To: Unicode Technical Committee

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Initiative, UC Berkeley; Jesus MacLean, Boston University; Neil Patel

Subject: Bété (Ivorian alphabet) working document

Date: November 2023

This is a report on current progress with an Ivorian alphabet, Bété script. This is an update of L2/19-044

Bété script was formulated in 1956 by Frédéric Bruly Bouabré as a way to teach people writing without having to depend on Latin script. Bouabré's works were acknowledged in his lifetime, yet the most comprehensive display dedicated to this project within the context of postcolonial liberation was posthumous, with the Museum of Modern Art in New York's exhibition *Frederic Bruly Bouabre: World Unbound* which was installed alongside *The Project of Independence: Architectures of Decolonization in South Asia 1947-1985.*²

Cote d'Ivoire / Ivory Coast is a country in Africa literally defined by the colonial/imperial export of ivory.³ Though the script is postcolonial, a site where Bouabré initially found inspiration, Daloa, has prehistoric roots.⁴ That Bété is part of a larger language complex is a powerful argument made by Lynell Marchese in *Tense/Aspect and the Development of Auxiliaries in Kru Languages*:

[Maurice] Delafosse (1904) was the first to point out that the Sassandra River forms a natural boundary, dividing the family into two parts (see map 1). Exceptionally, Nyabwa, a Western language, is spoken in a region to the east of the Sassandra River. He labelled the Eastern group 'Bete' and the Western group 'Bakwe'. While this basic subdivision is certainly justified, it seems wiser to refer to Eastern Kru and Western Kru, since Bete and Bakwe are names of individual languages within each group.⁵

For an example illustrating how glyphs related to the human body regularly appear within this language complex, see Marchese:

In most Kru languages, directionals are expressed by means of body parts. Thus the word for 'back' may be used to express the notion 'behind'. (1986:108)

Utility of such an approach may also be seen when the language is explained by children: https://artsandculture.google.com/story/fr%C3%A9d%C3%A9ric-bruly-bouabr%C3%A9-he-who-does-not-forget-contemporary-african-art-collection-the-jean-pigozzi-collection/OgUhXvfDjWyBKg?hl=en

¹ Nzewi, Ugochukwu-Smooth C.. *Frederic Bruly-Bouabre: World Unbound*, MoMA: NY. 2023, page 10; see also https://www.unicode.org/L2/L2017/17323-bete-progress.pdf.

² https://www.moma.org/calendar/exhibitions/5348 and https://www.moma.org/magazine/articles/698.

³ An example of the use of ivory during the early Roman empire is in the collection of the National Museum of Slovenia, dated to the third century CE: https://www.nms.si/en/collections/highlights/710-Ivory-dolls use. For Ivory Coast's maritime colonial history see e.g. Marchese 1986:2-3, 11.

⁴ "Daloa is one of the few sites in Ivory Coast where archaeologists have found evidence for prehistoric activity. Upper Palaeolithic implements have been retrieved from Issia village and the caves of Korah Zouzouza, both a few kilometres from the modern-day city." Tom Sykes, *Ivory Coast: the Bradt Travel Guide*, Globe Pequot Press: 2022, 176

⁵https://www.sil.org/system/files/reapdata/15/77/51/157751593474230680207400134496804045425/200 12.pdf, page 3.

There are currently ~10 elders of the community who actively use the script. Encoding would allow for greater communication possibilities. 17 schoolchildren have also been taught the script. Estimated community size ranges from over a half a million to nearly two million people (*The Peoples of Africa: An Ethnohistorical Dictionary* by James Olsen, 1996, page 93). Languages bring communities together, yet also assist communities wishing to share their culture. A central feature of Ivorian culture being strength inherent in hybridity (*brasse* or "intermixed" locally) as an impetus for the creation of Bété script may be seen, for example in a work on display in the 2022 Museum of Modern Art, New York, exhibit *Frederic Bruly Bouabre: World Unbound:*

Discours de Léopold Sédar Senghor à l'Université d'Abidjan

Bouabré wrote many publications, including https://tenthousandrooms.yale.edu/node/117433/mirador?canvas=194809

An example of Bété script can be seen in the initial slide for Deborah Anderson's presentation "Missing Scripts: Script Encoding Initiative" (https://vimeo.com/379769338).

These are exhibits dedicated to Bété:

1986 "Magiciens de la Terre",

https://museum.stanford.edu/exhibitions/alphabete-world-through-eyes-frederic-bruly-bouabre

- -"Universal Alphabet Art", Banca del Monte di Lucca Foundation. , 2021
- -Bruly Bouabré 59th Venice Biennale Jul 6, 2022
- -Frédéric Bruly Bouabré June 2 July 30, 2022 MAGNIN-A- PARIS
- -"Frédéric Bruly Bouabré: World Unbound" MoMA New York, 2022

https://www.moma.org/calendar/exhibitions/5348

Scholarship on Kru languages (including an estimated 1.8 million people in the late 1970s), which Bété is among includes:

The syntax of verbs: from verb movement rules in the Kru languages to universal grammar

