

L̄ia clauses have the form X + *l̄ia*, meaning "where is X?" Although I often heard *l̄ia* in spontaneous conversation in the 1990's, no examples appear in the 1996 or 2016 Bible versions.

Fv̄ mà lā l̄ia=ø? "Where is your mother?"

2SG mother:SG ART be.where=CQ? (WK to a child in the outpatient clinic.)

Ka awai la dia [sic]? "But where are the nine?" (Lk 17:17, 1976)

Kà àwāɛ lā l̄ia=ø?

And NUM:nine ART be.where=CQ?

Vocative clauses usually either precede a main clause, or stand alone. They take the form of NPs followed by the vocative prosodic clitic 4.1:

M̄ p̄u'ā né m̄ b̄īsē=ø!

1SG wife:SG with 1SG child:PL=VOC!

"My wife and my children!"

M̄ d̄iəmmā=∅, bó kà f̄v̄ kúə̀sìdà=∅?
 1SG parent.in.law:SG=VOC, what and 2SG sell:IPFV=CQ?
 "Madam, what are you selling?"

Vocatives do not take the article *lā'*, but often end in *ñwà* "this":

| | | |
|-------------------|-------------|-----------|
| <i>B̄iis ñwá!</i> | "Children!" | [bi:sa] |
| <i>P̄y'ā ñwá!</i> | "Woman!" | [p̄ȳāwã] |
| <i>Zōn ñwá</i> | "Fools!" | [zɔn:a] |

Some **particles** occur characteristically as complete utterances. Some are onomatopoeic; others are widely shared among local languages.

| | |
|-------------|-----------------------------|
| <i>Tò.</i> | "OK." (= Hausa <i>tôo</i>) |
| <i>Báp.</i> | "Wallop!" |
| <i>Ñfá!</i> | "Well done!" |

"Yes" is *ēɛñ*; "No" is *áyì*. As in many languages, the reply agrees or disagrees with the question, so that if the question is negative, the usage differs from English:

| | |
|--|----------------------|
| <i>Lì nàa n̄é=∅?</i> 3IN finish FOC=PQ? | "Is it finished?" |
| <i>Ēɛñ.</i> | "Yes." |
| <i>Áyì.</i> | "No" |
| <i>Lì p̄ n̄āé=∅=∅?</i> 3IN NEG.IND finish=NEG=PQ? | "Isn't it finished?" |
| <i>Ēɛñ.</i> | "No." |
| <i>Áyì.</i> | "Yes." |

19 Catenated clauses

A clause may be followed by one or more VPs, each introduced by catenator-*n*; for the realisation of this particle see 4.2. Complements, VP adjuncts, and even other clauses introduced by *kà* may be incorporated within such chains.

Amaa ka Zugsob malek daa keŋ n yo'og sarega doog za'anoor la yu'uŋ kan, n more ba n yiis yiŋ.

Àmáa kà Zūg-sób máliāk dāa kēŋ n yô'og sārɔ́gá dōog

But and Lord angel:SG TNS go CAT open prison:SG house:SG

zá'-nɔɔr lā yō'vŋ-kán, n mōrí=bā n yīis yíŋ.

compound-mouth:SG ART night-DEM.SG, CAT have=3PL CAT extract outside.

"But an angel of the Lord came and opened the gate of the prison **that night** and took them outside ..." (Acts 5:19, 1996)

Ka dau so' due n zi'e la'asug la nidib sisoogin, n a Parisee nid ka o yu'ur buon Gamaliel, n a one pa'an Wina'am wada la yela, ka lem a yu'ur daan nidib sa'an.

Kà dàu-sō' dūe n zí'e lá'asùg lā nīdīb sísvòvgū=n, n áñ

And man-INDEF.AN rise CAT stand assembly:SG ART person:PL among=LOC, CAT COP

Parisee níd kà ò yō'vr būen Gamaliel, n áñ ónì pà'an

Pharisee person:SG and 3AN name:SG call:IPFV Gamaliel, CAT COP REL.AN teach:IPFV

Wínà'am wádà lā yélà, kà lém àñ yō'vr dāan nīdīb sá'an.

God law ART about, and again COP name:SG owner:SG person:PL among.

"A man stood up in the assembly, a Pharisee **called Gamaliel**, a teacher of God's law and also reputable among the people." (Acts 5:34, 1976)

Toende Kusaal (like Dagaare, Bodomo 1997) has *zero* throughout corresponding to catenator-*n*, but most other Western Oti-Volta languages show *n*, at least in slow speech. In languages with the zero realisation, these structures have usually been regarded as serial verb constructions, and many uses of catenation are indeed closely parallel to uncontroversial serial verb constructions in other languages. For example, substitution of *kà* for catenator-*n* makes it impossible to interpret "auxiliary" verbs in the specialised senses associated with *n*-catenation:

Ṁ zání Ṁ m nú'ugò ∅ sī'is dāká lā.

1SG pick.up 1SG hand:SG CAT touch box:SG ART.

"I touched the box with my hand."

Catenation seems always to involve semantic subordination. However, it may be the *first* component which is semantically subordinate; many verbs have characteristic "auxiliary" roles in catenation, preceding or following the "main" verb depending on their own semantics. Furthermore, the order of perfectives expressing events must mirror the order of the events.

N-catenations are sometimes attached to the *object* of *ñyē* "see, find"; I have no examples of this construction with other verbs.

ka na nye Ninsaal Biig la n kenna ne o na'am.

kà ná ñyē Nīn-sâal Bîig lā n kēn nā né ò nā'am.

and IRR see human:SG child:SG ART CAT come:IPFV hither with 3AN kingdom.

"...will see the Son of Man coming with his kingdom."

(Mt 16:28, 1996: *lā* not *lá*)

19.1 N-catenation

Common *n*-catenation patterns with verbs without specialised roles are

(a) main VP + imperfective VP expressing accompanying events:

Ka Ninsaal Biig la kena dit ka nuud...

Kà Nīn-sâal Bîig kēn nā ∅ dīt kà nūud ...

And human:SG child:SG come:IPFV hither CAT eat:IPFV and drink:IPFV...

"And the Son of Man comes eating and drinking ..." (Mt 11:19)

(b) perfective VP expressing prior event + main VP

Ka dapa ayi' ye fupiela zi'e ba san'an.

Kà dāpá_àyí' yé fū-píə̀lā_ ∅ zì'e bà sā'an.

And man:PL NUM:two dress shirt-white:PL CAT stand 3PL among.

"Two men dressed in white were standing with them." (Acts 1:10)

(c) main VP + perfective VP in irrealis or imperative mood, expressing purpose. The preverb *tì* is commonly seen in the second VP.

Amaa m pv mār antu'a zugv o yela na sōbi tis na'atita'ar laa.

Àmáa m̄ p̄v mār ántù'a zúgú_ò yēlá_ ∅ nà sōbī_ ∅ tís

But 1SG NEG.IND have case:SG upon 3AN about CAT IRR write CAT give

ná'-tītā'ar lāa=∅.

king-great:SG ART=NEG.

"But I have no case about him to write to the Emperor." (Acts 25:26)

Kèm ∅ *tí ñyē dú'atà.* "Go and see the doctor."
Go:IMP CAT after see doctor:SG.

Man ya'a pɔ kɛɛn na tu'asini ba ...

Mān yá' pō kēɛ=n nā ∅ *tú'asī=ní=bā...*
1SG.CNTR if NEG.IND come=DP hither CAT talk=DP=3PL ...

"If I had not come to talk to them ..." (Jn 15:22): Note DP on both verbs.

(d) *Hālí* "until" can precede *n*-catenated clauses as a prelinker adjunct 17.2.1.

Catenated VPs can be coordinated with *kà* "and":

ka keŋ ... n ian'asid ka pian'ad n du'osid Wina'am yu'ur su'uŋa.

kà kēŋ ... n iāñ'asíd kà piāñ'ad n dū'osíd Wínà'am yô'ur súŋā.

and go ... CAT leap:IPFV and praise:IPFV CAT elevate:IPFV God name:SG good:ADV.

"and went ... leaping and praising the name of God greatly." (Acts 3:8, 1996)

Sogia so' kae' n tum ka yood o meŋa.

Sógià-sō' kā'e n túm kà yōod ò mēŋá=∅.

Soldier-INDEFAN NEG.BE CAT work:IPFV and pay:IPFV 3AN self=NEG.

"No soldier works and pays for himself." (1 Cor 9:7, 1976)

Certain verbs have characteristic specialised meanings in *n*-catenation. Dual-aspect verbs agree in aspect with the main VP verb.

The following *precede* the (semantically) main VP:

Bè "exist, be somewhere" + *àníñā* "there" + imperfective "be in the process of ..."

Ò bè àníñā n ñwê'ed bīig lā.

3AN EXIST ADV: there CAT beat:IPFV child:SG ART.

"He's currently beating the child."

Àgñ^{ya} "be something/somehow" can be used in clefting 24.2:

Li ane o sidi sv'oe li.

Lì á né ò sīdī ∅ *sú'v=lī.*

3IN COP FOC 3AN husband:SG CAT own=3IN.

"It's her husband who owns it." (1 Cor 7:4)

Mī' "know" and *zī'* "not know": *nàm mī'* *n* + perfective "always have X-ed", *nàm zī'* *n* + perfective "never have X-ed":

Makir bane buudi paadi ya la nan mi' paae sieba men.

Mākír bānì būudī pāadī=yā lā nām mī' ∅ pāe sīēbā mén.

Testing REL.PL sort reach:IPFV=2PL ART still know CAT reach INDF.PL also.

"Trials of the kind that have reached you have always reached others too."

(1 Cor 10:13)

Ṁ nām zī' ∅ ñyē gbīgīmnē=∅.

1SG still NEG.KNOW CAT see lion:SG=NEG.

"I've never seen a lion." SB

Zàṅ^ε and *nōk^{ε/}* "pick up, take" with object "using" (of a literal object as instrument)

Ṁ nók s'vugò ∅ kǐá nīm lā.

1SG pick.up knife:SG CAT cut meat:SG ART.

"I cut the meat with a knife."

Ṁ zǎgí ∅ m n'ugò ∅ sī'is dāká lā.

1SG pick.up 1SG hand:SG CAT touch box:SG ART.

"I touched the box with my hand."

Mōr^{a/} "have" + object "bringing" with motion verbs:

Dābá ∅ àyópòḡ kà fù mōró=∅ ∅ kē nā.

Day:PL NUM:seven and 2SG have=3AN CAT come hither.

"Bring her here in a week." WK

Dōl^{la/} "accompany in subordinate role, attend"

Bà dōllō=∅ ∅ kēṅ Bók. "They went to Bawku with him."

3PL follow=3AN CAT go Bawku.

"Beginning" verbs naturally precede:

Ka Pita pin'ili pa'ali ba ...

Kà Pita pīñ'il ∅ pá'alì=bā ...

And Peter begin CAT teach=3PL ...

"Peter began to tell them." (Acts 11:4)

Tì déṅì ∅ tísò=∅ lór.

1PL precede CAT give=3AN car.

"We previously gave him a car."

Ka dau sɔ' duoe zi'en la'asvɔg la svɔgin ...

Kà dàu-sɔ' dūe_∅ zɪ'ən là'asvòg lā súbvɔ̄=n ...

And man-INDEFAN rise CAT stand.up assembly ART among=LOC ...

"And a man (having risen) stood up in the synagogue ..." (Acts 5:34)

Kēñ "come" and *kēŋ*^{ε/} "go" can be used similarly as initiators:

M̄ kēŋì_∅ pīə nū'us. "I went and washed my hands."

1SG go CAT wash hand:PL.

Su'ā^a "conceal" is used in this construction for "secretly":

Ka Na'ab Herod su'a buol baŋidib la ...

Kà Nà'ab Herod sù'ā_∅ búəl bāŋīdīb lā ...

And king:SG Herod conceal CAT call understander:PL ART...

"Herod secretly called for the wise men ..." (Mt 2:7)

Niŋ wālá literally "do how?" is used in catenation for "how can ...?" (see also [19.2](#)):

Ninsaal na niŋ wala an pɔpiel Wina'am tuonne? Ninsaal biig na niŋ wala pɔ mɔr taal Wina'am tuonne?

Nīn-sâal ná niŋ wālá_∅ àñ pú-pìəl Wínà'am tûønnè=∅?

Human:SG IRR do how CAT COP holy:SG God before=CQ?

Nīn-sâal bīg nà niŋ wālá_∅ pṽ mōr tâal Wínà'am tûønnè=∅?

Human:SG child:SG IRR do how CAT NEG.IND have fault:SG God before=CQ?

"How can a human being be pure before God? How can the child of a human being not have sin before God?" (Job 25:4)

Ñyāŋ^{ε/} means "overcome" as a main verb; as an auxiliary it means "carry out successfully, prevail in":

Ka m nyaŋ dunia.

"I have overcome the world." (Jn 16:33)

Kà m ñyāŋ dūnyā.

And 1SG overcome world:SG.

M̄ pṽ ñyāŋī_∅ záb nà'ab lāa=∅.

1SG NEG.IND prevail CAT fight chief:SG ART=NEG.

"I wasn't able to fight the chief."

Unlike English "can", *ñyāŋ*^{ε/} expresses events and not states. Thus, to express present ability or inability, the auxiliary is in the irrealis mood; if the main verb is imperfective the auxiliary is imperfective too.

M̀ kú ñyāŋ̄_ø záb nà'ab ĺaa=ø.

1SG NEG.IRR prevail CAT fight chief:SG ART=NEG.

"I can't fight the chief." ("I won't succeed in fighting the chief.")

wad line nyaŋedin ketin ka nidib voen

wād-línì ñyāŋídī=n_ ø kētí=n kà nīdīb vōv=n

law-REL.IN prevail:IPFV=DP CAT cause:IPFV=DP and person:PL be.alive=DP.

"a law which could make people live." (Gal 3:21, 1996)

Tūñ'e means "be able"; it is a stative single-aspect verb. As a main verb:

ba daa tis ka li zemisi ba paŋi na tun'e si'em

bà dāa tís kà lì zēmísì_ bà pàŋì=ø nà tūñ'è sī'em

3PL TNS give and 3IN become.equal 3PL strength=NZ IRR be.able INDF.ADV

"They gave as much as their strength would permit" (2 Cor 8:3)

Because of its stative meaning, when *tūñ'e* is used as a *n*-catenation auxiliary both indicative and irrealis moods can express present ability or inability.

ka li kv tun'e su'a.

kà lì kú tūñ'è_ ø sū'āa=ø.

and 3IN NEG.IRR be.able CAT hide=NEG.

"which cannot be hidden" (Mt 5:14)

Ya na tun'e zin' teŋin la ne ti.

Yà ná tūñ'è_ ø zīŋ'i tēŋī=n lā né tì.

2PL IRR be.able CAT be.sitting land:SG=LOC ART with 1PL.

"You can dwell in the land with us." (Genesis 34:10)

Fv tun'e nyet si'ela?

Fv̀ túñ'è_ ø ñyēt sí'èl̀aa=ø?

2SG be.able CAT see:IPFV INDF.IN=PQ?

"Can you see anything?" (Mk 8:23)

O pv tun'e pian'ada.

Ò p̄v tũñ'ə_ ∅ p̄iãñ'adá=∅.

3AN NEG.IND be.able CAT speak:IPFV=NEG.

"He could not speak." (Lk 1:22)

With *ñyāŋ*^{el} as the main verb in the sense "overcome":

bozugo ba ku tun'e nyaŋe ba meŋa.

bō zúgō bà kò tũñ'ə_ ∅ ñyāŋí_ bà mēŋá=∅.

because 3PL NEG.IRR be.able CAT control 3PL self=NEG.

"because they cannot control themselves." (1 Cor 7:5, 1996)

The following verbs *follow* the main VP:

Tìs^ε "give" is used for "to, for"; the meaning may have nothing to do with "giving", and is simply a way of adding an indirect object. This can be used to put an indirect object after a direct, or to have both direct and indirect bound pronoun objects.

Fu pu ma' n tis ninsaala, amaa fu ma' n tis ne Wina'am Siig Suŋ.

Fù p̄v má' n tìs n̄ñ-sáalā=∅, àmáa fù má'

2SG NEG.IND lie CAT give human:SG=NEG but 2SG lie

n tís nē Wínà'am Sí-sòŋ.

CAT give FOC God Spirit-good:SG.

"You have not lied to a human being; rather, you have lied to God's Holy Spirit." (Acts 5:4, 1996)

Ì dāa kûəs bònè_ ∅ tís dú'atà.

1SG TNS sell donkey:SG CAT give doctor:SG.

"I sold a donkey to the doctor."

Gàad^ε "pass, surpass" is used in comparisons:

Isaac kárìm_ ∅ gát John.

Isaac read:IPFV CAT pass:IPFV John.

"Isaac reads better than John." SB

À-Wīn gím_ ∅ gát À-Būgūr.

PERS-Awini be.short CAT pass:IPFV PERS-Abugri.

"Awini is shorter than Abugri." SB

Fv sid nɔŋ mam gat bamaa?

Fò síd nòŋ mām_ø gát bámmáa=ø?

2SG truly love 1SG CAT pass:IPFV DEMST.PL=PQ?

"Do you really love me more than these?" (Jn 21:15)

Gàlìs^ε "get to be too much" (*Sāa gálìs yā* "There's too much rain"):

Ò dì n gálìs.

"She's eaten too much."

3AN eat CAT exceed.

Dā kárìm gbánà_ø gálìsìdā=ø.

NEG.IMP read:IPFV book:PL CAT exceed:IPFV=NEG.

"Don't read books too much."

Bàs^ε "send/go away" is used for "away, off, out":

Anɔ'ɔn nwaa yisid nidib tvumbɛ'edi basida?

Ànɔ'ɔn_ø ñwáa_ø yīsíd nīdīb t̄vum-bē'edī_ø básìdà=ø?

Who CAT this CAT expel:IPFV person:PL deed-bad:PL CAT throw.out:IPFV=CQ?

"Who is this who drives people's sins out?" (Lk 7:49)

"Ending" verbs naturally follow the main VP:

Ò dù_ø nāe.

"He's finished eating."

3AN eat CAT finish.

Ò dù_ø tīg.

"She's eaten to satiety."

3AN eat CAT get.sated.

Verbs of motion occur in *n*-catenation with meanings like local prepositions e.g.

Ò kàt kíkīr-bē'ed-nàm n yīsíd nīdīb.

3AN drive:IPFV fairy-bad-PL CAT expel:IPFV person:PL.

"He drives evil spirits out of people."

Èñrìgìm_ø páa=m. "Shift along up to me." (*pāe*^l "reach")

Shift.along:IMP CAT reach=1SG.

Wēn^{na/} "be like" is very common in *n*-catenation. It takes a prepositional phrase with *wōv* "like" or *nē* "with" as complement. Any object without the article *lā*^l, even a pronoun or proper name, is followed by a meaningless *nē*. As a main verb:

Ka o nindaa wenne nintay ne.

Kà ò n̄n-dáa wēn nē n̄ntāy nē.

And 3AN eye-face:SG resemble with sun:SG like.

"His face is like the sun." (Rev 10:1, 1996: KB *Ka o nindaa nwenε winnig nε*)

Wēn nē and *wēn wōv* behave as unitary prepositions to the extent that *wēn* + preposition + complement can be preposed with *kà*, or dislocated as in

Da lo ya nindaase, wenne foosug dim la niḡid si'em la.

Dā ló yà n̄n-dáasē=∅, wēn nē f̄wosúg díim lá=∅

NEG.IMP tie 2PL eye-face:PL=NEG, resemble with puff:GER NULL.PL ART=NZ

n̄ḡid s̄'əm lā.

do:IPFV INDE.ADV ART.

"Don't screw up your faces like the hypocrites do." (Mt 6:16, 1976)

Là'am^m "together" is also found as a preverb 16.8 and in the compound preposition *là'am nē* "together with" 15. As a main verb it means "associate with":

... ye labasuḡ moolug la ket ka buudi wusa la'amid ne taaba pudugid Wina'am piini.

... yē lábà-sùḡ mólùg lā kèt kà būudī wōsā lá'amìd

... that news-good:SG proclamation ART cause:IPFV and tribe all gather:IPFV

nē tāabā ∅ p̄d̄igìd Wínà'am p̄inì.

with each.other CAT share:IPFV God gift.

"...that the proclamation of the good news is making every tribe gather with one another to share God's gifts." (Eph 3:6, 1996)

Yà'as^ε or *yà'as*^a "again" is rarely preceded by liaison (never in KB) and has now effectively simply become an adverb; it is even preposable with *kà* 24.3. ILK glosses it "repeat", but I have no examples as a main verb.

ka m lem yeti ya'as ... "and I say again ..." (Gal 1:9, 1996)

kà m lém yèti ∅ yâ'as

and 1SG again say:IPFV CAT again

Ya'as ka m gos ... "Again I looked ..." (Rev 5:11, 1976)

Yà'as kà m gōs ...

Again and 1SG look ...

19.2 *Kà*-catenation

Certain constructions with a clause introduced by *kà* have clear affinities with catenation using *n*. They never have alternate forms with the linker *yē*. With few exceptions, they either have different subject from the preceding clause or differ in polarity. They resemble *n*-catenation in that they have the aspect and mood of the preceding VP.

Kē "let, leave off" is used with *kà*-catenation in the sense "let, cause that." The subject of the catenation cannot be the same as the main clause subject (in the whole KB, the only counterexample is Titus 2:7 *kēl ka fū mēη an zanbinne tisi ba* "Let you yourself be a sign to them", where the pronoun *fū* is formally a predependent.) The mood of the catenation matches the VP containing *kē*, though imperative often replaces irrealis mood.

Li da ke ka ba pū nyāηi kuv o.

Lì dà kè kà bà pū ñyāηī ∅ kúo=∅=∅.

3IN TNS cause and 3PL NEG.IND prevail CAT kill=3AN=NEG.

"This caused them not to be able to kill him." (2 Kings 11:2)

Ba kvdim niηidi lin ye li ke ka ba da nye Kristo kum dapuudir namisvη laa.

Bà kōdīm niηìdī=lí yé lì ké kà bà dā ñyē Kristo kúm

3PL ever do:IPFV=3IN that 3IN cause and 3PL NEG.IMP see Christ death

dà-pōvdír námisùg láa=∅.

wood-cross:SG suffering ART=NEG.

"They have always been doing this so that they will not experience the suffering of the cross of the death of Christ." (Gal 6:12)

dine na ke ka ba da kpi'ilim.

Dīnī ∅ ná ké kà bà dā kpi'ilímm=∅.

3IN.CNTR CAT IRR cause and 3PL NEG.IMP finish=NEG.

"That will cause them not to come to an end." (Genesis 6:20)

After *kés=n kà*, with discontinuous-past *n^ε*, the catenated clause generally had *n^ε* in the 1976 Bible, but this is no longer invariable. Aspect usually matches:

Ka li ane wada la ket ka tvvmbē'ed nyet paη.

Kà lì à né wādá lā ∅ kēt kà tvvmb-ē'ed ñyēt páη.

And 3IN COP FOC law ART CAT cause:IPFV and deed-bad see:IPFV power:SG.

"It is the law which makes sin find power." (1 Cor 15:56)

The irregular imperative *kèl*^a, followed by a *kà*-clause with imperative mood, creates a way of expressing commands to third or first persons:

Kèl kà ò gōs tēḡī=n.

Cause:IMP and 3AN look ground:SG=LOC.

"Let him look down."

Dā ké kà dāb̄ōm b́éε=ø!

NEG.IMP cause and fear EXIST=NEG.

"Don't be afraid." ("Let fear not exist.")

Kèl [or *Kèlí=ø*] *kà tì p̄'vs Wínà'am.*

Cause:IMP cause:IMP=2PL.SUB and 1PL greet God.

"Let us praise God."

Kèl kà ... is often ellipited informally, leaving the lack of independency marking as the only sign that the clause is a command:

Ḿ gōs nīf lā.

1SG look.at eye:SG ART.

"I've looked at the eye."

Independency marked: tone overlay on *gōs*

but *Ḿ gōs nīf lā.*

1SG look.at eye:SG ART.

"Let me look at the eye." (Overheard in clinic)

No tone overlay on *gōs*

Ḿ díḡinèε=ø?

1SG lie.down=PQ?

"Am I to lie down?" (Overheard in clinic)

No independency imperative *-ma*

Ò záb nà'ab lā.

3AN fight chief:SG ART.

"He should fight the chief."

M spreading after *ò*, not *záb* 16.6.1

M̄t is a defective verb used only in the imperative 16.5. Much its most common use is with *kà*-catenation as "see that it doesn't happen that ...". In this sense it never appears with the postposed 2pl subject ^y^a, suggesting that it is impersonal.

Mid ka ya maali ya tvum svma nidib tuon ye ba gōs.

M̄t kà yà máali yà tvum-sv̄mà n̄d̄īb t̄uon yé bà gōs.

NEG.LET.IMP and 2PL make 2PL deed-good:PL person:PL front that 3PL look.at.

"Don't do your good deeds in front of people so they'll look." (Mt 6:1)

X *n̄ḡ wēlá n...?* "how can X ...?" has an impersonal variant using a dummy subject in the main clause and the effective subject in *kà*-catenation.

Li niŋ wala ka o an David yaaŋa?

Lì nìŋ wēlá kà ò áñ David yāaŋà=∅?

3IN do how and 3AN COP David descendant:SG=CQ?

"How can he be David's descendant?" (Mt 22:45)

Where there is no change of subject, *n*-catenation is overwhelmingly more common, but a few cases of the personal type do appear with *kà*:

M na niŋ wala ka nye faangire?

M̄ ná nīŋ wēlá kà ñyē fāaŋíré=∅?

1SG IRR do how and find salvation=CQ?

"How can I find salvation?" (Acts 16:30)

Kà usually replaces *n* when there is a change of polarity in catenation:

Ka dau daa zin'i Lystra ni ka pu tun'e kenna.

Kà dāy dāa zīñ'i Lystra ní kà p̄ tūñ'ə ∅ kēnná=∅.

And man:SG TNS sit Lystra LOC and NEG.IND be.able CAT go:IPFV=NEG.

"There was a man in Lystra who could not walk." (Acts 14:8, 1996)

Ka Joon kena lōd nōr ka p̄ nuud daam

Kà Joon kē nā ∅ lōd nōr kà p̄ nūud dáamm=∅.

And John come hither CAT tie:IPFV mouth:SG and NEG.IND drink:IPFV beer=NEG.

"John came, fasting and not drinking beer." (Mt 11:18)

Change from positive to negative can nevertheless occur with *n*:

Ya sieba be kpela kv kp̄i ...

Yà s̄əbā bé kp̄lā ∅ k̄v̄ kp̄ī=∅ ...

2PL INDF.PL EXIST here CAT NEG.IRR die=NEG ...

There are some of you here who will not die ..." (Lk 9:27)

An **adnominal** *kà*-catenated clause follows, usually directly, a NP anchor other than the main clause subject, and contains a pronoun referring to it, which is ellipted if it is an object 16.9.1. The sense resembles a non-restrictive relative clause:

Anina ka o nye dau ka o yv'vr buon Aneas.

Āníná kà ò ñyē dāy kà ò yv'vr būn Aneas.

ADV:there and 3AN see man:SG and 3AN name:SG call:IPFV Aeneas.

"There he found a man whose name was Aeneas." (Acts 9:33)

Li ane ya taaba bane pv'usid Wina'am ka li nar ka ya kad saria.

Lì à né yà tāabā bání pò'usìd Wínà'am kà lì nár

3IN COP FOC 2PL fellow REL.PL greet:IPFV God and 3IN must

kà yà kád sàríyà.

and 2PL drive judgment.

"It is your fellow-worshippers of God whom you must judge." (1 Cor 5:12)

If the main clause is a verbless identificational clause [18.4](#), the NP of the main clause can be the anchor:

Yel bɔɔ nwa ka Wina'am ke ka li paae ti?

YĒl-bóɔ ∅ ñwá kà Wínà'am ké kà lì páa=tì=∅?

Matter-what CAT this and God cause and 3IN arrive=1PL=CQ?

"What is this that God has made to come to us?" (Genesis 42:28)

Adnominal *kà*-catenation underlies *kà*-clefting and preposing.

The subject of the catenated clause does not normally refer to the anchor; if it does, the *kà*-catenation is a resultative predicate [16.9.2](#):

...ka la'am maan gigis ka ba wum ka pia'ad.

...kà lâ'am màn gígìs kà bà wóm kà pīāñ'ad.

...and together make:IPFV dumb:PL and 3PL hear:IPFV and speak:IPFV.

"...and even makes the dumb hear and speak." (Mk 7:37, 1976)

With *ñyē* "see", this construction has the predicative sense "see as":

M̄ dāa ñyē dāy lá kà ò áñ nā'ab.

1SG TNS see man:SG ART and 3AN COP chief:SG.

"I saw the man as a chief." KT: not possible as "who was a chief"

M̄ dāa p̄ ñyē dāy lá kà ò áñ nā'abā=∅.

1SG TNS NEG.IND see man:SG ART and 3AN COP chief:SG=NEG.

"I didn't see the man as a chief." KT

As expected, KT rejected constructions with tense marking in the *kà*-catenation. He also rejected focus-*nē* in the catenated clause:

**M̄ dāa p̄ ñyē dāy lá kà ò á nē nā'abā=∅.*

1SG TNS NEG.IND see man:SG ART and 3AN COP FOC chief:SG=NEG.

20 Conditional clauses

20.1 Structure

Conditional clauses have a *yà'*-clause as postlinker adjunct, after any other adjuncts. The main clause can be of any type, including a command or a question.

F̀̀ yá' gōs kpēlá, bó kà f̀̀ ñyētá=ø?
 2SG if look here, what and 2SG see:IPFV=CQ?
 "If you look here, what do you see?"

Yà'-clauses cannot be coordinated, but there may be several in a main clause:

Ka ligidi la ya'a p̀̀'ɔg, m ya'a ti lɛb na, m na yɔɔf.
Kà līgīdī lā yá' p̀̀'ɔg, m̀̀ yá' tì lèb nā, m̀̀ ná yóɔ=f.
 And money ART if get.small, 1SG if then return hither, 1SG IRR pay=2SG.
 "If the money runs short, when I return I will repay you." (Lk 10:35)

The main clause must have an unellipted subject. Direct commands keep a subject pronoun in place; some speakers require a free pronoun form in such cases:

F̀̀ yá' a m̄r pu'a, f̀̀n da m̄ɔd ye f̀̀ bas oo.
F̀̀̀ yá' m̄r p̄'ā, f̀̀n dā m̄ɔd yé f̀̀ bāsō=o=ø.
 2SG if have wife:SG, 2SG NEG.IMP struggle:IPFV that 2SG abandon=3AN=NEG.
 "If you have a wife, don't try to leave her." (1 Cor 7:27)

Yà'-clauses can appear clause-finally because of dislocation due to weight:

Dinzug li naan a su'um ba ya'a pu du'an dau kaŋaa.
Dìn-zúg lì nāan áñ sóm bà yá' p̄ d̄v'a=n dáy-kàŋáa=ø.
 Thus 3IN then COP good:ABSTR 3PL if NEG.IND bear=DP man-DEMST.SG=NEG.
 "So it would have been better for that man not to have been born."
 (Mk 14:21, 1996)

Yà'-clauses express tense independently. They can have irrealis mood, but an indicative event-perfective need not have past reference:

F̀̀ yá' a na dōllimi keŋ, m na keŋ.
F̀̀̀ yá' nà dōllí=mī_ ø kēŋ, m̀̀ ná kēŋ.
 2SG if IRR accompany=1SG CAT go, 1SG IRR go.
 "If you will go with me, I will go." (Judges 4:8)

M ya'a pv keŋε, Svŋid la kv keen ya ni naa.

M̄ yá' p̄v kēŋé=∅, svŋīd lā kú kēēñ_yà nī náa=∅.

1SG if NEG.IND go=NEG, helper:SG ART NEG.IRR come 2PL LOC hither=NEG.

"If I do not go, the Helper will not come here to you." (Jn 16:7)

The **discontinuous-past marker** n^{ε} 16.3.2, beside tense, is used to express *modal remoteness* (cf CGEL pp148ff), describing a hypothetical or unlikely state of affairs. If it is accompanied by post-subject *nāan(ī)*, the sense is contrary-to-fact. It can attach to any verb form apart from imperatives. In catenation, n^{ε} in the first VP is usually repeated in all. It appears most often in *yà'*-clauses, but can occur both with and without *nāan(ī)* elsewhere:

Man bōōdin ne yaname naan aan ma'asiga bεε yaname naan aan tvvliga.

Mān bōōdī=n nē yānāmì nāan āa=n mā'asígā bēε

1SG.CNTR want=DP that 2PL:NZ then COP=DP cold:ADV or

yānāmì nāan āa=n tvvligā.

2PL:NZ then COP=DP hot:ADV.

"I might wish you had been cold or you had been hot." (Rev 3:15)

Post-subject *nāan(ī)* "in that case, matters being so" is distinct from *ñyāan* "next, then" (← *ñyá'ay*^a "behind"), but before 2016 *ñyāan* often appears as *nāan*. Thus, in parallel NT passages:

Fu na ki'is noor atan' ye, fu zi' ma, ka noraug nyaan kaas.

Fù ná kī'is nóor àtáñ' yé fù zī'í=mā=∅,

2SG IRR deny occasion:SG NUM:three that 2SG NEG.KNOW=1SG=NEG,

kà nō-dāvḡ ñyāan kāas.

and hen-male:SG next cry.

"You will thrice deny you know me before the cock crows." (Mt 26:75, 1996)

Fu na ki'is man noor atan' ka noraug naan [KB nyaan] kaas noor ayi.

Fù ná kī'is mān nóor àtáñ' kà nō-dāvḡ

2SG IRR deny 1SG.CNTR occasion:SG NUM:three and hen-male:SG

nāan kāas nóor àyí'.

next cry occasion:SG NUM:two.

"You will thrice deny me before the cock crows twice." (Mk 14:30, 1996)

Nāan(ī) originates from the verb *nāan*^{el} "be there", which typically appears as an auxiliary with its own locative complement before a *n*-catenated clause:

Ka nwadbibis na naan agola lit tejin na.

Kà ñwā́d-bí́bìs ná nāan àgólà ∅ lít tēñī=n nā.

And moon-small:PL IRR be.there ADV:above CAT fall:IPFV ground:SG=LOC hither.

"And the stars [being] above will fall to earth." (Mk 13:25)

Fv ya'a sid anε Wina'am Biig fon naanim dapuudir la zugv sig na.

Fvò yá' sùd à nē Wínà'am Bîig, fōn náanìm dá-pvvdír lā

2SG if truly COP FOC God child:SG, 2SG.CNTR be.there:IMP wood-cross:SG ART

zùgv ∅ sīg nā.

upon CAT descend hither.

"If you are truly the Son of God, come down here from the cross." (Mt 27:40)

I will omit CAT in interlinear glossing after *nāanī*.

In subordinate clauses KB usually simply has irrealis *nà* where older versions had *nāan*. Modal *nāan(ī)* most often appears in conditional main clauses; in other main clauses *nāan* without *n^ε* often represents *ñyāan*, as above.

Nāan(ī) without *n^ε* is often effectively equivalent to *yà'* "if/when."

Li an svm ye dau yinne naan kpi nidib la yela gaad ...

Lì àñ sùm yē dāy yīnní nāan kpí nīdīb lā yéla ∅ gād ...

3IN COP good that man:SG one then die person:PL ART about CAT pass ...

"It is better if one man should die for the people than ..." (Jn 11:50)

Fun naani tum be'ed ka ba sigis uf ne kpisiηkpil ka fu sin ka mor suguru, li su'um a bo?

Fún nāanī tùm bē'ed kà bà sīgísú=f nē kpísìnkpìl

2SG:NZ then do bad and 3PL put.down =2SG with fist:SG

kà fù sìn kà mōr sūguru, lì sòm àñ bó=∅?

and 2SG be.silent and have forbearance, 3IN good:ABSTR COP what=CQ?

"If you do evil and they down you with fists and you are silent and forbear, what is the good of it?" (1 Pet 2:20, 1996)

Noñir lem kae' gaad nidi naan kpi o zuanam zugo.

Nòñìr lém kā'e ∅ gād nīdí=∅ nāan kpí ò zùà-nàm zúgō=∅.

Love again NEG.BE CAT pass person:SG=NZ then die 3AN friend-PL upon=NEG.

"There is no love greater than if a person dies for his friends." (Jn 15:13, 1996)

Ba wenne zunzoη naani ve'ed zunzoη ne.

