

Class Agreement

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Noun class governs the pattern of agreement between subjects and verbs, between nouns and their modifiers; it also figures into the form of independent and prefixing pronouns, and the form of citation modifiers whose referent is contextually determined. This chapter presents the morphology of noun-class agreement, with remaining syntactic issues being covered in appropriate chapters. Numerous segmental phonological processes affect the realization of stems and agreement morphemes, which are discussed in X, and tonal processes are discussed in Y.

1. NP-internal agreement

Most modifiers, excluding a handful of invariant words, agree in formal class with the head noun, as seen in the following examples. Note that the adjective *-ráhɪ* has a prefix that is similar in shape to the previous head noun (bearing in mind phonological modifications discussed in Q which account for the forms *lláhɪ* and *mdáhɪ*)

m-kóóngó m-ráhɪ	‘good boss’	1
ává-kóóngó vá-ráhɪ	‘good bosses’	2
irí-ká ¹ l-láhɪ	‘good charcoal’	5
kí-gúútí kí-ráhɪ	‘good field’	7
é ¹ n-zógú ín-dáhɪ	‘good elephant’	9

Even though *rigóto* ‘village elder’ refers to a human, it is formally in cl. 5-6 and therefore it induces cl. 5-6 agreement.

irígóto llara	‘1 village elder’
magó ¹ tó m-ráhɪ	‘good village elders’
rigútú riguru	‘hard-working elder’

rigútu rino

‘this elder’

When the lexical class of a cl. 1 noun is overridden by diminutive or augmentative formation, agreement is likewise in the derived class (12, 13, 20) and not the underlying lexical class.

kákóóngó kárahi	‘good boss _{-dim} ’
tókóóngó tórahi	‘good bosses _{-dim} ’
gwáá ¹ ná górahi	‘good child _{-aug} ’

Nouns in cl. 1a (e.g. *baabá* ‘father’) by definition do not have a noun class prefix, so their pattern of agreement constitutes the primary reason for assigning them to cl. 1a. A noun with no class prefix is combinatorially compatible with both singular and plural agreements on its modifiers, and the pattern of agreement may be the only indication whether the noun is singular or plural. Accordingly, the following pairings of unprefixes nouns with both singular and plural agreements are possible.

baabá ¹ mórahi	‘good father’
baabá ¹ várahi	‘good fathers’
chíí ¹ fú wá ¹ ángé	‘my chief’
chíí ¹ fú vá ¹ ángé	‘my chiefs’
ofisá molla	‘1 officer’
ofisá ¹ vavíri	‘2 officers’

When a formally 1a noun is semantically plural as indicated by the pattern of agreement, it will be notated as “1ap” meaning “class 1a, in the plural”.

As discussed in X, a cl. 1 possessive may be contracted with the head noun, as long as the head is not marked in cl. 2 or 2a. In the first example below, the head noun is unmarked and the agreeing adjective is in cl. 1, hence the NP is interpreted in the singular. In the second and third examples, the NP is interpreted in the plural as indicated by the form of the agreement and the semantics of the numeral “2”, but because the head noun is not marked for singular or plural, contraction of the possessive is allowed.

góó ¹ kéétú ¹ mtáambi	‘our tall grandmother’
góókée ¹ tú vavíri	‘our two grandmothers’
góókée ¹ nyú vátáambi	‘2pl tall grandmothers’
góó ¹ kéétú ¹ vavíri	‘our two grandmothers’
góó ¹ kéenyú ¹ vátáambi	‘your tall grandmothers’

If a noun is marked in cl. 2a, that is, it has a plural marker (cl. 2 or 2a), contraction is impossible, since an overt plural head requires agreement, and only cl. 1 possessive /wa/ can be reduced.¹

¹ The fact that contraction coexists with cl. 2 morphology in adjectives shows that contraction is not phonological deletion of expected /w/, rather, it is a suspension of the agreement requirement on modifiers. A phonological contraction analysis would derive [góókéétú¹ mtáambi] from /góókó wéétú¹ mtáambi/: but that would also require deriving [góókéétú¹ vavíri] from the impossible source */góókó wéétú¹ vavíri/ with

*váá ¹ gúókéé ¹ tú	‘our grandmothers’
*váá ¹ gúókéé ¹ tú vávírí	‘our two grandmothers’

Some nouns (loanwords) which refer to humans optionally omit the cl. 1 prefix /mɔ/.² Nevertheless, their cl. 1 status is discernible from the pattern of agreement.

mkó ¹ ndáá ¹ ktá m ¹ táámbrí	‘tall conductor’
kondáá ¹ ktá m ¹ táámbrí	‘tall conductor’
vakó ¹ ndáákta varitu	‘heavy conductor’
m ¹ skáári	‘askari’
m ¹ skáári mguro	‘hard-working askari’
vaskáári avagoro	‘hard-working askaris’
*skaari; *skaari mguro	
askáári mguro	‘hard-working askari’

Unprefixed nouns with certain theological implications may agree in cl. 1 or 9, depending on how the noun is used. The word *róóho* refers to spirit, either pagan or Christian. In the plural, or with cl. 9 agreement, the referent is pagan, e.g. *róó¹hó mbí* ‘evil spirit’, *ziróó¹hó zínyíngí* ‘many spirits’, *róóho ndara* ‘1 spirit (pagan)’, versus *róó¹hó móráhi* ‘the holy spirit’, *róóho molla* ‘1 spirit-personal/Christian’; **varóó¹hó váví*; *éngérúsi ndara*/**molla* ‘1 angel’.

The locative classes 16-18 present a syntactic and semantic complication, in that when a noun bears a locative class prefix, following modifiers may agree with the lexical class of the noun, or with the preceding locative. In such examples, there may be subtle differences in semantics, suggesting that the modifier optionally attaches at the lower N level or the higher P level.

mɔnyóó ¹ mbá énéne	‘in a big house’	(the house is big)
mɔnyóó ¹ mbá mónéne	‘in a house with lots of space in it’	(“in” is big)
haméé ¹ sá énéne	‘at a big table’	
haméé ¹ sá hánéne	‘at a big space by the table’	
hámígérá jí ¹ vírí	‘at 2 rivers’	(there are two rivers)
hámgérá há ¹ vírí	‘at the 2 sides of the river’	(there are two locations of the river being identified)

Especially with possessive pronouns and demonstratives, the modifier form varies freely between locative agreement and N agreement.

koméé ¹ sá kóra	‘on that table’
haméé ¹ sá yáha	‘at this table’

incorrect agreement on the pronoun. Instead, I analyze contraction as morphological merger of the noun and possessive into a single word, so that no agreement is required between the nominal stem and the cliticized possessive.

² Alternatively, since these derive from Swahili nouns not in class 1, these words optionally acquire a cl. 1 prefix when taken into Logoori.

haméé ¹ sá há ¹ ángé	‘at my table’
mórójò mura	‘in that clay bowl’
mónyóó ¹ mbá yá ¹ ángé	‘in my house’
mónyóó ¹ mbá mwá ¹ ángé	‘in my house’

1.1. Adjectives

Adjectives are modifiers which take the same class prefixes as are found on nouns. As discussed in ch. X, a number of phonological changes affect the realization of agreement morphemes or the shape of adjective stems, summarized here

- 1: Regressive Vowel Harmony between stem and class prefix, which lowers /i u/ to [e o] before [e,o].
- 2: NC effects (hardening and voicing of stem-initial consonants; Ganda Law; deletion of nasal).
- 3: rV- reduction (ror..., rir... → [ll...])
- 4: Vowel-initial stems and V-V resolution
- 5: Minimality-related vowel lengthening (ri-chi → rii-chi)
- 6: Phrasal hiatus resolution
- 7: Tonal alternations
- 8: Cl. 4 palatalization ???what?
- 9: Ky-palatalization

The nominal class prefixes are recapitulated here.

mó	1	va	2
mó	3	mi	4
ri	5	ma	6
kɪ	7	vi	8
ɪ(N)	9	zi(N)	10
ró	11		
ka	12	tó	13
vó	14		
ko	15		
ha	16		
kó	17		
mó	18		
gó	20		

A basic agreement paradigm using the adjectives *-dí* ‘small’ and *-angó* ‘fast, light’ is given below:

mólímí módí	‘farmer’	1
válímí vádí	‘farmers’	2
mbánó mǎdí	‘knife’	3
mbánó mǎdí	‘knives’	4
livó ¹ yó lídí	‘egg’	5

mavó ¹ yó mádí	‘eggs’	6
kiráá ¹ tó kídí	‘shoe’	7
viráá ¹ tó vídí	‘shoes’	8
ngóró ¹ vé índí	‘pig’	9
zíngró ¹ vé zíndí	‘pigs’	10
rogéembé ródí	‘razor’	11
kákóóngó ¹ kádí	‘boss-dim’	12
tókóóngó ¹ tódí	‘bosses-dim’	13
vwúó ¹ má vódí	‘fork hoe’	14
kóséembéllá kódi	‘weeding’	15
haroháángaywá ¹ hádí	‘at a cave’	16
moroháángaywá ¹ módí	‘in a cave’	17
kuroháángaywá ¹ kódí	‘on a cave’	18
gotwí ¹ gódí	‘ear’	20
mkáána mwaangu	‘fast girl’	1
guugá mwaangu	‘fast grandfather’	1a
avákáána vaangu	‘fast girls’	2
aváguugá vaangu	‘fast grandfathers’	2a
óm ¹ zúní mwaangu	‘fast sunbird’	3
imí ¹ zúní myaangu	‘fast sunbirds’	4
irivóyo ryaangu	‘light egg’	5
amavóyo maangu	‘light eggs’	6
ikísúsu chaangu	‘fast butterfly’	7
ivisúsu vyaangu	‘fast butterflies’	8
ɪnama ɪnangu	‘fast animal’	9
zɪnama zɪnangu	‘fast animals’	10
orokó rwaangu	‘light firewood’	11
kásaasó kaangu	‘light splinter-dim’	12
tó ¹ dógá twaangu	‘fast cars-dim’	13
vosera vwaangu	‘light porridge’	14
koseembella kwaangu	‘fast weeding’	15
háríkódu haangu	‘at a fast tortoise’ ³	16
kuríkódu kwaangu	‘in a fast tortoise’	17
möríkódu mwaangu	‘on a fast tortoise’	18
gotwí gwaangu	‘fast ear’	20

