

# Dime phonological overview and suggestions for writing consistently

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January 2017

This overview is based on 3 weeks of working with two dedicated Dime speakers. During this time, a corpus of 750 words has been collected. This limited dataset is skewed towards nouns (about 570 items); verbs are underrepresented. The suggestions for writing given in section 5 must therefore be seen as preliminary and subject to change.

Previous linguistic research of the Dime language includes

- Fleming, Harold (1990). A grammatical sketch of Dime (Dim-af) of the lower Omo. In: *Omotic Language Studies*, R.J. Hayward (ed.), pp 494-583, London: SOAS.
- Siebert, Ralph et al. (1995). A survey of the Dime language. *S.L.L.E. linguistic reports* 31: 2-14. [published electronically as: Sociolinguistic survey report on the Dime language of Ethiopia. *SIL Electronic Survey Reports* 42606. [http://www.ethnologue.com/show\\_author.asp?auth=7136](http://www.ethnologue.com/show_author.asp?auth=7136)]
- Mulugeta Seyoum (2008). *A grammar of Dime*. Utrecht: LOT.
- Ute Olschowy (2016). Unpublished results of a 2-week orthography workshop. <sup>2</sup>

Both Mulugeta's and Olschowy's work have been used in the present study. The main goal of the present work is to fill some gaps indicated by Olschowy in her report, namely the need for a more detailed study of vowels, and the start of tone research. In addition, this study confirms most of her consonantal phoneme analysis.

Section 1 discusses vowels, section 2 consonants, section 3 phonotactics, and section 4 tone. Section 5 gives suggestions for a consistent way of writing the language in Sabea and Latin.

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<sup>1</sup> I want to express my thanks to Ato Tona Bedil and Ato Simeon Nipise, the Dime speakers; and to SIL Ethiopia for preparing the workshop led by Dr. Constance Kutsch Lojenga. Any comments or questions on the paper can be sent to [anne-christie\\_hellenthal@sil.org](mailto:anne-christie_hellenthal@sil.org).

<sup>2</sup> I am very grateful to Ute Olschowy for sharing her results, which served as a basis for the present research. All faults of the current analysis remain mine. In addition, Sara Petrollino helpfully sent a preliminary version of her thesis on Hamar.

# 1. Vowels

## 1.1 Vowel phonemes

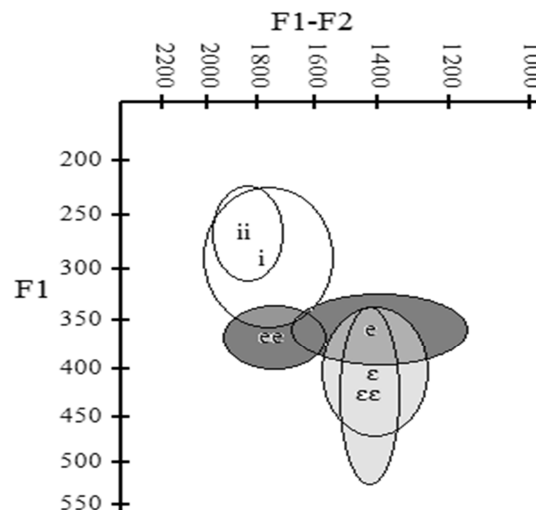
The language appears to have 7 vowel qualities, appearing both long and short.

Table 1. Vowels

	front	central	back
high	i ii		u uu
mid-high	e ee		(o oo)
mid-low	ɛ ɛɛ		ɔ ɔɔ
low		a aa	

Six of the vowels are readily identified by the speakers. Even though the front vowels are acoustically close (see Fig 1), the speakers learned quickly to distinguish the three of them.

Figure 1. Front vowel formants in CV(V).CV nouns



The mid-high vowel **o** is not perceived by the speakers as a distinct vowel in most cases, though there are occasions when one speaker has said it is neither a “proper **u**” nor a “proper **ɔ**”. One reason for not perceiving the mid-high back vowel as a separate vowel might be that fidel<sup>3</sup> offers only two ways of writing back vowels, whereas it offers four ways of writing front vowels. Since most African languages have a symmetric vowel system, and since the vowel is also attested in the closely related language Hamar (Petrollino 2016:29), further research may show that the vowel **o** is indeed phonemic. However, it does not bear a

<sup>3</sup> Name of the Sabeen script (abugida) in which the national language Amharic is written.

high functional load in the current data set. Because of its uncertain status, the rest of this work generally does not refer to this vowel<sup>4</sup>. ɔ is used uniformly in the rest of the examples.

The vowel quality of the vowels, especially of high front vowels, may alter due to length and syllable structure, as shown in example (1). In syllables with a short vowel and short closed syllables, the vowels are centralised<sup>5</sup>. /e/ also often sounds centralised when it occurs word-finally. All of this variation is phonetic, not phonemic.

1)	tìréré	[tì:rɛ]	‘rug’	dim	[dím]	‘Dime’
	géérè	[gé:rɛ]	‘terrace’	t’él	[t’ɛl] ~ [t’ɜl]	‘flour’
	k’ééré	[k’ɛ:rɛ]	‘door’	él	[ʔɛl] ~ [ɛl]	‘newest leaf’
	bààké	[bà:kɛ <sup>h</sup> ]	‘hearth stones’	k’áp	[k’ap’] ~ [k’ɛp’]	‘tongs’
	úúrèn	[ʔú:rɛn]	‘rat’	tússèm	[t <sup>h</sup> ús:ɛm]	‘seven’

Phonetically, a vowel with a H tone in word-final open syllables may sometimes sound longer and somewhat breathy, as indicated in example (2).

2)	ʃèjé	[ʃèjɛ <sup>h</sup> ]	‘tick’
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## 1.2 Vowel length

Vowel length is phonemic in Dime. All vowels can appear long and short. Length is shown by doubling the vowel symbol, except between phonetic brackets. In monomorphemic nouns, long vowels only occur in the first syllable. Example (3) shows some (near) minimal pairs contrasting vowel length.

3)	íiné	‘sheep’	ínè	‘today’
	éél	‘hare’	él	‘newest leaf’
	ʃèémé	‘pray, petition’	ʃèmé	‘prayer’
	ááfé	‘eye’	áfè	‘mouth’
	gójórù	‘heap of stones’	gòrú	‘grave’
	zúúlù	‘shinbone’	zùlú	‘rainbow’

<sup>4</sup> A set of recordings of all vowels in different CV-structures has been collected for further analysis.