The Ministry of National Education and Literacy of Ivory Coast is prototyping bilingual education in 37 schools, including 22 for the Integrated School Project (PEI) and 15 for the ELAN-Afrique Côte d'Ivoire Initiative, with 10 languages representing the four large linguistic groups, as a teaching/learning medium: Agni, Abidji, Baoulé, Senoufo, Koulango, Yacouba, Toura, Dioula, **Bété**, Akyé

A Bété virtual keyboard was created

https://languagetools-153419.appspot.com/bete/

https://languagetools-153419.appspot.com/bete/kbtransforms/

https://www.ruphus.com/bete/render-table.html

More details on the script can be found in:

Yeo, A. and Cao, F. (2021) Study on the Application of the Bété Script in Modern Graphic Design. *Art and Design Review*, 9, pages 156-179. doi: 10.4236/adr.2021.92014.

https://www.scirp.org/journal/paperinformation.aspx?paperid=109206

The inclusion of a Bete translation of the Universal Declaration of Human Rights could be an initial digital project for an application of the script:

https://www.ohchr.org/en/stories/2016/11/universal-declaration-human-rights-now-available-more-500-languages-and-dialects

An unencoded version of this text is included as an appendix.

Ivorian Children's Language Assessment Toolkit for Abidji, Attié, Baoulé, and Bété https://www.oise.utoronto.ca/boldlab/ivorian-language-toolkit/ notes: "Language assessments in a child's native language (rather than in French) are not available."

Script Name

The name BETE is acceptable for the script. 1.8 million people are connected with Kru languages and the script can be seen as modeling Kru languages generally. In addition to linguistic and historical reasoning for considering this an "Ivorian alphabet", along with "Bété script", there are also practical considerations.⁶

This is the most current version of the font, by Adam Yeo:

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	TRE	tre-bete	

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⁶ Bouabré dedicated the "Ivorian Alphabet" to Felix Houphouet-Boigny, Ivory Coast's late former president (Nzewi 2023). Boigny's interactions with Bété as a people were fraught. Tensions around protection of rainforests in "the western forested area of Gagnoa - also a historically Bété area" led to "brutal" action "including the assassination of the protest leader Nragbe Kragbe". Scott Straus, *Making and Unmaking Nations: War, Leadership, and Genocide in Modern Africa*, p.128; Sykes estimates death of around four thousand people (21); see also Jean-Pierre Dozon, "Les Bete: Une creation coloniale." in *Au cœur de l'ethnie: Ethnie, tribalisme, et etat en Afrique*, ed. Jean-Loup Amselle et Elikia M'Boloko, Paris: La Decouverte. 1985: 49-86. The next president of Cote d'Ivoire was born into a family of the Bété people: https://www.britannica.com/biography/Laurent-Gbagbo.

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tchui	CUI	cui-bete	DD
lou	LU	lu-bete	Λ
lui2	LUI2	lui2-bete	M
ti	TI	ti-bete	1
bho	ВНОО	bhoo-bete	Σ
bhé	ВНЕЕ	bhee-bete	Σ
bhi	ВНІ	bhi-bete	<u> </u>
pa	PA	pa-bete	
peu	PEU	peu-bete	
do2	DOO2	doo2-bete	
dui	DUI	dui-bete	
bree2	BREE2	bree2-bete	A
bri2	BRI2	bri2-bete	AA
grou	GRU	gru-bete	A

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bi	BI	bi-bete	u)
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lui	LOO	loo-bete	
			mx
	LUI	lui-bete	
lô			mymy
			his his
	LO	lo-bete	
lou2			<u>清</u>
			12
lou3	LU2	lu2-bete	
1043			私
	LU3	lu3-bete	
lui3	1233		This.
			VVVV
	LUI3	lui3-bete	
ma			<u>100</u>
			N
má	MA	ma-bete	
mé			卢 丽
	MEE	maa hata	7200
	MEE	mee-bete	

mê			
inc			ব
	ME	me-bete	
mê2	IVIL	inc occ	010
			∞
	ME2	me2-bete	
meu			K
			Λ
mi	MEU	meu-bete	
IIII			X
	MI	mi-bete	
mo	MI	mi-bete	
			<u>₽</u> 0
	MOO	moo-bete	
mô			2-¥
			慧
	МО	mo-bete	
mou			<i>₽</i> 0
			V
mu	MU	mu-bete	
1110			22
	MUE	mue-bete	
na	1,102	mus soss	
	NA	na-bete	
ne			mm
nê	NEE	nee-bete	
IIC IIC			<u>०</u> २५०२५
	NE	ne-bete	
ni	INE	IIC-OCIC	
			\mathcal{D}
	NI	ni-bete	
nou			8
			O
	NU	nu-bete	
no			8
	NOO	1 .	
	NOO	noo-bete	

