

Cwaya Phonology

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0. Introduction

Cwaya language is a Niger-Kordofanian (Heiban group) language spoken in Southern Kordofan in the Sudan. This language group lives in the area near Kadoogali. The language is spoken by about 10,000 people. The current write-up is based on linguistic studies by native speakers of the language for the purpose of deciding on a writing system for the language.

I. Consonants

The following consonants are found in Cwaya.

	Bilabial	Dental	Alveoloar	Palatal	Velar
Plosives	v̥	p	t̥	t̥	c
	vd	b		d̥	ɟ
Nasals		m		n̥	ɲ
Fricatives	v̥	f	s̥ʃ		χ
	vd	v	ð		
laterals			l̥		
Vibrants			r̥ɾ		
semi-vowels	w̥			y̥	

There appears to be length on alveolar plosives and nasals.

Distribution

The following data show where each of the consonants can occur in Cwaya.

	Beginning		Middle		End
p	peða	'white'	apá	'take'	-----
b	buðír'	'punish'	ábaðaboð nəbba	'lung' 'wings'	-----
f	fela	'pretty'	ləfora	'lizard'	-----
v	viði	'cut hair'	ávil	'shadow'	-----

m	məŋga múku	'sister' 'mole'	đima	'scorpion'	lóm	'fish'
w	wa	'wife'	ŋguwí	'that'	"áw	'how?'
đ	điju	'intestines'	xəđala	'nose'	-----	
t	ťala	'small goat'	lótar mérta	'baboon' 'horse'		tooth
t	ťuđa	'come out'	luđutam	'immature sorghum'	-----	
d	darnná	'squeeze'	xáđa	'near'	-----	
d	dužwa	'eight'	lodum	'star'	-----	
s	sé	'all'	udženësa ŋassa	'smell' 'bladder'	-----	
n	na	'and'	đémani	'leg'	dən	'house'
l	lé	'bone'	ləmláka	'hippo'	lal	'flies'
r	rə	'hands'	yáru	'skins'	rar	'ropes'
č	če	'head'	yaču	'hairs'	-----	
ʃ	ʃwaya	Tribe name	----	----	----	----
c	cán caan	'be quick' 'follow'	ŋercid xaceđa	'sesame' 'follow'	-----	
ž	žila	'cold'	lažořa	'hockey stick'	-----	
j	jin	'dogs'	léja	'egg'	ŋatjan	'illness'
y	yáču	'hairs'	sabáya	'maize'	-----	-----
ŋ	ŋin	'dog'	đeŋela	'tongue'	ŋolanj	'seeds'
k	kínnda	'crested crane'	sukkəl	'pumpkin'	-----	-----

g	ginná	'three'	ləgru	'chest'	-----	-----
x	xərɪn	'stomach'	maxo	'sew'	-----	-----

It was found that the *ʃ* only occurs before 'w' and is only found in two words in the language: *ʃwaya* 'tribal name', and *ʃwol* 'sack or casket' which is an Arabic loan word. Therefore, it does not seem advisable to have separate letter for this sound and 'c' will work for it. The intervocalic 'x' is voiced, but there is no contrast, so it will be written as 'x'.

II. Vowels

The following vowels are found in Cwaya.

i	u
I	o
e	ə
ɛ	ɔ
	a

Distribution:

The following data show where each of the vowels can occur in Cwaya.

Beginning		Middle	End	
i	ina	'mouth'	ŋin	'dog'
I			jɪn	viði
e	ēddə		jɪn	ðixi
ɛ	era	'coconut tree'	fela	'pretty'
ə		'leopard'	ləfer	'tail'
a	avil		mavərələ	'sweep'
u	umbar	'shadow'	xaðala	'nose'
o	umbur	'lyre'	tuði	'come out'
ɔ	otel	'door'	lubu	'lake'
		'piece of stone'	lóm	'fish'
			maxo	'sew'

ɔ	ɔrta ɔlə	'bowl' 'to cry'	ɸon	'house'	-----
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III Contrast