<sup>5</sup> Thanks to Dr. Constance Kutsch Lojenga for her advice to take syllable structure into account. Not rigidly doing so may lead to larger but faulty inventory of vowels (Mulugeta 2008:25, though he notes asymmetry in the system).

### 1.3 Distribution of vowels

This section describes the distribution of vowels in nouns that end in a vowel and nouns that end in a consonant. Note that the vast majority of mono-morphemic nouns that end in a vowel have -e or -u as the final vowel, with -u occurring mostly following back vowels, with only few exceptions.

4)	-e#	-u#
i	dífbè ‘thief’	-
e	sékè ‘bat’	-
ɛ	k’èèré ‘door’	z’éétú ‘month of August’
a	áxfè ‘clay’	àtsú ‘old man’
ɔ	-	órxú ‘fish’
u	-	gúúrù ‘crocodile’

Of the handful of nouns ending in -a, most are names for female persons. One noun out of more than 500 ends in -e. Examples are given in (5). Note that some of the nouns for females as well as the word for ‘sibling-in-law’ have a HL tone on the last syllable, suggesting there might be a suffix involved.

- 5) bètá ‘animal sp.’  
gúútʃâ ‘marriage name for a tall, slim woman’  
búfâ ‘marriage name for a red-skinned, fair-shaped woman’  
téésê ‘sibling-in-law’

For monomorphemic nouns that do not end in a vowel, the picture is more varied: all vowels can appear as V2. However, the back vowels do not occur following front vowels<sup>6</sup>. The same type of restriction is claimed for Hamar (Petrilino 2016:31). The other gaps may be due to limited data.

Table 2. Vowel combinations in nouns ending in a consonant.

	a	i	e	ɛ	ɔ	u
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<sup>6</sup> In bi-morphemic nouns, like **mítʃ-gə̀d** ‘bulbul’, and other word classes, like the adjectival **gítʃâ-b** ‘big’, back vowels do occur following front vowels.

a	kámáj 'millet'	àrīj 'tree sp.'	gáisèn 'chief's podium'		ànzól 'eagle sp.'	sàdúl 'hair decoration'
i	hìjáf 'heaven'	índìd 'wife'	fíndèr 'scorpion'	ǰíftér 'boiling over (?)'		
e	ts'èèmár 'black shapely woman'		hérèm 'hump'			
ɛ	mèxán 'lizard'	éǰín 'story'	béltǰ'èm 'embers'	ǰékèt 'stool'		
ɔ	ǰómàr 'ginger'	sòlǰ 'bee eater'	ònkél 'chest'		wóǰkwòǰk 'bird sp.'	tóxùb 'thick- billed raven'
u	t'ùláj 'deaf'	búbìd 'husband'	úúrèn 'rat'	súsèt 'bird sp.'	sùllók 'hornbill sp.'	túhúm 'spring'

## 1.5 Vocalic nasals and vowelless syllables

In a few words, nasals occur in the nucleus of the syllable, carrying tone.

- 6) èng [ʔəŋg<sup>h</sup>] 'land at intermediate altitude'  
búúrǰ [bú:rǰ] ~ [bǔ:rǰn] 'whirlwind'  
tǰ'írǰntǰ'àrp' [tǰ'írǰntǰ'àrp'] ~ [tǰ'írǰmtǰ'àrp'] 'quail'

Some syllables have a very short vowel, like the alternative pronunciation [bǔ:rǰn] in (6) above. Some noun or verb suffixes seem to have this very short vowel when following a consonant-final word. In whistled speech, these short vowels are present, but still they may not have their own tone. For example, the tone on the short vowel in the demonstrative in (7) is mid, which is due to its position between a L and H tone. The vowel on the definite suffix in (b) is probably best analysed as an epenthetic vowel.

- 7) a. ès-nú [ʔəs̄nú<sup>h</sup>] 'this (M)'  
b. érk-és [ʔírk̚s] 'the maternal uncle'

## 1.6 Diphthongs

Dime has words like those in (8) that can be analysed as having diphthongs in their first syllable. Besides an analysis as  $V_1V_2$  sequence, it is also possible to argue for a VC sequence (i.e. a vowel followed by a glide consonant). Both long vowels and complex codas are already independently established in the language. Tonal behaviour so far does not give a clue either.

- 8)
- |                 |                                    |
|-----------------|------------------------------------|
| dàiré ~ dàjré   | ‘scar decoration pattern on torso’ |
| gáít ~ gájt     | ‘hoe’                              |
| fèité ~ fèjté   | ‘lowland’                          |
| wóíʃil ~ wójʃil | ‘tit (bird sp.)’                   |
| óis ~ ójs       | ‘butter’                           |
| gùídú ~ gùjdú   | ‘baboon’                           |
| jàùʃú ~ jàwʃú   | ‘cross-eyed’                       |

The nouns in example (9), which are monosyllabics ending with the diphthong, are perhaps better represented with two tone-bearing vowels instead of vowel-glide sequences. But probably these nouns are or were derived from bisyllabic ones.

- 9)
- |           |                   |             |
|-----------|-------------------|-------------|
| dáu ~ dâw | <? dâwù / <? dáʔù | ‘snake sp.’ |
| gáu ~ gâw | <? gâwù / <? gáʔù | ‘hookworm’  |

Bisyllabic nouns ending with -j<sup>7</sup> behave like consonant-final words (at least when affixing the plural marker -af). A sample list is given in (10).

- 10)
- |        |              |
|--------|--------------|
| tʃʳláj | ‘intestines’ |
| kámáj  | ‘sorghum’    |
| kátsàj | ‘tapeworm’   |
| ʃéj    | ‘itch’       |
| àríj   | ‘tree sp.’   |
| sòlíj  | ‘bee-eater’  |
| wúj    | ‘stand’      |

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<sup>7</sup> -j may be a relic of a nominative marker (cf. Ometo nouns suffixed by the nominative marker -í).

## 2. Consonants

Dime has 26 consonant phonemes<sup>8</sup>.

