Kusaal Grammar

Agolle Dialect

David Eddyshaw



Contents

	Preface	
	Abbreviations	
	Sources	Vi
1	Introduction	1
	1.1 Kusaal and the Kusaasi	1
	1.2 Grammatical overview.	
	1.2.1 Toende Kusaal	
	1.2.1 Toeffice Rusaal	11
2	Sound system	12
_		
	2.1 Consonants and vowels	12
	2.2 Stress and tone	
	2.3 Orthography	
3	Word structure	17
	3.1 Apocope	17
	3.2 Segmental structure	19
	3.2.1 Roots	
	3.2.2 Rules	
	3.3 Tone patterns	
	3.3.1 Derivation.	
	3.3.2 Historical changes	
4	External sandhi	30
	4.1 Segmental contact	
	4.2 Word-initial tone changes	
	4.3 Prosodic enclitics	
	4.4 Liaison	
	4.4.1 Tone changes in liaison	37
_	Florier	40
Э	Flexion	40
	5.1 Nouns	40
	5.1.1 Noun class suffixes	40
	5.1.2 Compound-initial forms	
	5.1.3 Class set paradigms	
	5.2 Adjectives	
	5.3 Verbs	
	5.3.1 Two-aspect	
	5.3.2 One-aspect	

6	Derivation	59
	C.1. Naminala	ΕO
	6.1 Nominals	
	6.1.2 Prefixes	
	6.2 Verbs	
	6.2.1 Two-aspect	
	6.2.2 One-aspect	/ 1
7	Loanwords	72
8	Noun phrases	74
	8.1 Structure	
	8.2 Pronouns	
	8.2.1 Personaliser pronoun	
	8.3 Proper names	
	8.4 Kinship terms	
	8.5 Quantifiers	
	8.5.1 Numerals	
	8.6 Predependents	
	8.6.1 Postpositions	
	8.7 Postdependents	
	8.7.1 Adverbials, quantifiers and appositives	
	8.7.2 Adjectives and dependent pronouns	
	8.7.3 Deictics and the article	100
9	Verb phrases	102
	9.1 Aspect	102
	9.2 Tense	
	9.3 Mood and negation	
	9.3.1 Negative verbs	
	9.4 Preverbal adjuncts	
	9.4.1 Before tense markers	
	9.4.2 Between tense and mood markers	
	9.4.3 After mood markers	
	9.5 Non-subordination marking	
	9.6 Final particles	
	9.7 Complements and adjuncts	
	9.7.1 Objects	
	9.7.2 Adverbials	
	9.7.2.1 Manner	
	9.7.2.1 Manner	
	9.7.2.2 Time	
	9.7.2.4 Reason	
	9.7.3 Prepositional phrases	1 Z O

10	Clauses	131
	l 0.1 Structure	131
	10.2 Coordination, subordination and cosubordination	
	10.3 Main	
	10.3.1 Questions	
	10.3.2 Commands	
	10.3.3 Conditionals	
	10.3.4 Verbless	
	10.3.5 Ellipsis of main clauses	
	10.4 Catenative	
	10.4.1 Specialised verbs in catenatives	148
	10.4.2 Specialised verbs before catenatives	149
	10.5 Nominalised	157
	10.5.1 Absolute	157
	10.5.2 Relative	159
	10.6 Purpose	
	10.7 Content	
	10.7.1 Reported speech	
	10.8 Prepositional	
11	Information packaging	173
	11.1 Informational focus	173
	11.2 Focusing modifiers	
	11.3 Focusing deictics	
	11.4 Preposing, dislocation and clefting	183
1 2	Formulae	107
12	rormulae	10/
12	Texts	101
13	rexts	191
	13.1 Folk story: The Three Murderers	191
	13.2 Proverbs	193
	13.3 From the 2016 Bible: Mark 5:1-15	197
	13.4 Newspaper article: Power and fuel conservation	199
14	Vocabulary	203
Re	Gerences and Bibliography	221

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. No instructional or descriptive materials were available, but with some coaching from S (Sources, page vi), and with much exposure to the language at work, I eventually learnt to cope in the stylised context of medical interaction with patients. I discovered order and beauty underlying a surface which had once seemed chaotic; I hope to convey a little of that beauty below.

When I lived in Ghana, very little linguistic work on Agolle Kusaal had been published. Happily, the situation has now changed greatly, with the work of Hasiyatu Abubakari and of Anthony Agoswin Musah (see References.) Though I have not drawn on their data or analyses in compiling this grammar, I recommend their publications to all readers who wish to acquire a more profound insight into the language. Other major advances include a very useful dictionary of Agolle Kusaal edited by Tony Naden, and several works on the Toende Kusaal of Burkina Faso from Urs Niggli, including an extensive dictionary.

This present work would not have been possible without four intelligent and patient language consultants. With great reluctance, I have not named them, as I cannot now confirm that they would wish to be identified. I am most grateful to all.

I am grateful to Dr Tony Naden, who showed me hospitality worthy of Africa when I turned up out of the blue at his home in northern Ghana, and also gave 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 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 side-effect.

David Eddyshaw Swansea, 1st July 2024 david.eddyshaw@btinternet.com

Abbreviations

Adj	adjective	С	consonant
CIF	compound-initial form	CQ	content question
Dem	demonstrative	DP	discontinuous past
Foc	focus	Gd	gerund
H	high tone	Ideo	ideophone
Idf	indefinite	Imp	imperative
Ipf	imperfective	Irr	irrealis
L	low tone	LF	long form
M	mid tone	Ng	negative
NP	noun phrase	NSb	non-subordinate
Nz	nominaliser	Pf	perfective
Pl	plural	Pn	pronoun
Pt	particle	PQ	polar question
Pz	personaliser	Qf	quantifier
SF	short form	Sg	singular
Tns	tense	TP	tone pattern
V	vowel mora	Voc	vocative
VP	verb phrase	X	circumflex tone
1S 2P	1st person Sg, 2nd Pl etc	1Vb	one-aspect verb
2P2	2P subject after verb	2Vb	two-aspect verb
3A 3I	3rd Sg animate, inanimate	Ø	dummy head pronoun
+	catenating linker		

In glosses, Dem Idf Ø add A/I/P to mark animate/inanimate/plural: DemA IdfP etc. The glosses do not distinguish bound/free pronouns or short/long demonstratives. Only 1S 2S are labelled as Sg: other (pro)nominals are Sg unless they are compound-initial or marked as Pl. Some set phrases are glossed by single words. Perfective and indicative are unlabelled, and 1Vbs are not marked for aspect. The symbol $_$ (not =) is used to join enclitics to hosts; when it is followed by a space or by punctuation, the enclitic is segmentally zero, but appears in the glossing.

The subscripts after citation forms are explained in §3.1.

The symbol | is used for labelling noun class sets §5.1.1.

Abbreviations for sources and language consultants are given on page vi.

Sources

David Spratt's work has been helpful on Kusaal phonology; otherwise, all analyses below are my own. The morphophonemics and basic syntax are based on discussion and elicitation with four first-language speakers of Agolle Kusaal: W from Koka, K from Tempane, D from Kukpariga, and S from Bawku. All spoke English well. All were male, and were then about forty; they occasionally commented on the incorrect grammar of the young (surely a cultural universal.) I noticed no systematic differences between the speech of men and women.

The description of higher-level syntax reflects my study of Bible versions and literacy materials produced by the dedicated work over many years of the Ghana Institute of Linguistics, Literacy and Bible Translation (GILLBT):

- B Wina'am Gbauŋ (Kusaal Bible.)
- B1 1976. World Home Bible League.
- B2 1996. The Bible League/GILLBT. Text/audio at www.bible.is
- B3 2016. GILLBT. Android application.

Bible references use Chicago Manual short forms; they are to B3 by default.

- G1 Bunkonbid ne Niis ne ba yɛla. 1989. Abokiba, Matthew M.
- G2 Kusaal Solima ne Siilima. 1981. Akon, Samuel and Joe Anabah.
- G3 Kusaas Kuob ng Yir yela Gbaun. 1988. Sandow, William A and Joe Anabah.

One text is taken from the newspaper *Tampana*, published by NFED, the Non-Formal Education Division of the Ghanaian Ministry of Education.

Forms written in the orthography of this grammar appear in this font.

Kusaal written sources are cited in this font, with a transcription below in glossed examples. Foreign proper names are untranscribed, as their pronunciation is very variable and does not reflect the spelling consistently. Toende Kusaal forms are from Niggli 2017 and from the New Testament version, which is available as the Android application "Kusaal BF", ©ANTBA 2023.

Mampruli data are drawn from Naden's dictionary, Mooré from Niggli 2016 and Farefare from Niggli 2013.

Hausa forms are from Newman 1977, but short vowels are written with single vowel symbols, long vowels with double. Syllables without tone marks bear high tone. In standard Hausa orthography tone and vowel length are unmarked.

Arabic words are transliterated using ALA-LC romanisation.

1.1 Kusaal and the Kusaasi

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 main local 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 the western "Toende" part of this region from the eastern "Agolle."

The land is mostly open savanna with scattered trees. Much former woodland is now turned over to farming; tracts survive especially along the White Volta, where settlements are few because of the river blindness endemic until recent times.

Most Kusaasi are arable farmers, living in widely scattered compounds, each the domain of a family head with his wives, sons, daughters-in-law and grandchildren. Cattle-raising is common, but largely the preserve of Fulani and Mossi. A single rainy season lasts from about May to October. The staple crop is millet of various kinds, used to make the porridge called "TZ" ("tee-zed") in local English (Hausa *tuwon zaafii*, 'hot porridge'), and the traditional beer, "pito" (Hausa *fitoo*.)

Kusaasi belong to local exogamous patrilineal clans (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 "oath name" (part of its lineage), but clan names are not used as surnames. Clans have distinctive customs, such as prohibitions against eating particular animals. The Kusaasi originally had no chiefs; in matters of land use the local leader is the tèn-daan 'earth-priest', taken as the heir of the original first settler. In precolonial times the region was dominated by the Mossi-Dagomba kingdoms, founded around the thirteenth century by invaders from east of Lake Chad, who created hereditary chiefs; their subjects continued to provide the earth-priests. Gbewa, the first king, ruled from Pusiga, where he is said to have been swallowed by the earth; in his sons' time the capital was relocated south, to Mamprussi territory. The Dagomba and Mossi kingdoms are cadet branches of this Mamprussi state (Iliasu 1971.) The Kusaasi were not absorbed into the system, and intermittent conflict has continued to this day, particularly over the Bawku chieftaincy (see e.g. Lund 2003.)

In other respects, Kusaasi culture shares much with neighbouring peoples. Traditional Kusaasi dress resembles that of the Mamprussi, Dagomba, Farefare and Mossi, including the long-sleeved smock called a "fugu shirt" in English.

Most Kusaasi retain their traditional worldview. The Creator, Wun, is invoked in greetings and proverbs; but proverbs say

Dìm nε Wιn, da tô'as nε Wιnnέ_. 'Eat with God, don't talk with God.' eat.Imp with God Ng.Imp talk with God Ng

Wιn ⁿyέ kà sin.

'God sees and is silent.'

God see and be silent

Everyday life is instead concerned with local non-anthropomorphic spirits, also called win. A win resides in a bugur, an object such as a stone or horn. A central figure is the ba'a 'diviner', who seeks guidance for a client by casting lots.

A human being consists of a body along with "yɔ̀-vor 'life', win (here 'spiritual individuality') and kikiris, protective spirits ("fairies" in local English.) Men have three kikiris, women four, because of the dangers of childbirth (throughout the cultural zone, three is the man's number, four the woman's.) There are wild kikiris in the bush which try to lead travellers astray; their feet are attached backwards to confuse trackers (W.) Sug 'life force' is associated with a person's tutelary kikiris; witches cause harm by stealing it. Most people have a sigir 'guardian spirit', which is often the win of an ancestor; bugur may also mean "a sigir inherited from one's mother's family." Many Kusaasi personal names refer to an individual's sigir.

In the 1990's most patients attending our clinics in Bawku spoke Kusaal; about equal in second place were Hausa, the regional lingua franca, and Mooré, the major language of eastern Burkina Faso. Few people outside Bawku knew Twi or English. There were then about 250,000 Kusaal speakers; the number has since grown substantially. Kusaal is used for all everyday interaction among Kusaasi of all ages, and serves as an areal lingua franca. My first Kusaal New Testament was a gift from a local Mamprussi colleague who spoke Kusaal and did not know Mampruli.

Written materials remain few, apart from the Bible translation, which is much the most extensive written work in the language.

There is a sharp dialect division between Agolle and Toende Kusaal, probably because of the depopulation near the White Volta caused by river blindness. This grammar deals with the Agolle dialect, which has more speakers and forms the basis of the written language in Ghana (written materials from Burkina Faso are in Toende dialect.) My language consultants understood Toende speakers without much difficulty; however, Agolle speakers may find Toende Kusaal easier than vice versa. Berthelette 2001 reports that Ghanaian Toende speakers understand Agolle Kusaal significantly better than Burkina Faso Toende speakers do, presumably due to greater exposure. He also reports that Toende speakers consider their dialect "purer" than Agolle Kusaal. For an outline of the differences between the dialects see §1.2.1.

Kusaal belongs to the Western subgroup of the Oti-Volta branch of Volta-Congo. Its closest relatives are its western neighbours Nabit and Talni, followed by the close-knit subgroup of Mampruli, Dagbani, Hanga, Kamara and Yare; less close are Mooré, the Farefare/Gurenne and Dagaare/Dagara dialect continua, Safaliba and Nõotre. Western Oti-Volta is about as diverse as Romance; within Oti-Volta, it is relatively close to Buli/Konni and Yom/Nawdm, with shared phonological innovations, parallels in verb morphology, and lexical similarities. More distant are the Gurma languages Gulmancema, Moba, Konkomba, Akaselem, Gangam and Ncam, and the internally diverse Eastern group of Ditammari, Nateni, Mbelime, Byali and Waama.

The Oti-Volta languages



Fr = Farefare, Nb = Nabit, Tl= Talni Yare speakers live amidst other communities in northern Ghana

For further details on the language relationships of Kusaal see *Proto-Oti-Volta*, Eddyshaw 2024.

1.2 Grammatical overview

Long vowels are written double; " marks nasalisation, ' glottalisation; $e \iota$ both represent [1], $o \upsilon$ both [υ]; y is [j]. The full range of vowels occurs only in roots. Within words, CC clusters are limited to intervocalic nn mm || mn, nasal + C between prefix and root, and final mm.

Syllables carry high (H), mid (M, unmarked) or low (L) tone; CVVC syllables may carry a high-low (X) tone. Tone sandhi is extensive. ML always becomes either HL or MH unless pause intervenes. Most words which are not bound to the right cause initial L tone in a following unbound word to become H or X.

External sandhi is complex, and several words with no segmental form of their own are manifested only in the sandhi changes they induce in preceding words.

Apocope §3.1 usually deletes the final vowel mora of any word not bound to the right (with final $CC \rightarrow C$), producing a "short form" (SF); but the last word heard in a negated clause, question or vocative retains its "long form" (LF):

```
Lì à nɛ gbɪgɪm.

'It's a lion.'

Iì ka' gbɪgɪmnɛ_.

'It's not a lion.'

I' ka' gbɪgɪmnɛ_.
```

This appearance of LFs is due to "prosodic enclitics." The symbol _ joins hosts to enclitics; when space or punctuation follows, as here, the enclitic is segmentally zero. (Kusaal has several enclitics of this kind.) "Liaison words", which include the bound forms of the personal pronouns, also cause preceding words to appear as LFs, but with loss of final quality contrasts in non-root vowels:

```
M pυ dυgε_.
Is Ng cook_Ng
M dúgι_bá.
Is cook_3P
M pυ dɔllá_.
Is Ng accompany_Ng
Is Ng accompany_Ng
Is owith them.
Is accompany 3P
```

Liaison words of the underlying form CV become C by apocope:

```
M pv dollí_fo_.
I don't go with you.'
Is Ng accompany_2S_Ng
M dólli_f.
I go with you.'
accompany_2S
```

Before o 'him/her', any LF-final vowel mora becomes o; the SF of o itself is segmental zero, but the vowel change persists:

```
M pv dolló_o_.
I don't go with him/her.'
Ng accompany_3A_Ng
M dóllo_.
I go with him/her.'
1S accompany 3A
```

2P-subject ya after imperatives has a zero SF preceded by ι: Gɔ̀sìmɪ_! 'Look ye!' Two liaison words of the underlying form n also often surface as zero:

All flexion and all regular derivation operate by suffixing; prefixes appear in nominals (e.g. ttta'ar 'big'), but there are no systematic prefixing processes.

Noun flexion uses five distinct Sg/Pl suffix pairs and two non-count suffixes:

Sg	sıd	Pl	sıdıb	'husband'
	buug		buus	'goat'
	viug		viid	'owl'
	zuur		zuya	'tail'
	mòlìf		ílćm	'kob'
	sa'ab			'porridge'
	daam			'beer'

Other suffix pairings are mostly explicable phonologically. The system is partly obscured by sound changes: e.g. bvvg Pl bvvs 'goat' has the same suffix pair as bvvg Pl bvvvs 'donkey', and zvvr Pl zvya 'tail' the same as yv'vr Pl yvdá 'name.'

Adjectives regularly form compounds §8.1 with preceding noun heads; very unusually from a cross-linguistic standpoint, so too do dependent demonstrative, indefinite and interrogative pronouns. Head-final compounds are also common. The first element of a compound takes the suffix ϵ : after apocope, the resulting "compound-initial form" resembles a bare stem. The final element inflects for the number of the head:

bù-tıta'ar zù-tıta'ar mòl-tıta'ar	'big goat' 'big tail' 'big kob'	bù-tıtada zù-tıtada mɔ̀l-tıtada	'big goats' 'big tails' 'big kobs'
bù-kàŋa zù-kàŋa mòl-kàŋa	'this goat' 'this tail' 'this kob'	bù-bàmma zù-bàmma mòl-bàmma	'these goats' 'these tails' 'these kobs'
bὺ-kυυd	'goat-killer'	bù-kuudíb	'goat-killers'

The Sg/Pl suffixes once formed a gender system requiring agreement of adjectives, number words, and pronouns. Agreement has been abandoned in Kusaal, as in most Western Oti-Volta languages, but many traces remain in the morphology.

The great majority of verbs inflect for aspect. Such "two-aspect" verbs suffix ϵ for Pf aspect, da for Ipf, ma for imperative. Again, morphophonemic complications complicate the picture:

Pf	kυ	Ipf	kυυd	'kill'
	dυg		dugud	'cook'
	bùd		bùt	'sow'
	vυl		vun	'swallow'

About sixty "one-aspect" verbs only have an Ipf; they typically express stances (digi 'lie'), relationships (mor 'have') or predicative adjectival senses (gim 'be short.')

Deverbal nominal formation is very productive and largely regular. Almost all verbs can form a gerund, expressing the action or state denoted by the verb, usually by simply adding a noun Sg suffix to the verb stem. Most verbs form an agent noun with the derivational suffix d, as with kvvd Pl kvvdíb 'killer' from kv 'kill'; once again, morphophonemic changes may obscure the patterns, as with e.g. pa'an Pl pa'annib 'teacher' from pà'al 'teach.' The same stem is used for deverbal adjectives.

Most pronouns distinguish animate/inanimate in the singular; there is no formal distinction in the plural. The third-person bound subject pronouns are thus \grave{o} 'he/she', $l\grave{\iota}$ 'it', $b\grave{a}$ 'they.'

There is a definite article la, which ends its noun phrase: boug la 'the goat.' Possessors precede: m̀ boug 'my goat', dau la bôug 'the man's goat.' There are four basic prepositions, including nɛ 'with' and woo 'like.' Nɛ also links NPs as 'and.'

Certain nouns function as postpositions: téebùl la zúg 'onto the table' (zug 'head.') In addition, there is a liaison-enclitic particle n, which has a very general locative sense 'to, at, in.' It may precede the article: boost n la 'to the goats.'

Kusaal is SVO; indirect objects precede direct. There is no special interrogative word order. Verbs show no agreement for person or number, but inflect to distinguish perfective and imperfective aspects. Particles expressing tense, mood and polarity precede the verb; the negative preverbal particles vary by mood. The moods are indicative, imperative and irrealis: irrealis usually expresses future time.

```
Tì sá tìsi_f buug la.

1P Tns give_2S goat the

Tì sá pu tísì_f buug láa_.

1P Tns Ng give_2S goat the_Ng

Tì ná tisi_f buug la.

1P Irr give_2S goat the

Tì kú tisi_f buug láa_.

1P Ng.Irr give 2S goat the Ng

'We gave you the goat yesterday.'

'We didn't give you the goat yesterday.'

'We'll give you the goat.'

'We won't give you the goat.'
```

There are two 'be' verbs: bɛ̀ 'exist' and àe̯n 'be something.' Àe̯n becomes àn unless it is prepausal; in positive main clauses it is usually followed by the focus particle nɛ, and then becomes à. The negative indicative of both 'be' verbs is ka'e̞/ka':

```
M boug bé.
'I have a goat.'
1S goat exist
Lì à ne boug.
'It's a goat.'
3I be Foc goat
Lì ka' bouga_.
'It's not a goat.'
3I Ng.be goat_Ng
M boug ka'e_.
'I don't have a goat.'
1S goat Ng.exist Ng
```

If the verb meaning permits and no free words intervene, the focus particle $n\epsilon$ after a verb has the temporal sense "at the particular time in question":

Ò gòsìd. 'He looks.'
3A look.Ipf
Ò gòsìd nε. 'He is looking.'
3A look.Ipf Foc

Otherwise, the particle focuses following VP constituents; if it is VP-final, it focuses the verb word itself:

M dá' nε bυυg.
1S buy Foc goat
'I've bought a goat.'
(in reply to 'What have you bought?')
Gòsìm nε!
'Look!' ("Don't touch!")
look.Imp Foc

Main and content clauses show a VP tone overlay and altered subject-pronoun tone sandhi. Overlay is absent in the negative or irrealis, after the tense marker daa, and in clauses following coordinating kà. Narrative joins clause after clause with kà, omitting tense marking and overlay so long as the action is proceeding in sequence:

Ò dà gòs buug la.

'He looked at the goat.'

Kà ò gos buug la.

'And he looked at the goat.'

and 3A look goat the

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

Ò gòs ya.
Ò dà gòs ya.
but Ò daa gos.
'He looked.' (remote past)
'He looked.' (before yesterday)
Gòsìm buug la!
'Look at the goat!'
but Da gos buug láa_!
Ng.Imp look goat the Ng

Time/circumstance adverbials may precede the subject; conditional protases (which have yà' 'if' after their own subjects) appear in this position:

```
Fù yá' bòɔd, m̀ ná tɪsɪ_f buʊg. 'If you want, I'll give you a goat.'
2S if want.Ipf 1S Irr give 2S goat
```

The post-verbal liaison enclitic n, which expresses a "discontinuous" today-past, most commonly appears as a marker of modal remoteness in conditionals:

```
Fù yá' bòɔdı_n, m̀ naan tísı_ní_f buug.

2S if want.Ipf_DP 1S then give_DP_2S goat

'If you had wanted, I'd have given you a goat.'
```

A clause may be followed by one or more VPs introduced by n (usually realised as zero, but preceded by liaison.) Such clause "catenation" resembles verb serialisation, but shows much greater flexibility; in particular, a different subject can be introduced by using $k\grave{a}$ instead of n, the $k\grave{a}$ in such clauses being cosubordinating rather than coordinating:

```
    M kûos bυυgυ_ tísì_f.
    'I've sold a goat to you.'
    sell goat_+ give_2S
    Lì ka' bύυg kà m̀ ¬yεtá_.
    'It's not a goat that I'm seeing.'
    Ng.be goat and 1S see.Ipf Ng
```

NPs other than subjects may be preposed before kà for foregrounding. After subjects, n is used for focus; interrogative pronouns as subjects are always focused:

```
    M zugυ_ zábìd. 'My head hurts.' (Not my arm ...)
    1S head_+ fight.Ipf
    Anɔʻɔnì_ ¬yέε_bá_? 'Who has seen them?'
    who + see 3P CQ
```

Clauses are nominalised with n after the subject. This particle fuses with preceding personal pronouns; otherwise, it usually has no segmental form, but is preceded by liaison (sometimes manifest only in the tone sandhi):

```
ón ηyε bυυg la 'he having seen the goat'
3A.Nz see goat the
```

dav la_{-} "ye buug la "the man having seen the goat" man the Nz see goat the

Relative clauses are likewise nominalised with n, and are then headed internally by demonstrative or indefinite pronouns. If the head is the relative clause object, and is not generic, it is most often preposed with ka:

dàṇ-kànì_ dà' buug la 'the man who has bought a goat'
man-Dem.Nz buy goat the

dàṇ-kàn búugù_ bòdìg la 'the man whose goat got lost'
man-Dem goat_Nz get.lost the

fún 'yɛ bú-si'a la 'the goat that you've seen'
2S.Nz see goat-Idf the

bù-kàn kà fù 'yɛ la 'the goat that you've seen'
goat-Dem and 2S see the

Any NP can be relativised. Combinations of initial demonstratives with following n (like kani above) are now being reanalysed as relative pronouns. Purpose and content clauses begin with ye 'that' (less often, ka):

M bɔɔd yé fù dá' bvvg.
II want you to buy a goat.'
Is want.Ipf that 2S buy goat
M tɛ̂n'ɛs yé fù dà' bvvg.
II think that you've bought a goat.'
Is think that 2S buy goat

In content clauses, contrastive 3rd person pronoun subjects can be logophoric:

Ò yèl ye on dá' buug la. 'He says he's bought the goat.' 3A say that 3A buy goat the

To express direct physical perception of how something is, catenatives are used rather than content clauses:

Kà mì n yế kà day la gim. 'And I saw that the man was short.' and 1S see and man the be.short

1.2.1 Toende Kusaal

The differences between Toende and Agolle Kusaal are mainly phonological. Toende Kusaal has no r/d contrast: r appears after word-internal vowels, d elsewhere. Some Toende speakers preserve [ŋ] [ŋm] where Agolle has initial ¬y¬w. Toende may have y or zero before front nasal vowels where Agolle has shifted the original *p to n, e.g. Toende ēŋ, Agolle nìŋ 'do'; Toende yēe, Agolle nìe 'appear.'

The Toende vowel system preserves earlier open monophthongs where Agolle has ie uo: Toende sɛɛs, Agolle sies 'waists'; Toende bɔ'ɔs, Agolle bu'os 'ask.' In Agolle, the breaking of these vowels to diphthongs has left space for the corresponding long close vowels to become open: Toende pe'es, Agolle pɛ'ɛs 'sheep', Toende toom, Agolle tɔɔm 'disappear.' Where Toende and Agolle both show ɔɔ, this represents an original Common Kusaal *aw: cf Toende bɔɔt, Agolle bɔ̀ɔd 'want, wish', Mooré bàoda.

Like Agolle Kusaal, Toende has three basic tones, but with many differences in detail, particularly in tone sandhi.

Toende Kusaal does not denasalise short vowels before nasal consonants: bãŋ 'ring.' It has no short glottalised vowels in closed syllables. It permits geminate consonants only before final LF $\S 3.1$ vowels. Toende deletes *g after all unrounded long vowels word-finally; unlike Agolle $\S 3.2.2$ it otherwise retains *g after long open vowels, with lenition after close vowels: baa LF baaga 'dog', dook LF doogo 'hut' but bii LF biiya 'child.' Prost 1979 has x [$\S 3.2.2$] for *g after short open vowels (pɔxa 'wife'), but as in Agolle Kusaal the outcome is now simply glottalisation: pɔ'a.

Toende word-final g b r normally become k p t. In verb Pfs, however, final b is unchanged and final g is deleted: there are minimal pairs like ya'ab 'mould pots' versus ya'ap 'potter.' Pfs thus only undergo apocope *after* final stops have been devoiced; moreover, Pfs of the form CVgV keep their final vowels in the SF: thus leb 'return', put 'name' but dugu 'cook' (Agolle lèb, pùd, dug.)

Segmental sandhi differs in that the initial consonant of the article la is assimilated to all preceding consonants: niripa 'the people', Agolle nidib la. Similarly, the focus particle me/ne is assimilated to ẽ after all Ipfs: dưẽ 'is eating', Agolle dùt nɛ.

Morphology differs little between Agolle and Toende, except as a consequence of the phonological differences. Minor differences appear in the syntax of relative clauses §10.5.2, but otherwise the syntax of the two dialects seems to be identical.

Berthelette 2001 cites an estimate of lexical cognates between the two dialects of only 84%, but more recent and reliable lexical data suggest a figure of over 96%. However, there is some distinctively Toende vocabulary, like buraa 'man', tına 'come', tıŋ 'go', and the free pronouns tun 'we', nam 'you' Pl. Particles can show significantly divergent phonological developments: Agolle nominaliser n corresponds to Toende ne, linker n to zero, irrealis nà to ne, negative pv to bv, the locative enclitic n to $\tilde{\iota}$, and focus $n\epsilon$ to me phrase-finally, but ne elsewhere. Nasalisation is preserved in Toende \tilde{o} 'he/she' (Agolle \tilde{o}), and the 3rd person Sg inanimate pronoun is la (Agolle l $\tilde{\iota}$.)

2 Sound system

2.1 Consonants and vowels

For phonotactics see §3.2. Symbols have IPA values except where noted. The consonant inventory is

Vowel-initial root syllables are optionally realised with an initial glottal stop. h appears only in loanwords.

ktp are aspirated word- or root-initially. Except after prefixes, written word-internal ktp n represent geminates, but they are realised single in normal rapid speech; n cannot be word-initial. Final g d b are partly devoiced, but still contrast with ktp. Velar stops are labialised before rounded vowels, backed before back vowels, and fronted before front vowels, for some speakers even to palatal affricates; they may represent $[\widehat{t_1}]$ in loans: $\widehat{t_2}$ in loans: $\widehat{t_3}$ in loans: $\widehat{t_3}$ in loans: $\widehat{t_3}$ in loans:

kp gb are labial-velar stops, found only before unrounded root vowels and in prefixes. They may represent labialised velars in loans: bákpàe 'week', Hausa bakwài.

t d n s z l r are usually alveolar, but s z may be dental or interdental; l is never velarised. Word-internal s is often realised [h], and may represent this sound in loans: Àláasìd 'Sunday', Hausa *Lahàdìi*. Before u, z is often noticeably retracted.

r may be realised as a voiced alveolar or retroflex flap or approximant; after epenthetic vowels it may be retroflex lateral. It does not appear root- or word-initially, but d is often realised like r after prefixes or right-bound words ending in vowels.

m n are syllabic when standing alone as non-enclitic words. y is [i]; "w "y are nasalised.

The term "vowel" will be used for both monophthongs and diphthongs. There are seven short monophthongs a ϵ i ι [ι] \circ u υ [υ], and corresponding long vowels written with double letters. Non-root final ϵ \circ are somewhat less open. After alveolars/palatals, ι υ u are slightly more front. In 3A pronouns [υ] is written \circ . In ye 'that', teŋ 'land', keŋ 'go', ken Ipf kèm NSb-Imp 'go/come', ke na 'come' and the pronouns on òn ón òŋa some speakers have [ϵ \circ], others [ι υ].

Diphthongs may be short, long or overlong. Symbols marked $\hat{\ }$ represent vowel sounds which do not constitute morae; word-initial $\hat{\ }$ $\hat{\ }$ $\hat{\ }$ are laxer and longer than y w. Non-initial $\hat{\ }$ e $\hat{\ }$ o in diphthongs represent $[i\ \hat{\ }$ $\hat{\ }$ $[i\ \hat{\ }$].

The primary diphthongs are

							įа	йa		
							ia	ua	įa'a	ųа'а
							iaa	uaa		
ae	ε <u>į</u>			эĕ	u <u>i</u>	νĕ	įе			
ae				эе	ui	υe	ie	ue		ӎа'е
aee							iee	uee		
аŭ	εй		ιй				įау	ЙΟ		
aυ	03	iu					io	uo		

Word- and phrase-internally before consonants other than y, ie uo are [iə uə] and ua'a becomes v'a. Secondary diphthongs occur in liaison §4.4, where all final vowel morae become [i] before the 2P2 enclitic and [v] before 3A; this [v] is written o both within diphthongs and as a monophthong: duà'o_ 'beget him', kisó_ 'hate him.'

Root vowels may be contrastively nasalised and/or glottalised.

Nasalisation is automatic after nasal consonants, except on short vowels *before* nasals. Elsewhere, it is marked by n , preceding ' but following all other vowel symbols: $g\epsilon^n$ ' Ipf $g\epsilon^n$ ' ϵ d 'get angry'; $g\epsilon^n$ 'get tired'; $t\epsilon\epsilon^n$ s 'lands'; $biav^n$ k 'shoulder.'

Glottalisation is realised as creakiness or as a glottal approximant after the first/only mora. It is marked with 'after that mora: pv'ab 'women', pua' 'woman.' Mà'àa 'only' has a unique overlong monophthong. Except in questions, word-final short root vowels glottalise before pause: $g\epsilon^n$ 'tire' falls together with $g\epsilon^n$ ' 'anger.'

All short glottal vowels not due to apocope precede $\mathfrak n$ or $\mathfrak m$ in closed syllables: la' $\mathfrak n$ 'set alight', sò' $\mathfrak n$ a 'well', ni' $\mathfrak m$ 'meat.' Not all speakers have glottalisation here, and it is absent in Toende Kusaal and Farefare cognates. Ya $\mathfrak m$ 'sense' (Farefare $y\acute{\epsilon}m$) and ya'a $\mathfrak m$ 'gall' (Farefare $y\acute{a}$ 'am) have fallen together as ya $\mathfrak m$ /ya'a $\mathfrak m$.

2.2 Stress and tone

Syllables are (C)V(V)(C); except after prefixes, $k t p \eta$ represent CC word-internally. (C)VVV is disyllabic, dividing (C)VVV.

All roots have underlying stress, but monosyllables other than CVVC lose their stress unless they are followed by pause. Nominal prefixes §6.1.2 are not stressed. Prosodic enclitics §4.3 shift the stress of a preceding word to its last syllable.

With the syllable as tone-bearing unit, there are four tones (strictly, tonemes): high (H), mid (M), low (L) and circumflex (X), as in $g\'{\epsilon}l$ 'egg', dum 'knee' (unmarked), bòŋ 'donkey', nû'ug 'hand.' Only CVVC syllables carry X. Enclitics of the form C close a syllable: kà bà kî'e_m 'and they cut me.' (C)VVV bears two tones: nuáa 'hen' MH.

M is always realised as a level tone; L and H are level except before pause, where they are realised as falling, starting at their usual pitch. X falls from H to L pitch over two morae; the fall in prepausal H on CVVC is within the second mora.

Downstep is predictable, and will only be marked in this section.

After H, the initial pitch of both H and X is downstepped to the level of M:

M˙ nyέ ¹náaf la kpεlá.
 T've seen the cow there.'
 M˙ nyé ¹nû'ug la kpεlá.
 I've seen the hand there.'

 $MH \rightarrow M^{\dagger}H$ before a stressed syllable, except at the end of questions. Monosyllables only retain stress if they are CVVC or precede pause; thus

Man ¹bύ-bε'og la bέ.
Man bύ-wɔk la bέ.
Day la ¹sá mèɛd yir la.
Day la sá mè yir la.
'My bad goat is there.'
'The man was building the house.'
'The man built the house.'

Kà m˙ ηyε ¹náaf la. 'And I saw the cow.' (la stressed)

Kà m̀ ηyε náaf la kpεlá. 'And I saw the cow there.'

Prosodic enclitics shift the stress of a preceding word to the final syllable, but the interrogative intonation suppresses downstep insertion despite the stress shift:

Bà à nε mɔ́lì.
Bà ka' ¹mɔ́lii_.
Ö à nε ¹púkɔ̀ɔʰr.
Ö ka' púkɔ̀ɔʰrε_.
Ö ka' puyadu¹gída_.
Bɔ́ kà ò yadugídà_?
'They are kobs.'
'She's a widow.' (pu is a prefix)
'She's not a widow.'
'He isn't scattering.'
'What's he scattering?'

HL on two (C)V syllables, where the second is neither word-final nor stressed, is realised as H extending over both. The unstressed second syllable always prevents the H from being downstepped after a preceding M:

```
Bà ka' di'esídìba_. 'They are not receivers.'
Lì ka' mɔ́lìfɔ_. 'It's not a kob.'
```

The conditions for this realisation are not met in e.g.

```
Ò pυ básì_fɔ_.
Lì ka' 'dágòbìga_.
Bà pυ sjákìda_.
'He hasn't left you.' (word-final)
'It's not the left.' (stressed: da is a prefix)
'They don't agree.' (CVCCV: k = /kk/)
```

2.3 Orthography

Texts differ in orthography from this grammar in several respects. Tone is not marked.

Intervocalic k t p may be doubled (in accordance with the actual pronunciation in very deliberate speech); Il mm nn may be written single. G2 writes ng ng nk for ng nk. After prefixes or CIFs ending in vowels, d is written r (again matching the pronunciation): na'araug na'-dâug 'ox.' Final iya in loans is written ia: dunia 'world.'

B3 uses i for ι ; final ι after nasals is often written ϵ , epenthetic ι υ sometimes e: bareka 'blessing', bɛdeg υ bɛ̀d υ g υ 'much.' Before B3, e o i u represented ϵ υ ι /i υ / υ ; e o were also used for e o in diphthongs, and oo often represented $\upsilon\upsilon$. The mark $_{\cdot}$ is not used: long ae is written aae/aa ϵ (paae pae 'reach'); ι a'/ υ 'a are written ι a', except in B1/2 po'a p ι a' 'woman' Pl po'ab, mo'ar m υ 'ar 'lake'; both a ι a and a υ can be written either au or a υ . B3 writes soe ι 00 uoe si ieu for se ι 00 uoe si ieu for se be ue se io: son'oe 'be better than', toi 'be bitter', kpi'eun 'strong.' B1/2 write uey for ι 00.' zueya 'hills.' For the nasalisation marker " a simple n is written: gon g υ 0" 'wander', t ι 10 te ι 11 te ι 12 te ι 12 think', nyin "yin 'tooth'; there is thus potential ambiguity with n, most often word-finally. Before B3 nn was used for word-final ", but àn 'be' was simply written as a. "Yae 'bright' is written nyain; before B3, "wen 'be like' was written wen. Short glottal vowels are written long, except word-finally in unbound words. B3 often writes 'after modal word-final short root vowels in unbound words, but has kae for kae' 'not be.'

Sandhi contact changes §4.1 are often noted in writing: bummɔr bun-mɔ́r 'rich person', paa na pae na 'arrive.' On the other hand, diphthong changes in liaison §4.4 are often ignored in older texts.

Word division in texts differs in many ways from the usage of this grammar. Hyphens are only written after CIFs §5.1.2 when they end in a vowel symbol and the following stem also begins with a vowel: pu'a-εliŋ puà'-εlíŋ 'fiancée.' Otherwise, CIFs are normally written solid with following words: bikaŋa bì-kàŋa 'this child'; however, CIFs which happen to be spelt identically to Sgs are generally written as separate words: dau kaŋa dàu-kàŋa 'this man.' A peculiarity of B2 orthography is that Sgs are often written in place of CIFs, though the audio version has the expected CIF: thus always Siig Suŋ 'Holy Spirit' for Sì-sùŋ.

Hyphens are consistently written in the phrases used for points of the compass §8.3: ya-nya'aŋ 'East' ("behind you Pl.") They are used to join the elements of personalisations with the pronoun à §8.2.1 when these do not consist of just one word after à: a-daar-paaeya kum à daar páe ya kúm 'a natural death.' Hyphens are also used to link the component words of distributives, adverbials and ideophones formed by reduplication: ayɔpɔi-pɔi 'by sevens' §8.5.1, zɔra-zɔra 'into shreds' §9.7.2.1, lasa-lasa 'speckled' (predicative ideophone §9.7.1.)

The symbol _ is not used. The locative enclitic n, the discontinuous-past marker n, and the enclitic 2P subject pronoun §4.4 are written solid with their hosts:

ku'omin	kù'omւ_n	'in water'
gɔsimiya	gòsìmı_yá_	'look ye!' Gn 29:7 §4.3

Of the enclitic object pronouns, only non-syllabic m 'me', f 'you' Sg are written solid with their hosts; otherwise, host and pronoun are written separately:

	fυ dɔllim	fὺ dóllι_m	'you accompany me'
	m dɔllif	m̀ dɔ̀llι_f	'I accompany you'
but	fυ pυ dɔlli ma	fὺ pυ dɔllí_ma	'you don't accompany me'
	m pນ dɔlli fɔ	m̀ pυ dɔllí_fɔ	'I don't accompany you'

Before B3, m 'me' was also written separately (fu dolli m 'you accompany me'), while f was written uf, with the preceding word in citation form, liaison changes ignored: m dol uf 'I accompany you', m gban'e uf 'I've seized you' (B3 m gban'af.)

3A 'him/her' has a zero SF §3.1, but rounds the preceding vowel mora to o, which is taken for the pronoun itself and accordingly written as a separate word:

```
fu dol o fù dóllo_ 'you accompany her'

fu pu dol oo fù pu dolló_o_ 'you don't accompany her'

fu nyε o fù "yέo_ 'you've seen her'

fu pu nyε oo fù pu "yεό_o_ 'you haven't seen her'
```

Focusing deictics are written separately: bɔɔ la? bɔɔ_lá_? 'what is that?'

Some particles which are not liaison enclitics are nevertheless joined to preceding verbs: so always NSb-Pf ya, which is written eya after consonants in B1/2:

```
li gaadya lì gàad ya 'it has passed by' (B2 li gaadeya)
```

Focus-n ϵ is normally written solid with a preceding verb when it marks temporal focus §11.1: o pian'adn ϵ 'he is talking.' This sometimes happens with focus-n ϵ in other roles, and even with n ϵ 'with': B3 always writes nwen ϵ "wen n ϵ 'resemble.' Na 'hither' is written solid with all forms of k ϵ " 'come': kena ke na 'has come' etc.

Always written solid are alazug 'thus', bɔzug 'why/because', linzug/dinzug 'therefore', saazug 'up above.' Personaliser à §8.2.1 is written solid with the following word when this is the only element which is personalised.

Word-final syllables before prosodic enclitics §4.3 are sometimes mistaken for homophonous particles: ka pu wum na kà pυ wύmna_ 'and do not hear' Mt 13:15 B2, ka ka' win nɛ kà ka' wɪnnɛ´ 'and are not a god' Ez 28:2.

3 Word structure

The open word classes are verbs, nouns, adjectives and ideophones; closed classes are pronouns, quantifiers and particles. Nouns and adjectives are grouped together as nominals. Particular noun and pronoun subtypes are used adverbially. Ideophones may be adjective intensifiers, expressive adverbials, or predicatives.

Many quantifiers and particles resemble nominals in form. Bound pronouns and many particles resemble full-word affixes segmentally. Ideophones often deviate from normal word structure and may even violate the usual phonological constraints, e.g. tólùlù, intensifier for 'tall', fáss, intensifier for 'white.'

Many bound forms are best regarded as words. Bound words need not be dependent: personal pronouns always head NPs, and compound-initial forms (CIFs) are heads before adjectives and demonstratives §8.1. In this grammar, CIFs are hyphenated to the next word: bò-kàn 'this goat', da-nûud 'beer-drinker.'

The only bound forms which differ systematically from both free words and affixes phonologically are prosodic enclitics §4.3 and liaison enclitics §4.4; the term "clitic" will be reserved for these alone. The symbol _ is used to join hosts to enclitics; when this is followed by a space or punctuation mark, it means that the enclitic lacks any segmental form, as with all prosodic enclitics and some liaison enclitic forms (e.g. 'her' in fù "yéo_ 'you've seen her.')

3.1 Apocope

Every Kusaal word which can stand clause-finally has two surface forms, which nearly always differ: the "short form" (SF) and the "long form" (LF.) The SF appears by default, but at the end of clauses with negative VPs, of questions, and of vocatives, the LF appears instead:

dυk la ρύυgυ_n pot the inside	'in the pot'	Lì à nɛ duk. 3I be Foc pot	'It's a pot.'
Lì ka' dukó 3I Ng.be pot_Ng	'It's not a pot.'	Lì à nε dukóɔ_? 3I be Foc pot_PQ	'Is it a pot?'
Lì à nɛ kʊk. Lì à nɛ biig. Lì à nɛ gbɪgɪm. Lì à nɛ yáarìm. Lì à nɛ daʊ.	'It's a chair.' 'It's a child.' 'It's a lion.' 'It's salt.' 'It's a man.'	Lì ka' kʊka Lì ka' biiga Lì ka' gbɪgɪmnɛ Lì ka' yáarɪmm Lì ka' daʊ .	'It's not a chair.' 'It's not a child.' 'It's not a lion.' 'It's not salt.' 'It's not a man.'
βà à nε wídì.	'They're horses.'	Bà ka' wídii	'They're not horses.'

Ò daa si̯ák.	'He agreed.'	Ò daa pυ si̯ákε	'He didn't agree.'
3A Tns agree		3A Tns Ng agree_Ng	
Ò daa dıgı.	'She lay.'	Ò daa pv dıgıyá	'She wasn't lying.'
Ò daa pae.	'He arrived.'	Ò daa pυ paée	'He didn't arrive.'

This appearance of clause-final LFs is triggered by following prosodic enclitics §4.3, which lack segmental form themselves; somewhat modified, LFs also appear before liaison words §4.4.

SFs are derived from LFs by **apocope** of the last vowel mora; special cases are final $ae \rightarrow ae$, $av \rightarrow av$, $ui \rightarrow ui$, $ia \rightarrow ia$, $ua \rightarrow va$. SF-final consonant clusters then drop the second consonant, and final y drops after v/e/i/e/i.

All right-bound words are SFs. Henceforward, except where SFs and LFs are specified separately, all other words cited either in isolation or accompanied only by preceding CIFs $\S 5.1.2$ will be written as SFs, followed by **subscripts** showing how to produce the corresponding LFs, which are given as before the negative prosodic enclitic, but without the changes of tone or final Vm $\epsilon \to Vmm$.

No subscript appears when the LF is obtainable by repeating the SF-final vowel symbol or removing from it, or by leaving a long monophthong unaltered:

gbıgıma	LF	gbıgımaa	'lions'
wìdì		wìdìi	'horses'
pae´		paée	'reach'
d <u>i</u> a'		d <u>i</u> a'a	'get dirty'
pua'		pua'a	'woman'
daŭ		dav	'man'
dà'a		dà'a	'market'

LFs where ia ua become SF ja ua are specified separately, as the subscript notation would imply LFs in jaa uaa: thus kià' LF kì'a 'cut', zuà LF zùa. 'friend.'

Otherwise, the material deleted by apocope is written as a subscript, but with LF-final ϵ implied as the default:

kυka	LF	kυka	'chair'
dυk _o ′		dυkó	'pot'
sae̯ _{ya}		sae̯nya	'blacksmith' D (LF sae ⁿ W)
dıgı _{ya} ´		dıgıyá	'be lying down'
sjàk		si̯àkὲ	'agree'
yàarìm		yàarìmÈ	'salt'
gbıgım _n		gbιgιmnε	'lion'

LF-final syllables carry L, unless the last SF tone is M, in which case the last LF syllable carries either M or H. M is taken as the default, with a following ´ mark signifying that H is to be imposed instead:

kuk _a	LF	kυka	'chair'
sia		siaa	'waist'
daŭ		dav	'man'
dυk _o ′		dυkó	'pot'
viid′		viidέ	'owls'
nua´		nuáa	'hen'
tayn′		táυ ⁿ	'opposite-sex sibling'

X on a CVVC syllable in the SF becomes H if the syllable is open in the LF:

```
nû'ug<sub>2</sub> LF nú'ugò 'hand'
```

Apocope-blocking appears in downtoned adjectives, a few nouns, and many quantifiers, ideophones and particles. The SFs lack apocope; final $Vm\epsilon \to Vmm$; other final $\epsilon \to \iota \upsilon$ (i u after root i u); $L \to M$ on final short vowels after L. Forms ending in short vowels make LFs by prolonging them, with final $LM \to LH$: $b\grave{\epsilon}d\grave{\upsilon}g\upsilon'$ 'much.' All others add $n\grave{\epsilon}$ ($n\acute{\epsilon}$ after M), before which final $LM \to LL$, $mm \to m$, and $VVV \to VV$; these LFs will be specified separately, e.g.

nyae	LF	ⁿ yaenέ	'bright
gùllımm		gùllìmnÈ	'only'
mà'àa		mà'anÈ	'only'

3.2 Segmental structure

Full-word roots are CVV or CV(V)C, where initial C is optional, V(V) is a monophthong or ie/uo, possibly glottalised and/or nasalised, and any final C must be b d g l m n s or r. Stems add up to three derivational suffixes b d g l m n or s, of which only d l m can follow other suffixes. Full words end with a flexion (C)V(V), where C is b d g l m n s r y or f and V(V) is a ϵ D aa or ii. Flexions of the form V are dropped after root vowels. In nominal stems the root may be prefixed by (C)V(N) CVsN or CVIN, where N is a nasal homorganic with the root initial.

Morphonemic rules, followed by apocope, alter vowel qualities and leave the only word-internal CC clusters as nn mm \parallel mn and geminate k t p ŋ, along with NC after prefixes. All others insert epenthetic ι i υ or υ .

3.2.1 Roots

A few CVV roots become CV before some flexions; suffix-initial $b \rightarrow p$, $d \rightarrow t$:

lo	'tie'	wìd-lɔr´	'place to tie up horses' W
dàalìm	'manhood'	dap _a	'men'
dòɔgɔ	'hut'	dòt	'huts'
dì	'eat'	dìt _a	'eat' Ipf

(CV SFs represent underlying CVV §3.1.)

Alternatives with CVV are common, e.g. dòɔd 'huts.' No cases occur with flexions with initial s; with initial g, the only example is zugɔ´ 'head' (Pl zut´.) Verbs carry over Ipf CV into imperatives, but not gerunds: dìm! 'eat!' but dubɔ´ 'food.'

A few cases appear in derivation; here suffix-initial $g \rightarrow k$:

yi	'emerge'	yis	'extract'
tὲ	'pull'	tèk	'pull'

Many CVV roots derive historically from CVC, which can lead to unexpected changes in derivation, e.g. lo 'tie' beside lodig´ 'untie'; yò 'close' but yò'og 'open.'

Before Pl aa, root-final modal vowels insert y, before which long vowels become short, but there is no fronting (contrast §3.2.2 Set 3): noor´ 'mouth', Pl noyá. Here ie uo shorten to je uo: zuor 'hill', Pl zuoya. Glottal CV'V instead becomes CVd:

pòn'or	'cripple'	pɔ̀ʰdà
yu'ur´	'name'	yυdá
yu'or	'penis'	yuoda

Underlying CVg stems may show d by analogy: mb'ar 'lake' Pl muà'a/mb'adà.

Many roots alternate CVC/CVVC, occasionally in flexion, e.g. piim´ 'arrow', Pl pimá, but mostly in derivation, e.g. kaal´ 'count', kal $_{\rm l}$ ´ 'number.' CVC is required before all verb-deriving suffixes: tvvlúg $_{\rm l}$ ' 'hot', tvl $_{\rm l}$ ' 'heat.' Here CieC corresponds to C $_{\rm l}$ C: lìeb 'become', lèbìg 'turn.'

3.2.2 Rules

Three sets of morphophonemic rules apply in order before apocope.

Set 1: consonant deletion and vowel fusion.

```
\epsilon g \supset g \rightarrow jag uag.
```

Single g is then deleted after a ia ua, producing a'a ia'a ua'a; any following vowel is absorbed. Nasal vowels behave identically.

zà'as	*zagsε	'compounds'	zàk _a Sg	*zagga
pjàn'ad	*pɛʰgdɛ	'words'	pjàynk _o Sg	*pɛʰggɔ
pυ'as	*pɔgsε	'female' Pl	puak _a Sg	*pɔgga
pi̯a"'	*pε ⁿ gε	'speak'		
tua'e _{ya} ´	*tɔgya	'be near' (see Set 3)		

g is deleted after aa ie uo unless it precedes oo. Nasal and/or glottal vowels behave identically. Here, when a vowel follows, fusion creates overlong vowels.

aaga → aaa		iega → iaa	uoga → uaa	1
aagε → aee		iegε → iee	uogε → uee	<u> </u>
baa	*baaga	'dog'	baas Pl	
sia	*siega	'waist'	sies Pl	
sàbùa	*sabuoga	'lover'	sàbùos Pl	
pae´	*paagε	'reach'	páar Gd	*paagrɛ
kpì'e	*kpi'egε	'approach'	kpì'er Gd	*kpi'egrε
due´	*duogε	'raise, rise'	dúor Gd	*duogrɛ

g is also deleted after $\varepsilon\varepsilon^n$ oon of the same vowel outcomes as with ien uon. Glottal vowels again behave identically.

zì ⁿ 'a	*zɛʰˈɛga	'red' Sg	zὲn'εs Pl	
nìe	*ทธธgธ	'appear'	nὲεl	'reveal'
nìer	*nɛɛgrɛ	'appear' Gd		
nìed _a	*nɛɛgda	'appear' Ipf §5.3.1		
Mùa	*Mɔɔga	'Mossi' Sg	ΙcćM	'Mooré'
su ⁿ 'e′	*sɔn'ɔgɛ	'improve'	sɔn'ɔda´	'outdoer'

Set 2: consonant assimilation and vowel epenthesis.

Except after prefixes, $CC \to C\iota C$ by default, but mm II nn remain unchanged, $rr \to r$, and several other consonant pairs assimilate:

gg → k		$dd \rightarrow t$	$pp \rightarrow b$
gìk _a bùt _a sɔp _ɔ ´	*gıgga *budda *sɔbbɔ	'dumb' 'plant' Ipf 'writing' Gd	gìgìs Pl bòd Pf sɔb Pf
Ir → II		$mr \rightarrow mn S (mm W)$	$nr \rightarrow nn$
gél _l dum _n tan _n	*gɛlrɛ *dumrɛ *tanrɛ	'egg' 'knee' 'earth'	gɛlá Pl duma Pl tana Pl
mg → ŋ		md → mn/mm	mb → mm
bùŋ _a wùm _{ma} wυm _{mɔ}	*bumga *wumda *wumbo	'donkey' 'hear' Ipf 'hear' Gd	bòmìs Pl wòm Pf

md has become mm throughout for W, and for S before all epenthetic vowels, except in agent noun Pls. Only mm appears in Ipfs, except for a few survivals in B2, e.g. ka pu wum na 'and do not hear' Mt 13:15 (with incorrect word division §2.3.) In Ipfs and gerunds of 3-mora stems, $md \rightarrow mm$ and $mg \rightarrow \eta$ are optional:

Ipf	tɔ́ɔm _{ma} /tɔɔmída	Gd tວ່ວ໗ _ວ /tວວmúg _ວ	'depart (tɔɔm´)'
	kàrìm _{ma} /kàrìmìd _a	kàrùŋɔ/kàrìmùgɔ	'read (kàrìm)'

W and D avoid ambiguous forms, with optionally assimilated Ipfs only as LFs or before focus-ne $\acute{}$. B3 sometimes uses unassimilated 2-mora-stem Ipfs.

$$ng \rightarrow g$$
 $nd \rightarrow nn$ $nb \rightarrow mm$

nd → nn after short root vowels only; nC never assimilates in gerunds.

Ipf	bùn _{na}	Gd bunib _o	'reap (bùn)'
	dìgìnìd _a	dìgìnùg _o	'lie down (dìgìn)'
	gò'ɔnìda	gò'ɔnùg _ɔ	'extend neck (gɔ̀'ɔn)'

 $Vns \rightarrow VV^ns$; $ms \rightarrow s$ optionally after noun stems of more than two morae.

baa ⁿ s kùlìs/kùlìmì	*bansɛ is	'rings' 'doors'	baŋ _a Sg kùlìŋ _a Sg	
ld → nn				
zɔn _n ´ kun _{na} ´	*zɔldε *kulda	'fools' 'go home' Ipf	zɔlʋgɔ´ Sg kul Pf	
df/nf → f				
wìef _o píıf _o	*wiedfo *pιιnfo	'horse' 'genet'	wìdì Pl piiní Pl	
ml/nl → nn		$rl \rightarrow t$		
Bat'	*Barlɛ	'Bisa language'	Barıs'	'Bisa people'
	C 1 .			

 $bm \rightarrow mm$ after short root vowels only:

lèm _{ma}	*lɛbma	'return!' Imp	lèb Pf
lìebìm _a	*liebma	'become!' Imp	lìeb Pf

The only assimilations involving stem-final clusters are mmm \rightarrow mm, $llr \rightarrow ll$: dàm 'shake', Ipf dàmmìda, Imp dàm_{ma}; kùg-dɛllá 'chairs for leaning', Sg kùg-dɛl_l´.

Set 3: further vowel changes before apocope.

Final two-mora modal/glottal ie uo \rightarrow ia ua:

kjà' LF kì'a	Ipf	kì'ed _a	'cut'
kua LF kua		kuod _a ´	'hoe'

Before y, modal vowels shorten, with a ϵ 3 ν \rightarrow ae ϵ is 2 ν (contrast §3.2.1), and all back second morae of glottal vowels become e. Nasal vowels behave like oral.

tɔe̯ _{ya} ´	*tɔya	'be bitter'	tɔɔgɔ	'bitter'
sɔn'eya´	*sɔʰ'ɔya	'outdo'	sɔn'ɔda´	'outdoer'
tu ⁿ 'e _{ya} ´	*tu ⁿ 'oya	'be able'		
tua'e _{ya} ´	*tɔgya	'be near' (see Set 1)		

Before gɔ/kɔ/ŋɔ, root a ε ja ι wa \rightarrow aw εw jaw ιw ɔ; aa εε ie ιι ii \rightarrow av εo io ιν iu; epenthetic $\iota \rightarrow \nu$. Root i is unaffected. Nasal/glottal vowels behave like oral/modal.

bjank ^o	Pl	bi̯an'ad	'shoulder'
yເນຼ໗ _ວ ໌		yıná	'single'
bòk _o		bù'ad	'pit'
dàug _o		dàad	'log'
fε ⁿ 'og _o ´		fɛʰ'ɛd´	'ulcer'
kpi'oŋ _ɔ		kpi'ema	'strong'
viug _o ´		viid´	'owl'
wabug _o ′		wabıd´	'elephant'
malບŋ _ວ		malıma	'sacrifice'

In normal rapid speech this change is not seen in open syllables: Lì ka' dáugo_/lıkada:go/ 'It's not a log.' This is probably a secondary sandhi development.

Epenthetic $\iota \to \upsilon$ after a short rounded root $V+g:y\upsilon g \upsilon m_n$ 'camel', Pl y $\upsilon g \upsilon m a$. After root or prefix Ci/Cu, epenthetic $\iota \upsilon \to i$ u: nulis´ 'make to drink', kugur´ 'stone.'

In saen 'blacksmith', soen 'witch', day 'man' and tayn' 'opposite-sex sibling' the addition of the alba Sg suffix produces exceptional short diphthongs.

3.3 Tone patterns

The tones of an open-class word, prior to external tone sandhi or overlay, are specified by a tone pattern (TP), a suprasegmental stem feature which allocates tones to the syllables of each complete word belonging to the flexional paradigm, with the precise instantiation changing as the segmental form changes. Nominals show three basic tone patterns (H, A and L), verbs two (H and A.) Tone allocation precedes apocope; any tones after H are L. The patterns are

TP H	H	if the first syllable is (C)VVC		
	MMH	if the first syllables are (C)VCVCV(V)		
	MH	otherwise		
TP A	all-M	nominal Sg/Pl	verbs after nà/kυ	
	all-L	nominal CIF	verbs elsewhere	
TP L	all-L	Sg/Pl/CIF; non-initial H in longer stems		

Nominal examples are given as Sg, Pl, CIF $\S 5.1.2$. CIFs are allocated tones before apocope of final ϵ . Many CIFs are remodelled after Sgs, but the tones are unchanged. Verbal examples cite 2Vb Pf and Ipf forms in order; the NSb-Imp is always subject to tone overlay; 1Vbs have only one finite form.

Nominal TP H (bracketed forms are LFs; word-internal ktp n represent CC):

sú'oŋ _a (sú'oŋà)	su'omís	su'oŋ- (su'omέ)	'hare'
saan _a ´ (saaná)	sáam _{ma}	saan-	'stranger'
gɔta´	gɔtíb _a	got-	'seer'
sabíl _l (sabíllè)	sabılá	sabιl- (sabιlέ)	'black'
sabılíg _a	sabılís		'black'
dυk _o ′	dυgυd´ (dυgυdέ)	dυg-	'pot'
kugur´ (kugurέ)	kugá	kug-	'stone'
di'es _a ´	di'esídìb _a	di'es-	'receiver'

Monosyllabic LFs carry H, with SF M: ya' LF yaa 'houses.'

LFs ending in overlong vowels carry MH, with SF M: nua´ LF nuáa 'hen.'

Some nominals have a long root vowel followed by a nasal lost before s or f, or by deleted g; the first syllable still behaves as CVVC:

níiŋ _a	níis	*niinsɛ	niiŋ-	'bird'
píıf _o *pıınfɔ	piiní		pun-	'genet'
wáaf _a *waagfo	wiigí		wa'-	'snake'

Likewise all TP H fusion-verb gerunds: náar *naagr ϵ 'finishing', dí'er *di'egr ϵ 'getting', pún'or *pun'ogr ϵ 'rotting.'

A few root-stems show initial X on CVVC syllables, H otherwise, except with Pls in aa and CIFs:

nû'ug _⊃	nû'us	nu'-	'hand'
nóbìr	nobá	nɔb-	'leg'
gέl _l	gεlá	gεl-	'egg'

So too à $g\hat{a}\upsilon^ng_3$ 'pied crow', $gb\hat{\epsilon}\epsilon^nm$ 'sleep', $\hat{a}^ns\hat{\iota}b_a$ 'mother's brother', $k(\hat{s}\grave{\iota}g_3)$ 'hateful', and the gerunds $\hat{s}\hat{\jmath}^ns\hat{\iota}g_a$ 'talking', $\hat{g}\hat{s}\hat{\iota}g_a$ 'looking', $\hat{k}\hat{\iota}k(\hat{r}\grave{\iota}ug_3)$ 'hurrying.'

Except in loans and 2Vb derivatives, r behaves as CC after short root vowels:

```
nyiríf<sub>2</sub> nyirí 'egusi seed'
```

Verbal TP H 2-mora-stem Pfs are all-M, becoming all-L before interrogative enclitics. They show final H only before enclitic pronouns:

Ò pυ dυgε	'She hasn't cooked.'
Ò pυ dúgὲε_?	'Hasn't she cooked?'
Kà ò dugí lı.	'And she cooked it.'

Verbal TP H is otherwise as in nominals, but fusion-verb Ipfs (and agent nouns) have initial M, not H, and r never behaves as CC in 2Vb stems.

ⁿ yε	ⁿ yɛt _a ´	'see'
dυg	dugud _a ´	'cook'
yadıg´	yadıg(d _a	'scatter'
mɔɔl´	mɔ́ɔn _{na}	'proclaim'
dıgıl´	dıgín _{na}	'lay down'
nok´	nokíd _a	'take'
laŋím	laŋím _{ma}	'wander searching'
pae´	paad _a ′	'reach'
	dıgı _{ya} ´	'lie down'

Nominal TP A shows M throughout in Sg/Pl forms and L throughout in the CIF.

bບບg _a	buus	bù-	'goat'
tan _n	tana	tàn-	'earth'
pua'	ρυ'ab _a	puà'-	'woman'
gbıgım _n	gbıgıma	gbìgìm-	'lion'
mεεd _a	mεεdιb _a	mὲεd-	'builder'
si̯akıd _a	si̯akıdıb _a	s <u>i</u> àkìd-	'believer'
mεεdເŋ _a	mɛɛdɪs	mὲεdìŋ-	'building tool'

Agent nouns from TP A verbs which drop d in the Sg/CIF have TP L Sgs: $p\dot{\upsilon}'\upsilon s_a$ 'worshipper' Pl $p\upsilon'\upsilon s\iota d\iota b_a$.

Before the negative enclitic, W and D have final H (not M) when a nominal LF ends in a long or epenthetic vowel followed by CVCV, mCV or mm:

Sg yugudıré	Pl	yugudaa	'hedgehog'
nwaaŋa		™waamısέ	'monkey'
baŋıda		baŋıdıbá	'wise man'
kparıdıŋa		kparıdısé	'thing for locking'
gbıgımmέ		gbıgımaa	'lion'
zɔɔmmɛ́		zɔɔmaa	'fugitive'
tadímm		tadımısέ	'weak person'

W (not D) permits this before interrogative enclitics as an alternative: Lì à n ϵ gbigimm ϵ 2/gbígimm ϵ 2/ls it a lion?'