The stem -lala ‘1; some’ inflects nominally, and as noted in X, also reduces to *-lla* after a surface vowel-final class prefix (i.e. any class other than cl. 5, 11, 9, 10).

guugá molla	‘1 grandfather’	1a
vááguugá valla	‘some grandfathers’	2a
mwáána molla	‘1 child’	1

³ Normally, adjective agreement with the locative class rather than the lexical class of the noun means that the adjective modifies a spatial relation rather than the noun.

váána valla	‘some children’	2
abáchi molla	‘1 abachi’	3
mgera molla	‘1 river’	3
mígizi milla	‘some homesteads’	4
rívóyo llara	‘1 egg’	5
mavóyo malla	‘some eggs’	6
kedéte killa	‘1 finger’	7
viguuti villa	‘some fields’	8
mbwéé ndara	‘1 dog’	9
nyóómba ndara	‘1 house’	9
zínzógu zindara	‘some elephants’	10
rókó llara	‘1 firewood’	11
ká ¹ rááto kalla	‘1 shoe _{-dim} ’	12
kásaasó kalla	‘1 splinter _{-dim} ’	12
twíígizi tolla	‘some teachers _{-dim} ’	13
voséra volla	‘some porridge’	14
vwóóngo volla	‘1 brain’	14
koseembella kolla	‘1 weeding’	15
hakiguuti halla	‘at 1 field’	16
kukiguuti kolla	‘on 1 field’	17
mkiguuti molla	‘in 1 field’	18
ogwáána golla	‘1 child _{-aug} ’	20

Adjective agreement prefixes are optionally preceded by the augment, which may be deleted (see X). Some examples of adjectives with an augment from EM who generally retains the augment are seen here.

masééveeve	maséé ¹ véév-ámánéne	‘big pumpkin leaves’
amakére	amá ¹ kéré ¹ mánéne	‘big frogs’
omórími	ómórí ¹ mí ómónéne	‘big farm’
mgeni	mgéní mónéne	‘big stranger’
omwáána	omwáá ¹ ná móráhi	‘good child’
	omwáá ¹ n-ómóráhi	

The form *amá¹kéré¹mánéne* reflects the option of deleting the augment on the adjective, and *maséé¹véév-ámánéne* reflects the option of deleting it.⁴

As with nouns, the augment is virtually obligatory in cl. 9 adjectives, for all speakers.

ibáákoora	ibáákoórá ímwaam	‘black walking stick’
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⁴ Alternatively, it can be assumed that on adjectives, the augment is only optionally present, rather than being phonologically deleted. As discussed in X, there are good reasons to believe that the augment is present on nouns but is phonologically deleted, but **WAIT UP NANCY** since one of the argument of vowel lengthening before NC nouns. BUT don’t we lengthen a noun vowel before NC on an adj., or am I dreaming. If we lengthen then that shoots the shit out of that argument, or shows that adjective non-augment is also phonological deletion

imbáda	imbáda inangu	‘fast hawk’
ebéde	ébé ¹ dé índáhi	‘good ring’
	ebé ¹ dé ndáhi	
emboongo	émbóóngó éng’élle	‘young buffalo’
ikááyoongo	ikáá’yóó ¹ ng-ímbí	‘bad blackjack’
eng’oombe	eng’oombe inguru	‘hard-working cow’
ísá	ísá ¹ énéne	‘big clock’

Unlike other adjectives, ‘1’ / ‘some’ does not allow the augment.

*msáara omolla

*amóóngu amalla

Otherwise, the inflection of adjectives is regular, in light of the segmental and tonal rules discussed elsewhere. The form of the adjective agreement prefix is identical to the prefix on nouns.

1.2. Regular secondary agreement morphemes

A number of nominal modifiers take a distinct set of ‘secondary agreement’ morphemes. The stems which trigger this series of markers include demonstratives, possessives, plural numerals, wh-modifiers, as well as *-ndí* ‘other’, *-óosi* ‘all’, *-óombi* ‘both’, *-enyiné* ‘alone’ and *-ené* ‘self’. The latter two modifiers have an irregular form in cl. 1 and are discussed in section 1.3.

The secondary agreement morphemes are as follows.

u	1
va	2
gu	3
ji	4
ri	5
ga	6
ki	7
vi	8
(y)I	9
zi	10
ru	11
ka	12
tu	13
vu	14
ku	15
ha	16
ku	17
mu	18
gu	20

The crucial difference between primary and secondary class prefixes resides in the shape of morphemes for cl 1 (m̄ / ʊ), 3 (m̄ / gʊ), 4 (mi / ji), 6 (ma / ga), 9 (N / ɪ) and 10 (ziN / zi).

1.2.1. QUALIFIERS

Examples of the secondary prefixes with *-ndi* ‘additional, different, other, another’ are given here (lengthening of the prefix vowel is due to general phonological rule).

m̄ndʊ ʊndí	‘an additional person’	1
vásóóréeí vaandí	‘other youths’	2
m̄gúúnda gʊundí	‘another farm’	3
m̄ígúúnda j̄iindí	‘other farms’	4
lí ¹ gómyá liindí	‘a banana again’	5
máázi gaandí	‘different water’	6
kídá ¹ híró k̄iindí	‘other dipper’	7
vidá ¹ híró viindí	‘other dippers’	8
embóóngo ȳiindí	‘other buffalo’	9
z̄íngúrove z̄iindí	‘different pigs’	10
rófʊngú rʊundí	‘other key’	11
karyáángo kaandí	‘another door _{-dim} ’	12
togáánda tʊundí	‘some beans _{-dim} ’	13
tó ¹ dógá ¹ t̄óúndí	‘other cars _{-dim} ’	13
vwóova vʊundí	‘other mushrooms’	14
kodée ¹ ká kóúndí	‘cooking’	15
hádará ¹ já háandí	‘another place by bridge’	16
kukítá ¹ bó kóúndí	‘elsewhere on the book’	17
mónyóúmba mʊundí	‘elsewhere in the house’	18
gótó ¹ góúndí	‘another ear’	20
gósaasó ¹ góúndí	‘another splinter _{-aug} ’	20

Examples of this agreement pattern in the stem *-óosi* ‘all; whole’ are seen below

mwáá ¹ ná wóosi	‘the whole child’	1
ávásígú vóosi	‘all enemies’	2
baabá ¹ vóosi	‘all fathers’	2a
mugá ¹ dí jóosi	‘all the bread’	3
mbánó gwóosi	‘the whole knife’	3
migá ¹ dí jóosi	‘all breads’	4
ligéémbé lyóosi	‘all hoe’	5
rivá ¹ há lyóosi	‘the whole feather’	5
magéémbé góosi	‘all hoes’	6
ddá ¹ ráámó ¹ lyóosi	‘the whole drum’	6
kekóó ¹ mbé chóosi	‘the whole cup’	7
vímij̄nú ¹ vyóosi	‘all chicks’	8
idára ¹ já yóosi	‘the whole bridge’	9

zí'ngókó ¹ zyóosi	'all chickens'	10
rová'há rwóosi	'the whole wing'	11
kambítí ¹ kóosi	'the whole hyena _{-dim} '	12
tukóó'zá ¹ twóosi	'all uncles _{-dim} '	13
vodúúkuurá ¹ vwóosi	'all chicken fleas'	14
vwóó'ngó vwóosi	'the whole brain'	14
kódéé'ká kwóosi	'all cooking'	15
hámigé'rá hóosi	'at all rivers'	16
kuzíméé'sá kwóosi	'on all tables'	17
mzínyúú ¹ mbá mwóosi	'in all houses'	18
gutó ¹ gwóosi	'the whole ear'	20
gú ¹ bwóó'ní gwóosi	'whole potato _{-aug} '	20

For semantic reasons, the modifier -óombi 'both' does not appear in classes 1, 3, 5, 7, 9, 11, 12 or 10: forms in the remaining classes are seen below.

vágóógó vóombi	'both wives'	2
séé'ngé vóombi	'both aunts'	2a
abá'chí jóombi	'both abachi'	4a
mígé'rá jóombi	'both river'	4
míí'tá góombi	'both names'	6
vikóó'ndó vyóombi	'both monkeys'	8
zín'gó zyóombi	'both leopards'	10
tonyíí'ngú twóombi	'both cooking pots _{-dim} '	13
vwóó'vá vóombi	'both mushrooms'	14
kóvígúótí kwóombi	'on both fields'	15
hámigé'rá hóombi	'at both rivers'	16
kuzíméé'sá kwóombi	'on both tables'	17
mzínyúú ¹ mbá mwóombi	'in both houses'	18

1.2.2. NUMERALS

The numerals 2-5 agree in class with the head noun of an NP, whereas 6-10 and 100 do not agree.

váándó vá ¹ -vírí	'2 people'
váándó vá ¹ -vágá	'3 people'
váándó vá-ne	'4 people'
váándó vá ¹ -táánó	'5 people'
váándó sííta	'6 people'
váándó sába	'7 people'
váándó múnááne	'8 people'
váándó tísa	'9 people'
váándó ríkómi	'10 people'

Examples of each class with all agreeing numerals follow.