nui			
			88
	NUI	nui-bete	
nô			_ ച്ചാച്ച
nou2	NO	no-bete	+
11042			\(\int_\overline{\pi}\)
	NU2	nu2-bete	
gna			W
			A
	NYA	nya-bete	
gne			A
	NIXEE	1	
gnê	NYEE	nyee-bete	
			1 -1 1
	NYE	nye-bete	
gni			\æ
			/ <i>l</i> ≈
on o	NYI	nyi-bete	
gno			Na.
	NYOO	nyoo-bete	7.
gnô	11100	nyoo o cc	24
			<u>k</u> 2
	NYO	nyo-bete	
gnué			K
	NAME:		چ ^ٽ ر آ
gnuê	NYUE	nyue-bete	
			ka Ka
	NYUE2	nyue2-bete	•
gnou			A
			Ô
	NYU	nyu-bete	
gnui			රිරි
	NVIII	nyui hata	
pa2	NYUI	nyui-bete	••
			\ \
	PA2	pa2-bete	

pé			
1			\ \
	PEE	pee-bete	
pê	TEE	pec sete	• m
			は
	PE	pe-bete	
pê			ବ୍ର
			77
	PE	pe-alt-bete	
peu2			
			Θ
	PEU2	peu2-bete	
pyï			⊕⊕
:	PYI	pyi-bete	
pi			
	D.		171
ро	PI	pi-bete	
Po			∞ ×∞
	POO	poo-bete	
po			
	POO2	poo2-bete	
pui			
	PUI	pui-bete	 ⊕⊕
pui			
	PUI2	pui2-bete	_
pô	1 012		0
	PO	no hoto	
pou	10	po-bete	
			<i>\$</i>
	PU	pu-bete	
pu		1	2-2
			200
	PUE	pue-bete	
pu2			0
	PUE2	pue2-bete	
pra			
			3 3
	PRA-PLA	pra-pla-bete	

pre			
Pro			₽ Ţ
	DDEE	1 4	·
vou	PREE	pree-bete	
Vou			₽₹₽₹
	VU	vu-bete	
vui	VO	vu-bete	A - M
			\$ \
	VUI	vui-bete	
pra2	701	vui bete	
•			\Rightarrow
	PRA2	pra2-bete	
pré2	11412	pruz sete	
			>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>
	PREE2	pree2-bete	
pri			0
			\mathbb{D}
	PRI	pri-bete	
prê			0
			S
	PRE	pre-bete	
prê2			
			A Co
	PRE2	pre2-bete	
pri2			
			no no
	PRI2	pri2-bete	
pro			हिन्ह- क
			\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
	PROO	proo-bete	
prô			出
			U
mroll	PRO	pro-bete	
prou			
	nn		(2.53)
prou2	PRU	pru-bete	
prouz			
	DDITO	2 1- 4	
prui	PRU2	pru2-bete	1
L			(h)
	PRUI	prui-bete	,
	FKUI	prui-bete	

	<u> </u>		
ra			险
			(2))
	RA	ra-bete	
re			ñ
			11
	REE	ree-bete	
rê			m
			ιψι
	RE	re-bete	
ri			2
			€
	RI	ri-bete	
ro			12
			先
	ROO	roo-bete	
rô			
			જ
	RO	ro-bete	
rou			
			<u>ಿ</u>
	RU	ru-bete	
rui	110	10 000	
			۲
	RUI	rui-bete	
sa	ROT	Tur sete	
			:k.
	SA	sa-bete	
se	JA.	sa-octc	
			199
	SEE	see-bete	
sê	SEE	Scc-odie	
	SE	se-bete	
si	SE	SC-DETE	
			<u></u> <u> </u>
	CI	gi hata	·
sô2	SI	si-bete	
			<u> هر هر</u>
	002	21	
sui	SO2	so2-bete	
- 5 u 1			<i>£</i> ⋒
	QI.T		24/11
	SUI	sui-bete	

sou			
			fo
	SU	su-bete	
sui2			fee
			\P
zô	SUI2	sui2-bete	
20			Pao
	ZO	zo-bete	
zui2	20	20 0000	0 -
			0.00 mg
	ZUI2	zui2-bete	
té			#
			05
tê	TEE	tee-bete	
ic			4
	TE	te-bete	
to	TL.	te sete	X
			አለ
	TOO	too-bete	
to2			*
			X .
tô	TOO2	too2-bete	
ιο			%
	ТО	to-bete	
tui	10	is seic	ि गरि ग
			KKKK
	TUI	tui-bete	
tui2			*
	TT. 110		ACC.
tou	TUI2	tui2-bete	
			\odot
	TU	tu-bete	
tui3			
			\odot
	TUI3	tui3-bete	
tra			E.
	TTD :		eyz
	TRA	tra-bete	

tre			
			74.
	TREE	tree-bete	
tri			Lr∞A Δ
			E A A
	TRI	tri-bete	
tro			AAA
	TDOO	4 1 4	
trui	TROO	troo-bete	
			AAA AAA
	TRUI	trui-bete	
trô			107
			Ψ
	TRO	tro-bete	
trou			} -
	TDII		,
trui2	TRU	tru-bete	
.= 			→
	TRUI2	trui2-bete	
va			
			古
	VA	va-bete	
veu			
	MELL	1.	
ve	VEU	veu-bete	
. •			\bigcirc
	VEE	vee-bete	
vê		-	٠,٢
			自
	VE	ve-bete	
vi			N
			ן זו זע
vo	VI	vi-bete	
,,,			0
	VOO	voo-bete	
vo2	, 55	.00 000	
			A
	VOO2	voo2-bete	