Table 3. Consonants

	bilabial	alveolar	post-alveolar	velar	glottal
vd stop	b	d		g	
vl stop		t		k	ʔ
ej stop	p'	t'		k'	
ej affr		ts'	tʃ'		
vl affr		ts	tʃ		
vl fric	f	s	ʃ	x	h
vd fric		z			
vd affr			ʒ		
nas	m	n			
cont	w	l,r	j		

### 2.1 Consonantal inventory and allophones

All consonants are described below, with notes on their allophones and distribution.

#### 2.1.1 Stops

/b/ is a voiced bilabial stop and may be weakened in intervocalic position. Before pause, it may be hardly audible (weakened and/or unreleased). In schema:

/b/ > [β] /V\_V  
 [β̚] /\_#  
 [b] /elsewhere

Example (11) lists some example words.

- 11) bázè 'debt'  
 k'òbér 'sycamore sp.' [k'òβér]  
 wúsìb 'bird sp.' [wúsìβ̚]  
 úmbù 'dukula'  
 rèbdé 'tree sp', kubzu 'fly'  
 débbé 'coriander'

<sup>8</sup> The number of consonant phonemes in the present analysis is considerably less than the 33 in Mulugeta (2008:9). The difference stems mainly from recognizing complementary distribution patterns, which reduces the number of phonemes.

/d/ is an voiced alveolar stop. Its release word-finally (before pause) is audible and (impressionistically) partially devoiced.

- 12) dònú 'potato'  
 kádé 'grasshopper'  
 búúd 'heart'  
 bándè 'hair'  
 úddù 'four'

/g/ is a voiced velar stop. Its release word-finally (before pause) is audible and partially devoiced.

- 13) gúrbú 'abandoned house'  
 ʃúngù 'lyre'  
 fug 'finyit'  
 t'áng 'velum'  
 tʃ'iggé 'to pay'

/t/ is a voiceless alveolar stop. It is slightly aspirated word-initially. Word-finally, there is an audible release.

- 14) tútú 'owl sp.'  
 dùkít 'civet cat'  
 kúʃtú 'grease'  
 ínt 'cockroach'

/k/ is a voiceless velar stop. It is slightly aspirated word-initially.

- 15) kùùkú 'francolin'  
 ák 'liver'  
 ʃánkè 'floor'  
 wóʃkwòʃk 'crested eagle'  
 wókkèl '1'

/ʔ/ is a glottal stop. In initial position, it contrasts with /h/ and the glides (16). It is not written in word-initial position. In some verbs it occurs root-finally (17).

- 16) áfàl [ʔáfàl] 'cloth'                      hálfè [hálfə] 'knife'



éhè	[ʔéhè]	‘house’	jèré	[jèrɛ́ʰ]	‘donkey’
ómú	[ʔóm:ú]	‘sun’	wómù	[wómù]	‘chaff from t’eff’

- 17) kɔʔ- ‘carry on the back’  
 ʃéʔ- ‘wash (clothes)’  
 tʃaʔ- ‘hit (with fist)’

/p’/ is a bilabial ejective, in free variation with the bilabial implosive (schematically written as /p’/ > [p’] ~ [ɓ]). It is relatively infrequent.

- 18) p’òrtʃú ‘firefinch’ [p’òrtʃú] ~ [ɓòrtʃú]  
 tááp’è ‘tongs’  
 k’ap’ ‘tongs’  
 k’òrp’ú ‘cattle sickness’

/t’/ is an alveolar ejective. In onset position, it is in free variation with its implosive counterpart.

- 19) t’élè ‘medicine’ [t’élè] ~ [ɗélè]  
 kùt’ù’bú ‘vulture’  
 mét’ ‘snail’  
 gónt’ ‘to be angry’  
 fúlt’ù ‘ankle, wrist’

/k’/ is a velar ejective.

- 20) k’áhé ‘beads’  
 tʃààk’é ‘oath’  
 fɔk’ ‘to peel leaves off a maize cob’  
 lónk’ù ‘waterpipe’  
 bàkk’é ‘to press down (e.g. through a sieve)’

### 2.1.2 Affricates

/ts’/ is a voiceless alveolar affricative ejective.

- 21) ts’éts’è ‘gray hair’  
 kéts’ ‘hole for trapping animals’

énts'é            'bee'

/tʃ'/ is a voiceless post-alveolar affricative ejective.

- 22)    tʃ'íítʃ'            'cloud'  
       màtʃ'ár            'maize flower'  
       p'òrtʃ'ú            'firefinch'  
       k'éntʃ'            'gland'

/ts/ is a voiceless alveolar affricate. It does not occur in word-initial position.

- 23)    étsé            'tooth'  
       nééts            'child'  
       dùntsú            'to labour in birth'

/tʃ/ is a voiceless post-alveolar affricate. It does not occur in word-initial position.

- 24)    tútʃù            'knot'  
       batʃ            'year'  
       kóftʃú            'lungs'  
       géntʃ            'fig'

All the affricates are single phonemic units. Syllabification by native speakers shows that the affricates are treated as single segments: homorganic stop-fricative sequences are never divided over two syllables but always assigned to one syllable (25). Furthermore, word-initial syllable onsets only allow one consonant (ts'éét 'hundred' is CVVC, not CCVVC).

- 25)    é.tsé            'tooth'  
       gó.ts'ù            'mosquito'  
       mé.tʃè            'elder sister'  
       mòð.tʃ'ú            'spices'

### 2.1.3 Fricatives

/f/ is a voiceless bilabial or labiodental fricative. In most positions, it is weakened to a soft bilabial with little friction [ɸ]. Following a nasal, it is strengthened to become a stop word-medially, or affricate word-finally. Schematically:

/f/ > [p] /N\_

[pɸ]/N\_#

[ɸ] ~ [f] /elsewhere

- 26) fúfúm 'yoghurt'  
shíf 'shade (of tree)'  
dámɸ 'tobacco' [dámɸɸ]  
kàlfé 'shoulder'  
kóftʃú 'lung'  
góft 'joy'

/s/ is a voiceless alveolar fricative.

- 27) súset 'bird sp. (waxbill?)'  
tós 'story'  
kúst 'roof'  
gàrsé 'louse'  
mánsé 'weed'  
háxstè 'evening'  
méslá 'marriage name for a large woman'  
sústú 'rust'  
téssé 'waterfall'

/ʃ/ is a voiceless post-alveolar fricative.