séenge vavírí	‘2 aunts’	2a
vá ¹ yááyí vavírí	‘2 boys’	2
abáchi jívírí	‘2 abachi’	4a
mígá ¹ dí jívírí	‘2 breads’	4
mavó ¹ yó gávírí	‘2 eggs’	6
víbóróbóró vvírí	‘2 butterflies’	8
zimbáángaywá zívírí	‘2 caves’	10
totí ¹ mú tóvírí	‘2 spears _{-dim} ’	13
vwóó ¹ má vvírí	‘2 fork-hoes’	14
kóséembéllá kó ¹ vírí	‘2 cultivatings’	15
hámgerá há ¹ vírí	‘at 2 rivers’	16
kuzíméé ¹ sá kóvírí	‘on 2 tables’	17
muzínyóú ¹ mbá zívírí	‘in 2 houses’	18
vááseenge vavágá	‘3 aunts’	2a
máá ¹ má vavágá	‘3 mother’	2a
váá ¹ ná vavágá	‘3 children’	2
mbánó jí ¹ vágá	‘3 knive’	4
magéémbe gavágá	‘3 hoes’	6
ví ¹ fóryá ¹ vvágá	‘3 pans’	8
zínzó zí ¹ vágá	‘3 leopards’	10
twíígízi tóvágá	‘3 teachers _{-dim} ’	13
vwóóvá ¹ vvágá	‘3 mushrooms’	14
kóséembéllá kó ¹ vágá	‘3 cultivatings’	15
hámíryáángó há ¹ vágá	‘at 3 doors’	16
kuzíméé ¹ sá kóvágá	‘on 3 tables’	17
mmásáándó ¹ gú mvágá	‘in 3 boxes’	18
várímí vá ¹ né	‘4 farmers’	2
mígérá jí ¹ né	‘4 river’	4
mavó ¹ yó gáné	‘4 eggs’	6
vyééyó ví ¹ nné	‘4 brooms’	8
zínzó zí ¹ nné	‘4 leopards’	10
tó ¹ dógá ¹ tóné	‘4 cars _{-dim} ’	13
vuchí ¹ má vóné	‘4 ugali’	14
kovó ¹ dóng ¹ áná ¹ kóné	‘4 spinnings’	15
háváándó há ¹ né	‘near 4 people’	16
kuzíméé ¹ sá kóné	‘on 4 tables’	17
mmisáá ¹ rá móné	‘in 4 trees’	18
vá ¹ yáá ¹ yí vátáánó	‘5 boys’	2
séenge vatáánó	‘5 aunts’	2a
mígérá jí ¹ táánó	‘5 rivers’	4
abáchi jítáánó	‘5 abachi’	4a
vikóó ¹ ndó vítáánó	‘5 monkeys’	8

zídará ¹ já zítáánó	‘5 bridges’	10
vwúó ¹ má vútáánó	‘5 fork-hoes’	14
kodeé ¹ ká kó ¹ táánó	‘5 cookings’	15
hamóó ¹ ngú hátáánó	‘at 5 pumpkin locations’	16
kómáginá kó ¹ táánó	‘on 5 stones’	17
mámá ¹ bwóóní ¹ mótáánó	‘in 5 potatoes’	18

The cl. 12 form of agreeing numerals is, in lieu of an overt cl. 12 head noun, used for ordinal numbers and to indicate repetitions

myóómba yá kavírí	‘2nd house’
omwáá ¹ ná wákávágá	‘3rd child’
ikítábu chá ¹ káné	‘4th house’
agwíí ¹ kávírí	‘he fell twice’
agwíí ¹ kávágá	‘he fell thrice’
agwíí ¹ káné	‘he fell 4 times’

Citation forms of the agreeing numerals are as follows.

	<i>Numeral(class)</i>
molla	1(3)
llara	1(5,11)
vávírí	2(2)
jívírí	2(4)
gávírí	2(6)
vvírí	2(8,14)
vávágá	3(2)
jívágá	3(4)
gávágá	3(6)
vvágá	3(8;14)
váné	4(2)
vátáánó	4(2)
jíné	4(4)
gáné	4(6)
jítáánó	5(4)
gátáánó	5(6)

Counting forms of the agreeing numerals are in cl. 9-10.

ndará	1
zívírí	2
zívágá	3
zíné	4
zítáánó	5
sííta	6
sabá	7

monááne	8
tisá	9
rikomi	10
ímya	100

1.2.3. WH

There are three agreeing NP modifiers, all of which employ the secondary agreement series. The most general is *-lihá* ‘which’

mó ¹ yaáyi oliha	‘which boy’	1
séé ¹ ngé ólíhá	‘which aunt’	1a
aváámi variha	‘which chief’	2
sééngé valhá	‘which aunts’	2a
móllo guriha	‘which fire’	3
mígúú ndá jíríhá	‘which farms’	4
livóyo lliha	‘which egg’	5
mavúríri gariha	‘which leaf trash’	6
chééyo kiriha	‘which broom’	7
vikóóndo viriha	‘which monkeys’	8
ibáákúúri iriha	‘which bowl’	9
zjíríchi ziriha	‘which bulls’	10
rókó lliha	‘which firewood’	11
ká ¹ dógá ¹ káríhá	‘which car _{-dim} ’	12
tó ¹ dógá ¹ tóríhá	‘which cars _{-dim} ’	13
voséra vuraha	‘which porridge’	14
koká ¹ ráángá ¹ kóríhá	‘which frying’	15
hakígúú ¹ tí háríhá	‘at which field’	16
kóméé ¹ sá kóríhá	‘on which table’	17
moroháángaywá moríhá	‘in which cave’	18
gutó guriha	‘which ear’	20
gú ¹ bwóó ¹ ní góríhá	‘which potato _{-aug} ’	20

The quantity modifier *-ri* ‘how much’ can be used with singular nouns if the object can be subdivided into sub-units.

mkáádo guri	‘how much avocado’	3
mikáádo jiri	‘how much pl. avocado’	4
rigáánda lli	‘how much (of one) bean’	5
rígóké ríri	‘how much ash’	5
mágáánda gari	‘how much pl. bean’	6
márwá gari	‘how much beer’	6
késééro kírí	‘how much hide’	7
vimé ¹ réméénde viri	‘how much pl. candy’	8

íkáhááwa iri	‘how much coffee’	9
rógúúchí l ^w li	‘how much dust’	11
tógáánda tori	‘how much beans _{-dim} ’	13
vwóóngo vuri	‘how much brain’	14
koká ¹ ráángá ¹ kóri	‘how much frying’	15

The modifier *-anga* ‘how many’ only combines with a countable noun which is either unmarked for number or is marked plural.

avááguukó ¹ váángá	‘how many grandmothers’	2a
guukó ¹ váángá	‘how many grandmothers’	2a
váábaabá ¹ váángá	‘how many fathers’	2
vákóóngó ¹ vá ¹ ángá	‘how many bosses’	2
mbánó ¹ já ¹ ángá	‘how many knives’	4
mageé ¹ mbé gáángá	‘how many hoes’	6
vikóó ¹ ndó vyáángá	‘how many monkeys’	8
zídará ¹ já ¹ zyáángá	‘how many bridges’	10
tóng ¹ óómbé twá ¹ ángá	‘how many cows _{-dim} ’	13
vosé ¹ rá vwá ¹ ángá	‘how many porridges’	14
kóyá ¹ vá kwá ¹ ángá	‘how much digging’	15
hamágáni ¹ sá háángá	‘in how many churches’	16
kumági ¹ ná kwáángá	‘on how many stones’	17
mzínyóú ¹ mbá mwáángá	‘in how many houses’	18

Examples of ‘whose’ are covered below under N of N.

1.2.4. POSS PRO

Possessive pronouns are generally formed by combining a secondary prefix and a person-appropriate pronominal stem. The person markers, apart from 2s and cl. 1, are as follows (tone at the start of the pronoun is subject to phrasal variation discussed in Q, which includes optional rule application):

1s	-á ¹ ángé
1p	-íító
2p	-íínyú ⁵
cl. 2	-áávó

⁵ Very often, the 2pl. possessive stems seems to have a different vowel from the 1pl stem, suggesting *-íító* versus *-íínyú*. This is due to the following consonant and vowel, where a palatal consonant and tense vowel may influence the pronunciation of [íí] in the 2pl. form so that it resembles [íi]. There is also a minor tendency for the high vowel in the plural pronouns stems to be pronounced [e], vis [véényú], which is partially because of the acoustic variability of [u, ɪ] in the language but also partially due to influence from Swahili and other languages, where the stems are [etu, enyu].

Person markers for 2s and cl. 1 are formed via a pattern, involving double-marking of noun class separated by a harmonizing vowel, and the final suffixes *-o* (2s) and *-e* (cl. 1). A person paradigm for cl. 5 agreement is seen below.

rití ¹ mú ryá ¹ ángé	‘1s spear’
rití ¹ mú ryíító	‘1p spear’
rití ¹ mú rí ¹ íryó	‘2s spear’
rití ¹ mú ryíínyú	‘2p spear’
rití ¹ mú rí ¹ íryé	‘3s spear’
rití ¹ mú ryáávó	‘3p spear’

There are two additional complications in the form of possessive pronouns. First, the stem for 1s can be (and usually is) shortened to just *-aa* rather than *-aange*. Second, the pronoun stem can be directly attached to the noun, without agreement, if the noun is cl. 1 – see also discussion of associative constructions. Examples of the full form for 1s possessor are as follows.