A. Minimal pairs between consonants are shown below. B=Beginning of the word, V=between vowels, C=next to a consonant, E=End of the word. Only high tone is marked; the default is low tone.

b-p	B	beða	'dip'	peða	'white'
	V	abá	'beard'	apá	'take'
	C				
	E				
p-f	B	paða	'handful'	fela	'pretty'
	V	lapulla	'dot'	ləfora	'lizard'
	C	lampel	'toothless'		
	E				
b-v	B	xobéla	'shell'	xovéla	'chase noisily'
	V	ŋaben	'groundnuts'	ŋavin	'blood'
	C				
	E				
t-d	B	oða	'snake'	oṭa	'pick up'
	V				
	C				
	E				
d-ð	B				
	V	xáða	'stone'	xáða	'near'
	C	luθar	baboon	xaðon	'house'
	E				
t-t	B				
	V	xaṭih	'have'	xaṭih	'get out'
	C				
	E				
t-ð	B				

	V	xatala	'disappear'	xadala	'move'
	C				
	E				
d-ð	B	duwa	'eight'	ðuwá	'root'
	V	xéða	'stone'	xéða	'animal'
	C				
	E				
g-x	B	gwi	'summer'	xwi	'yellow'
	V			maxa	'sew' [maya]
	C	manga	'brother'		
	E				
s-ð	B	sé	'all'	ðé	'to stab'
	V	xəsosa	'strainer'	xəðoða	'losing'
	C	xəlṣá	'wine'	xəlða	'buy'
	E				
c-ʃ	B	cá	'abuse'	Já	'to call a goat when it runs away'
	V	xoceða	'follow'	xoðoða	'thin'
	C				
	E				
t-s	B	ṭe	'iron stick'	se	'all'
	V	xarṭa	'cry to'	xarsa	'said to'
	C				
	E				
k-x	B	kála	'deep in'	xála	'place'
	V	kuwa	'name of person'	xuwa	'hot'
	C	alkraw	'on the earth'		
	E				
k-g	B	gínná	'three'	kinní	'type of tree'
	V				
	C				
	E				
f-v	B	fela	'pretty'	vaða	'stop raining'
	V	ŋafer	'tails'	ŋável	'kind of fruit'
		xəfelaná	'happy'	xəvéláná	'water tree'

	C	E			
l-t	B V C E	la xela abəlaxur	'be in area' 'comming' 'kind of bird'	la xəla abələxur	'head' 'suckle' 'groundnut shell'
r-l	B V C E	rowa əra xəmbra rar	'fences' 'leopard' 'head cushion' 'ropes'	luwa ela xəmla lal	'meeting' 'come' 'tortoise' 'flies'
r-t	B V C E	rə yaru xəreṭ rar	'hands' 'skins' 'cloth' 'ropes'	rə yaru xəreṭ rar	'head' 'hairs' 'kind of grasshopper'
c-s	B V C E	asi	'girl's name'	áca	'to ignore him'
n-ŋ	B V C E	nər aləna ŋoləŋ	'girls' 'we eat' 'seeds'	nər aləna ŋoləŋ	'girl' 'you sing' 'words'

B. Minimal pairs between vowels are shown below. B=Beginning of the word, M=middle of the word, E=End of the word. Only high tone is marked; the default is low tone.

e-ɛ	B M E	ləla le	'they are coming' 'eye'	lɛla lɛ	'village' 'bone'
i-ɛ	B M E	ɪra xəbṛi	'long grass' 'monthly cycle'	ɛra xəbṛɛ	'leopard' 'drop'
i-e	B M	xɪ́ri	'to suckle'	xəra	'small thorn'