Verbal TP A is all-M directly after irrealis nà/kù, and all-L everywhere else.

bòdìg	bòdìgìd _a	'get lost, lose'
zàansìm	zàa ⁿ sìm _{ma}	'dream'
Ò nà bɔdɪg.		'She'll get lost.'
Ò kù bɔdɪgɪda		'She won't be getting lost.'
Ò nà vɛn.		'She'll be beautiful (vɛ̀n _{na}).'

TP L is found only in nominals. All syllables carry L tone, except the second syllables of four-mora m-stems, which are H:

zàk _a	zà'as	zà'-	'compound'
mòlìf _o	ílćm	-lćm	'kob'
pùgùdìb _a	pùgùd-nàm _a	pùgùd-	'father's sister'
sàal _a	sàalìb _a	sàal-	'human'
mὲεŋ _a	mὲεmìs	mὲεŋ-	'turtle'
zìlìm _n	zìlìmà	zìlìm-	'tongue'
nòŋìd _a			'lover'
sìilíŋ _a	sìilís/sìilímìs	sìilíŋ-	'proverb'
zàaʰsúŋɔ	zàansímà	zàansúŋ-	'dream'
dàalím	dàalímìs	dàalím-	'male sex organs'

A non-initial H tone also appears in the words bùgúm bùgúm-/bùgum- 'fire', tàdìmís 'weakness', bùdìmís 'confusion' and nɔ̀ŋìlím nɔ̀ŋìlím- 'love.'

Prefixes are L(L) or M(M). L prefixes have no effect on stem tone patterns, but after M prefixes, root L \rightarrow X/H, and in CIFs M \rightarrow X/H too:

TP H	gumpuzer´	gυmpυzεyá	gυmpυzέr-	'duck'
	pipiríg _a	pipirís	pipír-	'desert'
TP A	fufum _n	fufuma	fufúm-	'envy; stye'
TP L	samán _n	samánà	samán-	'courtyard'

In a few compounds CV-stem M-tone CIFs behave like prefixes:

zug-kugur	zug-kuga	zug-kúg-	'pillow'
ka-wɛnnır	ka-wɛnna	ka-wέn-	'corn'

3.3.1 Derivation

Root-stem words reveal root tone patterns. Irregular TP H corresponds to regular TP H elsewhere: ánsìba 'maternal uncle', ansína 'sister's child'; gósìga gerund of gos 'look.' Normally, TP H forms have H derivatives and TP L/A forms have L/A derivatives; thus always with deverbal nominals. However, all verbs derived with n are TP A, and TP A nominals give rise to TP H quality verbs §6.2.2.

TP A derivatives may be TP L and vice versa:

biiga	'child'	bìilím	'childhood'
nà'ab _a	'chief'	na'am	'chieftaincy' (m-stem)

TP A verb gerunds are TP A if their stems have two morae, and TP L otherwise:

mεεb _o	'building'	sùŋìr	'help'
kùosùg _o	'selling'	zàaʰsúŋɔ	'dream'
míbcćd	'will'	mὲεdím-taa	'fellow-builder'

TP A verb agent nouns and verbal adjectives are TP A if they contain the suffix d (even assimilated in mn/nn), and TP L otherwise; the tone pattern changes between Sg and Pl if the d is dropped in the Sg/CIF.

รงทูเd _a	'helper'	kpìilúŋ _ɔ	'dead'
boodir	'desirable'		
kùosa	'seller'	kuosıdıb _a	'sellers'

TP A verb instrument nouns are TP A: mεεdιŋa 'building tool', kuosıŋa 'seller.'

3.3.2 Historical changes

Historically, M tone represents original H, while a new H tone arose from H¹. The tone-bearing unit was formerly the mora; L on morae which lost their vowels became downstep. Other Western Oti-Volta languages preserve the earlier system. (Interestingly, Bisa, the Mande language bordering Kusaal to the north, has also developed three tones from an earlier two, but by a different path: Morris 2016.)

Long vowels thus formerly bore two tones: late rules have simplified $LL \to L$, $MM \to M$, $LM \to M$ and $MH \to H$, while HM and HL have both become X (H in open syllables.) The internal and external tone sandhi phenomena described here and in §4 originally operated on single morae, but can be recast as rules operating on syllable tones synchronically, as has been done elsewhere in this grammar.

There has been extensive **word-internal tone sandhi** in Agolle Kusaal, mostly following similar rules to those which gave rise to word-initial tone raising §4.2.

ML sequences became MH: compare Kusaal LF fuugʻo with Mooré fúugù 'shirt.' Where HL appears stem-internally, the H is normally itself the result either of the change of ML to MH, or of the external sandhi tone raising rule. There are, however, a few nouns which intrinsically began with H¹, still seen as such in cognates elsewhere in Western Oti-Volta; in Kusaal, this is now realised as X on CVVC syllables, M on CV syllables followed by CV with a vowel that is not epenthetic, and H otherwise §3.3 as with nû'ugɔ 'hand', gɛlá 'eggs', nɔʻbìr 'leg' and gɛ́lˌ 'egg.' One or two nouns have prefixes with an intrinsic H tone, e.g. gbányà'a 'lazy person.'

Non-root M tones which did not become H before downstep became L after a preceding L: thus e.g. *dìga 'dwarfs' became dìgà. L prefixes have no effect on the tones of following roots: dàkiiga 'wife's sibling'; similarly, root M is not subject to M-dropping after M prefixes, except in CIFs.

Most loanwords §7 were adopted early enough to have undergone the same tonal developments as inherited vocabulary: Kusaal has M for the H of the source language, L for L, and these tones were then subject to the same internal sandhi changes, e.g. tilás 'necessity' from Hausa *tiilàs*; kɛɛkɛ 'bicycle' from Hausa *kèekee*. Loans beginning with H tone have been assimilated to the pattern of nouns with H prefixes: thus bákpàe 'week' from Hausa *bakwài* 'seven' resembles gbányà'a 'lazy person' (non-initial kp is also only possible after a prefix in Kusaal.)

English loans need not comply with the usual tone patterns; in particular, English main stress is represented by a H tone which remains H throughout the paradigm: contrast $|\acute{D}r|$ Pl $|\acute{D}y\grave{a}|$ 'lorry, car' with $g\acute{e}l_{\parallel}$ Pl $g\acute{e}l\acute{a}$ 'egg.' However, English loans transmitted via Hausa conform to the usual rules, as with wadá 'law', borrowed from "order" via Hausa $ood\grave{a}a$.

The change of stem-internal $ML \rightarrow MH$ is equivalent to the **H tone spreading** $HL \rightarrow HH^{\downarrow}$ seen in many African languages (Marlo and Odden 2019.) Initial raising §4.2 in external tone sandhi is historically the same process, triggered by an original preceding H tone; many such tones have been deprived of segmental support by apocope §3.1, but may surface as M tones in liaison §4.4.1.

Meeussen's Rule $HH \rightarrow HL$ also operated: it fed H tone spreading, so the ultimate outcome was MH. This underlies the LF-final H of disyllabic TP H words, the change of M to H after M prefixes in CIFs, and the M-drop external tone sandhi.

4 External sandhi

Sandhi includes segmental contact, tone sandhi, and suppression of apocope. Apocope and tone overlay precede all tone sandhi; M-drop and tone changes before interrogative enclitics precede initial raising, which precedes all other tone sandhi.

4.1 Segmental contact

Within VPs, verb-final ie ue are realised [iə uə] and other Ve \rightarrow VV, Ve \rightarrow V, unless y follows; this is only noted orthographically with àe be' and kae' 'not be':

```
    Dúe wεlá_? [duewɛla] '(You) arose how?' (greeting)
    Ò pàe na. [σpa:na] 'She has arrived.'
    Manι_ án dú'atà kà fun mɛ́n áen. 'I'm a doctor and you are too.' W
    1S_+ be doctor and 2S also be
```

Within phrases, final short vowels denasalise before word-initial nasals; this is only noted orthographically with ke na 'come' and \grave{a}^n 'be' before focus-ne´:

```
M á nε dú'atà. 'I'm a doctor.'

1S be Foc doctor
```

Initial C is often lost in focus-nɛ´ §11.1 after d t r l m and in ¬wà 'this' after any consonant. Final [l m n] of the preceding word are geminated:

yὸɔd nε	[jɔ:dɛ]	'is closing'
zòt nε	[zɔtɛ]	'is running'
kpàr nε	[kpare]	'is locked'
dol nɛ	[3:lcb]	'is accompanying'
zàm nε	[zam:ɛ]	'is cheating'
zɔn ʰwá_!	[zon:a]	'fools!' (as a vocative §10.3.4)

Final nasal consonants of right-bound words adopt the place of articulation of following C, as does syllabic n, but not syllabic m.

Across liaison, a a is usually rendered [a], ι a as [a] or [ɪ], and ι o as [ʊ:].

```
    Ò nìŋί àlá. [niŋ:ala]/[niŋ:ɪla] 'She's done this.'
    Pὲεdá àlá_? [pɛ:dala] 'How many baskets?'
    Bà gòsí ò biig. [gɔsʊ:bi:g] 'They've looked at her child.'
```

4.2 Word-initial tone changes

Initial raising changes a following word-initial L to X on CVVC syllables, and to H otherwise, unless the L is "fixed" (see below.) Raising follows all words ending in M tone, along with all words not bound to the right *except* TP A §3.3 verb Pfs without NSb tone overlay §9.5, nominal Pls ending in H tone á or í, and some noun forms which have been affected by M-drop (see below.) Thus e.g.

```
M ˈwé' búŋ la.
but M daa ˈwé' bùŋ la.
iI hit the donkey.'
(no NSb tone overlay after daa)
M dìgà bódìg ya.
iMy dwarfs have got lost (bòdìg).'
but M yugumá bòdìg ya.
iMy camels have got lost.'
```

By default, all subject pronouns are also followed by raising, but in clauses with NSb marking, raising is always absent after \grave{o} $\grave{l} \grave{t}$ $\grave{b} \grave{a}$, and absent after \grave{m} $\grave{f} \grave{v}$ $\grave{t} \grave{v}$ \grave{a} if they are directly preceded by ye 'that' §9.5. Spratt's *Introduction to Learning Kusaal* shows that personal pronouns followed by initial raising formerly carried M tone.

Initial raising does not occur across pause, and it does not follow clause adjuncts, but otherwise it crosses phrase boundaries:

```
Bà daa tís nà ab la bún. 'They gave the chief a donkey (bùna).'
3P This give chief the donkey
```

Fixed L tone appears on the pronouns m̂ fù ò lì tì yà bà à, linker kà, all forms of nominaliser n̂ (including segmental zero), all à prefixes and all numeral prefixes. Fixed L is not subject to raising. Unless pause intervenes, a preceding M becomes H:

```
nà 'ab lá _{\rm ny\epsilon} búŋ la 'the chief having seen the donkey' chief the Nz see donkey the
```

M-drop applies only within NPs. After all free predependents except personal pronouns, and after all CIFs ending in M tone, whether dependent or head, unprefixed words with initial M change all tones to L; M prefixes change to L, but the rest of the stem is unaffected. M-drop affects just the following word (which may be a CIF.) It applies before initial raising, which usually turns the new initial L to X/H. It precedes tone changes due to liaison: day la pɔ́ɔgv_n 'in the man's field (pɔɔgɔ´).' It may change H on CVVC to X by analogy: day la nâaf 'the man's cow (náafɔ).'

e.g.	man gbıgım	'my lion'	day la gbígìm	'the man's lion'
	man yugúm	'my camel'	day la yúgùm	'the man's camel'
			mɔɔgʊ_n yúgùm	'a wild camel'
			m̀ bi̯eyá yùgùm	'my sibs' camel'
	nà'-biig _a	'prince/princess'	nà'ab bîig	'a king's child'
	dà攻-wɔk bîig	'tall man's child'	nin-wók bîig	'tall person's child'
	gbìgìm-kvvd _a ´	'lion-killer'	yນgນm-kῦυd _a	'camel-killer'
	sù'-paalíg _a	'new knife'	fu-páalìg _a	'new shirt'

Quantifiers are thus liable to M-drop as heads of partitive constructions §8.6, but not as dependents, except after CIFs ending in M tone: ligidi piiga 'ten coins' but ligidi la píigà 'ten of the coins'; kugur yınní or kug-yínnì 'one stone.'

There is no initial raising following monosyllabic or disyllabic words which are themselves affected by both M-drop and initial raising after a free predependent:

	Day la báŋ bòdìg ya. man the ring get.lost NSb	'The man's ring (baŋa) has got lost.'
	Day la yúgùm bòdìg ya.	'The man's camel (yugúm _n) has got lost.'
but	M bịeyá bàŋ bódìg ya. M bịeyá yògòm bódìg ya. Day la sô'ug bódìg ya. Day la yúgùdìr bódìg ya. nin-wók bîig	'My sibs' ring' (no initial raising) ' camel' (no initial raising) 'The man's knife (sὺ'υg _a)' (no M-drop) ' hedgehog (yugudɪr)' (3 syllables) 'tall person's child' (CIF predependent)

M-drop applies sequentially. Words already affected by M-drop do not alter, and the pattern of initial raising reflects the sequence of applications:

fuug dɔ̂ɔg	'tent' (fuugɔ´ 'cloth', dɔ̀ɔgɔ 'hut')
pù'ʋsùg fûug dɔ̂ɔg	'tabernacle' (pὐ'υsὺg _Ͻ 'worship')
day la fú-páalìg	'the man's new shirt (fu-páalìg _a)'
day la bîig bìer nâaf zùur	'the man's child's sib's cow's tail' W
	(biig _a , bier´, náaf _ɔ , zʋʋr)

Historically, initial raising reflects H tone spreading, and M-dropping an instance of Meeussen's Rule; both have word-internal analogues §3.3.2.

4.3 Prosodic enclitics

All prosodic enclitics have a zero segmental form (for such a clitic elsewhere, cf Churchwood 1953 pp6ff on the Tongan "definitive accent", discussed at length in Spencer and Luís 2012 pp132ff.) Prosodic enclitics cause preceding words to appear as LFs; final Vmε → Vmm, and three-mora monophthongs reduce to two. Resulting monosyllabic TP H LFs carry H: tɔɔm´ LF tɔɔmm 'disappear', gaan´ LF gáan 'ebony.'

The **negative** enclitic ends clauses containing a negated/negative verb §9.3 §9.6. It changes LF-final L syllables to M; this rule applies after initial raising.

```
Lì ka' dvkó_.
                                                   'It's not a pot (dvk<sub>2</sub>').'
       3I Ng.be pot Ng
       Lì ka' nóbìre .
                                                   'It's not a leg (nóbìr).'
       Bà ka' mólii .
                                                   'They are not kobs (mòlì).'
       Lì ka' yàarımm .
                                                   'It's not salt (yàarìm).'
       Lì ká' ò tumm .
                                                   'It's not her medicine (tim).'
                                                   'It's not their market (dà'a).'
       Lì ká' bà da'a .
                                                   'It's not medicine.'
but
       Lì ka' tîımm .
       Lì ka' dá'a_.
                                                   'It's not a market.'
```

Similar LFs may end clause adjuncts §10.1, even sometimes yà'-clauses:

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

Kikirig yá' mɔr buudɛ, fun tísò_ kà ò lébìg ò mɔɔgu_n.

fairy if have innocence 2S give_3A and 3A return 3A grass_at

'When a fairy is in the right, let it go back to the bush.' §13.2
```

Commands consisting of a verb alone or verb + 2P2 sometimes end in LFs of this kind: gɔ̀sima! 'look!', gɔ̀simɪ_yá! 'look (Pl)!'; so too the greeting nɛ sɔ́nsìga! §12.

The **vocative** enclitic ends vocative clauses. It changes LF-final L to M. It sometimes imposes a falling intonation on final M.

```
M pua' nέ m̀ biisε_! 'My wife and my children!'

1S wife with 1S child.Pl Voc
```

The two **interrogative** enclitics end questions.

Before the polar-question enclitic, LF-final short vowels are lengthened:

```
Lì à nɛ nɔ́bìrɛ̀ɛ_? 'Is it a leg (nɔ́bìr)?'
3I be Foc leg PQ
```

Before the content-question enclitic, LFs ending in long vowels or $m\epsilon$ adopt the segmental form of the SF:

```
Ànó'onì "yɛ nóbìrè?
                                       'Who's seen a leg?'
who +
        see leg CQ
Ànó'ɔnì "yɛ sú'ugà ?
                                       'Who's seen a knife (sù'vga)?'
Ànɔʻɔnì "yε dυkɔ́?
                                       'Who's seen a pot (duk<sub>2</sub>')?'
Ànó'onì_ "yɛ mólì_?
                                       'Who's seen kobs?'
Ànó'onì "yé?
                                       'Who has seen?'
Ànó'ɔnì_ "yε bέdùgú_?
                                       'Who's seen a lot (bɛˈdùgu´)?'
Ànó'onì wóm?
                                       'Who has heard (wòm)?'
```

All questions have final *falling* intonation and end with a L or H tone. If all tones of the LF before an interrogative enclitic are M, all of them become L. This rule applies before initial raising, to which the new L tones are now subject.

```
Ànɔʻɔnì_ nyɛ bà bìigà_?
Ànɔʻɔnì_ nyɛ bíigà_?
Ànɔʻɔnì_ nyɛ bíigà_?
Yho's seen a child?'
Yho's seen hills (zuoya)?'
Yho's seen hills (zuoya)?'
Yhat (bɔ) do you want?'
Yhasn't she cooked (dug)?'
Yhill I get lost?'
Yhill I get lost.')
```

4.4 Liaison

Liaison words prevent apocope applying to the preceding word, which retains its final LF vowel, but with loss of its quality and length contrasts.

Left-bound liaison words will be called **liaison enclitics**: this group comprises locative n, nominaliser \grave{n} , discontinuous-past n, 2P2 $_{ya}$, and the object pronouns m_a $f_{0.0}$ It ti ya ba, along with la^n wà wàna when used as focusing deictics §11.3; these are always preceded by liaison. Non-enclitic liaison words are the right-bound pronouns \grave{m} \grave{n} \hat{n} \grave{n} \grave{n}

Before liaison LF-final non-root short vowels become ι , which many speakers round to υ after f or a rounded vowel + g/ŋ. Final ya is dropped; then final ia/ie \rightarrow ie, ua/ue \rightarrow uo, and all other final Ve/V \rightarrow VV; fusion verbs §5.3.1 behave segmentally and tonally exactly like CVV-stems. Thus e.g.

```
+ n 'at' →
kυka
                'chair'
                                                kυkι n
dvk_2'
                'pot'
                                                dυkί n
poog<sub>2</sub>
                'field'
                                                poogú n
gbàyŋ<sub>2</sub>
                'book'
                                                gbàunu n
                'market.'
dà'a
                                                da'a n
                'water'
kù'om
                                                 kù'omı_n
nyε
                'see'
                                + n past \rightarrow
                                                <sup>n</sup>yεε n
ia LF ia
                'seek'
                                                ie_n
pie'
                'wash'
                                                 pie_n
due'
                'raise'
                                                duo n
gban'e'
                'seize'
                                                gban'a n
sυ'e<sub>va</sub>´
                'own'
                                                รบ'บ n
νυe<sub>va</sub> ′
                'live'
                                                vvv_n
Tì gósí bà biis.
                                                 'We've looked at their children.'
1P look 3P child.Pl
```

Before non-enclitics, or enclitic m, final mi may become m, its tone shifting to the preceding syllable: Gɔ̀sím fò nû'ug! 'Look at your hand!', Gɔ̀sim_m! 'Look at me!'

Nominaliser n fuses with preceding pronouns §8.2; the change $M \to H$ before its fixed L tone is the only sign of its presence elsewhere for my consultants, but in texts liaison may precede, and/or it may appear as n, especially after proper nouns.

```
nà'ab lá_ gɔs búŋ la 'the chief having looked at the donkey'
chief the_Nz look.at donkey the

ya zuobid wusa kalli an si'em 'the number of all your hairs' Lk 12:7
yà zuobíd wusa kállí_ àn si'em

2P hair.Pl all number_Nz be how
```

Linker n appears as n after pause, and zero or n after proper nouns. Elsewhere it is realised as zero with preceding liaison; LFs ending in m n η followed by non-root short V drop V, and LF-final VV is often shortened. Older texts often show n here too.

```
Wáafù_dúmo_. 'A snake has bitten him.' W snake_+ bite_3A

Kà ò zóɔ_ ke na. 'And he came running.' and 3A run_+ come hither
```

```
Mam tummi tisid anɔ'ɔnε? 'Who am I working for?' Eccl 4:8

Mam túmmι tísid ànɔ'ɔnε.?

1S work.Ipf + give.Ipf who CQ
```

Some liaison words induce further quality changes in LF-final vowels.

Before the 2P object ya, any back second morae of long vowels are fronted, lax morae becoming [i] and tense becoming [i]:

```
Kà bà gbán'e_ya.'And they seized (gban'e´) you.'Kà bà kύe_ya.'And they killed (kυ) you.'Kà bà zúi_ya.'And they stole (zu) you.'
```

 $3A_0$ and $2P2_{ya}$ lose their entire segmental form in their SFs. Both completely override the vowel quality of the pre-liaison mora, creating secondary diphthongs. The mora before $_0$ becomes o [v], fusing with the LF of the pronoun as o_o [v:], while the mora before $_{ya}$ becomes [i]:

bòoda	'want'	$+$ o $3A \rightarrow$	_obcćd	LF bɔ̀ɔdó_o
tùm	'send'		tùmò_	LF tùmò_o
dì	'eat'		dìo_	LF dìò_o
ịa LF ia	'seek'		ío_	LF ió_o
zu	'steal'		zúo_	LF zuó_o
àe ⁿ ya	'be'		ao ⁿ _	LF àón_o
pae´	'reach'		páo_	LF paó_o
pie´	'wash'		pío_	LF pió_o
due′	'raise'		dúo_	LF duó_o
zu	'steal'	+ $_{ya}$ 2P2 \rightarrow	zue_	LF zue_yá
bὲ	'be'		bει_	LF bει_yá

Overlong monophthongs reduce to two morae: SF/LF kúo 'kill her.' va itself (< *ɲa) becomes ní (< *ɲı) before liaison:

```
Dì'emt_! 'Receive (Pl)!'

receive.Imp_2P2

Dì'emt_ní_ba! 'Receive (Pl) them!'

receive.Imp_2P2_3P

Dì'emt_nó_! 'Receive (Pl) her!'

receive.Imp_2P2_3A
```

```
nɔŋimini ya pu'ab 'love (Pl) your wives' Col 3:19
nɔŋimi_ní yà pu'ab
love.Imp_2P2 2P woman.Pl
```

Numeral-prefix à changes preceding LF-final short vowels to a, but in all other cases LFs before à are the same as LFs before consonant-initial liaison words:

```
M mór nε bijsá àtán'.
                                                 'I have three children.'
       1S have Foc child.Pl three
       Pὲεdá àlá ?
                                                 'How many baskets?'
       basket.Pl how.many CQ
       Ò nìní àlá.
                                                 'She has done thus.'
but
       3A do thus
       Fù áa<sup>n</sup> ànó'ɔnè_?
                                                 'Who are you?'
       2S be who CQ
       yeli Abaa
                                                 'said to Dog' G2 p20
       yèlì à Baa
       say Pz dog
```

4.4.1 Tone changes in liaison

Tone changes induced by liaison words apply after initial raising. Locative n changes any preceding LF-final L to M:

```
p 	ext{post}_0 	ext{ 'field'} + n 'at' 	o p 	ext{post}_0 n
b 	ext{iig}_a 	ext{ 'child'} 	ext{ biig}_n n
y 	ext{aad} 	ext{ 'graves'} 	ext{ yaad}_n n
k 	ext{vud}(b_a 	ext{ 'killers'} 	ext{ kvud}(b_l n)
```

Past n and 2P2 ya change any preceding LF-final L or non-root H to M:

```
'cook'
dυg
                              + n past → dvgv_n
mὲ
               'build'
                                             mɛɛ_n
               'lose'
bàdìg
                                             bòdìgi n
yadıq'
               'scatter'
                                             yadıgı n
kuuda′
               'kill' Ipf
                                             kυυdι n
dol<sub>la</sub>'
               'go with'
                              +_{va} 2P2 \rightarrow doll\iota
                                                            LF dollu yá
```

After Pfs without NSb or irrealis tone changes, bound object pronouns carry M (if constituting a syllable) and change any preceding LF-final M to H:

```
bòdìg
              'lose'
                            + ba 3P \rightarrow
                                          bòdìgì ba
              'eat'
                                          dìı ba
dì
                            + m<sub>a</sub> 1S → yadıgí_m
yadıg'
              'scatter'
                                                        LF yadıgi_ma
                                                        LF dugí_ma
              'cook'
                                          dυgί_ m
dυq
              'kill'
                                          kύυ m
                                                        LF kύυ ma
kυ
pae'
              'reach'
                                          páa m
                                                        LF páa ma
bàs
              'abandon'
                            + \circ 3A \rightarrow
                                          bàsò
              'look'
gos
                                          gosó
```

In all other cases, bound object pronouns change preceding LF-final L to M. Thus with Ipfs (for the pronoun tones, see below):

```
kuuda′
                             + m<sub>a</sub> 1S → kυυdί m
                                                         LF kvvdí ma
              'kill'
bàsìda
                                           bàsìdı m
                                                         LF bàsìdı má
              'leave'
yadıgíd<sub>a</sub>
                                           yadıgidi m LF yadıgidi má
              'scatter'
nòŋ
              'love'
                                           nòŋı m
                                                         LF nònı má
                            + 0 3A \rightarrow
kuuda'
              'kill'
                                           kυυdó
bàsìda
              'leave'
                                           bàsìdo
                                           yadıgído_
yadıgíd<sub>a</sub>
              'scatter'
```

After NSb marking (which first changes all tones to L §9.5):

```
Ò bòdìgι_m.
՝She's lost me.'
Ò bòdìgo_.
'She's lost him.'
Ò yàdìgι_bá.
'She's scattered them.'
Ò kυυ_bá.
'She has killed them.'
```

Except for object pronouns after Pfs without NSb or irrealis marking (see above), and for the irregular locative form yáa_n 'at home' §9.7.2.3, enclitics constituting a syllable carry M after *non-root* H, and H otherwise:

```
p 	ext{post}_0 'field' + 	ext{ n 'at'} 	o 	ext{post}_0 LF p 	ext{post}_0 LF y 	ext{aad}_n LF y 	ext{aad}_n LF y 	ext{aad}_n \text{O ká' bà da'a_n\xi_.} 'He is not at their market (dà'a).' 'He is not at market.'
```

Enclitics carrying M on the SF change it to H on the LF:

```
Kà m̀ básì_ba.'And I left them.'Kà m̀ pv básì_báa_.'And I didn't leave them.'Ànó'onì_ básì_bá_?'Who's left them?'
```

LF o 'him/her' is tonally null, but final $\grave{o}_- \rightarrow o_- o$ before the negative enclitic, and final $o_- \rightarrow \acute{o}_- o$ before all prosodic enclitics. Final overlong vowels are assigned tones like -VCVV, so SF H corresponds to LF MH.

Linker n is toneless. A preceding LF-final tone is M after M, L otherwise. Initial raising follows n whenever the SF of the preceding word would induce it:

```
amaa o kena ye o tum tisi ba 'but he came to serve them' Mt 20:28 àmáa ò ke na yé ò túm_ tìsì_ba
but 3A come hither that 3A work_+ give_3P

M nók sú'ugù_ kiá' nim la. 'I've cut the meat with a knife.'

1S take knife + cut meat the
```

Focusing deictics are preceded by similar LFs to linker n.

All other liaison words begin with a fixed L tone, before which M becomes H. Before nominaliser no other tone change occurs; before the non-enclitics, final tones are as before enclitic object pronouns or the locative particle, but with H for M:

```
Kà bà dìtí bà dub.

'And they were eating their food.'

and 3P eat.Ipf 3P food

bane na yel Zugsobi ba tuuma a si'em la

bànì_ nà yɛl Zug-sɔ́bí bà tuuma_ àn si'em la

DemP_Nz Irr say Lord 3P work.Gd.Pl_Nz be how the

'those who will tell the Lord how their deeds are' Heb 13:17 B2
```

5 Flexion

5.1 Nouns

5.1.1 Noun class suffixes

Nouns inflect for number by adding noun class suffixes to the stem; the stem appears with the suffix ϵ as a compound-initial form (CIF) before other nominals §8.1. Forms will be cited in the order Sg, Pl, CIF.

In Bantu studies, Sg and Pl noun class affixes are regarded as marking distinct noun classes, and specific pairings of such classes are called "genders." This term is inappropriate in languages like Kusaal, where agreement has been abandoned and the groupings now play a purely morphological role, more like declensions. Accordingly, class suffix pairings will be called "class sets"; unpaired suffixes are regarded as forming sets by themselves. Sets are labelled using the symbol |, written either between a Sg and Pl suffix, or after an unpaired suffix.

The Sg|Pl pairs a|ba ga|s ϵ go|d ϵ r ϵ |aa fo|ii form five class sets accounting for most count nouns; unpaired bo| m ϵ | form two more sets, mostly of mass nouns:

a ba	sıda	sıdıb _a	sìd-	'husband'
ga sε	bυυg _a	buus	bù-	'goat'
gp dɛ	viug _o ´	viid´	vi-	'owl'
rε aa	nɔɔr´	nɔyá	no-	'mouth'
fɔ ii	mòlìf _o	mòlì	mòl-	'kob'
bɔ	sa'ab _o		sà'-	'porridge'
mε	daam´		da-	'beer'

Every other pairing is regarded as a variant of one of these seven sets.

- a|ba Seven nouns referring to older/important people use ba as Sg: $n\grave{a}'ab_a$ 'chief.' After short V+Inr, $r\epsilon$ may replace Sg a: $B\grave{n}_n$ 'Moba person.' To avoid ambiguity, m-stems take Pl $s\epsilon$ instead of ba, or pluralise with $n\grave{a}m_a$ (see below.)
- ga|sε Some human-reference ga|sε nouns have variant Pls with ba; after rounded vowels, ga often becomes gɔ: nû'ug_> Pl nû'us 'hand.'
- gɔ|dε The Pl suffix dε is prone to being replaced by other suffixes. CVm/CVn stems regularly substitute Pl aa for dε: gbayŋɔ´ Pl gbaná 'skin.'
- rε|aa Language names may use |ε instead of Sg rε: Mɔɔl 'Mooré.'
- fɔ|ii Several nouns show fɔ|ii suffixes in only one number.
- $m\varepsilon$ | Countable $m\varepsilon$ | nouns pluralise with aa or $s\varepsilon$, or with nam_a .

The word nàma follows count CIFs/mass Sgs to make Pls: kpὲεʰm-nàma ˈelders', daam nám ˈbeers.' It pluralises loanwords, pronouns, quantifiers, Pls used as Sgs, mass nouns in count senses, and NPs with à §8.2.1; it is used to avoid ambiguous Pls, and in the three nouns

mà	mà nám <i>sic</i>	mà-	'mother'
ba'´	ba'-nám _a	ba'-	'father'
zuà LF zùa	zuà-nàm _a	zuà-	'friend'

Apocope-blocking is seen in many manner nouns §9.7.2.1. A few other apocope-blocked nouns may be loans from related languages without apocope.

The Sg SF is usually enough to identify the class set, and hence to predict the correct Pl form, given whether the word has human reference. In cases where the class set is not clear from the Sg SF, there may be vacillation between class sets, suggesting that speakers actually do use these criteria to determine class set membership synchronically; this is supported by the fact that noun loanwords are usually fitted into the class sets by analogy §7.

Nouns with Sg SFs ending in long vowels, or in unrounded vowel morae followed by velars, belong to $ga|s\epsilon$; nouns ending in rounding diphthongs or rounded epenthetic vowels followed by velars belong to $go|d\epsilon$ (with Pl aa for $d\epsilon$ with CVm/CVn stems.) However, nouns ending in a root rounded monophthong before a velar may belong to either $ga|s\epsilon$ or $go|d\epsilon$, and some vacillate between the two sets.

All nouns with Sg SFs ending in f belong to folii.

Human-reference nouns otherwise default to a|ba (Sg rɛ after short V + l n r), except for stems ending in a long vowel, which have been transferred to rɛ|aa in Agolle Kusaal (here Toende preserves the Pl ba, e.g. pɔkõot Pl pɔkõp 'widow', beside Agolle pùkɔ̀ɔ¬r Pl pòkò¬yà.) Exceptional are nàyiiga 'thief' and ba'a 'diviner', which both belong to a|ba, and zɔɔmn 'fugitive', which is rɛ|aa. The ba-singular variant of a|ba accounts for most human-reference nouns with Sg SFs ending in b, and also for sàamma 'father', dìemma 'man's parent-in-law' and dàyáamma 'woman's parent-in-law.'

2Vb gerunds with SFs ending in m belong to bɔ|; otherwise, mass nouns with SF final -m belong to $m\epsilon$ |, and those with final b or p to bɔ|.

Names of languages belong to the le Sg variant of relaa.

Non-human-reference count nouns with Sg SFs ending in | n r | belong to $r\epsilon |$ as do those with Sg SFs ending in m apart from a few $m\epsilon |$ nouns which have secondarily developed count senses, like dàalím 'male sex organs' ("masculinity"), and the noun piim´ Pl pimá 'arrow', which is a relic of a lost "long thin things" set.

There is some correlation between class set and meaning:

a|ba nouns all refer to people. This set includes all agent nouns.

ga|s ϵ has general membership, but includes the names of most trees, of many larger animals, and of tools (including deverbal instrument nouns.) Most nouns referring to people belong to either a|ba or ga|s ϵ .

go|d ϵ and r ϵ |aa are the default non-human countable class sets. They include all names of fruits, and four out of five nouns for body parts. Human-reference go|d ϵ nouns are pejorative, e.g. zolog $_{o}$ 'fool.' Stems referring to people may use Sg go for the place where they live. Most human-reference r ϵ |aa nouns are CVV-stems transferred from a|ba for phonological reasons. Language names may take Sg | ϵ .

fo|ii comprises (i) animals and (ii) small round things, including all seeds.

bɔ| has only three underived members: sa'abɔ 'millet porridge', ta^pɔ 'war' and ku'ubɔ´ 'soap.' However, it contains many gerunds: gerunds are assigned the class suffixes gɔ rɛ bɔ or mɛ by set rules $\S6.1.1$.

 $m\epsilon$ | nouns refer to liquids/substances or to abstractions (a few with secondary concrete senses.)

5.1.2 Compound-initial forms

CIFs are bound forms of full words §8.1. They often differ tonally from Sg/Pl forms, and have a suffix ϵ when tones are allocated, before apocope §3.3. Older texts may show epenthetic vowels after CIF final plosives, as in nwadibil "wad-bíla 'star.'

Remodelling of CIFs on the form of the Sg is common, particularly when they appear as heads rather than dependents; it never affects the tones. This has become the default for CV-stems and CVm/CVn stems:

zug _o ´	zut´	zug-	'head'
kùkɔr´	kùkɔyá	kùkɔr-	'voice'
ta ⁿ p _o		tà ⁿ p-	'war'
gbaນຸ໗ _ວ ´	gbaná	gbavn-	'animal skin'

Cf however kukɔtita'ar 'great voice' Jn 7:28, gban-zába 'leatherworker.'
Remodelled CIFs are also used to avoid ambiguity, e.g. kɔ̀lugɔ 'sack', CIF kɔ̀lug-(kɔluga 'river', CIF kɔ̀l-); lànnuga 'squirrel', CIF lànnug- (lann 'testicle', CIF làn-.)
Three nouns distinguish Sg from Pl CIFs as heads (e.g. dàp-sumà 'good men'):

```
day dapa dày-, Pl head dàp- 'man'
tayn' tanpa' tayn-, Pl head tanp- 'opposite-sex sib'
yir' ya' yi-, Pl head ya- 'house'
```

The CIF of la'af₂ 'cowry', Pl ligidi 'money' may be là'- or lìg-.

5.1.3 Class set paradigms

CIFs take the suffix ϵ . Class suffix addition may involve processes of consonant assimilation, deletion of g, and insertion, loss, or rounding of vowels §3.2.

a|ba

Stem-final m n assimilate with Pl ba: $mb/nb \rightarrow mm$. Most Sg LFs end in a:

sıd _a	sıdıb _a	sìd-	'husband'
nid _a ′	nidib _a ´	nin- sic	'person'
kvvd _a ′	kυυdίb _a	kυυd-	'killer'
sàal _a	sàalìb _a	sàal-	'human being'
saan _a ´	sáam _{ma}	saan-	'guest, stranger'
yบบm-yบ <mark>ํ</mark> 'บm _{na}	-yû'umnìb _a	-yΰ'υm-	'singer'
puà'-san'am _{ma}	-saʰ'amɪdɪba	-sàn'am-	'adulterer'
pa'an _{na}	pa'annıb _a	pà'an-	'teacher'
gbàn-za ⁿ l _{la} ′	-za ⁿ llíb _a	-za ⁿ l-	'book-carrier' K W
gbàn-tar _a ´	-taríb _a	-tar-	'book-owner' D
zà'-nɔ-gúr _a	-gúrìb _a	-gúr-	'gatekeeper'

Agent nouns from mm-stem 2Vbs like dam 'shake' only have nam_a Pls. Those from 3-mora s-stems drop d in Sg and CIF, as do those from a few other verbs; many have nam_a Pls as well or instead:

kùosa	kuosıdıb _a	kùos-	'seller'
sigis _a ′	sigisídìb _a	sigis-	'lowerer'
dìıs _a	dìıs-nàm _a	dìıs-	'glutton'
sòsa	sɔsɪdɪb _a	sòs-	'beggar'
tìsa	tısıdıb _a	tìs-	'giver' W
kis _a ´/kisid _a ´	kisidíb _a	kisid-	'hater'
zàb-zàb _a	-zabıdıb _a	-zàb-	'warrior'
gban-záb _a	-záb-nàm _a	-záb-	'leatherbeater'
ⁿ wi-ték _a	-tékìdìb _a		'rope-puller'

A few d-stems drop d in Pl or CIF only:

wìıd _a	wìιb _a	wìıd-	'hunter'
sɔn'ɔda´	sɔn'ɔba´	sɔn'ɔd-	'someone better'
pukpaad _a ´	pυkpaadíb _a	pυkpá-	'farmer'

Stems in single m have Sg LF-final me and Pls with se or nama:

zu'om´	zu'omís	zu'om-	'blind person'
kpεε ⁿ m	kpὲεʰm-nàm _a	kpὲεʰm-	'elder'
bi'em	bì'em-nàm _a	bì'em-	'enemy'

For kpεεⁿm and bi'em, W also has the LF-only Pls kpεεⁿmma and bi'emma. CVn-stems show Sg LF final nnε, the SFs having been reinterpreted as Sg rε.

Bìn _n B	Bìm _{ma}	Bìn-	'Moba person'

Cf agent nouns in $r\epsilon|aa$ form 1Vb II/r-stems §6.1.1. Some former CVV-stems have become $r\epsilon|aa$, e.g. $p\grave{v}k\grave{o}^n r$ 'widow'; cognates in related languages retain Pl ba. Seven nouns end in a vowel in the Sg SF:

pua'	pυ'ab _a	puà'-	'woman'
ba'a	ba'ab _a	bà'a-	'diviner'
sae̯n/sae̯n _{ya}	saa ⁿ b _a	sà ⁿ -	'blacksmith'
sɔe̯n/sɔe̯nya	sɔɔʰba	sò ⁿ -	'witch'
daŭ	dap _a	dày-, Pl head dàp-	· 'man'
tayn´	ta ⁿ pa´	taun-, Pl head tanp	- 'opposite-sex sibling'
pitú	pitíb _a	pit-	'junior same-sex sib'

In compounds, $-pit_a$ replaces $pit\acute{o}$: $bì-pit_a$ 'younger child.' Seven nouns have ba in the Sg, with $n\grave{a}m_a$ Pls:

nà'ab _a	nà'-nàm _a	nà'-	'chief'
yáab _a *yaag-	yaa-nám _a	yaa-	'grandparent'
pùgùdìb _a	pùgùd-nàm _a	pùgùd-	'father's sister'
á ⁿ sìb _a	aʰs-nám _a	a ⁿ s-	'mother's brother'
sàam _{ma}	sàam-nàm _a	sàam-	'father'
dìem _{ma}	dìem-nàm _a	dìem-	'parent-in-law of man'
dàyáam _{ma}	dàyaam-nám _a	dàyaam-	' of woman'

ga|sε

dὲεg _a	dèes	dὲ-	'warthog'
ⁿ wadıg _a ´	ⁿ wadıs´	ⁿ wad-	'moon, month'
bù-dìbìg _a	-dìbìs	-dìb-	'male kid'
kɔlıga	kɔlɪs	kòl-	'river'
kpùkpàrìg _a	kpùkpàrìs	kpùkpàr-	'palm tree'
pusig _a ´	pusis'	pus-	'tamarind'

After aa ie uo, g is deleted, with V fusion; Sg iaⁿ uaⁿ correspond to Pl εεⁿs constant significant signific

baa	baas	bà-	'dog'
sia	sies	s <u>i</u> à-	'waist'
sàbùa	sàbùos	sàbuà-	'lover, girlfriend'
nu'-íʰ'a	-ĉ ^{n'} ES	-έ ^{n'} -	'fingernail'
nua´	nɔɔs´	no-	'hen'

After a \dot{a} \dot{a} \dot{a} \dot{a} \dot{a} \dot{a} is deleted and the vowel is glottalised. After short root vowels $gg \rightarrow k$; elsewhere, gg is replaced by η :

gìk _a	gìgìs	gìg-	'dumb person'
zàk _a	zà'as	zà'-	'compound'
bὲrìŋ _a	bὲrìgìs		'kenaf'
yáaŋ _a	yáas *yaagsε	yaaŋ-	'grandchild'

Cf kariŋ Pl karigis 'head louse.' Vúoŋa 'red kapok' has Pl vuomís by analogy: cf vúor *vuogrɛ 'red kapok fruit.'

 $mg/ng \rightarrow \eta$; $ns \rightarrow s$ with nasalisation and lengthening of preceding root vowels. M-stems of more than two morae sometimes behave like n-stems.

bùŋ _a	bùmìs	bùŋ-	'donkey'
sú'oŋ _a	su'omís	su'oŋ-	'hare'
teŋa	tεε ⁿ s	tèŋ-	'land'
níiŋ _a	níis/niimís	niiŋ-	'bird'
kừlìŋ _a	kùlìs/kùlìmìs	kùlìŋ-	'door'
mɛɛdເŋ _a	mεεdιs/mεεdιmιs	mὲεdìŋ-	'building tool'

Some root-stems with rounded root vowels show Sg go for ga:

kuug _a ´/kuug _ɔ ´	kuus′	ku-	'mouse'
sນ່'ນg _a /sນ່'ນg _ວ	sù'ʊs	sù'-	'knife'
nû'ug _ɔ	nû'us	nu'-	'hand'
zùnzòŋ _a /zùnzòŋ _ɔ	zùnzòɔʰs	zùnzòŋ-	'blind person'
yύ'ບŋ _ɔ	yบ'บmís	yս'սŋ-	'night'
zùu ⁿ g _o	zùu ⁿ s/zùu ⁿ d	zù ⁿ -	'vulture'

Some original go|d ϵ m-stems show s ϵ rather than aa in place of Pl d ϵ :

yàmmùg _a	yàmmìs	yàm-	'slave'
or yàmmùg _ɔ			
à dàalúŋ _ɔ	à dàalís/dàalímìs	à dàalúŋ-	'stork'
sí'uŋ _ɔ	si'imís	si'uŋ-	kind of big dish
dìເຣύŋ _ວ	dìısís/dìısímà	dìເsύŋ-	'spoon'

Some human-reference nouns have alternative Pls with ba:

dàsaŋ _a	dàsam _{ma} /dàsaaʰs dàsàŋ-	'young man'
Sà'-dàbùa	-dàbùob _a /-dàbùos	clan name
Yàaŋ _a	Yàam _{ma} /Yàamìs/Yàa ⁿ s	'Yansi person'

Irregular nouns:

biiga	biis	bi-/bì-	'child'
bບtເŋa	butus	bùtìŋ-	'cup'
pε'og _o ´	ρε'εs´	ρε'-	'sheep'
saŋá	sansá	san-	'time'
wເໄເຣບ໌໗ _ວ	wılımís	wເໄເຣບ໌ŋ-	kind of snail
yalເsύŋ _ວ	yalımís	yalısúŋ-	'quail'

gɔ|dε

Before gɔ/kɔ/ŋɔ stem-final vowel morae and epenthetic vowels are rounded:

dàນg _ວ	dàad	dà-	'piece of wood'
fɛn'ogɔ´	fɛn'ɛd´	fε ^{n'} -	'ulcer'
gbὲ'og _ɔ	gbὲˈɛd/gbὲdà	gbὲ'-	'forehead'
dàbiog _o	dàbied	dàbịà-	'coward'
viug _o ´	viid´	vi-	'owl'
mɔɔgɔ	mɔɔd	mò-	'grass, bush'
wabug _o ´	wabıd´	wab-	'elephant'
balɛrʋgɔ´	balɛrɪd´/balɛrɪs´	balér-	'ugly person'
bεsυg _o	bɛsɪd	bès-	kind of pot

Some stems ending in root vowels have Pl CVt:

dòɔg _ɔ	dòɔd/dòt	-ćb	'hut'

So too ppg_2 'farm, field', fuug_2' 'clothing, shirt.' Exceptionally, the Sg has a short vowel too in zug_2 ' 'head', Pl zut', CIF zu-/zug-.

sìlùg_o

 $gg \rightarrow k$ and waks \rightarrow sks; g is deleted after a ja wa:

dvk _o ′	dυgυd´	dυg-	'cooking pot'
lavk _o	la'ad	là'-	'item of goods'
bianuk2	bi̯an'ad/bi̯an'ada	bjàn'-	'shoulder'
lòk _o	lù'ad	luà'-	'quiver (for arrows)'
$dd \rightarrow t$; $Id \rightarrow nn$:			
ùdùg _ɔ	ùt	ùd-	'piece of chaff'
zɔlug _ɔ ´	zon _n ′	zol-	'fool'

sìl-

'hawk'

 $mg/ng \rightarrow \eta$; CVm/CVn-stems use Pl aa instead of ds:

sìn_n/sìlìs

làŋgáʋŋ _ɔ	làŋgáam _n		'crab'
	or làngaamá		
gbàɒ̯ŋɔ	gbànà	gbàyŋ-/gbàn-	'book'
zเทzลงุŋ _ɔ ´	zınzaná	zเทzáงุŋ-	'bat'
àʰrùŋɔ	à⁼rìmà	àʰrùŋ-	'boat'
nìn-gbiŋ _ɔ ´	-gbiná	-gbiŋ-	'body'

The place name Dènòg₂ 'Denugu' does not assimilate ng.

Many gerunds belong to this set; they assimilate mg optionally, ng never: $sa'' u\eta_{3}/sa''amug_{3}$ 'destroying', $karunug_{3}$ 'reading', $diginug_{3}$ 'lying down', $sunuug_{3}$ 'bowing the head.' Any Pls take aa:

bu'	osúg _o	bu'osá	bu'os-	'question'
zàa	າ ⁿ sύŋ _ɔ	zàansímà	zàansúŋ-	'dream'
rε aa				
kug	jur´	kugá	kug-	'stone'
yug	gudır	yuguda	yùgùd-	'hedgehog'
nób	oìr	nobá	nob-	'leg'
bì ⁿ '	isìr	bì ⁿ 'isà	bìn'is-	'woman's breast'
bàl	àŋìr	bàlàŋà	bàlàŋ-	'hat'
saŋ	gύnnìr	saŋgúnnà	saŋgún-	'millipede'
sun	nmır	summa	sùm-	'groundnut'

CV(V)-stems make Pl CVya if the vowel is modal, CVda if glottal, and stems in *ag *ɛg *ɔg may make forms in da by analogy §3.2.1:

gbɛr´	gbεyá	gbɛr-	'thigh'
bier´	bjeyá	b <u>i</u> a-	'elder same-sex sib'
zuor	zu̯oya	zuà-	'hill'
nɔɔr´	nɔyá	no-	'mouth'
ⁿ yε'εr´	ⁿ yεdá	ⁿ yε'-	'next-younger sibling'
yu'or	yuoda	yù'or-	'penis'
pòn'or	pò ⁿ dà	pòn'-	'cripple'
bà'ar	bà'a/bàdà	bà'-	'idol' (Farefare <i>bàgrὲ</i>)
s <u>i</u> à'ar	sjà'a/sjà'adà	sia'-	'forest'
mù'ar	mu̯à'a/mὺ'adà	mua'-	'lake'

Stems with deleted g after a long vowel include fusion-verb gerunds like gbán'ar from gban'e´ 'grab', and vúor 'fruit of red kapok', Pl vuáa.

Stems in m n l r assimilate the r of Sg r ϵ , as do stems in ll (but not mm nn):

dum _n	duma	dùm-	'knee'
yùum _n	yùmà	yùum-	'year' §3.2.1
kpan _n	kpana	kpàn-	'spear'
gél _l	gεlá	gɛl-	'egg'
kùkpàr	kùkpàrà	kùkpàr-	'palm fruit'
bù-za ⁿ lı´	-za ⁿ llá	-za ⁿ l-	'goat-carrier' W

Irregular nouns:

daar	daba	dà-	'day'
[Mampruli <i>zari</i>]	za´	za-	'millet'
yir′	ya´	yi-, Pl head ya-	'house'
Mor´	Mɔ́ɔm _{ma}	Mor-	'Muslim'

Language names use the suffix $|\epsilon|$. Forms are identical to those with Sg $r\epsilon$, except for stems in final vowels and in r (where $rl \rightarrow t$):

Kusâal	'Kusaal'	Kusâas	'Kusaasi'
Bat'	'Bisa language'	Barıs'	'Bisa people'

fo|ii

Before Pl ii unrounded stem vowels become i/ii. Several nouns show CVC/CVVC root alternations §3.2.1.

kief _o ´	ki′	ki-/ka-	'millet'
[Mooré muiifu]	mù <u>i</u>	mù <u>i</u> -	'rice'
náaf _o	niigí	na'-	'cow' §3.2.2 Set 1
wáaf _ɔ	wiigí	wa'-	'snake'
bielíf _o	biilí	biel-/biil-	'seed'
mòlìf _o	mòlì	-lćm	'kob'
ⁿ yiríf _o	⁻yirí	ⁿ yir-	'egusi'
$df/nf \rightarrow f$:			
wìef _o	wìdì	wìd-	'horse'
la'af _o	ligidi	là'-/lìg-	'cowrie' Pl 'money'
nif _o ´	niní	nin-/nif-	'eye'
píıf _o	piiní	pun-	'genet'

Piini 'gift' is used as a Sg, with CIF piin-.

Some words have folii suffixes in only one number:

	zíiŋa	zimí	zim-	'fish'
	walıg _a	walıs/walí sic	wàl-	'oribi'
	sibig _a ´	sibí	sib-	kind of termite
	sii ⁿ f _o ´/sii ⁿ ga´	sii ⁿ s´	si ⁿ -	'bee'
	su ⁿ f _o ´/suu ⁿ r´	su ⁿ yá	su ⁿ -	'heart'
	kpáʰ'ບŋ _ɔ	kpi ⁿ 'iní	kpa ⁿ '- <i>sic</i>	'guineafowl'
bo				
	sa'ab _o		sà'-	'millet porridge'
	kı'ıb _o ´			'soap'
	ta ⁿ p _o		tà ⁿ p-	'war'

All regular 2-mora-stem 2Vb gerunds belong here $\S6.1.1$; bb \rightarrow p, mb \rightarrow mm, but nb does not assimilate: sp_{2} 'writing', wvm_{m2} 'hearing', $bunib_{2}$ 'reaping.'

The only 3-mora stem is $yiisib_{2}$, the gerund of yiis 'make emerge.'

mε

daam´	da-	'millet beer'
mὲlìgìm		'dew'
du'uním	du'un-	'urine'
dàalìm		'masculinity'
yàarìm	yàar-	'salt'
zaa ⁿ sím	zaa ⁿ s-	'soup'

CV-stems like vom´ CIF vom- 'life' are indistinguishable from m-stems. Otherwise, m-stems are identifiable from their flexion or their 4-mora-stem tones:

puum´		puum-	'flowers'
dàalím	dàalímìs	dàalím-	'male sex organs'
piim′	pimá	pim-	'arrow' §3.2.1

5.2 Adjectives

Historically, adjectives took the class suffix of the head noun, which preceded as a CIF. Though agreement is now lost, many adjectives still show suffixes from different class sets, with no difference of meaning: 'white shirt' may be fu-píeliga or fu-pîel_I. For W, gradable adjectives with Sg ga rɛ gɔ successively imply less intensity, so that pìelìga is "whiter" than pìel_I, but D specifically denied any difference.

fɔ|ii and bɔ| never appear with adjectives; all cases of a|ba and mε| are relics of agreement §8.7.2. Other suffixes are avoided when unclear or ambiguous SFs would result, often leading to adjectives which belong to just one class set.

Only two underived adjectives show both ga|se and go|de suffixes:

zìn'a/zɛ̀n'ogɔ	zèn'ɛs/zèn'ɛd	zjàn'-/zɛ̀n'-	'red'
	or zè ⁿ dà		
bi'a/bε'og _ɔ	bi'es/bε'εd	bjà'-/bè'-	'bad'
or bɛˈɛd	or bèˈɛd-nàma		

Other multi-set adjectives take $r\epsilon|aa$ and either $ga|s\epsilon$ or $gb|d\epsilon$ but not both. Ga-type adjectives include:

wàbìg _a /wàbìr	wàbìs/wàbà	wàb-	'lame'
vènnìg _a /vènnìr	vènnìs/vènnà	vèn-	'beautiful'
sabılíg _a /sabíl _l	sabılís/sabılá	sabıl-	'black'

Like sabılíga are paalíga 'new', bàa''lìga 'slim', pìelìga 'white.' $V \epsilon'' ll l l ga$ 'beautiful' does not use Sg r ϵ ; 'w ϵ nnır 'resembling', záalı 'empty' do not use ga.

Stems in m n do not use re; stems in s d do not use se; sm-stems do not use aa:

dεεŋ _a	dεεʰs/dεεmιs	dὲεŋ-	'first'
or	dεεna		
giŋa	gima	gìŋ-	'short'
bugusíg _a /bugusír	bugusá	bugus-	'soft'
pòɔdìga/pòɔdìr	pòodà	-bcćq	'few, small'
ⁿ yὲεsίŋ _a	nyὲεnsίs	ⁿ yὲεsίŋ-	'bold'

Like bugusír are ma'asír 'cool', malısír 'sweet', tɛbısír 'heavy', labısír 'wide'; like "yɛ̀ɛsíŋa are vɛ̀"llíŋa 'beautiful', malısíŋa 'pleasant', lallíŋa 'distant.'

Zὺŋɔ Pl zὺυⁿs/zὺnà 'foreign' has Sg gɔ for ga due to its rounded root vowel. Pl sɛ is often preferred to aa for human reference, e.g. nin-sábìlìs 'Africans.'

Go-type adjectives include:

nὲog _ɔ /nὲεr	nὲεd/nὲyà	nὲ-	'empty'
wìug _ɔ /wìir	wìid/wìyà	wì-	'red'
wɔkɔ´/wa'ar´	wa'ad´/wá'a	wa'-/wɔk-	'long, tall'
kบdบg _ว /kบdเr	kυt/kυda	kùd-	'old'
bὲdùg _ɔ /bὲdìr	bὲdà	bὲd-	'great'
tıta'vg _ɔ /tıta'ar	tıtada	tıtá'-	'big'

Vυr´ 'alive' Pl vuyá CIF vur- has Pl vut´ in predicative uses. The clan name Zuà-wìis 'Red Zoose' shows an exceptional Pl sε.

Stems in l m n r s do not use r e or d e:

sùŋ _ɔ	sùmà	sùŋ-	'good'
yເນຼŋ _ວ ´	yıná		'single (of pair)'
kísùg _ɔ	kisá	kis-	'hateful'
wàບຼ໗ _ວ	wànà	wàֻuŋ-	'wasted, thin'
kpi'oŋ _ɔ	kpi'ema	kpì'oŋ-	'hard, strong'
zùlùŋ _ɔ	zùlìmà	zùlùŋ-	'deep'

So too pɔ̀¬rògɔ 'near', mì'isògɔ 'sour', zɛmmógɔ 'equal', tυυlógɔ 'hot', lallógɔ 'far', yàlòŋɔ 'wide', ¬yalóŋɔ 'wonderful', naróŋɔ 'necessary', zu-pɛ́εlògɔ 'bald' and all Pf verbal adjectives in lm, which also have variant forms without m for K (not W):

kpìilúŋ _ɔ /kpìilùg _ɔ	kpìilímà	kpìilúŋ-	'dead'
gɛɛʰlúŋɔ/ɡɛɛʰlúgɔ	gεε ⁿ límà	gεε ⁿ lύŋ-	'tired'
pὲ'εlύŋ _ɔ	pè'ɛlà/pè'ɛlímà	ρὲ'εΙύŋ-	'full'

Ipf verbal adjectives are ga-type for W, go-type for K; Pl is always aa. Stems in g k η II mm r are simply re|aa.

	kvvdír	kυυdá	kυυd-	'murderous;
or	kບບdíg _a /kບບdúg _ວ			liable to be killed'
	sinnír/sinníg _a	sinná	sin-	'silent'
	bun-túlìgìr	-túlìgà		'heating thing'
	ⁿ wi-tékìr	-tékà	-ték-	'pulling-rope'
	bun-súŋìr	-súŋà		'helpful thing'
	tummır	tumma/tumna	tòm-	'working, helpful'
	kὺg-dεl _l ´	-dɛllá		'chair for leaning on'

Ipf adjectives from 4-mora m-stems take Sg ga or gɔ (never rɛ), Pl aa; they may drop m in the Pl: nin-pú'alìŋa Pl nin-pú'alìmà 'harmful person'; nin-záansùŋɔ Pl nin-záansà 'dreamy person.'

Regardless of the stem form, some adjectives just belong to single class sets:

puak _a	pv'as	puà'-	'female' (human)
"yá'aŋ _a	ⁿ yá'as/nya'amís	ⁿ ya'aŋ-	'female' (animal)
davg _o tɔɔg _o lam-fɔ̂ɔg _o màv̯k _o	daad tɔɔd lam-fɔ̂ɔd mà'ad	dà- tò-	'male' 'bitter' 'toothless' 'crumpled'
bíel _l	bielá	yım-	'naked'
yımmír	yımmá		'unique, sole'

An old diminutive Sg class suffix la appears in

bila	bibis	bì-/bìl-	'little'

The Pl stem is reduplicated. This la suffix is still found in Farefare and Mooré nouns, e.g. Farefare pììla 'lamb', budibla 'boy', pugla 'girl', kiila 'young guinea fowl.'

5.3 Verbs

5.3.1 Two-aspect

Two-aspect verbs (2Vbs) are the great majority. Their flexions are Pf ϵ , Ipf da, and ma for imperative with NSb tone overlay §9.5; forms will be cited in that order. Straightforward examples are

kυ	kυυd _a ′	kὺυm _a	'kill'
kpὲn'	kpèn'ed _a	kpὲ ⁿ 'εm _a	'enter'
kjà' LF kì'a	kì'ed _a	kì'em _a	'cut'
kua LF kua	kuod _a ´	kùoma	'hoe'
gòn	gɔ̀ɔʰda	gɔ̀ɔʰma	'hunt'
dυg	dvgvd _a ´	dùgùm _a	'cook'
yùug	yùugìd _a	yùugìm _a	'delay, get late'
yadıg´	yadıgíd _a	yàdìgìm _a	'scatter'
p <u>i</u> an'	pi̯aʰ'ada´	pi̯àn'am _a	'speak; praise'
duà'	dὺ'ad _a	dὺ'am _a	'bear, beget'
nok′	nokíd _a	nòkìm _a	'take'
gaŋ´	gaŋíd _a	gàŋìm _a	'choose'
kpàr	kpàrìd _a	kpàrìm _a	'lock'
sugur´	suguríd _a	sùgùrìm _a	'forgive'
bàs	bàsìd _a	bàsìm _a	'go/send away'
sigis´	sigisíd _a	sìgìsìm _a	'lower'
kɔt'	kɔtíd _a	kòtìm _a	'slaughter'

Some CVV-stems have the Ipf CVt_a §3.2.1:

dì	dìta	dìm _a	'eat'
ⁿ yε	ⁿ yεt _a ´	⁵yὲm _a	'see'

Likewise "y ϵ 'see', lì/lù 'fall', do 'go up', yi 'go/come out', zò 'run.' dd \rightarrow t; ld \rightarrow nn:

bùd	bùt _a	bùdìm _a	'plant'
gàad	gàt _a sic	gàadìm _a	'pass'
vυl	vun _{na} ´	vùlìm _a	'swallow'
dıgıl´	dıgín _{na}	dìgìlìm _a	'lay down'

B3 has some variant Ipfs like satid from sad 'slip.' The new Pf kɔt´ 'slaughter' (see above) has been extracted from the Ipf kɔtída.

 $bm \rightarrow mm$ with 2-mora stems only:

lèb	lὲbìd _a	lèm _{ma}	'return'
dcs	sɔbɪda´	sòm _{ma}	'write'
lìeb	lìebìd _a	lìebìm _a	'become'
εε ⁿ b´	εε ⁿ bίd _a	ὲεʰbìma	'lay a foundation'

 $nd \rightarrow nn$ with 2-mora stems only:

bùn	bùn _{na}	bùnìm _a	'reap'
mon	mɔn _{na} ´	mònìm _a	'make porridge'
gò'ɔn	gò'ɔnìda	gò'ɔnìm _a	'extend neck'
dìgìn	dìgìnìd _a	dìgìnìm _a	'lie down'
sùn _n	sùnnìd _a	sùnnìm _a	'bow head'

All m-stems show assimilation in the NSb-imperative.

md → mm is compulsory with 2- and 4-mora stems, but optional with 3-mora stems, apart from mm-stems, in which it does not occur:

tùm	tùm _{ma}	tùm _{ma}	'work'
lèm	lèmmìd _a	lèm _{ma}	'sip, taste'
kàrìm	kàrìm _{ma} /kàrìmìd _a	kàrìm _{ma}	'read'
tɔɔm´	tóɔm _{ma} /tɔɔmída	tòom _{ma}	'depart'
sìilìm	sìilìm _{ma}	sìilìm _{ma}	'cite proverbs'
laŋím	laŋím _{ma}	làŋìm _{ma}	'wander in searching'

Like tòm are wòm 'hear', kìm 'herd animals', dùm 'bite'; like lèm are tàm 'forget', zàm 'cheat', dàm 'shake'; cf Mooré lèmbe 'taste', zambe 'cheat', rambe 'stir.'

W and D use optionally unassimilated Ipfs only to avoid ambiguity with Pfs, i.e. with SFs not followed by ne' §11.1; B3 has a few unassimilated Ipfs even from 2-mora stems in contexts where the assimilated forms would be taken as Pfs:

M pυ kárìmma . 'I'm not reading.' M kárìm nε. 'I'm reading.' Kà bà kárìmìd. 'And they were reading.'

Kà bà kárìm. 'And they read.' (necessarily Pf)

Tuumbe'ed dim san'an ka be'ed tumid.

Tùym-be'ed dím sân'an kà be'ed týmìd.

work.Gd-bad.Pl ØP by and badness work.Ipf

'It is from evildoers that evil is carried out.' 1 Sm 24:13

Fusion verbs delete g after aa ie uo §3.2.2, with tonal effects in gerunds §3.3.

fae ⁿ ′	faa ⁿ da´	fàa ⁿ ma	'save'
di'e´	di'ed _a ´	dì'em _a	'get, receive'
nìe	nìed _a	nìem _a	'appear'
sue ⁿ ′	suo ⁿ da´	sùo ⁿ ma	'anoint'

In the Ipf tones there is no trace of a lost g mora, and before liaison enclitics the Pf forms similarly behave simply like CVV-stems §4.4. However, Ipfs like $nied_a$ 'appear' (not * $nied_a$), with the same vowel as in the gerund nier, show that g was formerly present in these forms too, and verbs with other long vowels preceding g do not lose it in flexion. In most cases, at least, the tones of fusion verbs therefore reflect simplification by analogy following phonological deletion, rather than morphological dropping of g in flexion (but see below.)

Irregular 2Vbs are few.

Some 2Vbs drop monactional g in the Ipf:

wìk	wìid _a	wìkìm _a	'fetch water' §3.2.1
<u>i</u> a ⁿ k′	i̯aʰ'ada´	jà ⁿ kìm _a	'leap, fly'
gilig´	gin _{na} ´	gìlìgìm _a	'go around'
keŋ´	ken _{na} ′	kèm _a sic	'go'

Even when stems with monactional g and without it appear in both aspects, it is common for forms with the g to be favoured in Pf and Imp, and those without it in Ipf: thus B3 has 28 instances of Pf $v\epsilon'\epsilon g'$ to only 6 of $v\epsilon'$ 'lead, pull' and 2 instances of Imp $v\epsilon'\epsilon g m_a$ to none of $v\epsilon'\epsilon m_a$, but only 2 of Ipf $v\epsilon'\epsilon g d_a$ to 9 of $v\epsilon'\epsilon d_a$.

Other derivational suffixes are dropped in the Ipf in three verbs:

yὲl	yèt _a	yὲlìm _a	'say'
gos	gɔsɪda´/gɔta´	gòsìm _a /gòm _a	'look'
tìs	tìsìd _a /tìt _a	tìsìm _a	'give'

Tìs may adopt the form tì before liaison enclitic pronouns, e.g. tì_f 'give you.'

Κε' 'come' has identical Ipf and NSb-Imp to keŋ´ 'go', but is always followed by
na´ 'hither' §9.6: Kèm na! 'Come here!', Kèm sá! 'Go away!'

Only one 2Vb has an irregular flexional suffix: an exceptional NSb-imperative suffix appears in

kε kεt_a´ kèl_a 'let, allow'

5.3.2 One-aspect

One-aspect verbs (1Vbs) number about sixty; their sole finite form is Ipf. They are of several distinct types, but mostly express relationships, stances or bodily activities, or have predicative adjectival meanings.

Some 1Vbs resemble 2Vb Pfs or Ipfs in form.

Five have the flexion ϵ : mi' 'know', zı' 'not know', bè 'exist', kae' 'not be', nòŋ 'love.' NSb-Pf ya never follows: M nóŋ 'I love [her]' (in reply to a question) W. Tone sandhi is that of Ipfs, not Pfs §4.2: kà ò bé Bók 'and he's in Bawku (Bòkɔ).' Nòŋ is the only 1Vb with a NSb-Imp: nòŋìma. The agent noun nòŋìda 'lover' is TP L, deviating from the rule for 2Vbs §3.3.1: Mooré noanga 'lover' shows that here Kusaal has introduced d by analogy. The verbs kae' and zı' have the optional alternative LFs kà'asìgɛ and zı'ısígɛ.

Some 1Vbs resembling 2Vb Ipfs actually originated as 2Vbs where only the Ipf is in use, or where the Ipf has acquired a distinct meaning, as with bɔɔda 'want', beside Pf bɔ̀ 'seek.' Other 1Vbs resembling 2Vb Ipfs are nanna´ 'respect', nɛnna´ 'envy', sinna´ 'be silent' (nd \rightarrow nn) and the imperative-only mìta 'do not let' \$9.3.1 (CVVd \rightarrow CVt \$3.2.1; cf Mampruli mira.) However, 1Vbs ending in LF da or nna do not, in general, behave like 2Vb Ipfs in derivation: thus 'wɛnna´ 'be like' and pɔ̀ɔda 'be few' correspond to 'wɛnnɪr 'resembling' and pɔ̀ɔdùga 'few' by the tone rules for derivation of quality verbs from adjectives \$6.2.2, not adjectives from 2Vbs \$3.3.1.

Most 1Vbs have finite forms ending in LF a, but are not formed with da. A characteristic subgroup are the **stance verbs**, which have underlying final ya. Those with stems ending in vowels or b g show the flexion ya, before which back vowels diphthongise §3.2.2, while $|y \rightarrow I|$ and $ry \rightarrow r$:

dɛl _{la} ´	'be leaning (person)'	dıgı _{ya} ´	'be lying down'
gɔ'e _{ya} ´ W	'be looking up'	gɔl _{la} ′ K	'be looking up'
gɔra´ D	'be looking up'	gùl _{la}	'be hanging'
igi _{ya} ´	'be kneeling'	làbì _{ya}	'be crouched hiding'
sεbι _{ya} ´	'be squatting'	sùr _a	'have the head bowed'
tàbì _{ya}	'be stuck to'	ti'i _{ya} ´	'be leaning (thing)'
vabı _{ya} ´	'be lying prone'	zì'e _{ya}	'be standing'
zì ⁿ 'i _{ya}	'be sitting'		

Stance verbs form a distinctive group derivationally, with derived inceptives in n and causatives in I (or in a few cases, a corresponding root-stem 2Vb) §6.2.1; they also characteristically have agent nouns in d based on their roots §6.1.1.

In addition, some speakers can inflect stance verbs for the "propensity" Ipf sense by substituting the suffix da for ya; in such cases, other speakers use the Ipf forms of the derived inceptive 2Vbs in n $\S6.2.1$. The formation is possible only with stance verbs where y has not been assimilated or lost in the LF, e.g.