		<i>class</i>
mká ¹ rájí wá ¹ ángé	‘1s judge’	1
móóndó wá ¹ ángé	‘my person’	1
séé ¹ ngé wá ¹ ángé	‘1s aunt’	1
chífú ¹ wá ¹ ángé	‘1s chief’	1
váásyará ¹ vá ¹ ángé	‘my cousins’	2
váándó vá ¹ ángé	‘my people’	2
váá ¹ sééngé ¹ vá ¹ ángé	‘my aunts’	2
mboozó ¹ vá ¹ ángé	‘my cs-sibs’	2
mbá ¹ nó gwá ¹ ángé	‘my knife’	3
msáá ¹ rá gwá ¹ ángé	‘my tree’	3
imisáá ¹ rá já ¹ ángé	‘my trees’	4
mbá ¹ nó já ¹ ángé	‘my knives’	4
rínyó ¹ nyí ryá ¹ ángé	‘my bird’	5
matí ¹ mú gá ¹ ángé	‘my spears’	6
mányó ¹ nyí gá ¹ ángé	‘my birds’	6
kékóó ¹ mbé chá ¹ ángé	‘my cup’	7
víkóó ¹ mbé vyá ¹ ángé	‘my cups’	8
ímbú ¹ rí yá ¹ ángé	‘my goat’	9
zimbú ¹ rí zyá ¹ ángé	‘my goats’	10
rókó ¹ rwá ¹ ángé	‘my firewood’	11
vúchí ¹ má vwá ¹ ángé	‘my ugali’	14
koseembella kwaange	‘my weeding’	15
haméé ¹ sá há ¹ ángé	‘at my table’	16
kokítá ¹ bó kwá ¹ ángé	‘on my book’	17
mónyóó ¹ mbá mwá ¹ ángé	‘in my house’	18
gótó ¹ gwá ¹ ángé	‘my ear’	20

icháánzeywé wá!ángé ‘my Chanzeywe’ 23⁶

The more common truncated form deletes the second syllable.

mtéé ¹ ndé wáá	‘my neighbor’	1
séé ¹ ngé wáá	‘1s aunt’	1a
vatéé ¹ ndé wáá	‘my neighbor’	2
váá ¹ sééngé wáá	‘1s aunts’	2a
m̀bá ¹ nó gwáá	‘my knife’	3
midíígi ¹ ró jáá	‘1s crutches’	4
rigó ¹ tó ryáá	‘1s elder’	5
madíí ¹ jí gáá	‘my walls’	6
keréé ¹ ngé cháá	‘my leg’	7
vítuungóó ¹ ró vyáá	‘my onions’	8
émbóó ¹ ngó yáá	‘my buffalo’	9
zíngo zyáá	‘my leopards’	10
órózé ¹ rwáá	‘my grain drying area’	11
ká ¹ dógá ¹ káá	‘my car _{-dim} ’	12
otójá ¹ máno ¹ twáá	‘my squirrels _{-dim} ’	13
vochí ¹ má vwáá	‘my ugali’	14
kódéé ¹ ká kwáá	‘my cooking’	15
hamsáá ¹ rá háá	‘at my tree’	16
komóri ¹ mí kwáá	‘on my farm’	17
mondóó ¹ hó mwáá	‘in my bucket’	18
gutó ¹ gwá	‘my ear’	20
imájéé ¹ ngó wáá	‘my Majengo’	23

1pl possessors are marked with the stem *-íítú*.

mboozó ¹ wíító	‘our cs-sib’	1
molí ¹ mí wíító	‘our farmer’	1
chí ¹ fú wíító	‘our chief’	1
mboozó ¹ víító	‘our cs-sibs’	2
valí ¹ mí víító	‘our farmers’	2
varóó ¹ ndí víító	‘our followers’	2
vatéé ¹ ndé víító	‘our neighbor’	2
vááseéngé ¹ víító	‘1p aunts’	2
koozá ¹ víító	‘our uncles’	2
vákoozá ¹ víító	‘our uncles’	2
m̀bá ¹ nó gwíító	‘1p knife’	3
umóri ¹ mí gwíító	‘1p farm’	3
modíígi ¹ ró gwíító	‘our crutch’	3

⁶ The patterns for cl. 20 and 23 illustrate a fundamental problem of noun class detection. Class 23 induces agreements that are the same as cl. 9 in some contexts, and cl. 1 in other contexts – but never a morpheme that is unique to cl. 23. Class 20 always induces cl. 3 agreements, indeed cl. 20 could be relegated to ‘special prefix allomorph’ for the singular noun prefix.

ímítwí ¹ jíító	‘1p heads’	4
ryíí ¹ tá ryíító	‘our name’	5
matí ¹ mú gíító	‘1p spears’	6
madúú ¹ má gíító	‘our maize’	6
késée ¹ ró chíító	‘1p hide’	7
kédé ¹ té chíító	‘our finger’	7
virée ¹ ngé vyíító	‘our leg’	8
vidé ¹ té vyíító	‘our fingers’	8
síí ¹ ndáání zyíító	‘our needles’	9
zidáá ¹ ywá zyíító	‘our roosters’	10
órózé ¹ rwíító	‘1p grain drying area’	11
rogée ¹ ndó rwíító	‘1p journey’	11
rogée ¹ mbé rwíító	‘our razor’	11
akáá ¹ ná kíító	‘our child _{dim} ’	12
otwáá ¹ ná twíító	‘our children _{dim} ’	13
vosé ¹ rá vwíító	‘1p porridge’	14
kodée ¹ ká kwíító	‘our cooking _{dim} ’	15
háskóó ¹ ró híító	‘at out school’	16
kokeségesé ¹ kwíító	‘on our roof peak’	17
mbáá ¹ kóó ¹ rí mwíító	‘in our bowl’	18
gú ¹ fwááví ¹ gwíító	‘our dirtiness’	20

2pl is denoted with the stem *-íínyú*.

mtéénde wíínyú	‘2p neighbor’	1
mólí ¹ mí wíínyú	‘2p farmer’	1
móóndó wíínyú	‘2p person’	1
sée ¹ ngé wíínyú	‘2p aunt’	1a
daadá ¹ wíínyú	‘2p father’	1a
vatée ¹ ndé wíínyú	‘2p neighbors’	2
vakó ¹ róóndó ¹ wíínyú	‘2p elder’	2
avalí ¹ mí wíínyú	‘2p farmers’	2
amwaavó ¹ wíínyú	‘2p same-sex sibling’	2a
ɔmpáá ¹ ngó gwíínyú	‘2p plan’	3
modíígí ¹ ró gwíínyú	‘2p crutch’	3
ɪmpáá ¹ ngó jíínyú	‘2p plans’	4
midíígí ¹ ró jíínyú	‘2p crutches’	4
rití ¹ mú ryíínyú	‘2p spear’	5
rití ¹ mú ryíínyú	‘2p spear’	5
mátí ¹ mú gíínyú	‘2p spears’	6
kítóungóó ¹ ró chíínyú	‘2p onion’	7
vítóungóó ¹ ró vyíínyú	‘2p onions’	8
vidé ¹ té vyíínyú	‘2p fingers’	8
mávó ¹ dó yíínyú	‘2p basket’	9
éng ¹ óó ¹ mbé yíínyú	‘2p cow’	9
rogée ¹ ndó rwíínyú	‘2p journey’	11

rókááyí'ró rwíínyú	'2p sickle'	11
vosé'rá vwíínyú	'2p porridge'	14
vwóó'vá vwíínyú	'2p mushroom'	14
koséémbé'íllá kwíínyó	'2p weeding'	15
harígí'ná híínyó	'by 2p stone'	16
kómítwí 'kwíínyó	'on 2p heads'	17
mkíráá'tó mwíínyó	'in 2p shoe'	18
gó'fwaáví 'gwíínyú	'2p dirtiness'	20

The 2nd person singular is based on a pattern AGR₁-V-AGR₂-o, which resembles the distal demonstrative with the following conditions:

<NB that may be EM, so recheck as much as possible>

C of AGR₂ is [v] rather than [w] in cl. 1 ([woovo])

V is a **tense** copy of an underlying high vowel of AGR₂: [jiijo, guugwo], and is [o] if the vowel of AGR₂ is /a/ (which deletes): [voovo]. V is also [o] in cl. 9 .

mtéénde wó'óvó	'2s neighbor'	1
séé'ngé wóóvó	'2s aunt'	1
vatéénde vó'óvó	'2s neighbors'	2
vááseengé 'vó'óvó	'2s aunts'	2
m̀bá'nó gú'úgwó	'2s knife'	3
ímbá'nó jí'j́	'2s knives'	4
ritímú 'rí'ryó	'2s spear'	5
mátí'mú gó'ógó	'2s spears'	6
kédé'té chí'chó	'2s finger'	7
vídé'té ví'vyó	'2s fingers'	8
imbú'rí yó'óyó	'2s goat'	9
zimbú'rí zí'zyó	'2s goats'	10
rogéé'ndó rú'rwó	'2s journey'	11
kakóó'zá kóó'kó	'2s uncle _{-dim} '	12
tukóó'zá túú'twó	'2s uncles _{-dim} '	13
vosé'rá vúú'vwó	'2s porridge'	14
kodéé'ká kúú'kwó	'2s cooking'	15
hám'dógá 'hóó'hó	'by 2s car'	16
kokéréé'ngé kúú'kwó	'on 2s leg'	17
mogotó 'múú'mwó	'in 2s ear'	18
mogotó 'múú'mwó	'in 2s ear'	18
mwígání'sá m̀m' 'mwó	'in 2s church'	18 ⁷
ogútó 'gúú'gwó	'2s ear'	20

3s employs a pattern analogous to 2s, selecting /e/ as the final vowel, **and /ɪ/ as the V between agreement elements**, <well fuck the recent EM data on this is quite mixed>

⁷ Deletion of *u* between instances of *m* is due to a phonological rule discussed in X.

which harmonizes with following *e*. As with 2s, the cl. 1 agreement C is [v], not [w]. Thus, the pattern for 3s pronouns is AGR₁-I-AGR₂-e.