vô			
	VO	vo-bete	
vra			
			∞
	VRA	vra-bete	
vre			
			00
	VREE	vree-bete	
vra2			F
	VRA2-		
vre2	VLA	vra2-vla-bete	
vrez			FFF
	L/DEE2	21.4	
vrê	VREE2	vree2-bete	
,10			LTY
	VRE	vre-bete	
vrou	VICL	VIC-OCIC	
			1
	VRU	vru-bete	
vri			
			88
	VRI	vri-bete	
vrou2			M
.2	VRU2	vru2-bete	
vri2			M
vrô	VRI2	vri2-bete	k
*10			*****
	VRO	vro-bete	
wa	VICO	VIO-OCIC	
			酒
	WA	wa-bete	
ӝо			2.4
			20
	WOO	woo-bete	
wô			
			20
	WO	wo-bete	

gnué			H
			120 131
•	WUI	wui-bete	
gnui			雪
	WUIN	wuin-bete	
wo2			<i>چ</i>
			c
ẅou	WOO2	woo2-bete	
wou			55
	WU	wu-bete	
gnuê	****	wu-bete	
			85
	WUEN	wuen-bete	
ya			# <u></u>
			Τ∓1'
***	YA	ya-bete	
ye			∏∏ †
	YEE	yee-bete	
yê	TLL	yee-ocie	777
			(
	YE	ye-bete	
yo			(2)
			[[; 1]
yô	YOO	yoo-bete	
yo			<u> </u>
	YO	yo-bete	171
yo2	10	yo occ	^
			上州
	YOO2	yoo2-bete	
ui			ŁAŁA
you	YUI2	yui2-bete	
you			
	YU	yu-bete	
yui	10	ja ooto	1.1
	YUI	yui-bete	

		1	
za			Å
			Ψ
	ZA	za-bete	
ze			出出
^	ZEE	zee-bete	
zê			
			124.
	ZE	ze-bete	
zi			濟
			01
	ZI	zi-bete	
ZO			B
			12
	ZOO	zoo-bete	
zuê			A
			K "
	ZUE	zue-bete	
zô2			A 40
	ZO2	zo2-bete	
zou			6
			Ŕ
	ZU	zu-bete	
zui			X
			À
	ZUI	zui-bete	
zra			
			0_
	ZRA	zra-bete	
zre			
			0_0_
	ZREE	zree-bete	
zré2			*
			】
	ZREE2	zree2-bete	
zri			**
			*
	ZRI	zri-bete	
zrê			,
			6
	ZRE	zre-bete	
	LILL	Zie dete	

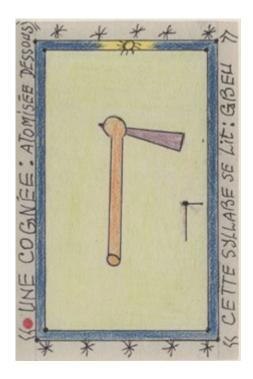
kpo				
1				Θ
		KPOO	kpoo-bete	
kpé				(A)
				\$
2		KPEE	kpee-bete	
o2				\$
		002	as? hats	
ô		002	oo2-bete	Φ.
				\$v.
		О	o-bete	
ué				Ø.3.3.
				\$-33-1
uê		UEE	uee-bete	
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				●⇒
		OI	oi-bete	
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				ATTIVITY .
n'		UI2	ui2-bete	
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	0			a
	1	ZERO	zero-bete	
	1			}
		ONE	one-bete	
	2	51.12))
				3
		TWO	two-bete	
	3			l y
				J
		THREE	three-bete	

4			y
] 3
	FOUR	four-bete	
5			
			Σ
	FIVE	five-bete	
6			8
			8
	SIX	six-bete	
7			*
			Ŕ
	SEVEN	seven-bete	
8			0
			$ \nabla$
	EIGHT	eight-bete	
9		nine-bete	5
			$ \Re$
	NINE		
I	T 411 4T	1	1

Structure

Syllables

Bété is a pictographic syllabary that is based on monosyllabic words that occur in the Bété language. The script is written left-to-right. The exact dialect of Bété that Brouabré spoke is unclear, however in general, the imagery of each glyph corresponds to an object or action that has the same phoneme in the language. For example, the word for "axe" in Bété is "gbeu" and the glyph for that syllable is a drawing of an axe. Since the system is based on existing words not all possible CV combinations have unique glyphs. In these circumstances certain diacritics are utilized to expand the repertoire.



Bété is tonal language, with four possible tonal variations. However, Brouabré's system does not make explicit notation of tone. Rather, there are a number of phonemes that have multiple graphemes with each variant having a different tonal value. These variants do not exhaustively cover the tonal variation that can occur for a given syllable, so it is presumed that tone is handled in an abstract manner (Werle & Dagou 1976).