Bà wēn nē zúnzòη=∅ nāanī vē'ed zúnzòη nē.

3PL resemble with blind.person:SG=NZ then lead:IPFV blind.person:SG like.

"They are like when a blind person leads a blind person." (Mt 15:14, 1996)

Nāan(ī) with n^{ε} expresses contrary-to-fact, as in conditional clauses:

Li su'm ka fu daa naan zaɲin m ligidi n su'an banki ni.

Lì sò'm kà fù dāa nāan záɲí=n̄ m̄ līgīdī n sū'a=n bánkì ní.

3IN be.good and 2SG TNS then take=DP 1SG money CAT hide=DP bank:SG LOC.

"You should have put my money in the bank." (Mt 25:27, 1976)

Yà' nāan(ī) means "if only":

M zugdaan la ya'a naan siaki keɲ nyɛɛn nɔdi'es la be Samaria la!

M̄ zūg-dāan lā yá' nāan sɪákì_∅ kēɲ_∅ ñyēɛ=n

1SG head-owner:SG ART if then agree CAT go CAT see=DP

nó-d̄ɪ'əs lā_∅ bē Samaria lā!

mouth-transmitter:SG ART CAT EXIST Samaria ART!

"If only my lord would agree to go to see the prophet in Samaria!" (2 Kings 5:3)

20.2 Open

Conditional clauses without discontinuous-past n^{ε} or *nāan(ī)* express "if", and also "when" with a main clause with present or future reference (cf Hausa *ìdan*, Jaggar p608.) With main clauses with past reference, *yà'* is only used for conditionals; for the meaning "when", absolute clauses are used [21.1](#).

Nid ya'a tɔm tɔvma, o di'ed yɔɔd.

Nīd yá' tòm tōvmā, ò d̄i'əd yōɔd.

Person:SG if work:IPFV work, 3AN receive:IPFV pay.

"If a person works, he gets pay." (Rom 4:4)

Ka Kristo ya'a da pu vu'vg kumine, alaa ti labasvɛ la mɔɔlvɛ la ane zaalim.

Kà Kristo yá' dà p̄ vū'vg kūmī=né=∅, àlāa_∅ tì làbà-sv̄ɛ

And Christ if TNS NEG.IND come.alive death=LOC=NEG, ADV:thus 1PL news-good:SG

lā mɔɔlv̄ɛ lā á nē zāalīm.

ART proclamation ART COP FOC empty:ABSTR.

"If Christ did not rise from death, our preaching is empty." (1 Cor 15:14)

Fù yá' sɪàk, tì ná d̄īgīlì=f.

2SG if agree, 1PL IRR lay.down=2SG.

"If you agree, we'll put you to bed [i.e. admit you to hospital.]"

Bεog ya'a nie fɔ na wɔm o pian'ad.

Bēog yá' n̄e, fò ná wóm ò p̄iǎǎ'ad.

Tomorrow if appear, 2SG IRR hear 3AN speech.

"When tomorrow comes, you will hear his words." (Acts 25:22)

20.3 Hypothetical

If discontinuous-past n^{ε} occurs in the $yà'$ -clause and the main clause has irrealis mood without $nāan(\bar{i})$, the meaning is hypothetical. In the 1976 NT the main clause also has n^{ε} , but not in later versions. KB sometimes uses constructions identical to open conditionals with irrealis in the main clause in this meaning.

Wief ya'a sigin li ni, li zuluŋ na paaen o salibir.

W̄iəf yá' s̄ígí=n l̄i n̄i, l̄i zùlòŋ ná páa=n ò sàlib̄ir.

Horse:SG if descend=DP 3IN LOC, 3IN depth IRR reach=DP 3AN bridle:SG.

"If a horse went down in it, its depth would reach its bridle." (Rev 14:20, 1976)

KB: *Ka wief ya'a sigi li ni, li zuluŋ na paae o salibir.*

Nobir ya'a yelin ye, on pu a nu'ug la zug, o ka' niŋbiŋ nii, lin ku nyaŋin keen ka o ka' niŋbiŋ nii.

Nób̄ir yá' yèl̄i=n yē, ón p̄ū áñ n̄ú'ug lā zúg,

Leg:SG if say=DP that 3AN:NZ NEG.IND COP hand:SG ART upon,

ò k̄ā' n̄ín-gb̄īŋ ní=∅, l̄in kú ñyāŋī=n ∅

3AN NEG.BE body:SG LOC=NEG, DEM.IN NEG.IRR accomplish=DP CAT

kéε=n kà ò k̄ā' n̄ín-gb̄īŋ ní=∅.

cause=DP and 3AN NEG.BE body:SG LOC=NEG.

"If the leg said, because it is not a hand, it is not in the body, that would not cause it not to be in the body." (1 Cor 12:15, 1976)

KB: *Nób̄ir ya'a yelin ye, "Man ka' nu'ug la zug, m ka' niŋbiŋ la nii," lin ku nyaŋi kε ka o ka' niŋbiŋ la nii.*

20.4 Contrary-to-fact

If the main clause has $nāan(\bar{i})$, there is a contrary-to-fact implication. Both main and $yà'$ -clause have discontinuous-past n^{ε} :

Man ya'a pɔ keen na tu'asini ba, ba naan kv mɔrin taale.

Mān yá' p̄ū kēε=n n̄ā ∅ tú'asī=ní=bā, bà nāan kú

1SG.CNTR if NEG.IND come=DP hither CAT talk=DP=3PL, 3PL then NEG.IRR

m̄ōrī=n tâallē=∅.

have=DP fault:SG=NEG.

"Had I not come to speak to them, they would not have been guilty." (Jn 15:22)

M ya'a mōrin sv'v̄gv m nu'ugin m naan kv̄vnif nannanna.

M̄ yá' mōrī=n sv'v̄gò m̄ nú'ugī=n, m̄ nāan kv̄v=ní=f nānná-nā.

1SG if have=DP knife:SG 1SG hand:SG=LOC, 1SG then kill=DP=2SG now.

"If I'd had a sword in my hand, I'd have killed you right now." (Numbers 22:29)

Ba ya'a daa mi'ine li, ba naan kv̄ kpa'an Zugsob one an na'atita'ar la dapuudir zugō.

Bà yá' dāa mī'i=ní=lī, bà nāan kú kpā'a=n Zūg-sób ónì

3PL if TNS know=DP=3IN, 3PL then NEG.IRR fasten=DP Lord REL:AN

añ ná'-tītā'ar lā dá-p̄vdá zùgō=∅.

COP king-great:SG ART wood-cross:PL upon=NEG.

"If they had known it, they would not have fastened the Lord, who was a great king, to a cross." (1 Cor 2:8)

Contrary-to-fact conditions in the past are also sometimes marked with irrealis mood along with past tense markers in the main clause; WK specifically confirmed that the sense of this combination is contrary-to-fact, not future-in-the-past.

Bōzugō Josua ya'a da tisini ba v̄v'v̄sv̄m zin'ig, Wina'am da kv̄ lem pian' dabis-si'a yēla ya'ase.

Bō zúgō Josua yá' dà tīsī=ní=bā v̄v'v̄sīm zīñ'ig, Wínà'am dá kù

Because Joshua if TNS give=DP=3PL resting place:SG, God TNS NEG.IRR

lēm pīāñ' dábìs-sī'a yēlà yà'asē=∅.

again speak day-INDEF.IN about again=NEG.

"For if Joshua had given them a resting place, God would not subsequently have spoken of a certain day." (Heb 4:8)

Without a *yà'*-clause:

Ò dāa ná zāb nā'ab lā.

3AN TNS IRR fight chief:SG ART.

"He would have fought the chief (but didn't.)" WK

21 Ñ-clauses

Clauses are nominalised by inserting the post-subject particle *ñ* NZ 4.2, which turns an original clause "X" into an *absolute* clause signifying "it being the fact that X." Ñ-clauses are also the basis of relative clauses, but *ñ* often fuses with a preceding demonstrative to create what is synchronically simply a relative pronoun.

Ñ-clauses have independent tense marking (but relative to the *narrative* timeline within narrative 16.3.4.) Irrealis mood replaces imperative:

Yaname na mōr sam si'a anε ye ya nōη taaba.

Yānámì nà mōr sām-sí'a á nē yé yà nōη tāabā.

2PL:NZ IRR have debt-INDF.IN COP FOC that 2PL love each.other.

"The debt which you are to have is to love each other." (Rom 13:8)

Ñ-clauses cannot contain focus particles, but relative pronouns are often preposed with *kà*. Contrastive pronouns can be subjects of *ñ*-clauses:

wuu mane a si'em la.

"as I am." (1 Cor 7:7, 1996)

wōv mánì=∅ àñ sī'əm lā.

like 1SG.CNTR=NZ COP INDF.ADV ART.

Ñ-clauses take no dependents themselves except predependent NPs or articles. Absolute *ñ*-clauses normally take the article *lā'*. After relative clauses *lā'* has its usual function; clauses without *lā'* are usually indefinite but specific.

... amaa o di'enε one tvmi m la na

... àmáa ò dīə nē ónì tò̀mì=m lā nā

... but 3AN receive FOC REL.AN send=1SG ART hither

"... but he receives him who sent me hither." (Mk 9:37)

One du'a nε Siig mε anε ala.

Ònì dū'à nē Sīig mé á né àlà.

REL.AN bear with spirit:SG also COP FOC thus.

"Someone born of the Spirit is like that too." (Jn 3:8)

The article is not repeated a second time after an *ñ*-clause which ends in a NP with *lā'*. If the clause contains the VP-final particles *nā'* "hither" or *sà* "hence", these may follow an article belonging to the *ñ*-clause 16.11.

If a *ñ*-clause has a negative VP, the negative prosodic clitic is dropped unless the *ñ*-clause lacks *lā'* and is itself clause-final in the superordinate clause 23.

21.1 Absolute clauses

Ñ-clauses without relative pronouns or indefinite pronouns used as relatives are **absolute clauses**, meaning "it being the fact that ...":

Dāy lā záb nà'ab lā. "The man has fought the chief."
Man:SG ART fight chief:SG ART.

dāy lá=∅ zàb nà'ab lā "the man having fought the chief"
Man:SG ART=NZ fight chief:SG ART

The most characteristic use of absolute clauses is as AdvPs of time or circumstance. They are the usual way of expressing past "when", used as postlinker adjuncts [17.2.1](#) or as VP adjuncts, generally preposed with *kà* [24.3](#). As Kusaal is stricter than English in requiring constituent order to reflect event order, the VP-final adjunct position is usually confined to cases where the absolute clause expresses a state of affairs rather than a single event:

Ōn dāa ñyēt súnā, ón dāa áñ bí-lā láa=∅?
3AN.CNTR TNS see:IPFV good:ADV, 3AN:NZ TNS COP child-baby:SG ART=PQ?
"Did she see well when she was a baby?"

Tense markers in an absolute clause are the same as in the main clause; the main clause markers may be omitted if the absolute clause precedes. It is thus not possible to manipulate the time relationship with tense particles; instead, this is determined by aspect, with a perfective in the absolute clause implying a prior event and imperfective a simultaneous one, setting the temporal scene for the main clause.

Ka ban dit la, Yesu yeli ba ...
Kà bán dīt lā, Yesu yéì=bā ...
And 3PL:NZ eat:IPFV ART, Jesus say=3PL ...
"As they were eating, Jesus said to them ..." (Mt 26:21)

Ka ban yi la, ka Zugsob malek nie o meṅ ...
Kà bán yī lā, kà Zūg-sób máliāk nīe ò mēṅ ...
And 3PL:NZ emerge ART and Lord angel:SG appear 3AN self
"After they had left, an angel of the Lord showed himself ..." (Mt 2:13, 1996)

Like other AdvPs, absolute clauses have limited uses as verb arguments [13.1](#):

Dine ke ka m a saalbiis zua la ane

mam pu sa'amidi ba la'ad ka me pu diti ba ki la.

Dìnì ké kà òn s̄aal-b̄iis z̄uá lā á nē mán

REL.SG cause and 1SG COP smooth-child:PL friend:SG ART COP FOC 1SG:NZ

p̄ō s̄áñ'amìdí b̄à lā'ad kà mé p̄ō d̄ítí b̄à kī lāa=∅.

NEG.IND spoil:IPFV 3PL goods:PL and also NEG.IND eat:IPFV 3PL millet ART=NEG.

"What makes me a friend of human beings is

that I don't spoil their property or eat their millet." BNY p20

Verbs of perception or communication take content clauses or relative clauses with indefinite pronouns as objects, never absolute clauses.

Absolute clauses with *s̄ādīgīm* "since, because" immediately following nominaliser-*ñ* occur as postlinker adjuncts expressing "reason why":

Amaa on sadigim kpi la, bo ka m lem lood noor ya'ase?

Àmáa ón s̄ādīgīm kpí lā, bó kà òn lém lōod nōor yá'asè=∅=∅?

But 3AN:NZ since die ART, what and 1SG again tie:IPFV mouth:SG again=NEG=CQ?

"But since he has died, why should I still be fasting?" (2 Samuel 12:23)

Tiname sagidim aan o biis la, ti da ten'es ...

Tīnámì s̄ādīgīm áañ ò b̄iis lā, tì dā tēñ'es ...

1PL:NZ since COP 3AN child:PL ART, 1PL NEG.IMP think ...

"Since we are his children, we should not think ..." (Acts 17:29)

For absolute clauses with post-subject *nāan(ī)* see 20.1.

Absolute clauses occur after *hālī nē* or *hālī là'am nē* "although, even as" 15, and *hālī n tì pāa ...* "up until the time when ..." 17.2.1.

Before the postposition *zūg*^{o/} "on account of", or *bō zūgō* "because", absolute clauses form reason-why AdvPs used as adjuncts:

Ban mōr deŋ la zug, ba kv di'e baa.

Bán mōr dēŋ lā zúg, b̄à k̄ò d̄í'ə=báa=∅.

3PL:NZ have wound:SG ART upon, 3PL NEG.IRR receive=3PL=NEG.

"Because they have a defect, they will not be accepted." (Leviticus 22:25)

Mán ñwè' dāu lā zúg kà pōlīs gbáñ'a=m.

1SG:NZ strike man:SG ART upon and police seize=1SG.

"The police arrested me because I struck the man." ILK

It is commoner for causation to be simply implied by an absolute clause as postlinker adjunct or preposed VP adjunct, or just by coordination with *kà*.

Yēlá "concerning" appears after absolute clauses in NT section headings, and absolute clauses alone are used as picture captions:

Jesus n kpen' Jerusalem la yela
Jesus=ñ kpèñ' Jerusalem lā yéla
 Jesus=NZ enter Jerusalem ART about
 "[about] Jesus entering into Jerusalem."

Ban meed yir "A house being built"
Bán mēed yīr
 3PL:NZ build:IPFV house:SG

21.2 Relative clauses

Relative clauses are of two structural types: those which use relative pronouns, and those which use indefinite pronouns in the role of relatives. The relative clause subject is followed by *ñ* in the indefinite-pronoun type; unitary relative pronouns have arisen from fusion of a clause-initial short demonstrative pronoun with a following *ñ*.

In either case, the pronoun may be a head, as clause antecedent, or a dependent after a cb which is the clause antecedent. Relative clauses are restrictive when the pronouns are compounded with a cb, but need not be so otherwise.

Written materials avoid *kane kàni* as a relative for human reference (invariably so after proper names), substituting *one òni*, which cannot be preceded by a cb; the resulting construction is appositional:

o sid one da be ne o la
ò sīd óni dà bè né ò lā
 3AN husband:SG REL.AN TNS EXIST with 3AN ART
 "her husband, who was there with her" (Genesis 3:6) [clearly non-restrictive]

Uncompounded pronouns are obviously necessary with heads that lack cbs or have a coordinate structure:

nimbane yuda sōb Pēbil la gbaun linε an nyɔvupaal dim gbaun la
nīn-báni yōdá sōb Pē'-bīl lā gbáun̄=n línì
 person-REL.PL name:PL write sheep-small:SG ART book:SG=LOC REL.IN
àn ñyó-v̄-pāal dím gbáun̄ lā
 COP breath-alive-new:SG NULL.PL book:SG ART
 "those whose names are written in the Lamb's book of those with new life"
 (Rev 21:27)

kokor kaŋa lini yi arazana ni la na

kòkòr-káŋā línì yí àràzánà ní lā nā

voice-DEMST.SG REL.IN emerge sky:SG LOC ART hither

"this voice which came from heaven" (2 Pet 1:18, 1976)

Mam Paul ne Timoti banε an Yesu Kristo tvmtnib la

Mām Paul nē Timoti bánì àñ Yesu Kristo tóm-tōmníb lā

1SG.CNTR Paul with Timothy REL.PL COP Jesus Christ worker:PL ART

"I, Paul, and Timothy, the servants of Jesus Christ" (Phil 1:1)

A relative clause introduced by a relative pronoun may contain indefinite pronouns with their normal meaning, and a relative clause with an indefinite pronoun as relative may contain other indefinite pronouns in their normal function so long as they precede the pronoun with relative meaning. Short demonstrative pronouns are never relatives when non-initial, and long demonstratives are never relatives at all:

Wina'am onε gaad si'el wɔsa la

Wínà'am ónì gàad sī'əl wōsā lā

God REL.AN pass INDEF.IN all ART

"God who surpasses everything." (Lk 1:35)

wɔv baŋi gban'ad si'el si'em la

wōv bāŋí=∅ gbāñ'ad sī'əl sī'əm lā

like trap:SG=NZ seize:IPFV INDEF.IN INDEF.ADV ART

"like a trap seizes something" (Lk 21:35)

O pa'al ne'enam nyain tis sɔ' wɔsa on vɔ'vɔg ninkan kumin la zug.

Ò pà'al nē'-nám ñyāe ∅ tís sō' wōsā ón vō'vɔg nīn-kán

3AN show DEM.IN-PL clearly CAT give INDEF.AN all 3AN:NZ revive person-DEM.SG

kūmī=n lā zúg.

death=LOC ART upon.

"He has shown this clearly to everyone because he has raised that person from death." (Acts 17:31)

o na tvm tvmnyalima gaad dau kaŋa tvm si'el laa?

ò nā tōm tōvm-ñyālimá ∅ gàad dàu-kàŋá=∅ tòm sī'əl lāa=∅?

3AN IRR work work-grand:PL CAT pass man-DEMST.SG=NZ work INDEF.IN ART=PQ?

"Will he do miracles greater than this man has?" (Jn 7:31)

21.2.1 With indefinite pronouns

Relative clauses using indefinite pronouns as relatives are **internally headed**. The pronoun may be a head, as clause antecedent, or a dependent after a cb which is then the clause antecedent; in either case it remains *in situ* within the relative clause. It need not follow the verb directly.

Wina'am nodi'esidib n daa yel si'el n sob Wina'am gbaunin la, ane amena.

Wínà'am n̄ó-d̄ì'èsìdìb=n dāa yél s̄ì'əl n s̄ōb

God mouth-receiver:PL=NZ TNS say INDF.IN CAT write

Wínà'am gbáun̄v̄=n lā á né àmēḡá.

God book:SG=LOC ART COP FOC truly.

"What God's prophets said and wrote in God's book is true." (Mt 26:56, 1996)

... f̄v̄n yelim f̄v̄n niḡ li si'el.

... f̄v̄n yél̄im f̄v̄n n̄ìḡì=l̄i s̄ì'əl.

... 2SG.CNTR say:IMP 2SG:NZ do=3IN INDF.IN.

"... that you say where you have put it." (Jn 20:15)

The antecedent of a relative clause using an indefinite pronoun cannot be the subject in the relative clause, but may be a verb complement or adjunct. It may be a predependent in such constituents, or belong to a subordinate clause within the relative clause: elements following the pronoun thus cannot be taken as dependents of the entire relative clause.

Uncompounded pronouns which are not part of an AdvP usually remain specific-indefinite (exceptions in KB are Rev 2-3 of *man nyε s̄v' la* "the one I saw"):

Ka ban t̄v̄m s̄v' la kv̄ gaad onε t̄v̄m o la.

Kà b̄án t̄v̄m s̄v' lā k̄v̄ gāad ón̄ì t̄v̄mò=∅ l̄áa=∅.

And 3PL:NZ send INDF.AN ART NEG.IRR surpass REL.AN send=3AN ART=NEG.

"**One** who was sent does not surpass the one who sent him." (Jn 13:16)

M na tisif f̄v̄n b̄v̄v̄d si'el w̄v̄sa.

M̄ ná t̄is̄ī=f̄ f̄v̄n b̄v̄v̄d s̄ì'əl w̄s̄ā.

1SG IRR give=2SG 2SG:NZ want INDF.IN all.

"I will give you **anything** you want." (Mk 6:23)

Typically the pronoun is the complement of a verb of cognition, reporting, or perception, and/or the whole relative clause is, corresponding to an English "subordinate interrogative clause" (CGEL pp1070ff, pp972ff.) 20/33 examples of relative clauses with *s̄v'* in the 1996 NT are of this kind.

m na pa'ali ya on nwene sɔ'.

m̄ ná pā'alī=yá ón wēn nē sō'.

1SG IRR teach=2PL 3AN:NZ resemble with INDFAN.

"I will teach you **what** he is like." (Lk 6:47)

David da tvm sɔ' ye o bu'osi baŋ pu'a la an sɔ'.

David dá tòm sō' yé ò bŭ'osī_∅ báŋ pŭ'ā lá=∅ àñ sō'.

David TNS send INDFAN that 3AN ask CAT discover woman:SG ART=NZ COP INDFAN.

"David sent someone to ask and find out **who** the woman was." (2 Samuel 11:3)

ya na baŋ man yeI ye m an sɔ' la.

yà ná bāŋ mán yeI yé m̄ àñ sō' lā.

2PL IRR understand 1SG:NZ say that 1SG COP INDFAN ART.

"you will understand **who** I say that I am." (Jn 8:28)

Gɔsim ye fɔ na baŋ la'abama an sɔ' bunnεε?

Gòsìm yé fò ná bāŋ lá'-bàmmá=∅ àñ sō' búnnèε=∅?

Look:IMP that 2SG IRR understand item-DEMST.PL=NZ COP INDFAN thing:SG=PQ?

"Can you look and find out **whose** property these things are?" (Genesis 38:25)

Alaa mam me kv yeli ya mam nye nɔɔr la sɔ' san'ane.

Áláa mām mé kù yēlī=yá mán ñyē nōōr lā sō' sá'anē=∅.

Thus 1SG.CNTR also NEG.IRR say=2PL 1SG:NZ see mouth:SG ART INDFAN among=NEG.

"Thus I too will not tell you from **whom** I derived the authority." (Mt 21:27)

M na tvmi m Ba' zi'el nɔɔr sɔ' yela la tisi ya

M̄ ná tvmí_ m̄ Bā'=∅ zì'el nōōr sō' yélà_∅ tísì=yā.

1SG IRR send 1SG father:SG=NZ stand mouth:SG INDFAN about CAT give=2PL.

"I will send **whom** my Father made a promise about to you." (Lk 24:49)

... baŋi ba yaaname an sieba

... bāŋì_ bà yāa-námì=∅ àñ sīēbā

... understand 3PL ancestor-PL=NZ COP INDF.PL

"... discover **who** their ancestors were." (Ezra 2:61)

M mi' man gaŋ sieba la.

M̄ mī' mán gāŋ sīēbā lā.

1SG know 1SG:NZ choose INDF.PL ART.

"I know **those** whom I have chosen." (Jn 13:18)

Man mi' si'el nan anε bi'ela.

Mán mī' sī'əl nān á nē bī'əlá.

1SG:NZ know INDF.IN now COP FOC small.ADV.

"**What** I know now is small." (1 Cor 13:12)

Ón yèl sī'əl lā kā' sídāa=∅.

3AN:NZ say INDF.IN ART NEG.BE truth=NEG.

"**What** he says is not true" SB

Kem yeli Joon yaname wum ka nye si'el.

Kēm ∅ yēlī=∅ Joon yānámì wòm kà ñyē sī'əl.

Go:IMP CAT say=2PL.SUB John 2PL:NZ hear and see INDF.IN.

"Go and tell John **what** you have heard and seen." (Mt 11:4)

Ya baη man niη si'el la gbinnεε?

Yà báη mán niη sī'əl lā gbínnεε=∅?

2PL understand 1SG:NZ do INDF.IN ART meaning:SG=CQ?

"Do you understand the meaning of **what** I have done?" (Jn 13:12)

Most occurrences of *sī'əl^a* in the 1996 NT are as relatives. 75/130 cases in Matthew, Mark, Luke and John show *sī'əl^a*, the entire relative clause, or both as the complement of a verb of cognition, reporting, or perception. Of the remaining 55 examples, in 33 *sī'əl^a* consistently has an abstract uncountable meaning, shading into "whatever", often with *wōsā* "all"; in the other 22 *sī'əl^a* has the locative meaning "where, whither"; neither the pronoun nor the clause have the locative particle.

Bozugo ya araza'ase be si'el la, ya potenda me bene anina.

Bō zúgó yà àràzà'así=∅ bè sī'əl lā, yà pù-tēñdà mé bè né àní nā.

Because 2PL treasure=NZ EXIST INDF.IN ART, 2PL mind:PL too EXIST FOC there.

"For **where** your treasure is, your mind is too." (Mt 6:21, 1996)

One keη likin zi' on ken si'ela.

Ònì kēη līkī=n zī' ón kēn sī'əlā=∅.

REL.AN go darkness=LOC NEG.KNOW 3AN:NZ go:IPFV INDF.IN=NEG.

"He who walks in darkness does not know **where** he is going." (Jn 12:35, 1996)

Sī'əm^m is the corresponding indefinite adverbial form "somehow." As Kusaal frequently uses manner-adverbs as predicative complements, relative clauses with *sī'əm* are common as objects of verbs of cognition, reporting, and perception:

Kristo da kp̄ii ti yela la ke ka ti baŋ n̄ŋilim an si'em.

Kristo=∅ dà kp̄ii t̄i yēlá lā ké kà t̄i báŋ n̄ŋílím=∅ àñ s̄i'əm.

Christ=NZ TNS die 1PL about ART cause and 1PL realise love=NZ COP INDF.ADV
 "Christ dying for us makes us understand what love is like." (1 Jn 3:16)

The article *lā'* has its usual function with *s̄i'əm*-relative clauses:

M̄ m̄i' mán nà n̄ŋ s̄i'əm. "I know what to do."

1SG know 1SG:NZ IRR do INDF.ADV.

M̄ m̄i' mán nà n̄ŋ s̄i'əm lā.

1SG know 1SG:NZ IRR do INDF.ADV ART.

"I know what I'm to do" (WK: "You explained the plan earlier; this is my reply when you ask if I remember it")

In the 1976 NT almost all relative clauses with *s̄i'əm* and past tense marking have *lā'*; 75% lacking *lā'* have irrealis mood. Cf the two standing expressions

ón b̄òod s̄i'əm "as he wishes"

3AN:NZ want INDF.ADV

lín àñ s̄i'əm lā "as things are"

3IN:NZ COP INDF.ADV ART

Yèl^ε "say, tell" tends to take a *s̄i'əm*-relative clause with *lā* in its sense of "say, tell how something is" and without *lā* in the sense "say how to do something":

Bà yèl̄o=∅ b̄án n̄ŋ s̄i'əm lā.

3PL say=3AN 3PL:NZ do INDF.ADV ART.

"They told him what they'd done"

Bà nà yēl̄i=f f̄ón nà n̄ŋ s̄i'əm.

3PL IRR tell=2SG 2SG:NZ IRR do INDF.ADV.

"They'll tell you what to do."

Pà'al^ε "teach, inform" nevertheless takes a relative clause object without *lā*:

Bà pà'al̄o=∅ b̄án n̄ŋ s̄i'əm. "They informed him of what they'd done."

3PL inform=3AN 3PL:NZ do INDF.ADV.

Gàad^ε "pass, surpass" is used with a *s̄i'əm*-clause for comparing actions:

Mam tum bedegv gaad ban tum si'em la.

Mām tùm bédvǵō ∅ gâad bán tòm sī'əm lā.

1SG.CNTR work much CAT pass 3PL:NZ work INDF.ADV ART

"I've worked much harder than (how) they have." (2 Cor 11:23)

Gbāñ'e' "catch" is used with a *sī'əm*-clause for "decide what to do":

Ḥ gbāñ'e mán nà nīḡ sī'əm.

1SG seize 1SG:NZ IRR do INDF.ADV.

"I've decided what to do."

With verbs of doing, a *sī'əm*-relative clause can be a manner-adverb:

Bà nīḡ ón yèlì=bā sī'əm lā.

3PL do 3AN:NZ tell=3PL INDF.ADV ART.

"They did as he'd told them."

Sī'əm-relative clauses occur often as objects of *wōv* "like", *wēn*^{na/} "resemble"

...ka ya na ke ka nidib dɔl man wv ziḡgba'adibi gban'ad zimi si'em la.

...kà yà ná ké kà nīḡḡbā dɔl mán wōv zīḡ-gbāñ'adìb=∅

...and 3PL IRR cause and person:PL follow 1SG.CNTR like fish-catcher:PL=NZ

gbāñ'ad zīmí sī'əm lā.

catch:IPFV fish:PL INDF.ADV ART

"... you will make people follow me like fishermen catch fish." (Mt 4:19)

Hālí (là'am) nē "although" can take a *sī'əm*-clause for "despite how..." 15.

Relative clauses with an indefinite pronoun after a cb are uncommon; most cases involve *sī'a* with cbs expressing place or time. Where they do occur, they are not confined to specific indefinite meanings or subordinate interrogative types:

*Fvñ bɔɔd ye fɔ kv **dau sɔ'** la ya'a kpi...*

Fvñ bɔɔd yé fò kō dáu-sɔ' lā yá' kpi...

2SG:NZ want that 2SG kill man-INDF.AN ART if die...

"If the man **whom** you are seeking to kill dies ..." (2 Samuel 17:3)

*Nidib la da wum Yesu n tum **tuum sieba** ...*

Nīḡḡḡbā lā dá wòm Yesu=n tòm tùm-tūm-sī'əbā ...

Person:PL ART TNS hear Jesus=NZ work work-INDF.PL ...

"The people heard of the deeds that Jesus had performed..." (Mk 3:7, 1996)

Ban da kv ninsieba da ka' bi'elaa.

Bán dà k̄v n̄ñ-s̄jəbà dá k̄a' b̄j'əláa=∅.

3PL:NZ TNS kill person-INDF.PL TNS NEG.BE few=NEG.

"Those they had killed were not few." (1 Samuel 4:10)

Kem tv'vs Samaria na'abi tvm ninsieba la na ...

Kèm ∅ t̄v'vs Samaria ná'abí=∅ t̄vm n̄ñ-s̄jəbà lā nā ...

Go:IMP CAT meet Samaria king:SG=NZ send person-INDF.PL ART hither ...

"Go and meet the men sent by the king of Samaria ..." (2 Kings 1:3)

Tiig walaa bigisid lin an tisi'a.

Tiig wélà ∅ b̄j̄s̄id lín àñ tí-s̄j'á.

Tree:SG fruit:PL CAT show:IMPF 3IN:NZ COP tree-INDF.IN.

"It's the fruit of the tree that shows **what tree** it is." (Mt 12:33)

Ka bugum dit ten tita'asi'a la nyo'os dvt ne agol saha dine ka' benne.

Kà bùgúm=∅ d̄it t̄ɛŋ-t̄itá'-s̄j'á lā ñyô'os d̄vt né

And fire=NZ eat:IPFV land-big-INDF.IN ART smoke ascend:IPFV FOC

àgól s̄ahá d̄inì k̄a' b̄ɛnn̄=∅.

ADV:upwards time:SG REL.IN NEG.HAVE end:SG=NEG.

"The smoke of the great city which fire consumes goes up eternally." (Rev 19:3)

Nannanna, yaname daa sob gbaun si'a la ka m sobidi lebisidi ya.

Nānná-nā, yānámì dāa sōb gbáun-s̄j'á lá kà

Now, 2PL:NZ TNS write letter-INDF.IN ART and

m̄ s̄obidī ∅ l̄ɛb̄is̄idī=yá.

1SG write:IPFV CAT answer:IPFV=2PL.

"Now, it's the letter you wrote that I'm writing back to you about." (1 Cor 7:1)

42/56 of relative *s̄j'á* in the 1996 NT follow cbs referring to times or places:

M Zugsoaba, ti zi' fun ken zin'isi'a la.

M̄ Zūg-sóbā=∅, tì zī' fún k̄ɛn z̄iñ'-s̄j'á lāa=∅.

1SG Lord=VOC, 1PL NEG.KNOW 2SG:NZ go:IPFV place-INDF.IN ART=NEG.

"My Lord, we don't know where you are going." (Jn 14:5, 1996)

Ka bugum nie on be doog si'a la ni.

Kà bùgúm n̄jɛ ón bè d̄ó-s̄j'á lā ní.

And fire appear 3SG:NZ EXIST room-INDF.IN ART LOC.

"And fire illuminated the room where he was." (Acts 12:7, 1996)

Abraham da nan kae' saŋsi'a la, ka man pun be.

Abraham dá nàm kǎ'ɛ sǎn-sí'a lā, kà mǎn pún bɛ̀.

Abraham TNS still NEG.BE time-INDEF.IN ART, and 1SG.CNTR already EXIST.

"When Abraham still did not exist, I already existed." (Jn 8:58, 1996)

Indefinite pronouns as relatives may be omitted before ordinal expressions:

ka fɔn gban'e ziiŋ si'a yiiga la, fɔn ya'am o nɔɔr ...

kà fón gbǎñ'e zīŋ-sí'a yīigá lā, fɔn yá'am ò nɔɔr ...

and 2SG:NZ catch fish-INDEF.IN firstly ART, 2SG.CNTR open:IMP 3AN mouth:SG

"and the first fish you catch, open its mouth..." (Mt 17:27)

but *Paul n sob gbaun yiiga daan n tis Korint dim la nwa.*

Paul=ñ sɔb gbáun yīigá dāan n tís Korint díim lā_∅ ñwá.

Paul=NZ write letter:SG firstly owner:SG CAT give Corinth one.PL ART CAT this.

"This is **the first letter** which Paul wrote to the Corinthians." (NT heading)

21.2.2 With relative pronouns

The commonest type of relative clause begins with a relative pronoun as NP or NP predependent. In origin, these pronouns are short demonstrative pronouns followed by ñ. When the head is the subject of the relative clause, this produces the forms *ɔ̀nì kà̀nì lìnì bànì* (always written *one kanε line banε* in KB) where the final -i is due to liaison before the nominaliser, which is itself invariably realised ∅ in this case.

M̄ ñyɛ́ dáɥ-kà̀nì=∅ zàb nà'ab lā.

1SG see man-DEM.SG=NZ fight chief:SG ART

"I saw the man who fought the chief."

When the pronoun is not itself the subject of the relative clause one might expect the ñ to be absent and the pronoun to have the normal SF form. This indeed the case for WK, and commonly in the older NT versions too:

bàn kà nà'ab lā záb lā "those whom the chief fought" WK

DEM.PL and chief:SG ART fight ART

yikan ka mam Paul be la

yī-kán kà mām Paul bé lā

house-DEM.SG and 1SG.CNTR Paul EXIST ART

"the house where I, Paul, am" (Rom 16:23, 1976)

on buudi ka Jew dim kis

òn būudí kà Jew díim kīs

DEM.AN tribe:SG and Jew NULL.PL hate

"whose tribe the Jews hate" (Lk 10:33, 1996)

However, frequently even in older written materials, and almost invariably in KB, the pre-liaison forms are generalised to these cases too:

gbauŋ kanɛ ka dau la sɔb la

gbàuŋ-kàn kà dāu lā sɔb lā

letter-DEM.SG and man:SG ART write ART

"the letter which the man has written"

dau kanɛ yadda niŋiri pɔ zu'oe

dāu-kànì yàddā-níŋìrì=∅ pō zú'e

man-DEM.SG assent-doing:SG=NZ NEG.IND become.great

"a man whose faith is not great..." (Mt 14:31), with the nominaliser *twice*

It is thus best to regard *òn kàn lìn bàn* synchronically simply as subordinating relative pronouns. Where *òn kàn lìn bàn* do appear as heads of relative clauses they will be regarded as allomorphs of these relative pronouns:

Ì ñyé dāu-kànì zàb nà'ab lā.

1SG see man-REL.SG fight chief:SG ART

"I saw the man who fought the chief."

bàn kà nà'ab lā zàb lā "those whom the chief fought."