	E				
i-e	B				
	M	xira	'hanging'	xerá	'break'
	E	xatí	'injure'	xere	'september'
i-i	B				
	M	ŋin	'dog'	ŋin	'dogs'
	E	xiŋi	'gazelle'	xiŋi	'to suckle'
a-ə	B				
	M	xaraj	'kitchen'	xəriŋ	'stomach'
	E	xáma	'porridge'	xəmə	'local doctor'
u-o	B	údalla	'name of person'	odállá	'kind of insect'
	M	urud	'monster'	orod	'kind of rat'
	E	xəðəbu	'type of tree'	xəðəbo	'name of place'
u-ʊ	B				
	M	xuma	'thick'	xumma	'to catch'
		ðuŋa	'stick'	ðuŋa	'back'
	E				
o-ʊ	B	oma	'care'	uma	'ill'
	M	sokəl	'bird trap'	sukəl	'pumpkin'
	E	lubo	'mirror'	ləbu	'well'
ɔ-ɔ	B	orá	'bird trap'	ɔřá	'to win'
	M				
	E				

IV. Tone Needs more investigation

There is evidence that tone is important in this language. There are two level tones and a falling tone. Below are listed words with lexical tone, and it should be noted that reading is considered very difficult when the tones are unmarked. In addition, direction is indicated by tone such that low-high indicates direction away from the speaker while low-low is direction towards the speaker. There are also instances of grammatical tone.

Away (L-H)

àpá
èlá

'take'
'go'

Toward (L-L)

àpà
èlá

↳ eg. pronouns .

'bring'
'come'

'herd cattle away'

lènjà

'herd cattle to'

low tone - mid tone @ high tone
lámà 'chin'
láma 'pot'

¶ There are many examples of tone contrast. Get more from Group.

V. Syllable structure

The following syllable types are present in Shwaya language.

CV	le (lei)	'eye'
CVC	lóm	'fish'
/C	áw	'how?'
CVCV	fela	'pretty'
VC,CVC	lm.df1	'small melon'
	mar.ga	'sister'
	nəb.ba	'wings'
CV	s.lə	'cry'
CV	gwi'	'summer'
	lə.gru	'chest'
	ŋguwí'	'there'

Intervocalic consonants may be either single or double.

í	'become bad'	óllá	'trachea'
na	'pot'	ləmma	'chin'
ma	porridge	xámmá	'1 st born girl'

. Orthography

As a result of our study, we have shown that these consonants and vowels need to be included in our orthography. In this section, we will give the symbols that the community has approved.

A symbol

p
b
f
v
m
w

p
b
f
v
m
w

Proposed Orthography

apá	'take it'
sabra	'dura'
lahfer	'tail'
ávil	'shadow'
láhmmá	'chin'
zowar	'heart'

ð	z	zó'ra	'back'
t	t	órtá	'bowl'
t̄	t̄	xa'ta	'kind of insect'
d̄	d̄	xahdam	'book'
d̄	d̄	xá'da	'stone'
s	s	suhkâhl	'pumpkin'
n	n	lihnn'dil	'small melon'
l̄	l̄	elá	'go'
r̄	r̄	ngahrciht	'sesame'
t̄	t̄	xahr'ra	'beginning'
c̄	c̄	lacâl	'camel whip'
ʃ̄	ʃ̄	ziju	'intestines'
n̄	n̄	lanyá	'herd away'
ȳ	ȳ	yazu	'breast'
ŋ̄	ŋ̄	ngah'rany	'illness'
ŋḡ	ŋḡ	mangga	'sister'
k̄	k̄	kínn'da	'crested crane'
ḡ	ḡ	gínná	'three'
x̄	x̄	xo'tam	'neck'
ā	ā	ela	'come'
ē	ē	láhma	'pot'
ē	ē	lénya	'egg'
ɛ̄	ɛ̄	ehra	'leopard'
ī	ī	jila	'cold'
ɪ̄	ɪ̄	ngahrciht	'sesame'
ō	ō	zó'ra	'back'
ɔ̄	ɔ̄	óhla	'cry'
ū	ū	yáru	'skins'
ʊ̄	ʊ̄	suhkâhl	'pumpkin'

Tone will be written. Low tone will be unmarked since it is the commonly occurring tone. High tone will be marked with an acute (á). Length in both consonants and vowels will be indicated by doubling the letter as in gínná 'three' and caan 'follow'.

also falling tone with ^