

A grammar of Mankanya: An Atlantic language of Guinea-Bissau, Senegal and the Gambia Gaved T.J.D.

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Chapter 2 - Phonology

2.1 Introduction

This chapter gives a sketch of the phonology of Mankanya. It does not aim to be exhaustive, but rather to give a background so as to aid the reader of the later chapters.

Mankanya has 51 phonemes of which 38 are consonants (including 2 semi-vowels and their pre-nasalised equivalents) and 13 vowels. 22 of the 38 consonants are pre-nasalised.

The reasons for considering pre-nasals as consonants, rather than NC consonant clusters will be discussed later.

2.2 Phonemic tables

2.2.1 Consonant phonemes

	Labials	Apicals	Retro- flexes	Palatals	Velars
Voiceless	p	t	t	c	k
plosives					
Pre-nasalised	^m p	ⁿ t	ⁿ t		ηk
voiceless plosives					
Voiced plosives	Ъ	d		J	g
Pre-nasalised	^m b	ⁿ d		ⁿ t	ŋg
voiced plosives					
Nasals	m	n		n	ŋ
Vibrants		r			
Pre-nasalised vibrants		ⁿ r			
Fricatives	f	θ	ş		h
Pre-nasalised fricatives	^m f	ⁿ θ	ⁿ Ş		^ŋ h
Sonorants		1		j	w
Pre-nasalised sonorants		ⁿ l		лj	^ŋ W

Table 2.1: Consonant Phonemes

The phoneme /c/ is very rare in Mankanya. I have found it only in ideophones and in a few others word which are possibly borrowed.

```
[ke'ceh] /ke'ceh/ basket

[bə'cekwal] /bə'cekwal/ trousers

[o'ce:lo] /o'ce:lo/ sardine

[pə'cewrən] /pə'cewrən/ basket
```

Trifkovič (1969) agrees that /c/ is rare, and lists two other words with this phoneme. However, in my data these words are pronounced differently.

```
[ne'ju:k] /ne'ju:k/ poor person (Trif: [ne'cuk]) [ke'kit] /ke'kit/ harvest (Trif: [ke'kic])
```

Despite its rarity, there are sufficient contrasts with similar sounds to prove that it is a separate phoneme (see section 2.3.3).

I have only found /s/ in borrowed words, so don't consider it a phoneme.

```
[s'kɔ:lɐ] /s'kɔ:lɐ/ school

[ŋ³ri:sijɐ] /ŋə'ri:sijɐ/ church
```

It's noticeable that some Mankanya, for example those born in Dakar, have a tendency to replace the sound $[\theta]$ with the sound [s]. This substitution may partly be explained by the influence of French and Wolof where the sound $[\theta]$ does not exist.

[meɟ kɐˈsʊpɐ]	instead of:	[me϶ keˈθυpe]	maize
[nɐˈseːk]	instead of:	[nɐˈθeːk]	the first

Trifkovič (1969) doesn't mention this sound in her study, maybe because she was exposed to fewer French or Wolof speaking Mankanya.

It is noteworthy that all the consonants except /c/ (and of course the nasals themselves) have a corresponding pre-nasal form. The reasons for considering these as unit phonemes, rather than a NC sequence are considered below in section 2.5.2.1. Trifkovič (1969, p. 19) says that /c/ can also be preceded by a nasal, but I have not found any examples, and so therefore have left that blank in the chart.

Trifkovič (1969) has the phonemes /t͡c/ (alveo-palatal voiceless affricate) and /c̄/ (alveo-palatal voiceless affricate) where I have /t̄/ (retroflex voiceless plosive) and /s̄/ (retroflex voiceless fricative). These sounds are phonetically close. Note also that the phoneme /t̄/ has a tendency to be realised as the afficate [t͡s] at the end of a word. (See section 2.4 Allophones and their distribution).

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Note that the apical plosives /t/ and /d/ are realised as dentals – [t] and [d], whereas the other apical consonants, /n/, /l/ and /r/, are alveolar.

2.2.2 Vowel Phonemes

	Front	Central	Back
High	i i:		o o: u u:
Mid	e e:	ə	0 0:
Low		.લ ક	

Table 2.2: Vowel Phonemes

Trifkovič (1969, p. 22), considers that /e/ has two allophones [e] and [ɛ], the first in word final positions, and in the interior of monosyllabic roots, the second in all other positions. I did not find examples that showed this distribution, but rather found that the phoneme was realised somewhere between the two cardinal positions.