- 28) ʃélé 'clay dish for serving food'  
úʃùm 'horn'  
gáʃ 'road'  
girsh 'porcupine'  
wóʃkwòʃk 'crested eagle'  
kárʃe 'tigh'  
áxfè 'clay'  
òʃlá 'marriage name for a light-skinned chubby woman'  
kúʃtú 'fat, grease'

/x/ is a voiceless (post-)velar fricative. It does not occur word-initially. Intervocally it will become voiced, and also following /r/ or preceding a voiced or ejective (unvoiced)

consonant. Speakers differ a bit in how far back they produce these fricatives so that there is phonetic variation:  $x \sim \chi$  and  $y \sim \Psi$ . The simplest schema to describe the distribution of the allophones is that the voiceless allophones occur before voiceless consonants and before pause and the voiced allophone elsewhere:

$y$	$> x \sim \chi$	/_C[vl]
		/_#
	$> y \sim \mathcal{B}$	elsewhere

- 29) áxèm ‘ensete’ [áyèm] ~ [áɛèm]  
 bááx ‘13<sup>th</sup> month’ [bá:x] ~ [bá:χ]  
 búxxú ‘big gathering, crowd’  
 báxtjér ‘monitor lizard’  
 fúxt’ù ‘straw’  
 màxsé ‘blood’  
 báxzém ‘cold’  
 érxèn ‘sweat’

/h/ is a glottal fricative. Word-initially it is voiced [ɦ] and does not occur in front of back vowels (30). Word-medially and finally it is voiceless (31). Schematically:

/h/ > ɸ/#\_  
> h elsewhere

- |     |       |                 |
|-----|-------|-----------------|
| 30) | hááxé | ‘tree’ [fiá:ʔs] |
|     | hédèr | ‘left hand’     |
|     | híngé | ‘insect sp.’    |
| 31) | mɛh   | ‘money’         |
|     | kíràh | ‘flamingo’      |
|     | éhè   | ‘house’ [ʔéhè]  |
|     | gáhè  | ‘sunny season’  |
|     | wòhú  | ‘meat’          |

/z/ is a voiced alveolar fricative.

- 32) zérè 'body'  
díízè 'highland'

k'éz	'trap'
ámzè	'woman'

/ʃ/ is the post-alveolar counterpart of /z/. Word-initially it is pronounced as an affricate, whereas intervocally it is pronounced as a fricative. Word-finally it may be pronounced both [dʒ] and [ʒ].

33)	jéré	'ravine'
	jààjé	'Melo' [dʒà:ʒé]
	bárje	'grain sp.'
	fúúʃ	'cold, cough'
	gérʃ	'cat'

#### 2.1.4 Nasals

/m/ is a bilabial nasal.

34)	máálé	'coffee dregs'
	ʃúkúmú	'hoof'
	úm	'arrow'
	k'ùmdú	'skin'
	gúmt'ù	'lightning'
	bendemt'	'creation'
	támmé	'10'

/n/ is an alveolar nasal. It assimilates in place to post-alveolar and velar consonants. There is no evidence for /ŋ/ in my data, since all occurrences of [ŋ] are adjacent to a velar.

35)	núnú	'fire'
	àján	'spirit'
	bíndè	'ash'
	béngè	'spear' [bɛŋgè]
	géntʃ'	'fig' [gɛntʃ']
	ànzól	'eagle sp.'
	ʃénné	'five'

Note that not all nasals are harmonized in place!

- 36) k'émde 'eyebrow'  
ámzè 'woman'

### 2.1.5 Approximants and others

/w/ is a labio-velar approximant. In word-initial position, it only occurs preceding back vowels. It is rare in other positions.

- 37) wómù 'chaff from t'eff'  
wúlù 'neighbour'  
jàwʃú 'cross-eyed'

/j/ is a post-alveolar or palatal approximant. In word-initial position, it is in complementary distribution with /w/, not occurring before back vowels.

- 38) jífè 'eyelashes'  
jèré 'donkey'  
já 'you'  
máájé 'water pot'  
gòjú 'butt'  
k'ááj 'fog'

/r/ is an alveolar tap or trill. In a few nouns it occurs word-initially, which is rare in Omoti.

- 39) rèbdé 'tree sp.'  
kérèm 'fence'  
ʃór 'trumpet-like instrument'  
tʃ'érkè 'dew'  
k'úrʃù 'viper'

/l/ is an apico-alveolar lateral.

- 40) láálè 'stone'  
sól 'injera'  
mélle 'milling stone'  
gúlts'ú 'tadpole'  
ʃlá 'marriage name for a chubby, fair skinned woman'

## 2.2 Consonant gemination

Gemination of consonants is phonemic in Dime. Example (41) shows some (near) minimal pairs. Gemination is so far attested for b, d, g, k, k', s, ch, gh, m, n and l. It is expected that further research will fill some of the gaps.

41)	báálè	market	bààllé	'forked pole'
	sìlé	'personal item from childhood'	síllé	'barren man'
	émé	'insect sp.'	émmé	'give/giving'
	túmú	'lake'	tùmmú	'colon (large intestine)'

## 2.3 Sibilant harmony

Root-internally, sibilants must be either alveolar, or post-alveolar; they cannot be mixed.

42)	alveolar:		post-alveolar:	
	ts'íz	'ash in waterpipe'	tʃ'áájè	'ground squirrel'
	sútsú	'refined ore'	tʃ'éjém	'flower'
	ts'étsè	'right arm'	tʃ'íítʃ'	'cloud'
	súsèt	'waxbill (?)'	jààjé	'Melo'
	sésàj	'indigobird'	jéjè	'milk'
			jéntʃ	'bed'

Across morpheme boundaries, the causative suffix **-s** harmonises in place (43) but the definiteness marker **-(é)s** does not (44).

43)	sèlx-s-é	'smell something good' (cf. sélxèn 'fragrance')
	jùx-ʃ-ú	'smell something bad'
	wùtʃ-ʃ-ú	'water (make drink)'
44)	nééts-és	'the child'
	jéntʃ-és	'the bed'

## 3. Phonotactics

This section briefly discusses syllable structure and consonant clusters.