```
Ò dìgì nε.
                                            'She's lying down.'
Ò pu dıgıdá_.
                                            'She doesn't lie down' W
Ò zì<sup>n</sup>'i nε.
                                            'She's sitting down.' (zìn'iya)
Ò pυ zín'ida .
                                            'She doesn't sit down' W
Ò pυ zín'inìda .
                                            'She doesn't sit down' K
Ò vàbì nε.
                                            'He's lying prone.' (vabıva´)
Ò pυ vabıdá.
                                            'He doesn't lie prone.' W
Ò pυ vábìnìda .
                                            'He doesn't lie prone.' K
Lì zì'e nε.
                                            'It's standing up.' (zì'e<sub>va</sub>)
Lì pu zí'eda .
                                            'It (defective tripod) won't stand up.' W
Lì tì'i nε.
                                            'It's leaning.' (ti'i<sub>ya</sub>')
Lì tì'id.
                                            'It can be leant.' W
Lì po ti'iyá.
                                            'It's not leaning.'
Lì po ti'idá_.
                                            'It's not for leaning.' W
```

Although they do not have "stance" meanings, a number of other 1Vbs have a similar structure to stance verbs and, like them, can also form agent nouns:

dɔl _{la} ′	'go/come with'	gur _a ´	'guard, watch for'
kis _a ′	'hate'	mɔra´	'have'
nèi̯ _{ya}	'be awake'	sɔʰ'e _{ya} ´	'be better than'
sυ'e _{ya} ´	'own'	tar _a ′	'have'
tè ⁿ ra	'remember'	wà'e _{ya}	'travel'
za ⁿ l _{la} ′	'have in the hand'		

Tuⁿ'e_{ya}´ 'be able' has no agent noun. The LF does not occur in my data, but Toende Kusaal has the LF of tõ'e 'be able' in ka bu tõ'oyãa 'but was not able' Lk 19:3.

The copula verb $\grave{a} \grave{e}^n_{ya}$ 'be something/somehow' can be used in direct commands §9.3 and can form the agent noun aa^nd_a 'one who is a ...' W. Thus, the stance-verb group overlaps with the subgroup of **relational verbs**, which includes all 1Vbs which take an obligatory complement §9.7.1; others are $z\epsilon m_{ma}$ 'be equal to' and nar_a 'need, deserve.' The relational group in turn overlaps with the group of quality verbs (see below), as with

```
kpεε<sup>n</sup>m<sub>a</sub> 'be older than' lal_{la} 'be distant' p>nr<sub>a</sub> 'be near' tua'e_{va} 'be near to'
```

This is consistent with the fact that almost any verb can take an an indirect object expressing benefit or interest §9.7.1.

Quality verbs express predicative adjectival meanings; they do not form agent nouns and most have clear derivational relationships with adjectives §6.2.2. Most often, the 1Vb stem is identical to that of the corresponding adjective, but there are some exceptions; in addition | m n are geminated after short root vowels.

Quality verbs include

bà ⁿ l _{la}	'be thin'	bugus _a ´	'be soft'
dùr _a	'be many'	gim _{ma} ´	'be short'
kàr _a	'be few'	kpi'em _a ´	'be strong, hard'
labıs _a ´	'be wide'	ma'as _a ´	'be cool, wet'
malıs _a ´	'be sweet, pleasant'	mì'is _a	'be sour'
pòɔd _a	'be few'	sùm _{ma}	'be good'
tɛbɪsa´	'be heavy'	tɔe̯ _{ya} ´	'be bitter, difficult'
tul _{la} ′	'be hot'	vè ⁿ l _{la}	'be beautiful'
νυę _{ya} ´	'be alive, live'	wa'am _a ´	'be long, tall'
yàlìm _a	'be wide'	ⁿ yὲεs _a	'be bold'
zùlìma	'be deep'		

There are no adjectives corresponding to dùr_a 'be many' or kàr_a 'be few.'

Comparative evidence suggests that the y of tɔe̯_{ya}´ 'be bitter' and vve̯_{ya}´
'be alive, live' is of a different origin from the y seen in stance and relational verbs; it is perhaps comparable to the y which appears before the Pl suffix aa after root-final modal vowels, as with nɔɔr´ 'mouth', Pl nɔyá §3.2.1.

6 Derivation

Derivation may be by stem conversion or by the addition of a derivational suffix b d g l m n or s. Stems of nominals may show a further d m or l m; of verbs, only m. For tone patterns in derivation see §3.3.1.

6.1 Nominals

The associations of class sets with meaning can be exploited by using stems in different class sets, e.g. sii^nf_0 'bee', sii^nd 'honey'; $w\hat{\epsilon}\epsilon d_a$ 'hunter', $w\hat{\epsilon}og_0$ 'deep bush.' Most tree names are $ga|s\epsilon$, their fruits $r\epsilon|aa$ or $go|d\epsilon$:

Tree Sg	Tree Pl	Fruit Sg	Fruit Pl	
aa ⁿ dıg _a	aandıs	aandır	aa ⁿ da	'Vitex doniana'
dùa ⁿ	dòɔns	dɔ̀ɔʰgɔ	b ⁿ cćb	'dawadawa'
gaan´	gaa ⁿ s´	ga ⁿ r′	ga ⁿ yá	'African ebony'
gùŋ _a	gùmìs	gùm _n	gùmà	'true kapok'
kìkàŋ _a	kìkàmìs	kìkàm _n	kìkàmà	'Cape fig tree'
kpùkpàrìg _a	kpùkpàrìs	kpùkpàr	kpùkpàrà	'Palmyra palm'
pusig _a ´	pusis′	pusir′	pusá	'tamarind'
sisíbìg _a	sisíbìs	sisíbìr	sisíbà	'neem'
tá'aŋ _a	ta'amís	tá'am _n	ta'amá	'shea'
tὲ'εg _a	tὲ'εs	tὲ'og _ɔ	tὲ'εd	'baobab'
vúoŋ _a	vuomís	vúor	vuáa	'red kapok'

Similarly, ethnic group names, their languages and the places they inhabit share stems §8.3.

Adjectives form abstract nouns in mɛ| or (especially gɔ-type adjectives) Sg gɔ:

vum´	'life'	sùm	'goodness'
pòɔdìm	'scarcity'	vènnìm	'beauty'
vè¹llìm	'beauty'	bugusím	'softness'
tεbιsίm	'weight'	ma'asím	'coolness, damp'
malısím	'sweetness'	labısím	'width'
pìelìm	'brightness'	tıta'am	'multitude'
nyὲεsὶm	'confidence'		
lallúg _o	'distance'	zεmmύg _ɔ	'equality'
kpi'oŋ _ɔ	'hardness'	yàlùŋ _ɔ	'width'
mì'isùg _ɔ	'sourness'	tɔɔg _ɔ	'bitterness'
zùlùŋ _ɔ	'depth'	tບບlóg _ວ	'heat'

Some human-reference nouns form similar abstracts:

gbá ⁿ yà'am	'laziness'	from	gbá ⁿ yà'a	'idle person'
dàmà'am	'deception'		dàmà'a	'liar'
tıta'alım	'pride'		tıta'al _l	'proud person'
sáບŋ _ວ	'hospitality'		saan _a ´	'guest'
kpεo ⁿ ŋ _ɔ	'eldership'		kpεε ⁿ m	'elder'
sɔɔʰgɔ	'witchcraft'		sɔe̯ ⁿ ya	'witch'

Adjective stems form manner nouns with -me or apocope-blocked -ga:

baa ⁿ lím	'quietly'	zaalím	'in vain'
kudım	'of old'	paalím	'recently'
nèεm	'for nothing, free'		
sùŋa´	'well'	m'asíga´	'coolly'
tυυlίga´	'hotly'	giŋa	'shortly'
bugusíga´	'softly'	sàalíŋa´	'smoothly'
ⁿ yὲεsίηa´	'confidently'		

Nominals may be derived from nominals with derivational d m s I or Im; many stems in d or m are unanalysable, however (e.g. $yugudir 'hedgehog', gbigim_n 'lion.')$

d can derive abstract from human-reference nouns, e.g. dataadug 'enmity', pu'asatim 'girlhood', bunkuttim 'old age', pukontim 'widowhood.'

m is identifiable as derivational in bi'em 'enemy' (bi'a 'bad'), ansíŋa 'sister's child' (ánsìba 'mother's brother'), bìn'isím 'milk' (bìn'isìr 'breast'), na'am 'chieftaincy' (nà'aba 'chief'), zɔlımís 'foolishness' (zɔlugɔ´ 'fool.') It is often added to existing adjective stems, e.g. malısíga/malısíŋa 'sweet', narúŋɔ 'needful' (nara´ 'be needed'), wa'ama´ 'be long' (wɔkɔ´ 'long.')

s derives adjectives from some roots underlying state-change 2Vbs in g §6.2.1.

l and lm derive abstract nouns (but not adjectives) from nouns and adjectives, e.g. bìilím 'childhood' (biiga 'child'), pò'alìm 'womanhood' (pua' 'woman'), dàalìm 'manhood' (dau 'man'), sáannìm 'strangerhood' (saana´ 'stranger'), tırâannìm 'peerhood' (tırâana 'peer'), wa'alím 'tallness' (wɔkɔ´ 'tall.')

6.1.1 Deverbal nominals

Deverbal nominal formation is very productive and largely regular.

Gerunds express the process, event or state described by the verb; almost all verbs can form them. 2Vbs do so by adding a noun class suffix to the verb stem: 2-mora stems add bb, 3-mora stems in g k η ae ie ue (i.e. in *g) add r ϵ , all others gb:

```
kuub<sub>2</sub>′
                  'kill (ku)'
                                                       dugub<sub>2</sub>
                                                                          'cook (dvg)'
dυ'ab<sub>2</sub>
                  'bear, beget (duà')'
                                                       kadιb<sub>⊃</sub>
                                                                          'drive off (kad)'
                  'cover (pìl)'
pilib<sub>2</sub>
                                                       kparıb<sub>o</sub>
                                                                          'lock (kpar)'
basıb<sub>2</sub>
                  'go/send away (bàs)'
                                                       lop<sub>o</sub>′
                                                                          'throw stones at (Ibb)'
kım<sub>mɔ</sub>
                  'herd animals (kìm)'
                                                       bunib<sub>2</sub>
                                                                          'reap (bùn)'
yùugìr
                  'delay (yùug)'
                                                       nokír
                                                                         'take (nok')'
nìnìr
                  'do (nìŋ)'
                                                       gbán'ar
                                                                          'grab (gban'e')'
                  'get (di'e´)'
dí'er
                                                       dúor
                                                                         'rise (due')'
                  'pass (gàad)'
                                                                         'become (lieb)'
gàadùg<sub>2</sub>
                                                       lìebùg<sub>2</sub>
                  'lay down (digil')'
                                                                         'scatter (yaar')'
dıgılúg<sub>2</sub>
                                                       yaarúg<sub>a</sub>
                  'lower (sigis')'
                                                       dàmmùg<sub>2</sub>
                                                                          'shake (dam)' (mm-stem)
sigisúg<sub>2</sub>
dìgìnùg<sub>2</sub>
                  'lie down (dìgìn)'
                                                       zì<sup>n</sup>'inùg<sub>2</sub>
                                                                          'sit down (zìn'in)'
                  'depart (toom')'
                                                       kàrùŋ<sub>ɔ</sub>
                                                                          'read (kàrìm)'
tóoŋo
```

4-mora stems in sm lm use Sg go, but stems in gm km nm drop m and use re:

```
sìilúη<sub>2</sub> 'cite proverbs (sìilìm)' zàansúη<sub>2</sub> 'dream (zàansìm)' wàŋìr 'waste away (wàŋìm)' zàkìr 'itch (zàkìm)'
```

In compounds, 2-mora stems use Sg rε, e.g. puà'-dur 'marriage', nin-kôυr 'murder', da-nûur 'beer-drinking', mò-pil_l 'grass roof.'

Few 3- or 4-mora-stems form gerunds irregularly, but over 20% of 2-mora stems use Sg ga gɔ or rɛ, e.g liiga 'fall (lì)', tènbògɔ'tremble (tènb)', ɔnbur 'chew (ɔnb)'; a few are also tonally irregular, e.g. tànsògɔ 'shout (tàns)', sɔnsòga 'converse (sɔns.)' A few 2Vb gerunds are formally plural, e.g. titumus 'send (tòm)', bɛn'ɛs 'fall ill (bèn')', kenn´ 'come (kɛn)', ziid´ 'carry on the head (zi).' Irregular gerunds are noted in §14. Stance verbs §5.3.2 in ya form gerunds with various class suffixes:

Zi'eg_a is phonologically aberrant §3.2.2. Tèⁿr_a 'remember', pòⁿr_a 'be near' have $t\epsilon^n$ rıb₂ pɔⁿrıb₃; kis_a´ 'hate' forms kísùg₂.

Other 1Vbs suffix Im (m after II nn r) to form m-stem gerunds in mɛ|:

àa¤lím	'be (àe̞ʰya)'	bὲlím	'exist (bɛ̀)'
ka'alím	'not be (kae')'	nòŋìlím	'love (nòŋ)'
mi'ilím	'know (mi')'	รบ'บlím	'own (sv'e _{ya} ´)'
zı'ılím	'not know (zl')'	dɛllím	'lean $(d\epsilon l_{la}')$ '; also $d\epsilon ll\acute{u}g_{0}$
dɔllím	'go with (dɔl _{la} ´)'	tullím	'be hot (tul _{la} ´)'
nεnním	'envy (nɛn _{na} ')'	sinním	'be silent (sin _{na} ')'
ⁿ wεnnίm <i>sic</i>	'be like ("wɛn _{na} ")'	za¤llím	'hold in hand (za ⁿ l _{la} ´)'
gurím	'guard (gur _a ´)'	mɔrím	'have (mɔra´)'
tarím	'have (tara´)'	narím	'be necessary (nar _a ´)'

-taa 'companion in ...' follows a m-stem gerund CIF.

2Vbs here add m to the Ipf verbal adjective stem, but with gerund tones:

dì	'eat'	dìtím-taa	'messmate'
kpὲn'	'enter'	kpὲʰ'εdím-	'co-resident'
zàb	'fight'	zàbìdím-	'opponent'
tùm	'work'	tòmmím-	'co-worker'
pù'υs	'worship'	pὺ'ʊsím-	'co-worshipper'
siak	'agree'	sjàkím-	'partner in agreement'

Similarly mɛɛdím- (mɛ 'build'), pvvdím- (pv 'share'), faandím- (fan 'rob'), dvgvdím- (dvg 'cook'), diusím- (dius 'feed.') Svŋ 'help' forms both svŋím- and svŋidím-.

1Vbs with m-stem gerunds use them here:

bὲ	'exist'	bὲlím-taa	'partner in existence' W
mi'	'know'	mi'ilím-	'partner in knowledge'

Similarly zı'ılím-taa 'partner in ignorance', dɔllím-taa 'fellow-companion.' For stance verbs, W has forms in both -lm- and -dm-: thus both zì'elím-taa and zì'edím-taa 'fellow-stander' from zì'eya; similarly zìn'ilím-/zìn'idím- (zìn'iya 'sit'), vabılím-/vabıdím- (vabıya´ 'lie prone'), igilím-/igidím- (igiya´ 'kneel'), though only làbìlím- (làbìya 'crouch in hiding.') For dıgıya´ 'lie down', W has dıgılím- and also dìgìním-, presumably from dìgìn. With nòŋ 'love', W contrasts nòŋìlím-taa 'fellow-liker' with nòŋìdím-taa 'fellow-lover.'

Some abstract nouns are formed from 2Vb Ipfs; s-stems drop d. These are not m-stems, and if TP L, they have no stem-final H. Most belong to $m\epsilon$ |. They include bɔɔdlm 'will', gɔɔndlm 'wandering', zɔtlm 'fear', yɔlıslm 'freedom', nin-kuuslm 'murder', pu'uslm 'worship', wummugɔ 'hearing.'

Gerunds are abstract; depending on verb meaning, they can be mass or count, cf zɔɔgɔ Pl zɔɔs 'run, race' (zɔ̀ 'run'), bu'osógɔ Pl bu'osá 'question' (bu'os´ 'ask.') Where a noun and 2Vb share stems, the 2Vb is primary; nouns which are not gerunds refer to products, instruments, or sites of action: sɔbur´ 'piece of writing' (sɔb 'write'), dvkɔ´ 'pot' (dvg 'cook'), swaka´ 'hiding place' (swa' 'hide.') Usually such nouns do not take regular gerund class suffixes; exceptions are dubɔ 'food' (dì 'eat'), zin'iga 'place' (zìn'iya 'sit.') K has dvgur´ 'lying place', Gd dvapɔ´ (dvgva´ 'lie'), igir´ 'kneeling place', Gd ika´ (igiya´ 'kneel') and vabur´ 'lying-prone place', Gd vapɔ´ (vabvya´ 'lie prone'), but W uses dvgur´ igir´ vabur´ as the gerunds (see above.)

Agent nouns can be made from nearly all verbs (agentive or not) usable in direct commands. They are derived with d; a tendency to limit stem length may cause deletion of preceding suffixes or d itself (affecting tone patterns §3.3.1.) They belong to a|ba. Agent nouns often develop specialised meanings. A few agent-like nouns are formed with m, e.g. zoom_n 'refugee', kpı'ım 'corpse.'

Most 2Vbs have an agent noun with Sg segmentally identical to the Ipf; if there are alternate forms, the less regular appears in the agent noun:

```
mεεda
                 'builder (mè)'
                                                                    'eater (dì)'
                                                   dıta
duguda'
                 'cook (dvg)'
                                                   dυ'ad<sub>a</sub>
                                                                    'relative' (duà' 'bear/beget')
tùon-gat<sub>a</sub>
                 'leader' (gàad 'pass')
                                                   sobida'
                                                                    'writer (sob)'
kpar<sub>l</sub>d<sub>a</sub>
                 'lock-er (kpar)'
                                                   sugurída
                                                                    'forgiver (sugur')'
                                                                    'seer, prophet' (gos 'look')
gbisida'
                                                   got<sub>a</sub>′
                 'sleeper (gbis)'
                                                                    'worker (tùm)'
pa'an<sub>na</sub>
                 'teacher (pà'al)'
                                                   tùm-tum<sub>na</sub>
yvvm-yv'vm<sub>na</sub> 'singer (yv'vm')'
                                                   bun<sub>na</sub>
                                                                    'reaper (bùn)'
```

3-mora stems in underlying g only form agent nouns if the g is assimilated or deleted; TP H fusion-verb agent nouns show initial M like Ipfs (not gerunds.)

```
naad<sub>a</sub>′
<sup>n</sup>wa'ad<sub>a</sub>
                    'woodcutter (nwà'e)'
                                                                                'persister' W (nae´ 'finish')
di'eda'
                    'receiver (di'e')'
                                                            รบทเป<sub>ล</sub>
                                                                                'helper (sùn)'
                    'believer (siàk)'
                                                            <sup>n</sup>wi-tέk<sub>a</sub>
                                                                                'rope-puller (tɛk´)'
siakıda
ken<sub>na</sub>′
                    'traveller (ken')'
                                                            ia<sup>n</sup>'ad<sub>a</sub> ′
                                                                                'flier (iank')'
```

3-mora stems in s always drop d in Sg and CIF, as do a few 2-mora stems:

```
kùos<sub>a</sub> 'seller (kùos)' tìs<sub>a</sub> 'giver (tìs)'
sòs<sub>a</sub> 'beggar (sòs)' zàb-zàb<sub>a</sub> 'fighter (zàb)'
```

Stems in mm drop d and have only nam_a Pls ($dam-dam_{ma}$ 'shaker'), but the tone pattern of sun_{na} 'deep thinker' W from sun_n 'bow the head' shows $nd \rightarrow nn$.

For 4-mora stems K has no agent nouns; W drops m and proceeds as usual:

```
pu'an_{na} 'harmer (pù'alìm)' siin_{na} 'proverb-citer (sìilìm)' zàa^{n}sa 'dreamer (zàa^{n}sìm)'
```

1Vbs drop d after II nn, and sometimes after rs:

```
zı'ıda´
mi'ida′
                   'knower (mi')'
                                                                           'ignorant person (zı')'
son'oda'
                                                        sv'vda´
                   'outdoer (son'e<sub>va</sub>')'
                                                                           'owner (sv'e<sub>va</sub>')'
zi<sup>n</sup>'ida
                   'sitter (zìn'iva)'
                                                                           'stander (zì'e<sub>va</sub>)'
                                                        zi'ed<sub>a</sub>
digida'
                  'lier-down (dıgı<sub>va</sub>')'
                                                        igida´
                                                                          'kneeler (igi<sub>va</sub>')'
vabida'
                  'lier prone (vabı<sub>va</sub>')'
                                                                           'croucher in hiding (lablya)'
                                                        labıda
nònìda
                  'lover (nòn)' tones sic
                                                        aanda
                                                                           'one who is a ... (àenva)' W
                  'leaner (dɛl<sub>la</sub>')'
                                                        bù-zanl<sub>la</sub>
nin-dέl<sub>la</sub>
                                                                          'goat-holder (zanl<sub>la</sub>')'
nin-nέn<sub>na</sub>
                  'envier (nenna')'
                                                        nin-sín<sub>na</sub>
                                                                          'silent person (sin<sub>na</sub>')'
bù-mora í
                  'goat-owner (mora')' W
                                                       gura'/gurida''guard (gura')'
                   'rememberer (tὲ<sup>n</sup>r<sub>a</sub>)'
                                                        kisa'/kisida' 'hater (kisa')'
te<sup>n</sup>rıd<sub>a</sub>
```

Stems in II/r have variant forms in rɛ[aa, e.g. bù-zanli Pl bù-zanli a.

Imperfective verbal adjectives form their stems like agent nouns, but drop d more readily. Uncompounded, they are synonymous with agent nouns: kvvdír 'killer.' As adjectives, they mean "habitually connected with the verbal action, actively or passively"; past passive senses can also occur: sum-dúgòdà 'cooked groundnuts', ki-dá'adà 'bought millet' W.

Most verbs show the same stem as in the agent noun Sg/CIF:

```
puà'-la'adır
                                         'laughing/laughable woman (là')'
bun-nyétir
                                         'visible object ("yε)'
na'-dá-kuodír
                                         'ox for ploughing (kua LF kua)'
fu-yéedìr/-yéedòg
                                         'shirt for wearing (yὲ)' W/K
tì-kvvdím
                                         'poison' (ku 'kill')
                                         'native land' (duà' 'bear/beget')
tèŋ-dv'adıga
yi-sígìdìr
                                         'lodging-house' (sig 'descend')
yεl-sύ'adìr
                                         'confidential matter' (sua' 'hide')
bun-5<sup>n</sup>bìdà
                                         'solid food' (>nb 'chew')
bun-búnnìr
                                         'thing for reaping (bùn)'
bun-túmmir Pl -túmnà S
                                         'useful thing' (tòm 'work')
tì-vunním
                                         'oral medication' (vul 'swallow')
puà'-gbisidír
                                         'woman always sleeping (gbis)'
```

```
bùn-kennír
                                              'donkey that doesn't sit still' (ken' 'go')
puà'-ginníga
                                              'prostitute' (gilig´ 'go round')
                                              'anointing oil (sue<sup>n'</sup>)'
kpa-sɔʻɔndìm
bun-yátìr
                                              'scattering thing (yadıg')'
bun-ján'adìr
                                              'flying creature (iank')'
bù-sa<sup>n</sup>'ammιr
                                              'scapegoat' W (sàn'am 'destroy')
bun-pélisir
                                              'sharpening thing (pèlis)'
bun-kúosìr
                                              'item for sale (kùos)'
bùn-digidír
                                              'donkey that lies down a lot (digiva')'
                                              'donkey that always lies prone (vabiva')'
bùŋ-vabıdír
kug-zín'idìr
                                              'stone for sitting on (zìn'iva)'
no-zá<sup>n</sup>l<sub>l</sub>
                                              'hen for holding in hands (zanla')'
kùg-dɛl<sub>l</sub>'
                                              'chair for leaning on (dɛlla')'
bun-gúl<sub>l</sub>
                                              'thing for suspending (qùl<sub>la</sub>)'
```

3-mora stems in g k ŋ and all 4-mora stems drop d:

```
bun-péligir
                                           'thing for whitening (pèlìg)'
bun-túlìgìr
                                           'thing for heating (tulig')'
                                           'disaster' (pàk 'surprise')
yɛl-pákìr
<sup>n</sup>wi-tέkìr
                                           'pulling-rope (tek')'
bun-súnìr
                                           'helpful thing (sùη)'
bì-nònìr
                                           'beloved child (nòn)'
                                           'harmful woman (pù'alìm)'
puà'-pù'alíŋa
                                           'thing relating to citing proverbs (sìilìm)'
bun-síilúna
puà'-zàansύη<sub>ο</sub>
                                           'dreamy woman (zàansìm)'
```

Perfective verbal adjectives are stative, and can only be formed from verbs which can use the Pf with stative meaning §9.1. The formant Im is added to roots; some speakers have forms in I alone.

àaʰlúŋ _ɔ	'torn (àe ⁿ)'	gεε lúŋ _ɔ	'tired (gε ⁿ)'
kòɔlúŋ _ɔ	'broken (kɔ̀)'	kpìilúŋ _ɔ	'dead (kpì)'
pὲ'εlύŋ _ɔ	'full (pὲ'εl)'	pù'alúŋ _ɔ	'damaged (pù'alìm)'
yὲεlύŋ _ɔ	'worn [shirt] (yὲ)'	yàɔlúŋ _ɔ	'closed (yɔ̀)'

Instrument nouns can be created freely by adding m to Ipf verbal adjective stems in d t or s; all are ga|sɛ. Some can have agent-noun meanings.

```
'belt' (lo 'tie')
sià-loodína
svvdເŋa
                                          'sponge' (sù 'bathe')
                                          'pusher (da'e')' (person or thing)
da'adína
                                          'axe' ("wà'e 'cut wood')
<sup>n</sup>wa'adıŋa
                                          'writing implement (scb)'
sobidina
                                          'cup' (originally "seed cup": bùd 'plant')
butina
                                          'thing for locking (kpar)'
kparıdına
piedína
                                          'thing for washing oneself (pie')'
                                          'mirror' (gos 'look'); nin-gótis 'glasses'
nin-gótìŋa
                                          'salesperson (kùos)'
kuosina
                                          'cleaning implement (pies')'
piesíŋa
zin'idıŋa
                                          'thing for sitting on (zìn'iva)'
```

A few show s or d alone: dɪgɪsúgə 'bed' (dɪgɪya´ 'lie'), dɒʊsír 'step' (dʊ 'rise'), tuodır 'mortar' (tua LF tua 'pound.') Here ld becomes single n: pibinn 'covering (pibil)' (Mooré pibíndgà), maann 'sacrifice (maal)', zanbınn 'tattoo (zanbil).'

6.1.2 Prefixes

Prefixes precede many nominal-stem roots. Most have no identifiable meaning, though they are common in certain semantic fields (e.g. insects.) They have the form CV(N) CVsN or CVIN, where N is a nasal homorganic with the root-initial, with an epenthetic vowel after s/l. No prefix begins with y/ny. For tones see §3.3.

CVsN/CVIN prefixes copy root-initial CV (one mora, without glottalisation or contrastive nasalisation):

silinsîu ⁿ g _o	'spider'	vùlìnvùu ⁿ l _l	'mason wasp'
zılınzî'og _ɔ	'unknown'	tàsìntàl _l	'palm of hand'
wàsìnwàl _l	'tree gall'	ทธรเททธog _ว ์	'centipede'

So do CV(N) prefixes, but here a $\epsilon \to \iota$, $\tau \to \upsilon$. After t/s, ι i replace $\tau \to \upsilon$ is required if C is a voiced obstruent.

kìkàŋ _a	'fig tree'	kùkɔr′	'voice'
kpùkpàrìg _a	'palm tree'	kpìkpin _{na}	'merchant'
tıta'ar	'big'	pipiríg _a	'desert'
sìsì'em	'wind'	fบfบm _n	'envy; stye'
lìlaalíŋ _a	'swallow'	mìmiilím	'sweetness'

kìŋkàŋ _a	'fig'	tıntɔʰríga	'mole'
sınsáa ⁿ	kind of tiny ant	dìndεog _ວ ´	'chameleon'
dùndùug _ɔ	'cobra'	bìmbìm _n	'altar'
bùmbàrìg _a	'ant'	gùŋgʋm _n	'kapok material'
zเทzลงุŋ _ɔ ´	'bat'	zùnzòŋ _a	'blind'

Unexpected vowels appear in silinsauk 'sugar ant', tàtàl_| 'palm of hand', kpàkur' 'tortoise.'

Ca(N) prefixes usually begin with d b s or z:

dàkiig _a	'wife's sibling'	dàyuug _ɔ ´	'rat'
dàgɔ̀bìg _a	'left hand'	dàmà'a	'liar'
dadúk _o	kind of large pot	dàŋkɔ̀ŋɔ	'measles'
balɛrʋgɔ´	'ugly'	sàbùa	'lover, girlfriend'
samán _n	'courtyard'	saŋgúnnìr	'millipede'
zàŋkù'ar	'hyena'	zàŋgùom _n	'wall'

Unusual initial consonants appear in e.g. làngáun₂/màngáun₂ 'crab', nàyiig_a 'thief', gbányà'a 'lazy person' (with an irregular H tone prefix.)

Some pυ/kὑ(N) prefixes derive from negative VP particles, as in kὑndὑ'ar 'barren woman' (dụà' 'bear'); nin-punan_{na}´ 'disrespectful person' (nan_{na}´ 'respect'); tùb-puwúmnùba 'deaf people' (wùm 'hear'), but most have no evident meaning: gumpuzɛr´ 'duck', ban-kúsél_l 'lizard', kùndùŋa 'hyena.'

Other prefixes derive from CIFs. Dà 'man' appears in dàpaal_a´ 'young man' and dàkòɔnr 'bachelor.' Pò 'woman' is seen in pòkòɔnr 'widow.' Po in pokpaad_a´ 'farmer' is related to pɔɔqɔ´ 'farm'; it behaves as a prefix tonally.

Some manner nouns have a prefix à, after which L tone becomes H: àníŋa´'promptly', àmɛŋá/àsɪda 'truly.'

Numeral prefixes are fossilised flexions §8.5.1.

The initial syllables of loanwords §7 are often reinterpreted as unusual prefixes, as in e.g. màliaka´ 'angel', Arabic mal'ak; anzúrìfà 'silver', Hausa azùrfaa; bákpàe̯ 'week', Hausa bakwài; àràzàka 'riches', Arabic arzāq.

Some stems have two prefixes; possibly they too originated as loans. Ethnic group and clan names often have unusual prefixes, e.g. "Wampuris´ 'Mamprussi'; here an origin as loanwords would be unsurprising.

6.2 Verbs

6.2.1 Two-aspect

2Vbs may be derived with the suffixes g (see $\S 3.2.2$) s I n m or Im. g after nominal or quality 1Vb roots derives patientive ambitransitive 2Vbs expressing a change of state $\S 9.7.1$:

bugusír	'soft'	buk′	'soften'
dεεŋ _a	'first'	dὲŋ	'precede'
kpì'a	'neighbour'	kpì'e	'approach'
kpi'oŋ _ɔ	'strong'	kpè'ŋ	'strengthen'
kudug _o	'old'	kùdìg	'shrivel up, dry out, age'
lallúg _o	'far'	lalıg´	'become/make far'
ma'asír	'cool, wet'	ma'e´	'get cool, wet'
màʊ̯kɔ	'crumpled'	màk	'crumple'
mì'isùg _ɔ	'sour'	mì'ig	'turn sour'
ⁿ yɔ'ɔs´	'smoke'	ⁿ yu'e´	'set alight'
pìelìg _a	'white'	pὲlìg	'whiten'
pɔ̀ɔdìga	'few'	pò'ɔg	'diminish, belittle'
tadım	'weak person'	tàdìg	'become weak'
tεbιsίr	'heavy'	tεbιg´	'get/make heavy'
tùtul _l	'upside-down thing'	tùlìg	'invert'
tບບໄບ໌g _ວ	'hot'	tulıg´	'heat up'
vur´	'alive'	vu'ug´	'make/come alive'
wàນຼ໗ _ວ	'wasted'	wàŋìm	'waste away' (gm)
ⁿ wiig _a ′	'rope'	ⁿ wiig′	'make a rope'
zùlùŋ _ɔ	'deep'	zùlìg	'deepen'

g is otherwise monactional. With stance or relational 1Vb roots the effect is inceptive; with other roots, corresponding pluractionals are often derived with s.

nὲị _{ya}	'be awake'	nìe	'awaken'
sɔʰ'eya´	'be better than'	su ⁿ 'e′	'become better than' W
gɔra´	'be looking up' D	gɔdɪg´	'look up' D
kà'ɔg	'break' (monactional)	kà'ɔs	'break several times'
di'e´	'receive'	di'es´	'receive (many things)'
<u>j</u> a ⁿ k′	'fly, jump'	i̯an'as´	'jump repeatedly'
ya'e´	'open mouth'	ya'as´	'open repeatedly' W
àen	'tear'	àans	'tear repeatedly'

The inherited reversive suffix was lost as a result of historical sound changes (Eddyshaw 2024, 3.3.1.2.) It was regularly followed by either monactional g or pluractional s, which are now left as apparent reversive suffixes. As reversives tend naturally to be monactional, g appears here more often than s.

$\grave{\epsilon}^n d$	'block up'	ὲʰdìg	'unblock'
lo	'tie up'	lod(g´	'untie'
pà'al	'put on top'	pàk	'take from top'
pìbìl	'cover up'	pìbìg	'uncover'
pìd	'put (hat etc) on'	pìdìg	'take (hat etc) off'
pìl	'cover'	pìlìg	'uncover'
tàb	'get stuck to'	tàbìg	'unstick, get unstuck'
yà'al	'hang up'	yàk/yà'as	'unhang'
yὲ	'dress oneself'	yὲεg/yὲεs	'undress oneself'
ćy	'close'	yɔ̀'ɔg/yɔ̀'ɔs	'open'

s has a separate role deriving causatives:

dì	'eat'	dìιs	'feed'
kpὲ ⁿ '	'enter'	kpèn'es	'make enter'
kpìig	'go out (fire)'	kpìis	'quench'
lèb	'return'	lὲbìs	'send back; answer'
mu̯à'	'suckle'	mὺ'as	'give suck to'
nìe	'appear'	nὲεs	'reveal'
sig	'go down'	sigis´	'lower'
yi	'go/come out'	yiis´/yis	'make go/come out'
zɛm _{ma} ´	'be equal'	zεmιs´	'make equal'
zụà LF zùa	'friend'	zùos	'befriend'

I derives causatives from both nominal and verbal roots:

gεog _o	'space between legs'	gεεl´	'put between legs' TP H sic
lika	'darkness'	lìgìl	'cover up'
ma'e´	'get cool, wet'	ma'al´	'make cool, wet'
ⁿ yá'aŋ _a	'behind'	ⁿ ya'al´	'leave behind'
puʰ'e´	'rot'	pɔn'ɔl´	'cause to rot'
wu'ug´	'get wet'	ש'טו'	'make wet'

ba ⁿ '	'ride'	ba ⁿ 'al´	'put on horse/bicycle'
gu'	'guard'	gu'ul´	'set on guard'
nìe	'appear'	nèɛl	'reveal'
yὲ	'dress oneself'	yὲεl	'dress someone'
zàb	'fight'	zàbìl	'make fight'
nu	'drink'	nulig'/nulis'	'make drink'

n derives inceptive 2Vbs from stance verbs $\S 5.3.2$, with causatives in I. 2Vbs derived with n are always TP A. Some n/l pairs appear which have no corresponding 1Vb.

		Inceptive	Causative
zì'e _{ya}	'stand'	zì'en	zì'el
zì ⁿ 'i _{ya}	'sit'	zì ⁿ 'in	zìn'il
ti'i _{ya} ´	'(thing) lean'	tì'in	ti'il′
gɔ'e _{ya} ´	'look up' W	gà'ɔn	
dıgı _{ya} ´	'lie down'	dìgìn	dıgıl´
igi _{ya} ´	'kneel '	ìgìn	igil´
làbì _{ya}	'crouch in hiding'	làbìn	làbìl
vabı _{ya} ´	'lie prone'	vàbìn	vabıl´
sùr _a	'bow head'	sùn _n	sùn _n sic
	'cover oneself'	lìgìn	lìgìl
	'perch'	zùon	zùol
	'perch'	yà'an	yà'al

Some stance verbs use a root-stem 2Vb as inceptive: gil_{la} 'hang', gil_{la} 'start hanging/hang up', $tabi_{ya}$ 'be stuck to' with tab 'get stuck to', beside $tabil_{la}$ 'stick to.' $tabil_{la}$ '(person) lean' has the inceptive derivative $table_{la}$.

m has a middle/reciprocal meaning in a few verbs, e.g. là'am 'gather' (intransitive), cf là'as 'gather' (transitive), and in preverbal adjuncts $\S 9.4.3$ of verbal origin like lèm 'again', cf lèb 'return.' There are a few cases of a "bodily process" sense, e.g. kònsìm (beside kòns) 'cough.' The suffix also appears in $n\epsilon\epsilon$ 'grind', cf $n\epsilon\epsilon$ 'millstone.'

The combination Im derives state-change 2Vbs from nominal roots:

gìka	'dumb'	gìgìlìm	'become dumb'
gu'us	'semi-ripe things'	gù'ulìm	'become semi-ripe'
pòn'or	'cripple'	mílc¹ºćq	'cripple, get crippled'
wàbìr	'lame'	wàbìlìm	'make, go lame'

An unusual derivational b appears in ya'ab 'mould clay', cf ya'ad 'clay.'

6.2.2 One-aspect

Quality verbs $\S 5.3.2$ add the flexion a to adjectival or human-reference stems. Nominal TP A becomes verbal TP H.

TP H	vur′	'alive'	νυę _{ya} ´	'live'
	bugusír	'soft'	bugus _a ′	'be soft'
	ma'asír	'cool'	ma'as _a ´	'be cool'
	tεbιsίr	'heavy'	tεbιs _a ´	'be heavy'
	malısír	'sweet'	malıs _a ´	'be sweet'
	labısír	'wide'	labıs _a ´	'be wide'
	zεmmύg _ɔ	'equal'	zεm _{ma} ´	'be equal to'
	lallúg _o	'far'	lal _{la} ′	'be far from'
TP A	toogo	'bitter'	tɔe̯ _{ya} ´	'be bitter'
	giŋa	'short'	gim _{ma} ′	'be short'
	kpi'oŋ _ɔ	'strong'	kpi'em _a ´	'be strong'
	kpεε ⁿ m	'elder'	kpεε ⁿ ma´	'be older than'
	™wɛnnır	'resembling'	ⁿ wεn _{na} ′	'be like'
TP L	pɔ̀ɔdìg _a	'small'	pòod _a	'be few, small'
	mì'isùg _ɔ	'sour'	mì'is _a	'be sour'
	sùŋ _ɔ	'good'	sùm _{ma}	'be good'
	yàlùŋ _ɔ	'wide'	yàlìm _a	'be wide'
	zùlùŋ _ɔ	'deep'	zùlìm _a	'be deep'
	vè ⁿ llìg _a	'beautiful'	νὲ ⁿ l _{la}	'be beautiful'
	vὲnnìg _a	'beautiful'	vèn _{na}	'be beautiful'

In a few cases there are also segmental stem changes:

wɔkɔ´	'long, tall'	wa'am _a ´	'be long, tall'
tນນlúg _ວ	'hot'	tul _{la} ´	'be hot'
bàa ⁿ lìg _a	'thin'	bà ⁿ l _{la}	'be thin'
ⁿ yὲεsίŋ _a	'bold'	ⁿ yὲεs _a	'be bold'

72 Loanwords

7 Loanwords

Most loanwords are nouns; they are often structurally atypical 6.1.2. They may pluralise with nam_a , but are more often fitted into noun class sets by analogy:

màli̯ak _a ´	màli̯a'as´	màli̯a'-	'angel'	(Arabic mal'ak)
gadug _o ´	gat´	gad-	'bed'	(Hausa <i>gadoo</i>)
lór	lóyà/lóɔm _{ma}	lór-	'lorry'	(English)
màlìf _o	màlì		'gun'	(Arabic <i>midfa</i> ')

Consonant-final foreign proper nouns add ϵ for the LF: Herodiase Mt 14:4 B2. All-M loans may change final M \rightarrow H in CIFs: duniyá-kàŋa´ 'this world (duniya).' Borrowed verbs obey the usual constraints on verb form.

Most loanwords were adopted early enough to have undergone the word-internal tone spreading processes characteristic of Agolle Kusaal §3.3.2. However, English loans (unless borrowed via Hausa, see below) are tonally unusual: in particular, H standing for English stress remains fixed throughout, as with lór.

Most identifiable loans came from Hausa in the first instance. They include even verbs and particles, e.g. bòg 'get drunk', Hausa bùgu; dàam 'disturb, trouble', Hausa dàamaa; báa 'not even', Hausa bâa; àmáa 'but', Hausa àmmaa; kvv 'or', Hausa koo; tò 'OK', Hausa tòo. Loans not traceable beyond Hausa at present include àtèvkɔ 'sea', Hausa tèeku; à mús 'cat', Hausa mussàa; bákpàe 'week', Hausa bakwài 'seven'; gadv 'bed', Hausa gadoo; karıfá 'o'clock', Hausa karfèe 'iron' (from an iron bar beaten to mark the hours); kèɛkè 'bicycle', Hausa kèekee; kɔlìbìr 'bottle', Hausa kwalabaa; girima 'importance, prestige', Hausa girmaa; tilás 'necessity', Hausa tiilàs.

Many loans are ultimately from Arabic, e.g. àràzánà 'heaven, sky', Arabic al-jannah 'the garden, paradise'; yàdda´ 'trust', Arabic yarḍá 'he is satisfied', via Hausa yàrdaa 'agreement'; gáafàrà 'sorry!', via Hausa gaafaràa; kulum 'always' §9.4.2, Arabic kull yawm 'every day' via Hausa kullum 'always'; fitulá 'lamp', Arabic fatīlah 'wick', via Hausa fitilàa 'lamp'; and the weekday names §8.3. Most have come to Kusaal through Hausa, but some have been transmitted via other languages used by Muslims in West Africa, and/or via Mooré. Other words of Arabic origin include àmí 'amen', Arabic āmīn; àràzàka 'riches', Arabic arzāq; àsùbá 'dawn', Arabic al-ṣubḥah; bárìkà 'blessing', Arabic barakah; duniya 'world', Arabic dunyā; ; láafiyà/láafi 'health', Arabic al-ʿāfiyah; làbaar 'news'. Arabic al-akhbār; màlìfɔ 'gun', Arabic midfaʿ; sàríyà 'law', Arabic sharīʿah; sarıgá 'prison', Arabic sāriqah 'fetter.' Tì'eb 'prepare' has acquired the additional sense 'heal' from Arabic tibb 'medical art.'

73 Loanwords

Kusaasi often attribute local or individual speech variation to Mooré influence. Arabic loans via Mooré include màliaka´ 'angel', Mooré màlékà, Arabic mal'ak; sàlìbìr 'bridle', Mooré salbre Pl salba, Arabic salabah; Sutáanà 'Satan', Mooré Sutãana.

Mɔr´ 'Muslim' Pl Mɔ́ɔmma borrows Mooré Mórè Pl Moeemba. W has a Pl lɔ́ɔmma from lɔ́r 'car, lorry', formed by analogy with Mɔr´. Some apocope-blocked nouns may be Mooré or Mampruli loans, e.g. buudi 'tribe', Mooré Pl búudu; kabırı́ 'asking entry', Mooré kábrè 'excuse'; sugurú 'forbearance', Mooré súgrì; kabır´ 'ask entry', sugur´ 'forbear' are back-formations from the nouns. W uses kiibú 'soap', from Mampruli kyiibu, in place of the Kusaal kı'ıbɔ´.

Early Christian missions to the Kusaasi used Mooré and Toende Kusaal §1.2.1, and some Mooré loans were transmitted to Agolle Kusaal via Toende. Wínà'am 'God' (Mooré Wēnnàám) reflects Toende Wina'am: both the tonal structure and the single n are irregular in Agolle Kusaal (W has Wínnà'am.) Faangída 'saviour' borrows Toende fãagit: g is regularly lost in this context in Agolle §3.2.2. Màliaka´ 'angel' is written in the Toende form malek in B1/2, which also have Toende aarun for ànrònɔ 'boat' (itself a loan: Dagbani ŋariŋ 'boat' would correspond to an Agolle *àndònɔ.)

Twi loans include kɔdú 'banana', Twi *kwadu*; saafı 'key', Twi *safẽ* (Portuguese *chave*); burıyá 'Christmas', Twi *buro-onyã*; kɔtaa LF kɔtaanɛ 'at all', Twi *koraa*; bɔtu 'sack', Twi *bɔtɔ*.

Bùrìkìna 'noble' and bàṇŋò 'circumcision' come from Songhay: cf Tondi Songway Kiini bòrkin 'noble', bàngù 'circumcision.' Both Songhay words have been widely borrowed in West Africa. Lòmbòn'ɔgɔ 'garden' is probably from Songhay (cf Humburi Senni làmbò 'enclosed vegetable garden') via Hausa làmbuu; it has been adapted by analogy with Kusaal bòn'ɔgኃ 'swamp, ricefield.'

Berber is the ultimate source of a number of words which are widespread in West African languages; of these, Kusaal has anzúrìfà 'silver', via Hausa azùrfaa, and halí 'even.' Kusaal yugúm_n 'camel' has cognates elsewhere in Western Oti-Volta, but the protoform probably derives from Berber, cf proto-Berber *a-lyəm.

Several Kusaal particles are regional words of unclear origin, e.g. àsέε 'except.'

English loanwords can be much altered: àlɔ́pir 'aeroplane'; doʻatà 'doctor'; tɔ́k-làe 'torch' ("torchlight"); pɔ́ɔtim 'denounce to the authorities' ("report.") Some have been transmitted via Hausa, like wadá 'law' ("order"), Hausa oodàa.

French loans include làmpɔ´ 'tax' from l'impôt.

Portuguese is the ultimate origin of some of the oldest European loanwords in West Africa; thus saafı 'key' from *chave*, daká 'box' from *arca* via Hausa àdakàa. Even kùkur´/kùrkur´ 'pig' (Mampruli *kurikyuu*) is probably from Portuguese *porco*, via a chain of borrowing and remodelling; given that labial-velars do not contrast with velars before rounded vowels in Kusaal §2.1, cf Dagaare *póríkó*, Twi *prako* and Gã *kploko*, older *kproko* (Christaller 1881.)

8 Noun phrases

8.1 Structure

A noun phrase (NP) is headed by a noun, pronoun or quantifier; see §10.5 for nominalised clauses. Free dependent NPs may precede the head recursively. Some pronouns have specialised roles as heads; otherwise the meanings correspond to the wide range expressed by English genitives or complements with "of", e.g. day la bútin 'the man's cup', salıma bútin 'a gold cup' ('cup of gold.') The head may be followed in order by adjectives, quantifiers, dependent pronouns, appositives, and the article. Particular NP subtypes (including pronouns) fulfil adverbial roles §9.7.2.

Compounds are sequences of nominals in which each but the last appears as a compound-initial form (CIF) §5.1.2: CIFs are not word fragments, but bound words. Compounding is predominantly postsyntactic (Shibatani and Kageyama 1988.) Noun heads regularly become CIFs before adjectives or dependent pronouns: bvvga 'goat', bv-pieliga 'white goat', bv-kàn 'this goat.' However, dependent CIFs are also common: bv-zvvr 'goat-tail', bv-kvvda´ 'goat-killer', zà'-nɔɔr´ 'gate' ("compound-mouth.") In both types of compound, the final class suffix marks the number of the head, and the tone sandhi is identical. The final element of a compound becomes a CIF in turn before an adjective/dependent pronoun, or when the compound is a generic argument before a deverbal noun: bv-piel-wokɔ´ 'long white goat', bv-piel-kàn 'this white goat', zà'-nɔ-píeliga 'white gate', zà'-nɔ-gúra 'gatekeeper.' Noun-adjective compounds may appear as bahuvrihi adjectives: bv-nɔb-wókɔ 'long-legged goat.'

Modifiers, including free NPs as premodifiers, bind tighter syntactically than generic arguments bind to deverbal nouns, while determiners bind loosest of all; thus CIFs can form immediate constituents with preceding unbound words:

salıma zá'-nɔɔr 'golden gate'
but salıma bútìŋ-kàn 'this gold cup'
salıma lá'-maan 'goldsmith' ('[gold item]-maker')
salıma lá'-maan 'this goldsmith'
ò salıma lá'-maan 'her goldsmith'
anzúrìfà nɛ salıma lá'-maan '[[silver and gold] item]-maker'

Coordination of NPs (including nominalised clauses) uses ne 'with' for 'and'; it cannot be omitted in lists, and does not join two words with the same referent. 'Or' is bee or kou; by default the meaning is exclusive, but inclusive is possible.

À Wιn né à Bugur né à Nà'ab
 'Awini, Abugri and Anaba'
 'a doctor and a chief' (two people)
 À Wιn kúu à Bugur kúu bà wusa
 'Awini or Abugri or both of them'

CIFs are not coordinated. Ka m nyɛ sangbauŋ nɛ tengbauŋ paal 'And I saw a new sky and a new earth' Rv 21:1 is probably an error: contrast the Toende version Ka mam yẽ agola paalık ne tıŋ paalık.

Dependents usually apply to every component of a coordinated head:

pu'ab nε biis la
pu'ab nε biis la
woman.Pl with child.Pl the

Midian teŋ dim la pu'ab nε biis
Midian téŋ dìm la pû'ab nε biis
Midian land ØP the woman.Pl with child.Pl

salıma bύtιις nε díιςímà
gold cup.Pl with spoon.Pl

'the women and children'
Nm 31:9

'the Midianites' women and children'
Nm 31:9

'gold [cups and spoons]'
("all of them gold", K)

However, if the components are not parallel, the dependent is taken with the nearest alone. Thus in salıma lâ'ad nɛ butus 'cups' is a subtype of 'goods'; K and W agreed that it must mean '[gold goods] and cups.' For 'gold [goods and cups]', W offered salıma lâ'ad nɛ́ ò butus (for the "animate" ò pronoun see §8.2.)

Coordinated dependents are often interpreted as if the head was repeated:

dύ'atà nε nâ'ab la lóyà	'Doctor's car(s) and the chief's car(s)'
doctor with chief the car.Pl	(but possibly cars owned in common)
anzúrìfà nε salιma lá'-maan	'maker of silver goods and gold goods'
silver with gold item-maker	(but possibly items made of both)

For coordination of numerals see §8.5.1.

Number is a category of nouns, pronouns and quantifiers; agreement appears only in pronouns and adjectives.

Count nouns distinguish Sg/Pl; mass nouns take Sg agreement. Quantifier choice, $n\grave{a}m_a$ Pl forms, and predependent uses are affected by this distinction, which is fundamentally semantic: count nouns may appear in mass senses and vice versa, e.g. ligidi 'cowries/money', pi̯àn'ad 'words/speech', dàad bún 'wooden thing', daam nám 'beers', tɛn'ɛsá yɪnní 'one thought.' Except in names §8.3, kut 'iron' has displaced Sg kudugɔ 'iron nail.' Formally, bɔ| and most mɛ| nouns are mass; gerunds take various Sg class suffixes §6.1.1; many mass nouns have Pl class suffixes, e.g. ban'as 'disease', waad´ 'cold', siind´ 'honey', salıma 'gold.'

8.2 Pronouns

Most pronouns distinguish animate/inanimate in the singular (but not plural.) Thinking/speaking entities, human beings, higher animals, and (traditionally) trees are animate, the rest inanimate. The distinction is not lexical, but based on how the referent is regarded in context; examples of animate pronouns are

```
Ka wief ya'a sigi li ni, li zuluŋ na paae o salibir.

Kà wief yá' sigí lì ni, lì zùlùŋ ná páe ò sàlìbìr.

and horse if descend 3I at 3I depth Irr reach 3A bridle

'If a horse goes down in it, its depth will reach its bridle.' Rv 14:20
```

Tiig wela bigisid on a si'em. 'The fruit of a tree shows what it is.' Tùg wélà bìgìsìd ón \grave{a}^n si'em. Mt 12:33 B1

tree fruit.Pl show.Ipf 3A.Nz be how

Nobir ya'a yɛlin ye [...], lin ku nyaŋi kɛ ka o ka' niŋgbiŋ la nii.
Nóbìr yá' yɛ̂lı_n ye [...], lin kú "yaŋı_ kɛ́ kà ò ka' nín-gbiŋ la níı_.

leg if say_DP that DemI Ng.Irr prevail_+ let and 3A Ng.exist body the at_Ng
'If a leg said [...] that could not cause it not to be in the body.' 1 Cor 12:15

In unselfconscious speech animate pronouns often appear for inanimate:

```
Nif-káŋa, on sân'am nε.

eye-Dem 3A spoil Foc

M pυ nyεό_o_.

I can't find it [stethoscope]' (overheard)

1S Ng see_3A_Ng

salıma lâ'ad nέ ὁ bυτιιs

gold item.Pl with 3A cup.Pl
```

However, the non-anaphoric dummy-subject pronoun 'it' is always li:

```
O ans m pu'a. 'She is my wife.' Gn 26:7

O à nś m pua'.

3A be Foc 1S woman

but Li ans Zugsob Ia. 'It is the Lord.' Jn 21:7
```

Lì à nɛ Zug-sób la.

31 be Foc Lord the

Personal pro	nouns:
---------------------	--------

	Bound	Enclitic	Free	Subject+n §10.5
1S	m̀	m _a	man/mam	mán
2S	fù	f _o	fun	fún
3A	ò	0	on	ón
3I	lì/dì	lt	lın/dın	lín/dín
1P	tì	tι	tınám _a	tınámì_
2P	yà	ya	yanám _a	yanámì_
3P	bà	ba	ban	bán

2P2 _{va} is used as 2P subject after imperatives §10.3.2.

All bound forms are liaison words §4.4; the enclitics appear as objects.

In isolation, in coordination, before dependents, or when focused, only free forms can occur:

Mànè_?	'Me?'
tιnám nε fυn	'us and you'
man Paul	'I, Paul'
Fun kanε buoli fu mɛŋ	'You who call yourself' Rom 2:17
Fυn-kánὶ_ bùolὶ fừ mɛŋ	
2S-Dem_Nz call 2S self	
Manɛ an kɔnbkem svŋ la.	'I am the good shepherd.' Jn 10:11
Manı_ áʰ kɔ́ʰb-kìm-sùŋ la.	
1S_+ be shepherd-good the	

In positions where bound forms are possible, free forms express contrast; a special case is logophoric use in content clauses §10.7.

There are no honorific usages.

2S is used for a generic 'one':

```
Bung ya'a bood ye o lubuf, fu po nyeti o tubaa.

Bùŋ yá' bòɔd yé ò lubí_f, fù pu nyetí ò tùbaa_.

donkey if want.Ipf that 3A throw.off_2S 2S Ng see.Ipf 3A ear.Pl_Ng

'If a donkey wants to throw you off, you don't see his ears.' §13.2
```

3P is used as a non-specific 'they' for turning passive constructions actively; in catenation the object can even be treated like a grammatical subject.

```
Bà yòɔdı_f súŋáa_?

'Are you well paid?' S

3P pay.Ipf_2S well_PQ

Diib wusa nari ba di.

Dub wusa nárì_ bà dí.

food all must_+ 3P eat

'Are you well paid?' S

'All foods may be eaten.' Rom 14:20
```

Demonstrative pronouns:

			Animate		Inanimate Sg	Pl
Head	Long		òŋa´	far	lìna´	bàmma´
				near	ทธ'ะŋa	
	Short		òn	far	lìn	bàn
				near	nε'	
Dependent	Long		kàŋa′		kàŋa´	bàmma´
	Short		kàn		kàn	bàn
			Time		Manner	Place
Adverbial		far	san-kán		àlá	kpε
		near	nannánna´		à ⁿ wá/à ⁿ wána´	kpεlá or àní/ànína´

Nε'εŋa nε' can form the specifically inanimate Pls nε'εŋa-náma nè'-nàma.

Note the tone difference between òn lìn bàn and free 3rd person pronouns.

"Short" demonstratives are used for discourse deixis, for interrogative 'which?', and in heads of relative clauses:

Fυnε an dau kan la!	'You are that man!' 2 Sm 12:7
Fυnι_ áʰ dá攻̞-kàn la!	(in the story just related.)
2S_+ be man-Dem the	
Lìnè_?	'Which one?'
Nif-kánè_?	'Which eye?'
fɒn-kánì_ bùol	'you who call'

"Long" demonstratives are used for spatio-temporal deixis. Inanimate heads have distinct forms for far and near, as do the time/manner/place series: kpɛ 'here', kpɛlá 'there'; elsewhere, 'that' can be specified by following the demonstrative with la´ and 'this' by a following "wà: dày-kàŋa la 'that man', dày-kàŋa "wá 'this man.'

Indefinite pronouns:

Animate Sg Inanimate Sg Pl

sɔ' si'ela sieba (modal vowel)

si'a si'a

Time Manner Place san-sí'a si'em zìn'-si'a

Sɔ' si'ela sieba may be head or dependent, si'a dependent only; for W (not K) it is much commoner than si'ela as dependent. For W, using si'a for people is pejorative.

Except in relative clause heads, under a negation, or before mὲ-kàmà '-soever', the sense is specific '(a) certain, (a) different'; with negative VPs, 'nobody, nothing':

yà bì-sɔ' 'a certain child of yours'

2P child-IdfA

Dày-sɔ' daa bέ 'There was a certain/another man'

man-IdfA Tns exist

na'asɔ' lɛm bɛ 'there is another king' Acts 17:7

nà'-sɔ' lέm bέ

king-IdfA again exist

M ná tı_f tí-si'a. 'I'll give you a different medicine.' W

1S Irr give_2S medicine-Idf

O ninid si'el mɛkama su'una. 'He does everything well.' Mk 7:37

Ò nìŋìd si'el mé-kàmà sú'ŋa.

3A do.Ipf IdfI whatever well

Sɔ' ka'e . 'There's nobody there.'

IdfA Ng.exist Ng

M˙ ρυ yέl si'ela_. 'I haven't said anything.'

1S Ng say IdfI_Ng

o bisɔ' ku zin'in David na'am gbauŋ la zug bεε di na'am Juda teŋinε.
ò bì-sɔ' kú zin'in David nâ'am gbáyŋ la zúg bεε dí na'am Juda téŋι_nέ_.

3A child-IdfA Ng.Irr sit.down David kingdom skin the on or eat kingdom Judah land_at_Ng
'no child of his will sit on David's throne or reign in Judah.' Jer 22:30

Interrogative pronouns:

Animate Inanimate

ànɔ̂'ɔn 'who?' bɔ 'what?'

Pls with nàma may be used if a specifically plural answer is being sought.

Time Manner Place

san-kán wslá yáa 'whither/whence?'

yáa ní 'where?'

Note also bɔ̀-wìn_n 'what time of day?', bun-dâar 'which day?'
Àlá 'how much/many?' has the numeral prefix à, preceded by a in liaison.
Bɔ can be used after a CIF as a dependent interrogative 'what?':

Na'-b5_? 'what cow?' W D

(Náaf bó_? 'What, of a cow's?' W)

Da-b5_? 'what beer?'

Bò- can be used as a predependent: 'what sort of?'

Fù túm bó-tùumà_? 'What sort of work do you do?' S

2S work.Ipf what-work.Gd.Pl CQ

Bo sonsig ka ya sonsid ne taaba? 'What are you discussing together?'

Bò-sónsìg kà yà sonsid nε táabà_? Lk 24:17

what-talk.Gd and 2P talk.Ipf with each.other_CQ

Bò-buudi 'what kind of?' can follow CIFs:

Na'-bɔ́-bùudì_? 'what kind of cow?'

Da-bɔ́-bùudì? 'what kind of beer?'

Fù á nε bɔ́-bùudì ? 'What ethnic group do you belong to?'

2S be Foc what-sort_CQ

Bo kímm is 'what exactly?' and bo zúg kímm 'why exactly?'

The **reciprocal** pronoun is taaba 'one another' (clause-medially taab for some speakers.) After a CIF it means 'fellow-': ò tòm-tòm-taaba 'his fellow-workers.'

Sònìmı_ taaba. 'Help one another.'

help.Imp_2P2 each.other

Tì yûug nε taaba.

'It's been a long time.'

1P delay with each.other

(sc. 'since we met') Κ

Bà dòl ne taaba. 'They go together.'

3P accompany with each other

The **reflexive** pronoun $m\epsilon \eta_a$ 'self' (Sg = Pl) always has a predependent:

nà'ab la mέη 'the chief himself'

chief the self

Bà ηyέε bà mɛŋ. 'They've seen for themselves.'

3P see 3P self

Fù mɛŋ kuu bí-lìàa ? 'Yourself or the baby?' ("Which of you

2S self or baby CQ needs the doctor?"; overheard)

An object identical to the subject must take reflexive form:

M˙ nwé'ε m˙ mεŋ. 'I hit myself.'

1S hit 1S self

When subjects act on parts of themselves, the objects take pronoun possessors; here reflexives express contrast:

Ba pu piesidi ba nu'us wuu lin nar si'em la ka ditta.

Bà pu piesídí bà nû'us wuu lín nar si'em lá kà díta.

3P Ng clean. Ipf 3P hand. Pl like 3I.Nz need how the and eat. Ipf_Ng

'They don't wash their hands properly before they eat.' Mt 15:1

Mam Paul n sɔb pυ'υs kaŋa nɛ m mɛŋ nu'ug.

Mam Paul n sɔb pῦ'υs-kàŋa né m mɛŋ nû'ug.

1S Paul + write greet.Gd-Dem with 1S self hand

'I, Paul, have written this greeting with my own hand.' Col 4:18

The **empty** pronoun sob_a is a dummy head for a preceding NP dependent; it specifies number and animacy but has no other semantic content.