Trifkovič (1969) also found two allophones of /o/ - [o] and [ɔ]. She found [o] in closed monosyllables, and [ɔ] elsewhere. As with [e] and [ɛ] above my data suggest that there is just one sound somewhere between the two.

I have decided to use the closed symbols to represent the two phonemes, that is /e/ and /o/.

On the other hand Trifkovič (1969) doesn't recognise the existence of the phoneme $/\upsilon$ / or it's long version $/\upsilon$:/. However, I have found words which contrast these sounds. See section 2.3.5.

Some speakers of Mankanya claim that there is similar distinction with front vowels presumably including /I/. I have not had the opportunity to gather any data that might prove this.

There is no vowel harmony in Mankanya, like the other members of the Manjaku family, but unlike the Jola languages which make up most of the rest of the BAK family.

2.2.3 The mid central vowel /ə/ and [P] prefixes

In Mankanya, nouns and verbs often have prefixes of the form [P^a] (where 'P' is a stop or a nasal). The [^a] is not very perceptible and Trifkovič describes it as a pause (Trifkovič, 1969, p. 34). In addition it is not clear whether this short sound always has the same quality as the vowel [a]. Trifkovič considers it as an indeterminate vowel (Trifkovič, 1969, p. 34).

[p°komel]	central pillar of a house
[m ^{əl} jik]	it's hot
[b ^{ə'} tək]	mortar
$[\mathfrak{y}^{\vartheta'}de]$	we eat
[dəˈjɐ]	I'm going

It is difficult to find true contrasts between $[P^{\circ}]$ and $[P^{\circ}]$, because $[P^{\circ}]$ is normally found at the beginning of words and unstressed. $[P^{\circ}]$ can be found initially in some inflected words, but it is then also stem initial and stressed.

```
['pə.nen] take out!
['bə.ben] wrap!
['kə.ben] enter!
```

[Pə] can also be found in some non-initial non-stressed contexts:

```
[kaˈnθi:.nta.məş] folk story
[pəˈnde.mənt] tongue
[ɐˈbə.rəs] he grinds
```

Note that an unstressed [ə] can sometimes be deleted and a word resyllabified, for example through derivation.

```
[e.'jə.məş] he extinguishes (e.g. the fire)
[be.'jəm.şe] (e.g. the fire) extinguishes itself
```

The minimal vowel sound in $[P^{\mathfrak d}]$ can also be deleted where the plosive is nasal, and the initial consonant of the root is homorganic

```
[^{\eta}ko] animals [^{\vartheta}] + [ko] [^{m}bos] ground [^{m\vartheta}] + [bos]
```

I will therefore interpret [$^{\circ}$] as a preaccentual realisation of $/\partial/$.

Though in this chapter I have written this realisation of /ə/ this is not the orthographic convention used in other chapters, where it is omitted.

2.3 Contrasts

The following sections give illustrative contrasts for the above phonemes.

A common contrast for the prenasal is found in the form of the verb found in relative clauses, where the initial consonant of the root is prenasalised. Where possible I have tried to find other contrasts.