### 3.1 Syllable types

Dime has six syllable types, exemplified below.

45)	CV	<u>nú</u>	‘he’	<u>zó.lù</u>	‘bird of prey’
	CVV	<u>kàà</u> .fé	‘cheek’		
	CVC	t’ <u>él</u>	‘flour’	à. <u>ján</u>	‘spirit’
	CVVC	<u>dóóm</u>	‘heel’		
	CVCC	<u>góft</u>	‘joy’	má. <u>lént</u>	‘soot (on pots)’
	CCV	háx. <u>stè</u>	‘evening’		

N.B. Glottal stops are not written word-initially.

### 3.2 Consonant clusters

Most clusters in monomorphemic words have a nasal or liquid as C1 and an obstruent as C2. A few examples are given in (46). C1 can also be filled by fricatives (esp. f and x) and C2 is then t or an (af)fricative (47).

46)	bángèl	‘jawbone’
	fíndèr	‘scorpion’
	ámzè	‘woman’
	kéntʃé	‘clay tobacco holder on water pipe’
	érk	‘maternal uncle’
	wòrʃín	‘skirt from leaves’
	bàltʃé	‘stiff porridge’
	tólkú	‘leopard’

47)	éfté	‘bird’
	wófʃél	‘coffee husks’
	óxʃú	‘cardamom’
	ʃèxtʃé	‘bird sp.’
	ʃóólóxt	‘martin/swallow’

There are a few nouns with other clusters, like rèbdé ‘tree sp.’

## 4. Notes on tone

Research on tone is in its early stages. No full analysis is attempted here.



Tone is easier to identify for the speakers than for example vowel length, showing that tone is an important part of the word and a major clue for identifying words. In fact, given a proper context, tone may be the only clue: the speakers of the language sometimes communicate by whistling alone.



#### 4.1 Tone on nouns

Dime has two tones, H and L. A HL falling tone also occurs, but so far there is no compelling evidence to regard it as a unit rather than a compound tone.

All monosyllabic nouns are H. In disyllabic nouns, three tone patterns occur.

- 48) H.H kámé ‘wooden trough’  
 H.L kánè ‘younger sibling’  
 L.H kítʃ’é ‘thatch’

All voiced consonants (both obstruents and sonorants) in a syllable onset cause H tones to start slightly lower, so that H may sound like a rising tone (tonetic variation). In (49), two nouns with a H.L tone pattern are compared. The first noun starts with a voiced consonant, the second with a voiceless consonant.

- 49) [  ] [  ]  
 záátè tááp’è  
 ‘bean’ ‘tongs’

Tone does not appear to have any relationship with syllable structure. Table 4 illustrates all three tone patterns in disyllabic words with common CV-structures.

Table 4. Tone patterns and syllable structure

	H.L	H.H	L.H
CV.CV	mátè ‘face’	kádé ‘grasshopper’	bàjé ‘food’
CVV.CV	náájè ‘hyena’	hááxé ‘tree’	ààné ‘hand’
CVC.CV	hálfè ‘knife’	mángé ‘gourd’	bàlté ‘forehead’
CVC.CVC	bángèl	báxtjér	ònkél

	‘jaw/molar’	‘monitor lizard’	‘chest’
CV.CVC	áxèm ‘ensete’	báǰém ‘fear’	sèlél ‘palm tree sp.’

When the plural marker **-af** is suffixed, the terminal vowel of a noun is dropped, and the tone remains the same.

- 50) H.H ts’áámé ts’áám-áf ‘eagle(s)’  
H.L kóólù kóól-àf ‘dove(s)’  
L.H kùùkú kùùk-áf ‘francolin(s)’

With C-final words, the tone patterns become as follows:

- 51) H.H báxtǰér H.H.H báxtǰér-áf ‘falcon(s)’  
H.L gúdùm H.H.L gúdúm-àf ‘wild boar(s)’  
L.H bùkúk L.H.H bùkúk-âf ~ bùkúk-áf ‘parrot(s)’

The tonal behaviour is the same when the definiteness marker **-(e)s** is suffixed.

## 4.2 Tone on verbs

In the verb paradigms in (52), note the distinctive way of marking person, with a suffix **-t** for 1<sup>st</sup> person and a suffix **-n** for 2<sup>nd</sup> and 3<sup>rd</sup> person. The verb root is **ets** ‘eat’. The paradigm to the left marked with **-te** could be Imperfective, while the paradigm to the right marked with **-e** could be Perfective.

- 52) áté éstêť ‘I eat’                      áté étsêť ‘I ate’  
yá éstên ‘you eat’                      yá étsên ‘you ate’  
nú éstên ‘he eats’                      nú étsên ‘he ate’  
ná éstên ‘she eats’                      ná étsên ‘she ate’  
wótê éstêť ‘we eat’                      wótê étsêť ‘we ate’  
yésè éstên ‘you (pl.) eat’                      yésè étsên ‘you (pl.) ate’  
kétê éstên ‘they eat’                      kétê étsên ‘they ate’

The little elicitation on verbs that was done so far shows only two verb classes. So far, the distinction only shows up on the root in the Imperative. The verbs on the left in (53) have a

L tone on the two Imperative forms and the verbs on the right a H tone. All verbs have the same tone pattern on the other two forms of the quadruplets.

53)	L roots	H roots
	sàhé 'stroke!'	áfé 'dry!' (put something in the sun)
	sàhés 'stroke (pl.)!'	áfés 'dry (pl)'
	sáhêt 'I/we stroked'	áfêt 'I/we dried'
	sáhtêt 'I/we stroke'	áftêt 'I/we dry'
	hàtsé 'sift!'	tʃ'áʔé 'hit!' (with fist)
	hàtsés 'sift (pl)!'	tʃ'áʔés 'hit (pl)!'
	hátsêt 'I/we sifted'	tʃ'áʔêt 'I/we (have) hit'
	hástêt 'I/we sift'	tʃ'ádêt 'I/we hit'
	bàkk'é 'press down!' (through a sieve)	
	bàkk'és 'press down (pl)!'	
	bákk'êt 'I/we pressed down'	
	bák'dêt 'I/we press down'	

## 5. Writing consistently

This section presents some suggestions for writing the language consistently. Ideally, each distinctive sound of the language is represented in a unique way, so that there can be no confusion about the meaning of words and so that the written form of the language is just as expressive as the spoken form. Writing in a uniform and regular manner makes it easier to read and to search text for a certain word.