Example:

The monosyllable "su" can have four different meanings depending on the tone, however the writing system only contains one glyph for this syllable \square , which represents a tree.

```
"su - dancing with gusto
```

'su - tree

su - grind into powder

-su - o carry

Another linguistic property of Bété is vowel mutation. Vowel mutations occur for a variety of reasons, but of relevance to the writing system is the mutation that occurs when pluralizing words (Zogbo 2004: 39-41). There are many examples of glyphs with repeating imagery that have different vowel values than their single counterpart. The difference between these related syllables is the vowel component of the syllable, which follows the vowel mutation rules in the Bété language.

The repertoire of glyphs can be broken down into the following classes. (Syllables are identified using Brouabré's notation)

1. **Singular Monosyllables** - Syllables that are direct representations of nouns or verbs that map to monosyllables in the Bété language.

Examples					
Knife (GBLÊ) Interment (GLOU) Tusks/Teeth (GLA)					
<>	į , j	DD			

- 2. *Plural Monosyllables* Syllables that follow Bété rules for labialization and vowel mutation when nouns are pluralized. There are three subclasses of these.
 - 1. **Repeating Bases** The singular base element is repeated as a pair

Examples				
Leg (BHO)	Legs (BHÉ)	Comb (FRA/FLA)	Combs (FRÉ)	
Σ	ΣΣ	≪⊏	≪ —≪	
Buttock (GO)	Buttocks (GOU)	Sickness (GU)	Sicknesses (GÛHI)	

Y	$\lambda\lambda$	<i>†</i>	<i>††</i>

2. *Repeating Elements* – The base glyph has an element that repeats. Sometimes these are arranged side-by-side, vertically or mirrored.

Examples				
Barb (TROU)	Barbs (TRUI)	Root (KPROU)	Roots (KPRUI)	
} >	>>	۵ۭ	Å	
Horn (GÛHÏ)	Horns (GÔ)			
ij	€ 3			

3.	Doubles w/o Single	s – The base	glyph only	exists as pairs,	but the vowel	ls correspond t	o
pluraliz	ation rules.						

Examples

Eggs (GUE)	Eggplants (FRÉ)	Breads (FLO)
00	6 6	ØØ

3. *Abstractions* – Syllables that use abstract imagery that is not associated with an object or action

Examples	
(É)	(Ê)
Œ	CCC

4. **Action** + **Modifier** – An action image is used with a secondary element. The word for the action contributes the consonant and the element contributes the vowel. The action component is usually not a standalone glyph but the modifier component often is an existing syllable. The modifier typically appears to the right of the action component though it can also be incorporated into the design. The vowel does not always match that of the modifier.

Examples	
	Bird (only exists as pair as ZÉ) = BHLA

In Daloa Bété the word bhla means to forge +	(2 = 1)
	Lances (only as single LI) = BHLÉ
	(<u>f</u> 12.00)
	Lance (LI) = BHLÊ
	<u>P</u>
	Leg (BHO) = BHLO
	(P) 1/20
	Human (?) = BHLÔ
	12 to

6. **Abstraction** + **Modifier** – An existing element is used with a secondary element where the action element is used in an abstract fashion, i.e. it doesn't contribute its consonant but creates an action on the modifier. In the example below the leaf wraps the object. The vowel does not always match that of the modifier.

Examples		
Leaf (KPO) + Here leaf is not used for its phonetic value but represents the idea of wrapping the succeeding object to create a standalone vowel sound. Conceptually it is as if wrapping the object	Bird (only exists as pair as ZÉ) = OI	
	\$ =1	
obscures it thus hiding its consonant component.	Birds (ZÉ) = UI	
	₩⋺⋺	
	Mushroom (O) = O	
	\$\frac{1}{2}	
	Human (?) = Ô	
	\$ 22.	

Fish (PRÉ) = OÊ
\$ \\

Diacritics

Bété utilizes a variety of diacritics which are placed either above or below a syllable. The diacritics are used to expand the repertoire of syllables for which there are no unique glyphs. Despite Brouabré's descriptions the stress mark and the vowel modifier mark are used to re-shape vowel sounds.

Mark	Application	Function	Description
		Abo	ove
ದ	Q.	Consonant Modifier	Modifies the consonant value of syllables starting with:
			$Z \rightarrow J$
			$S \rightarrow CH$
^	- -	Post-Nasalization	Nasalizes syllables ending with the following vowels
			$A \rightarrow AN$
			OI → OAN
B	£	Post-Nasalization	Nasalizes syllables ending with the following vowel
			$E \rightarrow EN$

చ	& \$	Post-Nasalization	Nasalizes syllables ending with the following vowel O → ON
_	-# -#	Stress Above	Acts like an acute in French (Bouabré's Description) e.g. PARLE → PARLÉ
			In practice, this marks gets used sometimes to lengthen vowels and convert syllables ending in OU to an O when a corresponding form does not exist. He also uses this mark to change and O to and AU.
	<u> </u>	Vowel Modifier	Modifies syllables ending with the following vowels
			$\hat{E} \rightarrow EU$ $\acute{E} \rightarrow EU$
•	•	Aspiration	Aspirates standalone vowels only A → HA
			E → HA, etc
		Belo	ow I
ρ	 	Trailing R	Adds a trailing "R' to any syllable e.g. TA → TAR

		Stress Below	Modifies syllables ending with the following vowel
_			O → E (This is Bouabré's description, though it is not very clear. In his examples it appears as if this mark acts to suppress or diminish the tone of the vowel of a syllable. See Figure 1 below)
1	€ 21	Near Proximity	Accommodates tonal shift in Bété when referring to things that are close in proximity
Y	įςγ	Distant Proximity	Accommodates tonal shift in Bété when referring to things that are distant in proximity

Proximity markers may be one of the most significant features of Bété script/language.⁷

⁷ Frederic Bruly-Bouabre, *Une Methodologie de la Nouvelle-Ecriture Africaine* <<*Bete>>*, onestar press: Paris, France. 2003: 135-136.