2.3.1 Labials and Dentals

```
/p/
• /b/
                                                            they (C1P) are
/ow<sup>'</sup>aq\
              it (c4s) is
                                             /ow<sup>'</sup>9d/
              to refuse
                                             /pəˈbok/
                                                           to climb a palm
/pə'pok/
              he dug
                                             /eˈkib/
                                                           he cut
/eˈjip/
   /m/
/pəˈput/
              to rot
                                             /pəˈmʊt/
                                                            cotton
              to bite
                                             /mst<sup>l</sup>eq/
                                                            to be hard
/qst<sup>l</sup>eq/
• /f/
/pə<sup>'</sup>pən/
              to go out
                                             /pəˈfən/
                                                           to count
                                             /u'le:f/
/u'le:p/
              hoe
                                                            body
    /w/
              c4s object pronoun
                                             /wul/
                                                            c2s object pronoun
/pul/
              to paddle
                                             /tsw<sup>l</sup>eq/
                                                            to let drop
/pəˈpɐt/
              shelter
                                             /bəˈkow/
/bəˈkup/
                                                           head
    /^{m}p/
              ear lobe
                                             /υ'le<sup>m</sup>p/
/pəˈlep/
                                                            work
/e'puluŋ/
              which he pulled
                                             /e<sup>lm</sup>puluŋ/ he who worked
/mp/
    /p/ - see /p/ above
    /m/
                                             /pəˈlem/
/pəˈle<sup>m</sup>p/
              to work
                                                            to sit on an egg
/ke<sup>lm</sup>pob/ chickenpox
                                             /dom<sup>'</sup>gn/
                                                           sponsor
/b/
    /^{m}b/
                                             /pə<sup>lm</sup>ben/ soap
/nsd'eq/
              to touch
             which he touched
                                             /e<sup>lm</sup>benun/ he who touched
/e'benoŋ/
    /p/ - see /p/ above
    /f/
/ʊˈbeːrʊ/
              butterfly
                                             /v'fe:rv/
                                                           market
/pəˈməb/
              to carry
                                             /pəˈməf/
                                                           to wake early
```

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/w//bi//ne'kob/	c5s genitive drummer	/wi/ /nɐˈkow/	c2s genitive clairvoyant
$/^{m}b/$			
• /b/ - s	see /b/ above		
• /m/ /ke ^l mboŋ/	nape of neck	/ke'mul/	firewood

Chapter 2

2.3.2 Alveolars and Retroflexes

/θ/

/ 0/			
• / ⁿ θ/ /e ^l θe:nuŋ/ /be ^l dəθ/ <i>tl</i>	which he plays ney close	/ɐʰθeːnuŋ/ /bɐˈdəʰθ/	he who plays they brush
/t/ /pəˈdəθ/ /pəˈtum/		/pəˈdət/ /pəˈθυm/	
• /t/ /pəˈkeθ/ /υˈθɐɲ/		/pəˈket/ /uˈtɐɲ/	
• /d/ /pəˈθeːm/ /υˈkɐθ/	to answer bird	/pəˈdeːm/ /ʊˈɟɐd/	
\n/ \m:96p\ed\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	he answers to close	/ɐˈneːm/ /pəˈdən/	
• /r/ /pəˈɡɐθ/	to vomit	/pəˈgɐr/	to destroy
• /ş/ /pəˈfoːş/ /pəˈfɐːθ/	to question the dead to be white	/pəˈşoːş/ /pəˈfɐːş/	
\longright \rangle \langle \longright \rangle \longright \rangle \longright \rangle \r		/pəˈloh/ /pəˈfɐːl/	to carry on the side to slit the throat

 $/^{n}\theta/$

• $/\theta/$ - see $/\theta/$ above

• /n/ /pəˈnθυk/ /bəˈʒənθ/ /uˈtenθ/	crowd chest sorrel seed	/ʊˈnʊk / /nɐˈɟən/ /bəˈten/	flu human appearance
/t/			
/nt//e'tepuŋ//pə'gut/	who he shoots to mark out	/e ⁱⁿ tepuŋ/ /pə ⁱ gu ⁿ t/	the one who shoots to fight
• /θ/ - se	ee /θ/ above		
/t/ /pəˈtuh/ /pəˈfət/	to close to peel	/pəˈtuh/ /pəˈfət/	
/d/ /pəˈfɐt/ /nɐˈte/	to boil you (pl) hear	/pəˈfɐd/ /nɐˈde/	to whip you (pl) eat
• /n/ /yəˈti:mɐ/ /tebˈeq/	to wear uproot	/pəˈniːmɐ/ /pəˈdən/	to marry to be dense
/r/ /pəˈfət/	to peel	/pəˈfər/	to spend the night
<pre>• /ş/ /pə¹ton/ /pə¹tot/</pre>	to urinate to fall	/pəˈson/	to grind to select
/l/ /pəˈfɐt/ /pəˈtih/	to boil to groan	/pəˈfɐl/ /pəˈlih/	to cut to roar
/nt/			
• /t/ see	/t/ above		
	take a detour (an) elder	/pəˈbɐn/ /non/gn/	to touch friend
	who he helped	/ɐ ^{ɪո} ʈəŋkuŋ/	he who helped
• $/\theta/$ - see $/\theta/$ above			