### 5.1 Fidel

This section describes how to write Dime using fidel. Glosses are given in Amharic, so that the examples will be accessible to those who don't know English well.

#### 5.1.1 Consonants

The following table shows how the consonant phonemes of the language are mapped to fidels:

	bilabial	alveolar	post-alveolar	velar	glottal
vd stop	b ᵐ	d ᵑ		g ʔ	

vl stop		t ት		k ክ	? አ
ej stop	p' ጽ	t' ጥ		k' ቅ	
ej affr		ts' ጽ	tʃ' ጭ		
vl affr		ts ሥ	tʃ ች		
vl fric	f ፍ	s ስ	ʃ ሸ	x ች	h ኸ /#_ ህ
vd fric		z ዝ			
vd affr			ʒ ጅ		
nas	m ሞ	n ን			
	w ው	l, r ለ፥ ር	j ይ		

While most fidels are similar to the standard Amharic use, some are different.

In Dime, ስ /s/ and ሥ /ts/ are two different sounds. Note that ሥ does not occur at the beginning of a word.

54)	ሳጌ	‘መቄረጥ’	አሠ	‘ስማግሌ’
	ሳሄ	‘መዳሰስ’	ኤሢ	‘ጥርስ’
	ሳሚ	‘ሾላ ዛፍ አይነት’	ጌፍሢ	‘ዳቦ’
	ሴኬ	‘የሌሊት ወፍ’	ካሢ	‘ትል’
	ሰለል	‘ዘንባባ’	ዪሥ	‘ድግምት’
	ሲል	‘2ኛ ማሸላ’	ቤሢ	‘ላከ’
	ሶንቁ	‘ሳመ’	ዱንሠ	‘ማማጥ’
	ዲሴን	‘ፈጨ’	ኔዕሥ	‘ልጅ’
	ጉሱ	‘ትልቅ ቅል’	ጦይሥ	‘መውቀር’
	ቶስ	‘ታሪክ’	ጼሢ	‘ቀኝ ኢጅ’
	ቃስቴን	‘ሁለት’	ቃሥ	‘ተከታተለ’
	ሱስቱ	‘ዝጋት’	ሱሠ	‘በእሳት የጣራ በረት’

Use ጽ, as in the following words. Don’t use ፅ when you write Dime.

55)	ጼጼ	‘ሸበት’
	ጸልቱ	‘ጤናደም’
	ጸኑብ	‘ጥቁር’
	ጸዕት	‘መቶ’
	ኤንጼ	‘ንብ’
	ለጼ	‘ላሰ’
	ቃርጼ	‘ቁርጠት’
	ጎጼ	‘የምባ ትንኝ’
	ጼሢ	‘ቀኝ ኢጅ’

For the phonemic sound /h/, there are two fidels in Dime. [h]: in the beginning of the word, use ኸ (and wherever this allophonic sound occurs root-initially). [h]: In the middle and at the end of the word use ህ. Don't use አ and ኅ.

- 56) ኸልፌ 'ቢላዋ'  
ኸሬም 'ሸኛ'  
ኸዕቼ 'ዛፍ'  
ኸዕኬ 'ከመሬት ለከመ'  
ኸሢ 'ማወናፍት'  
ኸቕስቴ 'ማታ'

- 57) ቱሁም 'ምንጭ'  
መህ 'ገንዘብ'  
ላህ 'ስድስት'  
ዎሁ 'ስጋ'  
ጋሄ 'በልግ'  
ኧሄ 'ቤት'

Dime has a sound /x/ that is not present in Amharic. Use ኸ for all its occurrences.

- |                |               |
|----------------|---------------|
| 58) አቼም 'እንሰት' | አቕሼ 'ሸክላ'     |
| ቦቼሉ 'በቀለ'      | ጨርቅንጥ 'አረንጓዴ' |
| ደቼ 'በቆሎ መዝራት'  | ጋቼም 'ነገ'      |
| ሎቾቹ 'ፍትፍት'     | ማቕሴ 'ደም'      |
| ሾቼር 'የጋያ መቀመጫ' | ናቕት 'እንክልፍ'   |
| ናዕቼ 'ትላንት'     | ባዕቕ 'ጳጉሜ'     |
| ዎቼን 'ከብት'      | ዛቼም 'ኤሊ'      |
| ዙቼ 'ዎባ'        | ኸዕቼ 'እንጨት'    |
| መዕቼ 'መቆጨት'     |               |

Consonant gemination is so far not written, but could be written with two dots over or under the fidel, as is often done in Amharic for foreigners.

### 5.1.2 Vowels

The first form is used for the sound /ε/. Listen as you speak out the words.

- |              |                |
|--------------|----------------|
| 59) በሼ 'ምጣድ' | ጨርኬ 'ጤዛ'       |
| በት 'ከባለለ'    | መህ 'ገንዘብ'      |
| መቴ 'ችገር'     | መልቼ 'ምንጠሮ'     |
| ሰለል 'ዘንባባ'   | ሸሜ 'ጸሎት'       |
| ሸገት 'ጭልፊት'   | ቀርሴ 'መናቅ'      |
| ቀዕሬ 'ቅዳሜ'    | ዘሬ 'ሰውነት፥ አካል' |
| የዬ 'ተኩላ'     | ጠዕሼ 'ጥላ'       |

ጠል	‘ዱቄት’	ገርጅ	‘ድመት’
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If this sound /ε/ is at the very beginning of the word, it is spelt with አ.

60)	አሄ	‘ቤት’	አርቆን	‘ላብ’
	አሺን	‘ተረት’	አዕቴም	‘ቁስል’

The second form is used for the sound /u/.

61)	ሹንጉ	‘ክራር’	ሹኩሙ	‘ስኩና’
	ሹጤር	‘ንስር’	ቁርሹ	‘እፍኝት’
	ቡዕድ	‘ልብ’	ሙዕጹ	‘መልምል’
	ኩብዙ	‘ዝምብ’	ኩዕኩ	‘ደፋርሳ’
	ዱዕሩ	‘ዝሆን’	ጉሽ	‘ጥፍር’
	ፋጉ	‘ማካፈል’	አሠ	‘ሽማግሌ’

The third form is used for the sound /i/.