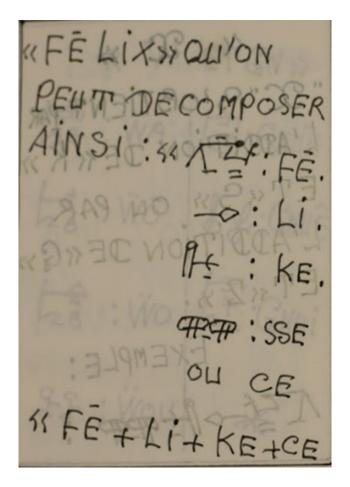


Figure 1: Brouabré's explanation of how to write English names in Bété.

Diacritics are vertically positioned some common relative distance away from base glyphs rather than at a fixed position for all glyphs. Horizontal positioning varies with the base glyph. In general marks are centered with the base glyph unless there is whitespace that is available to fill.

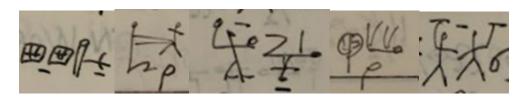


Figure 2: Examples of diacritic placement.

Diacritics can appear above and below a base glyph simultaneously. The following example shows a vowel modifier used in conjunction with a trailing R mark.

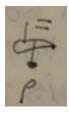


Figure 3: Example of diacritics appearing above and below the same syllable.

The only attested combination of stacked diacritics is the consonant modifier and the acute. The sequence in which they appear is not consistent. Bouabré placed the acute under the consonant modifier. However, other authors reverse the arrangement. Regardless of the sequence the phonetic result is equivalent.



Figure 4: Examples of stacked diacritics. (The first two images are drawn by Brouabré and the last image was drawn by a contemporary writer.)

While other stacked diacritic combinations are not attested they are likely possible based on how their individual functions. The following set of rules have not all been fully validated but are the best assessment of how they interact based on studying Bouabré's writing and examples.

- The consonant modifier mark **can** occur with post-nasalization marks, vowel modifier marks, stress marks, trailing R mark.
- The consonant modifier **cannot** occur with the aspiration mark.
- Post-nasalization marks **cannot** occur simultaneously on a syllable as they are mutually exclusive.
- Post-nasalization marks **may** occur with vowel modifiers and stress marks but which post-nasalization mark is chosen is unclear.
- Post-nasalization mark **cannot** occur with the trailing R mark.
- Post-nasalization marks **can** occur with the aspiration mark.
- Stress marks **cannot** occur with other vowel modifiers.
- Stress marks **may** occur with the trailing R mark.
- Vowel modifiers **cannot** occur simultaneously as they are mutually exclusive.
- Aspiration mark can occur with the trailing R mark.
- Aspiration mark **cannot** occur with vowel modifiers as there is a complete set of standalone. vowels.
- Proximity marks are mutually exclusive and **cannot** co-exist on the same syllable.
- The full usage case of the proximity marks is not completely understood. It is possible they can occur with the consonant modifier and aspiration mark; however they may not work with all other marks.

Encoding Considerations

The Bété system utilizes a number of reoccurring motifs throughout the repertoire. These reoccurring motifs are predominantly incorporated into the design of complex glyphs and to a lesser extent appear side-by-side with other forms. As a result, a cursory review of the repertoire suggests that these motifs could potentially be decomposed into smaller elements that would then subsequently be composed to form more complex glyphs. In off-line discussions with Unicode a suggestion was made to explore approaches taken for the Mayan and Egyptian hieroglyphics. Unlike these systems the Bété writing system is not as systematic, i.e. the motifs are not always applied with consistent size, orientation, and placement. In order to decompose the visual motifs, one would require multiple versions of the forms; some acting as base glyphs and other acting as combining modifiers. This would lead to confusion as to which form to choose to compose complex glyphs.

Understanding the visual system is best done using glyph classes outlined in the structure section. The glyphs are presented in Latin alphabetical order (with stand-alone vowels at the end of the list) by class.

Singular Monosyllables

These glyphs can be encoded as single units as they consist of distinct integrated artwork that represent monosyllables which make up the base units of the writing system.