• /t/ - see /t/ above

. /1/			
<pre>/d/ /pə¹tu/ /ij¹sd/</pre>	to put they run	/pəˈdu/ /bɐˈdi/	to call they accept
• /n/ /'tenen/	offer!	/'nenen/	give!
/r//pəˈkuten//pəˈfət/	to galvanise (someone) to cover	/pəˈkʊrɐn/ /pəˈfər/	commission to pass the night
• \\$\/ \downarrow \po\ \downarrow \po:\{\}	fruit (sense: children) malice	/mbos/ /pəˈɟoːs/	ground ember
• /l/ /pəˈfɐt/ /ijˈeq/	fill to the brim run	/pəˈfɐl/ /pəˈli/	cut moon
/ ⁿ t/			
• /t/ - se	e /t/ above		
• /n/	•		
/u ^l Jo ⁿ t/ /ksj ⁿ tek/	cold (n) metal	/v'jon/ /pə'nɐk/	duration daytime
/ d /			
• /nd/ /keldun/	altar	/bəˈndʊŋ/	piece of bread
• /θ/ - se	ee /θ/ above		
• /t/ - se	e /t/ above		
• /t/ - se	e /t/ above		
/n/ /pəˈdug/ /pəˈbɐd/	to make a noise to be low	/pəˈnʊg/ /pəˈbɐn/	to buy to arrive
/r/ /pəˈbuud/	to punch hard	/pəˈbuʊr/	to escape
• /ş/ /pəˈled/	to be completely full	/pəˈleş/	to remember
• /l/ /pəˈdəmen,	/ to praise	/pəˈləmɐn/	door

```
/^{n}d/
• /d/ - see /d/ above
• /n/
/i¹nduk/
             stick for hitting
                                          /i'nuk/ you (sg) touch with the head
/n/
• /\theta/ - see /\theta/ above
   /t/ - see /t/ above
   /t/ - see /t/ above
   /d/ - see /d/ above
  /r/
/nst<sup>l</sup>eq/
                                          /rst<sup>l</sup>eq/
                                                        to spread
             to attach
                                          /dgr'o/
                                                        Arabic (language)
/dau<sub>n</sub>o/
            flycatcher (bird)
• /s/
/mbon/
             thinness
                                          /mbos/
                                                        ground
• /1/
                                          /pəˈli:m/
                                                        to be lost
/pəˈni:m/
             to marry
/ke'meen/ burial place
                                          /ke'meel/
                                                        liquid
/r/
   /nr/
/e'retenun/ that he scattered
                                          /e<sup>in</sup>retenuŋ/ he who scattered
   /\theta/ - see /\theta/ above
   /t/ - see /t/ above
   /t/ - see /t/ above
   /d/ - see /d/ above
    /n/ - see /n/ above
   /ş/
                                          /pəˈsub/
/dsr<sup>l</sup>eq/
             to search
                                                        to rain
• /1/
/pəˈrɐtɐn/ to spill
                                          /nstsl'ed/
                                                        to reheat
```

/v¹fo:l/

hedgehog

/v'fo:r/

/nr/

gun powder

• /r/ - see /r/ above

/n/
/e'nretenon/ he who scattered /e'netenon/ that he raised
/\$/
/n\$/
/e'selon/ that he thought /e'n\$elon/ he who thought

- $/\theta/$ see $/\theta/$ above
- /t/ see /t/ above
- /t/ see /t/ above
- /d/ see /d/ above
- /n/ see /n/ above
- /r/ see /r/ above
- /1/

/ns/

- /ş/ see /ş/ above
- /n/

/ e^{\ln} so:ruŋ/ he who hated / e^{\ln} no:ruŋ/ (one) who he wearies /1/

• /ⁿl/

/e'letenun/ that he reheats /e'nletenun/ he who reheats

- $/\theta/$ see $/\theta/$ above
- /t/ see /t/ above
- /t/ see /t/ above
- /d/ see /d/ above
- /n/ see /n/ above
- /r/ see /r/ above
- /ş/ see /ş/ above