REL.PL and chief:SG ART fight ART

Toende Kusaal shows the same development (nominaliser-*ñ* is *ne* in Toende):

N sa nye buraa kanne da da'a gbana la.

"I saw the man who bought the book." (Abubakari 2011)

N sa nye buraa kanne ka Ayi da nye la.

"I saw the man that Ayi saw." *ibid*

If the antecedent is the subject within a relative clause, or a predependent of the subject, a relative pronoun must be used:

bàni zàb nà'ab lā "those who fought the chief"
REL.PL fight chief:SG ART

M̄ ñyé dáy-kàni zàb nà'ab lā.
1SG see man-REL.SG fight chief:SG ART
"I saw **the man who** fought the chief."

nimbane *yuda sɔb Pɛbil la gbaɥɥɔn line an nyɔvɔpaal dim gbaɥɥ la*
n̄n-bàni yūdá sɔb Pē-bɪl lā gbáɥɥ̄=n línì
person-REL.PL name:PL write sheep-small:SG ART book:SG=LOC REL.IN
àn ñyó-v̄-paal díim gbáɥɥ lā
COP breath-alive-new:SG NULL.PL book:SG ART
"those whose names are written in the Lamb's book of new life" (Rev 21:27)

A relative pronoun can also relativise a complement or adjunct, or antecedent extracted from a prepositional phrase or subordinate clause. The antecedent is preposed with *kà* with a resumptive pronoun in any gap left by extraction, for an indirect object, or occasionally for a human-reference direct object. There is no foregrounding sense. Such constructions are commoner than indefinite pronouns as relatives, except with clauses used adverbially or of subordinate interrogative type.

Gbaɥɥ kane *ka Jerusalem kpeenmnam daa sob la nwa.*
Gbàɥɥ-kàni kà Jerusalem kpêẽnm-nàm dāa sɔb lā_ø ñwá.
Letter-REL.SG and Jerusalem elder-PL TNS write ART CAT this.
"This is the letter that the elders of Jerusalem wrote." (Acts 15:23, 1996)

m antu'a line [1996 lin] *ka ba mɔr na*
m̄ àntù'a lìnì kà bà mɔr nā
1SG case REL.IN and 3PL have hither
"the charge they are bringing against me" (Acts 25:11)

yeltɔɔd ayɔpɔi banɛ *ka maliaknama ayɔpɔi mɔr la*
yēl-tɔɔd àyɔpɔɛ bání kà màlìāk-námá_àyɔpɔɛ mɔr lā
matter-bitter:PL NUM:seven REL.PL and angel-PL NUM:seven have ART
"the seven plagues which the seven angels have" (Rev 15:8)

niɣkanɛ [1996 niɣkan] *ka ba gban'e o la*
n̄n-kání kà bà gbáñ'o=ø lā
person-REL.SG and 3PL seize=3AN ART
"a person **whom** they have seized" (Acts 25:16) (human VP object)

Bōrā-sō' dāa bé ànīnā, òn kà mān nē òn dāa tóm lā.
 Man-INDFAN TNS EXIST ADV:there, RELAN and 1SG with 3AN TNS work:IPFV ART.
 "There was a man there **whom** I used to work **with**." ILK

Onε ka ba tis o ka li zu'oe, ba me mōr pōten'er ye o na lēbis linε zu'oe.
Ònì kà bà tísò=∅ kà lì zú'e, bà mē mōr
 RELAN and 3PL give=3AN and 3IN become.much, 3PL also have
pú-tēñ'er yé ò nà lēbīs línì zù'e.
 mind:SG that 3AN IRR return REL.IN become.much.

"**Whom** they have given much **to**, they expect he will return much." (Lk 12:48)

nimbane ka ya ten'es ye ba anε tuongatib la
nīn-bánì kà yà tēñ'es yé bà à nē tūon-gātīb lā
 person-REL.PL and 2PL think that 3PL COP FOC ahead-passer:PL ART
 "those **whom** you consider to be leaders" (Gal 2:6)

linε [1996 lin] ka Kristo bōod ye ti pian' la
lìnì kà Kristo bōod yé tì pīāñ' lā
 REL.IN and Christ want that 1PL speak ART
 "**what** Christ wishes us to say" (2 Cor 12:19)

If the antecedent is a predependent in an NP which is not the subject, that entire NP is preposed, but obviously no resumptive pronoun is needed:

Samaritan nid (on buudi ka Jew dim kis)
Samaritan níd, òn būudí kà Jew díim kīs
 Samaritan person:SG RELAN tribe:SG and Jew NULL.PL hate
 "a Samaritan, **whose** tribe the Jews hate" (Lk 10:33, 1996)

bikanε [1996 biig kan] puvg ka o mōr la
bì-kànì pūvg kà ò mōr lā
 child-REL.SG belly:SG and 3AN have ART
 "the child **which** she is pregnant with [whose belly she has]" (Mt 1:20)

Relative clauses with locative reference do not take the locative *nī'*:

yikan ka mam Paul be la yidaan
yī-kán kà mām Paul bé lā yí-dāan
 house-REL.SG and 1SG.CNTR Paul EXIST ART house-owner:SG
 "the owner of the house where I, Paul, am" (Rom 16:23, 1976)

22 Complementised clauses

Complementised clauses are usually introduced by the clause linker *yē*. They also appear with *kà*, but much less often, and never exclusively; constructions which only permit *kà* and never *yē* must be coordination or catenation. Complementised clauses follow any catenated clauses. They can be coordinated with *kà*:

ka lin ane ye fv kv maali ti be'ede nwenε tiname daa pv maalif be'ed si'em la asee sv'vm ma'aa, ka ye fv yim ne sumbuɠusvm la.

kà līn á nē yé fò kò mālī=tí bē'edī ∅ *wēn nē*

and 3IN.CNTR COP FOC that 2SG NEG.IRR make=1PL bad CAT resemble with

tīnámì dāa pō málì=f bē'ed sī'əm lá àséε sòm má'aa,

1PL:NZ TNS NEG.IND make=2SG bad INDF.ADV ART except good only

kà yé fò yīm nē súmbōɠusím lā.

and that 2SG emerge:IMP with peace ART.

"Which is that you will not do us harm, as we did not do you harm but only good, and that you will depart in peace." (Genesis 26:29)

22.1 Purpose clauses

Purpose clauses lack independency marking and have imperative mood. As there is no *-ma* flexion, the mood is apparent only in the use of *dā* as the negation particle. The term "purpose clause" is convenient but such clauses are also used as complements of verbs expressing necessity and permission, and the meaning is sometimes attenuated from "so that" to merely "until."

Purpose clauses may be VP adjuncts:

Bà tìsō=∅ kù'əm yé ò nū.

3PL give=3AN water that 3AN drink.

"They gave him water to drink. ("So that he might drink it.")

Ì ná tī=f tīm yé fò nīf dā zábē=∅.

1SG IRR give=2SG medicine that 2SG eye:SG NEG.IMP fight=NEG.

"I'll give you medicine so your eye won't hurt."

Ò vùl tīm kà ò nóbìr dā zábē=∅.

3AN swallow medicine and 3AN leg:SG NEG.IMP fight=NEG.

"She took medicine so her leg wouldn't hurt." WK

Ka ba gban'e ba kpen'es sanrega ni ye beog nie.

Kà bà gbáń'a=bā_∅ kpêñ'es sārīgá nì yē bēog níe.

And 3PL seize=3PL CAT put.in prison:SG LOC that morning appear.

"They seized them and put them in prison until tomorrow came." (Acts 4:3)

Purpose clauses can be coordinated without repetition of *yē*:

Ṁ bôɔd yē dāy lā kēŋ dâ'a=n, kà pɔ'ā lā dōg dīb.

1SG want that man:SG ART go market:SG=LOC, and woman:SG ART cook food.

"I want the man to go to market and the woman to cook food." WK

Purpose clauses appear as complements of particular verbs, e.g *bôɔd*^a "want"; or *yèl*^ε "tell." Negative raising occurs with *bôɔd*^a but not with *yèl*^ε.

Ṁ bôɔd yé ò kûl. "I want her to go home."

1SG want that 3AN go.home.

Ṁ p̄ bôɔd yé ò kûl̄=∅.

1SG NEG.IND want that 1SG go.home=NEG.

"I don't want [me] to go home."

Ṁ yéḻ=f yé fò dā kûl̄=∅.

1SG tell=2SG that 2SG NEG.IMP go.home=NEG.

"I've told you not to go home."

The verb *gūr*^{a/} "be on guard, watch, wait for" in the sense of "waiting for an event" may take as complement either a NP headed by gerund, or a purpose clause introduced by *yē*, again with an attenuated sense:

Nidib la daa gur Zakaria yiib na.

Nīdīb lā dāa gūr Zakaria yīb nā.

Person:PL ART TNS watch Zechariah emerge:GER hither.

"The people were watching for Zechariah's coming out." (Lk 1:21)

... gur ye pu'a la du'a ka o ɔnb biig la.

... gūr yē pɔ'ā lā dɔ'á kà ò ɔñb bīig lā.

...watch that woman:SG ART bear and 3AN eat child:SG ART.

"...waiting for the woman to give birth so he could devour her child." (Rev 12:4)

Purpose-clause complements follow expressions of **necessity** or **permission** such as *nār^a* "be obliged to" (negated "be obliged not to"); *mōr sūer* "be allowed to"; *lì à [nē] tīlās* "it is necessary":

Fù pō nār yé fù nīη àláa=∅.
2SG NEG.IND must that 2SG do ADV:thus=NEG.
"You're not allowed to do that."

Lì nār yé/kà fù kūl. "You must go home."
3IN must that/and 2SG go.home.

In KB there are 258 examples of *nar ye* to 45 of *nar ka*.

Yà mór sūer yé yà kūl. "You may go home."
2PL have way:SG that 2PL go.home.

Sūer bé yé/kà tì kūl. "We may go home."
Way:SG EXIST that/and 1PL go.home. (" There's a way that we go home.")

Li ane tilas ye m keη Jerusalem.
Lì à nē tīlās yé m kēη Jerusalem.
3IN COP FOC necessity that 1SG go Jerusalem.
"I must go to Jerusalem." (Mt 16:21, 1996)

Li ane tilas ka m niηid ala.
Lì à nē tīlās kà m nīηid àlá.
3IN COP FOC necessity and 1SG do:IPFV ADV:thus.
"I must do that." (1 Cor 9:16, 1996); there are no examples with *kà* in KB

Nār^a is occasionally used in a personal construction "deserve that":

babayi' la nar ye ba kuv ba
bà bàyí' lā nár yé bà kúv=bā
3PL NUM:two ART must that 3PL kill=3PL
"both of them must be killed" (Leviticus 20:12)

Anō'one nar ka na nyaηi lak titabir la ...
Ánó'onì_∅ nár kà ná ñyāñī_∅ lāk tītābīr lā ...?
Who CAT must and IRR prevail CAT unstick glue ART ...?
"Who is worthy to open the seal ...?" (Rev 5:2)

22.2 Content clauses

Complementised clauses with independency marking 16.6 on the VP are content clauses. They are downranked main clauses, and show all the structural features possible for main clauses. They occur very frequently representing passages of indirect speech, but are also found much more generally after verbs of cognition, reporting, and perception, such as *yèl*^ε "say", *wòm*^m "hear", *ñyē* "see", *tēñ'es*^{ε/} "think", *mī* "know", *zī* "not know", *bàŋ*^ε "come to know", *pà'al*^ε "teach, show", *kàrìm*^m "read", *sjàk*^ε "agree." Various main-clause features appear in e.g.

ban mi' ye biig la kpine la zug

bán mī' yē bīig lā kpí nē lā zúg

3PL:NZ know that child:SG ART die FOC ART upon

"because they knew that the child was dead" (Lk 8:53): focus-*nē*'

Bòŋ-bāñ'ad zī' yē tēŋ tóllā=∅.

Donkey-rider:SG NEG.KNOW that ground:SG be.hot=NEG.

"The donkey-rider doesn't know the ground is hot."

Tone overlay: *Tēŋ tól.* "The ground is hot." cf *tōl*^{la/} "be hot"

Fvne siak ye fv ya'a ti kae, o na zin'ini fv na'am gbauŋ la zugoo?

Fvni ∅ sják yé fù yá' tì ká'ε, ò nà zīñ'iní fù nā'am

2SG.CNTR CAT agree that 2SG if after NEG.BE, 3AN IRR sit 2SG chieftaincy

gbáŋ lā zúgoo=∅?

skin:SG ART upon=PQ?

"Did you agree that when you are no more, he will sit on your throne?"

(1 Kings 1:24): *yá'*-clause postlinker adjunct

Absolute clauses 21.1 cannot be used as objects of such verbs, but another possibility apart from content clauses is NP + *yēlá* "about."

Except in indirect speech (see below), content clauses are usually declarative. There are exceptions, possibly characteristic of verbs of opinion and judgment:

Ya tenes ka m aan anɔ'ɔne?

Yà tēñ'es kà m áañ ànɔ'ɔnè=∅?

2PL think and 1SG COP who=CQ?

"Who do you think I am?" (Acts 13:25)

WK usually has *yē* before content clauses, but prefers *kà* after *tēñ'es*^{ε/} "think." KB has 219 examples of *tenes ye* to 31 of *tenes ka* and shows *kà* after other verbs too:

Ya pvn wvm ka ba da yel ye...

Yà pún wòm kà bà dá yèl yē ...

2PL previously hear and 3PL TNS say that...

"You previously heard that they had said ..." (Mt 5:43)

Kà + content clause is the only context where *kà* is followed by independency marking, and where *kà* does not delete a following subject pronoun with the same reference as the preceding subject:

Ṁ tēñ'es kà m̀ lú yā. "I think I've fallen" WK

1SG think and 1SG fall PFV.

There are a few examples in KB of *nε* for *yε yē* "that" (cf Mampruli *ni id*):

Man bɔɔdin nε yaname naan aan ma'asiga bεε yaname naan aan tvvliga.

Mān bóɔdī=n nē yānámì nāan āa=n mā'asígā bēε

1SG.CNTR want=DP that 2PL:NZ then COP=DP cold:ADV or

yānámì nāan āa=n tvvligā.

2PL:NZ then COP=DP hot:ADV.

"I might wish you had been cold or you had been hot." (Rev 3:15)

The verb *yèl* is frequently ellipted before *yē*:

Ka Zugsoɔb la ye ... "And the Lord said: ..." (Genesis 18:28)

Kà Zūg-sób lā yē ...

And Lord ART that ...

Pronouns are changed throughout in the content clause to reflect its setting, on the same basis as in English "indirect speech." The free 3rd person pronouns have **logophoric** sense. In contexts where bound pronouns could have occurred instead (i.e. where they are contrastive) they replace 1st persons of the original utterance:

Festus tans Paul ye o geem ne ... ka Paul lebis ye on pu geem.

Festus táñs Paul yé ò gèēñm nē ... kà Paul lébìs

Festus shout Paul that 3AN go.mad FOC ... and Paul reply

yē òn p̄v géeñmm=∅.

that 3AN.CNTR NEG.IND go.mad=NEG.

"Festus shouted to Paul that he [Paul] was mad ...

Paul replied that he [Paul] was not mad." (Acts 26:24-25, 1976)

Bound 3rd persons may also have this sense, but the free pronouns are much commoner as subjects. Thus "He₁ said he₁ would kill them." is usually

Ò yèl yē ɔn ná kúv=bā.
3AN say that 3AN.CNTR IRR kill=3PL.

It is possible to say *Ò yèl yé ò nà kúv bā*, but this is much more likely to mean "He₁ said he₂ would kill them."

Tense and mood marking is always the same as in the equivalent main clause. Pluperfect and future-in-the-past meanings may result:

Ò dāa yél yé bà dāa kūl.
3AN TNS say that 3PL TNS go.home.
"She said that they had gone home."

Tì dāa tēñ'es yé ò nà zāb nā'ab lā.
1PL TNS think that 3AN IRR fight chief:SG ART.
"We thought he was going to fight the chief."

22.2.1 Reported speech

After a speech-verb *yē* may introduce the words of the speech itself, unaltered except for "resumptive" *yē* at intervals (see below.) This is uncommon in older texts, and in the 1976 NT is mostly confined to utterances of Jesus. Usually the original speech is downranked to a content clause or series of coordinated content clauses, with personal pronouns altered throughout as in English indirect speech, and free personal pronouns used logophorically. All other features of the original main clauses, including tense marking and independency marking, are unchanged. Such passages of indirect speech may be kept up for very long stretches; the 1976 NT version has examples extending over several pages. Later Bible versions consistently replace all indirect speech with direct.

Indirect speech may include questions and commands:

Ka Peter bu'os o ye, Ananias, ye bo ka o ke ka Sutaana kpen' o suunrin...
Kà Peter bŭ'əsó=∅ yē Ananias, yē bó kà ò ké kà Sŭtáanà
And Peter ask=3AN that Ananias, that what and 3AN cause and Satan
kpèñ' ò sūuñrí=n ... ?
enter 3AN heart:SG=LOC ... ?
"Peter asked him: Ananias, why did you let Satan enter your heart ...?"
(Acts 5:3, 1976)

In indirect commands the usual deletion of a 2nd sg subject and change of 2pl subject to postposed *y^a* does not occur, even if the addressee is the same as in the original utterance and the pronoun remains 2nd person. Some speakers keep the postposed *y^a* after the verb even when there is a preceding pronoun subject.

Indirect speech is an alternative to catenation with *kē* 19.2 for expressing third/first person commands; main clause and linker may again be ellipited informally:

[*M̄ yél yé*] ò *gòsìm tēṅī=n*.
1SG say that 3AN look:IMP ground:SG=LOC.
"[I said] she should look down."

[*M̄ tēñ'es kà*] *tì pú'vsìm Wínà'am*.
1SG think and 1PL greet:IMP God.
"[I think] we should praise God."

A main clause with no VP can also appear in indirect speech:

Ò *yèl yē Báp*. "She said *Bap!*"
3AN say that Bap.

Pronouns are changed even within a vocative:

Ka m wum Wina'am kokor ka li yi arazana ni na ye,
o nidiba, ye ba yimi teng la ni na.
Kà m̄ wóm Wínà'am kókór kà lì yī áràzánà ní nā yē,
And 1SG hear God voice:SG and 3IN emerge heaven LOC hither that
ò nīdibá=∅, yé bà yìmī=∅ tēṅ lā ní nā.
3AN person:PL=VOC, that 3PL emerge:IMP=2PL.SUB land:SG ART LOC hither.
"And I heard God's voice coming from heaven, saying
'**My** people, come out of the land!'" (Rev 18:4, 1976)

Passages of direct or indirect speech longer than two or three clauses insert **resumptive yē** at intervals of roughly every third clause, after any prelinker adjuncts but before clause-linker *kà*:

amaa ye ba yaanam da pu bood ye ba siak o noore
àmáa yé bà yāa-nám dá pū bōod yé bà sjàkò=∅ nōoré=∅.
but that 3PL ancestor-PL TNS NEG.IND want that 3PL agree=3AN mouth:SG=NEG
"But their ancestors did not want to obey him" (Acts 7:39, 1976)

Ye ka Paul yel ye o bood ye o kpelim sarega ni.

Yé kà Paul yél yé ò bòòd yé ò kpélim sārīgá nì.

That and Paul say that 3AN want that 3AN remain prison:SG LOC.

"But Paul said he wanted to remain in prison...(Acts 25:21, 1976)

Amaa **ye ka** on yeli ba ye ...

Àmáa yé kà òn yéì=bā yē...

But that and 3AN.CNTR say=3PL that...

"But he [the speaker] had said to them ..." (Acts 25:16, 1976)

Alazug **ye ka** on ke ka ba mor o ba sa'an na ...

Àlá zùg yé kà òn ké kà bà mōró=∅ bà sā'an nā ...

Thus that and 3AN.CNTR let and 3PL have=3AN 3PL before hither...

"So he [the speaker] had made them bring him [Paul] into their presence..."

(Acts 25:26, 1976)

Resumptive *yē* may be placed between a postlinker adjunct and the subject, or between a vocative and the following clause:

Ka nanana **ye** o niŋi ba Wina'am ne o popielim pia'ad la nu'usin...

Kà nānná-nā yé ò niŋī=bá Wínà'am né ò pù-pìèlim

And now-hither that 3AN do=3PL God with 3AN holiness

pḡâñ'ad lā nú'usī=n...

speech ART hand:PL=LOC...

"And now he committed them to God and the words of his holiness.."

(Acts 20:32, 1976)

O zuanam ne o saamnama, **ye** ba kelisim.

Ò zḡà-nàm né ò sàam-nàmā=∅, yé bà kèlìsìm!

3AN friend-PL with 3AN father-PL=VOC that 3PL listen:IMP!

"His friends and his fathers should listen." (Acts 7:2, 1976)

23 Negation

Negation is marked in the VP 16.5, inducing a clause-final negative clitic 4.1. The negative prosodic clitic follows all subordinate clauses:

Ti pu bɔɔd ye dau kaŋa aan ti na'aba.

Tì p̄ b̄ɔɔd yē dáɣ-kàŋā áaŋ̀ tì nà'abā=∅.

1PL NEG.IND want that man-DEMST.SG COP 1PL king:SG=NEG.

"We don't want this man to be our king." (Lk 19:14)

I have no unequivocal examples of negative clitics preceding subordinate clauses to exclude them from the scope of negation. Thus the adjunct *yē*-clause has probably been dislocated in:

Nidib be ka pu tum si'ela ye ba a popielim dim...

Nīdīb bē kà p̄ túm s̄'əlā=∅ yē bà áŋ̀ p̄-ɣ̄əl̄im d̄im

person:PL EXIST and NEG.IND work:IPFV INDEF.IN=NEG that 3PL COP holiness NULL.PL.

"There are people who haven't done anything that they become blessed"

(Rom 4:5, 1976); revised completely in the 1996 version.

Here the *kà*-clause can be taken as coordinate, carrying on the narrative:

Ka li pu yuugε ka o pu'a me kena.

Kà l̄i p̄ yúugē=∅, kà ò p̄'ā mé kē nā.

And 3IN NEG.IND delay=NEG, and 3AN wife:SG also come hither.

"Not much later, his wife came too." (Acts 5:7)

Negative clitics are omitted after *ñ*-clauses containing a negative unless they both lack articles and are clause-final within the main clause, and likewise with VPs nominalised by the personifier particle:

Nñn-báni p̄ dít ná kp̄.

Person-REL.PL NEG.IND eat:IPFV IRR die.

"People who don't eat will die." WK

Ḿ ñyé nñn-báni p̄ dítā=∅.

1SG see person-REL.PL NEG.IND eat:IPFV=NEG.

"I've seen some people who don't eat." WK

Apozotyel da ane o saam biig ma'aa.

À-Pv̄-zót-yēl dá à né ò sàam bìig mà'aa.

PERS-NEG.IND-run:IPFV-thing:SG TNS COP FOC 3AN father:SG child:SG only

"Fears-nothing was his father's only child." KSS p35

Clauses with *yà'* "if" keep their own negative clitics:

Ba ya'a pv̄ niḡ si'ela, o pv̄'v̄sim d̄oḡ la na lieb zaalim.

Bà yá' p̄v̄ níḡ sī'elā=∅, ò p̄v̄'v̄sīm d̄oḡ lā ná l̄ēb zāalīm.

3PL if NEG.IND do INDF.IN=NEG 3AN worship house:SG ART IRR become empty:ABSTR.

"If they don't do anything, her temple will become of no account." (Acts 19:27)

Negative raising takes place with complement clauses after verbs expressing opinions or judgments, but not verbs of knowing or informing:

Li pu nar ye fu di fu ba'abiig po'a Herodiase.

Lì p̄v̄ nār yé f̄ù dí f̄ù bā'-b̄iḡ p̄v̄'á Herodiasε=∅.

3IN NEG.IND must that 2SG take 2SG father-child:SG wife:SG Herodias=NEG.

"It's not right for you to marry your brother's wife Herodias." (Mt 14:4, 1996)

Ti pv̄ b̄oḡd ye dau kaḡa aan ti na'aba.

Tì p̄v̄ b̄oḡd yē d̄áḡ-kàḡā áañ tì nà'abā=∅.

1PL NEG.IND want that man-DEMST.SG COP 1PL king:SG=NEG.

"We don't want this man to be our king." (Lk 19:14)

mam pv̄ ten'es ye o na keligi m pian'ade.

Mām p̄v̄ tēñ'es yé ò nà kēlígí ḡm p̄iàñ'adē=∅.

1SG NEG.IND think that 3AN IRR listen 1SG word:PL=NEG.

"I do not think that he will listen to my words." (Job 9:16)

vs *linzug ka ti baḡ ye o pv̄ yi Wina'am san'an naa.*

Lìn-zúḡ kà tì báḡ yé ò p̄v̄ yī Wínà'am s̄á'an náa=∅.

Therefore and 1PL realise that 3AN NEG.IND emerge God with hither=NEG.

"Therefore we realise he has not come from God." (Jn 9:16)

ka o lēe pv̄ baḡ ye li ane one.

kà ò léē p̄v̄ báḡ yé l̄ì à nē ònē=∅.

And 3AN but NEG.IND realise that 3IN COP FOC 3AN.CNTR=NEG.

"but she didn't realise it was him." (Jn 20:14)

Constituent negation can be achieved by clefting, using *Lì k̄a' X kà/n ...* "It's not X that ..." or X *ká'g kà/n ...* "There's no X that ...", or with relative clauses:

Sogia so' kae' n tum ka yood o meḡa.

Sógià-sō' k̄a'e n tóm kà yōōd ò mēḡá=∅.

Soldier-INDF.AN NEG.BE CAT work:IPFV and pay:IPFV 3AN self=NEG.

"No soldier works and pays for himself." (1 Cor 9:7, 1976)

Di len ka' fvn yel si'el la zug, ka ti niḡ o yadda.

Lì lēm k̄a' fún yèl sī'el lā zúg kà tì niḡò=∅ yáddáa=∅.

3IN again NEG.BE 2SG:NZ say INDF.IN ART upon and 1PL do=3AN assent=NEG.

"It is no longer because of what you said that we believe in him." (Jn 4:42)

... ka zan'as banε ka' Kristo nidib la svḡir.

... kà zāñ'as bánì k̄a' Kristo níḡìb lā sḡḡìr.

... and refuse REL.PL NEG.BE Christ person:PL ART help:GER.

"... and refused the help of non-Christians." (3 Jn 1:7)

The AdvP *báa bī'elá* "not at all" and the NP postdependent *báa yīnní* "not one" (Hausa *bâa* "not exist") are used along with negative VPs:

Da tvmi si'el baa bi'elaa.

Dā tvmī=∅ sī'el báa bī'eláa=∅.

NEG.IMP work=2PL.SUB INDF.IN at.all=NEG.

"Do no work at all." (Leviticus 23:31)

Amaa ba pv nyaḡi nye line tu'al baa yinne.

Ámáa bà p̄v ñyāḡī ∅ ñyē línì tò'al báa yīnní.

But 3PL NEG.IND prevail CAT find REL.IN condemn [NEG] not one.

"But they couldn't find anything condemning, not one thing." (Mt 26:60)

Ka nid baa yinne pv yel ye ...

Kà nīd báa yīnní p̄v yél yē ...

and person:SG not one NEG.IND say that ...

"Not one person said ..." (Acts 4:32)

Fv du'adib baa yinne kae ka o yv'vr buon alaa.

F̀v̀ d̀v̀'ad̀ib̀ báa yīnní k̄a'e kà ò yv'vr̀ búeǹ àláa=∅.

2SG relative:PL not one NEG.BE and 3AN name:SG call:IPFV ADV:thus=NEG.

"Not one of your relatives is named thus." (Lk 1:61)

24 Information packaging

24.1 Focus

According to Lambrecht 1994: "[Focus] is the UNPREDICTABLE or pragmatically NON-RECOVERABLE element in an utterance. The focus is what makes the utterance into an assertion." A further distinction will be made between **ordinary** and **contrastive focus**. Main clauses without any special syntactic marking of focus have ordinary focus on the predicate by default.

Focus is distinct from **foregrounding**, the usual function of it-clefting in English; foregrounded elements need not be focussed (CGEL p1424.)

24.1.1 Subjects

In subject focussing the subject stands first, with the rest of the clause introduced by catenator-*n*. The clause lacks independency marking but has independent tense marking. The construction presumably arose by ellipsis from *n*-clefting [24.2](#), but the meaning is *focus* rather than foregrounding:

Wáafv̄ ∅ *dúmō*=∅. "A snake bit him." WK
Snake:SG CAT bite=3AN.

would be a felicitous reply to "What's happened?" as well as "Did a dog bite him?"

Focus-*nē*' in all its roles is excluded from clauses which are *n*-focussed, with the corresponding VP aspect distinctions present but unmarked:

Ṁ zūgv̄ ∅ *zábìd*. "My head is hurting."
1SG head CAT fight:IPFV. (Reply to "Where is the pain?")

cf *Ṁ zūg lā pú'alìm nē*. "My head is hurting."
1SG head ART damage:IPFV FOC. (Reply to "What's the matter with you?")

Interrogative pronouns as subjects are always *n*-focussed:

Ànó'òní ∅ *kābírídà*=∅?
Who CAT ask.for.entry:IPFV=CQ?
"Who is asking permission to enter?"

As clauses containing interrogative pronouns may not contain focus-*nē*', this is most readily explained by taking interrogative pronouns as intrinsically focussed, though this is only syntactically manifested when they are subjects.

M̄ yí nē Bók. "I come from Bawku." SB
1SG emerge FOC Bawku.

but *Meeri one yi Magdala* "Mary who came from Magdala"
Meeri ónì yī Magdala (Mk 16:9, 1996)
Mary REL.AN emerge Magdala

Focus-*nē'* can occur in complementised clauses, including purpose clauses:

Pian'am ka m bōd ye fū nyēnē bōd.
Pìāñ'am kà m̄ bōd yé fū ñyē nē bōd.
Speak:IMP and 1SG want that 2SG see FOC innocence.
"Speak, for I want you to be vindicated." (Job 33:32)

Content questions:

Bó kà fū kóm̄mà=∅? "Why are you crying/do you cry?"
What and 2SG cry:IPFV=CQ?

Fù nī̀nìd b́=∅? "What are you doing/do you do?"
2SG do:IPFV what=CQ?

Fù wá'e yáa=∅? "Where are you going/do you go?"
2SG go where=CQ?

Bùgóm̄ lā yít yáa ní ná=∅?
Fire ART emerge:IPFV where LOC hither=CQ?
"Where is the light coming from?" SB

M̄ á nē dāy. "I am a man."
1SG COP FOC man:SG.

but *Mām áñ b́=∅?* "What am I?"
1SG.CNTR COP what=CQ?

Fù áañ_ànó'ónè=∅? "Who are you?"
2SG COP who=CQ?

Fù bōd b́=∅? "What do you want?"
2SG want what=CQ?

M̄ p̄w dá' b̀̀n̄ā=∅. "I haven't bought a donkey."
1SG NEG.IND buy donkey:SG=NEG.

M̄ p̄w dá' n̄ē b̀̀n̄ā=∅. "I haven't bought a donkey."
1SG NEG.IND buy FOC donkey:SG=NEG. ("I bought something else.")

Definite objects/predicative complements normally have old-information status, making the ordinary-focus sense of "unpredictable or pragmatically non-recoverable" unlikely; hence *n̄ē'* before a definite object is usually aspectual:

N̄īgí lā ǒn̄b̀̀d n̄ē m̄ōd lā.
Cow:PL ART chew:IPFV FOC grass:PL ART.
"The cows are eating the grass."

Nā'-s̄íəbà ǒn̄b̀̀d n̄ē m̄ōd lā.
Cow-INDEF.PL chew:IPFV FOC grass:PL ART.
"Some cows are eating the grass."

If focus does occur with old-information arguments, it is **contrastive**.

Line ka ba'amaannib maanne tisid bada la, ba maanne tisid n̄ē kikiris, ka pu maanne tisid Wina'am.

L̀̀n̄ì kà bà'-māannīb m̄āannì ∅ t̄is̄ìd bádà lā, bà m̄āannī ∅ t̄is̄ìd n̄ē kíkīrīs kà p̄w m̄āannì ∅ t̄is̄ìd Wīnā'amm=∅.
REL.IN and idol-sacrificer:PL sacrifice:IPFV CAT give:IPFV idol:PL ART 3PL sacrifice:IPFV
CAT give:IPFV FOC fairy:PL and NEG.IND sacrifice:IPFV CAT give:IPFV God=NEG.

"That which idol-worshippers sacrifice to an idol, they sacrifice to *demons* and they don't sacrifice to God." (1 Cor 10:20)

The predicative complement of *àḡēñ^{va}* "be something/somehow" in its ascriptive sense [16.12](#) is non-referring and prototypically "unpredictable or pragmatically non-recoverable", and therefore is naturally preceded by *n̄ē'* for **ordinary** focus:

Ò à n̄ē b̄īg. "She is a child."
3AN COP FOC child:SG.

Ò dāa á n̄ē b̄īg. "She was a child."
3AN TNS COP FOC child:SG.

D̄īb á n̄ē b̄ōn-s̄úḡ. "Food is a good thing."
Food COP FOC thing-good:SG.

Ò à nē bāāñlím. "She is quiet."
3AN COP FOC quiet:ABSTR.

Lì à nē bōgvśīgā. "It's soft."
3IN COP FOC soft:ADV.

While such complements are characteristically indefinite, this is not invariable; the non-recoverability may instead lie in the internal structure of the complement:

Ka bumbvuda banε lu gɔn'ɔs svvgin la anε banε wvm pian'ad la ...

Kà bōn-búvdà bānì lù gòñ'ɔs sùvgv̄=n lā á nē
And thing-planting:PL REL.PL fall thorn:PL among=LOC ART COP FOC

bānì wòm pìàñ'ad lā ...

REL.PL hear speech ART ...

"And the seeds which fell among thorns are those who heard the word ..."
(Lk 8:14, explaining the meaning of the parable)

Biis la diemid nε dua gbinin. Ba zamisid nε bula wa'ab. Ba anε Apam biis.

Bīis lā dī'əmìd nē dúañ gbínnī=n. Bà zàmìsìd nē

Child:PL ART play:IPFV FOC dawadawa:SG base:SG=LOC. 3PL learn:IPFV FOC

būlā wā'ab. Bà à né À-Pām bīis.

shoot:PL dance:SG. 3PL COP FOC PERS-Apam child:PL.

"The children are playing under a dawadawa tree. They are learning the dance of the young shoots. They are Apam's children." KKY p6
(The *relationship* between Apam and the children is new information.)

In this context proper names are not referential:

O yv'vr na anε Joon. "His name will be John." (Lk 1:60)

Ò yv'vr ná ā nē Joon.

3AN name:SG IRR COP FOC John.

Focus under the scope of a negative is again usually **contrastive**:

Ì kā' dúb'atāa=∅. "I'm not a doctor."

1SG NEG.BE doctor:SG=NEG.

Ì kā' nē dúb'atāa=∅. "I'm not a *doctor*." ("I'm a nurse.")

1SG NEG.BE FOC doctor:SG=NEG.

Focus on a **locative complement** typically involves either a place name or a definite predependent with a postposition. The fact that a referent is at a known place is new information.

Dāy lā bé nē dó-kàṅā lā púvǵv̄=n.

Man:SG ART EXIST FOC hut-DEMST.SG ART inside=LOC.

"The man is inside that hut." (Reply to "Where is that man?")

Mam bene moogin.

"I'm in the bush." BNY p8

Mām bé nē mōvǵv̄=n.

1SG.CNTR EXIST FOC grass:SG=LOC.

Ṁ yí nē Bók.

"I come from Bawku." SB

1SG emerge FOC Bawku.

Yadda niḡir yitnε labaar la wǵmmvǵ ni.

Yàddā-niḡir yít nē lābāar lā wómmvǵ ní.

Assent-doing emerge:IPFV FOC news ART hearing LOC.

"Faith comes from hearing the news." (Rom 10:17)

Contrast the existential use of *bè*, where the locative is an adjunct:

Dàv-sō' bé dó-kàṅā lā púvǵv̄=n.

Man-INDFAN EXIST hut-DEMST.SG ART inside:SG=LOC.

"There is a certain man in that hut."

There are few examples of *nē'*-focus on an adjunct in my data; one is

Tì díit sā'ab nē zāam. "We eat millet porridge *in the evening*."

1PL eat:IPFV porridge FOC evening. ("When do you eat porridge?")