msáá'zá wé'évé	'3s husband'	1
séé'ngé wéévé	'3s aunt'	1
váasyaará 'vé'évé	'3s cousins'	2
váaseengé 'vé'évé	'3s aunts'	2
ó'm'féré'jí gwí'gwé	'3s water tap'	3
imyóó'gó jí'jé	'3s cassavas'	4
mbá'nó jí'jé	'3s knives'	4
ligéé'mbé lí'ilyé	'3s hoe'	5
matí'mú gé'égé	'3s spears'	6
keréenge chíi'ché	'3s leg'	7
vítuungó'ró ví'vyé	'3s onions'	8
mávó'dó yé'évé	'3s basket'	9
zínjúú'gú zí'izyé	'3s peanuts'	10
rogéé'ndó rwí'rwé	'3s journey'	11
akáng'óó'mbé ké'éké	'3s cow'	12
otóng'óó'mbé twí'twé	'3s cows'	13
vochí'má vwí'ívwé	'3s ugali'	14
kóséembéla kwí'kwé	'3s weeding'	15
harúgá'gá héé'hé	'at 3s fence'	16
kokítá'bó kwí'ikwé	'on 3s book'	17
m̀biká'bó mwí'mwé	'in 3s basket'	18
gutó gwí'ígwe	'3s ear'	20

The cl. 2 (3pl) pronoun combines the secondary agreement prefix with the stem *-avó*.

móóndo wáávó	'their person'	1
séé'ngé wáávó	'their aunt'	1a
mboozó' wáávó	'their cs-sibs'	2
váamboozá 'wáávó	'their siblings'	2a
varó'ndí wáávó	'their followers'	2
moryáá'ngó gwáávó	'their door'	3
mbá'nó jáávó	'their knives'	4
rití'mú ryáávó	'their spear'	5
magóóngór'ó gáávó	'their millepedes'	6
kédé'té cháávó	'their finger'	7
vidé'té vyáávó	'their fingers'	8
éng'óó'mbé yáávó	'their cow'	9
zinávó'dó zyáávó	'their baskets'	10
órózé 'rwáávó	'their grain drying area'	11
akágáá'ndá káávó	'their bean _{-dim} '	12
otógáá'ndá twáávó	'their beans _{-dim} '	13

vwóó ¹ kí vwáávo	‘their honey’	14
koséembé ¹ llá kwáávo	‘their weeding’	15
hamoryáá ¹ ngó háávo	‘at their door’	16
konyóó ¹ mbá kwáávo	‘on their house’	17
mózing’óó ¹ mbé mwáávo	‘in their cows’	18

Contracted forms, i.e. ones with no agreement prefix on the possessive pronoun, exist for nouns in cl. 1 or 1a (the later of which as noted elsewhere may be syntactically plural) – see X for discussion of the phonological changes found with contraction.

séé ¹ ngáá ¹ ngé	‘1s aunt’	1a
séé ¹ ngíító	‘1p aunt’	1a
mká ¹ rájá ¹ ángé	‘1s judge’	1
mtéé ¹ ndíító	‘1p neighbor’	1
baabó ¹ óvo	‘2s father’	1a
mtéé ¹ ndó ¹ óvo	‘2s neighbor’	1
séé ¹ ngíínyú	‘2p aunt’	1a
mtéé ¹ ndíínyú	‘2p neighbor’	1
séé ¹ ngééve	‘3s aunt’	1a
msáá ¹ zéévé	‘3s husband’	1
mtéé ¹ ndáávo	‘3p neighbor’	1
séé ¹ ngáávo	‘3p aunt’	1a

Citation forms of possessive pronouns may be used in discourse-appropriate contexts such as replying to a question, e.g. “Whose book did he take?” – “Mine”. The form of the pronoun is essentially the same as that found in phrasal collocations, except that the plural pronouns have the tone pattern HL rather than HH, and the augment may be present. Examples with the augment are seen here.

owá ¹ ángé	1s (1)
owíító	1p (1)
owó ¹ óvo	2s (1)
owíínyu	2p (1)
owé ¹ évé	3s (1)
owáávo	3p (1)
avá ¹ ángé	1s(2)
avíító	1p(2)
avó ¹ óvo	2s (2)
avíínyu	2p(2)
avé ¹ évé	3s (2)
aváávo	3p(2)
ogwá ¹ ángé	1s (3)
ogwí ¹ ígwé	3s (3)
ijíító	1p(4)
ijá ¹ ángé	1s(4)
ijáávo	3p(4)

iryííto	1p(5)
iríí'ryé	3 (5)
agá'ángé	1 (6)
agííto	1p(6)
agó'ógó	1s(6)
agíínyu	2p(6)
agáávo	3p(6)
agé'égé	3s(6)
agé'égé	3s(6)
ichá'ángé	1s(7)
ichíí'chó	2s(7)
ivyá'ángé	1s(8)
ivyíínyu	2s(8)
ivyíínyu	2p(8)
ivyíínyu	2p(8)
iyííto	1p(9)
iyá'ángé	1s(9)
iyíínyu	2p(9)
iyó'óyó	2s(9)
iyáávo	3p(9)
iyé'éyé	3s(9)
izyá'ángé	1s(10)
orwííto	1p(11)
orwá'ángé	1s(11)
orwíínyu	2p(11)
orwí'írwé	3s(11)
aká'éngé	1s(12)
aké'éké	3s(12)
akíínyu	2p(12)
akó'ókó	2s(12)
otwííto	1p(13)
ótóó'twó	2s(13)
ovwííto	1p(14)
ovwá'ángé	1s(14)
ovwíínyu	2p(14)
ovú'úvwó	2s(14)
ovwí'ívwé	3s(14)
ogwá'ángé	1s(20)
ogúú'gwó	2s(20)
ugwáávo	3p(20)

At present it is unclear if harmony is possible in aug-G[e/o]. The relevant contexts would be cl. 1, 9 2s and 3s possessor. Generally there is no harmony across the glide.

iyé'éyé	his. ₉
owó'ówó	yours. ₁

owé¹évé his.₁

Harmony has been accepted but also rejected:

*owó¹óvó
*owé¹évé
eyó¹óyó (maybe)
eyé¹éyé (maybe)

In the case of a post-copula it is harder to tell whether there is harmony since COP_{-aug}(9) unharmonized has the same as COP with no augment.

niyó¹óyó ‘it’s yours’
neyó¹óyó ‘it’s yours’
niyé¹éyé ‘it’s his’
neyé¹éyé ‘it’s his’
nowá¹ángé ‘it’s mine’
nrwá¹ángé ‘it’s mine’
niyó¹óyó ‘it’s yours-9’
nowó¹óvó ‘it’s yours-1’
*nowó¹óvó
nowé¹évé ‘it’s his-1’
*nowé¹évé

Examples without the augment are as follows.

wá¹ángé 1s (1)
wító 1p (1)
wó¹óvó 2s (1)
wíinyu 2p (1)
wé¹évé 3s (1)
wáávo 3p (1)
vá¹ángé 1s(2)
víito 1p(2)
gá¹ángé 1s(6)
gáávo 3p(6)
gé¹égé 3s(6)
chá 1s(7)
chá¹ángé 1s(7)
cháávo 3p(7)
chíinyu 2p(7)
chíitu 1p(7)
chí¹íché 3s(7)
chí¹íchó 2s(7)
yó¹óyó 2s(9)

vwíító

1p(14)

For possessors in classes other than 1-2, the general form of the pronoun is AGR_{head-a-}AGR_{poss-o}

		N head class	possessor class
mtwí 'gwáyó	'head of 9'	3	9
omotwí gwarwó	'head of 11'	3	11
rigó'dó lyágwó	'skin of 3'	5	3
rigódo ryachó	'skin of 7'	5	7
rivóyo ryayó	'egg of 9'	5	9
mágódo gajó	'skins of 4'	6	4
magó'dó gázyó	'skins of 10'	6	10
keréenge charyó	'leg of 5'	7	5
keréenge chachó	'leg of 7'	7	7
keréenge charwó	'leg of 11'	7	11
víréenge vyagó	'legs of 6'	8	6
gotó gwachó	'ear of 7'	20	7
motwí gwaryó	'head of 5'	3	5

Like other possessive pronouns, the augment is allowed in citation forms.⁸

waryó	'1 of it. ₅ '
owáryo	'1 of it. ₅ '
varyó	'2 of it. ₅ '
aváryo	'2 of it. ₅ '
gwaryó	'3 of it. ₅ '
ogwáryo	'3 of it. ₅ '
ryaryó	'5 of it. ₅ '
iryáryo	'5 of it. ₅ '
gajó	'6 of it. ₁₀ '
agájo	'6 of it. ₅ '

1.2.5. ASSOCIATIVE

The secondary agreement prefix combined with -a- is used in a wide range of constructions where a noun (phrase) serves as a modifier within another NP. The examples below illustrate this prefix before a proper name, in a possessive construction.

baabá wa marova	'father of Marova'	1a
móróóndi wa mong'oma	'follower of Mung'oma'	1
váákoozá 'vá ródéeji	'Rodeji's uncle'	2a
vatéende va rodéeji	'Rodeji's neighbor'	2
ombá' nó gwá míháya	'knife of Mihadya'	3

⁸ The tone shifts in these examples are discussed in Z.

abáchi gwa rodééji	‘Rodeji’s abachi’	3a
imbáno gwa kisaato	‘knife of Kisaato’	4
abáchi ja rodééji	‘Rodeji’s abachis’	4a
ddííji rya rodééji	‘Rodeji’s wall’	5
amóúngó ga kidwááro	‘pumpkins of Kidwaro’	6
kirááto cha rodééji	‘Rodeji’s shoe’	7
virááto vya rodééji	‘Rodeji’s shoe’	8
eng’óó ¹ mbé yá víhééndá	‘Vihenda’s cow’	9
zíngúgí zya rodééji	‘Rodeji’s baboons’	10
rogéé ¹ mbé rwá ródééji	‘Rodeji’s razor’	11
kádogá ka marova	‘Marova’s car _{-dim} ’	12
tódogá twa marova	‘Marova’s cars _{-dim} ’	13
voséra vwa rodééji	‘Rodeji’s porridge’	14
koséémbélla kwa marova	‘Marova’s weeding’	15
hagání ¹ sá há ródééji	‘at Rodeji’s church’	16
kokésé ¹ gésé chá ródééji	‘on Rodeji’s roof’	17
mónyóúmba mwa marova	‘in Marova’s house’	18
ogútó ¹ gwá ródééji	‘Rodeji’s ear’	20