```
Animate Sg sb_a Pl dim_a Inanimate Sg/Pl din_n
```

O sob/on sob mean 'the last person mentioned.'

Constructions with predependent NPs have the usual meanings, e.g. man dín 'my one, mine', à Wın dím 'Awini's family', pò-pìelìm sób 'upright person' (pò-pìelìm 'virtue'), duniya ní dìn 'earthly one [body]' 1 Cor 15:44, Bòk dím 'Bawku people', yiigá sób 'first person' (also yiig-sóba.) CIF predependents occur in set expressions: yi-sóba Pl yi-sób-nàma 'householder' (yir´ 'house'); yi-díma 'household members'; nif-sóba 'miser' (nifɔ´ 'eye'); tànp-sɔba 'warrior' (tanpɔ 'war'); zug-sóba Pl zug-sób-nàma 'boss', 'Lord' B (zugɔ´ 'head.')

8.2.1 Personaliser pronoun

The personaliser pronoun à precedes all Kusaasi personal names, with the allomorph \grave{n} before adjectives §8.3. Some animal and bird names always follow \grave{a} , with no implication of personification, e.g. \grave{a} d \grave{a} al \acute{u} 9, 'stork', \grave{a} mús 'cat.' Except when it takes the form \grave{n} , the pronoun is always omitted after predependents:

```
Lì à né à dàalúŋ.

but m' dàalúŋ 'It's a stork.'

'my stork'

day la dáalúŋ 'the man's stork'
```

Before VPs, à personalises in the role of a subject pronoun 'someone who ...'; as predependent to a clause subject, as 'someone whose ...' Clause personalisations pluralise with $n \ge 3$ and $n \ge 3$ with nominalisations with $n \ge 3$ negative enclitics are dropped unless the personalisation is itself clause-final.

```
à Kidigı_ bu'os

'Crossed over and asked'

(name of the constellation Orion)

a-daar-paaeya kum

'a natural death' Nm 16:29

à daar páe ya kúm

Pz day arrive NSb death
```

Clause personalisation is common in proverbs §13.2:

```
À daa yél ka' tîımm_. 'Did-say is no remedy.'
```

 \grave{A} "yε nε nif só"' \gt{a} wùm tùbà. 'Saw-with-eye beats Heard-with-Ears'

Pz see with eye surpass Pz hear ear.Pl

Pz Tns say Ng.be medicine Ng

```
À z\iota'_{-} kpí nàm kpîid né kà té<sup>n</sup>bìd.
```

Pz Ng.know_+ die Pl die.Ipf Foc and struggle.Ipf 'Don't-know-death are dying with a struggle.'

Ba wa'ene anakoom nua yir, ka ba po wa'e anoos be yire.

Bà wà'e né à nà kúu m̀ nua yír, kà bà pu wá'e à nɔɔs bé yíre_.

3P go Foc Pz Irr kill 1S hen house and 3P Ng go Pz hen.Pl exist house_Ng 'They go to Will-kill-my-hen's house, not to Has-hens' house.'

8.3 Proper names

When speaking English or French, Kusaasi usually cite proper names without apocope: à Win from Wìdì-nyá'aŋa introduces himself as "Awini" from "Woriyanga"; similarly "Kusaasi" for Kusâas, "Bawku" for Bɔkɔ etc. "Woriyanga" also reflects the *Mampruli* CIF *wuri*- 'horse': the convention originated in the use of Mamprussi guides and interpreters by the British in their initial explorations. The pattern has been generalised by analogy, and many forms show distinctively Kusaal phonology or vocabulary. Simple reproduction of Kusaal forms is occasionally seen, e.g. "Aruk" for the personal name à Duk, and "Kusaal" Kusâal itself.

A parallel development had taken place earlier in the Mamprussi region itself when the British arrived with Dagomba guides, resulting in forms like "Gambaga" (Dagbani *Gambaya*) for the Mampruli place name *Gambaa*.

Kusaasi personal names are NPs beginning with the personaliser pronoun à. Foreign names also take à (though not in B): à Muusa 'Moses', à Yiisa 'Jesus', à Simɔɔn 'Simon', but Wínà'am 'God' (W Wínnà'am) and Sutáanà 'Satan' do not. Animal names take à in fables: à Baa 'Dog'; cf Asan'aun à Sàn'un 'Abaddon' B. Before adjectives, à becomes fixed-L n: n Daug 'Ndago' ("male"), n Puak 'Mpoaka' ("female"), n Bil 'Mbillah' ("little.")

The Kusaasi did not use surnames traditionally. Speaking English or French, they use European or Muslim names and treat Kusaal personal names as surnames.

Personal names do not take articles, but do occur with other determiners: à Wın-káŋa 'this Awini', tì Wın 'our Awini'; tì ǹ Daug 'our Ndago.' They pluralise with nàma; à Wın-nám can mean 'more than one Awini' or 'Awini and his people.'

Most Kusaasi names are based on common nouns, but a few are based on adjectives, and some on whole VPs or clauses:

à Mɔr yam	'Amoryam'	"has intelligence" (a girl, G3 p6)
à Tìım bódìg ya	'Atimborigya'	"the medicine has got lost" (a man)

Many names allude to a sigir, a spiritual guardian assigned to a newborn after the father's consultation with a diviner; this may be the win_n 'spiritual individuality' of an ancestor, or of a powerful tree (which may then be marked with an iron spike):

à Wın	'Awini'	person with a sigir' from father's side
à Bugur	'Abugri'	bugur 'a sıgır´ from mother's family'
à Tìιg	'Atiga'	tìıga 'tree'
à Kudug	'Akudugu'	kudug _ɔ 'iron'

A younger sibling of à Win with the same sigir´ may be called à Win-bíl 'Awimbillah' (bila 'little'), of à Kudug, à Kùd-bil 'Akudibillah' etc. Girls' names may follow the pattern à Win-puák 'Awimpoaka' (puaka 'female.')

Other names refer to birth circumstances:

à Nà'ab	'Anaba'	nà'ab _a 'afterbirth' (chiefs leave after
		their retainers): sole survivor of twins
à Fuug	'Afugu'	fuug _o ´ 'clothing': born with a caul
à Tul	'Atuli'	tul 'inversion': breech-delivered child
à Nàsà-pụak	'Anasapoaka'	nàsà-puak _a 'European woman': girl
		delivered by a European midwife

Names (especially of girls) may reflect the weekday of birth: à Tínì (Monday), à Tàláatà (Tuesday), Àrzúmà (Friday), à Síbì (Saturday.)

Other names relate to apotropaic practices meant to break a cycle of stillbirths, such as discarding a dead child or burying it in a pot; the next surviving child may then be called e.g. à Tàmpour 'Tampuri' ("ashpit") or à Dok 'Aruk' ("pot.") Another strategy is pretended adoption by an outsider, resulting in names like

à Saan	'Asana'	saan _a ´'guest'
à Saan-dú	'Sandow'	saan _a ´'guest' + day 'man'
à Zàŋgbèog	'Azangbego'	Zàŋgbὲog, 'Hausa person'

See Haaf 1967 pp87ff for a more detailed account of Kusaasi naming practices, and Abubakari et al 2024 for an extensive analysis with many more examples.

The great majority of ethnic group and clan names are a|ba or ga|s ϵ . The place inhabited by the group adds Sg go to the stem; language names add | ϵ .

Ethnic group	Sg/Pl	Language	Place	
Barıg _a ´	Barıs'	Bat'	Barug _o ´	'Bisa'
Bìn _n	Bìm _{ma}	Bìn _n	Bìນຼŋ _ວ	'Moba'
Bùlìg _a	Bùlìs	Bùl _l		'Bulsa'
Bùsáŋ _a	Bùsâans	Bùsâa ⁿ l		'Bisa'
Dàgâad _a	Dàgáadìb _a			'Dagaaba'
Dàgban _n ´	Dàgbam _{ma} ´	Dàgban _n ´	Dàgbayŋɔ´	'Dagomba'
Gʊríŋ _a	Gurís	Gurín _n		'Farefare'
Kàmbùŋ _a	Kàmbùmìs	Kàmbùnìr		'Ashanti'
Kusáa	Kusâas	Kusâal	Kusâug _o	'Kusaasi'
Mùa	scćM	ΙcćM	Mòɔg _ɔ	'Mossi'
Nàbìd _a	Nàbìdìb _a	Nàbìr	Nàbìdùg _o	'Nabdema'
ⁿ Wampurig _a ′	ⁿ Wampuris′	ⁿ Wampuril´	ⁿ Wampurug _o ´	'Mamprussi'
Sìmiig _a	Sìmiis	Sìmiil	Sìmiug _o	'Fulani'
Tàlìŋ _a	Tàlìs	Tàlìn _n		'Tallensi'
Yàaŋ _a	Yàans/Yàamìs	Yàan _n		'Yansi'
	or Y àam _{ma}			
Yarıg _a ′	Yarıs'	Yat´		'Yarsi'
Zàŋgbὲog _ɔ	Zàŋgbὲεd	Zàŋgbὲεl		'Hausa'

Barıs´ means 'Bisa', not just Bareka; Bìm_{ma} 'Moba', not just Bemba (W.)
Note also Mɔr´ Pl Mɔ́ɔm_{ma} 'Muslim'; Nàsaara Pl Nàsàar-nàm_a/Nàsàa-nàm_a
'European', Nàsaal 'English' (Arabic *Naṣārá* 'Christians'); Tùon_n 'Toende', Tùonnìr
'Toende dialect', Àgɔ̀l_l 'Agolle'/'Agolle dialect': Ò pi̯àn'ad Àgɔ̀l. 'She speaks Agolle.'

Clan Sg/Pl		Place	
Gòɔga	Gòɔs	Gɔ̀ɔgɔ	
	Gὺm-dὶm _a	Gùm _n	
Kùtan _n	Kùtam _{ma} ´	Kùtaṇŋɔ´	W's clan
Nàbìd _a	Nàbìdìb _a	Nàbìdùg _o	
Sà'-dàbùa	Sà'-dàbùos -dàbùob _a	Sà'-dàbɔ̀ɔgɔ	
	Nà'-dàm _{ma}	Nà'-dàນຼ໗ _ວ	
Wìida	Wìid-nàm _a	Wìidùg _ɔ	
Zùa	Zùos		'Zoose'

Subclans: Zuà-sabılís 'Black Zoose', Zuà-wìiba/-wìis 'Red Zoose.' The clan Nàbìdìba is distinct from the Nabdema ethnic group.

Most place names have transparent meanings, e.g.

Àgòl _l	'Agolle'	cf àgɔ́lı 'upwards'
Bàs-yɔn _n ´	'Basyonde'	"abandon sacks" (explanation unknown)
Bì-nà'ab _a	'Binaba'	"prince"
Bòk _o	'Bawku'	"pit"
Bugur	'Bugri'	"home of a win _n "
Dènòg _a	'Denugu'	cf Mooré <i>réongo</i> 'cattle enclosure'
Gàarù	'Garu'	Hausa <i>gàaruu</i> 'town/compound wall'
Kòl-ta'amís	'Kultamse'	"Andira inermis" Pl
		"stone"
Kugur'	'Kugri'	
Kυk _a ′	'Koka'	"mahogany tree"
Kùkpàrìg _a	'Kokpariga'	"palm tree"
Kùlùgúŋ _ɔ	'Kulungungu'	Bisa kuurgongu 'crooked shea'
Mì'isìg _a	'Missiga'	from English "mission"
Muà'-nɔɔr´	'Mogonori'	"lakeside"
Pùlìmà Kû'om	'Pulimakom'	"cogongrass water"
Pusig _a ′	'Pusiga'	"tamarind"
Sa-bíl _a	'Zebilla'	cf Farefare <i>sáagá</i> (kind of grass)
Sa-píelìg _a	'Sapeliga'	"Isoberlinia doka"
Tèmpáan _n	'Tempane'	"new villages"
Til _l ′	'Tilli'	"tree trunk" (Hasiyatu Abubakari, p.c.)
Tùon _n	'Toende'	"West"
Wìdaan _a	'Widana'	wìd-daana 'horse-owner'
		(title of a chief's "linguist")
Wìdì- ⁿ yá'aŋ _a	'Woriyanga'	wìd-nyá'aŋa 'mare'
Wìid-nà'ab _a	'Widinaba'	"chief of the Widnama clan"

For 'north, east, south, west', W has respectively Barug₂´ 'Bisa country', "Yá'aŋa 'behind', Zwoya 'hills' (i.e. the Gambaga Escarpment) and Tùonn 'in front'; B3 has ya-datiun 'your right', ya-nya'an, ya-dagɔbug 'your left', ya-tuona.

Places outside the Kusaasi area generally do not have Kusaal names (but Saŋkâans 'Cinkansé' in Burkina Faso.) 'Accra' is Aŋkara, from Twi.

The White Volta is simply koluga 'river.'

Proper names of times include names of festivals like Samán-píer (traditional) 'New Year' and of weekdays, found always as predeterminers of daar 'day': Àláasìd Sunday', Àtínì 'Monday', Àtàláatà 'Tuesday', Àlárìbà 'Wednesday', Àlàmíisì 'Thursday', Àrzúmà/Àzúmà 'Friday', Àsíbìtì 'Saturday.' The traditional three-day market cycle differs between villages, and older speakers count in days, not weeks.

8.4 Kinship terms

Kinship terms usually occur with predeterminers, but this is not obligatory: o da ka' saam bee maa Est 2:7 'she had no father or mother.' Several basic terms do not distinguish sex. Terms for same-sex siblings, but not opposite-sex, mark seniority. Among cousins, seniority follows parents' seniority; among wives, marriage order.

```
bier'
                                           senior same-sex sibling/cousin
pitú
                                           junior same-sex sibling/cousin
tav<sup>n</sup>′
                                           opposite-sex sibling/cousin
sàam<sub>ma</sub> (less formally, ba'')
                                           father
                                           father's elder brother
sàam-kpeenm
sàam-pita'
                                           father's younger brother
pùgùdìba
                                           father's sister
mà
                                           mother (mà náma mother's co-wives)
                                           mother's elder sister/senior co-wife
mà-kpεε<sup>n</sup>m
mà-bila or mà-pita
                                           mother's younger sister/junior co-wife
                                           mother's brother
ánsìba
biig<sub>a</sub> (♂ dàkɔ̀ɔʰr, ♀ puà'-yùa)
                                           child; brother's child; child's spouse
a<sup>n</sup>síŋa
                                           man's sister's child
yáab<sub>a</sub> (σ' yaa-dáy, ♀ -puá')
                                           grandparent/ancestor
yáaŋa
                                           grandchild/descendant
puà'-εlίŋa
                                           fiancée
yi-puá' or pua'
                                           wife; brother's wife
dìem<sub>ma</sub> (♂ dìem-day, ♀ -puak<sub>a</sub>)
                                           wife's parent
dàkiig<sub>a</sub> (♂ dàkì-day, ♀ -puak<sub>a</sub>)
                                           wife's sibling/sister's husband
dàkì-tùa
                                           wife's sister's husband
sıda
                                           husband
dàyáam<sub>ma</sub> (σ' dàyaam-dáy, Q -puák<sub>a</sub>) husband's parent
sìd-kpεε<sup>n</sup>m
                                           husband's elder brother
sìd-bila
                                           husband's younger brother
                                           husband's sister
sìd-puaka
                                           co-wife; husband's brother's wife
nìn-taa
```

 $Diem_{ma}$ is used in polite address by a person of either sex to an unrelated person of opposite sex and similar or greater age.

Siblings-in-law have a traditional joking relationship; at Bùgúm-tɔɔʰr, the Fire Festival, one throws eggs at one's "playmates." Whole ethnic groups are held to stand in this relationship to one another.

8.5 Quantifiers

Quantifiers are either mass or count: mass quantifiers include bèdògv´ 'a lot', pamm LF pamnέ 'a lot', fiiⁿ 'a little (liquid)', bi'elá 'a little', wυυ 'all', wυsa 'all'; count quantifiers include bablga 'many', kallga 'few', faan 'every', zan'a 'every', kàma 'every', kàm zan'a 'every' and numerals. Count quantifiers are ungrammatical with a mass noun: nidib bέdògυ or nidib bábìga 'a lot of/many people'; kù'om bέdògυ 'a lot of water'; but not *kù'om bábìga.

Quantifiers are typically postdependents, but may be heads (with nama Pls.) After dependent NPs, they are partitive. Dependent pronouns may follow quantifiers.

Bὲdùgu/pamm ké na. Bèdùgu la ké na. Àyí ké na. Àyí la ké na. nidib lá àyí màliak-nám túsà piiga nám

'The crowd has come.' 'Two have come.' 'The two have come.' 'two of the people' 'tens of thousands of angels'

nidib bedego bama nwa nidib bédògo bámma nwá person.Pl much DemP this

'this crowd of people' Mt 15:33 B2

'Many have come.'

8.5.1 Numerals

The numeral quantifiers are

1	yınní	10	piiga	100	kòbìga (LF identical)
2	àyí	20	pisí	200	kòbìsí
3	àtá ⁿ '	30	pis tá ⁿ '	300	kòbìs tán'
4	ànaasí	40	pis naasí	400	kòbìs naasí
5	ànu	50	pis nu		etc
6	àyúobù	60	pis yúobù		
7	àyópòe	70	pis yópòe		
8	àníi	80	pis níi		
9	àwae	90	pis waę		

NP heads precede, taking Sg forms before yınnı, Pl otherwise. Sg is sometimes found for Pl with units of measure: yɔlugá àtán' '600 cedis.' Yınní can also follow a CIF: kug-yínnì or kugur yınní 'one stone.' Piiga/pii and pisí/pis follow CIF dà- 'day' (B3 dab): dabpii nε ayopoi daar 'on the 17th day' Gn 7:11.

The prefix à is the original agreement flexion for rε|aa Pl. It is omitted after nε 'with', and sometimes also after focus-nε´. Bà replaces à after personal pronouns: tì bàtán' 'we three', yà bàyɔ́pɔ́e̯ 'you seven', bà bàyí 'they two.' 'Two' and 'three' also possess the special focused forms àyína´ àtána´ §11.1.

'Thousand' is tusir´: tusá àtán' '3000.' 'Half' is ρυ-sύka Pl ρυ-sύgùs.

Intermediate numerals use nε 'with', e.g. kɔ̀bìs tán' nε pis yúobò nε nu '365.' 11 to 19 have the contracted forms pii nε yιnní, pii nε yí, pii nε tán' ... pii nε waę or pii na yınní, pii na yí ..., e.g.

o nya'andɔlib pii nε yi ò ¬ya'an-dɔ́ll\ùb pii nε yí 3A disciple.Pl ten with two 'his twelve disciples' Mt 26:20

1 to 9 have different forms used in counting, lacking apocope-blocking and using the numeral prefix \grave{n} (the old agreement for $m\epsilon$) instead of \grave{a} :

1 yέoŋ or àdàkón' 6 nyûob 2 'nγί 7 npòe sic 3 ntán' 'nníi 8 4 nnaas 9 nwae 5 continuing piiga, pii ne yí as with quantifiers 'nnu

Àdàkón' can also be used as a quantifier: bύυg àdàkón' 'one goat.' In performing arithmetic the quantifier forms are used:

```
Àyí námá àyí á nε naasí. 'Two twos are four.'
two Pl two be Foc four
```

The only ordinal adjective is dεεη_a 'first.'

'First' can also be expressed by yiigá 'firstly' as a predependent:

```
linɛ da an yiiga dabisir 'That was the first day.' Gn 1:5 lını_ dá àn yiigá dábìsìr.

3I_+ Tns be firstly day
```

Numerals as predependents of daan_a 'owner' produce ordinals: àyí dâan la 'the second one', buugá àtán' dâan la 'the third goat'; 'first' is yiigá dâan. Another way of expressing ordinals is to use relative clauses with pàas/pè'ɛs 'amount to':

```
dàṃ-kànì_ pè'ɛsà àyí la 'the second man' man-Dem_Nz come.to two the
```

```
lìnì_ pàasà àtán' la 'the third one'

DemI Nz come.to three the
```

Multiplicatives answer àbòlá? 'how many-fold?' They are yımmó 'straight away, at once', àbòyí 'twice', àbòtán' 'three times', àbònaasí 'four times', and so on, with apocope-blocking like quantifiers, up to bòpiiga 'ten times.' The prefix bò is the old bɔ| agreement; à is the manner-noun prefix, preceded by ı in liaison, so its attachment to the numbers 2-9 alone is analogical.

Answers to nɔɔrá àlá 'how many times?' may be e.g. nɔɔr yınní 'once', nɔɔrá àtán' or nɔɔrím bùtán' 'three times' etc. This nɔɔr is not 'mouth', but corresponds to Toende nɔ'ɔt 'leg', as in Toende nɔ'ɔt/nɔba atã' 'three times.' (This is a regional idiom: cf Hausa sau 'foot', sàu ukù 'three times.')

Distributives ('two by two' etc) are NPs formed by reduplication:

1	yın yın	10	pii pîig	100	kòbìg kóbìg
2	àyí yí	20	pisí pisí	200	kòbìsí kóbìsí or kòbìs yí yí
3	àtán' tán'	30	pis tán' tán'	300	kòbìs tán' tán'
4	ànaas naas	40	pis naas naas		etc
5	ànu nu	50	pis nu nu	1000	tusir tusir
6	àyûob yûob	60	pis yûob yûob		
7	àyópòe póe	70	pis yópòe póe		
8	àníi níi	80	pis níi níi		
9	àwae wae	90	pis wa <u>e</u> wa <u>e</u>		

Intermediate forms are of the pattern pis nu nε naas naas 'by fifty-fours.'

There may be a predependent NP: dabá àyɔ́pɔ́e pɔ́e 'weekly' ('by sevens of days.')

The adjective yunɔ́ Pl yıná means 'one of a pair', e.g. nu'-yunɔ́ 'one hand';

yımmír Pl yımmá CIF yım- is 'solitary, unique.'

8.6 Predependents

NPs may be preceded, recursively, by dependent NPs; on tone sandhi, see §4.2. Predependents resemble English genitives and complements with "of', with a similar wide range of meanings, dependent on the nature of both head and dependent. CIF predependents are non-referential, functioning as modifiers or as generic arguments to deverbal nouns; free indefinite mass predependents are modifiers; other free NPs are determiners. Determiners precede modifiers, CIFs coming last.

Certain types of head are involved in specialised predependent constructions.

For postpositions see §8.6.1.

If the head is an indefinite/interrogative pronoun, quantifier, or relative clause the construction is partitive; thus nidib la síebà 'certain of the people', nidib lá àyí 'two of the people', yà sɔ' 'someone among you' and e.g.

```
Pa'alimi ti nidiba ayi' nwa fun gaŋ sɔ'.

Pà'alimi_tí nidibá àyí ''wá fún gaŋ sɔ'.

teach.Imp_1P person.Pl two this 2S.Nz choose IdfA

'Tell us which of these two people you have chosen' Acts 1:24
```

Partitive senses are not possible with other head types: e.g. nidib la gígìs must mean 'the dumb ones belonging to the people', not 'among the people' (W.)

 Daan_a 'owner' (Pl dàan-nàm_a) always follows a NP representing a possession or a quality:

```
Zu-wok daan po gangid bugum.

Zù-wok dâan po gáŋld búgúmm_.

tail-long owner Ng step.over.Ipf fire_Ng
'One with a long tail doesn't step over a fire.' §13.2
```

So too e.g. daam dâan 'beer owner', tìeŋ dâan 'bearded man', pɔɔg la dâan 'the owner of the field' Mt 21:40, pù-pìelìm dâan 'upright person'; here even manner nouns can be predeterminers: bugusíga dâan 'softly-softly sort of person' W.

Daan_a follows a CIF in a few set expressions, e.g. yi-dâan_a/yi-sɔ́b_a 'householder' and tèŋ-daan_a 'traditional earth-priest'; cf also anaas-daan 'owner of four [horns]', poi-daan 'owner of seven' G2 p35, where the first element has the form of a counting numeral, with or without the prefix à. Numerals precede daan_a as ordinals §8.5.1.

Before gerunds, free dependents may represent subjects or objects:

```
Nidib la daa gur Zakaria yiib na.

Nidib la daa gur Zakaria yiib na.

person.Pl the Tns watch Zechariah exit.Gd hither

'The people were watching for Zechariah to come out.' Lk 1:21

Ya zan'as pu'ab la kuub nee?

Yà znâ'as pu'ab la kûub nee??

2P refuse woman.Pl the kill.Gd Foc_PQ

'Did you refuse to kill the women?' Nm 31:15
```

Such gerunds may be preceded by generic-argument CIFs, and may be followed by VP adjuncts and final particles:

```
ya antu'a morim koto ni ne taaba la
yà àntuà'-mɔrím kɔ́tù ní nɛ taaba la

2P case-have.Gd court at with each.other the
'your going to law with each other in court' 1 Cor 6:7 B1
```

Deverbal nouns may follow CIFs representing generic arguments or adverbials. Noun-adjective compounds as arguments appear in Sg/Pl form, e.g. fu-z $\acute{\epsilon}$ ndà kùos 'dyed-cloth seller.'

Before agent nouns a CIF usually represents an object if the verb is transitive, but adverbials also appear. Such compounds are freely coined and are generally transparent, but there are many idiomatic set expressions.

nin-kນິນd _a	'murderer'	bὺ-kυυd _a ´	'goat-killer'
bù-za ⁿ l _l ´	'goat-holder'	bù-kùos _a	'goat-seller'
sàlìm-kùos _a	'gold-seller'	da-nûud _a	'beer-drinker'
zim-gbâ ⁿ 'ad _a	'fisher'	tàn-mεεd _a	'builder'
làmpɔ-dî'es _a	'tax collector'	kònb-kım _{na}	'herder, shepherd'
zà'-nɔ-gúr _a	'gatekeeper'	bùl-sigid _a ′	'well-diver'
nɔ-dî'esa	'chief's spokesmar	n' ("command-recei	ver")
puà'-san'am _{ma}	'adulterer' ("wife-s	spoiler")	
ⁿ ya'an-dól _{la}	'disciple' ("after-ac	ccompanier")	
tùon-gat _a	'leader' ("in-front-	passer")	
puà'-la'ad _a	'laugher at womer	n' (ò là'ad pu'ab 'he	laughs at women' W)

Consultants freely produce agent nouns in isolation, and B has, among others, banid 'wise man', faand 'robber', pa'an 'teacher.' However, a preceding CIF is usual; it may be just a corresponding gerund:

màal-maan _{na}	'sacrificer'	zi-zîid _a	'carrier-on-head'
tù'as-tù'as _a	'talker'	zàb-zàb _a	'warrior'
zòt-zot _a	'racer, athlete'	tùm-tum _{na}	'worker'

CIFs occur before deverbal instrument nouns in object or adverbial senses:

```
sià-loodíga 'belt' ("waist-tier")
nin-gótis 'spectacles' ("eye-lookers")
```

CIFs before gerunds may be objects, adverbials or non-agential subjects:

da-nûur 'beer-drinking'

nɔ-lɔ̂ɔr 'fasting' ("mouth-tying")

fu-yêer 'shirt-wearing' (W, nonce-form)

puà'-dur 'marriage' (ò dì pua' 'he's married a wife')
nin-bâanl-zor 'pity' (ò zòto_ nin-báanlìg 'she has pity on him')

mɔ̀-pilı 'grass roof' ("covering with grass")

kùm-vv'vgír 'resurrection' (ò vò'vg kumı n 'he revived from death')

nu'-mɔ́dir 'swelling of the hand'

wìn-liir 'sunset'

suⁿ-sâⁿ'υη₂ 'sorrow' (m̀ suⁿf sâⁿ'am nε 'my heart is spoilt')

Deadjectival abstracts after CIFs behave as if derived from bahuvrihis §8.7.2:

pò-pìelìm 'virtue' (pò-pìel_l 'upright person')
sun-kpî'oŋɔ 'boldness' ("strong-heartedness")
wɪn-tɔ̂ɔgɔ 'ill fortune' ("bitter-fatedness")

With unspecialised heads, free definite and/or count predependents express kinship, body part membership, or ownership. Possessors may be generic.

m biig 'my child'

day la bîig 'the man's child'

day la bí-kàŋa 'this/that child of the man's'

dau la wîef zûur 'the man's horse's tail'

náaf bín'isím 'cow's milk' W buug bín'isím 'goat's milk' W

Nimbɛ'og yir na san'am. 'The house of the wicked will be destroyed.'

Nin-bê'og yír nà san'am. Prv 14:11

person-bad house Irr spoil

CIF predependents are non-referential. With unspecialised heads, they have very general quasi-adjectival senses; idiosyncratic meanings often develop:

'the man's horse-tail' (he may have no horse)

bì-fuug_o´ 'children's shirt' (suitable for children) wab-mɔ́ɔgɒ n 'in bush where there are elephants' W

nàsàa-sìlòg₂ 'aeroplane' ("European hawk") nàsàar-bùgúm 'electricity' ("European fire")

```
zà'-nɔɔr´ 'gate' ("compound-mouth")
mà-biiga 'sibling' ("mother-child")
ba'-bîiga 'half-sibling' ("father-child")
tèŋ-biiga 'native' ("country-child")
```

Except before daan_a and sob_a §8.2, abstract predependents appear as indefinite free forms, and so also do predependents expressing materials:

na'am kúk 'throne' ("chieftaincy chair")
pù'usùg dôog 'temple' ("worship house")
tuligír bún 'heater' ("heating thing")
dugub dút 'cooking pots'

ligidi túumà 'expensive work' (ligidi 'money')

salıma bútin 'golden cup'

salıma nɛ anzúrìfà lâ'ad 'gold and silver goods' fuug dɔ̂ɔg 'tent' ("cloth hut")

dàad bún-nám 'wooden things' (dàad 'pieces of wood')

Unlike CIFs or abstracts, materials as predependents can be antecedents of pronouns: salıma lâ'ad né ò butus 'gold goods and [gold] cups' W. The construction is limited to this sense: kuà'-nwiiga´ 'current', not *kù'om nwîig 'rope made of water.'

For yiigá 'firstly' as a predependent see §8.5.1.

Place NPs may be predependents:

duniya ní nìn-gbiŋ 'earthly body'

kɔlɪgɪ n nɔ´-da˙ug 'crayfish' ("in-the-river cock")

kù'omı_n bún 'water creature'
zugú_n/teŋı_n níf-gbáyn 'upper/lower eyelid'
mɔɔgu_n/yín bún-kɔnbìd 'wild/tame animals'
Bòk dím 'Bawku people'

dàgòbìg níf 'left eye'

Buligin zin zi' koligin yelaa.

```
Bùlìgı_n zîin zı' kɔlıgı_n yélaa_.

pool_at fish Ng.know river_at about_Ng
```

'A fish in a pool doesn't know about the river.' §13.2

So may NPs with yɛlá 'about':

Kusâas kûob nε yir yélà gbàyŋ 'a book about Kusaasi farming and housing' dày-kàŋa la yélà gbàyŋ 'a book about that man' W

8.6.1 Postpositions

Postpositions are NP heads which take predeterminer NPs. Apart from the locative particle §9.7.2.3, they are either nominals, or NPs containing the locative particle. Most have place-adverbial meaning, but some show metaphorical extensions of meaning to time or reason: thus the locative particle appears in the time expressions bɛogv_n 'morning', yiigí_n 'at first' san-sí'e_n la 'at one time, once', and zugɔ´ 'onto' is often used metaphorically as 'on account of' §9.7.2.4.

Yɛlá 'affairs' as a postpostion means 'about'; it often forms objects of verbs of communication etc:

```
Bà yèlo_ man yɛlá wʊsa. 'They told him all about me.'
3P say 3A 1S about all
```

8.7 Postdependents

Dependents follow head nouns in the order adjective(s), quantifier, dependent pronoun, appositive, article or "wà 'this.' Before an adjective or dependent pronoun, a nominal is reduced to a CIF and its number is marked by the dependent.

8.7.1 Adverbials, quantifiers and appositives

Deverbal abstract nouns with predependent subjects may be followed by adverbials §8.6. Adverbials also appear as postdependents of other nouns, following all other postdependents apart from deictics or the article, e.g.

```
on sob á nɛ dú'atà àmɛŋá la 'that one's the real doctor' W
3A ØA be Foc doctor truly the

"wadıs yûum la púugu_n 'months in the year' S
moon.Pl year the inside_at

wabug mɔɔgu_n la 'the elephant in the bush' W
elephant grass_at the
```

Except for yiigá 'firstly', quantifiers as determiners follow the head. CIF heads appear only before yınní 'one' and with dà- 'day' before numerals without prefixes.

Appositives may be personal names or dependent determiners. Appositive dependent determiners *must* appear after heads like quantifiers which cannot form CIFs: yɛltɔɔd atan' bama 'these three plagues' Rev 9:18. Appositive relative clauses may also appear after other heads; unlike other relative clauses, they need not be interpreted as restrictive §10.5.2. Appositives follow any dependent pronouns:

```
dau kaŋa onε ka Wina'am Siig bεε o ni dày-kàŋa ónì kà Wínà'am Sîιg bὲε ò nι man-Dem DemA_Nz and God spirit exist 3A at 'this man in whom God's Spirit is' Gn 41:38
```

Appositive personal names retain the personifier pronoun à:

```
Eenn, o zua Asibigi n kabirid. 'Yes, it's his friend Termite asking entry.' \epsilon^n, ò zuà à Sibigi n kabirid. G2 p12 yes 3A friend Pz termite + ask.entry.Ipf
```

8.7.2 Adjectives and dependent pronouns

Adjectives follow CIF heads, inflecting as Sg/Pl/CIF on behalf of their heads, and dependent demonstrative, indefinite and interrogative pronouns do the same:

ხასg _a	'goat'	buus	'goats'
bù-pìelìg _a	'white goat'	bù-pìelìs	'white goats'
bນໍ-sນ້ໆ _ວ	'good goat'	bù-sùmà	'good goats'
bù-sɔ'	'some goat'	bù-sieba	'some goats'
bὺ-kànὲ_?	'which goat?'		
nid _a ´	'person'	nidib _a ´	'people'
nid _a ´ nin-súŋ _ɔ	'person' 'good person'	nidib _a ´ nin-súmà	'people' 'good people'
-	•	~	
nin-sύŋ _ວ	'good person'	nin-súmà	'good people'
nin-súŋ _ɔ nin-wók _ɔ	'good person' 'tall person'	nin-súmà nin-wâ'ad	'good people' 'tall people'

Another adjective or dependent pronoun can follow a first adjective CIF:

```
bù-pìel-kàŋa´ 'this white goat' bù-pìel-bàmma´ 'these white goats' bù-sùŋ-kàŋa´ 'this good goat' bù-sùŋ-bàmma´ 'these good goats' nin-wók-pìelìga 'white tall person' nin-wók-pìelìs 'white tall people'
```

Cf mam pu'anya'aŋ kudkaŋa mam puá'-nya'aŋ-kúd-kàŋa 'I, this old woman' Gn 18:12.

However, noun-adjective compounds cannot form CIFs for deverbal noun generic complements §8.6; here Sg/Pl forms appear instead:

```
fu-zέ<sup>n</sup>dà kùos 'seller of red (i.e. dyed) cloth' (not *fu-zέ<sup>n</sup>'-kùos<sub>a</sub>)
```

Adjectives do not themselves normally appear as heads, but a subset of adjectives lacking corresponding stative verbs may be used as heads of predicative complements §9.7.1; even there, nin- 'person' (for human reference) or bun- 'thing' (for all non-human reference) are usually supplied as heads, and this is required elsewhere; thus nin-súŋɔ 'good person', bun-vúr 'living creature' etc and e.g.

Dub á nε bun-sún. 'Food is good.' W

food be Foc thing-good

Bυn_n´ 'thing' can make a regular rε|aa plural bυná or pluralise with nàm_a:

Bun námá àlá kà fù "yɛtá_? 'How many things do you see?' S

thing Pl how.many and 2S see.Ipf CQ?

Bunn may also appear with abstract or adverbial predependents:

tuligír bún 'heating thing, heater' = bun-túligír

kù'omı_n bón 'water creature'

Adjective CIFs cannot be heads: 'this good one' has to be bun-súŋ-kàn. Ipf verbal adjective forms with no preceding CIF are synonymous with agent nouns §6.1.1, so the presence of bun- distiguishes different meanings in e.g.

bun-kúudìr 'thing to do with killing'

kvvdír 'killer'

Noun-adjective compounds can develop specialised lexical meanings, e.g.

tì-sabılím a traditional remedy ("black medicine")

gòn'-sabılíga 'Acacia hockii' ("black thorn")

bun-gína 'short fellow' (jocular)

bun-kúdùg, 'old man' (the standard expression)

The adjective bil_a 'small' seems never simply to express small size, but either 'junior, younger' (cf kinship terms §8.4, personal names §8.3 and e.g. bà-bil_a 'puppy' beside baa 'dog') or lexicalised meanings like "smaller constituent part", as in nu'-bíl_a 'finger' beside $n\hat{u}'ug_{D}$ 'hand.'

Some isolated set expressions show traces of the old agreement system; thus the dependents do not regularly appear with the class suffixes seen in e.g.

```
daa-sî'er 'perhaps' (daar 'day', si'a 'some')
dàbìs-si'er 'some day' (dàbısìr 'day')
```

yɛl-s \acute{u} m' blessing' (yɛl $_{l}$ ' affair', s \acute{u} n $_{0}$ 'good') pua'-paal $_{a}$ ' 'bride' (pua' 'wife', paal \acute{u} ga 'new')

dàpaala 'bachelor, son' (day 'man')

For W (not D) and in many texts, $m\epsilon$ nouns require adjectives in $m\epsilon$, as does bunn 'thing' when used in an abstract sense:

da-páalim 'new beer'; W rejected *da-pâal_l or *da-páalig_a
tì-sabılím 'black medicine', a specific traditional remedy
tì-vunním 'oral medication' ("swallowing medicine")

tì-kuudím 'poison' ("killing medicine")

kpan-sɔʻndim 'anointing oil' (kpaanm´ 'oil, grease')

bun-bɔɔdim 'desirable thing' (of nɔ̀ŋilím 'love' in 1 Cor 14:1)

but bun-bɔ́ɔdir "desirable thing" (G1 p17: of a sheep)

bun-nyέtìm 'the visible world' but bun-nyétìr 'a visible object'

Adjective Sg forms may show apocope-blocking as a downtoner, both in attributive and predicative uses (all examples from K):

Lì à nɛ wîug. 'It's red.'
Lì à nɛ wíugʊ. 'It's reddish.'

fu-wíugu la 'the reddish shirt'
Lì à nε fu-píelìga. 'It's a whitish shirt.'
Lì à nε fu-píelìga la. 'It's the whitish shirt.'

Lì à ne tita'arı. 'It's biggish.'

Adjectives and their derived 1Vbs may be immediately followed by intensifier ideophones, specific to particular adjectives and the corresponding verbs (all W):

Lì à ne píelìg fáss fáss.

Lì à ne sabilíg zím zím.

Lì à ne zín'a wím wím.

'It's very white.'

'It's deep black.'

'It's deep red.'

M˙ nyế fu-zín'a wím wím.
Fu-zín'a wím wím bế.
There's a deep red shirt.'
M˙ bɔɔd fu-zín'a wím wím la.
'I want the deep red shirt.'

Ò wà'am tólìlìlì.'She's very tall.'Ò gìm nε tírìgà.'She's very short.'

Not even all gradable adjectives/quality verbs have intensifiers; W could supply none for e.g. $sù\eta_{D}$ 'good', $b\epsilon'\epsilon d$ 'bad', $zùlù\eta_{D}$ 'deep', $ma'asig_{a}$ 'damp.'

Noun-adjective compounds may be used as bahuvrihi adjectives:

'It's a dead hand.' Lì à nε nu'-kpíilóη. Biig la á nε nu'-kpíilúη. 'The child is dead-handed.' Ò à nε bí-nu'-kpíilúη. 'He's a dead-handed child.' kùg-nob-wók_o 'long-legged stool' Kùg-kàna á nε nɔb-wók. 'This stool is long-legged.' W nob-gína 'short-legged' zug-máuk₂ 'crushed-headed' zù-wɔk_ɔ′ 'long-tailed' zu-pέεlùg₂ 'bald' 'righteous' pù-pìel tùb-yɪʊ̯ŋɔ´ 'one-eared'

The adjective has Pl form, in agreement with the noun immediately preceding it, rather than the Sg head of the whole NP, in e.g.

bì-tùb-kpida 'deaf child'
bì-tùb-kpida náma or bì-tùb-kpidis 'deaf children'
bì-tùb-lud 'child/children with blocked ears'

Human-reference nouns may be used as adjectives after human-reference heads: bù-sáaŋa 'strange goat', bì-sáaŋa 'strange child', but also bì-sáaŋa 'strange child.' Similarly with

bì-daṇ/dàṇ-biiga 'male child'
bì-pua' 'female child'
bì-kpu'um 'dead child'
bì-gìka 'dumb child'
bì-wàbìr 'lame child'
bì-balɛrvgɔ´ 'ugly child'

bì-nà'ab_a/nà'-biig_a 'prince/princess' nàsàa-biig_a 'European child'

bi-púŋ-yàmmùga/yàm-bi-púŋa 'slave girl'

Agent nouns cannot be used like this after CIFs which could be construed as objects: bì-sin_{na}´ 'silent child', puà'-zàansa 'woman prone to dreaming' K, but puà'-kvvda´ can only mean 'killer of women', puà'-la'ada only 'laugher at women' (W.)

8.7.3 Deictics and the article

The deictic particles la´ and ¬wà mean 'that' and 'this.' In this use, they are not liaison enclitics, in contrast with the homophonous focusing deictics §11.3; wàna´ 'this here' mostly appears as a focusing deictic.

The deictics are NP-final: they may be followed only by VP-final particles which form part of nominalised clauses §9.6. Unlike la´, ¬wà can stand alone as a NP:

 n Wà á nɛ biig. 'This is a child.' W; tones sic.

La´ is normally used as a definite article, marking referents as specific and already established. It is not used with proper names, pronouns, vocatives, NPs after personaliser à, abstractions, or familiar background entities:

Nonilim pu naada.

Nonilim pu naada.

Nonilim pu naada.

I Cor 13:8

I Cor 13:8

Winnig lí ya.

The sun has set.'

Heads before demonstratives are definite; here, following deictic particles distinguish far from near §8.2.

Predependents with la´ make heads definite unless an indefinite pronoun follows: nà'ab la bîig 'the chief's child'; after such heads, la´ is deictic. However, personal pronouns or proper names as predependents do not make heads definite, and la´ appears as usual to mark referents as already established:

M biig bé.

'I have a child.' W

1S child exist

M biig ka'e_.

'I've no child.' W

1S child Ng.exist_Ng

M biig la ka'e_.

'My child's not there.' W

1S child the Ng.exist_Ng

Dau da be mori o biribing

Dau dá bè_ morí ò bi-díbìŋ

man Tns exist + have 3A boy

On daa an pu'asadir la ka o kul sidi paae yuma ayopoi ka o sid la kpi.

```
Ón daa án puá'-sadır lá kà ò kul sıdı_ pae yúmà àyɔ́pɔ́e kà ò sıd la kpí.

3A.Nz Tns be girl the and 3A marry husband_+ reach year.Pl seven and 3A husband the die

'She had married a husband when she was a girl, and after seven years her husband died.' Lk 2:36
```

NPs without la' are indefinite if they could have taken la' in the meaning of a definite article.

Indefinite pronouns mark the indefinite-specific sense 'some/another':

```
Na'-síebà ɔ´nbìd nε mɔɔd. 'Some cows are eating grass.' cow-IdfP chew.Ipf Foc grass.Pl
```

They are also used to mark a head as indefinite after a predependent with la´: nà'ab la bí-sɔ' 'a child of the chief's.'

Entities new to the discourse may be introduced by NPs with or without indefinite pronouns:

```
Pu'a sɔ' da bε mɔr o bipuŋ ka kikirig dɔl o.

Pụà'-sɔ' dá bε˙ mɔr ò bi-púŋ kà kikirig dɔlló˙.

woman-IdfA Tns exist_+ have 3A girl and fairy accompany _3A

'There was a woman whose daughter was oppressed by a devil.' Mk 7:25
```

```
Dau da be mori o po'a yimmir. 'There was a man who had one wife.' Dau dá bè_ morí ò puà'-yımmír. G2 p26 man Tns exist + have 3A wife-single
```

Indefinite NPs without indefinite pronouns are otherwise generic or non-referential, as with negative-bound nouns or the object of $\grave{a} e^n_{ya}$ 'be something' used ascriptively:

```
Ò nòŋìd ka'e_. 'Nobody loves him.' W
3A lover Ng.exist_Ng
Ò à nε biig. 'She is a child.'
3A be Foc child
```

9 Verb phrases

A verb phrase (VP) consists of a verb with its right-bound particles and enclitics, followed by object NPs, adjunct NPs, object/adjunct clauses and final particles. Focus-ne´ may be inserted at various points, after any enclitics §11.1.

Aspect is marked by verb flexion. Tense markers precede mood markers before the verb; mood markers vary with polarity. The irrealis mood expresses future time. Certain preverbal adjuncts may appear in fixed positions among tense/mood markers. There may be one enclitic object pronoun; if present, the discontinuous-past enclitic n and 2P2 ya precede object pronouns. Main and content clause VPs show distinctive tonal markers, a separate 2Vb imperative flexion and a particle ya after VP-final Pfs. Verbs show no agreement for person or number.

9.1 Aspect

2Vbs inflect for aspect, suffixing ϵ for perfective and da for imperfective (for the suffix ma see §9.5); 1Vbs are Ipf. The focus particle $n\epsilon$ has temporal uses which interact with aspect, in effect marking Pfs as stative and Ipfs as progressive §11.1.

Perfective is the unmarked aspect. In absolute clauses, it implies priority to the main clause §10.5.1; in catenation, Pfs must follow event order §10.4; narrative uses Pfs in series. However, Pf is also the usual aspect for conditional protases and future events, and may be present tense; with most verbs this expresses a completed event or process with time unspecified, implying current relevance (a "present perfect"):

```
Saa ní ya.

'It has rained.' W: "Perhaps the grass is

rain rain NSb

still wet, or I am explaining that the area
is not a desert." (Saa daa ní 'It rained.')
```

It may express events regarded as coextensive with the moment of utterance, as with performatives or with verbs of cognition/perception:

```
Fò wóm ya kóυ_?
2S hear NSb or_PQ
M siák ya.
1S agree NSb
I agree.'
I'I m off home now.' (taking one's leave)
N go.home NSb
I'I can see three fingers.'
1S see finger.Pl three
```

Verbs expressing a change of state in the subject can use Pf to express the resulting state; temporal-focus $n\epsilon$ follows if syntactically permitted §11.1. Most such verbs are intransitive, but e.g. "dressing" verbs also imply subject state change:

```
Lì bòdìg nɛ.

'It's lost.'

(Lì bòdìg ya 'It's got lost.')

Myé nɛ fuug.

'I'm wearing a shirt.'

(Myé fuug 'I've put a shirt on.')
```

Similarly ὁ kpì nε 'he's dead'; m̀ gến nε 'I'm tired'; bà kòdòg nε 'they're old'; lì pὲ'εl nε 'it's full'; lì yò nε 'it's closed'; m̀ bóg nε 'I'm drunk'; ò lὲr nε 'he's ugly' W; lì sòbìg nε 'it's black' W, and likewise with many other verbs.

Pfs are used when proverbs take the form of mini-anecdotes:

```
Kukoma da zab taaba ason'e bi'ela yela.

Kùkòmà dá zàb taabá à sɔn'e bi'elá yɛlà.

leper.Pl Tns fight each.other Pz surpass slightly about

'Lepers once fought each other about who was a bit better.' §13.2
```

Imperfective may express a propensity, multiple events, a quality, or a relationship; with temporal focus §11.1 it may have a progressive sense, or express a propensity or multiple events over a limited time:

```
Niigí à bìd mood.
                                           'Cows eat grass.'
cow.Pl chew.Ipf grass.Pl
Na'-síebà ó¹bìd nε mɔɔd.
                                          'Some cows are eating grass.'
cow-IdfP
         chew.Ipf Foc grass.Pl
Μ̀ zín'i.
                                          'I sit.'
M zín'i nε.
                                          'I'm sitting.'
                                          'The door closes.' (i.e. can be closed)
Kùlìn la yôɔd.
Kùlìη la yôɔd nε.
                                          'The door is closing.'
Nidib kpîid nε.
                                           'People are dying.'
                                           'I have a wife.'
M mór pua'.
```

With quality or relationship verbs, and in Ipf middle constructions, temporal focus implies a temporary state or propensity, and is only felicitous if the clause contains a time adverbial, or at least a past tense marker §11.1.

9.2 Tense

Tense is expressed by mutually exclusive particles in the first slot of the VP:

dàa	day after tomorrow	sàa	tomorrow
Ø	present/implicit		
pà'	earlier today	sà	yesterday
daa	before yesterday	dà	before the time of daa

In addition, the **discontinuous-past** enclitic n can mark an earlier-today past:

```
M 5°bldı_n summa. 'I was eating groundnuts.' W
1S chew.lpf DP groundnut.Pl
```

This implies "but now I'm not." Such "discontinuous" pasts often acquire a hypothetical or counterfactual sense (Plungian/van der Auwera 2006), which is much the commonest use of the Kusaal form §10.3.3.

The day begins at sunrise:

```
Fù sá gbìs wɛlá_? 'How did you sleep last night?'
2S Tns sleep how_CQ
```

Dà denotes time prior to daa:

```
Ka Yesu daa keŋ Nazaret ban da ugus o teŋ si'a la.

Kà Yesu daa keŋ Nazaret bán dà ugusó_ téŋ-si'a la.

and Jesus Tns go Nazareth 3P.Nz Tns raise_3A land-Idf the

'Jesus went to Nazareth, where he had been raised.' Lk 4:16 B2
```

However, daa can be used for even remote past. Parallel B passages may show daa or dà, e.g. O da/daa bodigne Lk 15:24/32 B2 'He was lost.' B1/2 use daa for the usual past marker in narrative, with da mostly for "pluperfects", parentheses, background, and quoted parables or historical accounts (e.g. Acts 7:1-53 B2), but B3 and G2 use da as the default past marker.

Future tense markers occur only with the irrealis or in purpose clauses.

There are two periphrastic future constructions for "to be about to": bɔɔda 'want' + gerund, and subject (always animate) + purpose clause:

```
Yv'vŋ bɔɔd gaadvg
Yú'vŋ bɔ̂ɔd gáadvg
night want.Ipf pass.Gd
```

'Night is about to pass' Rom 13:12

```
M yé m kua summa.
```

'I'm going to hoe groundnuts.'

1S that 1S hoe groundnut.Pl

Tense markers are often absent, but their omission is not arbitrary. Outside of already-established past contexts, indicative-mood clauses containing neither time adverbials nor tense particles are interpreted as present, regardless of aspect:

Nidib kpîid. 'People die.' Ò mòr pua'. 'He has a wife.'

Ò kpì ya. 'She's died.' ("present perfect")

Tense markers may be omitted with irrealis mood, past n, or time adverbials:

Fù [sáa] nà kul. 'You'll go home (tomorrow.)'

M [pá'] ɔnbldı n summa. 'I was eating groundnuts earlier today.'

M [sá] "wè' búŋ la sû'os. 'I hit the donkey yesterday.'

9.2.1 Narrative

Narrative favours long sequences of clauses coordinated with kà and lacking tense marking. In B narrative, main clauses without kà or time adverbials are usually tense-marked (> 80% in B2), though informal narrative (e.g. §13.1) lacks tense-marking in non-initial clauses without kà more often (cf English informal historic presents, CGEL p130.) On the other hand, clauses with kà contain tense markers only for scene-setting or for signalling disruptions in the narrative flow like flashbacks, asides or descriptions. Àmáa 'but' §10.8 does not affect tense marking.

Ka ba paae mu'ar gbεog linε an Gadara dim teŋin la, ka dapa ayi' banε ka kikiris dɔlli ba yi yaadin naa tʊ'ʊs o. Ban **da** tɔi hali la zug ka nidib **da** zɔt dabiem nε ban na dɔlli anina gat. Ka ba tans ye,

Kà bà pae mô'ar gbêog lìnì àn Gadara dím tènin la, kà dapá àyí bánì kà and 3P reach lake shore DemI_Nz be Gadara ØP land_at the and man.Pl two DemP_Nz and kìkiris dɔllí_ba yi yáadın naa to'osó. Bán dà toe halí la zúg fairy.Pl accompany 3P_+ exit grave.Pl_at hither_+ meet_3A 3P.Nz Tns be.bitter until the on kà nidib dá zòt dábiem nɛ bán nà dɔllí ànína gát. Kà bà táns ye, and person.Pl Tns fear.Ipf fear with 3P.Nz Irr accompany there_+ pass.Ipf and 3P shout that 'They reached the lakeside at Gadara, and two men afflicted by demons came out from the tombs to meet him. They were so fierce that people feared to go past there. They shouted ...' Mt 8:28-29

Amaa ba **da** zot o nε dabiem, ban **da** pυ niŋ o yadda ye o sid anε nya'andol la zug. Amaa ka Barnabas zaŋ Saul n mor o keŋ ...

```
Àmáa bà dà zòto_ nɛ dábiem, bán dà pv níŋò_ yádda yé ò sìd but 3P Tns fear.Ipf_3A Foc fear 3P.Nz Tns Ng do_3A trust that 3A truly à nɛ "ya'an-dól la zúg. Àmáa kà Barnabas záŋ Saul n mɔró__ keŋ ... be Foc disciple the on but and Barnabas take Saul + have_3A_+ 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
```

Among dozens of clauses kà X duá' Y 'X begat Y' in Mt 1.1ff B2:

```
Ka David du'a Solomon. O ma da ane Uria po'a. Ka Solomon du'a ...

Kà David duá' Solomon. Ò mà dá à nε Uria puá'. Kà Solomon duá' ...

and David beget Solomon 3A mother Tns be Foc Uriah wife and Solomon beget

'David begat Solomon. His mother was Uriah's wife. Solomon begat ...'
```

In contrast, the genealogy in Lk 3:23ff B2 moves backwards in time and has dozens of consecutive examples of ka X saam da ane Y 'X's father was Y.' Long series of coordinated "asides" may drop tense marking: in this passage B3 only has tense marking at the beginning of paragraphs.

As tense marking is affected by whether clauses are introduced by kà, this not just a matter of discourse pragmatics. Moreover, consultants always take Pfs in isolated kà-clauses without tense marking as expressing events, with any focus-nɛ´ as constituent focus, never temporal §11.1, but this limitation does not apply in clauses with tense marking, which show the same range of possibilities as clauses without kà:

	Kà bà dá kừdìg nε. and 3P Tns get.old Foc	'And they were old.'
	Bà kùdìg nε.	'They're old.'
but	Kà bà kύdìg nε.	D explained "You're saying they're old, when he promised to give you new ones"
	Kà lì daa bódìg nε. and 3I Tns get.lost Foc	'And it was lost.'
	Lì bòdìg nε.	'It's lost.'
but	Kà lì bódìg nε.	Rejected by W; explained by D as denying

"Someone hid it."

The absence of NSb marking after coordinating kà §9.5 suggests that kà was once always cosubordinating, though this is not the case synchronically §10.4; cf Evans 2007 on the conventionalised main-clause use of what appear to be formally subordinate clauses, and the use of nɛ 'with' for 'and' in coordinating NPs §8.1. Clauses continuing a narrative thread have cosubordinate features in many languages, including e.g. Fula (Arnott 1970 p326), Wolof (Robert 2010, 1.2.4), Lumun (Smits 2017 p652), Hausa (Jaggar 2001 p162) and the Algonquian language Meskwaki (Goddard 2023 p412.)

Tense-unmarked Ipfs can appear in narrative to express multiple events:

Interruptions in the narrative may contain clauses coordinated with kà; tense marking is not repeated after the first, but such clauses can have any aspect:

Ba da pu mor biiga, bozugo Elizabet da ane kundu'ar, ka babayi la wusa me kudigne.

```
Bà dà pu mɔr biiga_, bɔ zúgɔ Elizabet dá à nɛ kúndù'ar

3P Tns Ng have child_Ng because Elizabeth Tns be Foc barren.woman
kà bà bàyí la wúsà mɛ kúdìg nɛ.

and 3P two the all also get.old Foc

'They had no child, as Elizabeth was barren and both were old.' Lk 1:7 B2
```

Within a series of clauses continuing a narrative, subordinate clauses (including nominalised clauses) mark tense relative to the timeline:

```
kà dau tami o po'a la sa yel o si'el la
kà dau támmì ò pua' lá_ sà yèlò_si'el la
and man forget 3A wife the_Nz Tns say_3A Idfl the
'but the man forgot what his wife had told him the previous day' G2 p26
```

```
Ban bood ye ba saa di Kum Maliak Gaadug maluŋ diib la.
Ban bôod yé bà sáa dì Kum Máliak Gáadùg málùŋ dìıb la.
3P want.Ipf that 3P Tns eat death angel pass.Gd custom food the
'They wanted to eat the Passover meal the next day.' Jn 18:28
```

Absolute-clause adjuncts §10.5.1 usually leave main-clause tense marking unaffected (88% in Mk, Lk, Acts 1-14 B1); less often, the absolute clause acts as a time adverbial, licensing dropping of tense marking in the main clause:

```
Ban da nyɛɛ o la, ba da zaŋ o taaba pistan' tis o.

Bán dà nyɛo_ la, bà dà zàŋ ò taaba pis tán'_ tísò_.

3P.Nz Tns see_3A the 3P Tns take 3A each.other thirty_+ give_3A

'When they saw him, they brought thirty companions to him.' Jgs 14:11

Ka ban da paae Haran tempuugin la ba da zin'in anina.

Kà bán dà pae Haran téŋ-puugú_n la, bà dà zìn'in ànína.

and 3P.Nz Tns reach Haran town_at the 3P Tns sit.down there

'When they reached Haran, they stopped there.' Gn 11:31
```

Ban da ku naaf la naae la, ba mor biig la kɛn Eli san'an na.
Bán dà ku náaf la_ nae la, bà mor biig la kɛn Eli sân'an na.
3P.Nz Tns kill cow the_+ finish the 3P have child the come Eli by hither
'When they had killed the cow, they brought the child to Eli.' 1 Sm 1:25

However, when adjunct absolute clauses are preposed with kà §11.4, that kà behaves as if it continues a narrative, and the main clause lacks tense marking whether or not kà also precedes the absolute clause (97% in Mk, Lk, Acts 1-14 B1):

```
Ban da bεε ani nuud daam la, ka Na'ab la maligim yεl Esta ye,
Bán dà bέε àní_ nuud daam la, kà Nà'ab la maligim yέl Esta ye,
3P.Nz Tns exist there_+ drink.Ipf beer the and king the again say Esther that
'As they were drinking wine, the king again said to Esther ...' Est 5:6
```

```
Ka ban da sɔnsi naae la ka Zugsɔb la gaad,

Kà bán dà sɔʰsɪ_ nae la, kà Zug-sɔ́b la gâad,

and 3P.Nz Tns converse_+ finish the and Lord the pass

'When they had finished conversing, the Lord went away,' Gn 18:33
```

This reflects the quasi-coordinating nature of the preposing construction with absolute clauses, also seen in the dropping of subject pronouns after the preposing kà when they refer the subject of a preposed absolute clause §10.1, as in e.g.

```
On da paae David san'an na la ka igin teŋin na'as o.

Ón dà pae David sân'an na la, kà ígìn teŋun ná'asò.

3A.Nz Tns reach David by hither the and kneel.down ground_at_+ honour_3A

'When he reached David, he knelt down to honour him.' 2 Sm 1:2
```

9.3 Mood and negation

There are three moods: indicative, imperative and irrealis. Mood-marking particles also express polarity. Imperative marking involves a flexion which also marks NSb. Negative polarity induces a clause-final negative enclitic §4.3 §9.6. Only VPs can be negated; constituent negation requires subordinate clauses, e.g. banɛ ka' Kristo nidib la sunir 'the help of non-Christians' 3 Jn 1:7.

Indicative is the unmarked mood. It is negated by pv (S bv, as in Toende.) It is used for statements and questions about present, past and timeless events and states, and immediate future in periphrastic constructions §9.2.

```
Ò pυ ʰwέ' bùŋ láa_. 'He hasn't hit the donkey.'
```

Imperative mood is negated by da. It is used in commands, prohibitions and purpose clauses, and after imperatives in catenation. 2Vbs with NSb tone overlay take the flexion ma; positive imperative and indicative forms are otherwise identical. Even 1Vbs appear in direct commands: Vve! 'Live!' Ez 16:6. See §10.3.2 on 2P2 ya.

```
"Wè'εm búŋ la!
                                        'Hit the donkey!'
hit.Imp donkey the
Da ¬wέ' bùη láa!
                                        'Don't hit the donkey!'
Ng.Imp hit donkey the_Ng
Yèlìmo_ yé ò da
                                        'Tell him not to look.'
                     gose.
say.Imp_3A that 3A Ng.Imp look_Ng
Kèm
       na
                                        'Come and look!'
              gos!
come.Imp hither_+ look
Kònsìm!
                                        'Cough!'
                                        'Don't cough!' (D, to a patient who just
Da
      kónsε!
                                         did cough, during an eye operation)
Ng.Imp cough Ng
      kónsida!
                                        'Don't cough!' (D, before the operation,
Da
                                         explaining what to avoid throughout)
Ng.Imp cough.Ipf_Ng
                                        'Come (Pl) with me!'
Dòllı ní m!
Bέε ànína!
                                        'Be (i.e. stay) there!' S
```

Temporal ne´ cannot appear, but àlá 'thus' here conveys a continuous sense:

Dìmí àlá! 'Carry on eating!'

Dìgı_ní àlá! 'Keep on (Pl) lying down.'

Aa_ní àlá baaⁿlímm! 'Be (Pl) quiet!'

Irrealis mood expresses future *time*, using the markers nà (positive), kò (negative); any directly following preverbal adjunct or TP A verb changes all its tones to M. With past tense markers it may be contrary-to-fact or future-in-the-past.

Ò nà "wε' búŋ la. 'He'll hit the donkey.'

3A Irr hit donkey the

Ò kờ ¬wε' búŋ láa . 'He won't hit the donkey.'

3A Ng.Irr hit donkey the_Ng

Ò daa ná ¬wε' búŋ la. 'He would have hit the donkey.'

3A Tns Irr hit donkey the (but didn't, W)

one da na ti zam o 'who was going to betray him' In 6:71

ònì_ dà nà tư zámmò_.

DemA_Nz Tns Irr next betray_3A

9.3.1 Negative verbs

Kae' (variant LF kà'asìgɛ) replaces the *indicative* negative of bè 'exist' always, of àēnya 'be something' except in contrasts, and often also of mor_a 'have.'

Ò biig ká'asìgɛ/ka'e_. 'She has no child.'

3A child Ng.exist_Ng

Ò daa ka' pa'anna . 'He was not a teacher.'

3A Tns Ng,be teacher Ng

Ò mòr biig, àmáa day la ka'e_. 'She has a child but the man hasn't.'

3A have child but man the Ng.have_Ng

but Ka li ku an ninsaal mɛɛbɔ. 'It will not be a human being's building.'

Kà lì kύ aⁿ nin-sâal mέεbɔ_. Mk 14:58

and 3I Ng.Irr be human build.Gd_Ng

Ζι' (variant LF zι'ιsίgε) 'not know' usually replaces the indicative pυ mi':

```
Bùŋ-ban'ad zı' ye teŋ túlla_.

donkey-rider Ng.know that ground be.hot_Ng
'A donkey-rider doesn't know the ground is hot.' §13.2
```

but e.g. ka o sid la pu mii 'but her husband did not know' G2 p26.

Mit_a (B3 mid) is a defective imperative-only 1Vb. Before a catenative it means 'let not ...' §10.4.2; with a NP object it means 'beware', and is not a negative verb:

```
Miti ziri nodi'esidib bane kene ya sa'an na la.