Focus on the entire VP, which uses VP-final *nē'*, is always contrastive, because non-contrastive focus on the VP is the default. It may occur in statements, polar questions and direct commands. Aspectual interpretation must be impossible. Aspectual sense ruled out by the position of *nē'*:

Ò kùèsìd sūmmā lā nē. "She *sells/is selling* the groundnuts."

3AN sell:IPFV groundnut:PL ART FOC. ("They're not free.")

Aspectual sense ruled out by mood:

Gòsìm nē. "Look!" ("Don't touch." WK)
Look:IMP FOC.

Imperfectives with subjects which are neither agents, nor changing state, nor moving without external agency, and where there is no explicit time limitation:

Ò gìm nē. "He's *short*." ("I was expecting someone taller.")
3AN be.short FOC.

Ì bódī=f nē. "I really *love* you." WK
1SG want=2SG FOC.

Dāam lā nūud nē. "The beer is for *drinking*."
Beer ART drink:IPFV FOC. ("Not washing with!")

Dāká lā zāñl nē. "The box gets carried *in the hands*."
Box:SG ART carry.in.hands FOC. ("Not on your head.")

Dāká lā zīid nē. "The box is for carrying *on the head*."
Box:SG ART carry.on.head:IPFV FOC. ("Not carrying in the hands.")

Perfectives which cannot be interpreted as resultative:

Ò dīgìl nē. "He's *laid it down*." ("I thought he'd pick it up.")
3AN lay.down FOC.

Kà ì bódìg nē. "It's *lost*."
And 3IN get.lost FOC. Contradicting "someone hid it." [16.3.4](#)

Ò dīgìn nē. "He's *lain down*." DK: "Someone calls at your house and gets no answer; he thinks you're out but I'm explaining that you've gone to bed."
3AN lie.down FOC. WK: "You've said: the child looks filthy. I'm replying: He's been lying down."

Ò zì'en nē. "She's *pregnant*." (Not "She has stood still.")
3AN stand.still FOC. An idiomatic use.

24.2 Clefting

Clefting uses a main clause like *Lì à nē* "It is ..." or a verbless identificational clause [18.4](#) followed by a *n*-catenation when it is the subject of the catenated clause which appears in the main clause, adnominal *kà*-catenation otherwise. The sense resembles English "it-clefting" (CGEL p1416), *foregrounding* the clefted element and *backgrounding* the rest, with an implicature of exhaustiveness and exclusiveness:

Ka dau me pu sv'oe o meη ningbinaa. Li anε o pu'a sv'oe li.

Kà dāy mé pō sú'v ò mēη nīn-gbīnāa=∅.

And man:SG also NEG.IND own 3AN self body:PL=NEG.

Lì á né ò pu'ā_∅ sú'v=lī.

3IN COP FOC 3AN wife CAT OWN=3IN.

"And a husband, too, does not own his own body. It is his wife who owns it."

(1 Cor 7:4)

Anō'on nwaa yisid nidib tvumbe'edi basida?

Ànō'on_∅ ñwáa_∅ yīsīd nīdīb tūm-bē'edī_∅ básidà=∅?

Who CAT this CAT expel:IPFV person:PL deed-bad:PL CAT throw.out:IPFV=CQ?

"Who is this who drives people's sins out?" (Lk 7:49)

Īnī_∅ lá kà fò dāa ñyēt.

3AN.CNTR CAT that and 2SG TNS see:IPFV.

"This is he whom you saw." WK

Bōō_∅ lá kà ò ñyētá=∅?

What CAT that and 1SG see:IPFV=CQ?

"What is that that I can see?"

With *kà*, the foregrounded element may be extracted from a subordinate clause or prepositional phrase; direct objects leave a null-anaphora gap:

Li anε ya taaba banε pu'vsid Wina'am ka li nar ka ya kad saria.

Lì à né yà tāabā bānì pù'vsid Wínà'am kà ì nár

3IN COP FOC 2PL fellow REL.PL greet:IPFV God and 3IN must

kà yà kád sàríyà.

and 2PL drive judgment.

"It is your fellow-worshippers of God whom you must judge." (1 Cor 5:12)

24.3 Preposing

A preposed clause element is followed a *kà*-catenation with independent tense marking. Preposed elements cannot be clause subjects. Unlike the formally similar *n*-focus, the default meaning is *foregrounding*, not focus, and the construction is compatible both with *n*-focus and with focus-*nē*':

Aσεε line an be'ed ma'aa ka m na tun'e niη.

Àséε línì àñ bē'ed má'aa kà m ná tūñ'ə ∅ nίη.

Only REL.IN COP bad only and 1SG IRR be.able CAT do.

"It's only that which is bad that I can do." (Rom 7:21)

Dinzug ka mam Paul n be sarega ni Yesu Kiristo zug yanam buudbane ka' Jew dim la yela.

Dìn-zúg kà mām Paul n bé sārīgá nì Yesu Kiristo zúg yānám

That-upon and 1SG.CNTR Paul CAT EXIST prison:SG LOC Jesus Christ upon 2PL.CNTR

búud-bàni ká' Jew díim lā yéla.

tribe-REL.PL NEG.BE JEW NULL.PL ART about.

"Therefore, I, Paul, am in prison for Jesus Christ because of you whose tribe is not Jewish." (Eph 3:1, 1996)

Bī'əl bī'əl kà kōlīg pē'el nē.

Little little and river:SG get.full FOC.

"Little by little, and a river is full." (Proverb)

There is no syntactic movement rule for interrogative pronouns/proforms:

Bùgóm lā yít yáa ní ná=∅?

Fire ART emerge:IPFV where LOC hither=CQ?

"Where is the light coming from?" SB

However, preposing of objects containing interrogative pronouns is common; if they are extracted from prepositional phrases, resumptive pronouns are used.

Bɔ ka ti na niηε?

"What are we going to do?" (Acts 21:22)

Bó kà tì ná nìηè=∅?

What and 1PL IRR do=CQ?

Nū'-bībísá àlá kà fù ñyētá=∅?

Hand-small:PL NUM:how.many and 2SG see:IPFV=CQ?

"How many fingers can you see?" SB

Ka anɔ'ɔnam ka Wina'am sɔnf da pɛlig nɛ ba yɔma piisnaasi la?

Kà ànɔ'ɔn-nàm kà Wínà'am súñf dá pèlìg né bà

And who-PL and God heart:SG TNS whiten with 3PL

yòmà p̄is nāasí lá=∅?

year:PL forty ART=CQ?

"And who was God angry with for forty years?" (Heb 3:17)

Preposing is *required* for *bɔ* in the sense "why?":

Bó kà fù kúmmà?

"Why are you crying?"

cf **Fù kúm bó?*

*"What are you crying?"

Bó kà... is much the most frequent way of rendering "Why?"

Complements of single-aspect verbs usually remain *in situ*, perhaps necessarily so in the case of *àɛñ*^{ya} "be something":

Niŋgbɪŋ bɔ buudi ka ba na ti mɔra?

Nɪn-gbɪŋ bó-būudí kà bà ná tī mɔrá=∅?

Body:SG what-sort and 3PL IRR afterwards have=CQ?

"What kind of body will they have?" (1 Cor 15:35)

but *Fù bɔɔd bó=∅?*

"What do you want?"

2SG want what=CQ?

Mām áñ bó=∅?

"What am I?"

1SG.CNTR COP what=CQ?

Kà fù áañ ànɔ'ɔnɛ=∅?

"Then who are you?"

And 2SG COP who=CQ?

VP adjuncts are often preposed; there is probably a contrast between foregrounding by preposing and focussing with *nɛ́*:

Ñwādɪsá àtáñ' kà fù ná lēb nā.

Month:PL NUM:three and 2SG IRR return hither.

"You're to come back in three months." (Instructions, not a reply.)

Tì díť sā'ab nē zāam.

1PL eat:IPFV porridge FOC evening.

"We eat millet porridge in the evening." ("When do you eat porridge?")

The only structure other than a NP (including *ñ*-clauses) or AdvP that I have found preposed is *wōv* "like" + object:

Wōv búŋ né kà ò zót.

Like donkey:SG like and 3AN run:IPFV.

"It's like a donkey that he runs."

**Né ñ nù'ug kà ñ sī'is.*

*With 1SG hand:SG and 1SG touch.

attempted for "With my hand, I touched it."

Preposing has **no implication of foregrounding** in relative clauses [21.2.2](#), with manner, place and reason adjuncts (which may *only* precede the subject by preposing), and when absolute clauses in adjuncts precede the main clause because of the requirement for constituent order to parallel event order [21.1](#):

Mán ñwè' dāy lā zúg kà pōlīs gbáñ'a=m.

1SG:NZ hit man:SG ART upon and police seize=1SG.

"The police arrested me because I hit the man." ILK

24.4 Dislocation

A clause element placed after a distinctively phrase-final verb form has been dislocated. Manner-adverbs are thereby intensified:

Ṁ pō'vs yā bédvḡ.

1SG greet PFV much.

"Thank you very much."

Ya yidigya bēdegv.

Yà yídìg yā bédvḡ.

2PL go astray PFV much.

"You are very much mistaken." (Mk 12:27)

Non-pronoun objects can be dislocated; the sense is "against expectation":

Ò dà' yā múj.

3AN buy PFV rice.

"She's bought rice." ("of all things!")

vs *Ò dà' nē múj.*

3AN buy FOC rice.

"She's bought rice." ("What did she buy?")

Yà'-clauses 20.1 can be dislocated. So is even a catenated clause in

Amaa Wina'am keya ka ya an nɔɔr yinne ne Yesu Kristo.

Àmáa Wínà'am ké yá kà yà áñ nɔɔr yīnní nē Yesu Kristo.

But God cause PFV and 2PL COP mouth:SG one with Jesus Christ.

"But God has caused you to be in agreement with Jesus Christ." (1 Cor 1:30)

Left-dislocation of objects and complements may occur on the basis of **weight**, without preposing *kà* or foregrounding. A resumptive pronoun must appear.

Wilkanε bεε m ni ka pɔ wanna, m Ba' nwaadi li ne [sic: 1996 n] basid.

Wìl-kànì bèε òm ní kà pɔ wénnā=∅,

Branch-REL.SG EXIST 1SG LOC and NEG.IND bear.fruit:IPVF=NEG.

ò Bā' ñwá'adī=lí n básìd.

1SG father:SG cut:IPFV=3IN CAT throw.out:IPFV.

"A branch which is in me and does not bear fruit, my father cuts out." (Jn 15:2)

Onε ka ba tis o ka li zu'oe, ba me mɔr puten'er ye o na lεbis linε zu'oe.

Ònì kà bà tísò=∅ kà lì zú'e, bà mē mòr

REL.AN and 3PL give=3AN and 3IN become.much, 3PL also have

pú-tèñ'er yé ò nà lēbīs línì zù'e.

mind:SG that 3AN IRR return REL.IN become.much.

"Whom they have given much to, they expect he will return much." (Lk 12:48)

24.5 Presentational constructions

Presentational constructions introduce new entities into discourse using indefinite NPs; here, absence of *lā'* implies *indefinite specific* reference, not generic 12.8.5. Dependent indefinite pronouns or quantifiers are possible but not required.

Bè "be somewhere/exist" is frequent in presentational clauses, often with a following *n*-catenation or adnominal *kà*-catenation 19.

Farisee dim nid yinne da be

Farisee dím nìd yīnní dà bè ...

Pharisee NULL.PL person:SG one TNS EXIST ...

"There was one man of the Pharisees ..." (Jn 3:1)

Dapa atan' n da be.

"There were once three men." KSS p16

Dāpá_àtáñ' n dá bè.

Man:PL NUM:three CAT TNS EXIST.

Dau da be mori o po'a yimmir

Dāy dá bè_ø mōrí_ò pū'à-yīmmír

Man:SG TNS EXIST CAT have 3AN wife-single:SG

"There was a man who had one wife." KSS p26

Pu'a sɔ' da be mɔr o bipuŋ ka kikirig dɔl o.

Kà pū'à-sɔ' dá bè_ø mór ò bī-púŋ kà kīkīrīg dōlló=ø.

And woman-INDFAN TNS EXIST CAT have 3AN child-girl:SG and fairy:SG follow=3AN.

"There was a woman whose daughter was oppressed by a devil." (Mk 7:25)

Other verbs expressing location can introduce the subject as a new topic, and verbs of finding, seeing etc can introduce their objects in a similar way.

Ka dau daa zin'i Lystra ni ka pu tun'e kenna.

Kà dāy dāa zīñ'i Lystra ní kà pū tūñ'è_ø kēnná=ø.

And man:SG TNS sit Lystra LOC and NEG.IND be.able CAT go:IPFV=NEG.

"There was a man in Lystra who could not walk." (Acts 14:8, 1996)

Anina ka o nyɛ dau ka o yv'vr buon Aneas.

Àníná kà ò ñyē dáy kà ò yv'vr būen Aneas.

ADV: there and 3AN see man:SG and 3AN name:SG call:IPFV Aeneas.

"There he found a man whose name was Aeneas." (Acts 9:33)

24.6 Free personal pronouns

Only free pronoun forms are possible in isolation, apposition, coordination, before relative pronouns, and (for some speakers) with 2nd persons before direct commands after a *yà'*-clause 20:

Mánè?

"Me?"

mān Paul

"I, Paul"

tīnám nē fōn

"us and you"

fōn-kánì ...

"you, who ..."

Where a bound pronoun is permitted, the choice of a free pronoun implies *contrast*. For the special case of **logophoric** use see 22.2.

Focussed pronouns must be contrastive, and contrastive pronouns are normally focussed if syntactically permissible:

Manɛ an kɔnbkem svŋ la.

Mānī_ø áñ kóñb-kìim-sòŋ lā.

1SG.CNTR CAT COP animal-tender-good:SG ART.

"I am the good shepherd." (Jn 10:11)

24.7 Emphatics

I have borrowed the term "emphatic" from Jeffrey Heath's Songhay grammars (Heath pp202ff.) Emphatics relate NPs or AdvPs to the discourse context. They follow top-level NPs/AdvPs, except for *hālí*, which precedes.

mè DK KT SB NT *mèn* WK; clause finally (all sources) *mèn*^ε "also, too." The particle may follow *kà* + ellipted subject pronoun.

bɔzugɔ o anɛ fɔ biig mɛn.

bɔ́ zúgɔ̀ ò à né fò bīig mén.

Because 3AN COP FOC 2SG child:SG also.

"Because he is your child too." (Genesis 21:13)

O pu'a mɛ kena.

"His wife also came." (Acts 5:7)

Ò pɔ̀'ā mé kè nā.

3AN wife:SG also come hither.

Wina'am tisid ... ka mɛ tisid ...

Wínà'am tísìd ... kà mé tìsìd ...

God give:IPVF ... and also give:IPFV ...

"God gives ... and [God] also gives ..." (1 Cor 15:38)

nɔɔ "just, exactly"

dàa-kàn lā nɔɔ

"that very day"

Fɔ ya'a mɔr ya'am, fɔn nɔɔ na dii li malisim.

Fò yá' mɔr yā'am, fɔn nɔɔ ná dí lí mālísím.

2SG if have sense, 2SG.CNTR exactly IRR eat 3IN joy.

"If you have wisdom, it is you who will have joy of it." (Proverbs 9:12)

mà'aa (LF *mà'anè*) "only"

Aɛɛ linɛ an bɛ'ɛd ma'aa ka m na tun'e niŋ.

Àséé líni àñ bē'ɛd má'aa kà m ná tũñ'ə̀ ø níŋ.

Only REL.IN COP bad only and 1SG IRR be.able CAT do.

"It's only that which is bad that I can do." (Rom 7:21)

kòtāa^{NE} "at all"

Áyì kòtāa.

"Not at all."

gòllimm (LF *gòllimnè*) "only"

Li ka'anε Wina'am gullim nε?

Lì k̄ā' nē Wínà'am góllimnèε=∅=∅?

3IN NEG.BE FOC God only=NEG=PQ?

"Is it not God alone?" (Lk 5:21)

hālí can be used as an emphatic, preceding a NP or AdvP with the meaning "even":

Hali t̄v̄mbε'ed dim nīid ala.

Hālí t̄v̄m-bē'ed dí̄m nīīd àlá.

Even deed-bad:PL NULL.PL do:IPFV ADV:thus.

"Even sinners do that." (Lk 6:33)

Before a manner-adverb it means "very"; the adverb itself may be ellipted.

Lì t̄ε hālí [bé̄d̄v̄ḡv̄]. "It's very difficult."

3IN be.bitter until much.

Hālí can be preposed with *kà*:

Hali ka nidib m̄r ban'adnam na.

Hālí k̄à nīd̄īb m̄r b̄āñ'ad-nàm n̄ā.

Even and person:PL have sick.person-PL hither.

"People even brought the sick" (Acts 5:15)

Hālí b́aa is also used for "even" before a NP:

Hali baa lamp̄di'esidib mε nīid ala.

Hālí b́aa làmp̄-d̄i'ēsìd̄īb mé nīīd àlá.

Even tax-receiver:PL also do:IPFV ADV:thus.

"Even tax-collectors do that." (Mt 5:46)

Hali baa bama w̄sa ya'a na z̄o ka basif, man kv basi f̄o.

Hālí b́aa bàmm̄ā w̄s̄ā yá' nà z̄ó k̄à b́ásì=f,

Even DEMST.PL all if IRR run and abandon=2SG,

m̄ān k̄ú b́āsī=f̄ó=∅.

1SG.CNTR NEG.IRR abandon=2SG=NEG.

"If even they all run away and leave you, I will not leave you." (Mt 26:33)

(c) Prayers. Reply *Àmí!* "Amen!"*Wīn ná lēbīsī=f nē láafiyà.*

"Safe journey!" literally "[I pray that] God will bring you back in health."

Wīn ná sōhī=f.

"God will help you"; usually expresses thanks

Wīn ná tā'así=f.

"Safe journey!" ("God will help you travel.")

(d) Statements of fact and commands. Reply *Tò* "OK", or as appropriate.*Bēogō lā.*

"See you tomorrow!" ("That's tomorrow.")

Àtínì dáarì lā.

"See you on Monday."

Gbìsìm sùhā.

"Sleep well."

Kpèlīmī súm.

"Remain well"; Goodbye, to those remaining.

Pò'vsì m yín.

"Greet (those) at home"; Goodbye, to leaver.

Reply *Tò* "OK", or *Bà nà wōm* "They will hear."

(e) Miscellaneous formulae

M pò'vs yā [bédvugō]."Thankyou [very much]." Reply *Tò*, or *Pò'vsòg kā'e*. "No thanks [needed]."*Gáafàrà.*

"Sorry." Like Ghanaian English "sorry", may be just an expression of sympathy.

*Kābīr kābirí!*Formula asking admission to a dwelling. Twi *agoo* is also used. (Knocking is for robbers trying to find out if anyone is at home.)*Dì m sūgrú.*

"Please forgive me."

M bélīm nē.

"I beg you." Not "please"; Kusaasi etiquette needs no spoken equivalent of "please."

X lābāar á wēlá?"What is the news of X?" A common initial reply is *Dīb m'áa*. "Only food." i.e. "good."*M mōr kú'om náa?*"Shall I bring water?" Traditional first words to guest. "No, thank you" is *Kù'om á súm*. ("Water is good.")*Wīn yél sídà.*

"Bless you!" Literally "God speaks truth"; WK explained: "If you sneeze, it means someone elsewhere is praising you."

Fò wóm Kōsáalèè?

"Do you understand ['hear'] Kusaal?"

Ēñ, m wóm.

"Yes, I do."

Áyì, m pō wómmā.

"No, I don't."

These words are also used for cousins, with seniority, as always, going by family branch.

| | | |
|----------------|-------|--|
| My wife | is my | <i>yī-pu'á</i> ^a or simply <i>pu'ā</i> ^a |
| wife's parent | | <i>dìəm</i> ^{ma} (♂ <i>dìəm-dāu</i> , ♀ <i>dìəm-puāk</i> ^a) |
| wife's sibling | | <i>dàkīg</i> ^a (♂ <i>dàkī-dāu</i> , ♀ <i>dàkī-puāk</i> ^a) |

Dìəm^{ma} is also used in polite address to an unrelated person of opposite sex and similar or greater age to oneself but not old enough to be called *m̄ mà* "my mother" or *m̄ bā* "my father." Parents-in-law are greatly respected, but with siblings-in-law there is a traditional reciprocal joking relationship; certain whole ethnic groups are said to bear this relationship to each other, called "playmate" in local English. At *Bùgóm-tōwñ*^ε, the Fire Festival, one throws eggs at one's brothers-in-law.

I am my wife's parents' *bīg*^a "child" and my wife's siblings' *dàkīg*^a.

| | | |
|---------------------------|-------|--|
| My husband | is my | <i>sīd</i> ^a |
| husband's parent | | <i>dàyám</i> ^{ma} (♂ <i>dàyām-dāu</i> , ♀ <i>dàyām-puāk</i> ^a) |
| husband's elder brother | | <i>sìd-kpēñm</i> ^m |
| husband's younger brother | | <i>sìd-bīl</i> ^a |
| husband's sister | | <i>sìd-puāk</i> ^a |

I am my husband's parents' *bīg*^a "child"; all my husband's siblings (of both sexes) call me *pu'ā*^a "wife."

My co-wife is my *n̄n-tāa*, "rival" in Ghanaian English. In traditional stories the role of the "wicked stepmother" in European folklore is assumed by one of the father's other wives.

Two men married to sisters are *dàkī-tùes*^ε; two women married to brothers are *n̄n-tāas*^ε, "co-wives." "Fiancée" is *pu'à-ēlīŋ*^a.

26.2 Personal names

See Haaf pp87ff for a detailed account of Kusaasi personal naming practices.

Personal names are preceded by the personifier particle, *Á-* by default but *Ñ-* before adjective stems, where *Ñ-* is a syllabic nasal assimilated to the point of articulation of a following consonant. Most names are based on common nouns, but a few are based on adjectives, and some on whole VPs, or even clauses.

On Kusaal personal names in English-language contexts see [1.1](#).

The Kusaasi do not use surnames traditionally. Christians use English (or French) baptismal names in speaking European languages, and in official contexts use their Kusaal personal names as "surnames."

Many names allude to a guardian spirit (*sīgīr*^{ε/}) assigned to a newborn child through the father's consultation with a diviner (*bā'a*); this may be the *wīn*^{ne/} 1.1 of an ancestor, or of a spiritually powerful tree:

| | | |
|-----------------------------|---------|--|
| <i>À-Wīn</i> ^{ne/} | Awini | person with a <i>sīgīr</i> ^{ε/} from father's family |
| <i>À-Bōgūr</i> ^ε | Abugri | person with a <i>sīgīr</i> ^{ε/} from mother's family |
| <i>À-Tūg</i> ^a | Atiga | "tree" as <i>sīgīr</i> ^{ε/} |
| <i>À-Kūdōg</i> ^o | Akudugu | "piece of iron" (sc. as a marker on a tree- <i>sīgīr</i> ^{ε/}); displaced as a common noun by the pl-as-sg <i>kūt</i> ^ε |

A younger sibling of *À-Wīn*^{ne/} with the same *sīgīr*^{ε/} is called *À-Wīn-bīl*^a "Awimbillah", of *À-Kūdōg*^o, *À-Kūd-bīl*^a "Akudibillah" etc. Names for girls may follow the pattern *À-Wīn-puāk*^a "Awimpoaka."

Other names refer to birth circumstances:

| | | |
|-----------------------------|-------|--|
| <i>À-Nà'ab</i> ^a | Anaba | "chief" but in the sense "afterbirth" (because a chief leaves his house after his retainers): sole survivor of twins |
| <i>À-Fūug</i> ^{o/} | Afugu | "clothing": child born with a caul |
| <i>À-Tūl</i> ^{le} | Atuli | (<i>tūlīg</i> ^ε "invert"): breech-delivered child |

A whole clause is seen as a birth-circumstance personal name in

| | |
|-----------------------|------------------------------|
| <i>À-Tūm bódìg yā</i> | "The medicine has got lost." |
|-----------------------|------------------------------|

Many names relate to customs intended to break a cycle of stillbirths. One such custom is the apotropaic practice of throwing away the dead child or just burying it in a pot; the next surviving child may then be called e.g.

| | | |
|-------------------------------|---------|-----------------------|
| <i>À-Tāmpōvr</i> ^ε | Tampuri | "ashpit, rubbish tip" |
| <i>À-Dōk</i> ^{o/} | Aruk | "pot" |

Another strategy is pretended adoption by an outsider, resulting in names like *Jambeedu* "Fulani", or

| | | |
|---------------------------------|------------|--|
| <i>À-Sāan</i> ^{a/} | Asana | "guest, stranger" |
| <i>À-Sāan-dú</i> | Sadow | "guest" + <i>dāy</i> "man" |
| <i>À-Zàngbèog</i> ^o | Azangbego | "Hausa person" |
| <i>À-Nàsà-puāk</i> ^a | Anasapoaka | "European woman"; also "child delivered by a European midwife" |

Names based on adjectives:

| | | |
|-----------------------------|---------|----------|
| <i>Ñ-Dāv̄g</i> ^o | Ndago | "male" |
| <i>Ñ-Puāk</i> ^a | Mpoaka | "female" |
| <i>Ñ-Bīl</i> ^a | Mbillah | "little" |

Muslims often use day-of-the-week names depending on birth. The system does not cover all weekdays; examples are *À-Tínì* "Girl born on Monday", *À-Tàláatà* "Girl born on Tuesday", *Àrzúmà* "Boy born on Friday", *À-Síbì* "Boy born on Saturday."

Muslims also have formal Arabic names, sometimes adapted into Kusaal, like *Dàhà máanì/Dàsmáanì* *ʔAbdu-r-Raḥma:n*. KKY p6 has the interesting girl's name *Amoryam*, *ʔArabic Maryam* "Mary", interpreted as *À-Mōr Yām* "Has Common Sense."

26.3 Places

For Kusaal place names in English-language contexts see 1.1.

This section has been improved by consultation with John Turl, who maintains an extensive website dedicated to Ghanaian toponymy (see References.)

Many Kusaal place names have transparent meanings.

Place names include:

| | | |
|----------------------------------|-----------|--|
| <i>Bòk</i> ^o | Bawku | "pit, geographical depression" |
| <i>Kōk</i> ^{a/} | Koka | "mahogany tree" |
| <i>Kòkparìg</i> ^a | Kokpariga | "palm tree" |
| <i>Tèmpáan</i> ^{ne} | Tempane | perhaps "new villages" |
| <i>Mṽ'à-nōr</i> ^{ε/} | Mogonori | "lakeside" ("lake-mouth") |
| <i>Bàs-yōn</i> ^{ne/} | Basyonde | "abandon sacks" ?reason for name |
| <i>Kūgōr</i> ^{ε/} | Kugri | "stone" |
| <i>Bōgōr</i> ^ε | Bugri | <i>bōgōr</i> ^ε , object housing a <i>wīn</i> ^{ne/} |
| <i>Wìdì-ñyá'aṅ</i> ^a | Woriyanga | archaic for <i>wìd-ñyá'aṅ</i> ^a "mare" |
| <i>Bì-nà'ab</i> ^a | Binaba | "prince" |
| <i>Gàarò</i> | Garu | Hausa <i>gàaruu</i> "wall around a town or compound" |
| <i>Wìid-nà'ab</i> ^a | Widinaba | "chief of the clan <i>Wìid</i> ^a " |
| <i>Pūsìg</i> ^{a/} | Pusiga | "tamarind" |
| <i>Tīl</i> ^{ε/} | Tilli | "tree trunk" cf Toende Kusaal <i>tīl id</i> (Hasiyatu Abubakari, p.c.) |
| <i>Dènòg</i> ^o | Denugu | No known meaning |
| <i>Pùlìmà Kù'om</i> ^m | Pulimakom | "water by <i>pùlìmà</i> (grass sp)" |

| | | |
|---------------------------------|----------|--|
| <i>Wîdāan</i> ^a | Widana | for <i>Wîd-dāan</i> ^a "Horse-Owner", title of a chief's <i>nō-dî'əs</i> ^a "linguist." |
| <i>Mî'isìg</i> ^a | Missiga | Explained locally as "mission", i.e. of the Assemblies of God; perhaps influenced by <i>mî'isùg</i> ^o "baptism" |
| <i>Sā-bîl</i> ^a | Zebilla | " <i>Sporobolus subglobosus</i> " |
| <i>Sā-pîlìg</i> ^a | Sapeliga | " <i>Isobertia Doka</i> " |
| <i>Kòl-tā'amís</i> ^ε | Kultamse | "dog almonds, <i>Andira inermis</i> " |

WK thought that the *sā-* of *Sā-bîl*^a was a plant used in making brooms. No **sā'* occurs in my data, but Farefare *sáagá*, Dagbani *saa* are *Sporobolus subglobosus*, which is indeed so used (Blench.) The meanings for "Sapeliga" and "Kultamse" are based on a 1935 agricultural report on the Farefare/Nabit area located by John Turl.

For *Kòlvúg*^o "Kulungungu", Turl cites a Bisa-speaking informant who suggests Bisa *Kuurgongu*, "Crooked Sheanut Tree."

| | | |
|----------------------------|--------|---|
| <i>Àgòl</i> ^{lε} | Agolle | cf <i>àgól</i> ^{lε} "upwards" |
| <i>Tùen</i> ^{nε} | Toende | cf <i>tùen</i> ^{nε} "in front", "West" |
| <i>Bārōg</i> ^{o/} | North | "Bisa country" |
| <i>Ñyá'aŋ</i> ^a | East | "behind" |
| <i>Zuēyā</i> | South | "hills", i.e. the Gambaga Escarpment |
| <i>Tùen</i> ^{nε} | West | "in front" |

The forms above were given by WK; KB has *ya-dagɔbvg yà dàgòbìg*^a ("your left hand") for "south" and *ya-datiŋ yà dàtìŋ*^o ("your right hand") for "north," along with *ya-nyá'aŋ* "east", *ya-tuona* "west."

Stems referring to ethnic groups and clans create place names by adding the suffix *-gɔ*: *Kūsâvg*^o "Kusaasiland", *Mòɔg*^o "Mossi country." They need not always be established settlements: *Kòtāŋ*^{o/} "any place inhabited by clan Kotamba."

Places outside *Kūsâvg*^o generally do not have Kusaal names (an exception is *Sānkāāns*^ε "Sankanse" in Burkina Faso.) For "Accra" the Twi-derived *Ankara* is usual. Toende has *Wa'arvk* for "Ouagadougou", but I could not elicit any Agolle equivalent.

There seems to be no Agolle Kusaal proper name for the White Volta, which is simply *kōlvōg*^a "river", presumably as the only real river within *Kūsâvg*^o.

26.4 Ethnic groups and clans

The great majority of ethnic group names are *ga|se* or *a|ba*. The corresponding languages belong to the *le* subgroup of *re|aa*, and the place inhabited has sg *gɔ*.

| Ethnic group (pl) | Language | Place | |
|----------------------------------|--------------------------------|--------------------------------|-----------|
| <i>Kūsâas</i> ^ε | <i>Kūsâal</i> ^ε | <i>Kūsâvg</i> ^ɔ | Kusaasi |
| <i>Ñwāmpūrīs</i> ^{ε/} | <i>Ñwāmpūrīl</i> ^{ε/} | <i>Ñwāmpūrōg</i> ^{ɔ/} | Mamprussi |
| <i>Bārīs</i> ^{ε/} | <i>Bāt</i> ^{ε/} | <i>Bārōg</i> ^{ɔ/} | Bisa |
| <i>Mòɔs</i> ^ε | <i>Mòɔl</i> ^ε | <i>Mòɔg</i> ^ɔ | Mossi |
| <i>Dàgbām</i> ^{ma/} | <i>Dàgbān</i> ^{ne/} | <i>Dàgbāyη</i> ^{ɔ/} | Dagomba |
| <i>Bìm</i> ^{ma} | <i>Bìn</i> ^{ne} | <i>Bìyη</i> ^ɔ | Moba |
| <i>Sìm̄īs</i> ^ε | <i>Sìm̄īl</i> ^ε | <i>Sìm̄iyg</i> ^ɔ | Fulbe |
| <i>Yàañs</i> ^ε | <i>Yàan</i> ^{ne} | | Yansi |
| <i>Gōrīs</i> ^ε | <i>Gōrīn</i> ^{ne} | | Farefare |
| <i>Yārīs</i> ^{ε/} | <i>Yāt</i> ^{ε/} | | Yarsi |
| <i>Zàngbèed</i> ^ε | <i>Zàngbèel</i> ^ε | | Hausa |
| <i>Bùlīs</i> ^ε | <i>Bùl</i> ^{le} | | Bulsa |
| <i>Tàlīs</i> ^ε | <i>Tàlìn</i> ^{ne} | | Tallensi |
| <i>Nàbıdìb</i> ^a | <i>Nàbìr</i> ^ε | | Nabdema |
| <i>Bòsâañs</i> ^ε | <i>Bòsâañl</i> ^ε | | Bisa |
| <i>Nàsàa(r)-nàm</i> ^a | <i>Nàsāal</i> ^ε | | European |
| <i>Kàmbùmìs</i> ^ε | <i>Kàmbùnìr</i> ^ε | | Ashanti |

Bārīs^{ε/} means "Bisa", not just Bareka; *Bìm*^{ma} is "Moba", not just Bemba (WK.)

Note *Tùen*^{ne} "Toende area", *Tùennìr*^ε "Toende dialect of Kusaal", *Àgòl*^{le} "Agolle area", *Àgòl*^{le} "Agolle dialect of Kusaal": *Ò pjàñ'ad Àgòl*. "She speaks Agolle Kusaal."

Kusaasi clan names include, among many others:

| Clan (pl) | Place | |
|---|-------------------------------|-----------|
| <i>Kòtām</i> ^{ma/} | <i>Kòtāyη</i> ^{ɔ/} | WK's clan |
| <i>Zùø</i> ^ε | | |
| <i>W̄iid-nàm</i> ^a | <i>W̄iidùg</i> ^ɔ | |
| <i>Nàbıdìb</i> ^a | <i>Nàbıdùg</i> ^ɔ | |
| <i>Gòɔs</i> ^ε | <i>Gòɔg</i> ^ɔ | |
| <i>Sà'dàbùø</i> ^ε - <i>bùøb</i> ^a | <i>Sà'dàbòɔg</i> ^ɔ | |
| <i>Nà'dàm</i> ^{ma} | <i>Nà'dayη</i> ^ɔ | |
| <i>Gòm-dìm</i> ^a | <i>Gòm</i> ^{me} | |

Subclans of *Zùø*^ε include *Zyà-sābılís*^ε "Black Zoose" and *Zyà-w̄ıib*^a or *Zyà-w̄ııs*^ε "Red Zoose." Clan *Nàbıdìb*^a is distinct from the ethnic group "Nabdema" (WK.)

26.5 Trees and fruits

Tree names are almost all *ga|se* class, like *tùg*^a "tree"; their fruits belong to classes *re|aa* or *gɔ|de*.

| Tree | Fruit | |
|-------------------------------|-----------------------------|--------------------------|
| <i>āañdīg</i> ^a | <i>āañdīr</i> ^ε | <i>Vitex doniana</i> |
| <i>dùañ</i> | <i>dòòǹg</i> ^ɔ | dawadawa |
| <i>gāañ</i> [/] | <i>gāñr</i> ^{ε/} | Nigerian ebony |
| <i>gùḡ</i> ^a | <i>gùm</i> ^{mε} | kapok |
| <i>kìkàḡ</i> ^a | <i>kìkàm</i> ^{mε} | fig tree |
| <i>kpòkparìg</i> ^a | <i>kpòkpar</i> ^ε | palm |
| <i>lì'əḡ</i> ^a | <i>lì'am</i> ^{mε} | <i>Ximenia americana</i> |
| <i>pūsīg</i> ^{a/} | <i>pūsīr</i> ^{ε/} | tamarind |
| <i>sīsìbìg</i> ^a | <i>sīsìbìr</i> ^ε | neem |
| <i>tá'aḡ</i> ^a | <i>tá'am</i> ^{mε} | shea butter |
| <i>tè'εg</i> ^a | <i>tè'og</i> ^ɔ | baobab |
| <i>vúəḡ</i> ^a | <i>vúər</i> ^ε | red kapok |

26.6 Colours

Kusaal, like many local languages, has a basic three-colour system: *zèñ'og*^ɔ "red", for all reddish shades, *sābílíg*^a "black" for all darker shades, and *pìə̀lìg*^a "white" for all lighter shades. *Wìug*^ɔ is synonymous with *zèñ'og*^ɔ. Kusaal has many other standard expressions for colour (e.g. *wōv támpōvr nē* "like ash", i.e. "grey"), often with parallels in other West African languages: "three-colour" means that any colour can be allocated to one of only three terms, not that only three colour terms exist.