The same prefix is used before a common noun, with the additional complication that the noun retains the augment (even for augment-avoiding speakers), so /a/ of the associative prefix is deleted and the associative syllable bears H tone.⁹ The post-consonantal glide *w* may delete before *o*, likewise *y* before *i*.

mkárají w-í ¹ cháá ¹ nzéy ¹ wé	‘judge of Chanzeywe’	1	9
msí ¹ gó w-á ¹ káné	‘fourth enemy’	1	12
omórína w-ó ¹ vvééshi	‘false friend’	1	14
avárína v-ó ¹ vvééshi	‘false friends’	2	14
aváá ¹ ná v-ó ¹ kótáanga	‘first children’	2	15
mgádi g(w)-óm ¹ káádo	‘avocado bread’	3	3
mogáánda gw-í ¹ víbágá	‘crowd of cats’	3	8
misííbi j-ó ¹ mwáana	‘belts of child’	4	1
mbáno j-ávaando	‘knives of the people’	4	2
rigó ¹ dó ry-é ¹ kérééngé	‘skin of leg’	5	7
rigódo r-í ¹ póúnda	‘skin of donkey’	5	9
márwá ¹ g-í ¹ rí ¹ góm ¹ yá	‘banana beer’	6	5
amééyo g-éé ¹ nyóúmba	‘broom for a house’	6	9
kémerwá ch-í ¹ rígáánda	‘bean plant’	7	5
viréé ¹ ngé v-í ¹ zí ¹ ngókó	‘legs of chickens’	8	10
viréé ¹ ngé vy-ó ¹ kótáanga	‘first legs’	8	15
myóú ¹ mbá y-óm ¹ bó ¹ gósó	‘house of the Bukusu’	9	1
ibáákóúrí y-ámaheengere	‘bowl of mahengere’	9	6
éng’óómbe y-ó ¹ vvééshi	‘false cow’	9	14

⁹ For semantic reasons, the previous examples of N1 - assoc - N2 constructions with a proper name as N2 were possessive, but with common nouns the range of semantic relations in the construction is wider.

izí'ímyá 'z-ízi'ngókó	'hundreds of chickens'	10	10
rovóúsí 'rw-ámádoongoro	'string for beads'	11	6
rogéé'ndó rw-á'káné	'fourth journey'	11	12
akáána kú'mwáámi	'child _{dim} of the chief'	12	1
otwáána tó'mwáámi	'children _{dim} of the chief'	13	1
vuchi'má vwá'mádúúma	'corn ugali'	14	6
ovurímu vw-éeng'oombe	'grass for cow'	14	9
kórirá kwízing'oombe	'crying of cows'	15	10
hányúú'mbá hómugeni	'by the house of the guest'	16	1
kumgóóngo kwééng'oombe	'on the back of the cow'	17	9
mogatí 'mw-ílíbóógisi	'inside of the box'	18	5
mubáákúú'rí mwómugeni	'in the bowl of the guest'	18	1
murígódo mwíki'fóoyo	'in the skin of the rabbit'	18	7
ugótó gwó'mwíiha	'ear of the bride'	20	1

Proper names as N₂ in N of N can, in some instances, optionally take the augment, in which case their phonological pattern is identical to that of common nouns.

baabá 'w-óródééji	'Rodeji's father'	1a
víí'vóri v-ó'ródééji	'parents of Rodeji'	2
umbáno gw-í' mihádya	'knife of Rihadya'	3
imírí'mí jó' ródééji	'farms of Rodeji'	4
iryóóngu ryí' kídwaáro	'pumpkins of Kidwaro'	5
amóó'ngú gí' kídwaáro	'pumpkins of Kidwaro'	6
eng'óó'mbé yí'vihééndá	'Vihenda's cow'	9

Similar to the situation with possessive pronouns, the class 1 associative prefix, which would be realized as [w], may delete.¹⁰

móróóndi a mung'oma	follower of Mung'oma
múróóndi a mung'oma	follower of Mung'oma
mkóóng-aa marova	Marova's boss
mkári-a marova	Marova's wife
omwáán-aa marova	Marova's child
omwíí'gízí a marova	Marova's teacher
morína a marova	Marova's friend
msíga a marova	Marova's enemy
mwiikaamarova	Marova's relative
gookaamarova	marova's grandmother
seengaa midéécha	Mideecha's aunt
omwaami a marova	Marova's chief
omwáámi a marova	Marova's chief

¹⁰ Agreement-deletion is tonally and semantically distinct from the relational structure discussed in X, exemplified in *maam-omwáána* 'mother to the child'.

mwáámi a marova	Marova's chief
mkóóngaamarova	Marova's boss
msíg-aa marova	Marova's enemy
omsíg-aa marova	enemy of Marova
mkárají a marova	Judge of Marova
omwáán-aa marova	child of Marova
mwaan-aa Marova	child of Marova
omwáán-aa marova	child of Marova
mwaan-aa marova	child of Marova
víik-aa marova	Marova's relatives
mwíí'gíz-íú' mwáána	teacher of the child
máá'm-ó' mwáána	child of the mother
gougá oródééji	grandfather of Rodeeji

<yes there is length: will return to this but here are more:

msí!g-óóródééji	enemy of Rodeji
omwíísukur-aa marova	grandchild of Marova
seeng-aa mihádyá	aunt of mihadya
omódót-aa mihádyá	infant of mihadya
omwíik-aa mihádyá	relative of mihadya
ámwááv-áámihádyá	brother of mihadya

1.2.6. DEMONSTRATIVES

There are 4 morphological series of spatial demonstratives in Logoori.¹¹ The first proximal series ('near speaker') is formed according to the template (y)V-AGR where AGR is the secondary agreement morpheme appropriate for the class. The prefix vowel is

¹¹ There are 2 additional demonstratives which have a slightly different morphological form, presented in

X.

basically *ɪ*, except in cl. 1 where it is *o* (and “(y)” is null), and it assimilates to following /a/. Initial /*(y)*/ is typically deleted in connected speech, but is present in the following examples.¹²

oyo	móóndu oyo	‘this person’	1
yava	váándu yava	‘these people’	2
yigo	m̀báno yigo	‘this knife’	3
yiji	misáá ¹ rá yiji	‘these tree’	4
yiri	rigéémbe yiri	‘this hoe’	5
yaga	mágéémbe yaga	‘these hoe’	6
yiki	kédé ¹ té yiki	‘this finger’	7
yivi	vídé ¹ té yivi	‘these fingers’	8
yiyi	ébé ¹ dé yiyi	‘this ring’	9
yizi	zíbé ¹ dé yizi	‘these ring’	10
yiru	rugága yiru	‘this fence’	11
yaka	ká ¹ dógá yaka	‘this car _{-dim} ’	12
yivo	ovóró ¹ yivo	‘this finger millet’	14
yaha	haméé ¹ sá yaha	‘at this table’	16
yiku	koméé ¹ sá yiku	‘on this table’	17
yim	moróju yim	‘in this clay bowl’	18
yigu	gótó ¹ yigu	‘this ear’	20

Examples with deletion of *y* include these: this is a phonological issue, discussed in more detail in Q.

orógéénd-irru	‘this trip’
ótómbít-írto	‘this hyena’
koséémbéll-irku	‘this weeding’

The second distal series (‘near hearer’) is the same in form as the first series, with the added suffix *-o*, subject to regular phonological rules of glide formation and vowel harmony.

oyo	m̀bú ¹ gós-óoyo	‘that Bukusu’	1
yavo	váándu yavo	‘those people’	2
yigwo	mori ¹ tú yigwo	‘that forest’	3
yijo	migéra yijo	‘those river’	4
yiryo	rigéé ¹ mbé yiryo	‘that hoe’	5
yago	magéé ¹ mbé yágo	‘those hoe’	6
yicho	kisí ¹ rí yicho	‘that veg. hoe’	7
yivyo	visí ¹ rí yivyo	‘those veg. hoe’	8
yeyo	ingáta yeyo	‘that headpad’	9
yizyo	zingáta yizyo	‘those headpads’	10
yirwo	rogééndo yirwo	‘that journey’	11

¹² Tonal alternating involving demonstratives are discussed in W.

yako	kanyíngu yako	‘that cooking pot _{-dim} ’	12
yitwo	tó ¹ dóg-ítwo	‘those cars _{-dim} ’	13
yivwo	vosér-ivwo	‘that porridge’	14
yikwo	koséembéll-ikwo	‘that weeding’	15
yaho	haméésa yaho	‘at that table’	16
yikwo	komée ¹ sá yikwo	‘on that table’	17
yimwo	murój-imwo	‘in that clay bowl’	18
yigwo	gótó yigwo	‘that ear’	20

The third remote-distal (‘remote from participants’) series is formed by prefixing the secondary agreement morpheme to /ra/.