Miti_ ziri nò-di'esidib báni_ kenni yà san'an na la.

beware_2P2 lie linguist.Pl DemP_Nz come.Ipf 2P by hither the

'Beware of false prophets who come among you.' Mt 7:15 B2
```

9.4 Preverbal adjuncts

Preverbal adjuncts are right-bound preverbal particles which are not part of tense, mood or polarity marking but have various other adverbial or discourse-related meanings. They fall into three groups according to their position with respect to any tense or mood markers. There is some variation of position with tense markers: thus B3 has 51 cases of sid da, 5 of da sid; 80 yu'un da, 4 da yu'un; 15 lee da, 1 da lee.

9.4.1 Before tense markers

sadıgím	'since' §10.5.1	ⁿ yaan/naan	'next, afterwards'
naan	'in that case' §10.3.3	pà' tì	'perhaps'
sìd	'truly'	yט'טn	'next'
lὲε	'but'		
Ò sìd daa á	nε nâ'ab.	'Truly, he w	as a chief.' W
3A truly Tns be	e Foc chief		
Josua yu'un da kudigya.		'Then Joshu	a grew old.' Jo 13:1
Josua yu'un	dá kùdìg ya.		
Joshua then	Tns grow.old NSb		
Ka Zugsob	sunf nyaan yu'un ma'ae.	'Then the Lo	ord's anger subsided.'
Kà Zug-sób súnf nyaan yυ'υn ma'e.		Jo 7:26	
and Lord	heart next then cool		

Verb phrases

Onε pa'ati an Kristo la bεε?

'Perhaps he is the Christ?' In 4:29

Onι_ pá' tì à Kristo la bέε_?

3A_+ perhaps be Christ the or_PQ

Ka man pian'ad la lee ku gaade.

'But my words will not pass away.'

Mt 24:35 B2

Kà man pịân'ad la lέε kỳ gaadε_. and 1S speech the but Ng.Irr pass_Ng

amaa lεε pυ'υsimi Wina'am bareka

'but thank God' Eph 5:4

àmáa lèe pù'usìmı_ Wínà'am bárìkà but but greet.Imp 2P2 God blessing

9.4.2 Between tense and mood markers

kulım/kudım 'always' nàm 'still' (with negatives, 'yet')

"yεε/εε" 'habitually' "yεε tί/εε" tί 'habitually' (nyii ti B1/2)

pùn 'previously, already'

On ne o pu'a Prisila daa kudim nan yine Room

On né ò pua' Prisila daa kudım nám yi ne Room

3A with 3A wife Priscilla Tns ever still exit Foc Rome

'He and his wife Priscilla had just arrived from Rome' Acts 18:2

Tìtm la nám bès_?

'Is there any medicine left?'

medicine the still exist PQ

ba nam pu kuu fo

'they haven't killed you yet' G2 p28

bà nàm pυ kύυ_fɔ_ 3P still Ng kill 2S Ng

Hor dim la me da eenti be Seir.

'The Horites too used to live in Seir.'

Hor dím la m $\acute{\epsilon}$ dá $\epsilon \epsilon^n$ tí b $\grave{\epsilon}$ Seir. Dt 2:12

Hor ØP the also Tns habit exist Seir

Pin'ilugun sa ka Pian'ad la da pun dεŋim bε.

Pin'ilúgu n sá kà Pịàn'ad la dá pùn dènim bè.

begin.Gd at hence and word the Tns already before exist

'In the beginning, the Word already existed.' Jn 1:1

Ò pòn "wè' búŋ la.

'He's already hit the donkey.'

3A already hit donkey the

9.4.3 After mood markers

tì 'next, then' là'am 'together' dèŋìm 'beforehand' màlìgìm 'again'

lèm 'again' (pv lém +Ipf 'no more')

kpὲlìm +Pf 'immediately', +Ipf 'still' (B3 has kpὲn)

hali ka Herod ti kpi. 'until Herod had died.' Mt 2:15

halí kà Herod tí kpì. until and Herod next die

Beogu ti nied la ka ba gaad! 'Before morning comes they have gone!'

Bεοgύ tì nìed lá kà bà gâad! Is 17:14

morning_Nz next appear.Ipf the and 3P pass

Kèm tí "yε dú'atà. 'Go and see Doctor.' S

go.Imp + next see doctor

ka nidib wυsa da la'am kpi nε o. 'so all people died together with him.'

kà nidib wusa dá là 'am kpì nó_. 2 Cor 5:14

and person.Pl all Tns together die with_3A

M nif lέm zábìd nε. 'My eye is hurting again.'

1S eye again fight.Ipf Foc

M nif pv lém zàbìda. 'My eye is not hurting any more.'

1S eye Ng again fight.Ipf_Ng

Amaa man pian'ad la ku maligim gaade.

Àmáa man piân'ad la kú malıgım gáade .

but 1S speech the Ng.Irr again pass_Ng
'But my words will not pass away.' Mt 24:35

Ka o kpelim zu'om. 'Immediately he went blind.'

Kà ò kpέlìm zu'om. Acts 13:11 B2

and 3A immediately go.blind

m biig Josef nan kpɛn vue. 'My child Joseph is still alive.' Gn 45:28

m biig Josef nám kpèn vue.

1S child Joseph still still live

9.5 Non-subordination marking

Gòsìmı ní ba!

look.Imp 2P2 3P

The VP of a main or content clause has NSb marking. Marking is absent in all other clause types, and also in *main* clauses introduced by kà. Marking is by a tone overlay on the verb (or preverbal adjunct) and subject-pronoun tone sandhi changes. When overlay falls on the verb itself, segmental markers also appear in certain cases.

Tone overlay does not appear in negative polarity or irrealis mood, or after the tense marker daa. Adjuncts which can follow mood markers §9.4.3 carry the overlay in place of the verb; for W, so does lèe 'but' (Lèe gos nâ'ab la! 'But look at the chief!')

Words with the NSb tone overlay have all tones L (prior to initial raising $\S4.2$), are themselves followed by initial raising, and show final M before liaison (replaced, as always, by H before fixed L.) Thus (with raising after \grave{m}):

```
M̄ ¬wέ' búŋ la.
                                               'I've hit (^{n}wè') the donkey (b\dot{\nu}\eta_{a}).'
      M gás bún la.
                                               'I've looked at (gps) the donkey.'
                                               'I hit the donkey yesterday.'
      Ṁ sá "wὲ' búŋ la.
      M sá gòs bún la.
                                               'I looked at the donkey yesterday.'
but
      mán "wὲ' bùŋ la
                                               'I having hit the donkey'
      mán gos bún la
                                               'I having looked at the donkey'
      Kà m gos bún la.
                                               'And I looked at the donkey.'
      M ρυ gos bún láa.
                                               'I haven't looked at the donkey.'
      M daa gos bún la.
                                               'I looked at the donkey.'
      asee o paae man
                                               'unless he comes to (pae') me'
                                               Jn 14:6 B2
      àsέε ò pae man
      unless 3A reach 1S
      Overlay before liaison (bòdìg 'lose', yadıg´ 'scatter', ma 'me', ba 'them'):
      bòdìgi m
                           bòdìgi bá
                                               bòdìgìdı m Ipf
                           yàdìgi bá
      yàdìgı_m
                                               yàdìgìdı_m Ipf
                                               'I've lost them.'
      M bódigi bá.
      M bódigí bà buus.
                                               'I've lost their goats.'
      2Vb imperatives carrying the tone overlay show the flexion ma §5.3.1:
```

'Look (Pl) at them!'

Verb phrases

but Da gose_! 'Don't look!'

Ng.Imp look_Ng

Kèl kà ò gɔs! 'Let her look!'

let.Imp and 3A look

Dòllı_ní_ba! 'Go (Pl) with them!' (1Vb)

accompany 2P2 3P

The particle ya follows any VP-final Pf carrying the tone overlay:

M tên'es kà ò gòs ya. 'I think she's looked.'

1S think and 3A look NSb

Ò dà gòs ya. 'He looked.'

3A Tns look NSb

but O pv gose_. 'He's not looked.' (Negative: no overlay)

Ò nà gos.'She'll look.' (Irrealis: no overlay)Ò daa gos.'He looked.' (No overlay after daa)Kà ò gos.'And he looked.' (No NSb marking)Ò gòsı m.'He's looked at me.' (Not final)

Ò gìm. 'She's short.' (Ipf)

Ò nòŋ. 'She loves [him.]' W (Ipf)

Ya remains M before the negative enclitic, and becomes L (not H) before the interrogative enclitics; this unique behaviour reflects its origin as a flexion.

Lì bòdìg yàa_? 'Has it got lost?'

Bound subject pronouns are normally followed by initial raising:

Kà ò "wέ' bùη la. 'And he hit the donkey.'

and 3A hit donkey the

wuu ba ane Kiristo ne 'as if they were Christ' Eph 6:5 B2

wύυ bà á nε Kiristo nε

like 3P be Foc Christ like

However, in clauses with NSb marking, raising is absent after ò lì bà always, and absent after m̀ fù tì yà if and only if they are directly preceded by ye 'that.'

The subject-pronoun tone sandhi changes occur independently of tone overlay, as in these examples, where tone overlay is absent because of the VP irrealis mood:

	Ò nà gɔs.	'He'll look.'
but	M̀ ná gɔs.	'I'll look.'
	Ò tèn'es yé ò nà gos.	'He thinks he'll look.'
	Ò tèn'es kà ò nà gos.	'He thinks he'll look.
	Ò tèn'es yé m̀ nà gos.	'He thinks I'll look.'
but	Ò tèn'es kà m̀ ná gos.	'He thinks I'll look.'

9.6 Final particles

NSb-Pf ya §9.5, na´ 'hither' and sà 'hence, since' are the last constituents in VPs, except for catenative clauses and unnominalised subordinate clauses:

```
Bùgúm la yít
               yáa ní ná ?
                                       'Where is the light coming from?' S
       the exit.Ipf where at hither_CQ
O tυmnε bεogun sa.
                                       'She's been working since morning.'
Ò từm nε bεogu n sá.
                                       Ru 2:7
3A work.Ipf Foc morning hence
Fυ kεya ka Ammon dim ku o.
                                       'You have made the Ammonites kill him.'
                                       2 Sm 12:9
Fù kέ yá kà Ammon dím kúo .
2S let NSb and Ammon
                    ØP kill 3A
                                       'Come and look!'
Kèm
       na_ gos!
come.Imp hither_+ look
```

Ka zuund da sig na ye ba di ni'im la.

Kà zùuⁿd dá sig na yé bà dí ni'm la.

and vulture.Pl Tns descend hither that 3P eat meat the

'Vultures came down to eat the meat.' Gn 15:11

Na´ and sa` within nominalised clauses may precede or follow an article la´ attached to the clause; they also accompany gerunds, and may likewise follow la´:

```
dunia kanε ken la na
duniyá-kànι ken la na
world-Dem Nz come.Ipf the hither
```

'the world which is coming' Lk 20:35

Ninsaal Biig la lεbυg la na Nin-sâal Bîig la lέbὺg la na 'the return of the Son of Man' Mt 24:27

human child the return.Gd the hither

For na´/sà distinguishing forms of $k\epsilon^n$ 'come' and keŋ´ 'go' see §5.3.1. Mɔra´ 'have' with na´ means 'bring.'

The negative enclitic §4.3 §9.3 follows catenatives and subordinate clauses, except for catenatives or unnominalised subordinate clauses which are outside the scope of the negation:

```
M daa ρυ "yε day lá kà ò á" ná'aba_. 'I didn't see the man as a chief.' K

1S Tnd Ng see man the and 3A be chief_Ng
```

but Ka li pv yuugɛ ka o pu'a mɛ kena. 'Not much later, his wife came too.'
Kà lì pv yúugɛ_, kà ò pua' mɛ ke na. Acts 5:7
and 3I Ng delay_Ng and 3A wife also come hither

For dropping of the enclitic in nominalised clauses see §10.5.

9.7 Complements and adjuncts

The order of arguments after the verb is: indirect object NP, direct object NP, adjunct NPs, object/adjunct clauses. Clauses as VP arguments are discussed in §10. Relative clauses §10.5.2 appear in all NP roles; catenative clauses as objects of kɛ 'let', mìta 'beware', "yɛ 'see' §10.4.2, or predicative adjuncts; purpose clauses §10.6 as objects of verbs of necessity, permission, intent or expectation, or adjuncts; content clauses §10.7, relative clauses with si'em and absolute clauses §10.5.1 as objects of verbs of cognition and communication, beside adverbials with yɛlá §8.6.1.

9.7.1 Objects

Strictly transitive verbs (which include all causatives and relational verbs) require **direct objects**: if none appears, an anaphoric pronoun object is implied, and an explicit generic object needs to be supplied to avoid this:

Q. Fù mớr gbayn láa? 'Do you have the letter?' A. ϵ_n , m̀ mớr. 'Yes, I have it.'

Verb phrases

Mid ka ya ku nid.

'Do not kill.' Ex 20:13

Mìt kà yà ku nid. beware and 2P kill person

Many verbs are ambitransitive. With patientive ambitransitives, like nae´ 'finish', bòdìg 'lose/get lost', transitive objects become intransitive subjects, in an "anticausative alternation" (Zúñiga and Kittilä 2019, 6.2.1.) Most such verbs express state changes. Agentive ambitransitives appear with and without objects, with no change in the subject role, and no anaphoric implication if the object is absent:

kεl ka ba nu ku'om

'let them drink water' Gn 29:7

kèl kà bà nu kû'om

let.Imp and 3P drink water

Kεlli ka ti di ka nu

'Let us eat and drink' 1 Cor 15:32

Kèlí kà tì dí kà nu let.Imp 2P2 and 1P eat and drink

Agentive ambitransitives also appear in **middle constructions** (Zúñiga and Kittilä 2019, 6.3.1), with the direct object becoming subject and agent suppressed; unlike anticausatives, these constructions cannot form progressive Ipfs §11.1:

Daam la nú ya.

'The beer has got drunk.'

beer the drink NSb

Gbàuη la sób nε.

'The letter is written.'

letter the write Foc

Gbàyŋ la sóbìd súŋa.

'The letter writes easily.' W

letter the write.Ipf well

Gbànà sóbìd ziná.

'Letters are written today.' W

letter.Pl write.Ipf today

Daam la nûud nɛ.
beer the drink.Ipf Foc

'The beer is for drinking.'
(not "is being drunk." W)

Inceptives from stance verbs may take parts of the subject's body as objects:

Dìgìním fò nû'ug.

'Put your hand down.'

Lìgìním fò nif né fò nû'ug.

'Cover your eye with your hand.'

Some verbs only take direct objects of very limited types, often nouns from the same stem, e.g. zàansim záansímà 'dream dreams' Acts 2:17 or

Fù túm bó-tùumà_? 'What work do you do?' S

 $2S\ work.Ipf\ what\text{-}work.Gd.Pl_CQ$

Manner-pronoun objects often replace pronouns with abstract reference:

man tɛn'ɛs si'em la ku viigɛ. 'What I plan will not be put off.'

mán teⁿ'es si'em la kú viigé_. Is 14:24

1S.Nz think how the Ng.Irr put.off_Ng

Da nínì àláa_! 'Don't do that!'

Ng.Imp do thus Ng

Indirect objects expressing benefit or interest can follow almost any verb:

Ò dùgu m. 'He cooked (for) me.' W

3A cook 1S

Lì màlisı m. 'I like it.'

3I be.sweet_1S

Àláafỳ bέο . 'She's well.'

health exist 3A

line maal dap ayi' bane ka kikiris dolli ba la

lìnì màal dapá àyí bánì kà kìkiris dɔllí ba la

DemI Nz make man.Pl two DemP Nz and fairy.Pl accompany 3P the

'what happened to the two men who had been afflicted by demons' Mt 8:33

O tis biig la piini. 'She's given the child a gift.'

3A give child the gift

Even with verbs like tis 'give' which typically take an indirect object, omission does not imply anaphora: one tisid piini 'one who gives gifts' Prv 19:6. Causatives from agentive 2Vbs are strictly transitive, with the original agent as indirect object:

Ò dà nùlìsı bá kû'om. 'She gave them water to drink.'

 $3A\ Tns\ make.drink_3P\ water$

In many idioms the logical object appears as an indirect object before a fixed direct object, e.g. kàd X sàríyà 'judge X', nìŋ X yàdda 'trust X', ¬wɛ̀' X nû'ug 'beg X', zò X nin-báa¬lìg 'pity X', zò X dàbiem 'fear X':

```
M na kadif saria ka li dolli fu tuuma.
M ná kadi f sáríyà kà lì dollí
                                  fù tuuma.
1S Irr drive 2S law
                  and 3I accompany 2S work.Gd.Pl
'I will judge you by your deeds.' Ez 7:3
ba da niŋif yadda ka fυ faaɛn ba.
                                         'they trusted you and you saved them.'
                                         Ps 22:4
bà dà nìnì f yádda kà fù fáan ba.
3P Tns do 2S trust and 2S save 3P
m na ke ka fo dataas la nwe'ef nu'ug. 'I'll make your enemies plead with you.'
m ná ké kà fù dà-taas la ηwê'ε f nû'ug. Jer 15:11
1S Irr let and 2S enemy.Pl the hit_2S hand
ka o zo biig la nimbaanlig
                                         'and she pitied the child' Ex 2:6
kà ò zó biig la nin-báa<sup>n</sup>lìg
and 3A run child the pity
Adonija zotif dabiem.
                                         'Adonijah is afraid of you.' 1 Kgs 1:51
Adonija zótı f dábiem.
Adonijah run.Ipf_2S fear
Da zot dabiem.
                                         'Don't be afraid.' Gn 15:1
Da
      zót dábíemm.
Ng.Imp run.Ipf fear Ng
```

In standard orthography, which does not mark tone, such constructions are not distinguishable from idioms with a verb followed by a possessed fixed noun object, unless the indirect object or possessor is a 1S or 2S pronoun, as in e.g.

```
alazugɔ Wina'am ya'a tɛɛgi fʊ tʊbir fʊn da kɛ ka li zabi fɔ.
àlá zúgɔ Wínà'am yá' tɛɛgì fʊ tʊbir fʊn da kɛ́ kà lì zábi_fɔ_.
so God if pull 2S ear 2S Ng.Imp let and 3I hurtt_2S_Ng 'so if God punishes you don't let it hurt you.' Jb 5:17
```

Here tèɛg X tòbìr means 'punish X'; the noun is always singular: m na tɛɛgi ba tubir 'I will punish them' Ex 32:24.

Some verbs take **predicative objects**, notably $\grave{a} \not e^n_{ya}$ 'be something' and its negative $ka \not e^i$ (sandhi §4.1; with focus- $n \not e^i$ §11.1):

```
Manı_ á<sup>n</sup> dú'atà kà fun mén áe̯n. 'I'm a doctor and you are too.'

1S + be doctor and 2S also be
```

Adjectives can appear as heads only in predicatives, but only some adjectives may do so, and even predicatives are more often derived manner nouns or compounds of nin- 'person' or bun- 'thing' §8.7.2:

Bà à nε píelà.

'They're white.' W

3P be Foc white.Pl

Mam anε pielug amaa m ya'a paae bugumin asεε ka m lεb zin'a.

Mam á nε píelòg àmáa m yá' pae búgúmι_n, àsέε kà m léb zìn'a.

1S be Foc white but 1S if reach fire at except and 1S turn red

'I am white, but when I reach the fire I turn red.' [a crayfish] G1 p16

Lì à ne bugusiga.

'It's soft.'

3I be Foc softly

Lì à ne zaalím.

'It's empty.'

3I be Foc emptiness

Lì àⁿ súŋa.

'It's good.'

3I be well

(see §11.1 for the absence of $n\epsilon'$)

Dub á nε bun-súŋ.

'Food is a good thing.' W

food be Foc thing-good

Quality verbs $\S 5.3.2$ are often used instead. In B, $s\grave{v}m_{ma}$ 'be good' appears only before content clauses ('be good that ...')

Predicatives often appear as adjuncts:

ba daa naan volini ti vut

'they would have swallowed us alive'

bà daa naan vulı_ní_tı vut

Ps 124:3

3P Tns then swallow_DP_1P alive.Pl

Some constructions show a direct object followed by a predicative, e.g.

Ka o maal o men nintita'ar.

'He made himself out to be a great man.'

Kà ò mâal ò mɛŋ nin-títa'ar.

Acts 8:9 B1

and 3A make 3A self person-big

Naming constructions with pùd 'dub' or bùol 'call' take the named entity, or yu'ur' 'name' with the named entity as possessor, as direct object, followed by the name itself, which is often preceded by ye:

Ka fu na pud o yu'ur ye Yesu. Kà fù ná púd ò yu'ur ye Yesu.

'And you will call him Jesus.' Mt 1:21

and 2S Irr dub 3A name that Jesus

on ka ba buon ye Pita la

'who was called Peter' Mt 10:2

òn kà bà bûon ye Pita la DemA and 3P call.Ipf that Peter the

dau sɔ' ka o yυ'υr buon Joon. dày-sɔ́' kà ò yυ'υr bûon Joon.

'a man called John.' Jn 1:6 (middle construction)

man-IdfA and 3A name call.Ipf John

Predicative ideophones include baaⁿlímm LF baaⁿlímnè 'quiet', nà'ana´ 'easy', sapı 'straight', ⁿyae LF ⁿyaené 'bright':

Aa ní àlá baanlímm!

'Be (Pl) quiet!'

be 2P2 thus quiet

Lì à nε ná'ana.

'It's easy.'

3I be Foc easy

maalim suoraug sappi moogin la maalim sua-daug sapu moogu_n la 'make the highway straight in the bush'

Is 40:3

make.Imp road-male straight grass_at the

kε ka ti lieb nyain.

'make us light.' 1 Jn 1:7

kέ kà tì lîeb ¬yae.

let and 1P become bright

9.7.2 Adverbials

Adverbials are nouns or NPs typically used as VP adjuncts of manner, time, circumstance, place or reason. Subtypes include pronouns, pronoun-like nouns which cannot take dependents (CGEL p429), postpositions with predeterminers, and relative clauses §10.5.2. They may also occur as NP predependents, as objects (line an Gadara dim tenin 'which is at Gadara' Mt 8:28) and even as subjects:

Sὑŋa bέ. ""OK" it is.' W

well exist

Ziná á nɛ dá'a. 'Today is market.'

today be Foc market

Yin venl 'The outside is beautiful' Acts 23:3 B2

Yìŋ vέⁿl

outside be.beautiful

o pu'alvŋ la zugv kε ka ti paam laafi 'his harm has let us get health' ò pù'alúŋ la zúgù_ kέ kà tì pâam láafì Is 53:5

3A damage the on + let and 1P receive health

9.7.2.1 Manner

Manner adverbials include pronouns like wɛlá 'how?' and manner nouns, which cannot take dependents. Some manner nouns show apocope-blocking §3.1 and/or prefixed à §6.1.2; some derive from adjective stems with suffixed m or ga §6.1. Expressive ideophones are manner adverbials:

Ò zòt nε tólìb tólìb. 'It [a hare] is running lollop-lollop.' W

As with numerals §8.5.1, reduplication is distributive with ordinary nouns: zin'ig zin'ig 'place by place', dàbìsìr dábìsìr 'day by day'; with manner nouns or mass quantifiers it intensifies: àsídà sídà/àmɛŋá mɛŋá 'very truly'; bi'el bi'el 'very little.'

Non-referential count nouns are sometimes used as manner nouns:

M kéŋ nɔbá. 'I went on foot.' S; W nε nɔbá (nε 'with')

1S go leg.Pl

À ηyε nε nif sɔ́η'ɔ à wòm tòbà. 'Saw-with-eye beats Heard-with-Ears.'

Pz see with eye surpass Pz hear ear.Pl (Seeing is believing.)

Numerals have specific forms for 'so many times' §8.5.1. Other quantifiers may also appear as manner adverbials:

Ò tòm bédògu/pamm. 'She's worked a lot.'
Bà gòsi_tí bábìga. 'They've looked at us many times.' W
cf Bà gòsí tì bàbìga. 'They've looked at many of us.' W

Mass quantifiers may float from within an object or a place adverbial to a later adjunct position:

Bà gòsι_tí wυsa.

'They've looked at us all.' W

3P look_1P all

ka bεε m kɔnba ni wυsa

'and is in all my bones' Jer 20:9

kà bέε m̀ kɔʰba ní wυsa

and exist 1S bone.Pl at all

9.7.2.2 Time

Some time adverbials are single words which cannot take dependents; beside pronouns (cf CGEL p564) like

nannánna´	'now'	ziná	'today'
sù'os _a	'yesterday'	bεog _o	'tomorrow'
dunná	'this year'	daar	'two days off/ago'
yà'as/yà'as _a	'again'	tò'ɔtɔ´	'straight away'

Some are fixed expressions like

bεog sá/bεog daar 'in future' bὲ-kìkὲong₂ 'very early morning'

Most are simply NPs expressing times, e.g.

zàam 'mwá 'this evening' yú'uŋ 'mwá 'tonight'

"wad-kánì_ gàad la 'last month'

moon-Dem_Nz pass the

"wad-kánì_ ken na la 'next month'

moon-Dem_Nz come.Ipf hither the

The irregular noun saná 'time' appear in time adverbials like

san-kánὲ_?	'when?'	san-kán la	'at that time'
saŋá kám	'at all times'	saŋá bὲdùgぃ	'a long time'
sansá bὲdùgυ	'many times'	saŋá bi'elá	'for/in a short time'

The locative particle §9.7.2.3 appears in some time expressions:

```
bεogυ_n 'morning' yiigí_n 'at first' san-sí'e n la 'at one time, once'
```

Daar 'day/date' distinct from daar 'two days off/ago') and win_n 'time of day' always take determiners: nob-kôog dâar nobkoog daar 'the day a leg is broken' §13.2. Their use distinguishes points in time from spans of time:

```
Tì daa kpślìm ànína dabá àyɔ́pɔ̀e̯. 'We stayed there a week.'

1P Tns remain there day.Pl seven

Dabá àyɔ́pɔ̀e̯ dâar kà fù ná lɛb na. 'You'll come back in a week.'

day.Pl seven day and 2S Irr return hither

daar wusa/wuu/mé-kàmà 'every day'
yùum ànwá/ànwána wín 'this time next year'
dáar ànwá/ànwána wín 'this time the day after tomorrow.'
```

Proper names of days of the week §8.3 always take daar: Àláasìd dâar 'Sunday.' The Pl daba 'days' appears only before the number prefix à; the CIF dà- (written dab in B3) is used before piiga/pii 'ten' and pisí/pis 'tens.' Dàbìsìr '24-hour period' is also used with numerals.

Karıfá 'o'clock' precedes a number word to express clock times, e.g. karıfá àtán' 'three o'clock.'

9.7.2.3 Place

Place adverbials may be pronouns like kpε 'here', specialised words like yìŋa 'outside', dàgòbìga 'left', àgól_|/àgɔlá 'upwards', lallí 'far off', Kusaal place names, or NPs headed by postpositions. No verb always requires a place-adverbial object:

Dày-sɔ' bέ kpεlá. 'There's a man here.'

Verb phrases

Wínà'am bέ. but 'God is there.' (i.e. "It'll all work out.") Waad bέ. 'It's cold.' ("Cold exists.") Àláafù bέ. 'There is health.' (greeting) Ka o paae zin'igin la. 'And he reached the place.' Lk 22:40 Kà ò pae zin'igun la. and 3A reach place_at the but li saŋa sid paae ya. 'Its time has surely arrived.' Ps 102:13 lì saná sìd pàe ya. 3I time truly arrive NSb

Many place adverbials are formed with the **locative particle**, which has the form $n\iota$ after pronouns ($m n\iota$ /man $n\iota$ in me'), loanwords, and words ending in short vowels in the SF, but enclitic n elsewhere:

la'asug dɔɔdin nε suoya ni 'in synagogues and in streets' Mt 6:2 là'asùg dɔ́ɔdi_n nε suoyá nì gather.Gd house.Pl_at with road.Pl at

It may precede or follow la': mò'arı n la or mò'ar la ní 'in the lake.'

The locative particle follows all nouns used as heads of place NPs other than proper names of places and some postpositions.

Ka Pailet lɛn yi nidibin la na 'Pilate came out to the people again'
Kà Pailet lɛ́m yi nidibí_n la na Jn 19:4

and Pilate again exit person.Pl_at the hither

Dè dâ'a_n. 'He's at market.'
Dè kɔlɪgɪ_n. 'He's at the stream.'
Dè toummɪ_n. 'He's at work.'

Yir' 'house' has the exceptional locatives yínn Pl yáa_n 'at home.'

Kusaasi place names are intrinsically locative and do not take $n\iota' \sim n$, but are often followed by an appositive place pronoun, particularly for rest at a place:

Ò bè Bók.
'He's in Bawku.'
'I'm going to Bawku.'
Fò yûug Bók kpɛláa_?
'Have you been long in Bawku (here)?'

Speakers treat foreign places names similarly, but B often uses nu' or paraphrases like Jerusalem ténun "in Jerusalem-land", especially for rest at a place.

Most postpostions §8.6.1 have place-adverb meanings; they include

```
Babá 'beside' (Pl of babır´ 'sphere of activity'): m̀ nɔbá bàbà 'beside my feet.'

Gbìn<sub>n</sub> 'at the bottom of' (gbìn<sub>n</sub> 'buttock'): zuor la gbín 'below the mountain.'

Kɔn'/kɔn'ɔkɔ 'by ... self' (àdàkɔ́n' 'one'): m̀ kɔn' 'by myself.'

nYá'aŋa 'behind, after' (nyá'aŋa 'back'): lì nyá'aŋ, nɛ'ɛŋa nyâ'aŋ 'afterward.'

Pυυgυ_n 'inside' (pυυga 'belly'): yòum la pύυgυ_n '[months] in the year',

dò-kàŋa la pύυgυ_n 'inside that hut.'
```

San'an´ 'in the presence/opinion of': Wínà'am sân'an 'in the sight of God', and

```
Fù ná di'e tîım puá'-bàmma la sân'an.
```

```
2S Irr get medicine woman-DemP the by
```

'You'll get the medicine from where those women are.'

```
Sὑυgυ_n/sìsὑυgυ_n 'between': tınám nɛ fun súugυ_n 'between us and you.' Teŋír 'under': Gòsìm teŋír! 'Look down!'; téɛbùl la téŋìr 'under the table.' Tùon<sub>n</sub> 'in front of': Gòsìm tûon! 'Look forward!'; daká la tûon 'before the box.' Zug_{2}´ 'onto' (zug_{2}´ 'head'): téɛbùl la zúg 'onto the table'; zug_{2}n is 'on': téɛbùl la zúgu_n 'on the table.'
```

Saa zúg₂ 'up above' can mean 'sky': saazug paal 'a new heaven' 2 Pt 3:13.

9.7.2.4 Reason

Place adverbials are used metaphorically to express reason: thus zug_{5} 'onto' is used for 'because of'. In this meaning, it often follows an absolute clause §10.5.1.

```
Faanmim fu nɔŋilim la zug. 'Save me because of your love.' Ps 6:4
Fàanmi_m fù nòŋìlim la zúg.
save.Imp_1S 2S love the on

Ban mɔr dɛŋ la zug, ba ku di'e baa.
Bán mɔr dɛŋ la zúg, bà kù di'e_báa_.
3P.Nz have wound the on 3P Ng.Irr receive_3P_Ng
```

Bo zúg 'for what reason, why?' has become a clause adjunct §10.1 meaning

'because'; here Toende Kusaal uses a different postposition: boyela 'because.'

'Because they have a defect, they will not be accepted.' Lv 22:25

Ken´ 'go' may take a gerund as complement in the sense 'go in order to do something'; usually this complement has no locative particle:

O pυ sυ'υm ye o dɔlli ti keŋ zabirin la.

9.7.3 Prepositional phrases

biig lá keŋ daam la dâ'ab la

child the Nz go beer the buy.Gd the

The prepositions are $n\epsilon$ 'with', wov 'like', and the loanwords àsé ϵ 'except' and halí 'as far as', along with some combinations of these words. They take NP objects, which may be nominalised clauses. Except for $n\epsilon$, which can only take NP objects, prepositions may also introduce unnominalised clauses as subordinators §10.8.

§13.1

Coordination does not occur within prepositional phrases.

Personal pronouns as objects of prepositions adopt either free or non-enclitic bound forms:

```
wυυ fun nε 'like you' wύυ fù nε 'like you'
```

Ne either takes non-enclitic forms or adopts the form n i, which is followed by enclitic pronouns:

ní_m	'with me'	ní_tı	'with us'
ní_f	'with you Sg'	ní_ya	'with you Pl'
nó_	'with him/her'	ní_ba	'with them'
ní li	'with it'		

 $N\varepsilon$ is 'with' in both the sense 'using' and the sense 'accompanying':

```
Lìgìním fò nif né fò nû'ug. 'Cover your eye with your hand.' cover.Imp 2S eye with 2S hand
```

Verb phrases

Bà kèη nε nɔbá.

'They've gone on foot.' W

3P go with leg.Pl

Kulim ne sumbogosom.

'Go home in peace.' Mk 5:34

Kùlìm nε suⁿ-búgùsìm.

go.home.Imp with peace

Dìm ne Wın, da tô'as ne Wınné .

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

eat.Imp with God Ng.Imp talk with God_Ng

 \dot{M} gé^{n'} né fù.

'I'm angry with you.' S

1S get.angry with 2S

 $N\epsilon$ 'and' coordinating NPs §8.1 is historically the same word.

Some verbs take prepositional phrases with $n\epsilon$ as objects, e.g. dol_{la} 'go with' in the sense 'accord with'; lal_{la} 'be far from'; nar_a 'need' in the sense 'deserve':

ka li dolnε o tυυma

'according to his deeds' Ez 18:30

kà lì dòl nέ ò tυυma

and 3I accompany with 3A work.Gd.Pl

Amaa o pu lal ne tii.

'But he is not far from us.' Acts 17:27

Àmáa ò pυ lal nέ tιι_.

but 3A Ng be.far with 1P_Ng

Fυ nar nε fυn na kpi.

'You deserve to die.' Jgs 2:26

Fù nár nε fún nà kpi.

2S need with 2S.Nz Irr die

The combination half ne is used with time NPs:

halí ne ziná

'until today'

Là'am nɛ 'together with' means 'although' with absolute clauses:

la'am nε on da zi' on keŋ teŋ si'a la

là'am nε ón dà zι' ón keŋ téŋ-si'a la

together with 3A.Nz Tns Ng.know 3A.Nz go land-Idf the

'although he did not know what country he was going to' Heb 11:8

For halί là'am nε 'even though' see §11.2.

Objects of woo 'like' which are not followed by the article la are followed instead by an empty particle $n\epsilon$, unless they are numerals (where the meaning is 'about, approximately') or interrogative pronouns:

พบบ man nɛ 'like me'

wυυ bύŋ nε 'like a donkey'

wບບ tusá àyí 'about two thousand'

wuu bó_? 'like what?'

mori ya'am wuu wiigi ne 'be wise as serpents' Mt 10:16

mòrι_ ya'am wυυ wiigí nε have 2P2 sense like snake.Pl like

Ò zòt wuu búηὶ zòt si'em la. 'He runs like a donkey runs.'

3A run.Ipf like donkey_Nz run.Ipf how the

<code>"Wenna'</code> 'be like' takes a prepositional phrase with ne or wou; the object is followed by ne as after wou:

M nwene danuud ne. 'I am like a beer-drinker.' Jer 23:9

M˙ nwέn nε da-nûud nε.

1S be.like with beer-drinker like

W permits adjuncts introduced by wov (but not $n\epsilon$) to be preposed with $k\grave{a}$:

Wυυ búŋ nế kà ò zót. 'Like a donkey, he runs.'

like donkey like and 3A run.Ipf

As prepositions, halί means 'up until, as far as', and àsέε means 'except for':

O daa pun ane ninkuud hali pin'ilugun sa.

Ò daa pún à ne nin-kôud halí pin'ilúgu n sá.

3A Tns previously be Foc person-killer even begin.Gd_at since

'He was a murderer from the beginning.' In 8:44

So' kae an sυ'υm asεε Wina'am gullim.

Sɔ' kae'_ áⁿ sύ'm àsέε Wínà'am gύllımm.

IdfA Ng.be + be goodness except God only

'There is none who is good except God alone.' Mk 10:18

10 Clauses

10.1 Structure

Typical clauses consist of subject NP + VP. Any deviation from SVO represents preposing or dislocation. Subjects may be preceded, in order, by prepositions, clause linkers ($k\grave{a}$, ye or n), adverbials, and/or preposed elements. Subjects are ellipted after n, and sometimes after $k\grave{a}$. The nominalisers n and $y\grave{a}'$ 'if' follow the subject.

Most clause types require subjects. Impersonal constructions use lì:

Lì tòl. 'It [weather] is hot.'

3I be.hot

Lì àⁿ súŋa. 'Things are good.'

3I be well

Lì nàr kà fò kul. 'You must go home.'

3I must and 2S go.home

Lì may be omitted in yà'-clauses:

Ya'a ka'ang alaa 'If it had not been so' Jn 14:2

Yà' ka'a_ní àláa_

if Ng.be_DP thus_Ng

Without a subject, zt' 'not know' means 'unbeknownst.'

Dummy-subject li is also often omitted before ka' 'not be' (see e.g. §11.3.)

See §10.3.2 for ellipsis and movement of subject pronouns in commands.

Subject pronouns are ellipted after n. Pronouns referring to preceding subjects are very often ellipted after coordinating (not cosubordinating) kà, with initial raising after kà; in a reported dialogue kà ò yél ... kà ò yél each ò marks a switch of speaker. If no pause precedes kà, the implicature of subject change from lack of ellipsis can even override animacy marking (but this is tending to break down in any case §8.2):

Pua' la dá' daká kà keŋ Bók.

woman the buy box and go Bawku

'The woman has bought a box and gone to Bawku.' W

but Pua' la dá' daká kà ò ken Bók.

woman the buy box and 3A go Bawku

'The woman has bought a box and it has gone to Bawku.' W

The ellipted pronoun may refer to the subject of a preposed absolute clause:

Ban wum nɛ'ɛŋa la ka sin. 'After they heard this they fell silent.' Bán wùm nɛ'ɛŋa lá kà sin. Acts 11:18

3P.Nz hear DemI the and be.silent

(Cf the absence of tense marking after preposed absolute clauses §9.2.1.)

Other subject pronoun ellipsis is informal, and may be "corrected" if speakers' attention is drawn to it; however, it has become standardised in many greetings and proverbs. The meaning is unaffected. Initial raising after ellipted pronouns remains:

Náe yàa_? '[Have you] finished?' finish NSb PQ

Prepositions §9.7.3 may precede unnominalised clauses, before any linkers:

yɛli ya zanbina bɛɛ ye o na pa'al tuumnyalima yɛ̀li_ya zanbina bɛɛ yé ò nà pa'al tûum-nyalimá say_2P sign.Pl or that 3A Irr show work.Gd-wonderful.Pl 'telling you signs, or that he will show wonders' Dt 13:1

Prepositional clauses are subordinate.

Clause adjuncts follow prepositions or linkers but precede all other constituents, including preposed elements. They include the coordinating particles kub/bee 'or' and amáa 'but':

Amaa on sadigim kpi la, bɔ ka m lɛm lɔɔd nɔɔr ya'asɛ?
Àmáa ón sadıgím kpí la, bɔ́ kà m̀ lɛ́m lɔɔd nɔɔr yá'asɛ̊_?
but 3A.Nz since die the what and 1S again tie.Ipf mouth again_CQ
'But since he has died, why should I still be fasting?' 2 Sm 12:23

Almost any time, circumstance or reason adverbial can be a clause adjunct, e.g. absolute clauses §10.5.1, lín àn si'em la 'as it is', lì nyá'an 'afterward', as can àsıda/àsıda mén 'truly', àlá mèn 'likewise.' All these may also be VP adjuncts, preposable with kà §11.4, and so may end up preceding the subject alone, or with kà preceding, following, or both. Manner and place adverbials cannot be clause adjuncts, and may thus only precede by kà-preposing:

```
Mɔɔgú_n kà mam bέ. 'I'm in the bush.'

grass_at and 1S exist (W's correction of *Mɔɔgú_n mam bέ)
```

Some clause adjuncts do not occur as VP adjuncts; yà'- §10.3.3 and sadıgím-clauses §10.5.1 appear clause-finally only by dislocation due to weight §11.4, and daa-sî'er 'perhaps' means 'some day' as a VP adjunct.

Clause adjuncts may appear as LFs §4.3, particularly b \log_2 'tomorrow', àlá mèn 'likewise', daa-sí'er 'perhaps' and forms with zug_2 . Used as VP adjuncts, dìn/lìn zúg 'therefore', àlá zúg 'thus', bɔ zúg 'because' must be preposed with kà; bɔ zúg is then interrogative 'why?' Along with àlá mèn, they can also be subjects of ké kà 'cause that' §10.4.2.

Àsέε 'unless' appears as a clause adjunct in purpose clauses §10.6.

10.2 Coordination, subordination and cosubordination

Main clauses can be statements, questions or commands; they may lack VPs. For the position of main-clause VP-final particles in relation to any subordinate or catenative clauses see §9.6. Main clauses show NSb marking §9.5 unless coordinating kà precedes. Main clauses can also be coordinated with bee 'or' or àmáa 'but.' A distinctive subtype of main-clause coordination with some resemblances to cosubordination appears in narrative §9.2.1.

Bee 'or' can also coordinate clause constituents, including NPs $\S 8.1$ and even single verb words:

```
Bà ρυ tum bεε nwiid gummε. 'They do not work or spin.' Mt 6:28
Bà ρυ túm bεε 'wiid gúmmε_.'
3P Ng work.Ipf or spin.Ipf thread_Ng
```

It is possible that in such cases a subject pronoun has been ellipted after bee; cf CGEL p791, where it is pointed out that in English, a negative may have scope over a coordination if this involves gapping.

Subordinate clauses are either nominalised or unnominalised.

Clauses are nominalised by the post-subject particles \grave{n} §4.4 or $y\grave{a}'$. Clauses nominalised by \grave{n} are either absolute clauses, usually used as adverbials, or relative clauses; like other NPs, they are coordinated with $n\epsilon$ 'and' or $b\epsilon\epsilon$ 'or':

```
On ka' sida sɔba, nɛ on tum tuumbɛ'ɛd sieba la zug
Ón ka' sídà sɔ́ba_, nɛ ón tùm tùum-bɛ'ɛd-sieba la zúg
3A.Nz Ng.be truth ØA_Ng with 3A.Nz work work.Gd-bad-IdfP the on
'Because he is untruthful, and because of the sins he has committed.' Ez 18:24
```

Clauses nominalised by yà' are protases of conditional clauses §10.3.3.

Unnominalised subordinate clauses are introduced by the linker particle ye 'that' (occasionally replaced by kà, with no other changes of the construction) or by prepositions §10.8. Content clauses follow ye 'that'; they differ from all other subordinate or catenative clauses in having the same range of structural possibilities as main clauses, and like main clauses they show NSb marking.

Purpose clauses also follow ye 'that', but they have either imperative or irrealis mood VPs and otherwise show a similar range of structures to nominalised clauses, and they always lack NSb marking. Unnominalised subordinate clauses are coordinated with kà 'and' or bee 'or':

ka lin anε ye fu ku maali ti bɛ'ɛdɛ nwɛnɛ tinamɛ daa pu maalif bɛ'ɛd si'em la asɛɛ su'um ma'aa, **ka ye** fu yim nɛ sumbugusum la.

```
kà lın á nɛ yé fù kù maalı_tí bɛ'ɛdı_ nwɛn nɛ tınámì_ daa pu máalì_f bɛ'ɛd and 3I be Foc that 2S Ng.Irr make_1P bad_+ resemble with 1P.Nz Tns Ng make_2S bad si'em lá àsɛ́ɛ sùm má'àa, kà yé fù yím nɛ sun-búgùsìm la. how the except good only and that 2S exit.Imp with peace the '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.' Gn 26:29
```

Cosubordination is the relationship involved in clause "catenation" §10.4. Cross-linguistically, cosubordination involves a closer semantic connection between clauses than subordination (Foley and Van Valin 1984 pp264ff.) Catenation with the particle n resembles verb serialisation, but has a much wider range of uses, and there is a complementary cosubordinating use of kà to introduce catenative clauses when their subjects (or polarity) differ from the main clause.

Catenative clauses are coordinated with kà 'and' or bee 'or':

```
Sogia so' kae' n tum ka yood o meŋa.
Sɔ́gi̯à-sɔ' kae̯' n tum kà yɔɔd ò mɛŋá_.
soldier-IdfA Ng.exist + work.Ipf and pay.Ipf 3A self_Ng
'No soldier works and pays for himself.' 1 Cor 9:7 B1
```

Subordinate and catenative clauses may occur recursively as components of other subordinate or catenative clauses:

```
Ka Yesu yυ'υn baŋ ye si'el wusa naae ya la ka yεl ye
Kà Yesu_ yυ'υn báŋ ye si'el wusa náe ya lá kà yέl ye
and Jesus.Nz then realise that Idfī all finish NSb the and say that
'Then when Jesus knew that everything was finished, he said ...' Jn 19:28
(content clause within a nominalised absolute clause)
```

ban mi' ye biig la kpinɛ la zug bán mi' ye biig la kpí nɛ la zúg 3P.Nz know that child the die Foc the on 'because they knew the child was dead' Lk 8:53 (content within absolute clause)

M pυ bɔɔd ye fu ti yɛl bɛog daar ye funɛ kɛ ka mam Abram lieb bummɔra. M pu bɔ̂ɔd yé fù tí yɛ̀l bɛog daar ye funɪ kɛ́ ka mam Abram lieb bun-mɔ́ra.

1S Ng want.Ipf that 2S next say in.future that 2S_+ let and 1S Abram become thing-haver_Ng

'I do not want you in future saying that you made me, Abram, rich.' Gn 14:23

(catenative clause within a content clause within a purpose clause)

Ka sieba tɛn'ɛs ye Judas n da mɔri ba ligidi kɔlug la yɛla ka Yesu yɛt o ye o da'am la'abanɛ ka ba bɔɔd maluŋ diib dabisir la yɛla, bɛɛ o suŋim nɔŋdim la.

Kà sieba tɛn'ɛs ye Judas n dà mɔrí bà ligidi kɔ́lug la yɛ́la kà Yesu yɛ́to_ yé and IdfP think that Judas Nz Tns have 3P money bag the about and Jesus say.Ipf_3A that ò dà'am lá'-bàni_ kà bà bɔ̂ɔd maluŋ dîub dàbisir la yɛ́la,

3A buy.ImP goods-DemP_Nz and 3P want sacifice eat.Gd day the about bɛ́ɛ ò suŋim nɔŋ-dím la.

or 3A help.Imp poverty-ØP the

'Some thought that, as Judas had their moneybag, Jesus was telling him to buy what they wanted for the Passover meal or to help the poor.' Jn 13:29 (coordinated content clauses within a content clause which also contains an embedded absolute clause as part of a reason-adverbial clause adjunct)

Elasia one an Safat biig ka daa suŋid Elaja la bɛ kpɛla.

Elasia ónù_ àn Safat bîig kà daa súŋìd Elaja la bɛ kpɛlá.

Elisha DemA_Nz be Shaphat child and Tns help.Ipf Elijah the exist here

'Elisha, son of Shaphat, who used to help Elijah, is here.' 2 Kgs 3:11

(a nominalised clause formed from two coordinated clauses)

10.3 Main

Main clauses show NSb marking unless introduced by kà. They may be statements (the default), questions or commands; some lack VPs. Coordination is with kà 'and', kυυ/bεε 'or'; with lèε 'but', or in narrative, kà corresponds to English zero.

10.3.1 Questions

Content questions (except lìa clauses §10.3.4) contain an interrogative pronoun and end with the content-question enclitic §4.3. Focus-nɛ´ cannot appear. There is no special word order, but if the subject contains the interrogative pronoun it must be n-focused §11.1, and non-subjects are often preposed §11.4. Preposing is obligatory with bb and bb zúg as 'why?'

```
Fù bôod bó?
                                        'What do you want?'
2S want.Ipf what_CQ
Fù bôɔd línè_?
                                        'Which do you want?'
2S want.Ipf DemI CQ
Day la "yé ànó'onè?
                                        'Whom has the man seen?'
man the see who_CQ
Boo máalè?
                                        'What has happened?'
what + make CQ
                                        'Whose child are you?'
Fù áa<sup>n</sup> ànô'on bíigà_?
2S be who
              child CQ
                                        'Who has seen?'
Ànɔʻɔnì "yέ?
who_+
         see_CQ
Ànɔ̂'ɔn kà day la "yέ?
                                        'Whom has the man seen?'
who
       and \, man the see_CQ \,
Fù yυ'υrέ_?
                                        '[What is] your name?'
2S name CQ
                                        'Why are you crying?'
Bó kà fù kúmmà_?
what and 2S weep.Ipf CQ
```

Polar questions have the form of statements (with nε´ permitted as usual) followed directly by the polar-question enclitic (expecting agreement), by kύυ_? 'or?' (expecting agreement), or by bέε ? 'or?' (expecting disagreement):

Day la nyé bíigàa_?	'Has the man seen a child?'
man the see child_PQ	
Ṁ̃ á nε dáὺυ_?	'Am I a man?'
1S be Foc man_PQ	
Bà kùud nɛ búusèɛ_?	'Are they killing goats?'
3P kill.Ipf Foc goat.Pl_PQ	

```
Fò pυ wómmàa__?
'Don't you understand?'
(expects εε<sup>n</sup>, here "no")

Day la nyé biig kóυ_?
man the see child or_PQ
'Has the man seen a child?'
(I expect so.)

Day la nyé biig béε_?
'Has the man seen a child?'
(I expect not.)
```

10.3.2 Commands

For indirect commands, see \$10.6 \$10.7. In direct commands, 2S pronouns are deleted, and 2P moves to follow the verb directly as the liaison word $_{\text{Va}}$:

	Fù gós biig la. 2S look child the	'You (Sg) have looked at the child.'
	Yà gós biig la. 2P look child the	'You (Pl) have looked at the child.'
but	Gòsìm biig la! look.Imp child the	'Look (Sg) at the child!'
	Gɔ̀sìmı_ biig la! look.Imp_2P2 child the	'Look (Pl) at the child!'
	Da gos biig láa_! Ng.Imp look child the_Ng	'Don't (Sg) look at the child!'
	Da gɔsı_ biig láa_! Ng.Imp look_2P2 child the_Ng	'Don't (Pl) look at the child!'
	Da gɔsɛ_! Ng.Imp look_Ng	'Don't (Sg) look.'
	Da gɔsı_yá_! Ng.Imp look_2P2_Ng	'Don't (Pl) look.'

2S/P subjects remain unchanged after clause adjuncts and in content clauses:

```
Fu ya'a mɔr pu'a, fun da mɔɔd ye fu bas oo.
Fù yá' mɔr pua', fun da mɔɔd yé fù báso_o_.

2S if have wife 2S Ng.Imp struggle.Ipf that 2S abandon_3A_Ng
'If you have a wife, don't try to leave her.' 1 Cor 7:27
```

```
ka siak ye fo tikim nu'ug 'and agreed that you sign' Dn 6:7
kà siák yé fò tìkìm nû'ug
and agree that 2S press.Imp hand
```

Some speakers add ya redundantly in catenatives and quoted commands:

```
Kèmı_ na_ gɔsı_! 'Come (Pl) and look!'
come.Imp_2P2 hither_+ look_2P2 (Kèmı_ na_ gɔs! W)

Ò yèl yé bà gòsìmı_ tenı_n. 'He said to them: Look down!'
3A say that 3P look.Imp_2P2 down
```

Direct commands consisting of a verb alone or with a following postposed subject pronoun sometimes end in a LF like that preceding a negative enclitic:

```
Gosima! 'Look!' Gn 20:16

Gosimiya, nidib la wusa dol o ne!

Gòsìmɪ_yá, nidib la wúsà dòllo_ ne!

look.Imp_2P2 person.Pl the all accompany_3A Foc

'Look!' All the people are following him!' Jn 12:19
```

10.3.3 Conditionals

Conditional clauses have a yà'-clause protasis as a clause adjunct. The main clause can be a statement, command or question. Protases cannot be coordinated, but there may be several in a main clause; they are occasionally dislocated to clause-final position, due to weight §11.4.

```
Fò yá' gɔs kpɛlá, bɔ́ kà fò "yɛtá_? 'If you look here, what do you see?' S
2S if look here what and 2S see.Ipf_CQ

Ka ligidi la ya'a pɔ'ɔg, m ya'a ti lɛb na, m na yɔɔf.

Kà ligidi la yá' pɔ'ɔg, m̀ yá' tì lɛ̀b na, m̀ ná yɔ́ɔ_f.

and money the if get.small 1S if next return hither 1S Irr pay_2S

'If the money runs short, after I return I will repay you.' Lk 10:35
```

```
Dinzug li naan a su'um ba ya'a pu du'an dau kaŋaa.

Dìn zúg lì naan án sú'm bà yá' pu dû'a_n dán-kàŋáa_.

so 3I then be goodness 3P if Ng bear_DP man-Dem_Ng
'So it would have been better for him not to have been born.' Mk 14:21 B2
```

Yà'-clauses express tense independently. They can have irrealis mood, but an indicative event-perfective need not have past reference:

```
Fu ya'a na dollimi keŋ, m na keŋ. 'If you will go with me, I will go.' Jgs 4:8
Fù yá' nà dollí_mı_ keŋ, m ná keŋ.

2S if Irr accompany_1S_+ go 1S Irr go

M ya'a pu keŋɛ, Suŋid la ku kɛɛn ya ni naa.
M yá' pu keŋɛ, suŋıd la ku kɛɛn ya ni naa.

N yá' pu keŋɛ, suŋıd la ku kɛɛn ya ni naa.

1S if Ng go_Ng helper the Ng.Irr come 2P at hither_Ng

'If I do not go, the Helper will not come here to you.' Jn 16:7
```

The main clause must have an unellipted subject. Direct commands keep a subject pronoun in place; some speakers require a free form:

```
Fυ ya'a mɔr pu'a, fun da mɔɔd ye fu bas oo.

Fù yá' mɔr pua', fun da mɔɔd yé fù báso_o_.

2S if have wife 2S Ng.Imp struggle.Ipf that 2S abandon_3A_Ng

'If you have a wife, don't try to leave her.' 1 Cor 7:27
```

The discontinuous-past enclitic n §9.2 can attach to any verb form except imperatives; it is usually repeated in following catenative clauses. Here it expresses modal remoteness (CGEL pp148ff), describing a hypothetical or unlikely state of affairs; with the preverbal adjunct naan the sense is contrary-to-fact. This naan 'in that case' is distinct from "yaan 'next, then' (though naan often appears for "yaan in older texts) and from the 2Vb naan 'starting at ... do' §10.4.2.

Open conditional clauses contain neither n nor naan. If the main clause has present or future reference, the yà'-clause may correspond to either 'if' or 'when' in English, but past-reference 'when' is expressed with absolute clauses §10.5.1.

```
Fù yá' sịàk, tì ná digulí_f.

'If you agree, we'll put you to bed.'

if agree 1P Irr lay 2S

(i.e. admit you to hospital.)
```

Ka Kristo ya'a da ρυ νυ'υg kuminε, alaa ti labasuŋ la mɔɔlug la anε zaalim.

Kà Kristo yá' dà ρυ νυ'υg kumι nέ, àláa tì làbà-sùŋ la

and Christ if Tns Ng revive death_at_Ng thus 1P news-good the mɔ́ɔlùg la á nɛ zaalím.

proclaim.Gd the be Foc emptiness

'If Christ did not rise from death, our preaching is empty.' 1 Cor 15:14

Nid ya'a tum tuuma, o di'ed yood. 'If a person works, he gets pay.' Nid yá' tùm tuuma, ò dì'ed yood. Rom 4:4

person if work.Ipf work.Gd.Pl 3A receive.Ipf pay

Bεog ya'a nie fu na wum o pian'ad.

Bεog yá' nìe, fò ná wóm ò pịà n'ad.

tomorrow if appear 2S Irr hear 3A speech

'When tomorrow comes, you will hear his words.' Acts 25:22

Hypothetical conditionals use n in both clauses, irrealis without naan in the main clause. B2/3 often use open conditionals instead.

Nobir ya'a yelin ye, on pu a nu'ug la zug, o ka' ningbin nii, lin ku nyanin keen ka o ka' ningbin nii.

```
Nóbìr yá' yὲlι_n ye, ón pu á<sup>n</sup> nû'ug la zúg, ò ka' nín-gbiŋ níι_, leg if say_DP that 3A.Nz Ng be hand the on 3A Ng.exist body at_Ng lɪn kύ <sup>n</sup>yaŋı_n_ kέε_n kà ò ka' nín-gbiŋ níι_.

DemI Ng.Irr accomplish_DP_+ let_DP and 3A Ng.exist body at_Ng
```

'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 B1

Wief ya'a sigin li ni, li zuluŋ na paaen o salabir.

Wìef yá' sigí_n lì nı, lì zùlùŋ ná páa_n ò sàlìbìr.

horse if descend DP 3I at 3I depth Irr reach DP 3A bridle

'If a horse went down in it, its depth would reach its bridle.' Rv 14:20 B1

Contrary-to-fact conditionals use n in both clauses, naan in the main clause; past contrary-to-fact main clauses may instead use past-tense irrealis:

Man ya'a ρυ kεεn na tu'asini ba, ba naan kυ mɔrin taalε.

```
Man yá' pυ kεε_n na_ tú'asι_ní_ba, bà naan kú mɔrι_n tâallε_.
```

 $1S \qquad \text{if} \quad Ng \ come_DP \ hither_+ \ talk_DP_3P \qquad \quad 3P \quad then \quad Ng.Irr \ have_DP \ fault_Ng$

'Had I not come to speak to them, they would not have been guilty.' Jn 15:22

```
M ya'a mɔrin su'ugu m nu'ugin m naan kuunif nannanna.
M yá' mort n só'ugò m nú'ugt n, m naan kuu ní f nannánna.
1S if have DP knife 1S hand at
                                 1S then kill DP 2S now
'If I'd had a sword in my hand, I'd have killed you right now.' Nm 22:29
Bɔzugɔ Josua ya'a da tisini ba vυ'υsυm zin'ig, Wina'am da kυ lɛm pian'
dabis-si'a yɛla ya'asɛ.
Bɔ zúgɔ Josua yá' dà tìsι ní ba vυ'υsím zîn'ig, Wínà'am dá kờ lɛm pian'
        Joshua if Tns give DP 3P rest.Gd
                                         place
                                                God
                                                        Tns Ng.Irr again speak
dábìs-si'a yélà yà'ase .
day-Idf
         about again Ng
'For if Joshua had given them a resting place, God would not subsequently
have spoken of another day.' Heb 4:8
Yà' naan means 'if only', yà' pùn 'even if':
M zugdaan la ya'a naan siaki ken nyeen nodi'es la be Samaria la!
M zug-dâan la yá' naan siákì keŋ nyεε n nó-dî'es lá bè Samaria la!
            the if then agree + go + see DP linguist the Nz exist Samaria the
'If only my master would agree to go to see the prophet in Samaria!' 2 Kgs 5:3
Li ya'a pun du'a, saam na dii li.
Lì yá' pòn duà', sáam ná duì lí.
3I if already bear stranger.Pl Irr eat_3I
'Even if it bears a crop, strangers will eat it.' Hos 8.7
Modal n and naan also occur outside conditionals; naan ... n is contrary-to-fact.
Bòodi n appears in main clauses as 'might wish':
M naan boodin ye fu aannε m taun
M naan bóodι n yé fù âa n né m tay<sup>n</sup>
1S then want.Ipf DP that 2S be DP Foc 1S opposite-sex-sib
'I might have wished that you had been my brother.' Sg 8:1
Naan may be effectively equivalent to ya' 'if/when':
Li an sum ye dau yinne naan kpi nidib la yela gaad ...
Lì à sóm ye day yınnı naan kpi nidib la yélà gàad ...
3I be good that man one then die person.Pl the about + pass
```

'It is better if one man should die for the people than ...' Jn 11:50

```
Noŋir lem kae' gaad nidi naan kpi o zuanam zugo.
```

```
Nònìr lém kae'_ gâad nidí_ naan kpí ò zuà-nàm zúgo_.
```

love again Ng.exist_+ pass person_Nz then die 3A friend-Pl on_Ng

'There is no love greater than if a person dies for his friends.' Jn 15:13 B2

In older texts naan often represents "yaan 'next, then' in coordinated clauses:

Fu na ki'is man noor atan' ka noraug naan [nyaan B3] kaas noor ayi.

Fù ná kưàs man nóor àtán kà no-dâug nyaan kaas nóor àyí.

2S Irr deny 1S time three and cock next cry time two

'You will thrice deny me before the cock crows twice.' Mk 14:30 B2

10.3.4 Verbless

Lìa (dia B1; Mampruli lee) 'where is?' follows a NP subject:

```
Fù mà la lía_? 'Where is your mother?' W (overheard)
```

2S mother the be.where CQ

Ka awai la dia? 'But where are the nine?' Lk 17:17 B1

Kà àwae la lía_?

and nine the be.where_CQ

Possibly lìa should be regarded as a highly defective *verb*; however, it never appears with any verbal particles.

Vocatives consist of NP + vocative enclitic §4.3, alone or beside a main clause:

```
M diemma_, bɔ́ kà fù kúosìdà_? 'Madam, what are you selling?'

1S parent.in.law Voc what and 2S sell.Ipf CQ (to a stallholder)
```

Lem na, fun kane an Sulam ten nida!

```
Lèm na, fun-kánì à Sulam tén nìda!
```

 $return.Imp\ hither\ 2S\text{-}Dem_Nz\ be\ Shulam\ land\ person_Voc$

'Return, O Shulammite!' Sg 6:13

Vocatives do not take the article, but often end in "wà 'this': zɔn "wá_! 'fools!' Some **particles** constitute complete utterances. Some are onomatopoeic, like báp 'wallop!'; others common to many local languages, like tò 'OK', n̂fá 'well done!' 'Yes' is $\epsilon\epsilon$ "; 'no' is áyìι. The reply agrees or disagrees with the question: thus the reply to lì pu naée ? 'isn't it finished?' may be $\epsilon\epsilon$ " 'no' or áyìι 'yes.'

10.3.5 Ellipsis of main clauses

In certain cases, a main clause may be partly or entirely ellipted, leaving just a subordinate or catenative clause or a NP as a complete utterance.

It is common in informal speech to omit main clauses in **indirect commands**; the initial clause-linking particle of the (co)subordinate clause is usually also ellipted. Thus with kèl kà 'let' before a catenative §10.4.2, m/fù bɔɔd ye 'I/you want that' before a purpose clause §10.6, or m tên'ɛs ye 'I think that' before a content clause §10.7:

M gos nif la. 1S look eye the	'Let me look at the eye.' (overheard) catenative
Ò sáa 'wè' bùŋ la. 3A Tns hit donkey the	'Let him hit the donkey tomorrow.' purpose
M d(gìnὲε_? 1S lie_PQ	'Am I to lie down?' (overheard) purpose
Ò gòsìm tenun. 3A look.Imp ground_at	'She should look down.'
Tì pứ'usìm Wínà'am. 1P praise.Imp God	'We should praise God.' content

Lì à nɛ 'it is' is omitted before a NP with a **focusing deictic** §11.3. Ellipsis is not invariable, but cases without ellipsis are unusual with positive polarity:

```
Li ans Wina'am nid ons ki'is Zugsob pian'ad la, la.

Lì à ns Wínà'am níd ònì_ kı'ıs Zug-sób pjân'ad la_ la.

3I be Foc God person DemA_Nz refuse Lord word.Pl the_that

'This is the man of God who refused the Lord's word.' 1Kgs 13:26

but Zaansuŋ sob la nwana kenna! 'Here is the dreamer coming!'

Zàansuŋ sób la_wána kén na! Gn 37:19

dream ØA the_this.here come.Ipf hither
```

It is likely that both the focusing of clause subjects with n and the foregrounding of other NPs with kà §11.1 arose historically by a similar ellipsis of all but the last NP of a main clause, but these constructions are not elliptical synchronically. Similarly, Hausa focus constructions like *Yaarònkà mukà ganii* 'It was your boy that we saw' are argued to be monoclausal in Green 2007, 4.2.3.

10.4 Catenative

A clause may be followed by one or more VPs introduced by n (see §4.4 for the various realisations of this particle.) There are many parallels with verb serialisation: for example, substituting kà for n may block specialised verb uses. Thus

```
M daa kûos bùŋù_ tís dú'atà. 'I sold a donkey to Doctor.'