/ⁿ1/

- /l/ see /l/ above
- /n/

/ e^{in} letenug/ he who reheats / e^{i} netenug/ that he raised

2.3.3 Palatals

/c/

Remember that this phoneme is very rare. Therefore these contrasts are only analagous ones.

```
• /1/
/ke<sup>'</sup>ceh/
                                             /v<sup>1</sup>jenel/
              basket
                                                            window
• /n/
                                             /neˈpebəs/ you (pl) eat breakfast
/ke<sup>'</sup>ceh/
              basket
• /j/
/ke'ceh/
              basket
                                             /nɐˈjeŋ/
                                                            you (pl) watch over
/ɟ/
• /c/ - see /c/ above
• /<sup>n</sup><sub>J</sub>/
/ɐˈjebuŋ/
              who he healed
                                             /e<sup>ln</sup>jebuŋ/ he who healed
• /n/
                                             /noten/
/nsjot<sub>i</sub>/
              be naughty!
                                                            bring!
• /j/
/ˈjuken/
              learn!
                                             /ˈjuken/
                                                            be beautiful!
/<sup>n</sup><sub>1</sub>/
• /ɨ/ - see /ɨ/ above
• /n/
/məˈɲɟel/
                                             /ke<sup>'</sup>nen/
              darkest night
                                                            hand
/j/
• /c/ - see /c/ above
   /ɟ/ - see /ɟ/ above
• /n/
/nɐˈjeŋ/
              you (pl) watch over
                                             /ke'nen/
                                                            hand
• /<sup>n</sup>j/
```

/ɐˈɲjiluŋ/

he who sent

• /j/ - see /j/ above

who he sent

/eˈjiluŋ/

 $/^{n}j/$

	he's not got well he didn't sing	/kɐˈɲen/ /kɐˈɲeːn/	
/ n /			
• /c/ - se	ee /c/ above		
• / j / - se	ee /ɟ/ above		
• /j/- see	e /j/ above		
2.3.4 Ve	elars		
/g/			
• /"g/ /e'go:tuŋ/	who he scratched	/ʰgʊːʰt/	he who scratched
/k/ /'guten/ /i'dug/	fight! you make a noise	/ˈkʊtɐn/ /iˈdʊk/	uproot! you(sg) leave (something)
/ŋ/ /ɐˈgut/ /bɐˈnug/	he fights they buy	/ɐˈŋʊp/ /bɐˈnʊŋ/	he grumbles they guess
• /h/ /'go:ten/	scrape!	/ˈho:ten/	hollow out!
$/^{\eta}g/$			
• /g/ - se	ee /g/ above		
• /ŋ/ /kɐ ^{lŋ} gʊri/	bracelet	/pəˈŋʊbɐn/	to mock with a gesture
/k/			
	blow (wind) that he returns	/pəˈjoːºk/ /ɐˈʲʲkakuŋ/	to wait he who returns
• /g/ - se	ee /g/ above		
• /ŋ/ /ɐˈnuk/ /pəˈkɐw/	he hunts to reap	/ɐˈnuŋ/ /pəˈŋɐw/	he guesses to begin to ripen
• /h/ /ʊˈkʊb/ /nɐˈyok/	crab rich person	/v'hub/ /'nɐ'yok/	bundle of straw victor

```
/<sup>ŋ</sup>k/
• /k/ - see /k/ above
• /ŋ/
/pəˈniːʰk/ to look everywhere
                                       /pəˈniːŋ/ tooth
             to be bitter
                                        /pəˈdeŋ/ to stir
/pəˈrɐŋk/
/ŋ/
• /g/ - see /g/ above
   /k/ - see /k/ above
• /h/
/pəˈŋɐːb/
            to steer
                                       /d:sd<sup>'</sup>eq/
                                                     to open one's mouth
/h/
• /g/ - see /g/ above
• /k/ - see /k/ above
• /ŋ/ - see /ŋ/ above
• /"h/
/e'ho:ron/ that he cries loudly
                                       /e<sup>lŋ</sup>hu:ruŋ/ he who cries loudly
/<sup>ŋ</sup>h/
• /h/ - see /h/ above
• /n/
/e<sup>iŋ</sup>hu:ruŋ/ he who cries loudly
                                       /e'no:ruŋ/ (one) who he wearies
2.3.5 Vowels
/i/
• /i:/
/pəˈtib/
            to cut
                                        /pəˈti:m/
                                                     horn
/pəˈtib/
                                        /pəˈni:m/
            to cut
                                                     to marry
• /e/
             to bend over
/pəˈɨiŋ/
                                       /pəˈjeŋ/
                                                     to be bow-legged
                                       /υˈlel/
/υˈlil/
             good (adj)
                                                     yellow (adj)
• /ə/
                                        /pəˈdə.nen/ to make watertight
/pə<sup>'</sup>di.nen/ to agree
```