ora	mudót-oura	‘that rem. infant’	1
vara	váandu vara	‘those rem. people’	2
gora	msáá ¹ rá góra	‘that rem. tree’	3
jira	misáá ¹ rá jira	‘those rem. tree’	4
rira, lla	llée ¹ sí lla	‘that rem. cloud’	5
gara	marée ¹ sí gara	‘those rem. clouds’	6
kira	kerée ¹ ngé kira	‘that-rem. leg’	7
vira	vígurú ¹ vira	‘those rem. hill’	8
yira	embóó ¹ ngó íra	‘that rem. buffalo’	9
zira	zimbóó ¹ ngó zira	‘those rem. buffalos’	10
rora, lla	urwí ¹ gá ¹ l ^w lá	‘that horn’	11
kara	katímu kara	‘that-rem spear _{-dim} ’	12
tora	ótombítí tora	‘those hyenas _{-dim} ’	13
vora	vuchíma vorya	‘that rem. ugali’	14
kora	koséembélla kora	‘that weeding’	15
hara	hamée ¹ sá hára	‘at that table’	16
kora	komée ¹ sá kóra	‘on that table’	17
mora	murój ¹ mora	‘in that clay bowl’	18
gora	gú ¹ bwóóni gora	‘that potato _{-aug} ’	20

The final proximal series (an optional variant of the first proximal series: not used by all speakers) is formed by prefixing the secondary agreement morpheme to -no.

ono	mkáá ¹ ná óno	‘this girl’	1
vano	vakáá ¹ ná váno	‘these girls’	2
gono	mwóóyo gono	‘this voice’	3
jino	myóó ¹ gó jino	‘these cassavas’	4
rino	ryíí ¹ tá rino	‘this name’	5
gano	míí ¹ tá gano	‘these name’	6
kino	kedé ¹ té kino	‘this finger’	7
vino	vidé ¹ té vino	‘these fingers’	8
yino	embóóngo yino	‘this buffalo’	9
zino	zimbóóngo zino	‘these buffalos’	10
rono	rokú ¹ rónó	‘this firewood’	11

vono	voséra vono	‘this porridge’	14
gono	gótú gono	‘this ear’	20

1.3. Special Secondary Agreement

Two stems take somewhat irregular variant forms of the secondary agreement series, limited to cl. 1 – the irregularity is in selecting /mʊ/ or /ye~we/ as the class 1 prefix. In addition, these stems have two tone patterns which are associated with different interpretations. The first is *-ené* ‘specific’ and the tonal variant *-éne* ‘itself’, both of which takes the nominal cl. 1 prefix /mʊ-/ but otherwise take the regular secondary prefixes. Examples of ‘specific’ are given below.

ómóó ¹ ndú mwééné	‘the specific person’	1
aváána veené	‘the specific children’	2
msáára gweené	‘the specific tree’	3
ímisáá ¹ rá jééné	‘the specific trees’	4
risyáámógómá lyeené	‘the specific gecko’	5
matí ¹ gínyú geené	‘the specific heels’	6
kisí ¹ mbíkírà cheené	‘the specific whydah’	7
vísógóto vyeené	‘the specific cobs’	8
éng’óó ¹ mbé yééné	‘the specific cow’	9
zing’é ¹ réng’ání zyeené	‘the specific stars’	10
rwí ¹ mbó rwééné	‘the specific song’	11
akáá ¹ ná kééné	‘specific child _{-dim} ’	12
otwáá ¹ ná twééné	‘specific children _{-dim} ’	13
vóséra vweené	‘the specific porridge’	14
kodéé ¹ ká kwééné	‘specific cooking’	15
hanyóó ¹ mbá hééné	‘at the specific house’	16
kóméé ¹ sá kwééné	‘on the specific table’	17
mmísáá ¹ rá mwééné	‘in the specific trees’	18
gotó gweené	‘the specific ear’	20

The tonal alternative *-éne* has the meaning ‘alone, on one’s own’, and can take the augment.

ómóóndú mwééne	‘the person on his own’
avarógoori avééne	‘the Logooris on their own’
avanákivara vééne	‘the non-Logoori on their own’
mkáá ¹ dó gwééne	‘the avocado alone’
ímígóy-íjééne	‘the ropes on their own’
ékérééngé chééne	‘the leg on its own’
éng’óómbé yééne	‘the cow by itself’
zing’óómb-ízyééne	‘the cows on their own’
orómé ¹ m-úrweéne	‘the flame on its own’
úvwóóv-úvwééne	‘the mushroom on its own’
kodéé ¹ k-úkwééne	‘cooking alone’

hámgérá hééne	‘I saw at the river alone’
kumée ¹ s-ókwéene	‘I saw on the table alone’
mɔnyúú ¹ mb-ómwéene	‘in the house alone’

The second agreement-irregularity is found in the stem *-éng'iné* ‘alone’, which usually takes the agreement /ye-/ in cl. 1, though regular /ɔ/ is also attested.¹³

msyaará weeng'iné	‘alone cousin ’	1
ndó yéeng'iné	‘alone person ’	1
ndó wée'nyiné	‘alone person ’	1
múdótó yéenyiné	‘alone infant ’	1
mórimí yéenyiné	‘alone farmer’	1
vakáá ¹ ná véé'nyiné	‘alone girls ’	2
várimí vóonyiné	‘alone farmers ’	2
mógérá gwéenyiné	‘alone river ’	3
mígérá jéenyiné	‘alone rivers ’	4
ddó ¹ shí lyée'nyiné	‘alone mud ’	5
mábwóó ¹ ní géé'nyiné	‘alone potatoes ’	6
gekóó ¹ ndó chéenyiné	‘alone monkey ’	7
víbúrúbúrú vyéenyiné	‘alone butterflies’	8
éngó yéenyiné	‘alone leopard ’	9
zínzó zyéenyiné	‘alone leopards ’	10
róbáá ¹ ng'á rwéenyiné	‘alone panga ’	11
kakóózá ¹ kééng'iné	‘uncle _{-dim} alone’	12
kanyíí ¹ ngó kéenyiné	‘only cooking pot _{-dim} ’	12
vósérá vwéé'nyiné	‘alone porridge ’	14
vwúú ¹ má vwéenyiné	‘alone fork-hoe ’	14
kodéé ¹ ká kwééng'iné	‘cooking alone’	15
hanyúú ¹ mbá hééng'iné	‘near the house only’	16
gosáá ¹ rá gwééng'iné	‘only a splinter _{-aug} ’	20

1.4. Non-Agreeing NP modifiers

As noted in X, numerals higher than 5 do not agree in class with the head nouns. Some examples of non-agreeing post-nominal modifiers are listed here.

ki: what, which

épnégéró ki	‘what beer pot’
ridá ¹ vángíró ¹ kí	‘what badly-made pot’
mó ¹ yáá ¹ yí ki	‘what boy’
kíbóróbórú ki	‘what butterfly’

¹³ The stem is also attested as [-enyine], sometimes both, depending on the speaker. Forms like [mwáá¹ná wóóng'iné] ‘child alone’ have been attested but are rare.

káándí: additionally, again

mbánó káándí

‘a knife additionally’

éng’óómbé káándí

‘a cow additionally’

mwáá¹ ná káándí

‘child additionally’

kórí: like

aváána kórí ¹yává

‘children like this’

risyáámógómá kórí iri

‘a gecko like this’

ríndó kórí marova

‘person like Marova’

mkáá¹ ná kórí ¹wóó¹ mányí

‘a girl like the one you know’

vosérá kórí ¹vwává¹ mípáji

‘porridge like we cooked’

vuza: ‘just’

mwáána vuza

‘just a child’

mbano vuza

‘just a knife’

vaandũ vuza

‘just people’

meeyo vuza

‘just a broom’

kí¹ fóóyó vuza

‘just a rabbit’

engo vuza

‘just a leopard’

rokaayiro vuza

‘just a scythe’

vuchíma vuza

‘just ugali’

There are also non-agreeing adjectives, derived from Swahili:

ivikóómbé sahííhi

‘correct (number of) cups’

irijí¹ bú sáhíhi

‘correct answer’

kibá¹ g-áátáári

‘dangerous cat’

imbwá¹ átáári

‘dangerous dog’

aváándó á¹ táári

‘dangerous people’

omóónd-áá¹ táári

‘dangerous person’

ekerééngé sá¹ bíiti

‘firm leg’

ómóóndó sá¹ bíiti

‘firm person’

imbú¹ rí háláali

‘lawful goat’

aváándó há¹ lááli

‘lawful people’

omwíí¹ gízí¹ háláali

‘lawful teacher’

endé¹ vé kámííli

‘proper chair’

ómbánó kámíli

‘proper knife’

ímbánó kámíli

‘proper knives’

irígómyá¹ táyáari

‘ready banana’

omóóndó tá¹ yáari

‘ready person’

amóóngu tayáari

‘ready pumpkin’

ovuchíma tayáari

‘ready ugali’

ómbánó sá¹ láama

‘safe knife’

2. Pronouns

What do we really mean by “pronoun”, anyway?

ínzì ‘me’

íyí ‘you’

kónyí ‘us’

mónyí ‘2p’

ínzì 'ngórí 'ómódógá I bought the car

vákórórí 'kónyí they saw us

There is no specifically pronominal form for 3rd person, instead, an appropriate demonstrative (oyu, oyo, ora) is used.