Syllable Name	Glyph	Notes
(FBB transcript)		
BI	*	
(BI)	۳ًا	
BU		
(BOU)	ralar	
BHA		
	R.	
(BHA)		
ВНЕ	K 3	
(BHÉ)		
ВНО	<u>Γ</u> ζ	
(BHÔ)	3	

	l	
BHU	5	
(BHOU)	,	
BHUI	ķ	
(BHOUI)	1	
BHLI	ř.	
(BHLI)		
BHLU	£	
(BHLOU)	•	
BRO	₩.	
(BRÔ)	, x	
BRU	*	
(BROU)	^	
BRUI-2	23	
(BRUI)		
BRA/BLA	1 1 1 1 1 1 1 1 1 1	Looks like two elements but they are a single composition. The drawing of the
(BRA)	7 (22	building differs from the syllable GRU (GROU)
BHLOO-2		This syllable is related to SO and TA as
(BHLO2)	1	they represent the number 1, 2, and 3. Stroke length on all three should be the same.
DA	*	
(DA)		
DI		
(DI)		

l		
DOO	Q	
(DO)	Α,	
DRA	%	
(DRA)	29	
DRO	3	
(DRÔ)	Th .	
DRI	Le	
(DRI)	1 (
DREE	\Diamond	
(DRÉ)		
DRE	\times	
(DRÊ)	<i></i>	
FI	م ^د	
(FI)		
FRE	yė.	
(FRÊ)	•	
DJEE	平	
(DJÉ)	36	
DJI	 	
(DJI-GUI)	ח	
DJO	ඉ	
(DJÔ)		
DJOO	¥.	
(DJO)	T	

DJU	 3 [
(DJOU)	_	
DJE	miss	
(DJÊ)	71	
GBI	G-	
(GBI)	જિ	
GBO	8	
(GBÔ)	1	
GREE-2	35	
(GRÉ2)	730	
GRI		
(GRI)	Θ	
GREE	*E	
(GRÉ)	e/2	
GRI-2	жж	May appear like 2 repeating glyphs but is
(GRI2)	\$ \$	a pair of squinting eyes.
GBRI	و ا	
(GBRI)	6	
GBRO-2	龙	
(GBRÔ2)	Λ	
KA	A	
(KA)	A	

	I	1
KOO-2	E.	
(KO2)		
KI		
(KI/TCHI)	 111	
CE	P *	
(TCHÊ)	116	
KRI-3/KLII	\ \{\forall}	
(KRI2)		
KRWA/KLWA	A 전	
(KROI2)	(-)	
KRA-2	Jox	
(KRA2)	17	
KRWA	+	
(KROI)	1	
KRE-2	8	
(KRÊ2)	10.	
KREE-3	۵	
(KRE/KRÉ3)		
KPOO-2	€	
(KPO2)		
KPRE	∞	This syllable consists of two parts. The
(KPRÊ)	<u> </u>	first is the syllable GBRE/GBLE that is connected to a cylindrical form. This syllable could be broken up but the cylindrical form has no other application.

KPRI-2	<u>\$</u>	
(KPRI2)	2-	
KPRO	llo.	
(KPRÔ)	₩~	
LA	ĺ.	
(LA)		
LEE	W	May look like 2 repeating glyphs but is a single glyph of plants in a field.
(LE)		single gryph of plants in a field.
LI	 →	
(LI)	·	
LI-2	<u> </u>	
(LI2)	1/2	
ME-2	ф	
(MÊ2)		
MEU	k	
(MEU)	Λ	
MI	X	
(MI)	()	
MU	•	This syllable is related to the To Make set
(MOU)	<i>8</i> 20	under Action + Modifier but the arms are drawn in a unique fashion.
NI	0	
(NI)	D	
NYA	A	
L	<u> </u>	

(GNA)		
NYEE (GNE)	A	
NYE (GNÊ)	M	
NYI (GNI)	/ æ	
NY (N'EU/GN)	C	
PI (PI)		
PU (POU)	<i>\$</i>	This syllable consists of two parts. The figure on the left is similar to the syllable MEU $\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $
PRE-2 (PRÊ2)	S	
PRE (PRÊ)	D	
PRU (PROU)	置	

1	I	I
ROO	馬	
(RO)		
RI	ιψη	
(RI)	"	
RE	Å	
(RÊ)		
SA	۲	
(SA)		
SE	:K:	The seated figure is the same as the figure
(SÊ)	 .ᠺĠ.	in the To Do White Seated set of the Action + Modifier. This glyph however is
		not an action but a representation of measles.
SI		
(SI)		
SO		
(SÔ)	II	
TA	III	
(TA)		
TEE	±	
(TÉ)	<i>*</i>	
TE	4	
(TÊ)	 	
TI	1	
(TI)	,	

ТО	X)	
(TÔ)		
TRA	E S	
(TRA)	9 7	
TRO	\	
(TRÔ)	·	
TREE	71•	
(TRÉ)	,	
TRE	_	
(TRÊ)		
VEE	自	
(VÉ)		
VE (VÊ)	©	The base form is the face from KROO with a mustache.
VI	N	
(VI)		
VOO-2	A	
(VO2)	1 11	
VRE	ГТ ⁴	
(VRÊ)		
VRO	*X*	
(VRÔ)		