1S Tns sell donkey + give doctor
```

with kà for n means 'and gave it to Doctor.' By the criteria of Aikhenvald 2018 these are not serial verb constructions, as there is a linking particle, but these criteria have not been universally accepted, and the Toende Kusaal equivalent of n is in fact zero. However, adjuncts and even kà-clauses may appear before n:

```
Ka dau so' due n zi'e la'asug la nidib sisoogin, n a Farisee nid ka o yu'ur buon Gamaliel, n a one pa'an Wina'am wada la yela

Kà dày-sɔ' due n zí'e lá'asòg la nidib sísòvgv_n, n án Farisee níd

and man-IdfA rise + stand gather.Gd the person.Pl among + be Pharisee person

kà ò yv'vr bûon Gamaliel, n án ónì_ pà'an Wínà'am wádà la yélà

and 3A name call.Ipf Gamaliel + be DemA_Nz teach.Ipf God law the about

'A man stood up in the assembly, a Pharisee called Gamaliel, a teacher of

God's law' Acts 5:34 B2
```

Accordingly, it is preferable to take n+VP as a "catenative" clause (cf CGEL pp1176ff), with an ellipted subject coreferential with that of the preceding clause. (Cf also Delplanque 2012 pp126ff on Dagara.) Though the first clause will be referred to as the "main" clause, the relationship is not subordination but cosubordination (see below); the main and catenative clauses together constitute a "catenation."

By default, a catenative clause linked with n functions as an attribute of the main clause subject, like a participle or non-restrictive relative clause.

```
Fu zi'el nɔɔri yɛl ye
'You have promised, saying ...' 1 Kgs 8:25
Fù zî'el nɔɔrı_ yɛ́l ye
3S set.up mouth_+ say that
```

Catenatives with ae be redicative:

```
ka o ya'am tiaki an su'um. 'and his mind changed for the better.' kà ò ya'am tiákì_ à^n sú'm. Mk 5:15 and 3A sense_change_+ be goodness
```

The particle kà can coordinate clauses, including clauses which follow n §10.2. However, kà-clauses are very frequently *cosubordinate*, with functions clearly parallel or complementary to those of n-clauses: these too will be classified as catenatives.

For example, kà normally replaces n if the polarity changes:

```
Ka pu'a sɔ' daa bɛɛ anina bɛn'ɛd 'There was a woman there who was sick' Kà pu̯à'-sɔ' daa bɛɛ ànína_ bɛ̂n'ɛd Mt \ 9:20 and woman-IdfA Tns exist there + get.sick.Ipf
```

but Ka dau daa zin'i Listra ni ka pu tun'e kenna.

Anina ka o nyε dau ka o yv'vr buon Aneas. Àniná kà ò nyε dáy kà ò yv'vr bûon Aneas.

```
Kà day daa zín'i Listra ní kà pu tun'e_ kenná_.

and man Tns sit Lystra at and Ng be.able_+ go.Ipf_Ng

'There was a man in Lystra who could not walk.' Acts 14:8 B2
```

Exceptions do occur (further undermining any analysis as verb serialisation):

```
ya sieba bε kpεla kυ kpii asεε ba ti nyε Wina'am na'am la.
yà sieba bέ kpεlá_ kύ kpii_ àsέε bà tí "yε Wínà'am nâ'am la.

2P IdfP exist here_+ Ng.Irr die_Ng except 3P Next see God kingdom the
'There are some of you here who will not die without seeing
the kingdom of God.' Lk 9:27 (B2 ya sieba be kpela n ku kpii)
```

However, the usual reason for replacing \boldsymbol{n} with $k\grave{a}$ is a **change of subject**.

For example, a kà-catenative can be attached to a main-clause NP anchor other than the subject, again with a meaning like a non-restrictive relative clause. If the anchor is not the catenative clause object, a resumptive pronoun is used; if this pronoun is the catenative clause subject, the meaning is predicative:

```
there and 3A see man and 3A name call.Ipf Aeneas
'There he found a man whose name was Aeneas.' Acts 9:33

Zi', ka dau la siigi la ka o gban'e mori kul.

Zi'ı, kà day la síugì_lá kà ò gban'e_ morı_ kul.

Ng.know_Ng and man the life.force_that and 3A grab_+ have_+ go.home
'Unbeknownst, that was the man's life force he'd taken home.' G2 p26

M daa pu nyɛ day lá kà ò án ná'aba_. 'I didn't see the man as a chief.' K

1S Tns Ng see man the and 3A be chief_Ng
```

ka la'am maan gigis ka ba wum ka pia'ad. kà lâ'am màan gigìs kà bà wúm kà pian'ad. and together make.Ipf dumb.Pl and 3P hear.Ipf and speak.Ipf 'and also makes the dumb hear and speak.' Mk 7:37 B1

Before the non-specific subject bà 'they', n may occur instead of kà §8.2.

Another example is the use of kà-catenatives after verbs of perception; here the subject usually differs from that of the main clause, but need not do so.

```
Fυ kυ wυm ka ba pian'ad bεε yεt si'ela

Fὺ kύ wύm kà bà pịan'ad bεε yέt si'ela_

2S Ng.Irr hear and 3P speak.Ipf or say.Ipf IdfI_Ng

'You will not hear them speaking or saying anything.' Ps 19:3
```

Catenations behave as single units for focus §11.1. Aspects usually agree. Tense particles are never repeated, but discontinuous-past n usually is. Moods usually agree, but after an indicative, irrealis or imperative may express purpose:

```
Sɔ' da kae paŋi na nyaŋ oo.

'None had the power to overcome him.'
Sɔ' dá ka' páŋì_ ná "yaŋó_o_.

IdfA Tns Ng.have power + Irr prevail 3A Ng
```

The main clause is often semantically subordinate (see §10.4.2). This can also occur because the ordering of Pfs in catenation must reflect event order:

```
Ka Ninsaal Biig la kena dit ka nuud

Kà Nin-sâal Bîig la ke na_ dít kà nuud

and human child the come hither_+ eat.Ipf and drink.Ipf

'And the Son of Man came eating and drinking' Mt 11:19
```

but Ka dapa ayi' yε fupiela zi'e ba san'an.

```
Kà dapá àyí yế fu-píelà_ zì'e bà san'an.

and man.Pl two don shirt-white.Pl_+ stand 3P by
'Two men dressed in white were standing with them.' Acts 1:10
```

Polarity need not agree across a catenation; see above, and also e.g.

```
Li pv yuugɛ ka Yesu tv'vsi ba pv'vsi ba.
Lì pv yúugɛ_, kà Yesu tv'vsi_ba_ pó'vsì_ba.
3I Ng delay_Ng and Jesus meet_3P_+ greet_3P
'Not much later, Jesus came to greet them.' Mt 28:9
```

The question arises whether kà in these constructions could not simply be regarded as coordinating. However, the negative enclitic induced by the negation of the preceding clause usually follows the catenative: this would be surprising for coordination without gapping (cf CGEL p791):

M daa ρυ η yε day lá kà ò á ná ná laba. 'I didn't see the man as a chief.' K

1S This Ng see man the and 3A be chief_Ng

Moreover, kà-clauses used in ways parallel or complementary to clauses with n are consistently of the type analysed as cosubordinate in Foley and Van Valin 1984; significantly, this work also classifies the serial verb constructions of Yoruba and Twi as cosubordinate (p261.) The fact that with both types of catenative either the first or second clause may be *semantically* subordinate suggests a fundamental similarity, and itself suggests a relationship which is not simply subordinating.

In Role and Reference Grammar, for a nexus to be classified as cosubordinate there must be at least one compulsorily shared "operator" (Van Valin 2021 p248): as has been seen above, in Kusaal this cannot be aspect, mood or polarity. However, tense markers only ever appear in the initial clause, and apply to all subsequent catenatives. Foley and Van Valin 1984 (pp208ff) describe tense as cross-linguistically an operator at the level of the "periphery", consistent with an analysis of Kusaal catenation as a nexus of clauses rather than verbs or predicates.

This role for tense raises the question of the status of narrative kà-clauses without tense marking §9.2.1 (cf Ross 2021, 3.1.3), but these show systematic syntactic differences from catenatives. Catenations are single units for focus, but only temporal focus is restricted in narrative kà-clauses §11.1. Narrative kà-clauses may omit subject pronouns coreferential with the subject of the preceding clause (and kà directly followed by a tense marker is always coordinating), but in kà-catenatives subject pronouns are only ellipted immediately before negative preverbal particles:

```
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
```

```
Àmáa bà yé lì nár kà bà yis ligidi la n ken_ dá' daam_ ná nu yiigá kà nyaan `but 3P that 3I must and 3P extract money the + go_+ buy beer_+ Irr drink firstly and next pudig ligidi la. Kà yis ligidi la bi'elá
```

share money the and extract money the a.little

'But they said they should take some money out to buy beer to drink first, and then share out the money. And they took out a little of the money' §13.1

```
but Haga da nyɛ ka o mɔr pvvg la
Haga_ dà <sup>n</sup>yɛ́ kà ò mɔr pvvg la
Hagar_Nz Tns see and 3A have belly the
```

'when Hagar saw she was pregnant' Gn 16:4

10.4.1 Specialised verbs in catenatives

M daa kûos bùŋù_ tís dú'atà.

1S Tns sell donkey_+ give doctor

In catenatives, many verbs have adverb- or preposition-like meanings. Thus often with verbs of movement or state change:

'I will drive demons out of people' M na kad kikirisi yis nidibin M ná kad kíkirist yis nidibí n Lk 13:32 1S Irr drive fairy.Pl_+ expel person.Pl_at Ka o gaadi kpɛn' Rakɛl dɔɔgin la mɛn. Kà ò gáadì_ kpèn' Rakɛl dɔ́ɔgɪ_n la mén. and 3A pass + enter Rachel hut at 'He went on into Rachel's tent too.' Gn 31:33 'right up until today' halí n tì pae ziná until + then reach today Ò dù tıg. 'She's eaten to satiety.' 3A eat + get.sated Ò dìu gálìs. 'She's eaten too much.' 3A eat + exceed Ò dù nae. 'She's finished eating.' 3A eat + finish Gàad 'pass, surpass' is used in comparisons, e.g. Fu sid non mam gat bamaa? 'Do you really love me more than these?' Fù síd nòn mam_ gát bámmáa_? Jn 21:15 2S truly love 1S + pass.Ipf DemP PQ À Wın gim 'Awini is shorter than Abugri.' S gát à Bugur. Pz Awini be.short + pass.Ipf Pz Abugri Tis 'give' is used for 'to, for'; the meaning need not imply any giving:

'I sold a donkey to Doctor.'

N "wen_{na}" 'resembling' (where n is usally realised as zero) can even be preposed or dislocated like an adverbial:

```
Nwεnε fun yεl si'em la, fu mε ku lɛn nyεε ma!

"Wɛn nɛ fún yὲl si'em la, fù mɛ́ kú lɛm "yɛ́ε_ma_!

be.like with 2S.Nz say how the 2S also Ng.Irr again see_1S_Ng

'As you have said, you too will not see me again!' Ex 10:29
```

10.4.2 Specialised verbs before catenatives

day.Pl seven and 2S have 3A + come hither

Many verbs have specialised auxiliary senses in main clauses preceding semantically-main catenative clauses. (See also on clefting §11.4.)

Bè ànína 'exist there' with an Ipf catenative means 'be in the process of':

```
Ò bà ànína n nwê's d biig la. 'He's currently beating the child.'

3A exist there + beat. Ipf child the
```

Bɔ̀ɔda 'want to' usually takes a purpose clause with ye §10.6, but may take a following catenative (cf also bɔ̀ɔda + gerund 'be about to' §9.2):

```
Mam pu boodi basi fo.
                                       'I do not want to leave you.' Dt 15:16
Mam pu bóodì básì fo.
     Ng want.Ipf + leave 2S Ng
1S
Gosim on boodi nin si'em nyeem taal!
Gòsìm ón bòodì nín si'em nyée m tâal!
look,Imp 3A.Nz want.Ipf + do how + find 1S fault
'Look how he is trying to find me at fault!' 2 Kgs 5:7
Dol<sub>la</sub> 'accompany', mor<sub>a</sub> 'have' before motion verbs mean 'go with', 'bring':
                                       'They've gone to Bawku with her.'
Bà dòllo
                ken Bók.
3P accompany _3A_+ go Bawku
Dabá àyópòe kà fù moró ke na.
                                       'Bring her here in a week.' W
```

Dolus´ 'follow, trace, accord with' takes an object referring to a path rather than a person (also e.g. X nɔ́bà 'X's track.') It is often metaphorical, as in 'follow an order.'

```
Suobo ka fo na dolise?
                                         'What method will you follow?'
Sua-bó kà fù ná dolisé?
                                          1 Kgs 22:22
path-what and 2S Irr follow CQ
                                         'I follow all his law' 2 Sm 22:23
M dolisid o wada la wusa
M dólisid ò wadá la wusa
1S follow.Ipf 3A law
                  the all
ka zoo dolis zanguom la.
                                         'and ran alongside the wall.' Jl 2:9
kà zóo dolis zángùom la.
and run + follow wall
                        the
Ban da kaali dolisi ba za'as la
                                         'those counted by their families'
Bán dà kaalı dolisí bà zà'as
                                          Nm 4:36
                                  la
3P.Nz Tns count + follow 3P compound.Pl the
```

Dolus (n yi) X nu/san'an n ... means 'by means of X', where X is a person; kà replaces n if the subject changes. The order of the clauses is sometimes reversed.

```
O εεnti pu dolisid tinam san'anε pian'ada?
Ò εε<sup>n</sup> tí pv dolisíd tinám sa<sup>n</sup>'ani_ pia<sup>n</sup>'adá_?
3A habit Ng follow.Ipf 1P
                                    speak.Ipf PQ
                           by +
'Hasn't he also spoken through us?' Nm 12:2
Zugsob la da dolis o nodi'esidibin tis noor kana.
Zug-sób la dá dòlìs ò no-dí'esìdìbı n tís noor-kána.
         the Tns follow 3A linguist.Pl at +
                                        give mouth-Dem
Lord
'The Lord gave this command through his prophets' 2 Chr 29:25
bozugo Zugsob la da dolis o ni ka Aram dim paam nyanir.
bɔ zúgɔ Zug-sɔ́b la dá dɔ̀lìs ò ní kà Aram dím pâam "yanír.
         Lord
                  the Tns follow 3A at and Aram ØP
because
                                                  obtain prevail.Gd
'because the Lord had given the Aramaeans victory through him.' 2 Kgs 5:1
alaa Zugsob la po pian' dolisi yi man san'ane!
àlá Zug-sób la ρυ pi̯an' dolιsι yi man san'anέ!
thus Lord
             the Ng speak + follow + exit 1S
'then the Lord has not spoken by me!' 1 Kgs 22:28
```

Mi' 'know': nàm mi'/zı' before Pf catenatives mean 'have always/have never':

```
\dot{M} nám zı'_ "yɛ gbıgımnɛ_. "I've never seen a lion.' S
1S still Ng.know + see lion Ng
```

Makir banɛ buudi paadi ya la nan mi' paae sieba mɛn.

Makír-bànì buudi paadí ya la nám mi' pae sieba mén.

test.Gd-DemP Nz sort reach.Ipf 2P the still know + reach IdfP also.

'The kind of trials coming to you have been familiar to others too.' 1 Cor 10:13

Naan´ 'starting from ... do' takes a place NP followed by a catenative:

```
Ka pu'a la da naanε o buŋ la zugu sig la
Kà pua' lá_ dà naanί ò bùŋ la zúgù_ sig la
and woman the_Nz Tns start.at 3A donkey the on_+ descend the
'When the woman had got off her donkey' Jo 15:18
```

Nìn welá 'do how?' here means 'how can?':

```
Ninsaal biig na nin wala pu mor taal Wina'am tuonne?

Nin-sâal bîig nà nin welá_ pu mor tâal Wina'am tuonne.

human child Irr do how_+ Ng have fault God before_Ng_CQ

'How can the child of a human being not have sin before God?' Jb 25:4
```

An impersonal variant has the logical subject in a catenative clause with $k\grave{a}$; more rarely, $k\grave{a}$ replaces n in the personal construction.

```
Li niŋ wala ka o an David yaaŋa?

Lì nìŋ wɛlá kà ò án David yâaŋà_?

Mt 22:45

Mt 22:45

Mt na niŋ wala ka nyɛ faangirɛ?

Mi na niŋ wala ka nyɛ faangirɛ?

Mi na niŋ wɛlá kà nyɛ faangirɛ.?

Thow can I find salvation?' Acts 16:30

Mi ná niŋ wɛlá kà nyɛ faangirɛ.?
```

"Yan´ 'overcome' here means 'prevail in.' Main and catenative clauses agree in aspect. Present ability is usually expressed with the irrealis:

```
M pu "yaŋı_ "wέ' bùŋ láa_. 'I wasn't able to hit the donkey.'

1S Ng prevail_+ hit donkey the_Ng
```

1S pick.up 1S hand_+ touch box the

```
Ṁ kύ "yaŋı "wέ' bùŋ láa .
                                          'I can't hit the donkey.'
1S Ng.Irr prevail + hit donkey the Ng
wada line nyanidi ket ka nidib vue
wadá lìnì "yanídì két kà nidib vue
     DemI_Nz prevail.Ipf_+ let.Ipf and person.Pl live
'a law which can make people live' Gal 3:21
Sua' 'hide' is used for 'secretly':
Ka Na'ab Herod su'a buol baŋidib la
                                          'Herod secretly summoned the wise men'
Kà Nà'ab Herod sua' bûol baŋıdıb la
                                           Mt 2:7
           Herod hide_+ call knower.Pl the
and king
Tun'eva 'be able' is used in the indicative or irrealis to express present ability:
ba daa tis ka li zemisi ba paŋi na tun'e si'em
                            bà pànì
bà daa tís kà lì zemísì
                                         nà tu<sup>n</sup>'e si'em
3P Tns give and 3I become.equal 3P strength NZ Irr be.able how
'They gave as much as their strength would permit.' 2 Cor 8:3
                                          'which cannot be hidden' Mt 5:14
ka li kυ tun'e su'a.
kà lì kύ
         tu<sup>n</sup>'e sua'a .
and 3I Ng.Irr be.able_+ hide_Ng
Ya na tun'e zin' teŋin la nε ti.
                                          'You can dwell in the land with us.'
Yà ná tu<sup>n</sup>'e zí<sup>n</sup>'i teηι n la nέ tì.
                                           Gn 34:10
2P Irr be.able + sit land at the with 1P
O pυ tun'e pian'ada.
                                          'He could not speak.' Lk 1:22
Ò pυ tu<sup>n</sup>'e pia<sup>n</sup>'adá.
3A Ng be.able + speak.Ipf Ng
Zàn and nok´ 'pick up, take' here mean 'using' (a literal instrument):
M nók sú'ugù kiá' nim la.
                                          'I've cut the meat with a knife.'
1S take knife_+ cut meat the
M zání m nú'ugò sı'ıs daká la.
                                          'I touched the box with my hand.'
```

Verbs of beginning often precede semantically-main catenatives:

```
Ka Pita pin'ili pa'ali ba
'Peter began to tell them' Acts 11:4
Kà Pita pin'ili_ pá'alì_ba
and Peter begin_+ teach_3P
Τὶ déŋὶ_ tísò_ lớr.
'We've previously given him a car.'
1P precede_+ give_3A car
Ka dau sɔ' duoe zi'en
'A man got up and stood' Acts 5:34
Kà dàu-sɔ' due_ zî'en
and man-IdfA rise + stand.up
```

 $Z\iota'$ 'not know' is 'unknowingly' before catenatives (with kà due to polarity change.) The construction also occurs without a subject: $z\iota'$ kà 'unbeknownst.'

```
Ka sɔ' ya'a zi' ka tum ... 'If anyone unwittingly does ... 'Lv 5:17

Kà sɔ' yá' zí' kà túm ...

and IdfA if Ng.know and work

See above for lì pυ yúugε_ kà 'not much later ...'

Kà bɛog níe kà is common in B narrative for 'next day':

Ka bɛog nie ka ti keŋ Niapolis teŋin 'Next day we went to Neapolis'

Kà bɛog níe kà tì keŋ Niapolis téŋı_n Acts 16:11

and morning wake and 1P go Neapolis land.at
```

Certain verbs have specialised uses before kà-catenatives specifically. The catenative usually has a different subject from the main clause, but this is not invariable.

K ϵ 'let, leave' is 'let, cause' before catenatives. If the catenative has the same subject as the main clause it takes the reflexive form with $m\epsilon\eta_a$ ':

```
Kɛl ka fu mɛŋ an zanbinnɛ tisi ba ka li yii fu tuum suma ni.

Kὲl kà fù mɛŋ án zanbınnı_ tísì_bá kà lì yíi fù tùum-sùmà ní.

let.Imp and 2S self be sign_+ give_3P and 3I exit 2S work.Gd-good.Pl at

'Let yourself be an example to them by your good works.' Ti 2:7
```

Li da kε ka ba pυ nyaŋi kυυ o.

The mood of the catenative after $k\epsilon$ usually agrees with the main clause, but an imperative may follow an irrealis in the main clause.

```
Ka li ans wada la kst ka tuumbs'sd nyst paŋ.

Kà lì à nś wadá la_ kśt kà tùum-bs'sd nyst páŋ.

and 3I be Foc law the_+ let.Ipf and work.Gd-bad see.Ipf power

'It is the law which lets sin find power.' 1 Cor 15:56
```

```
Lì dà kè kà bà pu "yanı_ kúo__. 2 Kgs 11:2

3I Tns let and 3P Ng prevail_+ kill_3A_Ng

dine na ke ka ba da kpi'ilim. 'which will stop them dying out.' Gn 6:20

Dını_ ná ké kà bà da kpı'ılímm_.

3I + Irr let and 3P Ng.Imp finish Ng
```

'This prevented him from being killed.'

Imperative kèla can be used for first/third person commands:

```
Kὲlí_ kà tì pô'υs Wínà'am. 'Let us praise God.' (or Kὲl kà ...)
let.Imp_2P2 and 1P greet God
Da ké kà dàbiem béε_! 'Don't be afraid.'
Ng.Imp let and fear exist_Ng
```

Kèl kà is often ellipted informally, leaving lack of NSb marking as the only sign that the clause is a command §10.3.5.

Adverbials expressing cause may be subjects (always focused §11.1) of ke:

```
Ka bɔzugu kε ka fu tumim na? 'Why have you sent me here?' Ex 5:22

Kà bɔ zúgὺ_ kέ kà fù túmì_m ná_?

and why_+ let and 2S send_1S hither_CQ
```

The imperative-only 1Vb mit_a (mid B3) + catenative §9.3.1 means 'let not'; B3 omits the negative enclitic. 3rd person subjects occur, but 2S/P subjects are dropped, except after clause adjuncts or in content clauses; 2P2 _{va} is not used.

```
O mid ka o lɛbis bɛɛ tiaki li 'He may not take it back or change it.'
Ò míd kà ò lɛ́bis bɛɛ ti̯áki_lı Lv 27:10

3A beware and 3A return or change 3I
```

Mit ka ya maal ya tuumsuma nidib tuon ye ba gosi.

Mit kà yà mâal yà tùum-sùmà nidib tûon yé bà gɔsɛ_.

beware and 2P do 2P work.Gd-good.Pl person.Pl front that 3P look_Ng

'Don't do your good deeds in front of people so they see.' Mt 6:1 B2

After "y ϵ 'see' and wùm 'hear/smell/feel', catenatives express direct perception of how something is:

Ka Noa yis dinε ligil anruŋ la ka nyε ka teŋ la wusa kudig.

Kà Noa yis dinì_ lìgìl à ròŋ lá kà nyέ kà teŋ la wusa kudig.

and Noah extract DemI_Nz cover boat the and see and land the all dry.up

'Noah uncovered the ark and saw that the ground was dry.' Gn 8:13

(no NSb-Pf ya, showing that the kà-clause is not a content clause)

Bɔzugɔ, o da nyε ka Sela bi', 'For she saw Shelah was grown' Gn 38:14
Bɔ zúgɔ, ò dà nyὲ kà Sela bí, (no NSb-Pf ya)

because 3A Tns see and Shelah mature

Amaa lin an si'em la, ti nam ρυ nyε ka o su'oe si'el mɛkamaa. Àmáa lín à si'em la, tì nám ρυ nyε kà ò su'e si'el mɛkamaa. but 3I.Nz be how the 1P still Ng see and 3A own Idfl whatever_Ng 'But as things are, we do not yet see him owning everything.' Heb 2:8

Gɔsima, m wum ka fu saam yɛli fu bier Esau ye
Gɔ̀sima, m̀ wúm kà fu saam yɛ́li fu bier Esau ye
look.Imp 1S hear and 2S father say 2S elder.sib Esau that
'Look, I've heard your father saying to your brother Esau that ...' Gn 27:6

Ka Josua wυm ka nidib la maan tυkpiidug ka li nwɛnɛ zaba la
Kà Josua_ wúm kà nidib la mâan túkpιιdug kà lì nwɛn nɛ zábà la
and Joshua_Nz hear and person.Pl the make.Ipf tumult and 3I be.like with fight.Gd.Pl the
'When Joshua heard people making a commotion like a fight' Ex 32:17

Fυ kυ wυm ka ba pian'ad bεε yεt si'ela
Fὺ kύ wύm kà bà pịan'ad bεε yέt si'ela_
2S Ng.Irr hear and 3P speak.Ipf or say.Ipf IdfI_Ng
'You will not hear them speaking or saying anything.' Ps 19:3

Ka m li teŋin ka wum ka kukor buolim ye Kà m̀ lí teŋin kà wum kà kukor buolim ye

and 1S fall ground.at and hear and voice call 1S that

'I fell to the ground and heard a voice calling to me that ...' Acts 22:7

The subject of the catenative is not necessarily different from that of the main clause; a catenative subject pronoun referring to the main-clause subject is not ellipted:

Haga da nyε ka o mɔr puug la Haga_ dà nyε kà ò mɔr puug la 'when Hagar saw she was pregnant' Gn 16:4

Hagar_Nz Tns see and 3A have belly the

 $\mbox{ ^nY}\epsilon$ 'see' takes a catenative rather than a content clause, even when literal seeing is not implied:

Rakel n da nyε ka on nε Jakob pv du'ad biis la Rakel n dà nyε kà on nε Jakob pv dû'ad biis la

Rachel Nz Tns see and 3A with Jacob $\,$ Ng $\,$ bear $\,$ child.Pl the

'When Rachel saw that she and Jacob were not having any children' Gn 30:1

However www 'hear' takes a content clause for the sense 'hear that something is the case':

Lin nya'aŋ ka Abraham wum ye o pitu Nahor pu'a Milika du'a biribis.
Lìn nyá'aŋ kà Abraham wúm yé ò pitú Nahor puá' Milika duá' bi-díbìs.

DemI after and Abraham hear that 3A younger.sib Nahor wife Milcah bear boy.Pl

'Later, Abraham heard that his younger brother Nahor's wife Milcah had given birth to sons.' Gn 22:20

M wυm ye diib bε Egipt teŋin M wύm ye dub bέ Egipt téŋı_n 'I have heard that there is food in Egypt.' Gn 42:2

1S hear that food exist Egypt land at

on wom ye Lazarus ka' laafi la, ón wòm ye Lazarus ka' láafi la, 'when he heard that Lazarus was sick' Jn 11:6

3A.Nz hear that Lazarus Ng.have health the

10.5 Nominalised

Clauses can be nominalised by inserting \grave{n} §4.4 (Toende Kusaal ne) after the subject. (See also §8.2.1 for clause *personalisation* after \grave{a} .)

Tense marking is independent, relative to narrative timelines. Focus particles may not be used, but relative clause heads are often preposed. The only possible postdependent is la´, omitted after another la´; VP-final particles may follow it. Negative enclitics are dropped if the clause takes la´ or is not itself clause-final:

```
Nin-bánì_ pv dít ná kpi. 'People who don't eat will die.' W

person-DemP_Nz Ng eat.Ipf Irr die

but M˙ "yé nin-bánì_ pv díta_. 'I've seen people who don't eat.' W

1S see person-DemP_Nz Ng eat.Ipf_Ng
```

10.5.1 Absolute

Clauses with no head-marking pronouns are absolute clauses. They are usually given/implied information, taking la´. Most often, they are time adverbials, expressing past 'when.' Preposed with kà §11.4, they can behave as if *coordinate* with the main clause with regard to tense marking §9.2.1 and pronoun subjects §10.1.

Pf in the absolute clause implies a prior event, Ipf simultaneous:

```
Ka ban yi la, ka Zugsob malek nie o meŋ
Kà bán yi la, kà Zug-sɔ́b máli̯ak nie ò mɛŋ
and 3P.Nz exit the and Lord angel appear 3A self
'After they had left, an angel of the Lord showed himself' Mt 2:13 B2

On daa ¬yɛt sɔ́ŋa, ón daa ᬠbí-lia láa_?
3A Tns see.Ipf well 3A.Nz Tns be baby the_PQ
'Did she see well when she was a baby?' W

Ka ban dit la, Yesu yɛli ba ... 'As they were eating, Jesus told them ...'
Kà bán dìt la, Yesu yɛli ba ... Mt 26:21
and 3P.Nz eat.Ipf the Jesus say_3P
```

Absolute clauses may also be subjects or objects:

```
Diibi da ka' la kε ka kɔ'ɔm la maligim paasid
Dιιbί_ dà ka' la kέ kà kɔ'm la málἰgìm páasìd
food_Nz Tns Ng.exist the let and famine the again add.up
'The lack of food made the famine greater again' Gn 47:13
```

Dine kε ka m a saalbiis zua la anε mam pu sa'amidi ba la'ad ka mε pu diti ba ki la.

Dìnì ké kà mà án sâal-biis zuá la á ne mán po sán amidí bà lá ad

DemI_Nz let and 1S be human.Pl friend the be Foc 1S.Nz Ng spoil.Ipf 3P goods.Pl kà mế pv dítí bà ki láa .

and also Ng eat.Ipf 3P millet the_Ng

'What makes me a friend of human beings is my not spoiling their property or eating their millet.' G1 p20

An absolute clause used as an object sometimes has the sense of a relative clause headed by the subject of the absolute clause:

ye ba ku biig la keng daam la da'ab la yé bà ku biig lá keng daam la dâ'ab la

that 3P kill child the Nz go beer the buy.Gd the

'that they kill the lad who had gone to buy the beer' §13.1

Absolute clauses also appear after prepositions §9.7.3, and before the postposition zug₂′ §9.7.2.4 'because of.'

In B, they caption pictures and precede yɛlá 'about' in section headings:

Ban meed yir

'A house being built' B2

Bán mèsd yir

3P.Nz build.Ipf house

Paul n bɛ Malta la yɛla

'Paul on Malta' B3

Paul n bè Malta la yélà

Paul Nz exist Malta the about

The preverbal adjunct sadıgím 'because, since' appears only after yà' 'if' or n:

O ya'a sadigim an Naazir nid, on mid ka o di ...

Ò yá' sadıgím áⁿ Naazir níd, on míd kà ò dí ...

3A if since be Nazirite person 3A beware and 3A eat

'Because he is a Nazirite, he should not eat ...' Nm 6:4

Amaa on sadigim kpi la, bo ka m lɛm lood noor ya'asɛ?

Àmáa ón sadıgím kpí la, bó kà mì lém lood noor yá'asè?

but 3A.Nz since die the what and 1S again tie.Ipf mouth again_CQ

'But since he has died, why should I still be fasting?' 2 Sm 12:23

10.5.2 Relative

Relative clauses are nominalised with \mathring{n} and internally headed by a pronoun or by a CIF with a dependent pronoun. Any verb argument or NP possessor may be relativised, even from within a subordinate clause. Heads remain in situ, but are often preposed with $k\grave{a}$ §11.4. Clauses with preposing show no \mathring{n} after their subjects.

Heads forming all or part of the subject or of a preposed element are marked with short demonstratives; all others are marked with indefinite pronouns. In Toende Kusaal, indefinites may be subjects: a Nikodɛm, so'one daa tɪŋ a Yeesu ni yu'uŋa 'Nicodemus, who had come to Jesus by night' Jn 19:39; Agolle Nikodemus, onɛ da keŋ Yesu san'an yu'uŋ la.

In older sources (and for W), n only follows clause subjects, but in B3 it follows all head-marking demonstratives, even in subject predependents and preposed heads:

```
O bikanɛ da paas ayi' la
'His second child' 2 Sm 3:3

Ò bì-kànì_ dà pàas àyí la

3A child-Dem_Nz Tns total two the

pu'a kanɛ biigi vve la

puà'-kànì_ biigí_ vve la

woman-Dem Nz child Nz live the
```

Thus, oni_kani_bani_ have now effectively simply become relative pronouns. These forms may even precede other constituents of the subject NP:

```
bunvuya banɛ wusa ken teŋin la.
bun-vúyà bánì_ wusa ken teŋi_n la.
thing-live.Pl DemP_Nz all go.Ipf ground_at the
'all living things which go on the land' Gn 1:28

Ka niŋgbiŋ kanɛ mɛ kpiid na gaad 'And also the body which dies will pass'
Kà nìŋ-gbiŋ-kànì_ mɛ kpìid ná gaad 1 Cor 15:53
and body-Dem Nz also die.Ipf Irr pass
```

Demonstratives are not relatives when not part of the first constituent, and ordinary indefinites may follow demonstrative or precede indefinite heads:

```
on vv'vg ninkan kumin la zug
ón vv'vg nin-kán kumi_n la zúg
3A.Nz revive person-Dem death_at the on
'because he has raised that person from death' Acts 17:31
```

but

```
Wina'am onε gaad si'el wυsa la
                                              'God who surpasses everything.'
      Wínà'am ónì gàad si'el wusa la
                                              Lk 1:35
               DemA Nz pass IdfI all
      God
      พบบ bani gban'ad si'el si'em la
                                              'like a trap seizes something'
      พบบ baŋí_ gban'ad si'el si'em la
                                              Lk 21:35
      like trap Nz seize.Ipf IdfI how
      Indefinites as relative heads may be omitted before ordinal expressions:
      fun gban'e ziin si'a yiiga la
                                              'the first fish you catch' Mt 17:27
      fún gban'e zin-sí'a yiigá la
      2S.Nz catch fish-Idf firstly the
      Paul n sob gbauŋ yiiga daan n tis Korint dim la nwa.
      Paul n sob gbáyn yiigá dàan n tìs Korint dím la nwá.
      Paul Nz write letter
                        firstly owner + give Corinth ØP the this
      'This is the first letter which Paul wrote to the Corinthians.' (B2 heading)
      NPs comprising/containing non-subject heads are often preposed with kà;
resumptive pronouns appear for indirect objects, occasionally animate direct objects,
and heads extracted from NPs, prepositional phrases or subordinate clauses.
      pu'a kanε biig ka Elasia da νυ'υg o kumin la
      puà'-kànì bíig kà Elasia dá νυ'υg kumι n la
      woman-Dem Nz child and Elisha  Tns revive death at the
      'the woman whose child Elisha had raised from the dead' 2 Kgs 8:5
      bikane puug ka o mor la
                                              'the child which she is pregnant with'
      bì-kànì pôug kà ò mor la
                                              ("whose pregnancy she has") Mt 1:20
      child-Dem Nz belly and 3A have the
      one ka ba tis o ka li zu'oe
                                              'one they have given much to' Lk 12:48
              kà bà tísò kà lì zú'e
      ònì
      DemA_Nz and 3P give_3A and 3I abound
      Búraa sō dāa bê ànīa ôn kà mān néōn dāa túm lā.
      Bùdà-sɔ' daa bέ ànína. òn kà man nε on daa túm la.
```

man-IdfA Tns exist there DemA and 1S with 3A Tns work.Ipf the

'There was a man there whom I used to work with.' Spratt, Introduction p40

Non-specific objects are not preposed; nor, usually, are objects of verbs of cognition, perception or communication representing "subordinate interrogatives" (CGEL p1070):

Pu'abi du'a sieba la wusa 'all those whom women have borne'

Pυ'abí duà' sieba la wúsà Lk 7:28

woman.Pl Nz bear IdfP the all

M na tisif fun bood si'el wusa. 'I will give you anything you want.'

M ná tisi_f fún bòod si'el wusa. Mk 6:23

1S Irr give_2S 2S.Nz want.Ipf IdfI all

David da tum so' ye o bu'osi baŋ pu'a la an so'.

David dá tòm sɔ' yé ò bu'osı_ báŋ pua' lá_ àn sɔ'.

David Tns send IdfA that 3A ask_+ discover woman the_Nz be IdfA

'David sent someone to ask and find out who the woman was.' 2 Sm 11:3

Gosim ye fo na baŋ la'abama an so' bonnεε?

Gòsìm yé fù ná baŋ lá'-bàmmá àⁿ sɔ' búnnὲε?

look.Imp that 2S Irr understand item-DemP Nz be IdfA thing PQ

'Can you look and find out whose property these things are?' Gn 38:25

M mi' man gan sieba la. 'I know those whom I have chosen.'

M mí' mán gaŋ sieba la. Jn 13:18

1S know 1S.Nz choose IdfP the

Ón yèl si'el la ka' sídaa . 'What he says is not true' S

3A.Nz say IdfI the Ng.be truth_Ng

Ya baŋ man niŋ si'el la gbinnεε?

Yà báη mán nìn si'el la gbínnèε?

2P understand 1S.Nz do IdfI the meaning CQ

'Do you understand the meaning of what I have done?' Jn 13:12

Tiig walaa bigisid lin an tisi'a.

Tùg wélà bìgìsìd lín à tí-si'a.

tree fruit.Pl + show.Ipf 3I.Nz be tree-Idf

'It is the fruit of the tree that shows what tree it is.' Mt 12:33

M na tumi m Ba' zi'el noor so' yela la tisi ya.

M ná tumí m Bá'_ zì'el nɔɔr sɔ' yɛ́là_ tísì_ya.

1S Irr send 1S father_Nz stand mouth IdfA about_+ give_2P

'I will send whom my Father made a promise about to you.' Lk 24:49

Preposing is usual for specific objects of other verbs, but is not mandatory:

Gbaun kane ka ba da sobi tisi ba la nwa.

Gbàun-kànì kà bà dá sɔbı tísì ba la nwá.

letter-Dem Nz and 3P Tns write + give 3P the this

'This is the letter that they wrote to them.' Acts 15:23

bàn kà nà'ab la ⁿwέ' la

'those whom the chief hit' W

DemP and chief the hit the

but.

niŋkanε ka ba gban'e o la nin-kánὶ kà bà gbán'o la

nin-kánì kà bà gbáⁿ'o la person-Dem Nz and 3P seize 3A the 'a person whom they have seized'

Acts 25:16

linε ka Kristo bood ye ti pian' la lìnì_ kà Kristo bôod yé tì pịan' la

DemI Nz and Christ want.Ipf that 1P speak the

'what Christ wants us to say' 2 Cor 12:19 (B2 **lin ka** Kiristo bood ye ti pian' la)

Fun bood ye fu ku dau so' la ya'a kpi 'If the man you want to kill dies' Fún bòod yé fù ku dáu-so' la yá' kpì 2 Sm 17:3

2S.Nz want.Ipf that 2S kill man-IdfA the if die

25.112 Want.ipi that 25 km man-idiA the ii die

Kem tu'us Samaria na'abi tum ninsieba la na

Kèm_ tu'us Samaria ná'abì_ tùm nin-síebà la na

go.Imp_+ meet Samaria king_Nz send person-IdfP the hither

'Go and meet the men sent by the king of Samaria' 2 Kgs 1:3

Nannanna, yaname daa sob gbaun si'a la ka m sobidi lebisidi ya.

Nannánna, yanámi_ daa sɔb gbáun-si'a lá kà m sɔbɪdı_ lɛ́bisidı_yá.

Now 2P Nz Tns write letter-Idf the and 1S write.Ipf + reply.Ipf 2P

'Now, it's the letter you wrote that I'm writing back to you about.' 1 Cor 7:1

On gan dau so' la o na ke ka o keen o tuon na.

Ón gan dáυ-sɔ' la, ò nà ké kà ò kéεⁿ ò tùon na.

3A.Nz choose man-IdfA the 3A Irr let and 3A come 3A before hither

'The man he has chosen, he will make come before him.' Nm 16:5

Adverbials are not usually preposed; most exceptions involve place NPs. Si'el_a is often 'where'; in B2, 75% of CIFs before si'a express time or place. Locative $n/n\iota$ does not follow heads, but may follow entire clauses to express rest at a place.

```
yikan ka mam Paul be la
                                        'the house where I, Paul, am'
                                         Rom 16:23 B1
yi-kán kà mam Paul bέ la
house-Dem and 1S
                  Paul exist the
ka mori fu keŋ zin'ikanε ka fu pu booda.
kà morí fò ken zín'-kànì kà fò po bóoda.
and have 2S + go place-Dem Nz and 2S Ng want.Ipf Ng
'and take you where you do not want.' In 21:18
M diemaa, li ya'a ang fung zan o ningbin la, fun yalim fun nin li si'el
M diemma_, lì yá' à ne funt_ zán ò nin-gbin la, fun yéltm_m fún nini_lt si'el
1S in.law Voc 3I if be Foc 2S + take 3A body
                                             the, 2S say.Imp 1S 2S.Nz do 3I
'Sir, if it was you that took his body, tell me where you have put it.' Jn 20:15
winnigi yit si'el hali ti paae on lut si'el la
wìnnìgì yit si'el halí tì pae ón lùt si'el la
         exit.Ipf IdfI until + next reach 3A.Nz fall.Ipf IdfI the
sun Nz
'where the sun rises to where the sun sets' Ps 65:8
M Zugsoba, ti zi' fun ken zin'isi'a la.
M Zug-sóba , tì zı'
                        fún ken zín'-si'a láa .
1S Lord Voc
              1P Ng.know 2S.Nz go.Ipf place-Idf the Ng
'My Lord, we don't know where you are going.' In 14:5
Ka bugum nie on be doog si'a la ni.
Kà bùgúm níe ón bè dó-si'a la ní.
and fire
          appear 3A.Nz exist room-Idf the at
'And fire illuminated the room where he was.' Acts 12:7 B2
Abraham da nan kae sansi'a la, ka man ρυη bε.
Abraham dà nàm kae' san-sí'a la kà man pón bè.
```

Abraham_Nz Tns still Ng.exist time-Idf the and 1S already exist 'Before Abraham existed, I already existed.' Jn 8:58

1S.Nz Irr do how

1S seize

Si'em 'somehow' is common as 'how' or as abstract 'what'; it is never preposed. A following article la´ marks old information, as usual:

M mí' mán nà nin si'em. 'I know what to do.' 1S know 1S.Nz Irr do how M mí' mán nà nin si'em la. 'I know what I'm to do.' (W: "You 1S know 1S.Nz Irr do how the explained the plan earlier; this is my reply when you ask if I remember it") Bà nà yell f fón nà niŋ si'em. 'They'll tell you what to do.' 3P Irr tell 2S 2S.Nz Irr do how Bà yèlo bán nìŋ si'em la. 'They told him what they'd done.' 3P say 3A 3P.Nz do how 'I've decided what to do.' M gbán'e mán nà nin si'em.

So too ón bòɔd si'em 'as he may wish' versus lín àn si'em la 'as things are.' Là'am nε or halí nε with a si'em clause means 'although' §9.7.3.
Si'em clauses may follow gàad 'surpass' to compare actions:

Mam tum bedegu gaad ban tum si'em la.

Mam túm bédùgu_ gâad bán tùm si'em la.

1S work much_+ pass 3P.Nz work how the

'I've worked much harder than they have.' 2 Cor 11:23

They often occur as objects of woo 'like', "wenna' 'be like':

ka ya na kɛ ka nidib dɔl man wvv ziingba'adibi gban'ad zimi si'em la. kà yà ná kɛ́ kà nidib dɔl man wvv zim-gbán'adìbí_ gban'ad zimí si'em la. and 2P Irr let and person.Pl accompany 1S like fisher.Pl_Nz catch.Ipf fish.Pl how the 'you will make people follow me like fishers catch fish.' Mt 4:19

Ala ka Wina'am da maal ninsaal nwɛnɛ o mɛŋi an si'em la.
Àlá kà Wínà'am dá màal nin-sâal "wɛn nɛ́ ò mɛŋí_ à" si'em la.

thus and God Tns make human.being be.like with 3A self_Nz be how the
'Thus God created a human being resembling how he was himself.' Gn 1:27

Relative clauses with uncompounded heads are often used as appositives §8.7.1. This is the only possible construction after heads that cannot form CIFs, and is also common when the head has a predependent other than a personal pronoun:

```
o da bε nε mɔɔgin linε kpi'e Sinai zuor la
ò dà bè nε mɔɔgv_n línì_ kpì'e Sinai zûor la
'he was in the desert near Mount Sinai' Acts 7:30
yɛltɔɔd ayɔpɔi banɛ ka maliaknama ayɔpɔi mɔr la
yɛl-tɔ̂ɔd
         àyópòe bánì kà màljak-námá àyópòe mor la
matter-bitter.Pl seven DemP Nz and angel-Pl
                                       seven
'the seven plagues which the seven angels have' Rv 15:8
Wina'am nid one ki'is Zugsob pian'ad la
Wínà'am níd
             ònì
                    kı'ıs Zug-sób pjân'ad la
        person DemA Nz deny Lord
God
                                word
'the man of God who refused the Lord's word' 1 Kgs 13:26
```

While non-appositive relative clauses are restrictive, the appositional construction allows non-restrictive meanings:

```
o sid onε da bε nε o la
ò sιd ónὶ dà bὲ nó la
3A husband DemA_Nz Ths exist with_3A the
```

Ti pυ bood ye dau kana aan ti na'aba.

'her husband [the only other human being], who was there with her' Gn 3:6

10.6 Purpose

Purpose clauses follow ye, much less often kà (B3 has 258 examples of nar ye, 45 of nar ka.) The mood is usually imperative, but irrealis also appears:

```
Tì pu bôɔd ye dáṇ-kàṇa áaʰ tì nàˈaba_.

1P Ng want.Ipf that man-Dem be 1P king_Ng

'We don't want this man to be our king.' Lk 19:14

Nɛˈɛṇa niṇnɛ ye ti da tiˈe ti mɛṇ panga.
Nɛˈɛṇa niṇ nɛ yé tì da tíˈe tì mɛṇ páṇa_.

DemI do Foc that 1P Ng.Imp rely 1P self power_Ng

'This was done so that we would not rely on our own strength.' 2 Cor 1:9
```

O niŋ nɛ'ɛŋa ye nid ku nyaŋi du'us o mɛŋ Wina'am tuonnɛ Ò nìŋ nɛ'ɛŋa ye nid ku nyaŋı du'osí ò mɛŋ Wina'am tuonnɛ .

3A do DemI that person Ng.Irr prevail + raise 3A self God before Ng

'He did this so that nobody would be able to boast before God' 1 Cor 1:29.

Purpose clauses may consist of subclauses coordinated with kà:

M bôɔd ye day la keŋ dâ'a_n, kà pua' la dug dub.

1S want.Ipf that man the go market_at and woman the cook food

'I want the man to go to market and the woman to cook food.' W

Purpose-clause objects may express necessity or permission, as after nar_a 'be necessary/need', mor suor 'have permission', lì à nɛ tilás 'it is necessary'; intent, as after $b \supset d_a$ 'want'; or simply expectation, as after gur_a 'watch for/wait until':

Lì nàr yé/kà fò kul.

'You must go home.'

3I must that/and 2S go.home

Tì mór suor yé tì kul.

1P have way that 1P go.home

or Suor bέ yé/kà tì kul.

'We may go home.'

way exist that/and 1P go.home

Li ane tilas ka m ninid ala.

'I must do that.' 1 Cor 9:16 B2

Lì à ne tilás kà m níŋìd àlá.

3I be Foc necessity and 1S do.Ipf thus

gur ye pu'a la du'a gur ye pua' la duá' 'waiting for the woman to give birth'

Rv 12:4

watch that woman the bear

Nara is sometimes found in a personal construction 'deserve that':

babayi' la nar ye ba kυυ ba

'both of them must be killed' Lv 20:12

bà bàyí la nár yé bà kύυ_ba

3P two the must that 3P kill_3P

Gura 'watch for/wait until' can also take a gerund as a complement:

Nidib la daa gur Zakaria yiib na.

Nidib la daa gur Zakaria yîib na.

person.Pl the Tns watch Zechariah exit.Gd hither

'The people were watching for Zechariah's coming out.' Lk 1:21

A main clause with bood ye may be ellipted §10.3.5, e.g.

M dígìnèε?

'Am I to lie down?' (overheard)

1S lie PQ

Purpose clauses as objects show negative raising:

Fù pυ nar yé fù kulε_.

'You must not go home.'

2S Ng must that 2S go.home Ng

M pυ siak ye pu'ab pa'an dapa

Ṁ pυ siák ye pu'ab pâ'an dapa_

1S Ng agree that woman.Pl teach.Ipf man.Pl Ng

'I don't agree that a woman should teach men.' 1 Tm 2:12

Purpose clauses are also found as adjuncts, e.g.

Ò vùl tîιm kà ò nóbìr da zábε.

3A swallow medicine and 3A leg Ng.Imp fight_Ng

'She took medicine so her leg wouldn't hurt.' W

As a preposed or clause adjunct, àsέε 'unless' means 'necessarily':

Nannanna tum ka ba mor o na, ka asεε o kpi!

Nannánna, tòm kà bà moró na, kà àsέε ò kpí!

now send.Imp and 3P have 3A hither and unless 3A die

'Now get him brought here so that he may certainly die!' 1 Sm 20: 31

ka o gban'e ye asεε ka o keŋ Jerusalem

kà ò gban'e yé àsέε kà ò keŋ Jerusalem

and 3A seize that unless and 3A go Jerusalem

'and he made up his mind to go to Jerusalem.' Lk 9:51

Asεε ka fo kpi.

'You will surely die.' 2 Kgs 1:4

Àsέε kà fù kpí.

unless and 2S die

10.7 Content

Content clauses are introduced by ye, much less often kà (B3 has 219 examples of ten'es ye, 31 of ten'es ka.) They have **NSb marking** and show the same range of structures as main clauses; tense and mood are marked relative to the main clause. They follow verbs of cognition or communication like mi' 'know', pà'al 'teach'. tìs noor 'order', sòs 'request', yèl 'say', wòm in the sense 'hear how something is', te"'es' 'think', siàk in the sense 'agree with a fact':

M têⁿ'εs kà m̀ lú ya.

'I think I've fallen.' W

1S think and 1S fall NSb

yanam banim ka li san'aun li'el ya. yanám báním kà lì sàn'un lî'el va. 'know that its destruction is near.'

Lk 21:20

know.Imp and 3I spoil.Gd approach NSb

ka David tis noor ye ba nyu'om bada la nε bugum. kà David tís noor yé bà "yù'om bádà la ne búgóm.

and David give mouth that 3P burn.Imp idol.Pl the with fire

'David ordered them to burn the idols with fire.' 1 Chr 14:12; command

Ya tenes ka m aan ano'one? Yà tên'es kà m áan ànó'onè? 'Who do you think I am?' Acts 13:25; question

2P think and 1S be who CQ?

ban mi' ye biig la kpinɛ la zug bán mi' ye biig la kpí nε la zúg 'because they knew the child was dead' Lk 8:53: focus-ne'

3P.Nz know that child the die Foc the on

Fune siak ye fu ya'a ti kae, o na zin'ini fu na'am gbaun la zugoo? Func siák yé fù yá' tì kae', ò nà zin'iní fù na'am gbáun la zúgóo? 2S_+ agree that 2S if once Ng.be, 3A Irr sit 2S kingdom skin the on PQ?

'Did you agree that when you are no more, he will sit on your throne?' 1 Kgs 1:24; yá'-clause postlinker adjunct

ya mi' ye ba daa namisi ti yà' mí' yé bà daa namısí tı

'You know that we were persecuted' 1 Thes 2:2; relative tense marking

2P know that 3P Tns persecute_1P

Constructions of direct physical perception take catenatives instead §10.4.2.

Àenva 'be' can also take a content clause complement:

M diib anε ye m tum onε tumi m la na bɔɔdim naae.

M dub á nε yé m túm ònù_ tùmù_m la na bɔɔdùm_ nae.

Is food be Foc that IS work DemA_Nz send_IS the hither want.Gd_+ finish

'My food is that I do the will of him who sent me completely.' Jn 4:34

Negative raising takes place after verbs expressing opinions or judgments, but not verbs of knowing or informing:

```
Mam pu tɛn'ɛs ye o na kɛligi m pian'adɛ.

Mam pu tɛn'ɛs yé ò nà kɛlɪgí m̀ pi̯àn'adɛ_.

1S Ng think that 3A Irr listen 1S word.Pl_Ng

'I do not think that he will listen to my words.' Jb 9:16
```

but linzug ka ti baŋ ye o pu yi Wina'am san'an naa.
lìn zúg kà tì báŋ yé ò pu yi Wínà'am sân'an náa_.
therefore and 1P realise that 3A Ng exit God by hither_Ng
'Therefore we realise he has not come from God.' Jn 9:16

```
ka o lee pu baŋ ye li ane one. 'but she didn't realise it was him.' kà ò lée pu báŋ yé lì à ne one_. Jn 20:14 and 3A but Ng realise that 3I be Foc 3A_Ng
```

Verbs of refusal or denial take a negative clause with a positive sense: thus Ya zan'as pu'ab la kuub nee? 'Did you refuse to kill the women?' Nm 31:15 §8.6, but

```
ka o zan'as ye ba ku keŋɛ. 'and he refused to let them go.' Ex 9:7 kà ò zân'as yé bà kú keŋɛ́. and 3A refuse that 3P Ng.Irr go_Ng
```

Yèl 'say' is frequently ellipted before ye:

```
Ba ye balerug ka fu ye zumauk. 'They say "ugly", you say "squashhead."'
Bà ye balerug, kà fù ye zug-mán. $13.2

3P that ugly and 2S that head-crumpled
```

Personal pronouns within content clauses refer to the context of the main clause. If the main clause subject is 3rd person, a contrastive 3rd person pronoun subject in the content clause is logophoric:

ka Festus tans Paul ye o geem ne ... ka Paul lebis ye **on** pu geem.
kà Festus táns Paul yé ò gὲεnm nε ... kà Paul lébìs ye on pu géεnmm_.
and Festus shout Paul that 3A go.mad Foc and Paul reply that 3A Ng go.mad_Ng
'Festus shouted to Paul that he [Paul] was mad ...
Paul replied that **he** [Paul] was not mad.' Acts 26:24-25 B1

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.

Day dá bè_ mɔrí ò pua'-yımmír, kà pua' la ye on pu lém bɔɔd man Tns exist_+ have 3A wife-single and wife the that 3A Ng again want.Ipf yé ò sıd la dí pua' yá'asɛ_.

that 3A husband the take wife again Ng

'There was a man who had one wife. And the wife said that **she** did not want her husband to take another wife.' G2 p26

Sɔ' ya'a tɛn'ɛs ye **on** mi' si'el 'If anyone thinks **he** knows anything' Sɔ' yá' tɛn'ɛs ye on mi' si'el 1 Cor 8:2 IdfA if think that 3A know IdfI

It is not compulsory to use contrastive pronouns in such cases, however.

Commands may appear with 1st or 3rd person subjects, and 2S/2P pronouns remain unaltered before the verb. The main clause may be ellipted §10.3.5.

M pυ yεl ye ya sɔsim Wina'am din yεlaa. M pυ yέl yé yà sɔ̀sìm Winà'am dın yεláa_. 1S Ng say that 2P beg.Imp God 3I about_Ng 'I don't say that you should pray to God about that.' 1 Jn 5:16

ka David tis noor ye ba nyu'om bada la nε bugum.
kà David tís noor yé bà "yù'om bádà la nε búgúm.
and David give mouth that 3P burn.Imp idol.Pl the with fire
'and David ordered them to burn the idols with fire.' 1 Chr 14:12

Wada la ku yɛl nid ye o da niŋ bamaa.

Wadá la kύ yεl nid yé ò da níŋ bàmmáa_.

law the Ng.Irr say person that 3A Ng.Imp do DemP_Ng

'The law will not tell a person not to do these things.' Gal 5:23

Ò gòsìm teŋı_n. 'She should look down.'

3A look.Imp ground_at

that and 3A say 3P

but

10.7.1 Reported speech

In older texts, speech verbs take content clauses, with pronouns reflecting the main clause context (even within vocatives), logophoric use of contrastive 3rd person pronoun subjects, and tense marking relative to the main clause. B1 may continue this over several pages: long passages insert a resumptive ye immediately before clause-linking kà or the subject in about every third content clause:

```
Ye ka Paul yel ye o bood ye o kpelim sarega ni.

Yé kà Paul yél yé ò bòod yé ò kpélim sarıgá ni.

that and Paul say that 3A want.Ipf that 3A remain prison at

'But Paul said he wanted to remain in prison.' Acts 25:21 B1

Amaa ye ka on yeli ba ...

'But he had said to them ...'

Acts 25:16 B1
```

Ka nanana ye o niŋi ba Wina'am ne o popielim pia'ad la nu'usin Kà nannánna yé ò nìŋı_bá Wínà'am né ò pò-pìelìm pi̯ân'ad la nú'usı_n and now that 3A do_3P God with 3A virtue speech the hand.Pl_at 'And now he committed them to God and his holy word' Acts 20:32 B1

Ka m wum Wina'am kokor ka li yi arazana ni na ye, o nidiba, ye ba yimi ten la ni na.

Kà m wum Wina'am kukor ka li yi arazana ni na ye, and 1S hear God voice and 3I exit heaven at hither that o nidiba, yé ba yimi ten la ni na.

3A person.Pl_Voc that 3P exit.Imp_2P2 land the at hither 'And I heard God's voice coming from heaven, saying 'My people, come out of the land!'' Rv 18:4 B1

```
Alazug ye ka on ke ka ba mor o ba sa'an na Àlá zùg yé kà on ké kà bà mɔró_ bà san'an na thus that and 3A let and 3P have_3A 3P by hither 'So he [the speaker] had made them bring him [Paul] into their presence' Acts 25:26 B1
```

In B2/3, speech verbs simply take ye followed by direct quotation, though resumptive ye may still be inserted.

10.8 Prepositional

All prepositions §9.7.3 other than nɛ 'with' may precede unnominalised clauses, before any linkers, thereby producing subordinate clauses.

Wטט 'like' does not occur before linkers:

M pian'adi tisidi ya wυυ ya anε m biis nε. M pi̯án'adı_ tísidı_yá wύυ yà á nέ m̀ biis nε. 1S speak.Ipf_+ give.Ipf_2P like 2P be Foc 1S child.Pl like 'I talk to you as if you were my children.' 2 Cor 6:13

Àsέε appears alone or before kà in the meaning 'unless':

Ti ku zin'in ϵ as ϵ o ti paae na. 'We will not stop until he arrives.' Tì kú zin'in ϵ às ϵ ò tí pae na. 1 Sm 16:11

M kυ basif ka fυ keŋε asεε ka fυ niŋi m zug bareka.

M kύ basi_f kà fὺ keŋέ_ àsέε kà fὺ niŋì m zug bárìkà.

IS Ng.Irr leave_2S and 2S go_Ng unless and 2S do 1S head blessing

'I will not let you go unless you bless me.' Gn 32:26

Halí before a catenative means 'until, up to':

Ti nwa'ae li hali paae Nofa. 'We struck it as far as Nophah.'

Tì nwá'a_lı halí_ pae Nofa. Nm 21:30

1P strike_3I until_+ reach Nophah

Zug-sób la da kε ka kukom ban'as gban'e Na'ab la, halí ka o ti kpi.

Zug-sób la dá kὲ kà kùkòm bân'as gban'e Nâ'ab la, halí kà ò tí kpì.

Lord the Tns let and leper disease seize king the until and 3A next die

'The Lord made leprosy afflict the king for the rest of his life.' 2 Kgs 15:5

Before a clause without linkers, halí is a focusing modifier §11.2.

Amáa 'but' is not a preposition, while kυυ/bεε 'or' may coordinate NPs,
predicates or clauses. Both àmáa and kυυ/bεε 'or' may thus precede main clauses:

```
Ka sieba la' o. Amaa ka sieba yɛl ... 'Some mocked him, but others said ...'
Kà sieba lá'o_. Àmáa kà sieba yɛ́l ... Acts 17:32

and IdfP laugh 3A but and IdfP say
```

11 Information packaging

11.1 Informational focus

Informational focus marks addressee-new information (CGEL p1370), contrast, or both; the prototypical example of new information is that given in response to a content question. Clause predicates are new information by default, but focus on subjects or VP constituents is specifically marked.

Subject focus inserts linker n after the subject. The clause lacks NSb marking, but has normal tense marking.

```
Wáafò_ dúmo_. 'A snake has bitten him.' W snake_+ bite_3A (What's happened?)
```

Subjects containing interrogative pronouns are always n-focused:

```
Ànɔʻɔnì_ kaburídà_?

who_+ ask.entry.Ipf_CQ

Anɔʻɔn yaangi aan o?

Ànɔʻɔn yaangi aan o?

who grandchild_+ be_3A_CQ

'Who is asking permission to enter?'

'Whose descendant is he?' Mt 22:42
```

VP focus uses the particle nɛ´. When nɛ´ follows a verb with no intervening free words, it usually marks temporal focus where possible (see below); otherwise, it precedes focused VP constituents, or follows the entire VP to focus the verb. (Hyman and Watters 1984 discuss analogous phenomena in many African languages.)

Nε´ cannot appear twice in a clause. Unlike nε 'with', it is limited to particular clause types, never precedes bound pronouns, and need not precede a NP. It cannot appear in clauses with subject focus, nominalised clauses, or content questions:

```
M zugv_ zábìd.

1S head_+ fight.Ipf

M yí nɛ Bɔk.

1S exit Foc Bawku

Where is the pain?)

'I come from Bawku.' S

1S exit Foc Bawku

'Mary who came from Magdala'

Meeri oni_ yi Magdala

Mk 16:9 B2

Mary DemA_Nz exit Magdala
```

```
Bùgúm la yít yáa ní ná_? 'Where is the light coming from?' S

fire the exit.Ipf where at hither_CQ

M á nɛ biig. 'I am a child.'

mán à biig la zúg 'because I'm a child'

M áa à nɔ'ɔnɛ̣_? 'Who am I?'
```

Fù bɔ̂ɔd nε bɔ́_? must be taken as 'what do you want it with?' W. Purpose clauses allow nε´, and it may appear (once) in a catenation:

```
Pian'am ka m bood ye fu nyene buud.