/pəˈtu/

to put

• /u/ /pəˈti/

to run

• /ʊ/ /iˈko/ /pəˈɟiŋ/	things to bend over	/ʊˈko/ /pəˈɟʊŋ/	thing to cook
/e/			
• /e:/ /kɐˈɲen/ /pəˈdet/ /bɐˈten/	hand to hold they look	/kɐˈɲeːn/ /pəˈteːt/ /bɐˈteːr/ <i>the</i>	five foyer y understand each other
• /i/ - se	ee □/i/□above		
/ə/ /pəˈdet/ /pəˈdem/	to hold to capture	/pəˈdət/ /pəˈdəm/	to uproot to grow
• /ɐ/ /pəˈdet/ /pəˈten/	to hold to look at	/pəˈdɐt/ /pəˈtɐn/	to choose to delay
/g/			
• /e:/ /pəˈdɐŋ/ /msnˈeq/	to disturb to flee	/pəˈdɐːŋ/ /pəˈnɐːm/	to be smooth to resemble
• /ə/ /pəˈdɐt/ /iˈtɐl/	to choose ropes	/pəˈdət/ /iˈtəl/	to uproot hides
• /e/ - s	see ⊈e/□above		
• /o/ /pəˈkab/ /ʊˈban/	shelter arrival	/pəˈkob/ /ʊˈbon/	to hit famine
/o/			
• /o:/ /ɐˈbot/ /pəˈyok/	he then did to be rich	/ɐˈboːt/ /pəˈyook/	he sucks to blow (wind)
• /ə/ /pəˈmob/ /pəˈjom/	to catch to stink	/pəˈməb/ /pəˈɟəm/	
• /e/ - se	ee /ɐ/ above		
• /u/ /pəˈɟok/	to become engaged	/pəˈɟuk/	forehead

• /u/ /pəˈdom/ to attach /pəˈdo/ to do	/pəˈdʊm/ /pəˈdʊ/	
/u/		
/u://pəˈjut/ to bend down/pəˈjut/ to bend down	/pəˈpuːt/ /pəˈjuːɟ/	to spit to show
• /o/ - see /o/ above		
 /u/ /pəˈʃuk/ forehead /i/ - see /i/ above 	/pəˈɟʊk/	to teach
• /ə/ /pəˈtup/ speak	/pəˈtəp/	to pass
/υ/		
• /ʊː/ /pəˈɟʊk/ to teach	/pəˈɟʊːk/	poverty
• /o/ - see /o/ above		
• /u/ - see /u/ above		
• /i/ - see /i/ above		
• /ə/ /pəˈlut/ to jump	/pəˈlət/	to sew
/ə/		
• /e/ - see /e/ above		
• /e/ - see /e/ above		
• /o/ - see /o/ above		
/i:/		
• /i/ - see /i/ above		
• /u:/ /pəˈfiːt/ to illuminate	/pəˈfu:t/	to blow
• /ʊː/ /pəˈdiːk/ to refuse to respond	/pəˈɟʊːk/	poverty
/e:/		
• /e/ - see /e/ above		

• /i:/ /pəˈleːk/ /pəˈmeːr/	forest to get to know someone	/pəˈliːk/ /pəˈmiːr/	
• /e:/ /pəˈne:m/ /υˈθe:k/		/pəˈnɐːm/ /υˈθɐːk/	to resemble country
, -, -	ee /ɐ/ above ee /eː/ above		

• /0:/

/pəˈmɐːk/ to be ill /pəˈmoːk/ to embrace /kɐˈpɐːm/ ignorance /kɐˈpoːm/ bread

/oː/

- /o/ see /o/ above
- /e:/ see /e:/ above
- /u:/

/pəˈgoːt/ to peel /pəˈpuːt/ to spit /pəˈhoːt/ to shrug /pəˈpuːt/ to spit

• /uː/

/ˈgoːten/ scratch! /ºgoːnt/ biceps /ˈbˈjoːt/ evilness /pəˈjuːk/ poverty

/u:/

- /u/ see /u/ above
- /o:/ see /o:/ above
- /U:/

As these two phonemes are rare it's difficult to find contrasts.