62)	ሲቢብ	‘አማች’	ሲዕኔ	‘ወፍጮ ድንጋይ’
	ሺፍ	‘የዛፍ ጥላ’	ሺኬ	‘ጠፍ በእጅ መንከል’
	ኢሺም	‘ታላቅ ወንድም’	ቲንጌ	‘ሄደ’
	ኢንት	‘በረሮ’	ኢዕኔ	‘በግ’
	ኢንዲድ	‘ምስት’	ቢንዴ	‘አመድ’
	ኪንጌ	‘ሸራራት’	ዪንጌ	‘አየ’
	ዪዴ	‘ያዘ’	ዪዕሌ	‘አፈር’
	ጊቾብ	‘ከባድ’	ጢዪን	‘መግል’
	ማሊንጥ	‘ጥላሽት’	ቡቢድ	‘ባል’
	ኩሊም	‘በቆሎ ለአበባ ደረሰ’	ዎሊይ	‘አጋዝን’

The fourth form is used for the sound /a/. Note that always the fourth form is used. At the start of a word, use አ. Don’t use ኣ.

63)	ላህ	‘ስድስት’	ማንጌ	‘ቅል’
	ላዕካይ	‘የበቆሎ ጸጉር’	ማጫር	‘የበቆሎ አበባ’
	ሻጩም	‘ብራቢሮ’	ሻክ	‘በርሃን’
	ቃዕሜ	‘ጆሮ’	ባልቹ	‘ንፍሮ’
	ባዕቴ	‘ጎደሬ’	ታቺ	‘ታኮ’
	አቴ	‘እኔ’	አክ	‘ጮጐራ’
	አፋል	‘ልብስ’	ካልት	‘መጥረቢያ’
	ኻዕች	‘ካረዛ’	ጣቺ	‘ማጭድ’

The fifth form is used for the sound /e/. Have you heard the difference with the first and third form?

64)	ሜቹ	‘ታላቅ እህት’	ሜል	‘ስራስር’
-----	----	-----------	----	--------

ሜዜ	‘ስም’	ሜዕኪ	‘ጎሽ’
ሴኬ	‘የሌሊት ወፍ’	ሴዩ	‘መዳን’
ፔኤ	‘ልብስን ማጠብ’	ፔዕሬ	‘ሚስጥ’
ቁምዴ	‘ቅንድብ’	ቁንጭ	‘እጢ’
ቁዕሬ	‘በር’	ቤርጌ	‘ክረምት’
ቤንጌ	‘ጦር’	ቴቹ	‘ማረድ’
ኤሢ	‘መብላት’	ኤል	‘አድስ ቅጠል’
ኤርክ	‘የእናት ወንድም’	ኤርፌ	‘ጨረቃ’
ኤፍቴ	‘ወፍ’	ኤዕል	‘ጥንቸል’
ኤዕቴ	‘ጉሎ’	ዜዕቴ	‘በሬ’
ጌዕሽ	‘ካርካሮ’	ጤሌ	‘መድኃኒት’

The seventh form is used for the sound /ɔ/~/o/.

65)	ሎክ	‘ነገር’	ሾር	‘መልኬት’
	ቶስ	‘ታሪክ’	ፎቅ	‘መሸልቀቅ’
	ጎፌር	‘እንሽላሊት’	ቶልኩ	‘ጂብ’
	ሎንቁ	‘ጋያ’	ኦዕቱ	‘ላም’
	ኦጭ	‘ፍልፈል’	ሾላይ	‘ትኩስ ወተት’
	ሶዕል	‘እንጀራ’	ዶዕም	‘ተረከዝ’

Because of the complex syllable structure, it seems wise to reserve the sixth form fidels for consonant-only use. Compare the words on the left with the words on the right and note which sound you heard at the end of the word.

consonant-final			vowel-final		
CVC	ባች	‘year’ [bátʃ]	CV.CV	ባቹ	‘cattle fence’ [bàtʃé]
	ሲል	‘2 <sup>nd</sup> growth of grain’ [síl]		ሲሌ	‘personal item from childhood’ [sìlḳ]
CVVC	ኤዕክ	‘grandfather’ [é:k]	CVV.CV	ኤዕኪ	‘locust’ [é:kḳ]
	ትዕር	‘fog’ [tí:r]		ቲዕሬ	‘floor mat’ [tì:rḳ]
CVCC	ካልት	‘axe’ [kált]	CVC.CV	ባልቱ	‘forehead’ [bàltḳ]
	ጌንች	‘fig’ [gḳntʃ]		ጩንቹ	‘mediator’ [tʃḳntʃḳ]

N.B.: Further research needs to determine whether to write certain suffixes with fifth form or sixth form.

Vowel length: *o* is an unchanging symbol indicating that the vowel is lengthened. This solution is used in Zayse and has been adopted during the workshop<sup>9</sup>.

		example with short vowel		example with long vowel	
i	ኢ (3rd form)	ደሥ	jíts 'charm'	ደዕቤ	dííbé 'thief'
e	ኤ (5th form)	ሜሺ	mèjé 'sowing'	ሜዕሺ	mèèjé 'satan'
ε	ኦ (1st form)	ኦሄ	ehe 'house'	ጸዕት	ts'éét 'hundred'
a	አ (4th form)	ባዬ	bàjé 'food'	ባዕዬ	báájè (wilderness)
ɔ	ኦ (7th form)	ጎሩ	gòrú 'grave'	ጎዕሩ	góórù 'heap of stones'
u	ኡ (2nd form)	ዙሉ	zùlú 'rainbow'	ዙዕሉ	zúúlù 'shinbone'
C only	(6th form)	ዳልኝስቱ	dàlxsté 'ointment for blessing'		
		ቤንደምጥ	béndémt' 'creation'		

Here are some more words with long vowels:

66)	ኢዕኔ	‘በግ’	ቲዕር	‘ጉም’
	ደዕዜ	‘ደጋ’	ጢዕሜ	‘ትዕቢት’
	ሱዕቱ	‘ለሊት’	ቱዕም	‘ነጭ ሽንኩርት’
	ቱዕሱ	‘ዘመድ’	ኡዕሬን	‘አይጥ’
	ላዕሌ	‘ድንጋይ’	ማዕዬ	‘እንሰራ’
	ቃዕሬ	‘ጦጣ’	ሻዕዬ	‘አሻዋ’
	ማዕሌም	‘መስኪን’	ባዕሌም	‘እውር’
	ባዕቕ	‘ጳጉሜ’	ናዕቂ	‘ትላንት’
	ኣዕኔ	‘እጅ’	ጃዕጂ	‘መሎ’
	ጸዕፌ	‘መላጥ’	ፋዕዚን	‘ጥርስ ፍንጭት’
	ጫዕቂ	‘ማላ’	ባዕቱ	‘ጎደሬ’
	ባዕኪ	‘ጉልቻ’	ኣዕክ	‘ሴት አያት’
	ቃዕሜ	‘ጆሮ’	ዛዕቱ	‘አደንጓሬ’

<sup>9</sup> Alternative solutions are possible, for example using the appropriate fidel for [fi], for example ዲኸቢ ‘thief’; ሜኸሺ ‘satan’; ጸኸት ‘hundred’; ዙኸሉ ‘shinbone’.



If, in the future, it should be necessary to add a 7<sup>th</sup> vowel, i.e. distinguish three back vowels, I recommend introducing the ‘ɔ’-forms developed for Me’en and Suri (for example ለ፬, ሞ፬, ሰ፬, ሱ፬, ቶ፬, ጦ፬, ሕ፬, ሸ፬). Then, ቆስ would be pronounced [k’ós] ‘bone, ኣጥንት and ለኸ would be pronounced [lók] ‘thing, ነገር’ . SIL can help installing the keyboarding program needed to type these forms<sup>10</sup>.

### 5.1.3 Tone

Tone is usually not written in fidel, though it is possible to use accents over the fidel symbols, or put a single dot under them. More research is needed to decide whether to write tone, and if yes, how. To my knowledge, no research has ever been done to test the relative worth of writing tone vis-a-vis writing consonant gemination or vowel length for ease of word recognition and reading in fidel. Therefore, no good grounds for an advice on this point can be offered.

### 5.1.4 Alphabet chart

The table below shows a possible alphabet chart for Dime.

	Cε	Cu	Ci	Ca	Ce	Cɔ	C <sup>11</sup>
l	ለ	ሉ	ሊ	ላ	ሌ	ሎ	ል
m	መ	ሙ	ሚ	ማ	ሜ	ሞ	ም
ts	ሠ	ሡ	ሢ	ሣ	ሤ	ሥ	ሦ
r	ረ	ሩ	ሪ	ራ	ራ	ሮ	ር
s	ሰ	ሱ	ሲ	ሳ	ሴ	ሶ	ስ
ʃ	ሸ	ሹ	ሺ	ሻ	ሼ	ሽ	ሽ
k’	ቀ	ቁ	ቂ	ቃ	ቄ	ቅ	ቆ
x <sup>12</sup>	ቆ	ቈ	ቊ	ቄ	ቆ	ቈ	ቊ
b	በ	ቡ	ቢ	ባ	ቤ	ቦ	ብ
t	ተ	ቱ	ቲ	ታ	ቱ	ቶ	ት
tʃ <sup>13</sup>	ቸ	ቹ	ቺ	ቻ	ቼ	ች	ቾ

<sup>10</sup> An alternative solution would be using the ‘wa’ forms, which do not request special keyboards, but these are probably less intuitive and require more adaptation when transitioning to Amharic.

<sup>11</sup> Care should be taken NOT to append a vowel, as is done in Amharic. Therefore the ‘sadis’ column is here placed last! It remains to be seen whether that is acceptable to the Dime people, and how it would influence children’s transition to Amharic in case they start learning in their mother tongue.

<sup>12</sup> This consonant does not occur word-initially. It might be necessary to prefix a vowel.

n	ነ	ኑ	ኒ	ና	ኔ	ኖ	ን
ṇ	ኸ	ኹ	ኺ	ኻ	ኼ	ኽ	
k	ከ	ኩ	ኪ	ካ	ኬ	ክ	ከ
ḥ	ኸ	ኹ	ኺ	ኻ	ኼ	ኽ	
h <sup>14</sup>	ሀ	ሁ	ሂ	ሃ	ሄ	ህ	ሐ
w	ወ	ዑ	ዒ	ዐ	ዑ	ዒ	ዑ
z	ዘ	ዙ	ዚ	ዛ	ዞ	ዟ	ዘ
j	የ	ዮ	ዺ	ያ	ዬ	ዮ	ይ
d	ደ	ዱ	ዲ	ዳ	ዴ	ድ	ደ
ḋ	ጀ	ጀ	ጀ	ጀ	ጀ	ጀ	ጀ
g	ገ	ጉ	ጊ	ጋ	ጌ	ግ	ገ
t'	ጠ	ጡ	ጢ	ጣ	ጤ	ጥ	ጦ
tʃ'	ጪ	ጫ	ጬ	ጭ	ጮ	ጯ	ጰ
p'	ጸ	ጹ	ጺ	ጻ	ጼ	ጽ	ጾ
ts'	ጸ	ጹ	ጺ	ጻ	ጼ	ጽ	ጾ
f	ፈ	ፋ	ፊ	ፋ	ፈ	ፈ	ፋ

## 5.2 Latin

An alphabet in Latin script could look like the following (IPA values given underneath):

a b c ch d e ε f g gh h i j k l m n o p q r s sh t ts u w x xs y z  
a b tʃ' tʃ d e ε φ g x h i dʒ k l m n ɔ p' k' r s ʃ t ts u w t' ts' j z

In Latin, long vowels will be written by doubling the vowel grapheme, and geminated consonants by doubling the consonant grapheme, or the first symbol of the digraph. Tone can be written by accents. Sample words can be found in the attached word list.

<sup>13</sup> This consonant does not occur word-initially. It might be necessary to prefix a vowel.

<sup>14</sup> A voiceless **h** does not occur word-initially. It might be necessary to prefix a vowel. Because of this difference/difficulty, this consonant is not put in its common row as the first fidel, but here.