Piàn'am kà m̀ bôod yé fù nye ne buud.

speak.Imp and 1S want.Ipf that 2S see Foc innocence

'Speak, for I want you to be vindicated.' Jb 33:32

amaa o bas sariakadib la tis ne Biig la

àmáa ò bàs sáríyà-kadıb la_ tís ne Biig la

but 3A leave law-drive.Gd the_+ give Foc child the

'but he has left the judging to the Son' Jn 5:22
```

 $N\epsilon$ is omitted in replying by repeating the verb, e.g. M gósld! 'I'm looking!' in response to $F\delta$ gósld $n\epsilon$? 'Are you looking?' or $G\delta$ slm! 'Look!'

After a positive indicative verb, with no free words intervening, $n\epsilon$ by default marks **temporal focus**, implying "at the time referred to *in particular*." With Ipfs, the time referred to is then strictly contained within the time of the situation, as with English progressives (CGEL pp125ff); the construction is similarly not freely used with relationship or quality verbs. (Güldemann 2003 suggests that progressive marking has often arisen from predicate focus cross-linguistically.) With event Pfs, time referred to and time of the situation coincide completely, and temporal focus is not possible. However, Pfs expressing a change of state in the subject may express the resulting state, which *follows* the action: here time referred to and time of the situation can never coincide. Temporal $n\epsilon$ after a Pf thus marks it as stative, and if a Pf cannot express a subject state change, any following $n\epsilon$ cannot be temporal.

If the VP is negative, or if $n\epsilon'$ is separated from the verb by free words or altogether excluded by the clause type, temporal focus is unmarked:

```
Ò zàbìd.
ὑ zàbìd nε.
ὑ pu zábìda_.
'He fights.'
'He's fighting.'
'He's not fighting/doesn't fight.'
```

Ò kùosìd nε.
Ö kùosìd nε summa la.
but Ö kùosìd summa la nε.
'She is selling the groundnuts.'
'She sells/is selling the groundnuts.'
(constituent focus: "They're not free.")
Bó kà ò kúosìdà_?/Ò kùosìd bó_?
'What does she sell/is she selling?'

Potential ambiguity between temporal and constituent focus interpretations of ne' is reduced by the fact that many verb forms do not accept temporal focus. The VP must be indicative, so e.g. Gɔ̀sìm ne! 'Look!' (i.e. Don't touch! W) necessarily shows constituent focus. Only Pfs able to express a subject state change can be stative, so the focus must be on constituents in

M dá' nε bύŋ.

'I've bought a *donkey*.'

1S buy Foc donkey

(What have you bought?)

Ò dìgìl nɛ. 'He's laid it down.'

3A lay Foc (I thought he'd pick it up.)

Stances and body positions are not states in Kusaal; thus

Ö dìgìn nε.

'He's lain down.' D: "Someone calls at your house; he thinks you're out but I'm explaining that you've gone to bed."

Note the idiom ò zì'en nε 'she's pregnant.'

Tense-unmarked Pfs in narrative cannot accept temporal focus §9.2.1.

Relationship and quality verbs, and Ipfs of verbs in the middle construction §9.7.1 do not accept progressive or multiple-event readings; here, temporal focus is only felicitous if the clause contains an explicit time reference (even just a past tense marker), implying a temporary state of affairs and contrasting the time referred to with other times. Focus is thus on constituents in e.g.

Lì vèn ne. 'It's beautiful.' (I did not expect that.)

3I be.beautiful Foc

M' mór ne pua'. 'I have a woman.'

1S have Foc woman (implies an irregular liaison, W)

Daká la záⁿl nε. 'The box gets carried in the *hands*.' box the hand.carry Foc (Not on the head.)

Information packaging

Daam la nûud ne.

beer the drink.Ipf Foc

'The beer is for drinking.' (Not washing; not "is being drunk"; cf Daam la nûud

'The beer gets drunk.' W)

On the other hand, ne' marks a temporary state in

Nannánna, lì vὲn nε.

'Just now, it's beautiful.'

now 3I be.beautiful Foc

Lì daa vέn nε.

3I Tns be.beautiful Foc

'It was beautiful.' W: "I gave you a cup; it was OK then, but now you've spoilt it."

Mὑ'ar la daa zúlìm nε. 'The lake was deep.'

lake the Tns be.deep Foc (Now it's shallow. W)

Lì daa á nɛ súŋa. 'At the time, it was good.' W

3I Tns be Foc well (Lì daa án súŋa. 'It was good.' W)

Generic subjects are incompatible with temporal focus:

Na'-síebà ɔˆnbìd nε mɔɔd la.

'Some cows are eating the grass.'

cow-IdfP chew.Ipf Foc grass.Pl the

but Niigí ɔ˙nbìd nε mɔɔd.

cow.Pl chew.Ipf Foc grass.Pl

'Cows eat grass.'
(What do cows eat?)

As manner nouns, sòŋa´/sòm 'well', bɛ'ɛd 'badly', sìdà 'truly' are intrinsically focused, as are the number forms àyíŋa´ 'two', àtáŋa´ 'three.' Any nɛ´ preceding a NP which contains them must be temporal, and even relationship or quality verbs without time marking in the clause are constrained to the temporary-state meaning.

Lì àⁿ sύηa/bε'εd.

'It's good/bad.'

3I be well / badness

o sariakadib a sum ne sida.

'His judgment is good and true.'

Rv 19:2 B1

ò sàríyà-kadιb áⁿ sύm nε sídà. 3A law-drive.Gd be good with truth

but Lì à nε súŋa.

'It's good.' (Now; it wasn't before. W)

3I be Foc well

Information packaging

M mór nε biisá àtáŋa.

1S have Foc child.Pl three

'I've got *three* children just now.'
D: "On a school trip, talking about how many children everyone has brought."

As old information, definite NPs are usually only focused contrastively, e.g.

Fu pu ma' n tis ninsaala, amaa fu ma' n tis ne Wina'am Siig Suŋ.

Fù pu má' n tìs nin-sáala , àmáa fù má' n tís nε Wínà'am Sí-sùŋ.

2S Ng lie + give human Ng but 2S lie + give Foc God spirit-good

'You have lied not to a human being, but to the Holy Spirit.' Acts 5:4 B2

Proper names may be new information when not referring:

O yu'ur na anε Joon.

'His name will be John.' Lk 1:60

Ò yυ'υr ná a nε Joon.

3A name Irr be Foc John

New information may lie in the internal structure of an argument:

Ba ane Apam biis.

Bà à nέ à Pam bîis.

3P be Foc Pz Apam child.Pl

'They are Apam's children.' G3 p6 (Apam and the children have been mentioned, but not their relationship)

This is common with nominalised clauses as arguments. Location at a known place may be new information:

M yí nε Bók.

'I come from Bawku.' S

1S exit Foc Bawku

Bὲ 'exist' with a focused place adverbial means 'be somewhere':

Dày-sɔ' bέ dó-kàna la pύυgυ n.

'There is a man in that hut.'

man-IdfA exist hut-Dem the inside

but Ò bὲ nε dó-kàŋa la púugu_n.

'He is inside that hut.' (Where is he?)

3A exist Foc hut-Dem the inside

Mam bene moogin.

Mam bέ nε mɔɔgυ n.

1S exist Foc grass at

'I'm in the bush.' G1 p8

The object of $\grave{a} e^n_{ya}$ 'be ' in ascriptive sense is usually new information, focused with $n\epsilon$ ' if possible, but in specifying, the subject is usually focused instead:

Ò à nε baa límm.
Lì à nε bugusíga.
M á nε dú'atà.
I'I'm a doctor.' (What do you do?)
Manι_ á dú'atà la.
I'm the doctor.' (Which is the doctor?)

Manι_ áⁿ dú'atà àmáa fun pu áēnya_. 'I'm a doctor but you aren't.'

1S + be doctor but 2S Ng be Ng

Nobibisi a mam disun. 'Chicks are my favourite food.' G1 p13

Nobibisi_ án mam dí-sòn.

hen-small.Pl_+ be 1S food-good

Focus on an argument under the scope of a negative is contrastive:

M ka' dú'ataa_.I'm not a doctor.'M ka' nε dú'ataa .I'm not a doctor.' (I'm a nurse.)

11.2 Focusing modifiers

Focusing modifiers relate constituents to the discourse context. Most follow top-level NPs. ("Focus" here refers to the scope of the modifier, CGEL p589.)

mè, W mèn; clause-finally mèn 'also, too.'

O pu'a mε kena. 'His wife also came.' Acts 5:7

Ò pua' mέ ké na.

3A wife also come hither

bozugo o ane fo biig men. 'Because he is your child too.' Gn 21:13 bo zúgó ò à né fò biig mén.

because 3A be Foc 2S child also

It may focus subject pronouns ellipted after kà or catenating n:

Manε maal Israel, ka mε aan ya na'ab.

Manι_ mâal Israel, kà mέ áaⁿ yà nà'ab.

1S_+ make Israel and also be 2P king
'I created Israel, and am also your king.' Is 43:15

It may even follow n when that particle is used to focus the subject:

```
O pitυ la yυ'υτι mε da buon Joktan.
Ò pitύ la yυ'υτι mέ dá bùon Joktan.
3A sib the name_+ also Tns call.Ipf Joktan
'Also his younger brother's name was Joktan.' Gn 10:25
```

noo 'just, exactly': e.g. dàa-kàn la noo 'that very day', and

```
Fu ya'a mor ya'am, fun noo na dii li malisim.
Fu ya' mor ya'am, fun noo na dii li malisim.
28 if have sense 28 exactly Irr eat 31 joy
'If you have wisdom, it is you who will have joy of it.' Prv 9:12
```

kòtàa LF kòtàanè 'at all' precedes the negative enclitic or follows áyìı 'no.'

mà'àa LF mà'anè 'only':

```
Zina ma'aa ka m wum. 'Only today have I heard it.' Gn 21:26
Ziná má'àa kà m̀ wúm.
today only and 1S hear
```

gòllımm LF gòllìmnè 'only':

```
Li ka'anɛ Wina'am gʊllim nɛ? 'Is it not God alone?' Lk 5:21
Lì ka' nɛ Wínà'am gʊ́llìmnɛ̀ɛ__?
3I Ng.be Foc God only_Ng_PQ
```

báa with a negative VP means 'even' in the adverbial báa bi'elá '(not) even a little' and in the NP postdependent báa yınní '(not) even one':

```
Da tumi si'el baa bi'elaa. 'Do no work at all.' Lv 23:31

Da túmı_ si'el báa bi'eláa_.

Ng.Imp work_2P2 Idfl even slightly_Ng

Fu du'adib baa yinne kae ka o yu'ur buon alaa.

Fù du'adib báa yınní ká'e kà ò yu'ur bûon àláa_.

2S relative.Pl even one Ng.exist and 3A name call.Ipf thus_Ng

'Not one of your relatives is called that.' Lk 1:61
```

halí 'as far as' §9.7.3 is a focusing modifier before NPs or clauses not expressing time or place. Before manner nouns it means 'very'; the noun itself is often ellipted:

```
'It's very difficult.'
Lì tòe
         halí [bédùgu].
3I be.bitter until [much]
Halí ne and halí là am ne mean 'even' before nominalised clauses:
hali la'am nε on zi' la
                                         'even though he does not know' Lv 5:3
halí là'am ne ón zı'
                             la
even together with 3A.Nz Ng.know the
hali nε man daa sobi tisi ya si'em la, m daa pu sobi li ...
halí nε mán daa sobι tísì ya si'em la, m̀ daa pu sobí li ...
even with 1S.Nz Tns write + give 2P how the 1S Tns Ng write 3I
'Despite how I wrote to you, I did not write it ...' 2 Cor 7:12
                                         'Even as I live ...' Rom 14:11
Hali ne man vue nwa ...
Halí nε mán vue nwá ...
even with 1S.Nz live this
```

Before an unnominalised clause with no linker, halí or halí báa means 'even'; the scope may be the subject, the VP, or a clause adjunct like a yà'-clause.

```
Hali tvumbe'ed dim ninid ala. 'Even sinners do that.' Lk 6:33
Halí tvum-be'ed dím nínid àlá.

even work.Gd-bad.Pl ØP do.Ipf thus

Hali o be suori kenna ye o tv'usif.
Halí ò bè suori ken na yé ò tv'usí_f.

even 3A exist road_+ come.Ipf hither that 3A meet_2S
'He's even now on the way coming here to meet you.' Ex 4:14

Hali baa bama wusa ya'a na zɔ ka basif, man ku basi fɔ.
Halí báa bàmma wusa yá' nà zó kà bási_f, man kú basi_fó_.

even DemP all if Irr run and leave_2S 1S Ng.Irr leave_2S_Ng
'Even if they all run away and leave you, I will not.' Mt 26:33
```

11.3 Focusing deictics

When used as liaison enclitics §4.4, la´, "wà and wàna´ are not simple deictics §8.7.3 but *focusing* deictics. (Historically, the focusing deictics were preceded by the particle n: here Mampruli has *nla \eta\eta\sigma* beside the simple deictics $la \ \eta\sigma$.) The meaning then resembles an internally headed relative clause §10.5.2 whose in-situ antecedent X is the NP before the enclitic, with a main clause 'That/this is (the) X [which] ...' Any preceding $li \ ane$ 'it is' is normally ellipted, leaving the deictics themselves as the apparent predicators, but this does not reflect the underlying structure, which is apparent from the corresponding negative forms, which begin with $li \ ka'$ 'it is not.' However, focus and predication are closely linked cross-linguistically (cf Green 2007 Chapter 5, É. Kiss 2006, and Maslova 2003 12.2.)

Examples for the focusing deictics:

```
Zaansuŋ sɔb la nwana kenna! 'Here is the dreamer coming!'
Zàansuŋ sɔb la wána kén na! Gn 37:19
```

dream ØA the this.here come.Ipf hither

```
Fu maal boo la tis mam? 'What is this that you have done to me?' Fù mâal bóo_la_ tís màm_? Nm 23:11
```

2S make what_that_+ give 1S_CQ

Hibiru dim la nwa yυ'υn yit vɔnt banɛ ka ba daa su'a la ni na yυ'υs.

Hibiru dim la_nwá yυ'υn yit vɔnt bánì_ kà bà daa sua' la ni na yυ'υs.

Hebrew ØP the_this then exit.Ipf hole.Pl DemP_Nz and 3P Tns hide the at hither again

'So here are the Hebrews coming out again from the holes they had hidden in.'

1 Sm 14:11

Li ane Wina'am nid one ki'is Zugsob pian'ad la, la.

```
Lì à ne Winà'am nid ònì_ ku'us Zug-sób pian'ad la_ la.

3I be Foc God person DemA_Nz refuse Lord word.Pl the_that

'This is the man of God who refused the Lord's word.' 1Kgs 13:26
```

```
Li ka' suor la nwa. 'This is not the road.' 2 Kgs 6:19
Lì ka' suor la_nwá_.
3I Ng.be road the this Ng
```

Pz what-teach.Gd this CQ

```
Li ka' Josef biig la nwaa?
                                        'Isn't this Joseph's son?' Lk 4:22
Lì ka' Josef bîig la "wáa?
3I Ng.be Joseph child the this Ng PQ
The dummy subject pronoun li is often ellipted before ka' 'not be' §10.1:
                                        'That is not a door.'
Ka' kúlìŋì_láa_.
Ng.be door that Ng
Zugsoba, ka' man daa pun bε yin ka yεl si'em la nwaa?
Zug-sóba, ka' mán daa pún bè yín
                                        kà yél si'em la "wáa ?
          Ng.be 1S.Nz Tns already exist at.home and say how
                                                      the this Ng PQ
'Lord, isn't this what I said when I was still at home?' Jon 4:2
Ka' nimbanε ka fo la'ad la nwaa?
Ka' nin-bánì
                  kà fù lâ'ad la "wáa?
Ng.be person-DemP Nz and 2S laugh.Ipf the this Ng PQ
'Aren't these the people who you were laughing at?' Jgs 9:38
In positive polarity, all of the preceding li à ne is normally ellipted §10.3.5:
Kùlìnì wána.
                                        'This here is a door.'
door_this.here
                                        'What's that?'
Boo_lá_?
                                         (Often used for 'What is the matter?')
what that CQ
Ano'on nwaa yisid nidib tuumbe'edi basida?
Ànɔ̂'ɔn nwáa yisid nidib tûvm-bɛ'ɛdı básìdà?
              expel.Ipf person.Pl work.Gd-bad.Pl + reject.Ipf CQ
who this +
'Who is this who drives people's sins out?' Lk 7:49
Oni lá kà fò daa "yet."
                                        'This is he whom you were seeing.' W
3A_that and 2S Tns see.Ipf
The construction à bɔ-X_la/\dangle w\u00e1 means 'what kind of X is that/this?
Abo pa'alugu nwa?
                                        'What kind of teaching is this?' Lk 4:36
À bò-pà'alùgù "wá?
```

11.4 Preposing, dislocation and clefting

NPs other than subjects may be foregrounded by **preposing** them before kà. Resumptive pronouns are used only for NPs extracted from prepositional phrases or subordinate clauses. Tense marking and focus appear as usual (for the difference between foregrounding and focus, cf CGEL pp1424ff.)

```
Mid ka sɔ' digil ye bɛog ka o di.

Mìt kà sɔ' digil ye bɛ́og kà ò dí.

Ex 16:19

beware and IdfA lay that tomorrow and 3A eat

Bi'el bí'el kà kɔlɪg pɛ̂'ɛl nɛ.

'Little by little, a river is full.' §13.2

little little and river fill Foc
```

Dinzug ka mam Paul n be sarega ni Yesu Kiristo zug yanam buudbane ka' Jew dim la yela.

```
Dìn zúg kà mam Paul n bé sarıgá nì Yesu Kiristo zúg

therefore and 1S Paul + exist prison at Jesus Christ on

yanám bûud-bànì_ ka' Jew dím la yélà.

2P tribe-DemP_Nz Ng.be Jew ØP the about

'Thus I, Paul, am in prison for Jesus Christ because of you gentiles.' Eph 3:1 B2
```

Asee line an be'ed ma'aa ka m na tun'e nin.

```
Àsée lìnì_ à be'ed má'àa kà m ná tu''e_ nín.

except DemI_Nz be bad only and 1S Irr be.able_+ do
'It's only that which is bad that I can do.' Rom 7:21
```

Objects of àenva 'be' are not preposed:

```
Mam a bo? 'What am I?' G1 p4 Mam \acute{a}^n b5_? 
1S be what_CQ
```

NPs containing interrogative pronouns are often preposed; this is compulsory when bo is used in the meaning 'why?'

```
Bo ka fu booda? 'What do you want?' Est 7:2
Bó kà fù bóodà_?
what and 2S want.Ipf CQ
```

Nu'-bíbìsá àlá kà fò "yɛtá_?

'How many fingers can you see?' S

finger.Pl how.many and 2S see.Ipf_CQ

Ningbin bo buudi ka ba na ti mora? Nìn-gbin-bó-buudí kà bà ná tı morá_? 'What kind of body will they have?'

1 Cor 15:35

body-what-sort and 3P Irr next have CQ

Ka anɔ'ɔnam ka Wina'am sunf da pɛlig nɛ ba yuma piisnaasi la? Kà ànɔ̂'ɔn-nàm kà Wínà'am súʰf dá pɛ̂lüg nɛ́ bà yumà pis naasí lá?

and who-Pl and God heart Tns whiten with 3P year.Pl forty the_CQ

'And who was God angry with for forty years?' Heb 3:17

Bó kà fù kúmmà?

'Why are you crying?'

what and 2S weep.Ipf CQ

Adjuncts are often preposed with kà; contrast foregrounding with kà and focusing with $n\epsilon$ in

"Wadısá àtá" kà fù ná leb na.

'You're to come back in three months.'

month.Pl three and 2S Irr return hither

W, overheard (directions to a patient)

Tì dít sa'ab nε zâam.

'We eat millet porridge in the evening.'

1P eat.Ipf porridge Foc evening

(Reply to 'When do you eat porridge?')

The only structure other than a NP (including nominalised clauses) that I have found preposed with kà is woo 'like' with its object:

Wυυ búŋ né kà ò zót.

'It's like a donkey that he runs.' W

like donkey like and 3A run.Ipf

Preposing without foregrounding is seen in relative clauses §10.5.2, and with absolute clauses preposed so that constituent order parallels event order:

Mán nwè dâu lā zûg kà pōlis gbá' m.

Mán "wè' day la zúg kà polis gbá" a m.

1S.Nz hit man the on and police seize 1S

'The police arrested me because I hit the man.' Spratt, Introduction p40

Dislocation to clause-initial position may occur with long NPs; unlike preposing, dislocation does not use kà, and resumptive pronouns must be used:

Wilkan be m ni ka pu wan na, m Ba' nwaadi li n basid.

Wìl-kànì_ bèɛ m̀ ní kà pu wénna_, m̀ Ba' nwá'adı_lí n básìd.

branch-Dem_Nz exist 1S at and Ng fruit.Ipf_Ng 1S father cut.Ipf_3I + reject.Ipf

'A branch in me which does not bear fruit, my father cuts out.' Jn 15:2 B2

One ka ba tis o ka li zu'oe, ba me mor puten'er ye o na lebis line zu'oe.

Ònì kà bà tísò kà lì zú'e, bà mè mòr pú-tèn'er yé ò nà lebis línì zù'e.

DemA_Nz and 3P give_3A and 3I get.much, 3P also have mind that 3A Irr return DemI_Nz get.much 'Whom they have given much to, they expect he will return much.' Lk 12:48

A heavy indirect object is right-dislocated to follow the object in

Mam Paul ... tisid gboŋ kaŋa Wina'am nidib bane a sida dim ka a yinni ne lesus Christ Efesus teŋin la.

Mam Paul ... tísìd gbáyŋ-kàŋa Wínà'am nídìb bànì àn sídà dím

 $1S \qquad \quad \text{Paul} \qquad \text{give.Ipf book-Dem} \qquad \quad \text{God} \qquad \quad \text{person.Pl DemP_Nz be truth \emptysetP}$

kà áⁿ yınní nε Jesus Christ Efesus téŋı_n la.

and be one with Jesus Christ Ephesus land at the

'I, Paul ... give this letter to God's people who are truthful and one in Jesus Christ in Ephesus.' Eph 1:1 B1

Long clause adjuncts may also dislocate rightwards (see e.g. §10.3.3.)

Right-dislocation is also recognisable when constituents follow VP-final particles. Pronouns (even free pronouns) may not do so. Manner adverbials in such a position are intensified; otherwise, the sense is contrary to expectation:

M pô'us ya bédùgu. 'Thank you very much.'

1S greet NSb much

Ya yidigya bεdegu. 'You are very much mistaken.' Mk 12:27

Yà yídìg ya bédùgu.

2P go.astray NSb much

Ò dà' ya múi. 'She's bought rice.' (Of all things!)

3A buy NSb rice.Pl

cf Ò dà' nɛ múi. 'She's bought rice.' (What did she buy?)

3A buy Foc rice.Pl

Clefting involves a clause l à n ϵ X 'it is X' (generally reduced to X alone if X contains a focusing deictic $\S11.3$) followed by a catenative clause with n or k aby the usual rules $\S10.4$. The NP of the first clause is foregrounded and focused, with an implication of exhaustiveness and exclusiveness. Resumptive pronoun usage is as with preposing.

```
Li ka' yanamε na zab zabkaŋaa.
                                         'It is not you who will fight this battle.'
Lì ka' yanámì nà zab záb-kàŋáa .
                                         2 Chr 29:17
3I Ng.be 2P +
                Irr fight fight.Gd-Dem_Ng
                                         'It is his wife who owns it.' 1 Cor 7:4
Li anε o pu'a sv'oe li.
Lì á né ò pua' sú'u li.
3I be Foc 3A wife + own 3I
Ano'on nwaa yisid nidib tuumbe'edi basida?
Ànɔ̂'ɔn_nwáa_ yisid nidib tɒ̂vm-bɛ'ɛdı básìdà ?
who this +
              expel.Ipf person.Pl work.Gd-bad.Pl + reject.Ipf CQ
'Who is this who drives people's sins out?' Lk 7:49
                                         'What is that I can see?'
Boo lá kà m nyetá?
what that and 1S see.Ipf CQ
Zi', ka dau la siigi la ka o gban'e mori kul.
Zι'ι,
          kà day la síigì lá
                                kà ò gban'e_ mort_ kul.
Ng.know Ng and man the life.force that and 3A grab + have + go.home
'Unbeknownst, that was the man's life force that
he'd seized and taken home.' G2 p26
```

The preposed element may be extracted from a (co)subordinate clause:

```
Li anɛ ya taaba banɛ pu'usid Wina'am ka li nar ka ya kad saria.
Lì à nɛ́ yà taaba bánì_ pù'usìd Wínà'am kà lì nár kà yà kád sàríyà.

3I be Foc 2P fellow DemP_Nz greet.Ipf God and 3I must and 2P drive judgment
'It is your fellow-worshippers of God whom you must judge.' 1 Cor 5:12
```

12 Formulae

health

exist 3P

Greetings may take the form of enquiries after health:

Gbís welá_? 'How did you sleep?' (First morning greeting.) sleep how CQ 'How did you get up?' (First morning greeting.) Dúe wεlá_? arise how_CQ Nintaŋ án wɛlá_? 'How is the day/afternoon?' daytime be how CQ Yύ'υη án wεlá? 'How is the evening?' night be how CQ '... your household?' Fù yi-dímà? 2S house-ØP_CQ Nìn-gbiná_? '... body?' (i.e. "How are you?") body_CQ '... wife and children?' Pua' nε bíisè_? wife and child.Pl CQ

and so on, often at some length. Replies may be e.g.

Àláafù bέ.

health exist

Àláafù bέο_.

health exist_3A

Àláafù bέε_bá.

'There is health.' (Also used as a greeting.)

... for him/her.

... for them.

Other greetings are blessings of the pattern Bárìkà nế fù/yà ... 'Blessing with your ...' with the introductory words usually ellipted; reply: Náa.

Ken ken. 'Welcome!'

come.Gd come.Gd

Nε zâam zâam. 'Good evening.'

with evening evening

Tuuma! or Tuuma tuuma! '(Blessing on) your work!'; the commonest

work.Gd.Pl daytime greeting.

Nε sɔ́nsìga. '(Blessing) on your conversation'; to a group

with converse.Gd talking, or to a person sitting quietly alone

(who is assumed to be conversing with

his or her own $w(n_n')$.

Nέ fù burιyá-sùŋ. 'Merry Christmas.'

with 2S Christmas-good

Nέ fò yòum-paalíg. 'Happy New Year.'

with 2S year-new

Others are promises or commands; reply To 'OK', or a similar agreement.

Beogu la. 'See you tomorrow!'

tomorrow that

Àtínì dáarì_la. 'See you on Monday.'

Monday day_that

Gbìsìm súŋa. 'Sleep well.'

sleep.Imp well

Kpèlimı sóm. 'Remain well'; "Goodbye", to those remaining.

remain.Imp_2P2 well

Pò'usìm yín. 'Greet (those) at home'; "Goodbye", to a leaver.

greet.Imp house at Reply Tò, or Bà nà wum 'They will hear.'

Prayers; reply Amí 'Amen.'

Win ná lebisi_f ne láaftyà. 'Safe journey!' ("God will return you healthy.")

God Irr return_2S with health

Win ná ta'así_f. 'Safe journey!' ("God will help you travel.")

God Irr help.walk 2S

Win ná suni f. 'God will help you.' (Used to express thanks)

God Irr help_2S

Other formulae include:

M pů'υs ya [bέdùgυ]. 'Thank you [very much].' Reply Τὸ, or

1S greet NSb [much] Pù'vsùg ka'e_ 'No thanks [needed].'

Gáafàrà. 'Sorry' (in apology or in sympathy.)

Kabır kabırí! Asking admission to a dwelling. (Knocking is

for robbers trying to find out if anyone is in.)

Dim sugurú. 'Forgive me.'

eat.Imp forbearance

M bέlim nε. 'I beg you.' (Less used than English "please.")

1S beg.Ipf Foc

X lábaar án wɛlá_? 'What is the news of X?'

X news be how_CQ

The standard initial reply is

Dub má'àa 'Only food.' i.e. "good."

food only

The traditional first words to a house guest are

M mor kû'om náa ? 'Shall I bring water?'

1S have water hither_PQ

"No, thanks" is

Kù'om áⁿ sóm 'Water is good.'

water be well

The response to someone sneezing is

Win yél sídà. 'Bless you!' ('God speaks truth': sneezing

God say truth means someone elsewhere is praising you. W)

Enquiries about understanding; note the use of wbm 'hear', and the aspects:

Ò wòm Kusáalèe? 'Does she understand Kusaal?'

3A hear.Ipf Kusaal PQ

 ε_n , δ wom. 'Yes, she does.'

yes 3A hear.Ipf

Áyìι, ò ρυ wύmma_. 'No, she doesn't.'

no 3A Ng hear.Ipf Ng

Ò wòm ya kύυ_? 'Does she understand?' (what was just said)

3A hear NSb or_PQ

Eεⁿ, ò wòm ya. 'Yes, she does.'

yes 3A hear NSb

Áyìι, ò pυ wυmm. 'No, she doesn't.'

no 3A Ng hear_Ng

13 Texts

13.1 Folk story: The Three Murderers

(G2 p16: cf also Hamel and Merrill 1991.)

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.

Dapá àtán' n dá bè. Bà dà à nε dáp-kanda súna. Kà daar yınnı kà bà lánasì zín'inì man.Pl three + Tns exist 3P Tns be Foc man-tough.Pl well and day one and 3P gather + sit + gban'e yé bà dûom ja bódàalìm lâ'ad n ginnı kuud nidib má'àa kà da that 3P rise.Imp_+ seek courage goods.Pl + roam.Ipf_+ kill.Ipf person.Pl only and Ng.Imp lέm tòm si'ela_. Bà sìd dùe_ ịa sô'us nε zán'anà nε tí-daad nε pimá nε lô'ad again work IdfI_Ng 3P truly rise_+ seek knife.Pl with bludgeon.Pl with bow.Pl with arrow.Pl with quiver.Pl nε kpana nε málì sý na n pin ill ginni ied nidib yé bà yá' ⁿyε sɔ' ban kυ. with spear.Pl with gun.Pl well + begin_+ wander.Ipf_+ seek.Ipf person.Pl that 3P if find IdfA 3P kill 'Once there were three men. They were real toughs. One day they met and decided to go and find weapons and go round just killing people so as never to have to work again. So they went looking for lots of swords, bludgeons, bows, arrows, guivers, spears and guns and began searching for people to find someone they could kill.'

Bà gìlìgí àlá nε "wadısá àtá" nε dábìsà àtá". Bà ρυ "yε nidı ná kυυ . Kà kpέlìm 3P go.round thus with month.Pl three with day.Pl three 3P Ng find person + Irr kill Ng and remain mor ken nε ken nε ken. Dabá ànu dâar bà nyε nε lallí sà kà si'el zí'e sabíllì have go.Gd with go.Gd with go.Gd day.Pl five day 3P see with far hence and IdfI stand black_+ wuu nid nε, kà bà kpεεⁿm la yé bà kém kúo , yé ò sɔb yá' pùn tún'e kà mɔr nɛ the that 3P go.Imp_+ kill_3A that 3A \emptyset A if already be.able and have Foc like person like and 3P elder láuk-si'a wusa, bà nà "yanı kúo . Kà òna ginıd kpε, kà òna ginιd item-Idf 3P Irr prevail + kill 3A and DemA intercept.Ipf there and DemA intercept.Ipf there bà tì ken pae "yé kà lì ka' nidá, kà á ne botó kà ligidi pê'el mà'àa má'àa má. 3P next go + reach + see and 3I Ng.be person Ng and be Foc sack and money fill Kà bà ye Àtò, kà nannánna "wá, tì yé tì niŋ ligidi "wá walá? Kà bà ye, bà nà pudig nɛ. and 3P say so and now this 1P that 1P do money this how CQ and 3P say 3P Irr share Foc Àmáa bà yé lì nár kà bà yis ligidi la n keŋ dá' daam ná nu yiigá kà nyaan pudig 3P that 3I must and 3P extract money the + go + buy beer + Irr drink firstly and next ligidi la. Kà yis ligidi la bi'elá ye biig la kém_ dá' yvvr ná kà bà nu. money the and extract money the a.little that child the go.Imp + buy jug hither and 3P drink '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. 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; even if he was capable and fully equipped, they would be able to kill him. And one blocked this way, and one blocked that way, but once they got there they saw that it wasn't a person but a bag full of money. They said: 'Well, now! What are we going to do with this money?' And they said they'd share it. But they said they should take some money out to buy beer to drink first, and then share out the money. And they took out a little of the money so the youngest could go and buy a jug so they could drink.'

Biig lá_ ken la, ò tèn'ɛsìd nɛ ón nà niŋ si'em_ ku bánì_ kpèlìm àní na la, kà váe child the_Nz go.Ipf the 3A think.Ipf Foc 3A.Nz Irr do how_+ kill DemP_Nz remain there the and gather ligidi la wúsà wusa n su'e, ò yèlí ò mɛŋ ye, ò nà da' nɛ daam, kà bó tì-kuudím money the all all + own 3A say 3A self that 3A Irr buy Foc beer and seek medicine-killing n lós daamí_n la n pae_ tíı_bá kà bà nuu_ kpí kà ò su'e ligidi la wúsà. + immerse beer_at the + reach_+ give_3P and 3P drink_+ die and 3A own money the all Kà síd dà' daam la, kà bó tì-kuudím n lós. and truly buy beer the and seek medicine-killing + immerse

'As the youngest was on his way, 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 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. And indeed he bought the beer and sought poison to put in it.'

Zι'ιsígε_, kà bà bàyí lá_ kpὲlìm la mé gbaⁿ'e nε yé bà ku biig lá_ keŋ Ng.know Ng and 3P two the Nz remain the also grab Foc that 3P kill child the Nz go

daam la dâ'ab la, kà mé su'e ligidi la. Biig lá n mɔr daam la pae na la,

beer the buy.Gd the and also own money the child the_Nz have beer the_+ reach hither the

kà òŋa kiá' kpɛ, kà on kiá' kpɛ, n kí'o__ ku, kà yu'un záŋ daam la_ nu wán wán,

and DemA cut here and 3A cut here + cut_3A_+ kill and then take beer the_+ drink Ideo Ideo \hat{l} pv yúugɛ , kà bà wvsa wvsa mɛ́ kpɛ́lim kpi zin'-kàn la nɔ́ɔ kà bà sɔ' sɔ'

3I Ng delay_Ng and 3P all also immediately die place-Dem the exactly and 3P IdfA IdfA pv "yanı pâam la'af la báa yınnı morı kulı bà yáa ne .

Ng prevail_+ receive cowry the not.one_+ have_+ go.home 3P house.Pl_at_Ng

'Unbeknownst, the two who stayed behind had also decided to kill the lad who went to buy the beer and keep the money themselves. When the lad arrived back with the beer, one cut him here and one cut him there, cutting him to death, and then they 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.'

Dìn kà Kυsâas yé fù yá' tεⁿ'εs bεε túm bε'εd yé fù tísì fù tırâan,

3I and Kusaasi.Pl that 2S if think or act bad that 2S give 2S peer fù mâanní fù mɛŋ yâ'as la.

2S make.Ipf 2S self again the

'That's why the Kusaasi say: if you think or do evil toward your neighbour, you're doing it to yourself in return.'

13.2 Proverbs

Kusaal proverbs often have a riddle-like quality, and their application may not always be evident from the literal meaning. (Cf Finnegan 2012, Chapter 14.) From G2 pp38ff:

Ku'om kaadi lebisne m geegun.

'Bailed water returns between my legs.'

Kù'om káadì lébìs né m geogo n.

(Charity begins at home.)

water bail.Ipf + return Foc 1S between.legs at

Ku'om zotne bian'ar zug.

pian'ar zug. 'Water runs on mud.'

Kù'om zót nε bịan'ar zúg. (You scratch my back ...)

water run.Ipf Foc riverbed on

Kuga la'asidne zuorin. 'Stones build up on a hill.'

Kugá là'asìd nε zuorι_n. (The rich get richer and the poor get poorer.)

stone.Pl gather.Ipf Foc hill_at

Kpεεⁿm á nε tê'εg, ò tìgìd nε bálàyà.

be Foc baobab 3A sate.Ipf with stick.Pl

'An elder is a baobab - he's fed up with sticks.' (Uneasy lies the head ...)

elder