26.7 Time

The day begins at sunrise. Answers to *bò-wìn*^{nε} "what time of day?" may be

| | | | |
|-------------------------------|-----------|------------------------------|----------------------|
| <i>bēogōv=n</i> ^{ε/} | "morning" | <i>bèkèkèoḡ</i> ^ɔ | "very early morning" |
| <i>zàam</i> ^m | "evening" | <i>àsùbá</i> | "dawn" (← Arabic) |
| <i>wìn-lìr</i> ^ε | "sunset" | <i>yú'vḡ</i> ^ɔ | "night" |
| <i>wìn-kòòǹr</i> ^ε | "sunset" | <i>nīntāḡ</i> ^{a/} | "heat of the day" |

Wìn^{nε} "time of day" (cf *wìnnìg*^a "sun") always has a predependent.

Clock times are calqued from Hausa: *kérifà àtáñ'* "three o'clock" = *karfèe ukù*.

The deictic particle *ñwà* "this" is commonly attached to time words, e.g. *zàam ñwá* [za:ma] "this evening", *yú'vḡ ñwá* [yɔ:vḡ:a] "tonight."

Answers to *bōn-dâar*^ε "which day?" may be

| | | | |
|--------------------------|------------|---------------------------|---|
| <i>zīnā</i> | "today" | <i>sù'əs</i> ^a | "yesterday" |
| <i>bēog</i> ^o | "tomorrow" | <i>dāar</i> ^ε | "day after tomorrow/ day before yesterday" |

Weekday names are of Arabic origin. Many older speakers count in days, not weeks; the traditional "week" is a three day market cycle, differing from village to village and carrying on regardless of any weekdays or festivals.

| | | | |
|-----------------------------------|------------|-----------------------------------|-------------|
| <i>Àláasìd dâar</i> ^ε | "Sunday" | <i>Àtínì dâar</i> ^ε | "Monday" |
| <i>Àtáláatà dâar</i> ^ε | "Tuesday" | <i>Àlárìbà dâar</i> ^ε | "Wednesday" |
| <i>Àlámìsì dâar</i> ^ε | "Thursday" | <i>À(r)zúmà dâar</i> ^ε | "Friday" |
| <i>Àsíbitì dâar</i> ^ε | "Saturday" | | |

Dāar^ε "day" is "twenty-four hour period" (*nīntāŋ* "day as opposed to night") and is used with predependents to specify a particular day; the word *dábìsìr*^ε is also used for "day" in counting periods of time, occurring usually in the plural:

| | |
|--|--------------------------------|
| <i>Dābá àyópòḡ dâar kà fù ná lēb nā.</i> | "You'll come back in a week." |
| <i>Dābá àyópòḡ kà fù ná lēb nā.</i> | "You'll come back for a week." |
| <i>Àláasìd dâar kà fù ná lēb nā.</i> | "You'll come back on Sunday." |
| <i>Tì kpélìm ànīnā dábìsà bī'əlá.</i> | "We stayed there a few days." |

Longer periods of time:

| | | | |
|-----------------------------|----------------|-----------------------------|---|
| <i>dābá àyópòḡ</i> | "week" | <i>bákpàḡ</i> | "week" |
| <i>ñwādīg</i> ^{a/} | "moon, month" | | |
| <i>sēoŋg</i> ^o | "rainy season" | <i>úvn</i> ^{ne} | "dry season" |
| <i>sāpál</i> ^{lε} | "Harmattan" | <i>dàwàlìg</i> ^a | "hot humid time just before the rains" |
| <i>yòvm</i> ^{mε} | "year" | <i>dūnná</i> | "this year" |

Ñwād-kánì gàad lā "last month", *ñwād-kánì kēn nā lā* "next month."

"Time" in general is *sāŋá* pl *sānsá* cb *sān*-:

| | | | |
|---------------------|----------------|--------------------|-----------------------|
| <i>sān-kánè?</i> | "when?" | <i>sān-kán lā</i> | "at that time" |
| <i>sāŋá kám</i> | "all the time" | <i>sāŋá bèdvgū</i> | "a long time" |
| <i>sānsá bèdvgū</i> | "many times" | <i>sāŋá bī'əlá</i> | "for/in a short time" |

27 Texts

27.1 Balaam's Donkey

Numbers 22:21-35, KB.

Balaam da duoe beogun lɔɔ o buŋɔ dɔl Moab na'ayikpɛm la keŋ. Amaa Wina'am sunf da duoe nɛ on keŋ la, ka Zugsɔb maliak kidigi zi'en suor la zug ye o geŋ o. Balaam da ban'adne o buŋ, ka o yammis ayi' dɔl o. Buŋ la da nye Zugsɔb maliak la ka o zi'e suor la zug ka fuoe su'ugv zanzl o nu'ugin, ka o buŋi kpen' mɔɔgi gaad. Ka Balaam pin'ili bu'ud buŋ la ye o lɛb suor pɔvɔ.

Zugsɔb maliak la da tɔlisi zi'en lombɔn'ɔd ayi' banɛ ka ba mɛ' zaŋguoma ayi' beŋ, ka suobaanlig beɛ li teŋsɔk la. Buŋ la n da nye Zugsɔb maliak la, o da miee labin zaŋguom la urig Balaam nɔbir. Ka o lɛm bu' o ya'as.

Zugsɔb maliak la da lɛn vurigi tɔlis zi'en tuon zin'ikane ka sɔ' kv nyaŋi fɛndig datiuŋ beɛ dagɔbɔga. Buŋ la da lɛn nye Zugsɔb maliak la, o da digin nɛ Balaam wɔsa teŋin, ka Balaam sunf duoe hali ka o vɔb buŋ la nɛ o dansaar. Ka Zugsɔb kɛ ka buŋ la ya'ae o nɔɔri pian' Balaam ye, "Bɔ kimm ka m maalif ka li kɛ ka fɔ bu'um nɔɔr atan' sa?" Balaam da lɛbis o ye, "Fɔ mɔrim nɛ maan galim! M ya'a mɔrin su'ugv m nu'ugin m naan kvunif nannanna." Buŋ la da lɛbis Balaam ye, "Man ka'ane fɔ meŋ buŋ onɛ ka fɔ ban'ad saŋa wɔsa ti paae zinaa? Fɔ nam mi' nye ka m maal anwa tisi fɔɔ?" Ka o lɛbis ye, "Ayei!"

Ka Zugsɔb yɔ'ɔg Balaam nini ka o nye maliak la zi'e suor la teŋsɔk ka fuoe su'ugv zanzl. Ka o igin ka vanbin teŋin. Zugsɔb maliak la da bu'os o ye, "Bɔ ka fɔ bu' buŋ la nɔɔr atan' sa? M kena ye m giŋif bɔzugɔ ken la ka' su'um m nini nii. Nɔɔr atan' ka buŋ la nyeɛm ka yuk. Buŋ la ya'a pɔ yukine, anwaa m kvunif ka basin buŋ la." Balaam da lɛbisi yɛl Zugsɔb maliak la ye, "M tɔm taal, m pa'a pɔ baŋ ye fɔ zi'ene suorin la ye fɔ geŋi ma. Nannanna li ya'a pɔ malisi fɔ m na lɛbi kul." Ka maliak la lɛbisi yɛl Balaam ye, "Dɔl nidib la keŋ, amaa yɛlim nɛ man ye fɔ yɛl si'el ma'aa." Ka Balaam dɔl Balak na'ayikpɛm la keŋ.

Balaam dá dùè bēogū=n ∅ *lɔɔ* ∅ *bùŋù* ∅ *dɔl* *Moab*

Balaam TNS rise morning=LOC CAT tie 3AN donkey:SG CAT accompany Moab

ná'-yī-kpém *lā* ∅ *kéŋ*.

chief-house-elder:PL ART CAT go.

"Balaam got up in the morning, saddled his donkey and went with the courtiers of the king of Moab."

Àmáa Wínà'am súñf dà dùè nē ón kēη lā, kà Zūg-sób máliāk
 But God heart:SG TNS rise with 3AN:NZ go ART, and Lord angel:SG
kīdīgī_ø zī'ən sūer lā zúg yé ò gīηó=ø.

meet CAT stand road:SG ART upon that 3AN obstruct=3AN.

"But God was angry that he went, and an angel of the Lord met him and stood in the road to obstruct him."

Balaam dá bàñ'ad né ò bòn, kà ò yàmmìs àyí' dōlló=ø.

Balaam TNS ride:IPFV FOC 3AN donkey:SG, and 3AN slave:PL NUM:two accompany=3AN.

"Balaam was riding his donkey, and his two slaves accompanied him."

Bòn lā dá ñyè Zūg-sób máliāk lá kà ò zī'e sūer lā zúg
 Donkey:SG ART TNS see Lord angel:SG ART and 3AN be.standing road:SG ART upon
kà fúe sò'vòg_ø zánl ò nú'ugī=n, kà ò búηì_ø kpèñ'
 and draw knife:SG CAT have.in.hand 3AN hand:SG=LOC, and 3AN cut.across CAT enter
mōogī_ø gāad.

grass:SG CAT pass.

"The donkey saw the angel of the Lord standing in the road with a drawn sword in his hand and cut across into the grass and went on."

Kà Balaam pīñ'iī_ø bō'vd búη lā yé ò léb sūer pòv.

And Balaam begin CAT beat:IPFV donkey:SG ART that 3AN return road:SG inside.

"Balaam started beating the donkey to make it return to the road."

Zūg-sób máliāk lā dá tōlìsì_ø zī'ən lòm̀b̀ò̀d àyí' b̀aǹi k̀a b̀a m̀é
 Lord angel:SG ART TNS do.next CAT stand orchard:PL NUM:two REL.PL and 3PL build
z̀àng̀ùem̀à àyí'_ø b̀ēη, k̀a s̀ùā-b̀áàñ̀l̀ìg b̀éε_̀l̀i t̀ēη-s̀ōk l̀ā.

wall:PL NUM:two CAT demarcate, and road-narrow:SG EXIST 3IN middle:SG ART.

"The angel of the Lord then stood where dividing walls had been built between two orchards and there was a narrow path between them."

Bòn lá=n dà ñyē Zūg-sób máliāk lā, ò dà m̀iē_ø l̀à̀b̀ìn

Donkey:SG ART=NZ TNS see Lord angel:SG ART, 3AN TNS squeeze CAT hide.behind

z̀àng̀ùem̀ l̀ā_ø ū̀r̀īg Balaam ǹó̀b̀ìr. K̀a ò l̀ém b̀ú'o=ø ỳá'as.

wall:SG ART CAT scrape Balaam leg:SG. And 3AN again beat=3AN again.

"When the donkey saw the angel of the Lord, it squeezed against the wall and scraped Balaam's leg. And he beat it again."

Zūg-sób máliāk lā dá lèm vūrigī ∅ tōlīs ∅ zī'en tūen
 Lord angel:SG ART TNS again shift.along CAT do.next CAT stand in.front
zīñ'-kànì kà sō' kú ñyāñī ∅ fēñdīg dātìuḡ bēē dágòbīgā=∅.
 place-REL.SG and INDF.AN NEG.IRR prevail CAT turn right or left=NEG.

"Then the angel of the Lord moved along to stand in front of a place where nobody could turn to the right or the left."

Bòḡ lā=∅ dà lèm ñyē Zūg-sób máliāk lā, ò dà dīgìn nē
 Donkey:SG ART=NZ TNS again see Lord angel:SG ART, 3AN TNS lie.down with
Balaam wōsā tēḡī=n, kà Balaam súñf dūe hālì kà ò vōb
 Balaam all ground:SG=LOC, and Balaam heart:SG rise so.far and 3AN strike
búḡ lā né ò dānsàar.
 donkey:SG ART with 3AN staff:SG.

"When the donkey again saw the angel of the Lord, it lay down along with Balaam on the ground, and Balaam was so angry he beat the donkey with his staff."

Kà Zūg-sób ké kà bòḡ lā yá'e ò nōwī ∅ piāñ' Balaam yē,
 And Lord let and donkey:SG ART open 3AN mouth:SG CAT speak Balaam that
Bō kīm kà m máalì=f kà lì ké kà fò bú'v=m nōw átáñ' sá=∅?
 what IDEO and 1SG make=2SG and 3IN let and 2SG beat=1SG time:SG NUM:three hence=CQ?
 "Then the Lord caused the donkey to open its mouth to speak to Balaam: 'Just what have I done to you to make you beat me these three times?'"

Balaam dá lèbīsō=∅ yē, Fò mōrī=m nē ∅ mâan ∅ gálìm! M yá'
 Balaam TNS reply=3AN that, 2SG have=1SG FOC CAT make:IPFV CAT joke:IPFV! 1SG if
mōrī=n sù'vḡò ò nù'ugī=n, m nāan kōv=ní=f nānná-nā.
 have=DP knife:SG 1SG hand:SG=LOC, 1SG then kill=DP=2SG now.

"Balaam replied: 'You are holding me in contempt! If I'd had a sword in my hand, I would have killed you right now.'"

Bòḡ lā dá lèbīs Balaam yē, Mān ká' né fò mēḡ búḡ ónì kà
 Donkey:SG ART TNS reply Balaam that, 1SG.CNTR NEG.BE FOC 2SG self donkey:SG RELAN and
fò bāñ'ad sāḡá wōsā ∅ tí pāe zīnāa=∅=∅? Fò nám mī' ∅ ñyē kà
 2SG ride:IPFV time all CAT after reach today=NEG=PQ? 2SG already know CAT see and
m mâal añwá ∅ tísì=fò=∅? Kà ò lèbīs yē, Áyì!
 1SG make thus CAT give 2SG=CQ? And 3AN reply that No.

"The donkey replied to Balaam: 'Am I not your own donkey that you have always been riding up until today? Have you ever known me to behave like this to you?' He replied, 'No.'"

Kà Zūg-sób yó'og Balaam nīnì kà ò ñyē málīāk lā ∅ zī'e sūer
 And Lord open Balaam eye:PL and 3AN see angel:SG ART CAT be.standing road:SG
lā tēŋ-sōk, kà fúe sò'ugò ∅ zāñl. Kà ò ígìn kà vábìn tēŋī=n.
 ART centre:SG and draw knife:SG CAT hold. And 3AN kneel and lie.prone ground:SG=LOC.
 "Then the Lord opened Balaam's eyes so he could see the angel standing in the
 middle of the road with a drawn sword in his hand, and he knelt and lay face down."

Zūg-sób málīāk lā dá bù'ēsō=∅ yē, Bó kà fù bō' búŋ lā
 Lord angel:SG ART TNS ask=3AN that, What and 2SG beat donkey:SG ART
nōor átáñ' sá=∅? M kē nā yé m gīŋí=f bō zúgō kēn lā
 time:SG NUM:three hence=CQ? 1SG come hither that 1SG obstruct=2SG because go:GER ART
kā' sóm m nīnī nī=∅. Nōor átáñ' kà bùŋ lā ñyéε=m
 NEG.BE good:ABSTR 1SG eye:PL LOC=NEG. Time:SG NUM:three and donkey:SG ART see=1SG
kà yūk. Bùŋ lā yá' pō yūkī=ní ∅ àñwáa=∅ m kōv=ní=f kà
 and deviate. Donkey:SG ART if NEG.IND deviate=DP thus=NEG 1SG kill=DP=2SG and
básī=n búŋ lā.
 release=DP donkey:SG ART.

"The angel of the Lord asked him: 'Why have you beaten the donkey these three
 times? I came here to obstruct you because your journey is not good in my eyes.
 Three times the donkey saw me and turned aside. If the donkey had not turned aside,
 I would have killed you and spared the donkey.'"

Balaam dá lèbìsì ∅ yél Zūg-sób málīāk lā yē, M tóm tâal, m pá'
 Balaam TNS reply CAT say Lord angel:SG ART that, 1SG work fault:SG, 1SG TNS
pō bāŋ yé fù zī'e nē sūerí=n lā yé fù gīŋí=mā=∅.
 NEG.IND realise that 2SG be.standing FOC road:SG=LOC ART that 2SG obstruct=1SG=NEG.
Nānná-nā, lì yá' pō mālísí=fō=∅, m ná lēbī ∅ kūl.
 Now, 3IN if NEG.IND be.pleasing=2SG=NEG, 1SG IRR return CAT go.home.

"Balaam replied to the angel of the Lord: 'I have transgressed. I did not realise that
 you were standing in the road to obstruct me. Now, if it is not pleasing to you, I will
 return home.'"

Kà málīāk lā lēbìsì ∅ yél Balaam yē, Dòl nīdīb lā ∅ kēŋ,
 And angel:SG ART reply CAT say Balaam that, Accompany person:PL ART CAT go,
àmáa yèlīm nē mán yé fù yél sī'əl má'aa.
 but say:IMP FOC 1SG:NZ that 2SG say INDEF.IN only.

"But the angel replied to Balaam: 'Go with the people, but say only what I tell you.'"

Kà Balaam dōl Balak ná'-yī-kpém lā ∅ kēŋ.
 And Balaam accompany Balak chief-house-elder:PL ART CAT go.
 "So Balaam went with Balak's courtiers."

27.2 Three Murderers

From *Kusaal Solima ne Siilima* p16. The story is clearly related to Chaucer's *Pardoner's Tale*; the fable is familiar throughout Europe, Asia and Africa, and is probably ultimately derived from a Buddhist *Jātaka* story. (Hamel and Merrill 1991.)

The style is much less formal than in the passage from KB above.

NING KUUDIBA ATAN'

Dapa atan' n da be. Ba da ane dap kanda su'unga. Ka daar yinni ka ba la'asi zin'ini gban'e ye ba duom ia budaalim la'ad n ginni kuum nidib ma'aa ka da lem tum si'ela. Ba sid due ia su'us ne zan'ana ne tiraad ne piima ne lu'ad, ne kpana ne mali su'unga n pin'ili ginni ied nidib ye ba ya'a nye so' ban ku.

Ba giligi ala ne nwadisa atan' ne dabisa atan' ba po nye nidii na kuu. Ka kpelim mor ken ne ken ne ken. Daba anu daar ba nye ne lallisa ka si'el zie sabili wuu nidne, ka ba kpeem la ye ba kem kuu o, ye o sob ya'a pun ton'e ka morne lauksia'a wusa ba na nyangi kuu o. Ka onga gingid kpe, ka onga gingid kpe, ba ti keng paae nye ka li ka'a nida, ka ane boto ka ligidi pe'el ma'aa ma'aa ma. Ka ba ye, Ato, ka nannanna nwa, ti ye ti ning ligidi nwa walla? Ka ba ye, ba na pudigne. Amaa ba ye li nar ka ba yis ligidi la n keng da'a daam na nu yiiga ka nyaan pudig ligidi la. Ka yis ligidi la bi'ela ye biig la kem da' yoor na ka ba nu.

Biig la ken la o ten'esidne on na nnig [sic] si'em ku bane kpelim anniga [sic] la ka vaae ligidi la wusa wusa n su'e, o yeli o meng ye, o na da' ne daam ka bo tikuudim n los daamin la n paae tii ba ka ba nuu kpi ka o su'e ligidi la wusa. Ka sid da' daam la ka bo tikuudim n los.

Ziisige, ka baba yi'i la kpellim la, me gban'e ne ye ba ku biig la keng daam la da'ab la ka me su'e ligidi la. Biig la n mor daam la paa na la, ka onga kiak [sic] kpe, ka on kiak [sic] kpe, n kia o ku ka yu'un zang daam la nu wan wan, li pu yuuge, ka ba wusa wusa me kpelim kpi zin'i kan la noo ka ba so'o so' pu nyangi paam la'af la baa yinni mori kule ba yaane.

Din ka Kusaas ye fu ya'a ten'es bee tumbe'ed ye fu tisi fu tiraan, fu maane fu meng ya'as la.

N̄n-kúvdìbá àtáń'.

"Three murderers."

Person-kill:AGT:PL NUM:three.

Dāpá àtáń' n dá bè. Bà dà à nē dáp-kāñdā súnjā.

Man:PL NUM:three CAT TNS EXIST. 3PL TNS COP FOC man-tough:PL well.

"There were once three men. They were really tough men."

Kà dāar yinní kà bà lá'asì ∅ zīñ'inì ∅ gbāñ'e yé bà dūem ∅ iā bódàalim
 And day:SG one and 3PL gather CAT sit CAT grab that 3PL rise:IMP CAT seek courage
lâ'ad n gīnnī ∅ k̄w nīdīb má'aa kà dā lém tòm sī'elā=∅.
 goods:PL CAT roam:IPFV CAT kill person:PL only and NEG.IMP again work INDF.IN=NEG.
 "One day they sat down to meet and decided to go and find some weaponry and go
 round looking to kill people so as never to have to work again."

Bà s̄id dùe ∅ iā s̄v̄s nē zāñ'anà nē tí-dāad nē p̄imá nē
 3PL truly rise CAT seek knife:PL with bludgeon:PL with bow:PL with arrow:PL with
l̄u'ad, nē kpānā nē mālì súḡā n p̄ñ'ilī ∅ gīnnī ∅ īəd
 quiver:PL with spear:PL with gun:PL well CAT begin CAT wander:IPFV CAT seek:IPFV
nīdīb yé bà yá' ñyē s̄' bān k̄w.
 person:PL that 3PL if find INDF.AN 3PL.CNTR kill.

"So indeed they went and sought lots of swords, bludgeons, bows, arrows, quivers,
 spears and guns and began looking round for people to find someone to kill."

Bà ḡilḡí ∅ àlá nē ñwāḡsá ∅ àtāñ' nē dáḡsà ∅ àtāñ'. Bà p̄w ñyē
 3PL go.round thus with month:PL NUM:three with day:PL NUM:three. 3PL NEG.IND find
nīdī ∅ ná k̄w=∅. Kà kpél̄im m̄or kēn nē kēn nē kēn.
 person:SG CAT IRR kill=NEG. And remain have go:GER with go:GER with go:GER
 "They went round like this for three months and three days and didn't find a person
 to kill. They carried on walking and walking and walking."

Dābá ∅ ànū dāar bà ñyē nē lāl̄lì sà kà sī'el zī'e s̄abíll̄i ∅
 Day:PL NUM:five day:SG 3PL find with far hence and INDF.IN stand black:SG CAT
w̄w̄ nīd nē, kà bà kpēēñm lā yé bà kēm ∅ k̄w=∅, yé ò s̄ob
 like person:SG like, and 3PL elder:SG ART that 3PL go:IMP CAT kill=3AN, that 3AN NULL.AN
yá' p̄òn túñ'e kà m̄or nē l̄áuk-sī'a w̄sā, bà nà ñyāñī ∅ k̄w=∅.
 if already be.able and have FOC item-INDF.IN all, 3PL IRR prevail CAT kill=3AN.
 "On the fifth day they saw something standing in the distance, black like a human
 being, and the eldest of them said that they should go and kill him; when he himself
 was ready and had every piece of equipment, they would be able to kill him."

Kà òḡā ḡīñīd kpē, kà òḡā ḡīñīd kpē, bà tì kēñ ∅
 And DEMSTAN intercept:IPFV there, and DEMSTAN intercept:IPFV there, 3PL after go CAT
pāe ∅ ñyē kà l̄i k̄ā' nīdá=∅, kà á nē b̄ótú kà l̄īḡīdī p̄ē'el
 reach CAT see and 3IN NEG.BE person:SG=NEG, and COP FOC sack:SG and money fill
mà'aa má'aa má.
 only only IDEO.

"And this one blocked this way, and that one blocked that way, but after they got
 there they saw that it wasn't a person but a bag chock full of money."

Kà bà yē, Àtò, kà nānná-nā ñwá, tì yé tì nīḡ līgīdī ñwá wālá=∅?
 And 3PL say, So.then, and now this, 1PL that after do money this how=CQ?
 "They said: 'Well, now! What are we going to do with this money?'"

Kà bà yē, bà nà pōdīg nē. Àmáa bà yé lì nár kà bà yīs līgīdī lā n
 And 3PL say, 3PL IRR share FOC. But 3PL that 3IN must and 3PL extract money ART CAT
kēḡ ∅ dá' dāam ∅ ná nū yīgá kà ñyāan pōdīg līgīdī lā.
 go CAT buy beer CAT IRR drink firstly and next share money ART.
 "And they said they'd share it. But first they said they should take some money out to
 buy beer to drink, and then share out the money."

Kà yīs līgīdī lā bī'elá yē bīḡ lā kēm ∅ dá' yōvr ná kà bà nū.
 And extract money ART little that child:SG ART go:IMP CAT buy jug:SG hither and 3PL drink.
 "And they took out a little of the money so the youngest could go and buy a jug so
 they could drink."

Bīḡ lá=∅ kēn lā, ò tēñ'esid nē ón nà nīḡ sī'em ∅ kō bání kpèlìm
 Child:SG ART=NZ go:IPFV ART, 3AN think:IPFV FOC 3AN:NZ IRR do INDEF.ADV CAT kill REL.PL remain
àní nā lā, kà vāe līgīdī lā wōsā wōsā n sō'e, ò yèlí ∅ mēḡ yē,
 there ART, and gather money ART all all CAT OWN, 3AN say 3AN self that,
ò nà dā' nē dāam, kà bó tì-kōvdím n lós dāamí=n lā
 3AN IRR buy FOC beer, and seek medicine-killing CAT immerse beer=LOC ART
n pāe ∅ tí=bá kà bà nū ∅ kpí kà ò sō'e līgīdī lā wōsā.
 CAT reach CAT give=3PL and 3PL drink CAT die and 3AN own money ART all.
 "As the youngest was travelling, he was thinking how he might kill those who stayed
 in that place and take absolutely all of the money as his own; he said to himself that
 he would buy the beer, and look for a poison to put into the beer and go and give it to
 them to drink and die so he'd possess all of the money."

Kà síd dà' dāam lā, kà bó tì-kōvdím n lós.
 And truly buy beer ART, and seek medicine-killing CAT immerse.
 "And indeed he bought the beer and sought poison to put in it."

Zī'isígē=∅, kà bà bàyí' lá=∅ kpèlìm lā mé gbāñ'e nē yé bà kō
 NEG.KNOW=NEG, and 3PL NUM:TWO ART=NZ remain ART also grab FOC that 3PL kill
bīḡ lá=∅ kēḡ dāam lā dá'ab lā, kà mé sō'e līgīdī lā.
 child:SG ART=NZ go beer ART buy:GER ART, and also own money ART.
 "Unbeknownst, the two who had stayed behind had also decided to kill the youth who
 had gone to buy the beer and themselves keep the money."

B̄ig lá=n̄ m̄or d̄āam l̄ā_∅ p̄āa n̄ā l̄ā, k̄à òḡā k̄j̄á kp̄ē,
 Child:SG ART=NZ have beer ART CAT reach hither ART, and DEMSTAN cut here,
k̄à ɔn k̄j̄á kp̄ē, n̄ k̄j̄o=∅ ∅ k̄v̄, k̄à ȳv̄ʊn z̄áj d̄āam l̄ā_∅
 and 3AN.CNTR cut here, CAT cut=3AN CAT kill, and then take beer ART CAT
n̄ū w̄án w̄án, l̄ì p̄v̄ ȳúugē=∅, k̄à b̄à w̄ōs̄ā w̄ōs̄ā mé kp̄él̄im kp̄ì
 drink IDEO IDEO, 3IN NEG.IND delay=NEG and 3PL all all also immediately die
z̄ìñ-k̄àn l̄ā n̄óo k̄à b̄à s̄ō' s̄ō' p̄v̄ ñȳāḡī_∅ p̄āam l̄ā'af l̄ā
 place-DEM.SG ART exactly and 3PL INDFAN INDFAN NEG.IND prevail CAT receive cowry:SG ART
b̄áa ȳīnn̄í_∅ m̄ōr̄i_∅ k̄ūl̄í_∅ b̄à ȳáa=n̄ē=∅.
 not.one CAT have CAT go.home 3PL house:PL=LOC=NEG.

"When the youth arrived back with the beer, this one cut him here and that one cut him there, cutting him to death, and they then picked up the beer and drank it in gulps; before long both of them died immediately in the exact same place, and none of them was able to take even a single coin home."

D̄in k̄à K̄ūs̄āas ȳé f̄v̄ ȳá' tēñ'es b̄ēε t̄óm b̄ē'ed ȳé f̄v̄ t̄is̄ì_∅
 3IN.CNTR and Kusaasi:PL that 2SG if think or act bad that 2SG give
f̄v̄ t̄ir̄āan, f̄v̄ m̄āann̄í_∅ f̄v̄ m̄ēḡ ȳá'as l̄ā.
 2SG neighbour:SG, 2SG make:IPFV 2SG self again ART.

"That's why the Kusaasi say: if you think or do evil toward your neighbour, you're doing it to yourself in return."

27.3 Proverbs

Kusaal Solima ne Siilima pp38ff.; other proverbs appear in the grammar above.

Ku'om kaadi lebisne m geegun.

Kù'øm káadi_∅ léb̄ìs̄ né m̄ ḡēoḡv̄=n.

Water bail:IPFV CAT return FOC 1SG between.legs:SG=LOC.

"Water is bailed and returns between my legs." (Charity begins at home.)

Ku'om zotne bian'ar zug.

Kù'øm zót n̄ē b̄j̄āñ'ar zúg.

Water run:IPFV FOC riverbed:SG upon.

"Water runs on mud." (i.e. what's in it for me?)

Kuga la'asidne zuorin.

Kūgá là'asìd n̄ē z̄ūør̄ī=n.

Stone:PL gather:IPFV FOC hill:SG=LOC.

"Stones build up on a hill." (The rich get richer and the poor get poorer.)

Awiak seung zi' senne.

À-wiāk sēoňg zī' sínnē=∅.

PERS-hatch rainy.season NEG.KNOW hawk:PL=NEG.

"One hatched in the rainy season doesn't know about hawks." (Fool's paradise.)

Po nye saa kuubo, ka nye saa niib.

Pō ñyē sāa kúvbō=∅, kà ñyē sāa ñîib.

NEG.IND see rain threaten:GER=NEG, and see rain rain:GER.

"Didn't see the rain coming, but did see the rain." (Wise after the event.)

Ba pu nokid na'ambinni lobigid naafo.

Bà pō nōkíd nā'-bínnì ∅ lōbígíd náafō=∅.

3PL NEG.IND take:IPFV cow-dung:SG CAT throw.at:IPFV cow:SG=NEG.

"They don't take cow dung and throw it at the cow." (Coals to Newcastle.)

Zu'om ya'a ye o na lobug, bangim ka o none kugir.

Zū'om yá' yé ò nà lōbīg, bàŋìm kà ò nò nē kūgìr.

Blind.person:SG if that 3AN IRR throw.at, realise:IMP and 3AN stand.on FOC stone:SG.

"If a blind man says he'll stone you, know that he's got a stone under his foot."

Nong daan fuug tigidne gum ka li po tigid ki'ibo.

Nōŋ-dāan fūug tìgìd nē gúm, kà lì pō tīgìd kī'ibó=∅.

Poverty-owner:SG shirt:SG sate:IPFV FOC cotton, and 3IN NEG.IND sate:IPFV soap=NEG.

"A poor man's shirt has a lot of material but not a lot of soap." (Waste not, want not.)

Balerigu zi' ye o a balerigu, ka tadim mi' ye o [a] tadim.

Bālērvgō ∅ zī' yé ò à bālērvgó=∅, kà tādīm mī' yé ò à tādīm.

Ugly:SG CAT NEG.KNOW that 3AN COP ugly:SG=NEG, and poor:SG know that 3AN COP poor:SG.

"The ugly man doesn't know he's ugly, but the poor man knows he's poor."

(i.e. self-delusion about poverty is not possible.)

Fu ya'a bood tampiing siind, fu po lem zot lieng daug nyoogo.

Fù yá' bōōd támpìiňg sīiňd, fù pō lém zòt líəŋ dāvg ñyōōgō=∅.

2SG if want rock:SG honey, 2SG NEG.IND again run:IPFV axe:SG wood:SG sympathy=NEG.

"If you want honey out of a stone, you don't feel sorry for the axeshaft."

Moodi pilig ka yu'ada be.

Mōōdī ∅ pīlìg kà yū'adā bē.

Grass:PL CAT strip.off and rafter:PL EXIST.

"The thatch has come off but the rafters remain." (Where there's life there's hope.)

Buribig kunni o ba' yirne nobkoog daar.

B̀̀-̀̀b̀̀ìg kúnní ̀̀ ò bā' yír nē nōb-kōog dāar.

Goat-young.male:SG go.home:IPFV 3AN father:SG house:SG with leg-break:GER day:SG.

"The kid goes back to his father's house on the day he breaks his leg."

Adi'e buud po zin'i na'ayiree.

À-dī'e bōvd pō zīñ'i ná'-yīré=∅.

PERS-receive innocence NEG.IND be.sitting chief-house:SG=NEG.

"He who has been declared innocent doesn't hang around the courthouse."

Ba ye balerug ka fu ye zumauk.

Bà yē bālērōg, kà f̀̀ yē zūg-máuk.

3PL that ugly:SG, and 2SG that head-crumpled:SG.

"They say 'ugly' and you say 'funnyface.'" (Six of one, half a dozen of the other.)

Bungdaug po kaasidi o tiraan tengine.

B̀̀ŋ-dāvug pō kāasídí ̀̀ ò tīrāan tēŋī=né=∅.

Donkey-male:SG NEG.IND cry.out:IPFV 3AN neighbour:SG land:SG=LOC=NEG.

"The jackass doesn't bray in his neighbour's territory."

Kpeem ane te'eg, o tigidne balaya.

Kpēēñm á nē tē'eg, ò tìgìd nē bálàyà.

Elder:SG COP FOC baobab:SG, 3AN satē:IPFV FOC stick:PL.

"An elder is like a baobab - no shortage of sticks." (Uneasy lies the head ...)

A proverb related to me by KT:

Sāan-sún á nē yī-dāan áñsìb.

Stranger-good:SG COP FOC house-owner:SG mother's.brother:SG.

"A good guest is a householder's uncle."

KT explained: Entertaining a guest gives the householder a reason to bring out all his best food and drink and enjoy himself. (The mother's brother is traditionally a generous benefactor to his sister's child.)

28 Vocabulary

Words are ordered by Short Forms. Vowel glottalisation and the distinctions *n/ñ*, *ə/e/ɛ/ε*, *i/ɨ/ɨ*, *o/ɔ* and *u/v/ʉ* are ignored in the ordering; *ŋ* follows *n*.

The abbreviations *n adj adv ideo q sv dv* stand respectively for noun, adjective, adverb, ideophone, quantifier, single-aspect verb and dual-aspect verb.

Nouns are listed under the sg. Adjectives are listed under the *ga|sɛ* class form if extant; if not, *gɔ|dɛ* or *rɛ|aa*. Dual-aspect verbs are listed under the perfective; other forms are listed only if irregular. Regular deverbal nominals are not listed. Compounds are not listed if they are regularly formed and have transparent meanings. Those that *are* listed are included under the entry for the first element. For compound adjectives see [12.8.1.1](#).

Personal and place names are not listed: see [26](#) for examples.

Binomial names of plants are mostly taken from Haaf (see References); he checked the identifications carefully with botanical experts.

Arabic words have probably all been transmitted via other languages.

A

à- personifier particle (default allomorph) [12.6](#)

āaṅdīg^a pl *āaṅdīs*^ɛ cb *āaṅd-* n. black plum tree, *Vitex doniana*

āaṅdīr^ɛ pl *āaṅdā* n. black plum fruit

āaṅs^ɛ dv. tear

àbùlā q. adv. how many-fold?

àbùyí' àbùtáñ' àbùnāasí q. adv. twice, three times etc

à-dàalúŋ^ɔ pl *à-dàalís*^ɛ *à-dàalímìs*^ɛ cb *à-dàalúŋ-* n. stork

àgṅ^{ya} ger *àaṅlím*^m sv. be something/somehow [16.12](#)

àeñ dv. get torn; resultative adj *àaṅlúŋ*^ɔ torn

à-gâvṅg^ɔ pl *à-gâaṅd*^ɛ cb *à-gāñ-* n. pied crow

àgól^{lɛ} *àgólá* adv. upwards

Àgòl^{lɛ} n. Agolle district of Kusaasi territory; n. Agolle Kusaal dialect

à-kōrā-dīəm^{ma} pl *à-kōrā-dīəm-nàm*^a n. praying mantis

àlá adv. thus

àlá q. so many; how many?