• /i:/ - see /i:/ above

/v:/

- /u/ see /u/ above
- /oː/ see /oː/ above
- /u:/ see /u:/ above
- /iː/ see /iː/ above

As noted above the vowel /ə/ is unique in several ways. Firstly it has no long counterpart, but it has a preaccentual realisation of [*]. It is also susceptible to deletion in unstressed positions. This is particularly noticeable with the addition of successive suffixes. For example:

```
/pbərəş/+/e/ → /pbərşe/
/phe:bəş/+/e/ → /phe:bəşe/
It is also susceptible to assimilation:
/eje / +/ənt/ → /eje:nt/
```

2.4 Allophones and their distribution

I have in my data the sound [3] which I analyse as an allophone of /e/because it is only found in closed syllables, either in penultimate or final position. It is always in free variation with [e]. [e] is found in all positions.

Note that I have decided to consider the sound [s] as an allophone of the phoneme $[\theta]$ (see the discussion in section 2.2.1). It is in free variation with $[\theta]$ for Mankanya speakers who are fluent in major European languages (e.g. French, English or Portuguese).

The phoneme /t/ has two allophones. At the end of a word it is often pronounced as an affricate [t§]:

```
[pəˈlemənts] /pəˈlemənt/ to swim
[neˈpots] /neˈpot/ child
```

whilst in every other position it's realised as /t/:

Note that stops are normally unreleased before a pause.

2.5 Interpretation

2.5.1 Interpretation between vowels and consonants

The consonants /j/ and /w/ appear intervocalically as well as at the beginning of a word or stem, preceding a vowel, or word finally following vowel. The corresponding vowels /i/, /u/ and /u/ appear in every other position:

[ˈ j oŋkɐn]	[/ˈjo.ʰkɐn/]	CV.CVC	wait!
[kɐˈ j eːh]	[/kɐˈ j e:h/]	CV.CVC	song
[d³¹ j ɐ]	[/dəˈ j ɐ/]	C.CV	I'm going
[ʊˈpi]	[/ʊˈpi/]	V.CV	goat

2.5.2 Interpretation between units and sequences

2.5.2.1 Prenasals

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As was stated above, all the consonants in Mankanya can be prenasalised. These could be interpreted as units, which would give 16 extra phonemes, or as sequences that would lead to the introduction of 3 new syllable patterns – NCV, NCVC, and CVNC.

Each prenasal can be found at the beginning of a word, and there are many examples where a prenasal crosses a morphological boundary:

[¹¹ko]	animals	vs.	[ʊˈko]	animal
[¹¹ki]	that I dance	vs.	[eˈki]	he dances
[nde]	that I eat	vs.	[iˈde]	you eat

The construction used in the last two examples can be found with almost all verbs. A nasal prefix is assimilated into the stem initial consonant to become a pre-nasal.

Not all prenasals can be found at the end of words - only prenasalised unvoiced oral stops /mp, nk, nt, nt/ and the prenasalised unvoiced interdental fricative /nt/.

```
/u'le<sup>m</sup>p/ work
/i'ni:<sup>n</sup>k/ you're searching everywhere
```

However, there is no restriction on simple consonants, e.g. /b/ or /g/

```
/e<sup>'</sup>jeb/ he's getting better
/ke<sup>'</sup>bi:g/fence
```

It should be noted that there is a difference between the nasal prefix N-which results in a prenasal consonant, and the $[\eta^{\circ}]$ prefix. For example

```
[^{\eta}ki] that I dance vs. [\eta^{\vartheta}ki] we dance
```

(There is sometimes assimilation of the $[\eta^{\circ}]$ prefix for some common words or in fast speech e.g. $[\eta^{\circ}]$ ko] \rightarrow $[\eta^{\circ}]$ animals)

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I will treat prenasals as units, e.g. [mp] as the single consonant phoneme /mp/ which is written as "mp" in the orthography.