```
'Hatched-in-the-rains doesn't know hawks.'
Awiak seung zi' senne.
À wiak seong
                 zı'
                                          (Fool's paradise.)
                         sίnnε .
Pz hatch rainy.season Ng.know hawk.Pl Ng
Po nye saa kuubo, ka nye saa niib.
                                          'Didn't see the rain coming, did see the rain.'
Pυ <sup>n</sup>yε saa kύυbɔ_,
                        kà <sup>n</sup>yε saa nîib. (Wise after the event.)
Ng see rain threaten.Gd Ng and see rain rain.Gd
                                          'Declared-innocent doesn't loiter in the court.'
Adi'e buud po zin'i na'ayiree.
À di'e bυυd pυ zín'i ná'-yiré.
                                          (Quit while you're ahead.)
Pz receive innocence Ng sit chief-house Ng
                                          'The thatch is off but the rafters remain.'
Moodi pilig ka yu'ada be.
                                          (Where there's life there's hope.)
Moodι pílìg kà yυ'ada bέ.
grass.Pl + strip.off and rafter.Pl exist
                                          'They say "ugly", you say "squashhead."'
Ba ye balerug ka fu ye zumauk.
Bà ye balɛrug, kà fù ye zug-máuk.
                                          (Six of one ...)
3P that ugly
               and 2S that head-crumpled
Buribig kunni o ba' yirne nobkoog daar.
Bù-dìbìg kúnní
                    ò ba' yír nε nɔb-kɔ̂ɔg dâar.
         go.home.Ipf 3A father house Foc leg-break.Gd day.
kid
'The kid goes back to his father's house on the day he breaks his leg.'
Bungdaug po kaasidi o tiraan tengine.
Bùŋ-daug pu kaasídí ò tırâan téŋı_nέ_.
donkey-male Ng cry.out.Ipf 3A peer land at Ng.
'The jackass doesn't bray in his neighbour's territory.'
Ba pu nokid na'ambinni lobigid naafo.
Bà pu nokíd na'-bínnì lobigíd náafo .
3P Ng take.Ipf cow-dung_+ throw.at.Ipf cow_Ng
'They don't throw dung at a cow.' (Coals to Newcastle.)
Kpeem ane te'eg, o tigidne balaya.
```

Zu'om ya'a ye o na lobug, bangim ka o none kugir.

Zu'om yá' yé ò nà lɔbιg, bàŋìm kà ò nò nε kugur.

blind.person if that 3A Irr throw.at realise.Imp and 3A stand.on with stone

'If a blind man says he'll stone you, know that he's got a stone under his foot.'

Balerigu zi' ye o a balerigu, ka tadim mi' ye o [a] tadim.

Balɛrugu_ zı' yé ò àn balɛrugó_, kà tadım mi' yé ò àn tadım.

ugly_+ Ng.know that 3A be ugly_Ng and weak know that 3A be weak

'The ugly man doesn't think he's ugly, but the weakling knows he's weak.'

Fu ya'a bood tampiing siind, fu po lem zot lieng daug nyoogo.

Fù yá' bood támpìing sîind, fù pu lém zòt líen dâug nyoogo.

2S if want.Ipf rock honey 2S Ng again run.Ipf axe wood sympathy Ng

'If you want honey out of a stone, you don't pity the axeshaft any more.'

Kukoma da zab taaba ason'e bi'ela yela.

Kùkòmà dá zàb taabá à sɔn'e bi'elá yèlà.

leper.Pl Tns fight each.other Pz surpass slightly about

'Lepers once fought each other about who was a bit better.'

Ba wa'ene anakoom nua yir, ka ba po wa'e anoos be yire.

Bà wà'e né à nà kóu m nua yír, kà bà pu wá'e à noos bé yíre.

3P go Foc Pz Irr kill 1S hen house and 3P Ng go Pz hen.Pl exist house_Ng

'They go to Will-kill-my-hen's house, not to Has-hens' house.'

(The rich are not always hospitable.)

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

Kìkirig yá' mɔr buudɛ, fun tísò kà ò lébìg ò mɔɔgu n.

fairy if have innocence 2S give_3A and 3A return 3A grass_at

'When a fairy is in the right, let it go back to the bush.' (Give the devil his due.)

Bung ya'a bood ye o lubuf, fu po nyeti o tubaa.

Bùn yá' bòɔd yé ò lubí f, fù ρυ ηγετί ò tùbaa.

donkey if want.Ipf that 3A throw.off_2S 2S Ng see.Ipf 3A ear.Pl_Ng

'If a donkey wants to throw you off, you don't see his ears.'

(Where there's a will, there's a way.)

Zu-wok daan po gangid bugum.

Zù-wok dâan pu gánìd búgúmm.

tail-long owner Ng step.over.Ipf fire Ng

'One with a long tail doesn't step over a fire.' (Avoid risks if you have a family.)

From Naden's dictionary:

Baas kae ka nwamis di'e poog.

baas ká'e_ kà "waamıs di'e poog.

dog.Pl Ng.exist_Ng and monkey.Pl receive farm.

'There are no dogs and monkeys have got the farm.' (When the cat's away ...)

One kunt mi zugub.

'An ironworker knows how to work the bellows.'

Ònì kùt mi' zugub.

DemA Nz work.iron.Ipf know blow.bellows.Gd.

Buligin ziŋ zi' kɔligin yɛlaa.

'A fish in a pool doesn't know about the river.'

Bùlìgı_n zîin zı' kɔlıgı_n yɛ́laa_.

pool at fish Ng.know river at about Ng

Other proverbs:

Bi'el bí'el kà kɔlıg pê'ɛl nɛ.

'Little by little, a river is full.' W

little little and river fill Foc

(Hausa Dà yayyafii kòogii kàn cìka.)

Bùη-ban'ad zι' ye teŋ túlla .

donkey-rider Ng.know that ground be.hot_Ng

'A donkey-rider doesn't know the ground is hot.' W

À daa yél ka' tîımm .

'Did-say is no remedy.' W

Pz Tns say Ng.be medicine Ng

(No use crying over spilt milk.)

À ηyε nε nif són'o à wùm tùbà. Pz see with eye surpass Pz hear ear.Pl 'Saw-with-eye beats Heard-with-Ears' W

(Seeing is believing.)

À zı' kpí nàm kpîid né kà ténbìd.

Pz Ng.know + die Pl die.Ipf Foc and struggle.Ipf

'Those who don't know death are dying with a struggle.' W (Storm in a teacup.)

Saan-súŋ á nε yi-dâan ánsìb.

stranger-good be Foc house-owner maternal.uncle

'A good guest is a householder's uncle.' K

(Entertaining is an opportunity for a celebration.)

13.3 From the 2016 Bible: Mark 5:1-15

Ka Yesu nε o nya'andɔlib kena paae Gerasene teŋin, Galile mu'ar nya'aŋ. Ka Yesu yi anruŋun la, ka dau onɛ ka kikiris dɔl o yi yaadin naa tu'us o. Dau kaŋa daa bɛ nɛ yaadin la, hali ka sɔ' kae na nyaŋi lɔɔ o nɛ banaa. Ba da ɛɛnti nɔknɛ bana lɔɔ o nɔba nɛ o nu'us. Ka o kɛns nu'us bana la ka kɛnsi kɛns nɔba bana la bas. Sɔ' da kae paŋi na nyaŋ oo. Nintaŋ nɛ yu'uŋ wusa o gɔɔndnɛ yaadin nɛ zuoya la ni ka mɔr kuga nwaad o mɛŋ ka maan tukpiidug.

On da nyɛ Yesu ka o bɛ lalli la, ka o zɔɔ keŋ igin o tuon ka tans ye, "Yesu, Wina'am onɛ ka' tiraan la Biiga, bɔ bɛ man nɛ fv svvginɛ? Wina'am sv'vm zug, m bɛlimnɛ, da namisi ma." Bɔzugɔ Yesu pvn yɛl o ye, "Kikiriga yim dau kaŋa san'an na." Nɛ'ɛŋa kɛ ka o yɛli ala. Ka Yesu bu'os o ye, "Fv yv'vrɛ?" Ka dau la lɛbis ye, "M yv'vri buon Babiga, bɔzugɔ, ti galis nɛ." Ka o bɛllim Yesu nɛ nimmua ye o da kad kikiris la yis teŋ kan la nii.

Kukurnam bɛdegυ da bɛ zuor la babaa dit ka ba kal an wυυ tusa ayi'. Ka kikiris la bɛllim o ye, "Kɛl ka ti keŋ kpɛn' kukurnam la ni." Ka o siak ka kikiris la yi dau la ni kpɛn' kukurnamin la. Ka ba wυsa zɔɔ sig bɛuŋin ka ku'om dii ba.

Dap bane da gur kukurnam la da zɔɔ keŋ tempvvgin ne temkpemisin tu'as line maal la wvsa. Ka nidib yii keŋ ye ba gɔs line maal. Ban da paae Yesu san'an la, ba nye ka dau kane ka kikiris daa dɔl o la zin' anina, ka ye fuud ka o ya'am tiaki an sv'vm. Ka dabiem kpen' ba.

pae Gerasene téŋı_n, Galile mû'ar nyà'aŋ. Kà Yesu nέ ò "ya'an-dóllìb ke na and Jesus with 3A disciple.Pl come hither + reach Gerasene land at Galilee lake east Kà Yesu yi ánròno n la, kà dao ónì kà kìkiris dóllo yi yáadι n naa tυ'υsó . the and man DemA Nz and fairy.Pl accompany 3A + exit grave.Pl at hither + meet 3A and Jesus exit boat at Dày-kàŋa daa bέ nε yáadı_n la, halí kà sɔ' ka'e_ ná ¬yaŋι_ lóo_ nε banaa_. Tns exist Foc grave.Pl at the even and IdfA Ng.exist + Irr prevail + tie 3A with fetter.Pl Ng Bà dà εεⁿ tí nɔk nε bana lóɔ ò nɔbá nέ ò nû'us. Kà ò kéns nû'us bánà la, kà kénsì 3P Tns usually take Foc fetter.Pl + tie 3A leg.Pl with 3A hand.Pl and 3A break hand.Pl fetter.Pl the and break + kèns nobá bànà la. So' dá ka' páηὶ ná "yanó o . Nintan nε yú'un wusa, ò gòɔ"d break leg.Pl fetter.Pl the IdfA Tns Ng.have power + Irr prevail 3A Ng day nε yáadı n nε zuoya la ní kà mor kugá "wá'ad ò méŋ kà mâan tùkpudug. Foc grave.Pl at with hill.Pl the at and have stone.Pl + strike 3A self and make.Ipf tumult 'Jesus and his disciples came to the land of the Gerasenes, east of Lake Galilee. After Jesus left the boat, a man afflicted by demons came from the tombs to meet him. This man had been among the tombs, until nobody was able to shackle him. They would shackle his feet and hands, but he broke the hand fetters and shattered the leg fetters. Nobody had the strength to overcome him. Day and night he roamed among the tombs and hills cutting himself with stones and making a commotion.'

Ón dà ηyε Yesu kà ò bέ lallí la, kà ò zóo ken ígìn ò tùon kà táns ye, 3A.Nz Tns see Jesus and 3A exist far the and 3A run + go + kneel 3A before and shout that "Yesu, Wínà'am ónì ka' tιrâan la Bíiga, bo bé man né fù sùugu né ? Iesus God DemA Nz Ng.have peer the child Voc what + exist 1S with 2S between CQ Wínà'am sô'm zùg, m̀ bélìm nε, da namιsí ma ." Βο zúgo Yesu pón yèlo ye, goodness on 1S beg Foc Ng.Imp persecute 1S Ng because Jesus already say 3A that "Kìkirigá, yìm dáy-kàŋa sân'an na." Νε'εŋa kέ kà ò yέlì àlá. Kà Yesu bu'osó_ ye, exit.Imp man-Dem by hither DemI let and 3A do thus and Jesus ask 3A that "Fừ γυ'υτέ ?" Kà day la lébìs ye, "M γυ'υτι bûon Bábìga, bɔ zúgɔ, tì gálìs nɛ." 2S name CQ and man the reply that 1S name + call.Ipf many because 1P exceed Foc Kà ò bέlìm Yesu nε nin-múa yé ò da kád kìkiris la yis téŋ-kàn la nίι . Jesus with earnestness that 3A Ng.Imp drive fairy.Pl the + expel land-Dem the at Ng 'When he saw Jesus far off, he ran and knelt before him and shouted: "Jesus, Son of God who has no equal, what is there between me and you? By God's goodness, I beg you not to torment me." For Jesus had already said to him: "Demon, come out of that man"; that made him say this. And Jesus asked him: "What is your name?" The man replied, "My name is Many, because we are too many." And he begged Jesus earnestly not to drive the demons out of that country.'

Kùkur-nám bédùgv dá bè zuor la bábàa_ dìt kà bà kal án wvv tusá àyí. Kà pig-Pl much The exist hill the beside_+ eat.Ipf and 3P number be like thousand.Pl two and kìkiris la bélìmò_ ye, "Kèl kà tì ken_ kpén' kùkur-nám la ní." Kà ò siák kà kìkiris la fairy.Pl the beg_3A that let.Imp and 1P go_+ enter pig-Pl the at and 3A agree and fairy.Pl the yi day la ní_ kpèn' kùkur-námı_n la. Kà bà wvsa zóo_ sig beoní_n kà kù'om díu_ba. exit man the at_+ enter pig-Pl_at the and 3P all run_+ descend lake_at and water eat_3P 'There were many pigs grazing beside the hill, about two thousand in number. And the demons begged him: "Let us go into the pigs." He agreed for the demons to leave the man and enter the pigs. And they all ran down into the lake and were drowned.'

Dàp-bànì dà gur kúkur-nám la dá zòo keŋ téŋ-pvvgó n nɛ téŋ-kpɛmisi n tô'as man-DemP Nz Tns watch pig-Pl the Tns run + go town at with village.Pl at + talk línì màal la wúsà. Kà nidib yii ken yé bà gɔs línì màal. Bán dà pae and person.Pl exit + go that 3P look DemI Nz make 3P.Nz Tns reach Yesu sâⁿ'an la, bà ⁿyé kà dày-kànì kà kìkiris daa dɔlló la zíⁿ'i ànína, kà yέ fuud, the 3P see and man-Dem Nz and fairy,Pl Tns accompany 3A the sit there and don cloth.Pl kà ò ya'am tiákì à sô'm. Kà dàbiem kpέ ba. and 3A sense change + be goodness and fear enter 3P 'The men who had been guarding the pigs ran to the town and villages to tell all about what had happened, and people came out to see what had happened. When they came to where Jesus was, they saw the man who had been afflicted by demons sitting there, clothed and with his mind put right, and they were afraid.'

13.4 Newspaper article: Power and fuel conservation

This 1992 article is from the newspaper *Tampana*, published by NFED, the Non-Formal Education Division of the Ghanaian Ministry of Education. The Ahibenso stove mentioned in the article was a type of "improved cookstove" rolled out in the early 1990's; for the background see Adusah-Poku and Takeuchi 2019.

The spelling is frequently non-standard, and the language shows signs of influence from Toende Kusaal: note in particular the preservation of g after long open vowels and the consistent use of ne for the nominaliser particle n §1.2.1.

The following loanwords are left untransliterated: ikku 'power', Hausa iikòo; baneka 'powered grinding machine', Hausa mài nikàa 'grinder' (cf Toende baneka, Mampruli manyɛka); ma'antuoka 'motor car' (cf Mampruli mantuuka); kurpotto 'stove' ("coal pot", cf Mampruli kurupootu); gaas 'gas'; latirisiti 'electricity.'

PAN NE BUNTUGUDA BIEKKIR

Fu mi' PAŊ ne a sielaa? Ti mi' ye paŋ ane giriŋ kane na nyaŋe tum tuuma, amaa paŋ me lem mor gbin yinne ya'as, nwen wu buntuguda ne mor ikku kane na' nyaŋe dug diib, be kpaam kane ka ma'antuoka ne baneka ne nu ka nyaŋe tum. Paŋ kaŋa buudi ya'a kai tuuma me kai. Ti bood paŋe ti vom poogen daar wusa. Amaa li nar ka ti nok paŋ kane ka ti mor la tum ne yam ka da mori li n tum ya'abeilim tuuma.

Nasar bugum be latirisiti me ane paŋ wu bugum tuulug ne, winnik be pebsim ne bugum daad me ane paŋ ka mor ikku na tum siel.

Tinam ne mi siel ti yaanam saan ane ye ti dug da'aŋvuod zug ka kurpotto naam kena. Dunia tiakiya, ka saal biig yam me nobig, nananna ti tune dug ne nasar bugum be gaas. Dugub ne da'aŋvuod la mor yel gu'uda bedegu. Daad be kikan' ieb tuoi. Daad nwaab ket ne ka ba lubid tiisi naagid. Line me paas ane nyuos la tun'e sa'am nini. Ten'esim fu nini ne yuod ne kuom siem fu ya dugid da'aŋvuod zug. Nyuos la me ket ne ka fu pu tun'e vo'osida bozugo pebsim kai, ka me lem sobigid zanguom nyolu ne vugulum. Lime pu venl nini nii. Li me bood ye fu eti maali li nme ka taagi li ne bumbon ka li naam venl. Bugum zi'eoŋ me ket ne ka da'aŋ la ne dugud be laas wusa si' ne vugulum. Diib dugub me yuugid hali bozugo bugum walim la wusa pu paagid dug la gbin ne. Ligidi bedegu me kpen'ed daad be saana da'abin. Saana me did toto ka li pu yuugida bozugo pebsim nwe'ed bugum la ne sansa wusa.

Amaa da'aŋvuod bee kurpotto paalig yina. Li pu nwen wu latirisiti be gaas si'em la. Li yuur ane 'AHIBENSO'. Ahibenso kurpotto la ligidi pu zuoi, ka me pu dit daad be saana bedegu, bozugo ba maali li ne ka li tun'e gu'ud bugum tulug la ka me ket ka saana la put dit ti naagit sansa wusa. Diib dugub li zug pu yuugid ka me lem pu tuoi yaa. Fu yaa dugit ne li, li pu ziesida, li me tebis. Fu tun'e dug ne li fu doogun. Fu tun'e paam li n da' ziig wusa teŋ poogen. Da'am yinne ka da sa'amid buntuguda.

Pàŋ nε bun-túgùdà bịánkìr

power with firewood economise.Gd

'Power and fuel conservation'

àn sí elàa ? Tì mí ye pán á ne gírìm-kànì Fù mí' pán nà nyanı tóm touma, 1P know that power be Foc importance-Dem_Nz Irr prevail_+ work work.Gd.Pl 2S know power Nz be IdfI PQ àmáa pàn mé lém mòr gbín yınní yâ'as, nwen woo bon-túgùdà mòr ikku-kànì nà power also again have bottom one again resemble like firewood + have force-Dem Nz Irr "yanı dug dııb, bεε kpaam-kánì kà ma'antuoka nε baneka nú kà "yanı túm. prevail + cook food or oil-Dem Nz and motorcar with grinder Nz drink and prevail + work Pàŋ-kàŋa búudì yá' kae' tuuma mé ka'e . Tì bɔɔd páŋí tì vum púugu n daar wusa. power-Dem kind if Ng.be work.Gd.Pl also Ng.be Ng 1P want power 1P life inside at day all Àmáa lì nàr kà tì nok páŋ-kànì kà tì mor la tóm ne yam, kà da morí li n tóm 3I must and 1P take power-Dem Nz and 1P have the + work with sense and Ng.Imp have 3I + work but va'a bélím túvmàa .

opportunity be.Gd work.Gd.Pl Ng

'Do you know what "power" is? We know that power is the authority to do things, but "power" has another meaning too, like firewood having the energy which can cook food, or like the oil which a motor vehicle or a powered grinder takes in to enable it to work. If this kind of power is lacking, so is work, too. We need power in our lives every day. But it is necessary for us to use the power that we have to work sensibly, and not to use it in a casual way.'

Nàsàar-bùgúm bee latirisiti mé á ne pán wuu búgúm túulùg ne; wìnnìg bee pébìsìm European-fire or electricity also be Foc power like fire heat like sun or wind ne búgúm dâad mè á ne pán kà mor ikku ná tum si'el.

with fire log.Pl also be Foc power and have force + Irr work IdfI

"European fire" or "electricity", is also power, like the heat of a fire; sun or wind and firewood are also power and have the energy to do something.'

Tιnámì mi' si'el tì yaa-nám sân'an á nε yé tì dúg dán'an-vu'ad zúg kà kurpotto know IdfI 1P ancestor-Pl by be Foc that 1P cook hearth.stone.Pl on and stove nâam ke na. Duniya tiák ya, kà sàal-biig yám mè nɔbɪg, nannánna tì tún'e dug happen + come hither world change NSb and human sense also grow now 1P be.able + cook nε násàar-bùgúm bεε gaas. Dugub nε dàn'aŋ-vu'ad la mór yεl-gú'udà bέdùgυ. with electricity cook.Gd with hearth.stone.Pl the have matter-watchful.Pl much σas Dàad bεε kíkán'a îeb tòe. Dàad nwâ'ab kèt né kà bà lubid log.Pl or stalk.Pl search.Gd be.difficult log.Pl break.Gd let.Ipf Foc and 3P knock.down tree.Pl + finish.Ipf Lìnì mè pàas á ne "yo'os la tu" e sâ" am niní. Tè" esím fò niní yùod ne kû'om DemI Nz also add be Foc smoke the + be.able + spoil eye.Pl think.Imp 2S eye.Pl flow.Ipf with water si'em fù yá' dugud dán'aŋ-vu'ad zúg. nYɔ'ɔs la mɛ́ kɛ̃t nɛ́ kà fù pu tun'e vu'usída 2S if cook.Ipf hearth.stone.Pl on smoke the also let.Ipf Foc and 2S Ng be.able + breathe.Ipf bo zúgo pèbìsìm ka'e , kà mé lèm sobigíd zángùom nyolv nε vugulím. Ng.be Ng and also again blacken.Ipf wall because wind Ideo with soot niní nιι . Lì mè bôɔd yé fù εεⁿ tí màalì lı n mé kà táa lι nε bun-bón Lì mà pu vénl 3I also Ng be.beautful eye.Pl at Ng 3I also want.Ipf that 2S habit make 3I + build and plaster 3I with plaster Bùgúm zî'υη mè két né kà dàn'an la ne dugud bee laas wusa si' kà lì nâam vὲⁿl. and 3I happen + be.beautiful fire intensity also let.Ipf Foc and hearth the with pot.Pl or dish.Pl all stain ne vugulím. Dub dógòb mè yúugìd halí bo zúgo bùgúm wálìm la wósà po paad food cook.Gd also take.long.Ipf very because fire steam the all duk la gbínne . Ligidi bédùgu mé kpên'ed dâad bee saana dá'abι n. Saana pot the bottom Ng money much also enter.Ipf log.Pl or charcoal.Pl buy.Gd at charcoal.Pl also dít tó'ɔtó kà lì pu yúugìda bɔ zúgɔ pèbìsìm nwên'ed búgúm la ne sansá wusa. eat.Ipf suddenly and 3I Ng take.long Ng because wind hit.Ipf fire the with time.Pl all 'What we know from our forebears is that we cook in fireplaces, and the stove developed. The world has changed, and human knowledge has grown too: now we can cook with electricity or gas. Cooking in fireplaces has many issues requiring care. It is difficult to search for wood or millet stalks. Cutting logs leads to felling trees completely. An additional thing is the smoke that can damage the eyes. Think of how your eyes stream with water when you cook in fireplaces! The smoke also stops you from breathing because there is no air, and it also turns the wall completely black with soot. That is not pretty to look at; also it requires you to be always rebuilding it and covering it with plaster to look well. The intensity (?) of the fire also makes the hearth and the cooking-pots or dishes get stained with soot. The cooking of the food also takes a very long time, because the heat of all the fire doesn't get to the bottom of the pot. A lot of money also goes into the buying of wood or charcoal. Charcoal also burns quickly and doesn't last long, because the air hits the fire all the time.'

Àmáa dàn'an-vo'ad bee kurpotto-paalíg yí na. Lì pu nwεn wuu latirisiti come.out hither 3I Ng resemble like electricity hearth.stone.Pl or stove-new bεε gaas si'em la . Lì yo'or á ne AHIBENSO. Ahibenso kurpotto la lígidì how the Ng 3I name be Foc Ahibenso Ahibenso stove the money kà mế ρυ dít dâad bεε saana bédògu , bɔ zúgɔ bà máalì lι né kà lì pυ zú'ee , Ng get.higher Ng and also Ng eat.Ipf log.Pl or charcoal.Pl much Ng because 3P make 3I Foc and 3I gu'ud búgúm tóvlòg la kà mé két kà saana la pv dítì naad heat the and also let.Ipf and charcoal.Pl the Ng eat.Ipf + finish.Ipf be.able + watch.Ipf fire sansá wusa . Dub dúgùb lì zug pu yúugìd kà mé lèm pu togyá . Fù yá' dugud ní li, time.Pl all Ng food cook.Gd 3I on Ng take.long.Ipf and also again Ng be.bitter_Ng 2S if cook.Ipf with_3I lì po zíesìda, lì mè tèbìs. Fò tún'e dog ní li fò dòogo n. Fò tún'e pâam li n dá' 3I Ng wobble.Ipf Ng 3I also be.heavy 2S be.able + cook with 3I 2S hut at 2S be.able + obtain 3I + buy zin'ig wusa tén-puugú n. Dà'am yınní kà da sán'amid bun-túgùdà. buy.Imp one and Ng.Imp spoil.Ipf place all town at 'But a new fireplace or stove has come out. It's not like electricity or gas. It's called "Ahibenso." The Ahibenso stove is not expensive, and it doesn't use much wood or charcoal, because it's been made so it can regulate the fire temperature and ensure that the charcoal is not always completely burnt up. Cooking food on it doesn't take long and is also not difficult. When you're cooking with it, it doesn't wobble: it's stable. You can cook with it in your room. You can obtain it for purchase everywhere in town. Buy one and don't waste firewood!'

14 Vocabulary

Ordering ignores 'n and the distinctions ɛ/e ư/i ɔ/o ʋ/u; ŋ follows n. Nouns are unlabelled, and listed as Sg (if used), Pl and CIF (followed by a hyphen.) Subentries beginning with hyphens are to be taken with the CIF of the headword. For adverbial nouns/postpositions see §9.7.2. Adjectives are listed by one Sg form only; for their flexion see §5.2. 2Vbs are listed by Pf, with Ipf/Imp and deverbal nominals only if irregular; deverbal nominals from 1Vbs are given in §6.1.1. See §8.3 for proper names, and §8.5.1 for numerals with the prefixes à n bà bù.

à Pn personaliser §8.2.1; nouns always preceded by à include: dàalúŋ, dàalís/dàalímìs dàalúŋ- stork; gâυng₂ gâand gan- pied crow; kora-dîem_{ma} kora-dîem-nàm_a mantis; mús mús-nàma cat (Hausa mussàa) à ne see àenva aandıga aandıs àand- black plum tree, Vitex doniana aandır aanda black plum àans 2Vb tear àbùlá Qf how many-fold? àenva 1Vb be something àeⁿ 2Vb get torn àgól_i/àgolá upwards àlá Pn thus; Qf so many; how many? àláafù (in greetings) health (cf láafìyà) àlópìr àlópìyà aeroplane (English) àmáa Pt but §10.1 (Hausa àmmaa) àmεŋá really, truly àmí Pt amen (Arabic āmīn) àní/ànína´ Pn there ànina promptly ànɔ̂'on Pn who? àntù'a àntuà'- lawsuit anzúrìfà silver (Hausa azùrfaa) àràzàka àràzà'as àràzà'- (usually Pl) riches (Arabic Pl arzāq) àràzánà heaven (Arabic al-jannah)

-A-

ànròŋɔ ànrìmà ànròŋ- boat
ans 2Vb pluck leaves
àséε Pt except for §9.7.3
ánsìba -náma ans- mother's brother
àsida truly
ansig´ 2Vb break at an angle
ansíŋa ansís ansiŋ- man's sister's child
àsùbá dawn (Arabic al-ṣubḥah)
àtèukɔ sea (Hausa tèeku)
ànwá/awána´ Pn like this
áyìι Pt no §10.3.4

-B-

bà/ba Pn 3P ba' - náma ba' - father ban' 2Vb ride baa baas bà- dog báa Pt not even §11.2 (Hausa *bâa* 'not be') ba'a ba'aba bà'a- diviner; -kɔ̀lùgɔ diviner's bag ba'a ba'as bà'- peg for hanging up bàn'ada bàn'ad-nàma ill person ban'al´ 2Vb make ride (horse, bicycle) bàaⁿlìg_a Adj thin baanlímm LF baanlímnè Ideo quiet bà'ar bàdà/bà'a bà'- idol ban'as bàn'- disease babá beside bàbìga' Qf many

hálmà a ma ala (IIama a halimài la man)	heave heard has bind of wide mouth not
bákpàe week (Hausa <i>bakwài</i> 'seven')	besugo besid bès- kind of wide-mouth pot
bànl _{la} 1Vb be thin	bì 2Vb ripen, mature
bàlàar bàlàyà bàlà- stick, club	bi'a see bε'og ₅
bàlàŋìr bàlàŋà bàlàŋ- hat	bian'ar´ bián'a bian'- mud, riverbed
balɛrugɔ´ balɛrɪd´/balɛrɪs´ balɛ́r-	biank´ 2Vb economise with, keep aside
ugly person	biaynk ₂ bian'ad biàn'- shoulder
bàmma´ Pn these	bíel _l Adj naked
bàn Pn these	bìel 2Vb accompany
bán Pn 3P+n; ban 3P	bi'elá Qf a little;
ban _n bana bàn- fetter	bi'el bi'el Qf little by little; very little
banaa banaas bànà- "fugu" smock	bielíf _o biilí biel-/biil- seed
bàn-daug _o bàn-daad bàn-dà- crocodile	bi'em -nàm _a bì'em- enemy
ban-kúsél _l ban-kúselá ban-kúsel- lizard	bien _n biena bìen- shin
baŋa baans bàŋ- ring, chain, fetter	bier´ bieyá bia- elder same-sex sibling
bàŋa agama lizard	bì'es 2Vb doubt
bàn 2Vb come to know	bìgìs 2Vb show, teach
bárìkà blessing (Arabic barakah)	biig _a biis bi-/bì- child; bi-díbìŋ _a boy;
bàs 2Vb go away; abandon; throw out	bi-púŋ _a girl; bì-lia baby; bì-nà'ab _a
(kpὲn') bàṇŋὑ get circumcised (Songhay)	prince(ss); bì-pita´ younger child
bàyεog ₂ ´ betrayer of secrets	bì'ig 2Vb ripen, get pregnant
bὲ 1Vb exist; be somewhere	bìilím childhood
bὲn' Gd bεn'εs 2Vb fall ill	bum´ bı- soup, stew
bɛdɪg´ 2Vb rot	bìn'isím milk
bèdùg _ə Adj great	bìn'isìr bìn'isà bìn'is- woman's breast
bèdùgu´ Qf much, a lot	bil _a Adj little
bεε Pt or; in questions §10.3.1	bìlìg 2Vb roll (transitive)
bèlìm 2Vb beg	bìlìm 2Vb roll (intransitive)
bèlìs 2Vb comfort	bìmbìm _n bìmbìmà bìmbìm- mound,
bεn _n bεna bὲn- end	pillar of earth; altar B
bèŋ 2Vb mark out boundary	bin _n excrement
bεŋίd bɛŋ- cowpea leaves; bɛŋίd nɛ ki	bɔ bò- Pn what? why? §8.2; bɔ zúgɔ why;
leaf-and-millet (a traditional snack)	because §10.1
bεŋίr bεŋá bεŋ- cowpea	bò 2Vb seek, Ipf want; bòɔdìm will
bε'og _o Adj bad	bòbìg 2Vb wrap round
bεog ₂ tomorrow; bὲ-kὲo ⁿ g ₂ /bὲ-kìkὲo ⁿ g ₂	bòdìg 2Vb lose, get lost
dawn; bεogυ_n morning; bεog sá/bεog	bòdòbòdò bread
daar in future; bεog níe kà next day	bòk _ɔ bù'ad buà'- pit
bεοη _ο bεεna bὲοη- pool, lake	bɔ̀n'ɔgɔ swamp; ricefield
bèrìŋa bèrìgìs kenaf	bɔsır bɔsa bòs- puff adder
bεrιga bὲrìg- kenaf leaves	bɔtυ sack (Twi)
bὲ ⁿ sìg 2Vb serve soup	טט' 2Vb beat

buàk 2Vb split bood innocence bù'ar buà'a buà'- hole buudi bùud- kind, sort, ethnic group bu'ar´ buá'a bua'- skin bottle buuga buus bù- goat; -dìbìga male kid bùd Gd budıga/buduga 2Vb sow seeds bùdaa man; bùdàalìm manhood, courage -Ddà Pt before two days ago §9.2 bùdìm Gd bùdìmís 2Vb get confused bù'e 2Vb pour out da Pt not (imperative negative) §9.3 bùg 2Vb get drunk (Hausa bùgu) dà' 2Vb buy buguda client of diviner dàa Pt day after tomorrow §9.2 bùgùlìm 2Vb cast lots daa Pt before yesterday §9.2 bugur buga bùg- abode of a winn'; dà'a dà'as dà'- market winn from mother's kin as sigir dà'abìr slave bùgúm bùgum-/bùgúm- fire; dàalìm masculinity Bùgúm-tɔɔnr Fire Festival dàalím dàalímìs male organs bugusa' 1Vb be soft daam' da- millet beer, "pito"; bugusíga Adj soft, weak; -bín_n beer residue; yeast B bugusíga' softly; bugusím softness dàam 2Vb disturb (Hausa dàamaa) buk' 2Vb weaken daana -nàma dàan- owner of ... bùk 2Vb cast lots dàn'ana dàn'amìs dàn'an- hearth bùl 2Vb germinate, ooze -viaynka -vian'ad hearth-stone bul_l bula sprout -vu'ad hearth-stones, fireplace bùl 2Vb astonish daar daba dà- day, date bùlìga bùlìs bùl- well, pond daar two days ago/hence bùmbàriga bùmbàris bùmbàr- ant daa-sî'er perhaps §10.1 bunn´-náma/buná bun- thing; dàbiem fear -bɔ́n_n plaster (for a wall); dàbiog, dàbied dàbià- coward -gíŋa short fellow (informal); dàbìsìr dàbìsà dàbìs- 24-hour period -kɔ́nbùgɔ -kɔ́nbìd -kɔ́nb- animal; dadúk, kind of large pot -kúdùg₂ -kút old man; da'e' 2Vb push; (wind) blow -mór_a rich person dàgòbìga left; south B -túgùdà firewood, kindling daká -nàma daká- box (Hausa àdakàa) bùn 2Vb reap, harvest dàkiiga dàkiis dàkì- wife's sibling/sister's bun-dâar Pn which day? husband §8.4 bùŋa bùmìs bùŋ- donkey dàkòn dàkòn dàkòn unmarried son bùol 2Vb call, summon dàm (-mm-) 2Vb shake dàmà'a liar; dàmà'am/dàmà'ar lie bùor buòyà buà- grain store bu'os' 2Vb ask; Gd bu'osúg, question dampusaar/dànsàar staff, club bùrìkìna -nàma bùrìkìn- free, dàŋkɔŋɔ measles honourable person (Songhay) dàpaala´ young man, son buriyá Christmas (Twi) dàsana dàsaans/dàsamma dàsànbutina butiis bùtin- cup young man

dàtaa dàtaas dàtà- enemy	dì-zɔrugɔ´ dì-zɔrá dì-zɔr- crumb
dàtìvnə right-hand; north B	dol _{la} ´ 1Vb accompany
day dap _a dày- (Pl head dàp-) man	dolig´ 2Vb make accompany, send with
daugo Adj male	donlig´ 2Vb stretch oneself
dàugo dàad dà- log; -kpi'eda carpenter;	dolis´ 2Vb follow, trace §10.4.2
-puudir -puuda cross B	dòɔgə dòɔd/dòt dò- house, hut; clan;
dàwàlìga hot humid season before rains	dòog bîig _a housecat
dàwan _n ' dàwaná dàwan- pigeon	dòɔngɔ dòɔnd dòn- dawadawa fruit
dàyáam _{ma} -nám _a dàyaam-	dɔn'ɔs 2Vb water plants
husband's parent §8.4	dυ Ipf dut _a ´ Imp dùm _a 2Vb go up
dàyuug _o ´ dàyuud´ dàyu- rat	duà' 2Vb bear/beget; du'ada relative
dèbìr dèbà mat, pallet, bed	dùan dòons dòn- dawadawa tree
dèeg _a dèes dè- warthog	dù'al 2Vb (loan) make interest
dεεŋ _a Adj first	do'am birth
dεl _{la} ´ 1Vb (person) lean	dύ'atà doctor (English)
dèlim 2Vb (person) start leaning	due´ 2Vb raise, rise
dεη _a dεmιs dèŋ- accidental bruise; defect	dug 2Vb cook
-	
dèn 2Vb go/do first	duk _o ´ dugud´ dug- cooking pot;
dèŋìm Pt beforehand §9.4.3 dì Pn 3I	dugub dút cooking pots dùm 2Vb bite
dì Ipf dìt _a Imp dìm _a 2Vb eat, get; Gd	dum _n duma dùm- knee
dub _o food; ò dì pua' he's taken a wife;	dùndùug, dùndùud dùndù- cobra
ò dì "yán she's ashamed	duniya duniyá- world (Arabic <i>dunyā</i>)
dial 2Vb get dirty	dunná this year
dia'ad´ dirt	duna dumis dùn- mosquito
di'e´ 2Vb receive	duor´ duoyá dua- stick du'os´ 2Vb lift up, honour
dì'em 2Vb play; Gd dì'emà festival	-
diem _{ma} -nàm _a diem- wife's parent §8.4	dùr _a 1Vb be many
di'es´ 2Vb receive (many things)	duluní 2Vb pass water
dıgıya' 1Vb lie down	du'uním du'un- urine
digil' 2Vb lay down	duusír step
dìgìn 2Vb lie down	E
dìgìr dìgà dìg- dwarf	-E-
dıgısúg _o bed; (Pl) lair	ènbìs 2Vb scratch
dùs 2Vb feed; dùs _a glutton	è ⁿ d 2Vb plug up
dilsúŋɔ dilsímà/dilsís dilsúŋ- spoon	è ⁿ dìg 2Vb unplug
dìm _a dìn _n Pn (dummy head)	εε ⁿ Pt yes §10.3.4
dín din see lín lin	εε ⁿ /εε ⁿ tí Pt habitually §9.4.2
dìndɛogɔ´dìndɛɛd´dìndɛ-chameleon	εε ⁿ b´ 2Vb lay foundation
dìndùs _a glutton	εε ⁿ bír foundation
dìtúŋ _ɔ right-hand	εʰrιg´ 2Vb shift along on buttocks

-F-	gbε̂ε ⁿ m gbε ⁿ - sleep
f ₂ Pn 2S	gbè'og ₂ gbè'ɛd/gbèdà gbè'- forehead
fan/faen´ 2Vb grab, rob; save	gbèog, lakeshore
faan Qf every	gber´ gbeyá gber- thigh
faangída saviour (Toende)	gbıgım _n gbıgıma gbìgìm- lion
faangír salvation (Toende)	gbìn _n gbìnà gbìn- buttock; (hill) foot;
fáss Ideo for pieliga white	meaning; below; -vכֹכיr anus
fε ⁿ dιg´ 2Vb turn round	gbis 2Vb sleep
fεεg´ 2Vb (food) get old, cold	gε ⁿ 2Vb get tired
fen'og _o ´ fen'ed´ fen'- ulcer	gen' 2Vb get angry
fjaunk _o ´ fjan'ad´ one-eyed person	gεεl´ 2Vb place between legs (TP H)
fieb 2Vb beat	gεε ⁿ m´ Gd gεε ⁿ mίs 2Vb go/send mad
fii ⁿ Qf a little (liquid)	gέε¬η _a gεε¬mís madman
fi'ig 2Vb cut off	gél _l gelá gel- egg
fitılá lamp (Arabic fatīlah 'wick')	gεog _{>} place between legs (TP A)
fɔɔs´ 2Vb (wind) puff	gìgìlìm 2Vb go dumb
fò Pn 2S	gii ⁿ lím shortness
fùe 2Vb draw out	gìk _a gìgìs gìg- dumb person
fufum _n fufuma fufúm- envy; stye	gilig´ Ipf gin _{na} ´ 2Vb go around
fún Pn 2S+n; fun 2S	gim _{ma} ´ 1Vb be short
fuug _o ´ fuud´/fut´ fu- clothing; cloth	gìŋ 2Vb scrimp
	giŋ´ 2Vb surround, intercept, obstruct
-G-	giŋa Adj short; giŋa shortly
gaa ⁿ ´ gaa ⁿ s´ ga ⁿ - African ebony,	girima importance, prestige
Diospyros mespilliformis	(Hausa <i>girmaa</i>)
gàad Ipf gàt _a 2Vb (sur)pass	gòn 2Vb hunt; Ipf gòonda wander,
gáafàrà sorry!	Gd gòɔʰdìm
(Hausa <i>gaafaràa,</i> from Arabic)	gɔdɪg´ 2Vb look up
gà'al 2Vb button up	gɔ'eya´ W gɔl _{la} ´ K 1Vb look up
gà'am 2Vb grind teeth	gò'ɔn 2Vb look up
gàas 2Vb pass by	gɔra´ D 1Vb look up
gadv´-nám _a gadv- or gadvg _ɔ ´ gat´ gad-	gɔs Ipf gɔsɪda´/gɔta´ Imp gòsìma/gòma
bed (Hausa <i>gadoo</i>)	Gd gɔ́sìga 2Vb look; gɔta´ seer
gàlìs 2Vb become excessive	gu' 2Vb guard, take care of
gàn 2Vb step over	gùn'a gòn'os gòn'- thorn; acacia;
gan´ 2Vb choose	-sabılíg _a Acacia hockii
ga¤r´ ga¤yá ga¤r- ebony fruit	gùl 2Vb hang; gùl _{la} 1Vb hang
gban'e´ 2Vb catch, grab; decide, plan	gùllımm LF gùllımne Pt only §11.2
gbányà'a idle person; gbányà'am laziness	gùm _n gùmà kapok fruit; thread W
gbaṇŋɔ´ gbaná gban-/gbaṇŋ- animal skin;	gumpuzer´ gumpuzeyá gumpuzér- duck
book (TP L, W); gbàṇŋ-mi'ida´ B scribe	gùŋa gùmìs gùŋ- kapok, Ceiba pentandra

kàn Pn this/that

gùŋgum_n kapok material kàna´ Pn this/that gura 1Vb guard, watch for kàra 1Vb be few gu'ul' 2Vb set on guard karıfá/kerıfá o'clock §9.7.2.2 gù'ulìm 2Vb get half-ripe (Hausa *karfèe*) gòur gòyà gò- upland; riverbank kàrìm 2Vb read gυυr gυya gù- ridge of back kàseta´ witness; testimony (? French cacheté 'sealed'); kàsɛtíba witnesses gu'us´ 2Vb take care, watch out gu'us half-ripe fruits kε Ipf kεta' Imp kèla 2Vb let §10.4.2 kεⁿ Ipf ken_{na}′ Imp kèm_a Gd ken_n′ 2Vb -Hcome; ken ken welcome! halí Pt even, until §9.7.3 kὲεkὲ -nàma kὲεkὲ- bicycle (Hausa kèekee) kèss 2Vb bid farewell to -Ikèlìg/kèlìs 2Vb listen ja LF ia 2Vb seek jan'as' 2Vb leap ken´ Ipf ken_{na}´ Imp kèm_a 2Vb go, walk; iank´ Ipf ian'ada´ 2Vb leap, fly ken_{na}' traveller igi_{va}′ 1Vb kneel kὲⁿs break igil´ 2Vb make kneel kià' LF kì'a 2Vb cut ìgìn 2Vb kneel down kidig 2Vb cross over, meet; íılı ıılá ııl- horn à Kidigu bu'os Orion kief₂′ ki′ ki-/ka- millet; isir isa ìs- scar isig 2Vb get up early ka-wennır ka-wenna ka-wén- corn kι'ιb₂' soap; W kiibú kiib- (Mampruli) kùs 2Vb listen -Kkı'ıs' 2Vb deny kà Pt and, that §10.1 kìkan'ar' kìkán'a millet stalk ka 2Vb bail water ka' (before an object) see kae' kìkàm_n kìkàmà fig kaab' 2Vb offer, invite kìkàna kìkàmis kìkàn- Cape fig tree kaal' 2Vb count kìkiriga' kìkiris' kìkir- local English kaas' 2Vb cry out, weep; crow (cock) "fairy" §1.1; demon B2/3 (-bɛ̂'ɛd in B1) kà'asìge alternative LF of kae' kilim' 2Vb become, change into kànb Gd kanbur 2Vb scorch kim 2Vb herd animals kabıg' 2Vb ladle out kímm Ideo firmly, fast; exactly §8.2 kabır' Gd kabırí 2Vb call for admission $kinkan_a$ (etc) = $kikan_a$ kàd 2Vb drive off; kàd sàríyà 2Vb judge kir Gd kìkírùg₂/kirib₂ 2Vb hurry, tremble kisa´ 1Vb hate; kisa´/kisida´ hater kandugo Adj (person) fat, tough kae' 1Vb not exist/be/have kísùg₂ Adj hateful, tabu kalı´ kalá kal- number kò 2Vb break (intransitive) kàlìga' Qf few kɔn'/kɔn'ɔkɔ by oneself kàma Qf every kòbìga (LF = SF) Qf hundred §8.5.1

kɔnbur kɔnba kònb- bone

kpì 2Vb die

kɔnbugə kɔnbıd kònb- animal hair; kpì'a kpì'es kpjà'- neighbour kpjà' LF kpì'a 2Vb whittle human body hair (cf zuob $\circ g_2$); -kım_{na} -kımmıb_a animal herder kpì'e 2Vb approach kodig 2Vb cut throat (monactional) kpi'ema' 1Vb be strong, hard kodύ banana (Twi) kpiıbiga kpiıbis kpiıb- orphan kòl 2Vb put around someone's neck kpiig 2Vb (fire) go out kòlìbìr kòlìbà bottle (Hausa kwalabaa) kpı'ılím 2Vb come to an end kolıga kolıs kòl- river; kpı'ım kpı'ımıs kpì'ım- corpse kpìis 2Vb quench kɔlıgı_n nó-dâug> crayfish kòlùg, kòn, kòlùg- sack, bag kpìkpin_{na} kpìkpinnıb_a kpìkpìn- merchant ko'm' kom- hunger kpi'on, Adj strong, hard kà'ɔg 2Vb break kpisinkpili kpisinkpila kpisinkpil- fist; kà'as 2Vb break several times also kpisùkpil kòns/kònsim 2Vb cough kpùkpàr kpùkpàrà palm tree fruit kpùkpàrìga kpùkpàrìs kpùkpàr- palm tree kot' 2Vb cut throat kòtàa LF kòtàanè Pt at all (Twi) kpùkpàun, kpùkpàmà kpùkpàun- arm, kótù lawcourt (English) wing kpà' 2Vb nail, fasten kò Pt not (irrealis negative) §9.3 kpan'a kpan'-nám rich person kυ 2Vb kill (Mooré $k\dot{\nu}$); (rain) threaten kpaada' kpaadíba kpaad- farmer (Mooré $k \dot{v}_l$): saa $k \dot{v}$ ya it looks like rain kpan'am' riches kua LF kua 2Vb hoe, farm kpaam' kpa- grease, ointment kυ'alíŋa kυ'alís/kυ'alímìs kυ'alíŋkpàndìr kpàndà kpànd-baboon kind of smock kùd 2Vb work iron kpàkur' kpàkuyá kpàkur- tortoise kpan_n kpana kpan- spear kòdìg 2Vb shrivel up, dry out, age kpår 2Vb lock kudım the old days; often for kulım kpar-kêong₂ kpar-kêεnd kpar-kén- rag kudug₂ Adj old kpán'una kpin'iní kpan'- guineafowl kudug₂ kut kùt- (Pl as Sg) iron, nail kpε Pn here kugur' kugá kug- stone kpξ^{n'} 2Vb enter kuka kugus kùg- chair kpεndιr´ kpεndá kpεnd- cheek kùka ghost kuka 'African mahogany kpεεⁿm -nàm_a kpὲεⁿm- elder kpεεⁿma′ 1Vb be older than kùkòm_n kùkòmà kùkòm- leper kpèn'εs 2Vb make enter kůkor´ kůkoyá kůko-/kůkor- voice kpslá Pn here kùkpàrìga see kpùkpàrìga kùkur´ kùkuyá kùkur- pig kpèlìm 2Vb remain kpèlim Pt still; immediately after §9.4.3 kul Gd kuliga 2Vb return home; $kp \epsilon n Pt = kp \epsilon l m$ take as husband kpè'ŋ 2Vb strengthen kulım Pt always §9.4.2 (Hausa kullum) kùlìŋa kùlìs/kùlìmìs kùlìŋ- door kpεoⁿη₂ seniority

kòm 2Vb weep

	ching
kùndù'ar kùndù'adà kùnduà'- lauko la	
barren woman là'uŋɔ là'amà fishing net	
kùndùŋa kùndùmìs/kùndùnà hyena lèb Gd lebiga 2Vb return (intra	nsitive)
kù'om kuà'- water; -nuud´ thirst; lèbìg 2Vb turn over; return	
-nwiiga´ current lèbìs 2Vb answer; return; divo	rce (wife)
kùos 2Vb sell lὲε Pt but §9.4.1	
kυυ Pt or §10.3.1 (Hausa <i>koo</i>) lὲm Pt again §9.4.3	
kuuga´/kuugɔ´ kuus´ ku- mouse lèm (-mm-) 2Vb sip, taste	
kòul 2Vb get drunk lɛr 2Vb get ugly	
kvvs´ 2Vb settle (lawsuit) lì/lı Pn 3I	
lì Ipf lìt _a Imp lìm _a Gd liig _a 2Vb	fall
-L- lı 2Vb block up	
la´ Pt the §8.7.3 lìa Pt where is? §10.3.4	
là' 2Vb laugh lìdìg 2Vb turn (shirt) W	
laa laas là- dish, bowl lìdìg 2Vb astonish, be amazed	
la'af ₂ ligidi lìg-/là'- cowrie; (Pl) money; lìeb 2Vb become	
là'-bielíf ₂ small coin lì'el 2Vb approach	
láafiyà/láafi health (Arabic al-ʿāfiyah) lí'em _n li'emá fruit of yellow plu	ım tree
là'am 2Vb associate; Pt together §9.4.3 líeŋa liemís lieŋ- axe	
là'as 2Vb gather together (transitive) lí'eŋa li'emís yellow plum tree,	
làbaar làbà- news (Arabic <i>al-akhbār</i>) Ximenia americana	
làbìya 1Vb crouch in hiding lìg 2Vb patch	
làbìl 2Vb make crouch lìgìl 2Vb cover; lìgìn 2Vb cover	oneself
làbìn 2Vb crouch lubir luba lùb- twin	
làbìs 2Vb walk stealthily lik _a ligis darkness	
labıs _a ´ 1Vb be wide lìlaalíŋa lìlaalís/lìlaalímìs lìlaalí	(ŋ- swallow
labısíg _a Adj wide; labısím width lín Pn 3I+n; lın 3I	
lak´ 2Vb open (eye, book) lìn Pn that; lìná Pn that	
lal _{la} ´ 1Vb be distant lɔ 2Vb tie	
lalıg´ 2Vb get/make far lɔb/lɔbɪg´ 2Vb throw stones at	
lallí far off lɔbɪdíga lɔbɪdís water-drawing	vessel
lallíŋa/lallúgɔ Adj distant lɔdɪga´ lɔdɪs´ lɔd- corner	
lam _n ´ lamá lam- (tooth) gum; lɔdɪg´ 2Vb untie	
-fɔ̂ɔgɔ Adj toothless lɔ̀kɔ lò'ad lụà'- (arrow) quiver	
làmpɔ´ làmpɔ- tax (French $l'impôt$) làmbɔ̀n'ɔgɔ làmbɔ̀n'ɔd làmbɔ̀n'- q	garden
lan _n lana làn- testicle (Hausa <i>làmbuu</i>)	
lànnìg _a lànnìs lànnìg- squirrel lɔŋ _a lɔmıs lòŋ- kind of frog	
la'ŋ´ 2Vb set alight lɔ'ŋ´ 2Vb go across river, road	
làŋgáuŋɔ làŋgáamˌ/làŋgaamá làŋgauŋ- lɔʻr lɔʻyà/lɔʻɔmˌma lɔʻr- car, lorry	
crab lòs 2Vb dip in liquid	

lù Ipf lùt _a Imp lùm _a 2Vb fall	mɛt´ mɛt- pus
lub Gd lubir´ 2Vb throw down	mi' 1Vb know
lug 2Vb swim	míif _o miiní okra seed
lugur flank, side	mì'ig 2Vb get sour
2.6	mì'isa 1Vb be sour; mì'isòg ₂ Adj sour
-M-	milig´ 2Vb get dirty
m/m _a Pn 1S	mìmiilím/mìmiilúg _o sweetness
mà mà- mother; Pl mà nám §8.4	mit _a 1Vb Imp-only: beware; do not let
mà' 2Vb lie, deceive	mo 2Vb strive, struggle
mà'àa LF mà'anè Pt only §11.2	mod 2Vb swell
màal 2Vb make, sacrifice; màal-maan _{na}	modug´ 2Vb be patient, endure
servant who conducts slayings for a	mòlìf _ɔ mòlì mòl- kob
tèŋ-daana; priest B1/2 (maanmaan B3)	mon 2Vb grind millet to make sa'abo
ma'al´ 2Vb make cool, wet	mɔŋ´ 2Vb refuse to lend
maan _n maana màan- sacrifice	mɔɔgɔ mɔɔd mò- grass; back-country,
má'an _n ma'aná ma'an- okra	"bush"; -pil _l thatch
ma'asa´ 1Vb be cool, wet	mכסl´ 2Vb proclaim;
ma'asíga cool, wet; ma'asíga´ coolly;	mɔɔl-mɔ̂ɔn _{na} proclaimer
ma'asím coolness	mɔra´ 1Vb have; mɔr na bring
madıg´ 2Vb overflow, abound	mua' 2Vb suckle
ma'e´ 2Vb cool down	muak _a moʻas muaʻ- maggot
màk 2Vb crumple	mù'ar muà'a muà'- lake, reservoir
mak´ 2Vb measure, judge	mù'as 2Vb give suck to
màli̯aka´ màli̯ak-náma/màli̯a'as´ màli̯a'-	mù'e 2Vb redden; ignite; intensify
angel (Arabic <i>mal'ak</i>)	mùi̯ mùi̯- rice
màlìfɔ màlì gun, rifle (Arabic <i>midfa</i> ʻ)	mùl 2Vb itch
màlìgìm Pt again §9.4.3	mùm 2Vb bury
malısa´ 1Vb be sweet, pleasant	
malısíg _a /malısíŋ _a Adj sweet, pleasant;	-N-
malısím sweetness	n Pt (linker) §10.4 §11.1
maluŋɔ malıma màlùŋ- custom; sacrifice	n Pt (past) §9.2 §10.3.3
mam Pn 1S	n Pn 2P2: see _{ya}
mán Pn 1S+n; man 1S	n/nı´ Pt (locative) §9.7.2.3
màŋgáບŋɔ = làŋgáບŋɔ	ǹ Pt (nominaliser) §10.5
màyk ₂ Adj crumpled	nà Pt (irrealis) §9.3
mè 2Vb build	na´ Pt hither §9.6
mè/mèn Pt also §11.2; mè-kàmà -soever	na 2Vb join
med 2Vb mash up	nà'- (cf Mampruli <i>na'ari</i> 'wilderness'):
mὲεŋa mὲεmìs mὲεŋ- turtle	-dàwan _n ´ pigeon;
mèlìgìm dew	-nɛsınnɛogɔ´ centipede W;
mεŋa´ Pn self; mεŋίr Adj genuine	-zòm _n locust

náa Pt (reply to blessings) §12	nida´ nidiba´ nin- person; -punan _{na} ´
nà'ab _a -nàm _a nà'- chief, king;	-punanníb _a -punán- disrespectful
-biig _a prince(ss); -yir´ court	person; -sâal _a human being
náaf _ɔ niigí na'- cow	nìe 2Vb appear, reveal; waken
nàam 2Vb happen	nif _o ´ niní nif-/nin- eye; nif-gbáɒ̯ŋə eyelid;
na'am nà'am- chieftaincy, kingdom	nif-sɔ́ba miser; nin-báa¹lìga pity;
naan next, afterwards §9.4.1	nin-dáa nin-dâas nin-dá- face;
naan Pt in that case §9.4.1 §10.3.3	nin-gɔʻtìŋa mirror; nin-gɔʻtìs spectacles;
naan´ 2Vb starting from do §10.4.2	nin-kúgùdìga nin-kúgùdìs eyebrow;
nà'ana´ Ideo easy	nin-múa concentration; ṁ niní mù'e nε
nà'as Gd nà'asì 2Vb honour	I'm intent; nin-tâ'm tears
nae´ 2Vb finish	níiŋa niimís/níis niiŋ- bird
nàm Pt still, yet §9.4.2	ni'm _n ´ nimá nim- meat
nàm _a (pluraliser) §5.1.1	nin-pôvd pus
namıs´ 2Vb persecute, suffer	nintaŋa´ nintaans´ nintáŋ- heat of the day
nan _{na} ´ 1Vb respect	niŋa niis nìŋ- body; -gbiŋɔ´ -gbiná -gbiŋ-
nannánna´ Pn now	body (Pl as Sg); -gɔ̀ɔr neck;
nànzu'us´ pepper (tones uncertain)	-taa -taas -tà- co-wife §8.4;
naŋa namıs nàŋ- scorpion	-tullím fever
nar _a ´ 1Vb need, deserve	nìŋ 2Vb do
narύη _ο Adj necessary	no 2Vb tread
nàyiig _a nàyìig-nàm _a /nàyiis thief	nob 2Vb get fat
(na'ayiig B); nàyiigım thievery	nɔbɪg´ 2Vb (child, plant) grow
nε Pt with §9.7.3; linking NPs: and	nóbìr nobá nob- leg, foot; -bíla toe;
nε´ Pt (focus) §11.1	-ín'a toenail; -púmpàṇŋɔ foot
nε' Pn this	nok´ 2Vb pick up, take up
nὲεl 2Vb reveal	ກວ່າງ Imp ກວ່າງໄm _a 1Vb love; ກວ່າງໄd _a lover
nὲεm for free	nɔŋɔ´ nɔŋ- poverty; -dâana pauper
nεεm´ 2Vb grind with millstone	nɔɔ Pt exactly, just §11.2
neer' millstone	nɔɔr´ nɔyá nɔ- mouth; command;
nὲεs 2Vb reveal; nὲεsὶm light	-dî'esa chief's spokesman ("linguist");
nὲi _{ya} 1Vb be awake	prophet B; -gbáu̩ŋɔ lip; -lɔ̂ɔr fasting;
nem-nêer nem-néyà grinder	-nâar promise; -pɔ̂ɔr oath
nεn _{na} ´ 1Vb envy; nin-nέn _{na} envier	nɔɔr´/nɔɔrím times §8.5.1
nε'εŋa Pn this	nu 2Vb drink
nèer Adj empty	nua´ nɔɔs´ nɔ- hen; -dâvgɔ cock;
ทธรเททธอg _ว ์ ทธรเททธธd´ ทธรเททธ์-	Nɔ-ʰyâ'aŋ nέ ò Biis Pleiades
centipede; envious person W	nulig´/nulis´ 2Vb make drink
ntá! Pt well done! §10.3.4	nû'ug _ɔ nû'us nu'- hand, arm; -bíla finger;
nι´ Pt (locative) §9.7.2.3	-dâvg $_{\rm D}$ thumb; -í $^{\rm n}$ 'a - $\hat{\epsilon}^{\rm n}$ 'es $\hat{\epsilon}^{\rm n}$ '-
nì 2Vb rain	fingernail; $-w\hat{\epsilon}^{n'}\epsilon d_a$ mediator

-O-	pìd 2Vb put (hat, shoes, rings) on (self
ò∕₀ Pn 3A	or another)
ònb Gd onbir 2Vb chew	pid 2Vb get bloated
ón Pn 3A+n; on 3A	pìdìg 2Vb take off (hat, shoes, rings)
òn Pn this/that	pie´ 2Vb wash (own body)
òŋa´ Pn this/that	pìeb 2Vb blow (flute etc)
	pìelìg _a Adj white (cf zì ⁿ 'a);
-P-	pìelìm whiteness
pà' Pt earlier today §9.2	pìes 2Vb fool someone
pà'al 2Vb teach, inform; pa'an _{na} teacher	pies´ 2Vb wash
pà'al 2Vb put on top	píıf _ə piiní pıın- genet
paalíg _a Adj new; paalím recently	piiga Qf ten
pàn'alìm 2Vb dedicate	pi ⁿ 'il´ 2Vb begin
paalú open space	piim´ pimá pim- arrow
pàaʰlúŋɔ pàaʰlímìs spiderweb	piini pìin- gift
pàam 2Vb receive gift	pìl 2Vb cover
pàas 2Vb add up to	pìlìg 2Vb uncover
pae´ 2Vb arrive; reach	pipiríg _a pipirís pipír- desert
pàk 2Vb surprise; take from top	pisí Qf twenty
pamm LF pamné Qf much, a lot	pitú pitíb _a pit- younger same-sex sibling
pàŋ _a pàaʰs pàŋ- power	(Sg pit _a ´ after CIFs)
pà ⁿ sìg 2Vb lack	po 2Vb swear; poor' "oath name" of clan
pà' tì Pt perhaps §9.4.1	pò ⁿ d 2Vb crouch down
pèbis 2Vb blow; pèbisim/pèbisòg _o wind	pɔ̀ɔda 1Vb be few, small
pὲ'εl 2Vb fill	pɔ̀ɔdlga Adj few, small; pɔ̀ɔdlm fewness
pὲ'εs 2Vb add up to, amount to	pɔɔgɔ´ pɔɔd´/pɔt´ pɔ- field, farm
pèlìg 2Vb whiten, go white	pɔ̀'ɔg 2Vb diminish, belittle
pèlìs 2Vb sharpen	pɔn'ɔl´ 2Vb make rot
pèn _n vagina	pɔ̀n'ɔllm 2Vb cripple, get crippled
ρε'ŋ´ 2Vb borrow; knock over W	pɔ̀n'ɔr pɔ̀ndà pɔ̀n'- cripple
pèog _o pèed pè- basket	pɔ̀ʰra 1Vb be near
pε'og _o ´ pε'εs´ pε'- sheep; -sá'a ewe lamb	pɔ̀ʰrùgɔ Adj near
pɛsɪg´ 2Vb sacrifice	pυ Pt not (indicative negative) §9.3
pịa LF pia 2Vb dig up	ρυ 2Vb divide
pian' 2Vb speak, praise; Gd piàynko	pua' pυ'ab _a puà'- woman, wife; -εlίη _a
pjan'ad pjan'- word, (Pl) language	fiancée; -ginníg _a /-gɔɔʰdır prostitute;
(tones sic)	-paal _a ´ bride; -sadır´ nulliparous young
pìbìg 2Vb uncover	woman; -san'am _{na} adulterer; -nyá'aŋa
pìbìl 2Vb cover up	-nyá'as old woman; -yùa daughter
pibin _n pibina pìbìn- cover, lid	puak _a Adj (human) female
	pò'alìm 2Vb harm

pù'alìm femininity	sáanním strangerhood
pù'alím pù'alímìs pù'alím- female organs	sáaŋ _a Adj strange
pùd 2Vb name	sabılíg _a Adj black (cf zì ⁿ 'a)
pvdlg´ 2Vb share out	sàbùa sàbùos sàbụà- lover, girlfriend
pun'e´ 2Vb rot	sadıgím Pt since, because §9.4.1 §10.5.1
pùgùdìb _a -nàm _a pùgùd- father's sister	sae̯ʰ/sae̯ʰ _{ya} saaʰba sàʰ- blacksmith
pùkɔ̀ɔʰr pùkɔ̀ʰyà pùkɔ̀ʰ- widow	sakárùg _ə sakárìd sakár- jackal (? French)
pukpaad _a ´ pukpaadíb _a pukpá- farmer	sàlìbìr bridle (Arabic salabah)
pùlìmà cogongrass	salıma sàlìm- gold
pùmpɔɔgɔ housefly	sam _n ´ samá sam- debt; -kpâ'as _a servant
pùn Pt previously, already §9.4.2	samán _n samánà samán- yard before zàk _a ;
pusiga´ pusis´ pus- tamarind	Samán-píer traditional New Year
pusir´ pusá tamarind fruit	saŋá sansá san- time §9.7.2.2
ρυ-sύk _a pυ-sύgùs half	sàŋ-gbàʊ̯ŋɔ cloud, sky
put' stomach contents	saŋgúnnìr saŋgúnnà saŋgún- millipede
puum´ puum- flowers	sapál _l Harmattan part of ύυn _n
ρυυg _a pù- belly; -pìel _l upright person;	sapι LF sapιι/sapιnέ Ideo straight
-pìelìm virtue; -tɛ̀ʰˈɛr -tɛ̀ʰdà -tɛ̀ʰ'- mind;	sarıgá prison (Arabic sāriqah 'fetter')
puugu_n inside; mor puug be pregnant	sàríyà law (Arabic <i>sharīʿah</i>);
pvvr´ stomach	sàríyà-kat _a judge
pù'us 2Vb greet, worship, thank; Gd	saug _o ´ saad´ sa- broom, brush
pù'usìm worship; Gd pù'usùg _o thanks	sàuk ₂ sà'ad dust mote
	sáບ໗ວ hospitality
-S-	sè 2Vb transplant
sà Pt yesterday §9.2	sè ⁿ 2Vb sew
sà Pt hence, ago §9.6	sεbι _{ya} ´ 1Vb squat
sa' 2Vb be in distress	sεo ⁿ g _o rainy season
sàa Pt tomorrow §9.2	sì 2Vb flay
saa saas sà- rain, sky; (subject of jank´)	si' 2Vb stain, dye
lightning; saa dίndεog rainbow;	si'a Pn Sg some, any
saa zúg up above; sky	sia sies si̯à- waist; -lɔɔdíŋa belt;
sa'ab _⊃ sà'- millet porridge, "TZ"	-nif ₂ ´ kidney
saafı lock, key (Twi)	sia'al´ 2Vb get to be enough
sàal _a sàalìb _a sàal- human; -biig _a human	sia'ar sia'a/sia'ada sia'- forest W;
sàalíŋa´ smoothly	wilderness
sàam _{ma} -nàm _a sàam- father §8.4	sjàk 2Vb agree; ò ρυ sjákì fù nɔɔrέ_
sà ⁿ 'am 2Vb spoil, break	he hasn't obeyed you
saam´ 2Vb mash, crumble	siak´ 2Vb suffice
san'an' in the presence/opinion of	sibiga´ sibí sib- kind of termite
saan _a ´ sáam _{ma} saan- guest, stranger	sıd _a sıdıb _a sìd- husband §8.4
saan _n saana sàan- charcoal	sìd Pt truly §9.4.1

sìdà sìd- truth	sɔɔʰgɔ witchcraft
sie´ 2Vb descend, be humbled	sɔɔʰr sɔʰya sɔ̀ʰ- liver; cane rat
sieba Pn some, any; si'el _a something,	sòs Gd sɔsɪga 2Vb ask; sòsa beggar
anything; si'em somehow, anyhow	sɔʰs Gd sɔ́ʰsìga 2Vb converse, talk with
sig 2Vb descend	sù 2Vb take bath
sıgır´ guardian spirit	sua' 2Vb hide; suaka´ hiding place
sigis´ 2Vb lower	sບ'e _{ya} ´ 1Vb own; sບ'ບlím property, realm
sigisír sigisá lodging-place	sue ⁿ ´ 2Vb anoint
sii ⁿ d´honey	sun'e´ 2Vb become better than
sii ⁿ f _o '/sii ⁿ g _a ' sii ⁿ s ' si ⁿ - bee	suʰfɔ´/suuʰr´ suʰyá suʰ- heart;
sug _a sus sì- vital energy, spirit B;	-búgùsìm peace; -kpî'oŋɔ boldness;
African birch	-málìsìm/-má'asìm -málìs- joy;
sìilìm 2Vb cite proverbs; sìilíŋa/sìilúŋɔ	m̀ suʰf máˈe ya Iˈm joyful; -pε̂εn _n anger;
sìilís/sìilímìs/sìilímà sìilíŋ- proverb	m̀ suʰf pέlìg nε I'm angry;
sı'ıs´ 2Vb touch	-sâʰ'ບ໗ _ວ sorrow
silinsîug _o silinsîis ghost	sugur´ Gd sugurú 2Vb show forbearance
silinsîu ⁿ g _o silinsîi ⁿ d spider	sù'm goodness; well
sìlòg _ə sìn _n /sìlìs sìl- hawk	sùm _{ma} 1Vb be good
sìm 2Vb sink in liquid	summır summa sùm- groundnut
sin _{na} ´ 1Vb be silent	sùn _n Gd sùnnìr/sùnnòg _ə 2Vb bow head;
sınsáa ⁿ kind of tiny ant	sun _{na} close observer W
sıŋa suns sìŋ- kind of very big pot	sùŋ 2Vb help
sເ'ŋ´ 2Vb begin	sùŋɔ Adj good; sù'ŋa´ well; very much
sisíbìg _a sisíbìs sisíb- neem	sú'oŋa su'omís su'oŋ- hare
sisíbìr sisíbà neem fruit	suor´ suoyá sua- road; permission
sìsì'em wind, storm	-dâug _o -dâad highway
sìsòm _n grasshopper	sù'os _a yesterday
sìsòugu_n/sòugu_n between	sù'os 2Vb trick
sí'uŋɔ si'imís si'uŋ- kind of big dish	sùr _a 1Vb have head bowed
so' Pn some(one), any(one)	sບບg´ 2Vb (leaves) wither W
sɔʰ 2Vb rub	sù'ug _a /sù'ug _o sù'us sù'- knife
sɔba Pn (dummy head)	
sɔb 2Vb darken; write	-T-
sɔbɪg´ 2Vb blacken	taa taas fellow- §6.1.1
sɔbɪr´ sɔb- piece of writing	taab/taaba Pn each other
sɔe̯ʰ/sɔe̯ʰ _{ya} sɔɔʰba sòʰ- witch	ta'adır ta'ada tà'ad- sandal
sɔn'eya´ 1Vb be better than; sɔn'ɔda´	tàal _l tàalà tàal- fault, sin
sɔn'ɔba´ sɔn'ɔd- surpasser	tá'am _n ta'amá shea nut
sógjàa soldier (English)	tá'aŋa ta'amís ta'aŋ- shea tree
sɔluŋɔ´ sɔlımá story	ta'as´ 2Vb help to walk
sɔnnır sɔnna sòn- yard-dividing wall	tàb 2Vb get stuck to; tàbìya 1Vb be stuck

216

tàbìg 2Vb get unstuck from	tìe ⁿ 2Vb remember; W inform; stretch
tàbìl 2Vb stick to (transitive)	tì'eb 2Vb get ready; (Arabic <i>tibb</i>
tàdìg 2Vb weaken	'medicine') heal; ti'eb _a healer
tadım -nàm _a tàdìm- weakling	tìeŋa tìemìs tìeŋ- beard; -gvvr chin
tàdìmís weakness	tıg 2Vb have in excess; Gd tıgır´ glut
táe plaster (a wall)	ti'iya´ 1Vb (thing) lean
tàm (-mm-) 2Vb forget	tìuga tìus tì- tree; -daugo -daad -dà- bow
tàmpìi ⁿ g _a rock	ti'il´ 2Vb lean (thing)
tàmpuur tàmpù- ashpit, rubbish tip	tìım tì- medicine; -kvvdím poison;
tan _n tana tàn- earth; -mɛɛda builder	-sabılím kind of traditional remedy
ta ⁿ p _o war; tà ⁿ p-sob _a warrior	tì'in 2Vb (thing) start leaning
tara´1Vb have	tik´ 2Vb press; tik nû'ug sign
tàns Gd tànsòg ₂ 2Vb shout; (sun) shine	(e.g. a document)
tàsìntàl _l /tàtàl _l palm of hand	tilás necessity (Hausa tiilàs)
tavn´ tanpa´ tavn- (Pl head tanp-)	tìlìg 2Vb survive, be saved
opposite-sex sibling §8.4	tınám _a Pn 1P
tè 2Vb pull	tıntɔʰríga tıntɔʰrís tıntɔ́ʰr- mole
tὲb Gd tεbιg _a 2Vb carry in both hands	tìp _a -nàm _a tìp- healer
tènb Gd tènbùg _o 2Vb struggle	tırâan _a -nàm _a tırâan- peer;
tεbιg´ 2Vb get heavy	tırâannım companionship
tεbιs _a ´ 1Vb be heavy	tírìgà Ideo for giŋa short
tεbιsίg _a Adj heavy; tεbιsίm weight	tìs/tì_ Ipf tìsìda/tìta 2Vb give; tìsa giver
tέεbὺl tέεbὺl-nàm _a table (English)	tıta'al _l proud person; tıta'alım pride
tèɛg/tèk 2Vb pull; tèɛg X tòbìr punish X	tıta'ar Adj big; tıta'am multitude
tè'ɛga tè'ɛs tè'- baobab	tò Pt OK §10.3.4 (Hausa <i>tòo</i>)
tèn'es 2Vb remind	tòn 2Vb shoot
ten'es´ 2Vb think; Gd ten'esá thought	tòd 2Vb give to the poor, share
teŋa tεεʰs tèŋ- land; -biiga native;	tɔe̯ya´ 1Vb be bitter, difficult
-daan _a earth-priest; -dv'adıg _a	tók-làe torch (English "torchlight")
native land; -gbaັນຸ໗ _ວ land;	tólìb Ideo lolloping
-kpεŋ _a -kpεmιs -kpὲŋ- village;	tớlìlìlì Ideo for wɔkɔ´ tall
-pvvg _o ´-pvvd´-pv- village; -svk _a centre;	təəgə Adj bitter, difficult
teŋı_n/teŋír down; under	tɔɔm´ 2Vb depart, disappear
tèog _o tèed nest	tòn'os 2Vb hunt
tὲ'og _ɔ tὲ'εd baobab fruit	tò'ɔtɔ´ straight away
tènra 1Vb remember	tuà LF tùa 2Vb pound in a mortar;
tì/tı Pn 1P	tuà-bila pestle
tì Pt next, then §9.4.3	tuà' 2Vb plead in court
tjà'al 2Vb come next	tua'e _{ya} ' 1Vb be near
tjàk 2Vb change	tù'al 2Vb condemn in court
tì'e 2Vb rely on	tò'as 2Vb talk; tò'as-tò'as _a talker

νυe_{ya}′ 1Vb live

Vocabulary

tùbìr tùbà tùb- ear; -kpìr half of jaw vugulím soot tùkpudug₂ tumult עט 2Vb swallow tuⁿ'e_{va}´ 1Vb be able vùlìnvùuⁿl_l mason wasp tul_{la}' 1Vb be hot vum' vum- life tulig' 2Vb heat up vúona vuomís red kapok, tùlìg 2Vb invert Bombax buonopozense tòm 2Vb work; Gd tuum_n tuuma tùumvúor vuáa vuo- fruit of red kapok deed, (Pl) work; tùm-tumna worker vur' Adj alive tòm Gd tìtumıs 2Vb send νυ'υg´ 2Vb come/make alive tuodir tuoda tùod- mortar vu'us´ Gd vu'usím 2Vb breathe, rest tùon_n in front; west; tùon-gat_a leader tusir' thousand -Wwa' 2Vb dance tùtul upside-down thing nwà Pt this §8.7.3; wàna′ this here tuulíga´ hotly; tuulúg_o Adj hot tv'vs´ 2Vb meet "wa' 2Vb smash up waad´ cold weather -**U**Jwáaf, wiigí wa'- snake ùdùg, ùt ùd- piece of chaff waal' 2Vb sow wa'alím length ugus' 2Vb bring up child ùk 2Vb lift up; vomit wa'ama' 1Vb be long, tall uk 2Vb bloat "waana "waamis "waan- monkey ùm 2Vb close eyes wàbìga Adj lame ύυn_n dry season wàbìlìm 2Vb make, go lame ບບs´ 2Vb (person) get warm wabug₂ wabid wab- elephant wadá wad- (English "order") law -V-"wadiga´ "wadis´ "wad- moon, month; vabι_{va}′ 1Vb lie prone -bíla star; "Wad-dár Venus vabıl' 2Vb make lie prone wà'e_{ya} 1Vb travel vàbìn 2Vb lie prone "wà'e 2Vb cut wood "wa'e' 2Vb strike, break vàe 2Vb gather up vaυⁿg₂ vaaⁿd vaⁿ- leaf walıga walıs/walí wàl- oribi νε'/νε'εg´ 2Vb lead, pull walım mist, heat, steam vènlla 1Vb be beautiful; vènllìga/vènllíga "wam_n "wama "wàm- calabash; Adj beautiful; vènllim beauty; also vèn_{na} also "wan_n etc viig 2Vb postpone, reschedule wànim 2Vb waste away vik' 2Vb uproot wàsìnwàl_l kind of gall on trees viug₂ viid vi- owl (local English "mistletoe") $vo^ndvg_0^- vo^nt^-$ hole in the ground, lair wàyŋɔ Adj wasted, thin vu Gd vuug₂ 2Vb make noise; "wέ' 2Vb beat; "wέ' X nû'ug plead with X; vuud´ noise "wè' "yɔ'ɔq boast

weel' 2Vb be left unsold

wel 2Vb bear fruit; wel _l welá wel- fruit	yà'ab 2Vb mould clay; ya'ad yà'- clay
welá/walá Pn how? nìn welá n/kà §10.4.2	yà'al 2Vb hang up; make perch
"wen _{na} ' 1Vb be like §9.7.3	"ya'al´ 2Vb leave behind
"wennır Adj resembling (TP A, W)	yà'an 2Vb perch
wèog ₂ deep bush	nyaan Pt next §9.4.1
weogy weed cheap thing widely sold W	yáaŋa yáas yaaŋ- grandchild, descendant
"wi 2Vb spin (thread)	"yá'aŋa Adj (animal) female
wiak' 2Vb hatch	"yá'aŋa behind; east; "ya'an-dɔ́l¡a/dɔ́l¡
widig 2Vb scatter	"ya'an-dɔ́llà/dɔ́llìba "ya'an-dɔ́l- disciple
wief ₂ widi wid- horse	yaar´ 2Vb scatter
wìida/wèɛda wìiba wìid- hunter	nya'ar nya'a nyà'- root
wiiga´ whistle	yàarìm yàar- salt
nwiiga´nwiis´nwi- rope	yà'as/yà'as _a again
nwiig´ 2Vb make rope	ya'as´ 2Vb open repeatedly
wilm disease ("worse than ban'as" W)	yàda/yàdda trust (Hausa <i>yàrdaa</i>)
wik Ipf wiida 2Vb fetch water	yadıg´ 2Vb scatter; yat _a ´ participant
wil _l wilà wil- branch	in a housebuilding ritual
wເປເຣບິກ _ວ ພເປເຫເຣ ພເປເຣບິກ- kind of snail	ya'e' 2Vb widen, (mouth) open
wim Ideo for zìn'a red	nyae LF nyaené Ideo bright, clear
wın _n ´ wıná wın- spiritual essence; God;	yàk 2Vb unhang, unhook
-tôogo misfortune	yàlìg 2Vb widen
wìnnìg _a wìn- sun; -liir sunset;	yàlìm _a 1Vb be wide
-kòor afternoon	yalım´ yalım-nám _a worthless person
wìug ₂ Adj red (synonymous with zì ⁿ 'a)	yalısúŋə yalımís yalısúŋ- quail
wɔkɔ´ Adj long, tall	yàlùŋɔ Adj wide
wòm Gd wum _{mɔ} /wòmmògɔ 2Vb hear;	nyalún₀ Adj wonderful
smell; understand	yam _n yama yàm- hay
พบรล/พบบ Qf all	yam´/ya'am´ W yam- bile; sense;
wυυ Pt like §9.7.3	ṁ yam kpε̂n'ε_lί I've set my heart on it
wບ'ບg´ 2Vb get wet	yàmmùg _a /yàmmùg _a yàmmìs yàm- slave
ש'טט' 2Vb make wet	nyàn _n shame
	yanám _a Pn 2P
-Y-	"yan´ 2Vb overcome; succeed in
yà/ya Pn 2P	yàυg ₂ yàad grave, tomb
_{va} Pn 2P2 (2P sibject after Imp)	ye Pt that §10.1
ya Pt (NSb-Pf) §9.5	yè 2Vb dress oneself
yà' Pt if, when §10.3.3;	"yε Ipf "yεta´ Imp "yὲma 2Vb see, find;
yà' naan if only; yà' pùn even if	ηyε láafìyà get well
yáa Pn whither? yáa ní where?	"yεε/"yεε tí Pt habitually §9.4.2
ya'a opportunity, chance, free time	yὲεg 2Vb undress oneself
yáab _a -nám _a yaa- grandparent §8.4	yèsl 2Vb dress someone

"yɛ'ɛr' "yɛdá "yɛ'- next-younger sibling yɛɛs' 2Vb betray secret "yɛ̀ɛsa 1Vb be bold; "yɛ̀ɛsim boldness "yɛ̀ɛsína Adj bold; "yɛ̀ɛsína' boldly yɛlı' yɛlá yɛl- affair; (Pl) about; -mɛ́nir truth; -pákir disaster; -súmn blessing yɛ̀l Ipf yɛ̀ta Gd yɛ̀lògɔ 2Vb say, tell yɛním 2Vb undulate yɛ̀ogɔ yɛ̀ɛd bird's crop; weed, straggler, person displaced from family yɛ́on Qf one (in counting) yi Ipf yita' Imp yìma 2Vb go/come out yìdìg 2Vb go astray yidig' 2Vb untie yìer jaw yiigá Qf firstly; yiig-sɔ́ba first person yiis' Gd yiisíbɔ 2Vb make go/come out yım Ideo exactly; at once yımmír Adj unique, sole yımmú Qf straight away, at once "yinn' "yiná "yin- tooth	"yɔɔr "yɔya "yɔ- nose; -vur´ -vuyá -vur- life "yɔ'ɔs´ smoke yuà LF yùa 2Vb bleed; fornicate W; flow (of tears) yu'adır yu'ada rafter yùbìga yùbìs yùb- kind of small bottle-like pot "yu'e´ 2Vb set alight yugudır yuguda yùgùd- hedgehog yugúmn yugumá yugum- camel yùlìg 2Vb swing (transitive) yu'or yuoda yù'or- penis yùug 2Vb get to be a long time, delay yùul 2Vb swing (intransitive) yu'um´ 2Vb sing; yuum-yû'umna singer yú'umn yu'umá yu'um-/yuum- song yùumn yòmà yòum- year yu'un Pt then, next §9.4.1 yú'uŋɔ yu'umís yu'un- night yu'ur´ yudá yu'- name yuur yuya yò- water pot
yınnı Qf one yina outside yir (ya 'yi- (Pl hoad ya) houso:	"yuur´ "yuyá "yu- yam yט'טs _a ´ now again, from now on
yir´ya´yi- (Pl head ya-) house; -dâan _a /sɔ́b _a -sɔ́b-nàm _a householder; -dím _a members of a household; yín _n at home, Pl yáa_n "yirífɔ "yirí egusi seed yis 2Vb make go/come out yuynɔ´ Adj single (of pair) yɔ̀ 2Vb close yɔ 2Vb pay; Gd yɔɔd´ pay yɔlıs´ 2Vb untie yɔlısím freedom yɔlugɔ´ yɔnn´ yɔl- sack; £100, 200 cedis "yɔɔd intestines yɔ̀'ɔg 2Vb open "yɔ'ɔgɔ´ chest "yɔɔgɔ sympathy: ò zɔ̄to_ "yɔɔg she sympathises with him yɔ̀or yɔ̇yà yɔ̀- soldier ant	-Z- za´ za- millet zan'a Qf every záal _I Adj empty; zaalím emptily zàam zà- evening; -sìsɔbır´ evening zàn'an _n zàn'anà hammer, bludgeon zàn'as 2Vb refuse zàansìm 2Vb dream; Gd zàansún zàansímà zàansún- dream zaansím zaans- soup zàb Gd zàbìr 2Vb fight; hurt; zàb-zàba warrior; gban-zába leather-worker zàbìl 2Vb cause to fight zànbìl 2Vb tattoo zanbın _n zanbına zànbìn- tattoo; sign B zàka zà'as zà'- compound; -nɔɔr´ gate zàkìm 2Vb itch

zanıla 1Vb have in the hand zànılı umbilicus zàlina zàlimis zàlin- electric eel zàm (-mm-) 2Vb cheat; zàm-zamna cheater zàmis 2Vb learn, teach zàn 2Vb pick up zàngùomn zàngùomà zàngùom- wall zànkò'ar zànkuà'a zànkuà'- hyena zɛmma 1Vb be equal zɛms 2Vb make equal zɛms 2Vb make equal zɛms 2Vb carry on head; zi-riog see zìn'a zi Gd ziid 2Vb carry on head; zi-zîida carrier on head zu' 1Vb not know zìn'a Adj red: zìn'a and wìug cover all reddish shades, sabulíga all darker, and pìeliga all lighter; other colour terms are of the type wou támpour nɛ 'grey', literally 'like ash'; they may still be standardised fixed expressions zì'eya 1Vb stand zì'el 2Vb make stand; zì'el nɔɔr promise zì'en 2Vb stand; ò zì'en nɛ she's pregnant ziena ziemis threshing-floor zì'es 2Vb wobble (? tone and meaning; of Mooré zècse 'jump up and down') zìn'iya 1Vb sit; zin'iga zin'is zìn'- place zìn'il 2Vb make sit zum zı- blood zìn'in 2Vb sit down zína zimí zim- fish; -gbân'ada fisher zu'usígɛ alternative LF of zu' zillima zilima zilim- tongue zulınzî'og Adj unknown zím Ideo for sabulíga black	zi'uŋɔ (tone and meaning uncertain; cf Mampruli zeeŋŋu 'spite') zò Ipf zòta Imp zòma 2Vb run; fear; experience emotion; Gd zua/zɔɔgɔ Pl zɔɔs run; Gd zòtùm fear zɔl 2Vb castrate zɔlums foolishness zɔlugɔ zɔnn zɔl- fool zɔm zɔm- flour zɔmn zɔma zòm- refugee, fugitive zɔruga small child W zɔrugɔ zɔrá piece zu 2Vb steal zuà LF zùa -nàma zuà- friend zù'e 2Vb get higher, more zùe 2Vb perch, get on top zugɔ zut zu-/zug- head; onto, due to; zug-dâana master; zug-kugur zug-kuga zug-kúg- pillow; zug-sɔba master B1/2 (B3 Lord); zu-pɛɛlugɔ Adj bald; zu-píbiga hat; zugun on zùg 2Vb work bellows zùlig 2Vb deepen zùlima 1Vb be deep zùluŋɔ Adj deep; zùluŋɔ depth zùnn civet zònzòŋa/zònzònɔ zònzòns zònzòn- blind person zòŋɔ Adj foreign zuobúgɔ zuobíd zuob- (human head) hair zùod friendship zùol 2Vb make to perch zu'om zu'oms zu'om- blind person zu'om 2Vb start perching zuor zuoya zuà- hill zùos 2Vh befriend
zı'ısígɛ alternative LF of zı' zìlìmn zìlìmà zìlìm- tongue	zu'om´ 2Vb go/make blind zùon 2Vb start perching
zím Ideo for sabılíg _a black ziná today	zùos 2Vb befriend zuríf _o zurí zur- dawadawa seed
zınzayŋɔ´ zınzaná zınzáyŋ- bat zırí untruth	zú'v ⁿ f ₂ zv'vní dawadawa seed zùu ⁿ g ₂ zùu ⁿ s/zùu ⁿ d zù ⁿ - vulture zvvr zvya zù- tail

References and Bibliography

- Abubakari, Hasiyatu. 2011. Object-sharing as symmetric sharing: Predicate Clefting and Serial Verb Constructions in Kusaal. MA Thesis, University of Tromsø.
- Abubakari, Hasiyatu. 2017. Ideophones in Kusaal. *Journal of West African Languages* Vol 44.1.
 - (This paper, and many others on Kusaal, can be found through the author's website at https://ias.ug.edu.gh/content/dr-hasiyatu-abubakari)
- Abubakari, Hasiyatu, Lawrence Sandow and Samuel Akugri Asitanga. 2024.

 A structural analysis of personal names in Kusaal. Elsevier Language Sciences. https://doi.org/10.1016/j.langsci.2024.101613
- Adusah-Poku, Frank and Kenji Takeuchi. 2019. Energy poverty in Ghana: Any progress so far? *Renewable and Sustainable Energy Reviews*,112:853-864.
- Aikhenvald, Alexandra. 2018. Serial Verbs. Oxford University Press.
- Ali, Mark, Scott Grimm & Adams Bodomo. 2021. *A dictionary and grammatical sketch of Dagaare*. Berlin: Language Science Press.
- Arnott, David W. 1970. The Nominal and Verbal Systems of Fula. Clarendon Press.
- Berthelette, John. 2001. Sociolinguistic Survey Report for the Kusaal Language. SIL.
- Christaller, Johann Gottlieb. 1881. *A Dictionary of the Asante and Fante Language, called Tshii*. Evangelical Missionary Society, Basel.
- Churchward, C Maxwell. 1953. Tongan Grammar. Oxford University Press.
- Delplangue, Alain. 2012. Le dagara-lobr. Peeters.
- É. Kiss, Katalin. 2006. Focussing as predication. In Molnár, Valéria & Susanne Winkler (eds.). 2006. The architecture of focus. Berlin: Mouton de Gruyter.
- Eddyshaw, David. 2024. Proto-Oti-Volta. https://doi.org/10.5281/zenodo.7979828
- Evans, Nicholas. 2007. Insubordination and its uses. In *Finiteness: Theoretical and Empirical Foundations*. Irina Nikolaeva (ed.) Oxford University Press.
- Finnegan, Ruth. 2012. Oral Literature in Africa. Open Book Publishers, Cambridge.
- Foley, William A and Robert Van Valin. 1984. Functional syntax and universal grammar. Cambridge University Press.
- Goddard, Ives. 2023. A Grammar of Meskwaki. Mundart Press.
- Green, Melanie. 2007. *Focus in Hausa*. The Philological Society, Blackwells Publishing.
- Güldemann, Tom. 2003, Present progressive vis-a-vis predication focus in Bantu. Studies in Language 27(2). John Benjamins.
- Güldemann, Tom. 2018. Historical linguistics and genealogical language classification in Africa. In *The Languages and Linguistics of Africa*, ed. Tom Güldemann. De Gruyter Mouton, 2018.
- Haaf, Ernst. 1967. *Die Kusase*. Giessener Beiträge zur Entwicklungsforschung, Reihe II, Band 1. Gustav Fischer.

- Hamel, Mary and Charles Merrill. 1991. The Analogues of the 'Pardoner's Tale' and a New African Version. *The Chaucer Review*, vol. 26, no. 2.
- Heath, Jeffrey. 2005. Tondi Songway Kiini. CSLI Publications.
- Heath, Jeffrey. 2015. *Dictionary of Humburi Senni*. Language Description Heritage Library, Max Planck Institute.
 - https://deepblue.lib.umich.edu/handle/2027.42/117646
- Huddleston, Rodney and Geoffrey Pullum. 2002. *The Cambridge Grammar of the English Language* (CGEL.) Cambridge University Press.
- Hyman, Larry M. and John R. Watters. 1984. Auxiliary focus. *Studies in African Linguistics* 15,3: 233-273.
- Iliasu, A A, 1971. The Origins of the Mossi-Dagomba States. *Institute of African Studies: Research Review* Vol. 07 No. 2.
- Jaggar, Philip J. 2001. Hausa. John Benjamins.
- Ladusaw, William A. 1985. The Category Structure of Kusaal. *Proceedings of the Eleventh Annual Meeting of the Berkeley Linguistics Society* 196-206.
- Lund, Christian. 2003. 'Bawku is still volatile': ethno-political conflict and state recognition in Northern Ghana. *Journal of Modern African Studies*, 41, 4.
- Marlo, Michael R and David Odden. 2019. Tone. In *The Bantu Languages*. Second Edition, Mark Van de Velde, Koen Bostoen, Derek Nurse, Gérard Philippson (eds.) Routledge.
- Maslova, Elena. 2003. A Grammar of Kolyma Yukaghir. Mouton de Gruyter.
- Morris, Pamela. 2016. Tone in the pronominal system in Bissa Barka. *Mandenkan* 56, pp77-94.
- Musah, Anthony Agoswin. 2018. A Grammar of Kusaal. Peter Lang.
- Naden, Tony. Dictionaries of Kusaal and Mampruli: lostmarbles31.wixsite.com/aardvarks-lexico
- Newman, Paul and Roxana Ma Newman. 1977. *Modern Hausa-English Dictionary.* Oxford University Press.
- Niggli, Urs. 2012. La phonologie du kusaal. SIL.
- Niggli, Urs. 2013. Ninkare Frafra Dictionary. SIL.
- Niggli, Urs. 2016. Dictionnaire mooré. SIL.
- Niggli, Urs. 2017. Burkina Faso Kusaal Dictionary. SIL.
- Plungian, Vladimir A and Johan van der Auwera. 2006. Towards a typology of discontinuous past marking. *Sprachtypol. Univ. Forsch.* Berlin 59:4, 317–349.
- Prost, André. 1979. Le Kusaal. Université de Dakar.
- Rattray, Robert S. 1932. *The Tribes of the Ashanti Hinterland*, Chapters 39-41. Clarendon Press, Oxford.
- Robert, Stéphane. 2010. Clause chaining and conjugations in Wolof: a typology of parataxis and its semantics. In *Clause hierarchy and clause linking: syntax and pragmatics*, ed. Isabelle Bril. John Benjamins 2010.

- Ross, Daniel. 2021. *Pseudocoordination, Serial Verb Constructions and Multi-verb Predicates: the Relationship between Form and Structure*. PhD thesis, University of Illinois Urbana-Champaign.
- Shibatani, Masayoshi and Taro Kageyama, 1988. Word Formation in a Modular Theory of Grammar: Postsyntactic Compounds in Japanese.

 Language, Vol. 64, No. 3.
- Smits, Heleen. 2017. A Grammar of Lumun: a Kordofanian Language of Sudan. LOT (Netherlands Graduate School of Linguistics.)
- Spencer, Andrew and Ana Luís. 2012. *Clitics: An Introduction*. Cambridge University Press.
- Spratt, David. 1972. Kusal Syntax. Institute of African Studies, University of Ghana.
- Spratt, David. An Introduction to Learning Kusaal.
 - Unpublished MS at GILLBT, Tamale.
- Spratt, David. A Short Kusaal-English Dictionary.
 Unpublished MS at GILLBT, Tamale.
- Turl, John. Ghana Place Names: sites.google.com/site/ghanaplacenames
- Van Valin. Robert. 2021. Cosubordination. In *Challenges at the Syntax-Semantics-Pragmatics Interface*, ed. Robert D. Van Valin, Jr. Cambridge Scholars Publishing, 2021.
- Zúñiga, Fernando and Seppo Kittilä. 2019. *Grammatical Voice*. Cambridge University Press.