àláafv n. health; in greetings [25](#); cf *láafiyà* ← Arabic *ʔal-ʔa:fiya*

Àláasìd dâar^ɛ n. Sunday ← Arabic

Àlàṁṁisì dâar^ɛ n. Thursday ← Arabic

Àláribà dâar^ɛ n. Wednesday ← Arabic

àlá zùg^ɔ therefore [17.2.1](#)

àlópìr^ɛ pl *àlópìyà* n. aeroplane ← English

àmáa but [17.2.1](#) ← Hausa ← Arabic

àmḗǵá *adv.* really, truly

àmí *amen* ← Arabic *ʔa:mi:n*; in replies to greetings 25

à-mús^ε *pl* *à-mús-nàm^a* *n.* cat; cf Hausa *mussàa id*

ànāasí *q.* four

àní *adv.* there

àníí *q.* eight

àní nā' *adv.* there

àníǵà *adv.* promptly

ànḡ'ǵn^ε *who?* 12.4.4

àñrǵḡ^ḡ *pl* *àñrímà* *cb* *àñrǵḡ-* *n.* boat (written *aaruḡ* in the 1976/1996 NT)

āñs^ε *dv.* pluck (leaves)

āñsìb^a *pl* *āñs-nám^a* *cb* *āñs-* *n.* mother's brother

āñsīǵ^{ε/} *dv.* break at an angle

āñsíǵ^a *pl* *āñsí^ε* *cb* *āñsīǵ-* *n.* (man's) sister's child

àntù'a *pl* *àntù'ǵs^ε* *cb* *àntǵ'ǵ-* *n.* lawsuit

ànū *q.* five

àñwá *adv.* like this

ānzúrǵfà *n.* silver ← Hausa *azùrfaa*

àràkǵñ' *q.* one

àràzàk^a *pl* *àràzà'as^ε* *cb* *àràzà'-* *generally pl: n.* wealth, riches ← Arabic *ʔar-rizq*

àràzánà *n.* heaven ← Arabic *ʔal-janna*

Àrzúmà dâar^ε *n.* Friday ← Arabic

àsée *except, unless* 15 17.2.1 ← Hausa *sai*

Àsǵbtì dâar^ε *n.* Saturday ← Arabic

àsīdā *adv.* truly

àsùbá *n.* dawn ← Arabic *ʔas^í-s^íaba:ḡ*

àtán' *q.* three

Àtáláatà dâar^ε *n.* Tuesday ← Arabic

àtáǵā' *q.* three exactly

Àtínì dâar^ε *n.* Monday ← Arabic

àtǵuk^ḡ *n.* sea ← Hausa *tèeku*

àwánā' *adv.* like this

àwāǵ *q.* nine

àyí' *q.* two

áyì *no* 18.4

àyíǵā' *q.* two exactly

àyóǵǵ *q.* seven

àyúǵbù *q.* six

B

- bà* they, their (*right-bound*); *ba* them (*enclitic*) 12.4.1
- bā'* pl *bā'-nám^a* cb *bā'*- n. father 5.4
- bāa* pl *bāas^ε* cb *bà-* n. dog
- báa* (← Hausa *bâa* "not exist") in *constituent negation* 23
- bā'a* pl *bā'ab^a* cb *bà'*- n. traditional diviner; *bà'-kòlùg^o* pl *bà'-kòn^{ne}* cb *bà'-kòl-* n. diviner's bag
- bā'a* pl *bā'as^ε* cb *bà'*- n. peg to hang things on
- bà'an^{ne}* pl *bà'anà* cb *bà'an-* n. stocks (punishment)
- bàañlìg^a* pl *bàañlìs^ε* adj. narrow, slender
- bāañlíg^a* adj. quiet
- bāañlím^m* adv. quietly
- bà'ar^ε* pl *bàdà* *bà'a* cb *bà'*- n. idol
- bābá* beside *postposition* 13.5; cf *bābīr^{εl}* sphere of activity
- bàbıgā'* q. many
- bákpàę* n. week ← Hausa *bakwài* "seven"
- bàlàar^ε* pl *bàlàyà* cb *bàlà-* n. stick, staff, club
- bàlàņìr^ε* pl *bàlàņà* cb *bàlàņ-* n. hat
- bālērōg^o* pl *bālērīd^{εl}* *bālērīs^{εl}* cb *bālér-* n. ugly person; cf *lēr^ε* get ugly
- bàmmā'* these, those *demonstrative* 12.4.2
- bàn^ε* these, those *demonstrative* 12.4.2
- bán* they (*subject of ñ-clause*); *bān^ε* they, them (*contrastive*) 12.4.1
- bāñ'* dv. ride
- bānāa* pl *bānāas^ε* cb *bànà-* (*tone sic in my materials*) n. traditional "fugu" smock
- bāñ'ad^a* pl *bāñ'ad-nām^a* n. ill person
- bāñ'al^{εl}* dv. make to ride (horse, bicycle)
- bāñ'as^ε* cb *bāñ'*- n. pl as sg disease
- bàn-dāvog^o* pl *bàn-dāad^ε* cb *bàn-dà-* n. crocodile
- bān-kúsél^{lε}* pl *bān-kúsēlá* cb *bān-kúsēl-* n. lizard
- bāņ^a* pl *bāaņs^ε* cb *bāņ-* n. ring, chain, fetter
- bàņ^a* n. agama lizard
- bàņ^ε* dv. come to know
- báp* wallop!
- Bārīg^{al}* pl *Bārīs^{εl}* cb *Bār-* n. Bisa person (not only the Bareka, WK)
- bárikà* n. blessing; in greetings 25 ← Arabic *baraka*
- Bārōg^o* n. Bisa country; North 26.3
- bàs^ε* dv. go away; abandon; throw out
- Bāt^{εl}* n. Bisa language
- bàtáñ'* q. three (*after a personal pronoun*)
- bàųñù* n. found only as in *Ò kpèñ' báųñù*. He was circumcised. ← Songhay "pool"
- bàųēog^o* betrayer of secrets (cf *yēes^{εl}*)

- bàyí'* *q.* two (after a personal pronoun)
bàyópòḡ *q.* seven (after a personal pronoun)
bè ger bēlím^m (sic) *sv.* exist; be in a place 16.12
bēdīg^{el} *dv.* go rotten
bèdùg^o bēdīr^e *pl bēdà cb bēd-* *adj.* great
bēdvgū' *q.* much, a lot
bēe or 17.2.1 18.2
bèkèkèoñg^o or *bèkèoñg^o* *n.* very early morning
bèlīm^m *dv.* beg
bèlīs^e *dv.* comfort
bēn^{ne} *pl bēnā cb bèn-* *n.* end
bēñ' ger bēñ'es^e *dv.* fall ill
bēñsìg^e *dv.* serve soup
bèḡ^e *dv.* mark out a boundary
bēḡíd^e cb bēḡ- *n. pl* bean leaves, *Vigna unguiculata*; *bēḡíd nē kī'* *n.* beanleaf-and-millet, a traditional snack
bēḡír^e *pl bēḡá cb bēḡ-* *n.* brown bean
bēog^o *n.* tomorrow; *Kà bēog ḡe kà ...* The next day ...
bē'og^o bī'a *pl bē'ed^e bī'əs^e cb bē'- bīà'-* *adj.* bad
bēogó *adv.* tomorrow 17.2.1
bēogū=n^{el} *n.* morning
bèrìḡ^a *pl bēriḡis^e sic* *n.* a plant used for fibre (KED), *Hibiscus cannabinus*
bēriḡā *cb bēriḡ-* *pl* leaves of *bèrìḡ* used for soup (KED)
bēsōg^o *pl bēsīd^e cb bēs-* *n.* a kind of wide-mouthed pot
bīāñ'ar^{el} *pl bīāñ'adá bīāñ'a* *cb bīāñ'-* *n.* wet mud, black mud; riverbed
bīāḡũñk^o *pl bīāñ'ad^e cb bīāñ'-* *n.* shoulder
bīól^{le} *pl bīólá* *adj.* naked
bīəł^e *dv.* accompany
bī'əlá *q.* a little; *bī'əl bī'əl* *q. and adv.* a very little; little by little
bī'əm^m *pl bī'əm-nām^a bī'əmmā* LF *cb bī'əm-* *n.* enemy
bīən^{ne} *pl bīənā* *cb bīən-* *n.* shin
bīər^{el} *pl bīēyá* *cb bīā-* *n.* elder sibling of the same sex
bī'əs^e *dv.* doubt
bīḡis^e *dv.* show, teach
bīḡ^a *pl bīis^e cb bī- bī-* *n.* child; *bī-díbiḡ^a* *n.* boy; *bī-līa* *n.* baby; *bī-nà'ab^a* *n.* prince;
bī-pīt^{a/} *pl bī-pītí^b* *cb bī-pīt-* *n.* father's younger brother; *bī-póḡ^a* *n.* girl
bī'ig^e *dv.* ripen, become pregnant
bīlíf^o *pl bīlí* *cb bīil-* *n.* seed
bīlím^m *n.* childhood
bīū^{m/} *cb bī-* *n.* soup, stew
bī'isím^m *n.* milk (human or animal)

- bì'isìr^ε* pl *bì'isà* cb *bì'is-* n. woman's breast
bìl^a pl *bìbìs^ε* cb *bìl-* or *bì-* adj. little, small
bìlìg^ε dv. roll (transitive)
bìlìm^m dv. roll (intransitive)
bìmbìm^{mε} pl *bìmbìmà* cb *bìmbìm-* n. altar NT (KED: mound or pillar of earth)
Bìn^{nε} pl *Bìm^{ma}* cb *Bìn-* n. Moba, Bimoba person (not only Bemba, WK)
Bìn^{nε} n. Moba language
bìn^{nε} n. excrement
Bìuη^o n. Moba country
bò dv. seek; *bòòd^a* ipfv used for: want, like, love (sexual, romantic); ipfv ger *bòòdìm^m*
 will 9.2.1.4
bō cb *bò-* what? why? 12.4.4; *bò-būudī* what sort of ..?; *bō-zúgō* because 17.2.1,
 why? 13.6; *bò-wìn^{nε}* what time of day?; *bō kím* "exactly what?"
bòbìg^ε dv. wrap round, tie round
bòdìg^ε dv. lose, become lost
bòdòbòdò n. bread (? ultimately ← English)
bòk^o pl *bò'ad^ε* cb *bù'à-* n. pit
bōsīr^ε pl *bōsā* cb *bòs-* n. puff adder
bōtō n. sack
bō' dv. beat
bù'àk^ε dv. split
bò'ar^ε pl *bù'àa* cb *bù'à-* n. hole
bō'ar^{ε/} pl *bù'áa* cb *bù'ā-* n. skin bottle
bòd^ε ger *būdīg^a* *būdōg^o* dv. plant seeds
bòdàalìm^m n. manhood, courage
bùdìm^m dv. get confused
bùdímís^ε n. confusion
bù'e dv. pour out
bòg^ε dv. get drunk ← Hausa *bùgu*
bōgōd^a n. client of a *bā'a* traditional diviner
bògvlìm^m dv. cast lots
bōgūr^ε pl *bōgā* cb *bòg-* n. dwelling-place of a *wīn^{nε/}* localised spirit; also a *wīn^{nε/}* as
 a *sīgīr^{ε/}* 26.2 inherited from one's mother's family
bùgúm^m cb *bùgōm-* *bùgúm-* n. fire; *Bùgúm-tōñr^ε* n. Fire Festival
bōgōs^{a/} sv. be soft
bōgvsíg^a *bōgvsír^ε* pl *bōgvsá* cb *bōgōs-* adj. soft, weak
bōgvsígā[/] adv. softly
bōgvsím^m n. softness, weakness
bōk^{ε/} dv. weaken
bòk^ε dv. cast lots
bùl^ε dv. germinate, ooze

- būl*^{lɛ} *pl būlā* *n.* shoot, sprout
bùl^ɛ *dv.* astonish
Bùl^{lɛ} *n.* Buli language
Bùlìg^a *pl Bùlìs*^ɛ *cb Bùl-* *n.* Balsa person
bùlìg^a *pl bùlìs*^ɛ *cb bùl-* *n.* well, pond
bùmbàrìg^a *pl bùmbàrìs*^ɛ *cb bùmbàr-* *n.* ant
bùn^ɛ *dv.* reap, harvest
bōn^{ne/} *pl bōnā bōn-nám*^a *cb bōn-* *n.* thing (concrete or abstract); *bōn-búvdìf*^o *n.* plant; *bōn-gíŋ*^a *n.* short chap (informal, joking); *bōn-kóñbùg*^o *pl bōn-kóñbìd*^ɛ *cb kóñb-* (*sic*) *n.* animal; *bōn-kúdvùg*^o *n.* old man
bōn-dâar^ɛ which day? 13.6
bùŋ^a *pl bùmìs*^ɛ *cb bùŋ-* *n.* donkey
bùŋ^ɛ *dv.* take a short cut
bùø^ɛ *dv.* call, summon; *Ò yō'vr bûø* *X.* She is called X. 16.9.2
bùø^ɛ *pl bùyèyà* *cb bùyà-* *n.* grain store, silo
bū'ø^ɛ *dv.* ask; *ger bū'ø*^o *n.* question; *bu'oskaja* this question (Jn 18:34)
bù-pīgā *q. adv.* ten times
bōráa *n.* man, male adult (in ILK, but characteristically *Toende* Kusaal; see *dāy*)
bōrɪyá *n.* Christmas ← Twi/Fante *bronya*
bòrkìn^a *pl bòrkìn-nàm*^a *cb bòrkìn-* *n.* free person; honourable person ← Songhay
Bòsâañ^ɛ *n.* Bisa language
Bòsáj^a *pl Bòsâañs*^ɛ *cb Bòsāj-* *n.* Bisa person
būtīŋ^a *pl bütīs*^ɛ 2.3; *cb bütìŋ-* *n.* cup (*in general; originally "seed-planting [cup]"*)
bōvd^ɛ *n. pl as sg* innocence
būudī *cb bүүud-* *n.* kind, sort, ethnic group
bōvg^a *pl bōvs*^ɛ *cb bō-* *n.* goat; *bō-dìbìg*^a *n.* male kid

D

- dà* before two days ago, *tense particle* 16.3.1
dā not with imperative mood 16.5
dàa day after tomorrow, *tense particle* 16.3.1
dāa before yesterday, *tense particle* 16.3.1
dà' *dv.* buy
dà'a *pl dà'as*^ɛ *cb dà'-* *n.* market
dà'abì^ɛ *n.* slave
dàalim^m *n.* masculinity
dàalim^m *pl dàalímìs*^ɛ *n.* male organs
dāam^{ml} *cb dā-* *n.* millet beer, "pito"; *dā-nûur*^ɛ *n.* beer-drinking; *dā-bìŋ*^{ne} *cb dā-bìŋ-* *n.* beer residue; NT yeast (cf *bīn*^{ne})
dāam^m *dv.* disturb, trouble ← Hausa *dāamaa*
dāan^a *pl dàan-nàm*^a *cb dàan-* *n.* owner of ... 12.7.2

- dāar*^ε pl *dābá* cb *dà-* n. day (24-hour period); *dà-pīigā* n. ten days
dāa-sí'ērē perhaps 17.2.1
dàbīēm^m tone sic n. fear
dàbīog^o pl *dàbīəd*^ε cb *dàbìà-* n. coward
dàbìsìr^ε pl *dàbìsà* cb *dàbìs-* n. day (as one of several)
dādúk^o n. a kind of large pot
dā'e[/] dv. push; blow (of wind)
Dàgâad^a pl *Dàgâadìb*^a *Dàgâad-nàm*^a cb *Dàgâad-* n. Dagaaba person (L prefix sic)
Dàgbān^{ne/} pl *Dàgbām*^{ma/} cb *Dàgbān-* n. Dagomba person
Dàgbān^{ne/} n. Dagbani language
Dàgbāuŋ^{o/} n. Dagomba country, Dagbon
dàgòbìg^a n. left-hand; *yà dàgòbìg*^a South KB 26.3
dāká pl *dāká-nàm*^a cb *dāká-* n. box ← Hausa *àdakàa*
dàkīg^a pl *dàkīis*^ε cb *dàkì-* n. wife's sibling; *dàkì-dāu* n. wife's brother; *dàkì-puāk*^a n.
 wife's sister; *dàkì-tùà* n. wife's sister's husband
dà-kòõnr^ε pl *dà-kòñyà* cb *dà-kòñ-* n. unmarried son 26.1
dàm^m ipfv *dàmmìd*^a dv. shake
dàmà'a n. liar cf *mà'*
dàmà'am^m n. lie, untruth, lying
dàmà'ar^ε n. lie, untruth
dāmpōsāar^ε n. stick
dànkòŋ^o n. measles
dànsàar^ε n. staff, club
dà-pāal^{a/} n. young man, son
dà-sāŋ^a pl *dà-sāañs*^ε *dà-sām*^{ma} cb *dà-sàŋ-* n. young man
dà-tāa pl *dà-tāas*^ε cb *dà-tà-* n. enemy
dàtìuŋ^o n. right-hand; *yà dàtìuŋ*^o North KB 26.3
dāu pl *dāp*^a cb *dāu-* *dāp-* 5.2 n. man (as opposed to woman)
dāvŋ^o pl *dàad*^ε cb *dà-* n. piece of wood, log; pl also: wood (material); *dà-kīəd*^a n.
 wood-cutter; *dà-kpī'əd*^a n. carpenter; *dà-pōvdír*^ε n. cross-piece, pl *dà-pōvdá* n.
 used as sg cross NT
dāvŋ^o pl *dāad*^ε cb *dà-* adj. male
dàwàlìg^a n. hot humid season before the rains
dàwān^{ne/} pl *dàwāná* cb *dàwān-* n. pigeon
dàyāam^{ma} pl *dàyāam-nám*^a cb *dàyāam-* n. husband's parent; *dàyāam-dāu* n. husband's
 father; *dàyāam-puák*^a n. husband's mother
dàyūug^{o/} pl *dàyūud*^{ε/} cb *dàyū-* n. rat
dèbìr^ε pl *dèbà* n. mat, pallet, bed
dèeg^a pl *dèes*^ε n. warthog
dēēŋ^a pl *dēēñs*^ε *dēēmīs*^ε *dēēnā* cb *dēēŋ-* q. first
dēl^{la/} ger *dēllóg*^o *dēllím*^m sv. be leaning on something (of a person)

- dèlìm^m* *dv.* begin to lean on something (of a person)
dēŋ^a *pl* *dēmīs^ε* *cb* *dēŋ-* *n.* accidental bruise; defect
dēŋ^ε *dv.* go, do first
dēŋìm beforehand, *preverb* 16.8
dì it, its (*right-bound*) 12.4.1 = *lì*
dì *ipfv* *dīt^a* *imp* *dìm^a* *dv.* eat, receive; *ger* *dīb^o* *n.* food; *Ò dì pū'ā*. He's married a wife. *Ò dì ñyán*. She's ashamed.
djā^a *dv.* get dirty
djā'ad^{εl} *n.* dirt
djē^l *dv.* receive, get
djəm^{ma} *pl* *djəm-nàm^a* *cb* *djəm-* *n.* wife's parent; also in polite address to an unrelated person of opposite sex and similar or greater age than oneself; *djəm-dāy* *n.* wife's father; *djəm-puāk^a* *n.* wife's mother
dj'əm^m *dv.* play, not be serious
dj'əmà *n.* festival
dj'əs^{εl} *dv.* receive (many things)
dīgī^{ya/} *ger* *dīk^{a/}* *KT* *dīgī^{εl}* *WK* *sv.* be lying down
dīgísá *n.* *pl* lairs
dīgī^{εl} *dv.* lay down
dìgìn^ε *dv.* lie down
dìgìr^ε *pl* *dìgà* *cb* *dìg-* *n.* dwarf
dìus^ε *dv.* feed; *agt* *dìus^a* *n.* glutton
dìusúŋ^o *pl* *dìusímà* *dìusís^ε* *cb* *dìusúŋ-* *n.* spoon
dìm^a dummy head pronoun, animate *pl*; *dìn^{ne}* inanimate *sg* 12.4.7
dín it (*subject of ñ-clause*) 12.4.1
dīn^ε it (*contrastive*) 12.4.1 = *līn^ε*
dìndēog^{o/} *pl* *dìndēed^{εl}* *cb* *dìndē-* *n.* chameleon
dìndūs^a *n.* glutton
dìn zúg^o therefore 13.6
dītúŋ^o *n.* right-hand (see *dàtìyŋ^o*)
dì-zōrōg^{o/} *pl* *dì-zōrá* *cb* *dì-zōr-* *n.* crumb
dōl^{la/} *ger* *dōllím^m* *sv.* accompany in a subordinate role; *Ànó'ònì dōllí fò?* Who has come with you? (to an elderly patient.) *Bà dōl nē tāabā*. They went together.
dōlīg^{εl} *dv.* make accompany, send along with
dōlīs^{εl} *dv.* investigate, trace
dōñlīg^{εl} *dv.* stretch oneself
dòñ'os^ε *dv.* water plants
dòog^o *pl* *dòod^ε* *dòt^ε* *cb* *dò-* *n.* house, hut; clan; *dòog bìg^a* *n.* housecat
dòoŋg^o *pl* *dòoŋd^ε* *cb* *dòŋ-* *n.* dawadawa fruit
dū *ipfv* *dūt^{a/}* *imp* *dùm^a* *dv.* go up
dū'à^a *dv.* bear, give birth, beget; *agt* *dū'ad^a* *n.* elder relation

dù'al^ε *dv.* make interest (of a loan)

dṽ'am^m *n.* birth

dùañ *pl* *dòṽñs*^ε *cb* *dòñ-* *n.* dawadawa *Parkia clappertoniana* [*biglobosa*]

dú'atà *n.* doctor ← English

dūe^l *dv.* raise, rise

dṽg^ε *dv.* cook

dṽk^{o/} *pl* *dṽgṽd*^{ε/} *cb* *dṽg-* *n.* cooking pot; *dṽg-pé'elà* *n.* full pots; *dṽgṽb dút* cooking pots

dùm^m *dv.* bite

dūm^{mε} *dūm*^{nε} *pl* *dūmā* *cb* *dùm-* *n.* knee

dòndùug^{o/} *pl* *dòndùud*^ε *cb* *dòndù-* *n.* cobra

dūnyā *cb* *dūnyá-* 5.5 *n.* world ← Arabic *dunya*:

dūnná *adv.* this year

dūḡ^a *pl* *dūmīs*^ε *cb* *dūḡ-* *n.* mosquito

dūø^{ε/} *pl* *dūēyá* *cb* *dūā-* *n.* stick

dū'ø^{ε/} *dv.* lift up, honour

dūr^a *sv.* be many

dū'un^{ε/} *dv.* pass water

dū'uním^m *cb* *dū'un-* *n.* urine

dṽvsá *n. pl.* steps

E

ēēñ yes 18.4

ēēñ or *ēēñ tí* see *ñyēē*, *ñyēē tí* habitually *auxiliary tense marker* 16.3.1

ēēñb^{ε/} *dv.* lay a foundation

ēēñbír^ε *n.* foundation 8.1.2

èñbìs^ε *dv.* scratch

èñd^ε *dv.* block up, plug up

èñdìg^ε *dv.* unblock, unplug

ēñrīg^{ε/} *dv.* shift along (e.g. a bench)

F

f^o you *sg* (*enclitic*) 12.4.1

fāañ *q.* every

fāeñ^l *dv.* save; *agt* *fāañd*^{al} *fāañgíd*^a *n.* saviour 11.1

fāñ *dv.* grab, rob

fáss *ideo.* for *pìə̀lìg*^a white

fēεg^{ε/} *dv.* (of food) get old, cold

fēñdīg^{ε/} *dv.* turn round (*tone uncertain*)

fēñ'og^{o/} *pl* *fēñ'ed*^{ε/} *cb* *fēñ'-* *n.* ulcer

fìə̀b^ε *dv.* beat

fì'ig^ε *dv.* cut off

fīñ q. a little (liquid)

fitlá n. lamp ← Hausa *fītilàa*; in KB adapted to the *re|aa* class: *sg fitir pl fita*

fṵṵs^{el} dv. blow, puff (wind); *ger fṵṵsúḡ^o n.* hypocrisy NT

fṵ you, your sg (right-bound) 12.4.1

fṵe dv. draw out

fṵfṵm^{mε} pl fṵfṵmā cb fṵfṵm- n. envy; stye (believed to result from envy)

fṵn you sg (as subject of ñ-clause); fṵn SF fṵnè LF you sg (contrastive) 12.4.1

fṵuḡ^o pl fṵud^{el} fṵt^{el} cb fṵ- n. shirt, clothing; *pl also:* cloth

G

gàad^ε dv. pass, surpass 19.1

gáafàrà sorry formula 25 (Hausa *gaafaràa*, ultimately ← Arabic)

gà'al^ε dv. button up

gà'am^m dv. grind teeth

gāañ^l pl gāañs^{el} cb gāñ- n. Nigerian ebony *Diospyros mespilliformis*

gàas^ε dv. pass by

gādṵ gādṵḡ^o pl gādṵ-nám^a gāt^{el} cb gād- gādṵ- n. bed ← Hausa *gadoo*

gàlìm^m dv. joke

gàlìs^ε dv. exceed, get to be too much

gāñr^{el} pl gāñyá cb gāñr- n. fruit of Nigerian ebony

gàṅ^ε dv. step over

gāṅ^{el} dv. choose

gbāñ'e^l dv. catch

gbáñyà'a n. lazy person 11

gbáñyà'am^m n. laziness; 1976 NT *gonya'am*

gbàṁṅ^o pl gbàná cb gbàn- gbàṁṅ- n. book WK

gbāṁṅ^o pl gbāná cb gbān- gbāṁṅ- n. animal skin WK; animal skin, book DK

gbēēñm^m cb gbēñ- n. sleep

gbè'og^o pl gbè'ed^ε gbèdà cb gbè'- n. forehead; shore of a lake

gbēr^{el} pl gbēyá cb gbēr- n. thigh

gbīgīm^{nε} pl gbīgīmā cb gbìgìm- n. lion

gbìn^{nε} pl gbìnà cb gbìn- n. buttock; base (e.g. of a mountain); *postposition 13.5*

gbìn-vṵṵñr^ε n. anus

gbīs^ε dv. sleep

gēel^{el} dv. place between one's legs (Pattern H)

gēēñm^m dv. go mad, madden

gēēñmís^ε n. pl as sg madness

gēēñṅ^a pl gēēñmís^ε n. madman

gél^{lε} pl gēlá cb gēl- n. egg

gēñ dv. get tired; *resultative adj gēēñlṵṅ^o* tired

gēñ' dv. get angry

- gēog*^o *n.* place between one's legs (Pattern A *sic*)
gīñlím^m *n.* shortness
gìk^a *pl* *gìgìs*^ε *cb* *gìg-* *n.* dumb person
gìgìlím^m *dv.* become dumb
gīlīg^{ε/} *ipfv* *gīn*^{na/} *dv.* go around 7.1
gīm^{ma/} *sv.* be short
gīη^a *pl* *gīmā* *cb* *gìη-* *adj.* short
gìη^ε *dv.* scrimp
gīη^{ε/} *dv.* surround, intercept, obstruct
gīηā *adv.* shortly
gīηīlím^m *n.* shortness
gōdīg^{ε/} *gò'ɔn*^ε *dv.* look up
gōl^{la/} *gōr*^{a/} *gō'e*^{ya/} *sv.* be looking up
gòñ *dv.* hunt; *ipfv* *gòwñd*^a wander, *ger* *gòwñdìm*^m wandering 9.2.1.4
Gòɔg^a *pl* *Gòɔs*^ε *n.* clan name
Gòɔg^o *n.* place of the *Gòɔs*^ε Goosi clan
gò'ɔn^ε *dv.* look up
gōr^{a/} *sv.* be looking up
gōs^ε *ipfv* *gōsīd*^{a/} *gōt*^{a/} *imp* *gòsìm*^a *gòm*^a *ger* *gòsìg*^a *dv.* look; *agt* *gōt*^{a/} *n.* seer, prophet
gū' *dv.* guard, protect
gùl^ε *ipfv* *gùn*^{na} *dv.* suspend
gùl^{la} *ger* *gūlīb*^o *sv.* be suspended
gùllimm SF *gùllimnè* LF only; *emphatic* 24.7
gùm^{mε} *pl* *gùmà* *n.* kapok fruit; *also* thread WK
Gùm^{mε} *n.* place of the clan *Gùm-dìm*^a
gūmpōzēr^{ε/} *pl* *gūmpōzēyá* *cb* *gūmpōzér-* *n.* duck
gùñ'a *pl* *gòñ'ɔs*^ε *cb* *gòñ'-* *n.* thorn; Acacia; *gòñ'-sābílíg*^a Acacia hockii
gùngūm^{mε} *n.* kapok material
gùη^a *pl* *gùmìs*^ε *cb* *gùη-* *n.* kapok tree *Ceiba pentandra*
gūr^{a/} *ger* *gūrím*^m *sv.* be on guard, watch for 22.1
Gūrín^{nε} *n.* Farefare language
Gūríη^a *pl* *Gūrís*^ε *n.* Farefare person
gū'ul^{ε/} *dv.* put on guard
gù'vlim^m *dv.* become half-ripe
gùvr^ε *pl* *gùyà* *cb* *gù-* *n.* upland; bank of river
gōvr^ε *pl* *gūyā* *cb* *gù-* *n.* ridge of back
gū'us^{ε/} *dv.* take care, watch out
gū'us^ε *n.* *pl* half-ripe fruit

H

hālí until, up to, even 15 17.2.1 19 24.7; ? ← Arabic *ħatta*;; *hālí bāa* even

I

īā dv. seek
īāñ'as^{ε/} dv. leap
īāñk^{ε/} ger *īāñ'ad^{al/}* agt *īāñ'ad^{al/}* dv. leap, fly 7.1
īgī^{ya/} ger *īk^{al/}* KT *īgīr^{ε/}* WK sv. be kneeling
īgīl^{ε/} dv. make to kneel
īgìn^ε dv. kneel down
íul^{lε} pl *īulá* cb *īul-* n. horn
īsīr^ε pl *īsā* cb *īs-* n. scar
īsìg^ε dv. get up early

K

kà and, that 17.2
kā dv. bail (water)
kāab^{ε/} dv. offer, invite
kāal^{ε/} dv. count
kāas^{ε/} dv. cry out, weep; (cock) crow
kà'asìgè LF only; sv. not exist 16.5
kābīg^{ε/} dv. ladle out (liquid)
kābīr^{ε/} ger *kābírí* dv. call out asking for admission 25
kàd^ε dv. drive away; *kàd sàríyà* dv. judge 16.9.1; agt *sàríyà-kāt^a* n. judge NT
kā'ε ger *kā'alím^m* sv. not exist, not be, not have 16.5 4.3
kāl^{lε/} pl *kālá* cb *kāl-* n. number
kàhgā^l q. few
kàm^a q. every
Kàmbùnìr^ε n. Twi language
Kàmbùn^a pl *Kàmbùmìs^ε* cb *Kàmbùn-* n. Ashanti person
kàn^ε this, that *demonstrative* 12.4.2
kàñb^ε ger *kāñbīr^ε* dv. scorch
kāñdōg^o adj. fat, tough (person)
kàñā^l this, that *demonstrative* 12.4.2
kār^a sv. be few
kàrìm^m dv. read
kàsēt^{al/} n. witness; testimony (Mooré *kàsétò* "proof, testimony"; probably ultimately
 ← French *cachet*; pl *kàsētíb^a* witnesses)
kē ipfv *kēt^{al/}* imp *kèl^a* dv. let, cause to ... 7.1 19.2
kèèkè pl *kèèkè-nàm^a* cb *kèèkè-* n. bicycle ← Hausa *kèèkè*
kèes^ε dv. say farewell to
kèlìg^ε or *kèlìs^ε* dv. listen

kēñ ipfv *kēn*^{al} imp *kèm*^a ger *kēn*^{ne/} dv. come 7.1; always with *nā* 16.11; *kēn kēn* welcome! 25

kēŋ^{el} ipfv *kēn*^{na/} imp *kèm*^a (disambiguated with *sà* 16.11) dv. go; walk 7.1; agt *kēn*^{na/} n. traveller

kérifà or *kárfà* ← Hausa *karfèe*; in telling time, e.g. *kérifà àtáñ'* three o'clock
kì' cb *kī-* *kā-* n. cereal, millet; *kì-dà'ar*^ε pl *kì-dà'adà* n. purchased millet; *kā-wēnnīr*^ε
pl *kā-wēnnā* cb *kā-wén-* n. corn

kìà dv. cut

kīdīg^{el} dv. cross over, meet; *À-Kīdīgī Bū'os* n. the constellation Orion

kī'ib^{o/} n. soap; WK has instead the Mampruli loan *kībú* cb *kīb-*

kīñf^o pl *kīnī* n. millet seed

kìs^ε dv. listen

kī's^{el} dv. deny

kìkàm^{me} pl *kìkàmà* n. fig

kìkàŋ^a *kìnkàŋ*^a pl *kìkàmìs*^ε cb *kìkàŋ-* n. fig tree *Ficus capensis*

kìkīrīg^{al} pl *kìkīrīs*^{el} cb *kìkīr-* n. "fairy" in local English; protective spiritual beings associated with a person (three for a man, four for a woman because of the dangers of childbirth.) Wild *kìkīrīs*^{el} hostile to man live in the bush: "Their feet are attached backwards to confuse trackers." WK; *kìkīr-bé'ed*^ε n. NT evil spirit, demon (KB just uses *kìkīrīg*^{al})

kīlīm^{m/} dv. become, change into

kìm^m dv. tend flock, herd; agt *kòñb-kīm*^{na} n. herdsman, shepherd

kīr^ε ger *kìkírùg*^o *kīrīb*^o dv. hurry, tremble

kīs^{al} ger *kìsùg*^o agt *kīs*^{al} *kīsīd*^{al} sv. hate

kìsùg^o adj. hateful, taboo

kò dv. get broken, break (intransitive); resultative adj *kòólúŋ*^o broken

kòbīgā (SF and LF identical) q. one hundred; *kòbīsí* two hundred

kòbīr^ε pl *kòbā* cb *kòb-* n. bone

kòdīg^{el} dv. slaughter (one animal) by cutting its throat

kòdú n. banana ← Twi *kwadu*

kòl^ε dv. put something around the neck

kòlibìr^ε pl *kòlibà* n. bottle

kòlīg^a pl *kòlīs*^ε cb *kòl-* n. river; *kòlvgō=n nó-dâvg*^o n. crayfish

kòlùg^o pl *kòn*^{ne} cb *kòlùg-* 5.2 n. sack, bag

kòm^{m/} cb *kòm-* n. hunger

kòñbōg^o pl *kòñbīd*^ε cb *kòñb-* (also used as cb of *bōn-kòñbùg*^o animal) n. animal hair or human body hair; cf *zūəbúg*^o; *kòñb-kīm*^{na} pl *kòñb-kīmmīb*^a n. shepherd, herdsman

kòñ'okō adv. alone, by oneself

kòñs^ε dv. cough

kòñsìm^m dv. cough

- kò'og^ε* *dv.* break (*transitive or intransitive*)
kò'os^ε *dv.* break several times
kōt^{ε/} *dv.* slaughter (several animals) by cutting their throats
kòtāa^{nε} at all; *emphatic* 24.7
kótò *n.* lawcourt ← English, probably via Hausa
kpà' *dv.* nail, fasten
kpà'a *pl kpà'a-nàm^a* *n.* rich person
kpāad^{a/} *pl kpāadíb^a* *cb kpāad-* *n.* farmer, cultivator
kpà'am^m *n.* riches
kpāañm^{m/} *cb kpāñ-* *n.* grease, ointment; *kpāñ-sóñ'odìm^m* *n.* anointing oil
kpàkūr^{ε/} *pl kpàkōyá* *cb kpàkūr-* *n.* tortoise
kpān^{nε} *pl kpānā* *cb kpàn-* *n.* spear
kpāñdìr^ε *pl kpāñdà* *cb kpāñd-* *n.* baboon
kpàr^ε *dv.* lock
kpār-kêoňg^o *pl kpār-kêeňd^ε* *cb kpār-kéñ-* *n.* rag
kpá'vη^o *pl kpī'iní* *cb kpā'-* *n.* guinea fowl
kpē *adv.* here
kpēeňm^m *pl kpēeňm-nàm^a* *cb kpēeňm-* *n.* elder
kpēeňm^{ma/} *sv.* be older than
kpēlá *adv.* here
kpèlìm still; immediately after, *preverb* 16.8
kpèlìm^m *dv.* remain
kpèn *reduced form of the preverb kpèlìm*
kpēñ' *dv.* enter
kpēñdīr^{ε/} *pl kpēñdá* *cb kpēñd-* *n.* cheek
kpēñ'es^ε *dv.* make enter
kpè'η^ε *dv.* strengthen
kpēoňη^o *n.* seniority
kpì *dv.* die; *resultative adj kpìlúη^o* dead
kpì'a *pl kpì'əs^ε* *cb kpìà'-* *n.* neighbour
kpìà' *dv.* shape wood with axe etc
kpì'e *dv.* approach
kpī'əm^{ma/} *sv.* be strong, hard
kpìibìg^a *pl kpìibìs^ε* *cb kpìib-* *n.* orphan
kpìig^ε *dv.* go out (fire)
kpī'ílím^m *dv.* finish, come to an end
kpī'im^{m/} *pl kpī'imís^ε* *cb kpī'im-* *n.* dead person, corpse
kpìis^ε *dv.* quench (fire)
kpīkpīn^{na/} *pl kpīkpīnníb^a* *cb kpīkpín-* *n.* merchant
kpī'oη^o *pl kpī'əmā* *cb kpī'oη-* *adj.* strong, hard
kpìsìnkpìl^{lε} *pl kpìsìnkpìlà* *cb kpìsìnkpìl-* *n.* fist