2.5.2.2 Long vowels

There are never VV sequences where the two vowels are different, so I will treat all long vowels as units:

\jsaq'\	[j:ad]	CVC	women
/'gooten/	[ˈgoːtɐn]	CV.CVC	scratch!
/ˈtiini/	[ˈtiːni]	CV.CV	run!
/iid¹g\	[ɐˈbiː]	V.CV	he came

Some long vowels are the result of the addition of vowel suffixes to vowel final roots:

```
[e'bi] he's coming[e'bii] he came[e'je] he's going[e'jee] he's gone
```

2.5.3 Glottal stop

The glottal stop is not phonemic, but occasionally appears when there is a short vowel before a pause. There is one word where the glottal stop is found and that is the negative interjection:

2.6 Syllables

Syllables in Mankanya usually contain a vowel nucleus, though as shown above the preaccentual realisation of /ə/ is very short. The exception is the nominal prefix "m-". Often it can first analysed as part of the first phoneme in the stem:

"m-boş" /^mboş/ CVC ground

However, there is an allomorph "mn-", where I analyse it as a separate syllable.

"mn-tow" /m"tow/ C.CVC milk

Open syllables are the most frequent. Syllables that contain only a vowel are often found at the beginning of the word. Closed syllables are normally found at the end of the word. Syllabic consonants are only found at the beginning of the word.

Long vowels are attested in CV and CVC in all positions.

	Mono- syllabic words	Polysyllabic words							
Syllabic schema		First syllable	Mid-word	Last syllable					
CV	Yes	Yes	Yes	Yes					
CVC	Yes	Rare	Yes	Normal					
V	Yes	Frequent position	No	No					
С	No	Yes – followed by morpheme boundary	No	No					
VC	Yes	Very rare	Very rare	Very rare					

2.7 Word schemas

The phonological word is composed of one or more syllables. However, monosyllabic words are mostly grammatical function words. The syllables CV, CVC and VC can appear in any position. Syllabic C (/m/) only appears in word initial position, and syllable V normally appears word initially, and can be a monosyllabic word.

2.8 Occurrences and co-occurrence restrictions

All the consonants, including the prenasalised ones, but excluding /c/ and /pc/ (which are very rare) are attested word-initially. However, /c/ is attested root-initially. This implies that there is probably no restriction on word initial consonants.

All consonants are found word finally except /mb, nd, c, nc, nf, ng, nh, nj, nl, nr, nş, nw, ny/. As noted in section 2.5.2.1 the only prenasalised consonants found at the end of words are prenasalised unvoiced oral stops /mp, nk, nt, nt/ and the prenansalised unvoiced interdental /nt/.

Vowels only occur word initially as prefixes or as monosyllabic words. The vowels /e, u, i/ occur in this position as noun prefixes or affirmative verbal prefixes. Their long equivalents /e:, u:, i:/ occur in negative verbal prefixes. The vowel /o/ is sometimes found as a monosyllabic disjunctive particle. /e/ and /ə/ are never found word initially.

All the short vowels except /ə/ are found word finally. /e, υ , i, o, e/ are found word-finally in monosyllabic roots and words. /e, υ , i/ are found word finally as the result of suffixation. The long vowels /e:, υ :, i:, o:, e:/ are found in monosyllabic words as the result of the addition of the suffix /-i/.

Vowels are never found noun or verb root initially.

	i	e	ь	ә	О	υ	u	iː	e:	ıs	o:	U:	uː
Monosyllabic Word Initial	X		x		x								
Monosyllabic Word Final	x	x	x		x	x		x	x	x	x	x	
Polysyllabic Word Initial	x		x			x		x		x		x	
Polysyllabic Word Final	x		x			x							
Lexical Root Initial													
Grammatical Root Initial	x		х			х							

2.9 Interpretation

Unambiguous syllable schemas are CVC, CV, V, and VC:

ດ _ເ ຮ້ອງ	thought	V.CVC
kek	again	CVC
ke'toh	house	CV.CVC
nɐˈme	clairvoyant	CV.CV
υ'ko	animal	V.CV
un	1p independent pronoun	VC
ni	my mother	CV
i	genitive particle	V

2.10 Accent

Normally the accent is placed on the first syllable of the root.

2.11 Tone

Mankanya is not a tonal language. Some informants say that there is a grammatical difference in some sentences which are segmentally identical, which they say is tonal. However, my limited data on this does not corroborate this claim.