3. Subject and Object Verbal Agreement

3.1. SP

The basic subject prefixes are most clearly seen in a tense such as the hodiernal future which position a consonant-initial prefix after the SP.

n-da-gwa	1s will fall	
ku-ra-gwa	1p will fall	
o-ra-gwa	2s will fall	
m-ra-gwa	2p will fall	
a-ra-gwa	cl.1 will fall	
va-ra-gwa	cl.2 will fall	
gɔ-ra-gwa	cl.3 will fall	
ji-ra-gwa	cl.4 will fall	
ri-ra-gwa	cl.5 will fall	llagwa
ga-ra-gwa	cl.6 will fall	
ki-ra-gwa	cl.7 will fall	
vi-ra-gwa	cl.8 will fall	
i-ra-gwa	cl.9 will fall	
zi-ra-gwa	cl.10 will fall	
ro-ra-gwa	cl.11 will fall	llagwa
ka-ra-gwa	cl.12 will fall	
to-ra-gwa	cl.13 will fall	
vo-ra-gwa	cl.14 will fall	
ku-ra-rorwa	cl. 15 will be seen	
ha-ra-rorwa	cl. 16 will be seen	
ku-ra-rorwa	cl. 17 will be seen	
mo-ra-rorwa	cl. 18 will be seen	

The cl. 1 prefix /a-/ has the phonologically-conditioned allomorph [y-] when it comes immediately before a vowel, as discussed in X. Two examples are before the past tense

prefix /-a-/ which appears in the remote and immediate past (SP-a-STEM-a, SP-a-ka-STEM-a) and hesternal perfective (SP-a-STEM+perf), and before vowel-initial roots in X tense.

kwááváriza	/kʊ-á-váriza/	we counted rem
wááváriza	/ʊ-á-váriza/	2s counted rem
mwááváriza	/mʊ-á-váriza/	2p counted rem
yááváriza	/a-á-váriza/	he counted rem
yááhííza	/a-á-hííza/	he hunted
yííta	/a-á-íta/	he killed
wáákárya	/ʊ-á-ká-rya/	you have eaten (immed past)
kwáákáróma	/kó-á-ká-róma/	we have bitten
yáákárya	/a-á-ká-rya/	he has eaten
kʊ-riizáa		we are eating
ʊ-kináa		2s are playing
a-liizáa		he is eating
a-kináa		he is playing
a-kɪ-fó ¹ nyíírízáa		he is smelling it
y-eejáa		he wants
y-iitáa		he is killing
y-aatáa		he is doing surgery
y-eerémáa		he is floating

The 1s SP has a morphologically-governed allomorph [nd] before the past tense prefix /a/ in the immediate past (both variants), remote past, and hesternal perfective.¹⁴

kw-aa-ká-ryâ	we just ate
kw-áa-ká-rya	we have eaten
nd-aa-ká-ryâ	I just ate
nd-áa-ká-rya	I have eaten
kw-aa-ríi	we ate
nd-aa-ríi	I ate
kw-áá-rya	we ate (rem.)
nd-áá-rya	I ate (rem.)

The form of the SP in main and relative clauses is almost identical, segmentally, but there are complications in the form of the 1s, 2s and cl. 1 SP in relative clauses. First, instead of /a/, the cl. 1 SP may be /ʊ/.

mogóye gwayaaza uróúngíkízi ‘the rope that he will untangle’

¹⁴ Before other vowels, y is inserted between the 1s SP or OP.

voséra vwayaaza oyóómbóore	‘the porridge that he will over-pour’
kirihá choogotízi	‘what did he lose?’
uuzaa	‘the one who will come’
oká ¹ ráánjí	‘the one who fried’
okó ¹ róri	‘the one who coughed’
omósááz-odééchi	‘the man who cooked’
otáazaa	‘the one who won’t come’
omóóndu waakohaanda	‘the person who is stuck’

This option is rarely exercised, and tends to only appear in subject-relative forms. As the following examples show, in object relative clauses the SP is generally the same in form as it is in main clauses.

kindíkí cha yaakáséé! mbéllá	‘what did he weed?’
vwahá vwa vaakáséé! mbéllá	‘who did they weed for?’
omwáánwa wa ndaakávé! gá	‘the child which I just shaved’
ɪná!má yáá ndééká	‘meat which I will cook’
ɪná!má yá vádééká	‘meat which they will cook’
ɪná!má y- óódééká	‘meat which you will cook’
uvó!shí vwá ndíkóshéera	‘the flour which I will grind for you’
vwahá wa waakóvóha	‘who did you tie up?’
míndu wa kwaakotóóngaminya	‘person who we inverted’
ikitábu ch- orirora ^o	‘the book which you will see’
omóóndu wa korikakooṅa ^o	‘the person that we will help’
vwahá wa varigórizira	‘who will they sell to?’

There is a systematic (quasi)-exception pertaining to the 1s and 2s SP. When the verb is in a subject relative clause and the subject is 1s or 2s (e.g. ‘I who am speaking’), the SP has the form /u/.

inz- órímaa	‘I who am plowing’
yiv- órímaa	‘you who are plowing’
inz- óm-ó! órímí	‘I who will plow’
yiv- óm-ó! órímí	‘you who will plow’
yiv- óríma	‘you who will plow’
inz- ódééchi	‘I who cooked’
inz- ówáádééka	‘I who cooked’
inz- ówááríma	‘I who plowed’
yiv- ówááríma	‘you who plowed’
ínz- ówáárééva	‘I who am drunk’
ínz- ówáá! dééchi	‘I who cooked’
yiv- ówáá! dééchi	‘you who cooked’
ínz- óké! végá	‘I who am still shaving’
yiv- óké! végá	‘you who are still shaving’

From examples like *ínz-ówáádééka*, *yív-ówáá!dééchi* we note two occurrences of *o*, one which becomes [w] pursuant to Glide Formation, and another copy immediately before that. Two copies of the SP appear in *inz-óm-ó!órími*, one on the auxiliary *maa* and one on the main verb – this is a regular feature of the crastinal future, that both verbs are subject marked. The explanation for this double-marking is not clear: it may be that one copy is the augment *o-* and the second is the actual subject prefix.

If the subject is 1p or 2p (‘We who are cooking’), the SP has the expected segmental form.

kónyí kórímaa	‘we who are plowing’
mónyí mórímaa	‘2p who are plowing’
konyí kó!máá kórímí	‘we who will plow’
konyí m!máá mórímí	‘2p who will plow’
kónyí kwááríma	‘we who plowed’
mónyí mwááríma	‘2p who plowed’
kónyí kwáárééva	‘we who are drunk’
mónyí mwáárééva	‘2p who are drunk’
kónyí kwááreeva	‘we are drunk’
kónyí kwáá!dééchi	‘we who cooked’
mónyí mwáá!dééchi	‘2p who cooked’
mónyí mké!véga	‘2p who are still shaving’
kónyí kóké!véga	‘we who are still shaving’

There is an additional complication regarding the 1s subject prefix in negative relative verbs, that the negative prefix *-ta-* may be duplicated after /N-/. For example, in the *-aka-* recent past, /-ta-/ stands between the SP and /aka/, but after /N-/ we find /ta-ta-/.

ínáma ya kutaakádééka	‘the meat which we didn’t just cook’
omóóndu ataakádée ¹ ká	‘the person who didn’t just cook’
vwah-átaakádée ¹ ká	‘who didn’t cook?’
ovúchíma vwa ndataakáryá	‘the ugali that I didn’t just eat’

Tone issues

Similar examples in the remote past are seen below.

omóóndu w-otáátóúnga	‘the person who you didn’t pay’
omóóndu wa kwatááhólla	‘the person that we didn’t hear’
omóóndu wa vatááyáánza	‘the person who they didn’t like’
ovúchíma vw-otóónoonya	‘the ugali that you didn’t mess up’
eléésoni ya mtáásóóma	‘the lesson that you pl didn’t learn’
otáádééka	‘the one who didn’t cook’
omóóndu wa ndatááróra	‘the person who I didn’t see’
omóóndu wa ndatáákóóna	‘the person who I didn’t help’

-bf-

kitábo chotaróra	the book which you will not see
eng'óomb-itagórizwa	the cow that will not be sold
ɪnóúm̩ba yoteeya°	the house that you won't sweep
mweene á!tágóra	the one who won't buy
rwá!tágóná	when he will not sleep

Generally impoverished

-cr-

omóónd-atá!m-áávégé	the person who will not shave
aváána vatamaa vadeeke°	the children who won't cook

really impoverished

-fn-

vwahá atakna	who won't play
aviígizi !vátamórómaa dáave	the teachers who are not (still?) speaking

-if-

vwah-átarideeká	who won't cook
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lots no data

-pf

<MF I wiped the hod/hest tag

-pg-

ɪnáma yakotakaraangizáa	the meat which we are not frying up
ndakóba mwáána átayíinzira	I hit the child who is not working
varasáa!mééhá vá!ndú vá!táKóchéé!rízá	they will forgive the people who are not greeting us
vwah-á!tá!górizáa	who isn't selling

Connectes to tense?

mwáána wa kutavegáa	the child who we are not shaving
mwáána waa ndakóónaa	the child who I am not helping
zing'óó!mbé zyá kútávárízaa	the cows that we are not counting

eng'óómbe ya kotaakohée	the cow which we didn't give to you
omóóndo w-otaarori°	the person who you didn't see
imbúri ya ndaatagurizi°	goat which I didn't sell

Argh, I don't trust my controls over this

3.2. OP

From korora 'to see'

n	kóó-n-dora	1s	
kʊ	ko-kó-rora	1p	
kʊ	ko-kó-rora	2s	
mʊ	kʊ-mó-rora	2p	kuńrora
ɪ	kw-éé-rora	refl	
mʊ	kʊ-mó-rora	cl.1	kuńrora
va	kʊ-vá-rora	cl.2	
gʊ	ko-gó-rora	cl.3	
ji	kʊ-jí-rora	cl.4	
ri	kʊ-rí-rora	cl.5	kóllora
ga	kʊ-gá-rora	cl.6	
ki	ko-ké-rora	cl.7	
vi	kʊ-ví-rora	cl.8	
gi	ko-gé-rora	cl.9	
zi	kʊ-zí-rora	cl.10	
ru	ko-ró-rora	cl.11	
ka	kʊ-ká-rora	cl.12	
tu	ko-tó-rora	cl. 13	
vu	ko-vó-rora	cl. 14	
kʊ	ko-kó-rora	cl. 15	
ha	kʊ-há-rora	cl. 16	
kʊ	ko-kó-rora	cl. 17	
mʊ	kʊ-mó-rora	cl. 18	
gʊ	ko-gó-rora	cl. 20	