- kpìsòkpìl*^{le} *n.* fist
kpòkpàr^e *pl kpòkpàrà n.* palm tree fruit
kpòkpàrìg^a *pl kpòkpàrìs*^e *cb kpòkpàr-* *n.* palm tree, *Borassus akeassii/aethiopum*
kpòkpàrùg^o *pl kpòkpàmà cb kpòkpàrùg-* *n.* arm, wing
kò not; *negates irrealis mood* 16.5
kō *dv.* kill (= Mooré *kú*)
kō *dv.* gather, threaten (of rain): *Sāa kú yā.* It looks like rain (= Mooré *kú*)
kūā *dv.* hoe, farm
kō'alíṅ^a *pl kō'alímìs*^e *kō'alís*^e *cb kō'alíṅ-* *n.* sleeveless traditional smock
kùd^e *dv.* work iron
kùdìg^e *dv.* shrivel up, dry out, age
kōdīm^m *n.* the olden days; *also for kōlīm qv*
kōdōg^o *kōdīr*^e *pl kōdā kōt*^e *cb kōd-* *adj.* old
kūdōg^o *pl kūt*^e (used as sg 12.2) *cb kūt-* *n.* iron, nail; *sg only in names* 26.2
kūgūr^{el} *pl kūgá cb kūg-* *n.* stone
kōk^a *pl kūgūs*^e *cb kōg-* *n.* chair
kòk^a *n.* ghost
kōk^{al} *n.* mahogany tree, *Khaya senegalensis*; cf Hausa *kuukàa*
kòkòṁ^{me} *pl kòkòṁà cb kòkòṁ-* *n.* leper
kòkōr^{el} *pl kòkōyá cb kòkōr-* *n.* voice
kòkpàrìg^a see *kpòkpàrìg*^a *id*
kūl^e *ger kūlīg*^{al} *dv.* return home; *transitive marry (woman subject, man object)*
kōlīm always, *post-subject particle* 17.2.3
kòlìṅ^a *pl kòlìṁìs*^e *kòlìs*^e *cb kòlìṅ-* *n.* door
kòm^m *dv.* cry, weep
kūm^m *cb kùm-* *n.* death; *kùm-vō'vgír*^e *n.* resurrection NT
kòndò'ar^e *pl kòndò'adà cb kòndù'à-* *n.* barren woman
kòndòṅ^a *pl kòndòṁìs*^e *kòndòṁà n.* jackal, hyena
kù'om^m *cb kù'à-* *n.* water; *kù'à-nūud*^{el} *n.* thirst; *kù'à-ñwīg*^{al} *pl kù'à-ñwīis*^{el} *n.*
 current in a river
kùø^e *dv.* sell
kòrkōr^{el} *pl kòrkōyá cb kòrkōr-* *n.* pig
Kūsáa *pl Kūsáas*^e *cb Kūsá-* *n.* Kusaasi person
Kūsáal^e *n.* Kusaal language
Kūsâvg^o *n.* Kusaasi country
Kòtān^{ne/} *pl Kòtām*^{ma/} *cb Kòtān-* *n.* member of WK's clan
Kòtāṅ^{o/} *n.* country of clan *Kòtām*^{ma/} Kutamba
kōv or 17.2 18.2 ← Hausa *koo*
kūug^{al} *kūug*^{o/} *pl kūus*^{el} *cb kū-* *n.* mouse
kòvl^e *dv.* get drunk

L

lā' definite article 12.8.5

là' dv. laugh

lā'af^o n. cowrie; pl *līgīdī* n. cowries, money; cb *līg- là'-*; *là'-bīəlíf*^o n. small coin

láafiyà n. health ← Arabic *ʔal-ʔa:fiya*; replaced by *laafe láafi* in 1996 NT and KB

là'am together, preverb 16.8

là'am^m dv. associate with; together with 19.1

là'as^ε dv. gather together (transitive); *Bà là'as tāabā* They gathered together.

làbāar^ε cb *làbà-* n. news ← Arabic *ʔal-ʔaxba:r*

làbì^{ya} sv. be crouching, hiding behind something (cf Hausa *labèe* "crouch behind something to eavesdrop" 11.1)

làbìl^ε dv. make crouch behind something

làbìn^ε dv. crouch behind something

làbìs^ε dv. walk stealthily

lābīs^{al} sv. be wide

lābīsīg^a *lābīsír*^ε pl *lābīsá* cb *lābīs-* adj. wide

lābīsím^m n. width

lāk^{εl} dv. open (eye, book)

lāl^{la/} sv. be distant

lālīg^{εl} dv. get to be far, make far

lālíl adv. far off

lālínj^a pl *lālís*^ε cb *lālínj-* adj. distant

lállóg^o pl *lállá* cb *lāl-* adj. distant

lām^{mε/} pl *lāmá* cb *lām-* n. gum (of tooth); *lām-fôog*^o pl *lām-fôod*^ε adj. toothless

làmpō-dī'əs^a n. tax collector 11 ← French *l'impôt*

lān^{nε} pl *lānā* cb *làn-* n. testicle

làngávŋj^o pl *làngáam*^{mε} *làngāamá* cb *làngāvŋj-* n. crab (cf *màngávŋj*^o id)

lànnìg^a pl *lànnìs*^ε cb *lànnìg-* 5.2 n. squirrel

lā'ŋ^{εl} dv. set alight

lāŋím^m dv. wander around searching

lāuk^o pl *lā'ad*^ε cb *là'-* n. item of goods pl goods

là'vŋj^o pl *là'amà* n. fishing net

lèb^ε ger *lēbīg*^a dv. return (intrans)

lèbìg^ε dv. turn over; return

lèbìs^ε dv. answer; send back; divorce (wife)

lèε but, VP particle 16.7

lèm again, preverb 16.8

lèm^m ipfv *lèmmìd*^a dv. sip, taste

lēr^ε dv. get ugly

lì it, its (right-bound); *li* it (enclitic) 12.4.1

lì ipfv *lìt*^a imp *lìm*^a ger *līg*^a dv. fall

- lī* *dv.* block up
līa where is ...? 18.4
līdìg^ε *dv.* turn a shirt WK
līdìg^ε *dv.* astonish, be amazed
līəb^ε *dv.* become
lī'əl^ε *dv.* approach, come near
lī'əm^{mε} *pl* *lī'əmá* *n.* fruit of yellow plum tree
līəŋ^a *pl* *līəmís^ε* *cb* *līəŋ-* *n.* axe
lī'əŋ^a *pl* *lī'əmís^ε* *n.* yellow plum tree, *Ximenia americana*
līg^ε *dv.* patch
līgìl^ε *dv.* cover
līgìn^ε *dv.* cover oneself
lībīr^ε *pl* *lībā* *cb* *līb-* *n.* twin
līk^a *pl* *līgīs^ε* *n.* darkness
līlāalīŋ^a *pl* *līlāalís^ε* *līlāalímìs^ε* *cb* *līlāalīŋ-* *n.* swallow
līn it (subject of *n*-clause); *līn^ε* it (contrastive) 12.4.1
līn^ε that demonstrative 12.4.2
līná that demonstrative 12.4.2
lī *dv.* tie
līb^ε or *lībīg^{ε/l}* *dv.* throw stones at
lībīdīg^a *pl* *lībīdís^ε* *n.* water drawing vessel
līdīg^{al} *pl* *līdīs^{ε/l}* *cb* *līd-* *n.* corner; *līdīgín kúg-súŋ^o* cornerstone NT
līdīg^{ε/l} *dv.* untie
līk^o *pl* *lī'ad^ε* *cb* *lū'à-* *n.* quiver (for arrows)
līmbò'og^o *pl* *līmbò'od^ε* *cb* *līmbò'-* *n.* garden ← Hausa *làmbuu*
līŋ^a *pl* *līmīs^ε* *cb* *līŋ-* *n.* a kind of frog
lī'ŋ^{ε/l} *dv.* go across river, road etc
līr^ε *pl* *lōyà lōom^{ma}* *cb* *līr-* *n.* car, lorry ← English
līs^ε *dv.* dip, immerse in liquid
lū *ipfv* *lūt^a* *imp* *lūm^a* *dv.* fall
lūb^ε *ger* *lūbīr^{ε/l}* *dv.* buck, kick, struggle, throw off rider
lūg^ε *dv.* swim
lūgūr^ε *n.* organ, member

M

- m̄* I, my (*right-bound*); *m^a* me (*enclitic*) 12.4.1
mà *cb* *mà-* *n.* mother; *pl* *mà nám^a* (*tone sic*) mother's sisters/co-wives; *mà-bīg^a* *n.* sibling with same mother; *mà-bīl^a* *n.* mother's younger sister or junior co-wife; *mà-kpēēñm^m* *n.* mother's elder sister or senior co-wife; *mà-pīt^{al}* *n.* mother's younger sister
mà' *dv.* lie, deceive

mà'aa SF *mà'anè* LF only; *emphatic* 24.7

màal^ε *dv.* prepare, sacrifice; *agt* *màal-māan*^{na} *n.* sacrificer; priest NT; traditionally just a worker who conducts the actual slaying for the *tèŋ-dāan*^a earth-priest

mā'al^{ε/} *dv.* make cool, wet

māan^{ne} *pl* *māanā* *cb* *māan-* *n.* sacrifice 8.1.2

má'an^{ne} *pl* *mā'aná* *cb* *mā'an-* *n.* okra

mā'as^{a/} *sv.* be cool, wet

mā'asíg^a *mā'asír*^ε *pl* *mā'asá* *cb* *mā'as-* *adj.* cool, wet

mā'asígā' *adv.* coolly

mā'asím^m *n.* coolness, wetness

mādīg^{ε/} *dv.* overflow, abound

mā'e' *dv.* cool down

màk^ε *dv.* crumple up

māk^{ε/} *dv.* measure, judge

màlīāk^{a/} *pl* *màlīā'as*^{ε/} *màlīāk-nám*^a *cb* *màlīā'*- *n.* angel ← Arabic *malʔak*;
written *malek* in NT versions before 2016

màlìʔ *pl* *màlì* *n.* gun, rifle (ultimately ← Arabic)

màlìgim again; *preverb* 16.8

mālīs^{a/} *sv.* be sweet, pleasant

mālīsíg^a *mālīsír*^ε *pl* *mālīsá* *cb* *mālīs-* *adj.* sweet, pleasant

mālīsím^m *n.* sweetness

mālīsíŋ^a *pl* *mālīsís*^ε *cb* *mālīsíŋ-* *adj.* sweet, pleasant

mālōŋ^ɔ *pl* *mālīmā* *cb* *mālòŋ-* *n.* sacrifice

mām I, me 12.4.1

mán I (as subject of *ŋ*-clause); *mān* SF *mánè* LF I, me (contrastive) 12.4.1

màngávŋ^ɔ *pl* *màngáam*^{mε} *màngāamá* *cb* *màngāvŋ-* *n.* crab (cf *làngávŋ*^ɔ *id*)

màʔk^ɔ *pl* *mà'ad*^ε *adj.* crumpled up

mè *dv.* build

mè mèn^ε too, also; *emphatic* 24.7; *mè-kàmà* -soever 12.4.3

mēd^ε *dv.* mash up

mèεŋ^a *pl* *mèεmìs*^ε *cb* *mèεŋ-* *n.* turtle

mèlìgim^m *n.* dew

mēŋ^{a/} self 12.4.6

mēŋír^ε *adj.* genuine

mēt^{ε/} *cb* *mēt-* *n.* *pl* as *sg* *pus*

mī' *ger* *mī'ilím*^m *sv.* know; *agt* *gbàn-mī'id*^{a/} *n.* scribe ("book-knower") NT

mìe *dv.* squeeze(?) 27.1; *uncertain meaning and tones*

mííʔ *pl* *mīíní* *n.* okra seed

mì'ig^ε *dv.* become sour

mì'is^a *sv.* be sour

mì'isùg^ɔ *pl* *mì'isà* *cb* *mì'is-* *adj.* sour

mīlīg^{ε/} *dv.* get dirty
mīmīlím^m *mīmīlíg*^o *n.* sweetness
mīt see that it doesn't happen that... 16.5; *always mid in KB*
mō *dv.* strive, struggle
mōd^ε *dv.* swell
mōdīg^{ε/} *dv.* be patient, endure
mòlì^o *pl* *mòlì* *cb* *mòl-* *n.* gazelle
mōn^ε *dv.* grind millet to make *sā'ab*^o porridge
mōŋ^{ε/} *dv.* refuse to lend
mōɔg^o *pl* *mōɔd*^ε *cb* *mò-* *n.* grass, "bush"; *mò-pīl*^{lε} *n.* grass thatch
Mòɔg^o *n.* Mossi realm; *Mòɔg Nâ'ab*^a *n.* the Moro Naba, King of the Mossi
mōɔl^{ε/} *dv.* proclaim; *agt* *mōɔl-môɔn*^{na} *n.* proclaimer
Mòɔl^ε *n.* Mooré language
Mōr^{ε/} *pl* *Móɔm*^{ma} *cb* *Mōr-* *n.* Muslim
mōr^{a/} *ger* *mōrím*^m *sv.* have, possess; *mōr nā* bring 16.11
Mùà *pl* *Mòɔs*^ε *cb* *Mò-* *n.* Mossi person
mɥ'à^a *dv.* suck (of a baby)
mɥàk^a *pl* *mò'as*^ε *cb* *mɥ'à-* *n.* maggot
mò'ar^ε *pl* *mɥ'àà* *mò'adà* *cb* *mɥ'à-* *n.* dam; reservoir
mò'as^ε *dv.* give (to baby) to suck
mù'e *dv.* redden; catch fire/ignite; become intense, severe
mùj *cb* *mùj-* *n.* *pl as sg* rice
mùl^ε *dv.* itch
mùm^m *dv.* bury

N

̀n *clause nominaliser particle* 21
n *clause catenator particle* 19
̀n- *personifier particle (allomorph used before an adjective)* 12.6
n^ε *discontinuous-past marker* 16.3.2
n^ε *nī* *locative particle* 13.3
nà *positive irrealis mood marker* 16.4
nā *hither; VP-final particle* 16.11
nā *dv.* join
náa *reply to greetings invoking blessings* 25
nà'ab^a *pl* *nà'-nàm*^a *cb* *nà'-* *n.* chief, king; *nà'-bīg*^a *n.* prince/princess; *nà'-yīr*^{ε/} *n.* palace; *nà'-yī-kpém*^{ma} *n.* *pl* king/chief's retainers
náf^o *pl* *nīgí* *cb* *nā'-* *n.* cow; *nā'-lór*^ε *n.* place in compound for tying up cows;
nā'-dāv^o *pl* *nā'-dâad*^ε *cb* *nā'-dá-* *n.* ox; *nā'-dá-kūədír*^ε *n.* ox for ploughing
nàam^m *dv.* happen
nā'am^m *cb* *nà'am-* *n.* chieftaincy, kingdom

- nāan* next, afterwards = *ñyāan*
nāan or *nāanī* then, in that case, being thus/there 20.1
nà'anā' *adv.* easily
nà'as^ε *dv.* honour; *ger* *nà'asì* *n.* honour
Nàbìd^a *pl* *Nàbìdìb*^a *cb* *Nàbìd-* *n.* Nabdema person
Nàbìdùg^o *n.* Nabdema country
Nàbìr^ε *n.* Nabit language
Nà'dàm^{ma} *n.* clan name
Nà'dàuy^o *n.* place of clan Nadamba
nà'-dàwān^{ne/} *n.* pigeon KED (= *dàwān*^{ne/})
nāe' *dv.* finish
nàm still, yet; *auxiliary tense particle* 16.3.1
nàm^a *pluraliser* 5.4
nāmīs^{ε/} *dv.* persecute, suffer
nān^ε *dv.* love, respect, appreciate
nà'-nēsīnnēog^{o/} *n.* centipede WK
nānná *adv.* now
nānná-nā' *adv.* now
nānzū'us^{ε/} *n.* pepper tones uncertain
nāη^a *pl* *nāmīs*^ε *cb* *nàη-* *n.* scorpion
nār^{al/} *ger* *nārīm*^m *sv.* be obliged to; impersonal: to be necessary; *with following purpose clause* 22.1; *negated*: be obliged not to
nàrvòη^o *pl* *nàrvòmà* *cb* *nàrvòη-* *adj.* necessary
Nàsāal^ε *n.* English/French language
Nàsāara *pl* *Nàsàa-nàm*^a *Nàsàar-nàm*^a *cb* *Nàsàa-* *Nàsàar-* *n.* European person
 ← Arabic *Nas'a:ra*: "Christians"; *Nàsàa-bīg*^a *n.* European child
nàyīg^a *pl* *nàyīg-nàm*^a *nàyīs*^ε *n.* thief
nàyīgìm^m *n.* thievery
nà'-zòm^{mε} *n.* locust
nē *preposition*: with 15; *linking NPs and AdvPs*: and 12.1
nē *uncommon variant of yē* that 22.2 (cf Mampruli *ni id*)
nē' *focus particle* 24.1.2; *aspectual marker* 16.2.1
nē' *meaningless particle after objects of wūv and wēn*^{na/} 15
nē' *this (pronoun)* 12.4.2
nèel^ε *dv.* reveal
nèem^m *adv.* for free
nēem^{m/} *dv.* grind with a millstone
nēer^{ε/} *n.* millstone
nèes^ε *dv.* reveal
nèesìm^m *n.* light
nēm-nêer^ε *pl* *nēm-néyà* *n.* someone who grinds

nēn^{na/} *ger nēnním*^m sv. envy; *nīn-nén*^{na} *agt* envious person

nē'ηá this (pronoun) 12.4.2

nèog^o *nèer*^e pl *nèed*^e *nèyà* cb *nè-* adj. empty

nēsīnnēog^{o/} pl *nēsīnnēed*^{e/} cb *nēsīnné-* n. envious person WK; *others*: centipede

ñfá! Well done! 18.4

nī' locative particle 13.3 see *n*^e

nì dv. rain

nīd^{a/} pl *nīdīb*^{a/} cb *nīn-* n. person; *nīn-sâal*^a pl *nīn-sáalìb*^a cb *nīn-sâal-* n. human being;

nīnpōnān^{na/} pl *nīnpōnānníb*^a cb *nīnpōnán-* n. disrespectful person; *nīn-*

sábilìs^e n. Africans

nìe dv. appear, reveal

nīf^{o/} pl *nīnì* cb *nīn-* *nīf-* n. eye; *nīf-gbáuy*^o n. eyelid; *nīf-sób*^a n. miser; *nīf-ñyáyuk*^o adj.

one-eyed; *nīn-dáa* pl *nīn-dâas*^e cb *nīn-dá-* n. face; *nīn-gótìη*^a n. mirror pl *nīn-*

gótìs^e n. spectacles, glasses; *nīn-kúgvdìg*^a pl *nīn-kúgvdìs*^e n. eyebrow; *nīn-*

tâ'am^m n. tear(s); *nīn-múa* n. concentration ("eye-redness"); *m̄ nīnì mù'e nē* ...

I'm concentrating on ... (KB "zealous for ...")

nīη^a pl *nīmís*^e *nīis*^e cb *nīiη-* n. bird

nīm^{ne/} *nī'm*^{ne/} pl *nīmá* cb *nīm-* n. meat

nīn-báalìg^a n. pity; *nīn-bâal-zōr*^e n. pity; *Ò zòtō nīn-báalìg*. He has pity on him.

nīη^a pl *nīis*^e cb *nīη-* *nīn-* n. body (uncommon); *nīn-tōllím*^m n. fever; *nīn-tāa* pl *nīn-*

tāas^e cb *nīn-tà-* n. co-wife (Ghanaian English: "rival"); husband's brother's wife;

nīn-gbīη^{o/} pl *nīn-gbīná* cb *nīn-gbīη-* n. body (pl often as sg); *nīn-gòr*^e n. neck

nīn-pôvd^e n. pl as sg pus

nīntāη^{a/} pl *nīntāañs*^{e/} cb *nīntáy-* n. heat of the day, early afternoon

nīη^e dv. do

n lā that is ... 18.4

ñnāas q. four, in counting

ññì q. eight, in counting

ññū q. five, in counting

n ñwà this is ...; *n ñwà nā* this here is ... 18.4

nō dv. tread

nōb^e dv. get fat

nōbīg^{e/} dv. grow (e.g. child, plant)

nóbìr^e pl *nōbá* cb *nōb-* n. leg, foot; *nōb-bíl*^a n. toe; *nōb-yíuy*^o adj. one-legged;

nōb-ìñ'a n. toenail; *nōb-púmpàuy*^o n. foot

nōk^{e/} dv. pick up, take up

nòη^e *agt* *nòηìd*^a (irregularly Pattern L) sv. love (family, spiritual); irregularly has

the *ma*-imperative form *nòηìm*^a 7.2

nōη^{o/} cb *nōη-* n. poverty; *nōη-dâan*^a n. poor person

nòηìlím^m n. love

nōw exactly, just; *emphatic* 24.7

nɔɔr^{el} pl *nɔ́yá* cb *nɔ́-* n. mouth; command, message, opinion; *nɔ́-dí'əs*^a n. "linguist", a councillor who speaks on a chief's behalf on all official occasions (not only in the region of the old Mossi-Dagomba states 1.1: "linguist" in Ghana typically refers to an Akan chief's herald and spokesman, the *okyeame*); *Wínà'am nɔ́-dí'əs*^a ("God's linguist") prophet NT/KB; *nɔ́-lɔɔr*^e n. fasting ("mouth-tying", as throughout West Africa); *nɔ́-náar*^e n. covenant; *nɔ́-pɔɔr*^e n. oath; *nɔ́-gbáɔŋ*^o pl *nɔ́-gbánà* n. lip

nɔɔr^{el} *nɔɔ́rím*^m times 12.5.1

ɲpòɛ q. seven, in counting

ɲtáñ' q. three, in counting

nū dv. drink

nūa' pl *nɔ́ɔs*^{el} cb *nɔ́-* n. hen; *nɔ́-dávu*^o n. cock; *nɔ́-ñyá'aŋ*^a n. (specifically female) hen; *Nɔ́-ñyá'aŋ-né-ò-Bīis* the Pleiades

nūlīg^{el} dv. make drink

nūlīs^{el} dv. make drink

nū'ug^o pl *nū'us*^e cb *nū'-* n. hand, arm; *nū'-bíl*^a pl *nū'-bíbìs*^e n. finger; *nū'-dávu*^o n. thumb; *nū'-yíɔŋ*^o adj. one-armed; *nū'-íñ'a* pl *nū'-éñ'es*^e cb *nū'-éñ'*- n. fingernail; *nū'-wéñ'ed*^a n. mediator

ñwà this 12.8.5

ñwā' dv. smash, break up

ñwāaŋ^a pl *ñwāamīs*^e cb *ñwāaŋ-* n. monkey

ñwādīg^{al} pl *ñwādīs*^{el} cb *ñwād-* n. moon, month; *ñwād-bíl*^a pl *ñwād-bíbìs*^e n. star; *Ñwād-dár*^e n. Venus

ñwà'e dv. cut wood

ñwā'e' dv. strike, break

ñwāɛ q. nine, in counting

ñwām^{me} *ñwān*^{ne} pl *ñwāmā* *ñwānā* cb *ñwām-* *ñwān-* n. calabash

Ñwāmpūrīg^{al} pl *Ñwāmpūrīs*^{el} cb *Ñwāmpúr-* n. Mamprussi person

Ñwāmpūrīl^{el} n. Mampruli language

Ñwāmpūrōg^o n. Mamprussi country

ñwè' dv. beat; *ñwè'* X *nū'ug* make an agreement with X; *ñwè'* *ñyɔ'ɔg* boast

ñwīīg^{al} pl *ñwīīs*^{el} cb *ñwī-* n. rope; *ñwī-ték*^a pl *ñwī-tékìdìb*^a cb *ñwī-ték-* n. rope-puller; *ñwī-tékìr*^e pl *ñwī-tékà* n. rope for pulling

ñwīīg^{el} dv. make a rope

ñyā'al^{el} dv. leave behind

ñyāan next, afterwards; *post-subject particle* 17.2.3

ñyá'aŋ^a pl *ñyá'as*^e *ñyā'amís*^e cb *ñyā'aŋ-* adj. female (animal)

ñyá'aŋ^a behind, *postposition* 13.5; East 26.3; *ñyà'an-dòl*^{la} *ñyà'an-dòl*^{le} pl *ñyà'an-dòllà* *ñyà'an-dòllìb*^a cb *ñyà'an-dòl-* n. disciple NT; *tones unexpected*, *Pattern L*

ñyā'ar^e pl *ñyā'a* cb *ñyā'-* n. root

ñyāe^{ne/} adv. in the light, brightly, clearly

ñyālúŋ^o pl ñyālmá cb ñyālōŋ- adj. wonderful
 ñyàn^{ne} n. shame; Ò dì ñyán. He's ashamed.
 ñyāŋ^{el} dv. overcome 19.1
 ñyàuk^o pl ñyà'ad^e adj. only (eye) 12.8.1.1
 ñyē ipfv ñyēt^{al} imp ñyèm^a dv. see, find; ñyē láafiyà get well
 ñyēε, ñyēε tí habitually, auxiliary tense marker 16.3.1
 ñyē'er^{el} pl ñyēdá cb ñyē'- n. next-younger sibling
 ñyèεs^a sv. be self-confident
 ñyèεsìm^m n. self-confidence
 ñyèεsíŋ^a pl ñyèεsíε cb ñyèεsíŋ- adj. self-confident
 ñyèεsíŋā' adv. self-confidently
 ñyí' q. two, in counting
 ñyīn^{ne}/ pl ñyīná cb ñyīn- n. tooth
 ñyīrír^o pl ñyīrí n. a kind of edible seed, egusi: *Colocynthis citrullus*
 ñyōɔd^e n. intestines
 ñyō'og^o/ n. chest
 ñyōɔg^o n. sympathy: Ò zòtō ñyōɔg. She sympathises with him.
 ñyōɔr^e pl ñyōyā cb ñyò- n. nose; breath; ñyò-vōr^{el} pl ñyò-vōyá cb ñyò-vōr- n. life;
 ñyò-vōr-pāal^{le} n. new life NT
 ñyō'os^{el} n. smoke
 ñyūōb q. six, in counting
 ñyūur^{el} pl ñyūyá cb ñyū- n. yam

O

ò [ɔ] he, she, his, her (right-bound); ° LF [ɔ] him, her (enclitic) 12.4.1
 ón he, she (subject of ñ-clause); òn^e he, she (contrastive) 12.4.1
 òn^e this, that (animate sg demonstrative) 12.4.2
 òñb^e ger òñbīr^e dv. chew
 òŋā' this, that (animate sg demonstrative) 12.4.2
 òɔs^{el} dv. warm oneself; Ò òòsìd nē búgúm lā. She's warming herself at the fire.

P

pà' earlier today, tense particle 16.3.1
 pà'al^e dv. teach, inform; agt pā'an^{na} pl pā'annīb^a cb pà'an- n. teacher
 pà'al^e dv. put on top of something
 pāalíg^a pāal^{le} pl pāalís^e pāalá cb pāal- adj. new
 pāalím^m adv. recently
 pāalú adv. openly
 pàañlúŋ^o pl pàañlímìs^e n. spider's web
 pàam^m dv. receive a gift
 pàas^e dv. add up to, amount to

- pāe'* *dv.* reach
pàk^ε *dv.* surprise
pàk^ε *dv.* take off from the top
pāmm SF *pāmné* LF *q.* much, a lot
pàñ'alim^m *dv.* dedicate
pàñsìg^ε *dv.* lack
pàη^a pl *pàaňs^ε* cb *pàη-* *n.* power
pà' tì perhaps; *post-subject particle* 17.2.3
pèbìs^ε *dv.* blow (of wind)
pèbìsìm^m *pèbìsùg^o* *n.* wind
pè'el^ε *dv.* fill; *resultative adj* *pè'elúg^o* full
pεelvg^o in *zū-péelùg^o* bald; cf *pie* "go bald" (Leviticus 13:40), Mooré *pěoogè*
pè'es^ε *dv.* add up to, amount to
pèlìg^ε *dv.* whiten, go white
pèlìs^ε *dv.* sharpen
pèn^{nε} *n.* vagina
pē'η^{ε/} *dv.* borrow; knock over WK
pèog^o pl *pèed^ε* cb *pè-* *n.* basket
pē'og^{o/} pl *pē'es^{ε/}* cb *pē'-* *n.* sheep; *pē'-sá'a* *n.* ewe lamb
pēsīg^{ε/} *dv.* sacrifice
pīā *dv.* dig up
pīāň^a *dv.* speak, praise; *ger* *pīàũňk^o* *n.* word pl *pīàň'ad^ε* language cb *pīàň'-*;
pīàň'-zònà *n.* foreign language
pìbìg^ε *dv.* uncover
pìbìl^ε *dv.* cover up
pībīn^{nε} pl *pībīnā* cb *pībìn-* *n.* covering 8.1.2
pìd^ε *dv.* put on (hat, shoes, rings); *clothing item as object; with indirect object* put
(hat, shoes, rings) on someone else
pīd^ε *dv.* get bloated
pìdìg^ε *dv.* take off (hat, shoes, rings)
pīe' *dv.* wash (part of one's own body)
pìəb^ε *dv.* blow (e.g. flute)
pìəlìg^a *pìəl^{lε}* pl *pìəlà* *pìəlìs^ε* cb *pìəl-* *adj.* white
pìəlìm^m *n.* whiteness
pìəs^ε *dv.* fool someone
pīəs^{ε/} *dv.* wash
pīīgā *q.* ten
pīim^{m/} pl *pīimá* cb *pīm-* *n.* arrow
pīũň^o pl *pīuní* cb *pīun-* *n.* genet
pīinī cb *pīin-* pl as sg (?) *n.* gift
pìl^ε *dv.* cover

pìlìg^ε *dv.* uncover

pīñ'il^{ε/} *dv.* begin

pīpīrīg^{al/} *pl* *pīpīrīs*^{ε/} *cb* *pīpír-* *n.* desert

pīsí *q.* twenty

pītú *pl* *pītíb*^a *cb* *pīt-* *n.* younger sibling of the same sex

pō *dv.* swear

pòñd^ε *dv.* crouch down

pōñ'ól^{ε/} *dv.* cause to rot

pòñ'ólìm^m *dv.* cripple, get crippled

pòñ'or^ε *pl* *pòñdà* *cb* *pòñ'-* *n.* cripple

pòñr^a *ger* *pòñrōb*^o *sv.* be near

pòcd^a *sv.* be few, small

pòcdìg^a *pòcdìr*^ε *pl* *pòcdà* *cb* *pòcd-* *adj.* few, small

pòcdìm^m *n.* fewness

pōcg^{o/} *pl* *pōcd*^{ε/} *pōt*^{ε/} *cb* *pō-* *n.* field, farm

pò'og^ε *dv.* diminish, belittle

pōor^{ε/} *n.* "slogan" of a clan, part of its traditional genealogy WK; ← *pō* swear (cf

Farefare *pote, pōre* "nom de famille, nom par lequel on jure", also "oath")

pō *not:* negates indicative mood 16.5

pō *dv.* divide

pū'ā^a *pl* *pū'ab*^a *cb* *pū'ā-* *n.* woman, wife; *Ò dī pū'ā.* He's married a wife; *pū'ā-dīr*^ε *n.*

marriage; *pū'ā-ēlīg*^a *n.* fiancée; *pū'ā-gīnnīg*^a, *pū'ā-gōōñdīr*^ε *n.* prostitute;

pū'ā-ñyá'an^a *pl* *pū'ā-ñyá'as*^ε *n.* old woman; *pū'ā-pāal*^{al/} *n.* bride; *pū'ā-sādīr*^{ε/} *n.*

young woman; *pū'ā-sāñ'am*^{na} *n.* adulterer; *pū'ā-yùà* *n.* daughter

pūāk^a *pl* *pū'as*^ε *adj.* female (human only)

pò'alìm^m *dv.* cook

pò'alìm^m *dv.* harm, damage; *resultative adj* *pò'alúŋ*^o damaged

pò'alìm^m *n.* femininity

pò'alím^m *pl* *pò'alímìs*^ε *cb* *pò'alím-* *n.* female sex organs

pòd^ε *dv.* name

pōdīg^{ε/} *dv.* divide, share out

pògvdìb^a *pl* *pògvd-nàm*^a *cb* *pògvd-* *n.* father's sister

pò-kòōñr^ε *pl* *pò-kòñyà* *cb* *pò-kòñ-* *n.* widow

pō-kpāad^{al/} *pl* *pō-kpāadíb*^a *cb* *irreg* *pō-kpá-* *n.* farmer

pùlmà *n.* a species of grass, *Imperata cylindrica*

pòmpōcg^o *n.* housefly

pòn previously, already; *preverb* 16.8

pūñ'e^l *dv.* rot

pūsīg^{al/} *pl* *pūsīs*^{ε/} *cb* *pūs-* *n.* tamarind

pūsīr^{ε/} *pl* *pūsá* *n.* tamarind fruit

pō-súk^a *pl* *pō-súgùs*^ε *n.* half 12.5.1

põt^{ε/} n. pl as sg contents of stomach WK

pūum^{m/} cb *pūum-* n. flowers

pōvg^a cb *pò-* n. inside, belly; *Pu'ā lā mór pōvg* The woman is pregnant; *pōvgō=n^{ε/}*
inside 13.5; *pò-pìəlim^m* n. holiness; *pò-tèñ'er^ε* pl *pò-tèñdà* cb *pò-tèñ'-* mind

pōvr^{ε/} n. stomach

pò'us^ε dv. greet, worship, thank; *ger pò'usim^m* n. worship; *ger pò'usòg^o* n. thanks;
pò'usòg dōog^o NT temple

S

sà yesterday, tense particle 16.3.1

sà hence, ago, VP-final particle 16.11

sā' dv. be in distress

sàa tomorrow, tense particle 16.3.1

sā pl *sāas^ε* cb *sà-* n. rain; sky; as subject of *īāñk^{ε/}* "leap": lightning; *sāa díndēog^{o/}*
rainbow ("rain chameleon"); *sāa zúg^o* n. sky 13.5

sā'ab^o cb *sà'-* n. millet porridge, "TZ", the staple food of the Kusaasi

sāafi (?tones) n. lock, key ← Twi *safē*

sàal^a pl *sàalib^a* cb *sàal-* n. human (perhaps ← "hairless" cf *būn-kóñbòg^o*); *sàal-bīg^a*
pl *sàal-bīis^ε* n. human being

sàalīgā' adv. smoothly

sàam^{ma} pl *sàam-nàm^a* cb *sàam-* n. father; *sàam-kpēñm^m* n. father's elder brother;
sàam-pīt^{a/} pl *sàam-pītí^a* cb *sàam-pīt-* n. father's younger brother

sāam^{m/} dv. mash, crumble

sā'an^{ε/} in the presence of, in the opinion of; postposition 13.5

sāan^{a/} pl *sāam^{ma}* cb *sāan-* n. guest, stranger

sāannim^m n. strangerhood

sàbēog^o pl *sàbēed^ε* cb *sàbè-* n. wind, storm

sābilíg^a *sābil^{le}* pl *sābilís^ε* *sābilá* cb *sābīl-* adj. black

sàbùa pl *sàbùes^ε* cb *sàbùà-* n. lover, girlfriend

Sà'dàbòog^o n. place of the clan Sarabose

Sà'dàbùa pl *Sà'dàbùes^ε* *Sà'dàbùeb^a* n. clan name

sādīgim since, because 21.1

sāeñ or *sāeñ^{ya}* pl *sāañb^a* cb *sañ-* n. blacksmith

sākáròg^o pl *sākárìd^ε* cb *sākár-* n. fox

sàlibìr^ε n. bridle

sālimā cb *sàlim-* n. pl as sg gold; *sàlim-kùes^a* n. gold merchant

sām^{nε/} pl *sāmá* cb *sām-* n. debt; *sām-kpâ'as^a* n. household servant

sāmán^{nε} pl *sāmánà* cb *sāmán-* n. open space in front of a *zàk^a* compound;

Sāmán-pìə^ε n. traditional New Year ceremony

sāñ'am^m dv. spoil, get spoiled, get broken; destroy

sāngúnnìr^ε pl *sāngúnnà* cb *sāngún-* n. millipede

sāṅá pl *sānsá* cb *sān-* n. time 26.7 5.3.2; *sān-kán*^ε adv. then; when?

sān-sî'ə=n lā adv. at one time, once ... 17.2.1

sàṅ-gbàṅ^o n. sky, heaven; cf *sāa*

sāpál^{le} n. Harmattan part of the dry season *úvn*^{ne}

sāpī ideo. straight (LF *sāpī* or *sāpīnÉ*)

sārúgá n. prison ← Hausa *sarkàa* "chain"

sàríyà or *sèríyà* n. law ← Arabic *fari:fa*; *sàríyà-kāt*^a n. judge NT

sāvúg^o pl *sāad*^{ε/} cb *sā-* n. broom, brush

sàvk^o pl *sà'ad*^ε n. mote of dust

sávṅ^o n. hospitality

sè ipfv *sèéd*^a dv. transplant

sēōṅg^o n. rainy season

sì dv. skin, flay

sī'a some, any (sg) 12.4.3

sīa pl *sīəs*^ε cb *sīà-* n. waist; *sīà-lōwdíṅ*^a n. belt ("waist-tying-thing"); *sīà-nīf*^o n. kidney

sīà'al^{ε/} dv. get to be enough

sīà'ar^ε pl *sīà'a* cb *sīà'-* n. forest (WK), wilderness

sīàk^ε dv. agree (Mooré *sàke*, Buli *siagi*)

sīāk^{ε/} dv. suffice (Mooré *sékè*, Buli *chagi*)

sībīg^{al} pl *sībí* cb *sīb-* n. a kind of termite

sìd truly, post-subject particle 17.2.3

sìdà pl *sìd-* n. pl as sg truth

sìd^a pl *sìdīb*^a cb *sìd-* n. husband; *sìd-bīl*^a n. husband's younger brother;

sìd-kpēēṅm^m n. husband's elder brother; *sìd-puāk*^a n. husband's sister

sīe^l dv. descend, be humbled

sīēbā some(ones), any (ones) 12.4.3

sī'əl^a something, anything 12.4.3

sī'əm^m somehow, anyhow 12.4.3 13.6

sīg^ε dv. descend

sīgīr^{ε/} n. guardian spirit; often the *wīn*^{ne/} of an ancestor 26.2

sīgīs^{ε/} dv. lower

sīgīsír^ε pl *sīgīsá* n. stopping-place

sīug^a pl *sīus*^ε cb *sì-* n. shade, personal spirit (KED); used in NT for "spirit"; in

traditional belief *Lebenskraft* (Haaf) "vital energy", identified with a person's tutelary *kìkīrīs*^{ε/} (qv); *Sì-sòṅ*^o n. Holy Spirit NT; cf Buli *chík*

sīug^a pl *sīus*^ε n. African birch, *Anogeissus leiocarpa*; cf Buli *sīik*

sīilīm^m dv. cite proverbs

sīilíṅ^a *sīilóṅ*^o pl *sīilís*^ε *sīilímìs*^ε *sīilímà* cb *sīilíṅ*- n. proverb

sīiñd^{ε/} n. honey

sīiñf^o *sīiñg*^{al} pl *sīiñs*^{ε/} cb *sīñ-* n. bee

sī'is^{ε/} dv. touch

- sīlīns̄iug*^o pl *sīlīns̄iis*^ε n. ghost
sīlīns̄iuñg^o pl *sīlīns̄iñd*^ε n. spider
sìlòg^o pl *sìn*^{ne} *sìlìs*^ε cb *sìl-* n. hawk
sìm^m dv. sink in a liquid
Sìm̄iig^a pl *Sìm̄iis*^ε cb *Sìm̄i-* n. Fulbe person, Fulani
Sìm̄iil^ε n. Fulfulde language
Sìm̄iug^o n. place of the Fulbe
sīn^{na/} ger *sīnním*^m sv. be silent
sīns̄áañ n. a kind of tiny ant
sīŋ^a pl *sīñs̄*^ε cb *sìŋ-* n. a kind of very big pot
sī'ŋ^{ε/} dv. begin
sīs̄ibìg^a pl *sīs̄ibìs*^ε cb *sīs̄ib-* n. neem tree *Azadirachta indica*
sīs̄ibìr^ε pl *sīs̄ibà* n. fruit of neem tree
sìs̄ì'əm^m n. wind, storm
sìs̄òvḡ=n^{ε/} between, postposition 13.5 KB *svugvn*
sì'uŋ^o pl *sī'imís*^ε cb *sī'uŋ-* n. a kind of large dish
sō' some(one), any(one), animate sg 12.4.3
sōb^a dummy head pronoun, animate sg 12.4.7
sōb^ε dv. go/make dark; usually write; *sōbīr*^{ε/} n. piece of writing
sōbīg^{ε/} dv. blacken
sōḡñ or *sōḡñ*^{ya} pl *sōḡñb*^a cb *sòñ-* n. witch
sógjà^a n. soldier ← English
sōlōŋ^{o/} pl *sōlímá* n. story
sōñ dv. rub
sōñ'e^{ya/} sv. be better than; agt *sōñ'òd*^{a/} pl *sōñ'òb*^{a/} cb *sōñ'òd-*
sōnnīr^ε pl *sōnnā* cb *sòn-* n. courtyard dividing wall
sōñs^ε ger *sóñs̄ìg*^a dv. converse, talk with
sōḡñg^o n. witchcraft
sōḡñr^ε pl *sōñyā* cb *sòñ-* n. liver
sòs^ε ger *sōs̄ìg*^a dv. ask; agt *sòs*^a n. beggar
sò dv. take a bath
sų'ā^a dv. do secretly, hide
sųāk^{a/} n. hiding place
sūeñ[/] dv. anoint
sū'e^{ya/} sv. own; ger *sū'ulím*^m n. property, country, realm
sūgōr^{ε/} dv. show forbearance, be patient with; *sūgvró* n. forbearance
sùm^m n. goodness; well
sùm^{ma} sv. be good
sùmbōgvsím^m n. peace
sūmmīr^ε pl *sūmmā* cb *sùm-* n. groundnuts; *sùm-dōgvdá* n. cooked groundnuts

sùn^{ne} ger sùnⁿⁱ or sùn^{no} dv. bow one's head; *agt sùn^{na} n.* ("someone who goes about with bowed head") deep thinker, close observer WK

sũñ'e/ dv. become better than

sũñf/ sũñr^{e/} pl sũñyá cb sũñ- n. heart; *sũñ-kpì'oŋ^o n.* boldness 12.7.1;

sũñ-má'asim^m n. joy (*M sũñf má'e yā.* "My heart has cooled"= I'm joyful);

sũñ-málisim^m cb sũñ-mális- n. joy; *sũñ-péén^{ne} n.* anger (*M sũñf péliŋ nē.* "My heart is whitened"= I'm angry); *sũñ-sân'vŋ^o n.* sorrow (*M sũñf sãn'am nē.*

"My heart is spoilt" = I'm sad)

sùŋ^e dv. help

sùŋ^o sùm^{me} pl sùmà cb sùŋ- adj. good

sùŋā/ adv. well, much

sú'oŋ^a pl sũ'omís^e cb sũ'oŋ- n. rabbit

sũo^{e/} pl sũeyá cb sũā- n. road; permission in *sũo bé, mōr sũo* 22.1

sù'o^a n. yesterday

sù'o^e dv. trick

sù^a sv. have one's head bowed

sùsòm^{me} n. grasshopper

Sũtáanà n. Satan

sũvg^{e/} dv. wither (leaves) WK

sù'vg^a sù'vg^o pl sù'vs^e cb sù'- n. knife

T

tāa tāas^e fellow- as second part of compound 9.2.1.4

tāabā tāab each other 12.4.5

tā'adīr^e pl tā'adā cb tā'ad- n. sandal

tāal^{le} pl tāalà cb tāal- n. fault, sin

tā'am^{me} pl tā'amá n. shea tree fruit

tā'aŋ^a pl tā'amís^e cb tā'aŋ- n. shea butter tree *Butyrospermum parkii*

tā'as^{e/} dv. help someone to walk; in *greetings* 25

tàb^e dv. get stuck to

tàbì^{ya} sv. be stuck to

tàbìg^e dv. get unstuck from

tàbìl^e dv. stick to (*transitive*)

tàdìg^e n. become weak

tādīm^{m/} pl tàdìm-nàm^a cb tàdìm- n. weak person

tàdìmís^e n. weakness

Tàlìn^{ne} n. Talni language

Tàlìŋ^a pl Tàlìs^e cb Tàlìŋ- n. Tallensi person

tàm^m ipfv tàmmìd^a dv. forget

tàmpìiŋ^a n. rock

tàmpūa pl tàmpōs^e cb tàmpò- n. housefly 5.3.2

- tàmpōvr^ε cb tàmpò-* n. ashpit, rubbish tip
tān^{ne} pl tānā cb tàn- n. earth; *tàn-mēd^a* n. builder
tāñp^o n. war; *tāñp-sōb^a* n. warrior
tāñs^ε ger tāñsòg^o dv. shout; *Wìnnìg táñsìd nē.* The sun is shining.
tār^{al} ger tārím^m sv. have; more typical of Toende Kusaal; NT/KB always *mōr^{al}*
tàsìntàl^{lε} n. palm of hand
tàtál^{lε} n. palm of hand
tāuñ^l pl tāñp^{al} cb tāuñ- tāñp- n. sibling of opposite sex
tèb^ε ger tēbīg^a dv. carry in both hands
tēbīg^{εl} dv. get heavy
tēbīs^{al} sv. be heavy
tēbīsíg^a tēbīsír^ε pl tēbīsá cb tēbīs- adj. heavy
tēbīsím^m n. heaviness
téebòl^ε pl téebòl-nàm^a n. table ← English
tēeg^{εl} dv. drag, draw; *tēeg X túbòr* punish X
tè'eg^a pl tè'es^ε cb tè'- n. baobab *Adansonia digitata*
tēk^{εl} dv. pull
tēñb^ε ger tēñbùg^o dv. tremble, struggle
tēñ'es^ε dv. remind
tēñ'es^{εl} dv. think; *ger tēñ'esá* n. thought
tēñ^a ger tēñrīb^o sv. remember
tēñ^a pl tēñs^ε cb tēñ- n. land; *tēñ-bīg^a* n. native; *tēñ-dāan^a* n. traditional earth-
 priest; *tēñ-dū'adīg^a* n. native land; *tēñ-gbàuñ^o* n. earth, land; *tēñ-pōvg^o pl*
tēñ-pōvd^{εl} cb tēñ-pō- n. village, town; *tēñ-zùñ^o pl tēñ-zùvñs^ε* n. foreign country;
tēñ-sūk^a n. centre
tēñī=n^{εl} or tēñír^ε downward; as postposition under 13.5
tèog^o pl tèed^ε n. nest
tè'og^o pl tè'ed^ε n. baobab fruit
tì we, our (right-bound); *tì* us (enclitic) 12.4.1
tì preverb conveying completion or purpose 16.8
tjà'al^ε dv. come next
tjàk^ε dv. change
tì'əb^ε dv. prepare, get ready; heal in this sense perhaps influenced by
 Arabic *t'ibb* "medicinal art"; *tì'əb^a* n. healer
tìeñ dv. inform WK (KED remember)
tìeñ dv. stretch out
tìəñ^a pl tìəmìs^ε cb tìəñ- n. beard; *tìəñ-gōvr^ε* n. chin
tīg^ε dv. become sated, have too much/many; *ger tīgīr^{εl}* n. glut
tī'y^{al} ger tī'ib^o sv. be leaning (object)
tìg^a pl tìs^ε cb tì- n. tree; *tì-dāvug^o pl tì-dāad^ε cb tì-dà-* n. bow (for arrows)
tī'il^{εl} dv. lean something

- tùm^m* *cb* *tì-* *n.* medicine; *tì-kōvdím^m* *n.* poison (killing-medicine); *tì-sābílím^m* *n.* "black medicine" (a particular traditional remedy); *tì-vōnním^m* *n.* oral medication
- tì'in^ε* *dv.* begin to lean
- tīlās^ε* *n.* necessity ← Hausa *tiilàs* 22.1
- tìlìg^ε* *dv.* survive, be saved
- tīnám^a* *we, us* (*contrastive*); *tīnámì* *we* (*subject of ñ-clause*) 12.4.1
- tīntōñríg^a* *pl* *tīntōñrís^ε* *cb* *tīntōñr-* *n.* mole (animal)
- tìp^a* *pl* *tìp-nàm^a* *cb* *tìp-* *n.* healer (see *tī'əb^a* *id*)
- tīrāan^a* *pl* *tīrāan-nàm^a* *cb* *tīrāan-* *n.* neighbour, peer
- tīrāannìm^m* *n.* neighbourliness
- tīrīgà* *ideo.* for *gīṅ^a* short
- tìs^ε* *ipfv* *tìsìd^a* *tìt^a* *agt* *tìs^a* *dv.* give; also *tì* before bound pronouns: *tì=f* gave you
- tītā'al^{le}* *n.* proud person
- tītā'alīm^m* *n.* pride
- tītā'am^m* *n.* multitude
- tītā'vg^o* *tītā'ar^ε* *pl* *tītādā* *cb* *tītá'-* *adj.* big, great
- tò* OK 18.4 (= Hausa *tôo*)
- tòd^ε* *dv.* give to the poor, share
- tōg^{ya/}* *sv.* be bitter, difficult
- tóklàe* *n.* torch ← English "torchlight"
- tólib* *ideo.*
- tōlīs^{ε/}* *dv.* do next, advance, carry on
- tólìlì* *ideo.* for *wōk^{o/}* tall
- tòñ* *dv.* shoot
- tòñ'ws^ε* *dv.* hunt
- tōg^o* *pl* *tōd^ε* *cb* *tò-* *adj.* bitter, difficult
- tōm^{m/}* *dv.* depart, disappear
- tò'otō'* *adv.* straight away
- tụà* *dv.* grind in a mortar; *tụà-bīl^a* *n.* pestle
- tụ'à^a* *dv.* speak, plead in court
- tò'al^ε* *dv.* condemn in court
- tò'as^ε* *dv.* talk
- tùbùr^ε* *pl* *tùbà* *cb* *tùb-* *n.* ear; *tùb-kpìr^ε* *n.* half of jaw; *tùb-yīuṅ^{o/}* *adj.* one-eared
- tōl^{la/}* *sv.* be hot
- tùlìg^ε* *dv.* invert
- tōlīg^{ε/}* *dv.* heat up
- tòm^m* *dv.* work; *ger* *tōvm^{mε}* *n.* deed *pl* *tōvmā* *n.* deeds; work *cb* *tòvm-*; *tòvm-bē'ed^ε* *n.* bad deeds; *tòvm-bē'ed-dím^a* *n.* sinners NT; *agt* *tòm-tūm^{na}* *n.* worker
- tòm^m* *ger* *tītūmīs^ε* *dv.* send; compare Hausa *àikaa* "send", *aikàtaa* "work"
- tūñ'e* *sv.* be able 19.1

tūēdīr^ε pl *tūēdā* cb *tūēd-* n. mortar
tūēn^{ne} in front; as postposition 13.5; West (KB *yà tūēnà*) 26.3; *tūēn-gāt^a* n. leader
Tūēn^{ne} n. Toende, western part of Kusaasiland
Tūēnnīr^ε n. Toende dialect of Kusaal
tūsīr^{εl} n. thousand 12.5.1
tūtūl^{le} n. upside-down thing, cf *tūlīg^ε*
tōvlīgā^l adv. hotly
tōvlóg^o pl *tōvlá* cb *tōvl-* adj. hot
tō'vs^{εl} dv. meet

U

ùdòg^o pl *ùt^ε* cb *ùd-* n. (piece of) chaff
ūgōs^{εl} dv. bring up a child
ùk^ε dv. vomit
ūk^ε dv. bloat
ùm^m dv. close eyes
ūrīg^{εl} dv. scrape
úvn^{ne} n. dry season

V

vābī^{ya/} ger *vāp^{o/}* KT *vābīr^{εl}* WK sv. be lying prone
vābīl^{εl} dv. make lie prone
vàbìn^ε dv. lie prone
vàe dv. gather up
vāvñg^{o/} pl *vāañd^{εl}* cb *vāñ-* n. leaf
vē^l dv. lead
vē'εg^{εl} dv. drag
vèn^{na} or *vèñl^{la}* sv. be beautiful
vèñllìg^a pl *vèñllìs^ε* *vèñllà* cb *vèñl-* adj. beautiful
vèñllìg^a pl *vèñllís^ε* cb *vèñllìg-* adj. beautiful
vènnìg^a *vènnìr^ε* pl *vènnìs^ε* *vènnà* cb *vèn-* adj. beautiful
vènnìm^m n. beauty
vī^l dv. uproot
vīk^{εl} dv. uproot
vīug^{o/} pl *vīid^{εl}* cb *vī-* n. owl
vōb^{εl} dv. thrash (tones uncertain)
vū ger *vūug^{o/}* dv. make a noise; *vūud^{εl}* n. noise
vōg^{ya/} sv. be alive
vōl^ε dv. swallow
vòlìnvùuñl^{le} n. mason wasp
vōm^{m/} cb *vōm-* n. life; *vōm-paal^{le}* n. new life

vúəŋ^a pl *vūəmís*^ε n. red kapok *Bombax buonopozense*

vúə^ε pl *vūáa* cb *vūə*- n. fruit of red kapok

vūr^{ε/} pl *vōyá* cb *vūr*- adj. alive

vūrīg^{ε/} dv. shift along, move over (*tones uncertain*)

vū'vug^{ε/} dv. come, make alive

vū'us^{ε/} dv. breathe, rest

vū'usím^m n. resting

W

wā' dv. dance

wāad^{ε/} n. cold weather

wáaf^o pl *wīgí* cb *wā*'- n. snake

wāal^{ε/} dv. sow, scatter seed

wā'alím^m n. length

wā'am^{a/} sv. be long, tall

wàbìg^a *wàbìr*^ε pl *wàbìs*^ε *wàbà* cb *wàb*- n. lame person

wàbùlím^m dv. make, go lame

wābōg^{o/} pl *wābīd*^{ε/} cb *wāb*- n. elephant

wādīr^{ε/} pl *wādá* cb *wād*- n. law (← English "order" via Hausa) plural as sg: law

wād-tís^a n. lawgiver NT

wà'e^{ya} sv. be travelling

wālīg^a pl *wālīs*^ε *wālí* (*tone sic*) cb *wāl*- n. a kind of gazelle

wàṅì^m dv. waste away

wàsìnwàl^{lε} n. a parasitic gall on trees, called "mistletoe" in local English

wàṁṁ^o pl *wànà* cb *wàṁṁ*- adj. wasted, thin

wèéd^a see *wìd*^a

wēel^{ε/} dv. be left unsold (KED) but see *wēog*^{o/}

wēl^ε dv. bear fruit

wēl^{lε/} pl *wēlá* cb *wēl*- n. fruit

wēlá or *wālá* how? 13.6; *nìṅ wēlá n/kà* how can ...? 19.1

wēn^{na/} sv. resemble; in KB *wēn nē* appears as *nwεnε*; ger *wēnním*^m

wēnnīr^ε adj. resembling (*Pattern A, specifically confirmed with WK*)

wèog^o n. deep bush

wēog^{o/} pl *wēéd*^{ε/} n. cheap thing sold in abundance WK

wīāk^{ε/} dv. hatch (from an egg)

wìdìg^ε dv. scatter

wìəf^o pl *wìdì* cb *wìd*- n. horse; *wìd-lōr*^{ε/} n. place for tying up horses in a compound;

wìd-dāvug^o n. stallion; *wìd-ñyá'aṅ*^a n. mare; *wìd-zūr*^ε n. horsetail

wìd^a or *wèéd*^a pl *wìb*^a cb *wìd*- n. hunter

Wìid^a pl *Wìid-nàm*^a cb *Wìid*- n. member of the clan Wiid

Wìidvòg^o n. place of the clan Wiid

wīg^{a/} *n.* whistle

wim^m *n.* sickness, disease ("worse than *bāñ'as*^ε" WK)

wik^ε *ipfv* *wid*^a *dv.* fetch water 7.1

wil^{lε} *pl* *wilà* *cb* *wil-* *n.* branch

wīlsúŋ^o *pl* *wīlmís*^ε *cb* *wīlsúŋ-* *n.* a kind of snail 5.3.2

wim *ideo.* for *zìñ'a* red

wīn^{ne/} *pl* *wíná* *cb* *wīn-* *n.* God; god; spiritual double, *genius*; destiny; *wīn-tóŋ*^o
n. misfortune

Wínà'am^m *n.* God 11.1

wìnnìg^a *cb* *wìn-* *n.* sun; talent; *wìn-līr*^ε *n.* sunset; *wìn-kòŋñ*^ε *n.* sunset

wìug^o *wìr*^ε *pl* *wìyà* *wìd*^ε *cb* *wì-* *adj.* red

wōk^{o/} *wā'ar*^{ε/} *pl* *wá'a* *wā'ad*^{ε/} *cb* *wōk-* *wā'-* *adj.* long, tall

wòm^m *dv.* hear; understand (a language); smell

wōsā *q.* all

wōv *q.* all

wōv like, resembling 15

wō'vg^{ε/} *dv.* get wet

wō'vl^{ε/} *dv.* make wet

Y

yà you, your *pl* (*right-bound*); *ya* you *pl* (*enclitic*) 12.4.1

y^a you *pl*, *enclitic subject after imperative* 4.2 12.4.1 18.3

yā *independent-perfective particle* 16.6.2

yà' if, when 20

yáa *adv.* whither?

yáab^a *pl* *yāa-nám*^a *cb* *yāa-* *n.* grandparent, ancestor; *yāa-dáu* *n.* grandfather;
yāa-pū'á^a *n.* grandmother

yà'ab^ε *dv.* mould clay

yā'ad^ε *cb* *yà'-* *n.* clay

yà'al^ε *dv.* hang up; make perch (bird)

yà'an^ε *dv.* perch (of a bird)

Yàan^{ne} *n.* Yansi language (apparently Mooré now)

yáa ní *adv.* where?

yáaŋ^a *pl* *irr* *yáas*^ε (*consistently without nasalisation*) *cb* *yāaŋ-* *n.* grandchild,
descendant 26.1

Yàaŋ^a *pl* *Yàam*^{ma} *Yàamìs*^ε *Yàaŋs*^ε *cb* *Yàaŋ-* *n.* Yansi person

yāar^{ε/} *dv.* scatter

yàarìm^m *cb* *yàar-* *n.* salt

yà'as^a *yà'as*^ε again 19.1

yā'as^{ε/} *dv.* open repeatedly

- yàddā* or *yàdā* *n.* faith, trust 16.9.1 ← Hausa *yārda*; probably ← Arabic *yardʿa*;;
yàddā-níjìr^ε *n.* belief
yādīg^{εl} *dv.* scatter; *agt* *yāt*^{al} *irreg. agt:* participant in a housebuilding ritual
yā'e^l *dv.* widen, open (mouth)
yàk^ε *dv.* unhang, unhook
yàlìm^{ma} *sv.* be wide
yālīm^{m/} *pl* *yālīm-nám*^a *n.* worthless person
yālisúŋ^o *pl* *yālímís*^ε *cb* *yālisúŋ-* *n.* quail 5.3.2
yàlòŋ^o *pl* *yàlímà* *cb* *yàlòŋ-* *adj.* wide
yām^{me} *pl* *yàmà* *cb* *yàm-* *n.* hay WK
yām^{m/} *cb* *yām-* *n.* gall; gall bladder; common sense. WK *yā'am*^{m/}; probably originally two distinct words 2.2
yàmmìg^a *yàmmòg*^a *yàmmòg*^o *pl* *yàmmìs*^ε *cb* *yàm-* *n.* slave
yānám^a *you* *pl* (contrastive); *yānámì* *you* *pl* (subject of *ñ*-clause) 12.4.1
Yārīg^{al} *pl* *Yārīs*^{εl} *cb* *Yār-* *n.* Yarsi person; also called Kantonsi; said to have been originally of Manding/Dyula origin
Yāt^{εl} *n.* Yarsi language (no longer Dyula/Bambara, but a Western Oti-Volta language)
yàvŋ^o *pl* *yàad*^ε *n.* grave, tomb
yē that 22; be about to ... 16.3.3
yè *dv.* dress oneself; *resultative adj* *yèelóŋ*^o worn (e.g. of a shirt)
yèεg^ε *dv.* undress oneself
yèεl^ε *dv.* dress someone
yēεs^{εl} *dv.* betray a secret
yèl^ε *ipfv* *yèt*^a *ger* *yèlòg*^o *dv.* say, tell
yēl^{lel} *pl* *yēlá* (as postposition: about 13.5) *cb* *yēl-* *n.* matter, affair; *yēl-méŋìr*^ε *n.* truth; *yēl-náròŋ*^o *n.* necessity; *yēl-pákìr*^ε *n.* disaster; *yēl-sú'adìr*^ε *n.* confidential matter; *yēl-súm*^{me} *n.* blessing
yēŋím^m *dv.* oscillate (like waves)
yèog^o *pl* *yèed*^ε *n.* bird's crop; person displaced from family (KED)
yéon *q.* one, in counting
yī *ipfv* *yīt*^{al} *imp* *yìm*^a *dv.* go, come out
yìdìg^ε *dv.* go astray
yīdīg^{εl} *dv.* untie
yìə^ε *n.* jaw
yīgá *q.* firstly; former 12.1; *yīg-sób*^a *n.* first person 12.4.7
yīs^{εl} *ger* *yīsíb*^o *dv.* make go/come out, extract
yīmmír^ε *pl* *yīmmá* *cb* *yīm-* *adj.* solitary, lone 12.5.1
yīmmú *q.* *adv.* straight away, at once
yīnní *q.* one
yìŋ^a *adv.* outside

- yīr*^{ε/} pl *yā*[/] cb *yī-* n. house; *yī-dâan*^a n. householder; *yī-sób*^a pl *yī-sób-nàm*^a n. householder; *yī-dím*^a n. members of the household; *yī-póñrùg*^o pl *yī-póñrà* n. neighbouring house; *yī-sígidìr*^ε n. lodging-house; *yín*^{nε} at home pl *yáa=n*^ε
- yīs*^ε dv. make go/come out, extract
- yīṁṁ*^{o/} pl *yīná* adj. single- 12.8.1.1
- yò* dv. close; resultative adj *yòólúṅ*^o closed
- yō*ⁿvv. pay; ger *yōd*^{ε/} n. pay
- yōlīs*^{ε/} dv. untie
- yōlísím*^m n. freedom
- yōlōg*^{o/} pl *yōn*^{nε/} cb *yōl-* n. sack, moneybag; (like Hausa *jàkaa*) £100, ₦200 (cedis)
- yò'og*^ε dv. open
- yòor*^ε pl *yòyà* cb *yò-* n. soldier ant
- yùà* dv. bleed; also fornicate WK
- yō'adīr*^ε pl *yō'adā* n. rafter
- yùbìg*^a pl *yùbìs*^ε cb *yùb-* n. small bottle-like pot
- yūgvdīr*^ε pl *yūgvdā* cb *yùgùd-* n. hedgehog
- yōgúm*^{mε} *yōgúm*^{nε} pl *yōgumá* cb *yōgūm-* n. camel
- yùlìg*^ε dv. swing (transitive)
- yūñ'e*[/] dv. set alight
- yū'ør*^ε pl *yūādā* cb *yù'ør-* n. penis
- yùug*^ε dv. get to be a long time, delay; *Tì yūug nē tāabā*. It's long since we met.
- yùul*^ε dv. swing (intransitive)
- yō'um*^{m/} dv. sing; agt *yōum-yô'um*^{na} pl *yōum-yô'umnìb*^a n. singer
- yó'um*^{nε} pl *yō'umá* cb *yō'um-* or *yōum-* n. song
- yòum*^{mε} pl *yòmà* cb *yòum-* n. year; *yòum-pāalíg*^a n. new year
- yō'vn* then, next 17.2.3
- yó'vṅ*^o pl *yō'vímí*^ε cb *yō'vṅ-* n. night
- yō'vr*^{ε/} pl *yōdá* cb *yō'-* n. name
- yōvr*^ε pl *yōyā* cb *yò-* n. water pot

Z

- zā*[/] cb *zā-* n. millet
- zāalíg*^a *záal*^{lε} pl *zāalís*^ε *zāalá* cb *zāal-* adj. empty
- zāalím*^m adv. emptily
- zàam*^m cb *zà-* n. evening; *zà-sìsōbīr*^{ε/} n. evening
- zàñ'an*^{nε} pl *zàñ'anà* n. metal hammer, iron-tipped weapon, bludgeon
- zàañsìm*^m dv. dream
- zāañsím*^m cb *zāañs-* n. soup; soup in general, not "fish soup" despite Mampruli *zaasim* "fish"; cf Toende *zāasím* "meat soup" (Niggli)
- zàañsúṅ*^o pl *zàañsímà* cb *zàañsúṅ-* n. dream

- zàb*^ε *ger zàbìr*^ε *dv.* fight; hurt (of body part); *agt zàb-zàb*^a *n.* warrior;
agt gbān-záb^a *n.* leather-beater, leather-worker
zàbìl^ε *dv.* cause to fight
zàk^a *pl zà'as*^ε *cb zà'*- *n.* compound; *zà'-nōr*^{ε/} *n.* gate; *zà'-nō-gúr*^a *n.* gatekeeper
zàkìm^m *dv.* itch
zàlìŋ^a *pl zàlìmìs*^ε *cb zàlìŋ*- *n.* electric eel
zàm^m *ipfv zàmmìd*^a *dv.* cheat; *agt zàm-zām*^{na} *n.* cheat
zàmìs^ε *dv.* learn, teach
zāñ'a *q.* every
zāñ'as^ε *dv.* refuse
zāñbìl^ε *dv.* tattoo, mark skin
zāñbīn^{ne} *pl zāñbīnā* *cb zāñbīn*- *n.* tattoo; NT sign 8.1.2
Zàngbèèl^ε *n.* Hausa language
Zàngbèèog^o *pl Zàngbèèed*^ε *n.* Hausa person
zàngùøm^{me} *pl zàngùømà* *cb zàngùøm*- *n.* wall
zànkù'ar^ε *pl zànkù'aa* *zànkù'adà* *cb zànkù'à*- *n.* jackal
zāñl^{la/} *ger zāñlìm*^m *sv.* be holding, carrying in hands
zāñl^{lε} *n.* umbilicus
zàŋ^ε *dv.* pick up, take up
zēm^{ma/} *ger zēmmúg*^o *sv.* be equal
zēmīs^{ε/} *dv.* make equal
zēmmúg^o *pl zēmmá* *cb zēm*- *adj.* equal
zī *ger zīid*^{ε/} *dv.* carry on one's head; *agt zī-zīid*^a *n.* carrier on the head
zī' *ger zī'ilím*^m *sv.* not know 16.5; *agt zī'id*^{al/} *n.* ignorant person
zì'e^{ya} *ger zī'a* KED; DK KT *zī'əg*^a (*exceptional phonology* 11 8.1.1) *sv.* be standing
zì'əl^ε *dv.* make to stand; *zì'əl nōr*^{ε/} promise, command; *with n tìs* X: promise to X
zì'ən^ε *dv.* stand still; *Ò zì'ən nē.* She's pregnant.
zīim^{m/} *cb zī*- *n.* blood
zīŋ^a *pl zīmí* *cb zīm*- *n.* fish; *zīm-gbāñ'ad*^a *n.* fisherman
zìlìm^{me} *pl zìlìmà* *cb zìlìm*- *n.* tongue
zīlīnzīog^o *adj.* unknown
zīm *ideo. for sābílíg*^a black
zīnā today
zīñ'a *zēñ'ug*^o *pl zēñ'ed*^ε *zēñ'es*^ε *zēñdà* *cb zēñ'*- *adj.* red
zīñ'i^{ya} *sv.* be sitting; *ger zīñ'ig*^a *pl zīñ'is*^ε *cb zīñ'*- (*also place*)
zīñ'il^ε *dv.* make sit, seat
zīñ'in^ε *dv.* sit down
zīnzāuŋ^{o/} *pl zīnzānā* *cb zīnzāuŋ*- *n.* bat
zīrì *n.* lie, untruth
zò *ipfv zòt*^a *imp zòm*^a *dv.* run; fear; experience emotion; *ger zūa zōog*^o run;
ipfv ger zòtìm^m fear 9.2.1.4 *Ò zòtō nīn-báalìg.* He has pity on him,

- zōl*^ε *dv.* castrate
zōlimís^ε *n.* foolishness
zōlv̄g^{o/} *pl* *zōn*^{ne/} *cb* *zōl-* *n.* fool
zōm^{m/} *cb* *zōm-* *n.* flour
zōom^{me} *zōom*^{ne} *pl* *zōomā* *cb* *zōom-* *n.* refugee, fugitive
zōrīg^{a/} *n.* small child WK
zōrv̄g^{o/} *pl* *zōrá* *n.* piece
zū *dv.* steal
zụà *pl* *zụà-nàm*^a *cb* *zụà-* *n.* friend
Zùà *pl* *Zùø*^ε *n.* member of clan Zoose; *subclans pl* *Zụà-wịis*^{ε/}-*wịib*^a, *pl* *Zụà-sābulís*^ε
zù'e *dv.* get higher, more
zùe *dv.* perch, get on top (? variant of *zù'e*)
zūg^{o/} *pl* *zūt*^{ε/} *cb* *zūg-* *zū-* 5.2 *n.* head; as postposition 13.5; *zūgú=n*^ε is also used as a postposition; *zūg-dâan*^a *n.* boss, master (replaces *zūg-sób*^a in KB for meanings other than "the Lord"); *zūg-kōgūr*^ε *pl* *zūg-kōgā* *cb* *zūg-kúg-* *n.* pillow; *zūg-máuk*^o *pl* *zūg-mâ'ad*^ε *adj.* crushed-headed; *zūg-sób*^a *n.* boss; NT Lord; *zū-péelòg*^o *pl* *zū-péelà* *adj.* bald; *zū-píbig*^a *n.* hat
zùlìg^ε *dv.* deepen
zùlìm^{ma} *sv.* be deep
zùlòη^o *pl* *zùlìmà* *cb* *zùlòη-* *adj.* deep
zùlòη^o *n.* depth
zùnzòη^a *zùnzòη*^o *pl* *zùnzòñs*^ε *cb* *zùnzòη-* *n.* blind person
zūøbúg^o *pl* *zūøbíd*^ε *cb* *zūøb-* *n.* hair (of human head); see *kōñbōg*^o
zùød^ε *n.* friendship
zùøl^ε *dv.* make to perch
zū'øm^{m/} *pl* *zū'ømís*^ε *cb* *zū'øm-* *n.* blind person
zū'øm^{m/} *dv.* go blind, make blind
zùø^ε *dv.* begin to perch
zūø^ε *pl* *zụēyā* *cb* *zụà-* *n.* hill
zùø^ε *dv.* befriend
zūríf^o *pl* *zūrí* *cb* *zūr-* *n.* dawadawa seed
zú'vñf^o *pl* *zū'vñí* *n.* dawadawa seed
zùuñg^o *pl* *zùuñs*^ε *zùuñd*^ε *cb* *zùñ-* *n.* vulture
zōvr^ε *pl* *zōyā* *cb* *zò-* *n.* tail; *zò-wōk*^{o/} *adj.* long-tailed