WUEN (GNUÊ/UIN)	55	
HAN (N'AN/HAN)	*	
ZA (ZA)	*	
ZE (ZÊ)	L .	The corpse is based on the syllable TREE
ZI (ZI)	ब्री	
ZRO (ZRÔ)	梵	This syllable consists of 2 parts. The figure on the right is holding a rifle and is the only application of this figure. The figure on the right is related to the figure seen in the syllable KRO \hat{\Lambda}.
ZROO (ZRO)	ģ	
A (A)	ГT	
EU (EU)	Ø.	
EUA (EUA)	ર્ત્વ	

I (I)	60297	This syllable consists of two forms. Neither is used independently.
OI-2	1	
(OI2)	-i-	
О	÷	
(OO)	6	
N/NG	±	
(N')	悫	

Below are some examples of how visual motifs are utilized within this set. While an argument could be made to decompose these syllables, the combining elements needed would only be used for a single or a few instances.

BHLO: The figure above the wavy path is the same as the syllable K MEU, which also appears in the syllables LUI-3 LUI-3.

 $\mathring{\lambda}$ DA: The upright person in this form is used in other glyphs, like $\mathring{\lambda}$ ZREE-2, $\mathring{\lambda}\mathring{\lambda}$ ZRI and $\mathring{\lambda}\mathring{\lambda}$ KRO and is based in the syllable MEU \mathring{k} .

DRO: The base form is the tree used in the syllable SU.

NYI: The fish in this glyph is based on the syllable >> PREE-2.

TRA: The base of this glyph is the syllable GREE with an arrow in its head. The arrow is a motif that is present in the syllable KEE.

ZE: The corpse in this syllable is related to the syllable 7. TREE.

YZROO: The pot here is full sized and is the syllable, NYU.

Plural Monosyllables: Repeating Bases

The following syllables are made up of repeating bases to create plurals that have a different vowel from the singular form. This change in the vowel follows mutation rules in the Bété language. In some cases the repeating glyphs are not arranged side-by-side but can be nested or arranged vertically. As seen in the previous section, combining above and below diacritics are placed centered over the pair.

Syllable Name (FBB transcript)	Singular Glyph	Syllable Name (FBB transcript)	Plural Glyph	Notes
BA (BA)		BEU (BEU)		
BEU-2 (BEU2)	⇔	BYI (B'YI)	⊕	
BHOO (BHO)	Σ	BHEE (BHÉ)	<u>Σ</u> Σ	Some renditions nest the two forms; however, legibility is not affected if they are not.
BHEU (BHEU)		ВНҮІ (ВНҮЇ)		

I				
BREE	∮	BRI	\$	
(BRÉ)		(BRI)		
BROO	75	BROE	77,77	
(BRO)	' '	(BROÉ)	1 11 1	
BREE-2	A	BRI-2	44	
(BRÉ)		(BRI2)		
BRU-2	£	BRUI	جبج	
(BROU2)		(BRUI)		
DWA	 ♣	DO-3	**	
(DOI)	11	(DÔ3)	11 11	
DOO		DUI		
(DO-2)		(DUI)		
DU	 	DUI-2	 	
(DOU)	711	(DUI2)	nr nr	
DU	MW	DUI-2	MW MW	This pair is arranged vertically when
(DOU)	,,,,,,	(DUI2)	7000	pluralized. The
				pluralized glyph could be encoded with a separate value.
FU	⊕	FUI	⊕⊕	
(FOU)	-		-	
FRA	 ≪E	FREE	 « ⊑ « ⊑	
(FRA)		(FRÉ)		
GRO	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	GROE-2	17 75 17 17	
(GRÔ)	, ,	(GROÉ2)	1 ' 1 '	

	[İ	
GYI-2	-6	GOO-2	
(GÛHÏ2)	()	(GO2)	() ()
GI	6	GO-3	66
(GÜI)	G	(GÔ3)	
GU-2	<i>†</i>	DJUI	//
(GOU2)	,	(DJUI/GÛHÏ)	
GOO	l λ	GU	
(GO)	71	(GOU)	2121
GO-2	 ピ	GYI-3	
(GÔ2)	Ц	(GÛHÏ3)	
GBA	¥	GBEU	
(GBA)		(GBEU)	
GBOO	 	GBOE	
(GBO)	1 1	(GBOÉ)	1 11 1
GBU	<u></u>	GBUI	000
(GBOU)		(GBUI)	
GBEU-3	-	GBYI	
(GBEU3)	ŕ	(GBI)	
GRE	茶	GRA-2/GLA	茶茶
(GRÊ)	11.1	(GRA2)	11.11.
GRU-2	 ไ⇔ ไ	GRUI-2	
(GROU2)	17. 17	(GRUI2)	17 JM J
GROO	≠ •>	GROE	*************************************
(GRO)	, -	(GROÉ)	, , , ,

GRO-3 (GRÔ)	6	GROE-3 (GROÉ3)	ഒ
GRU (GROU)	\wedge	GRUI (GRUI)	AA
GBA-2 (GBA2)	Ä	GBEU-2 (GBEU2)	XX.
GBRE/GBLE (GBRÊ)	<>	GBRA (GBRA)	<><>
GBRO (GBRÔ)	d	GBROE-2 (GBROÉ)	₽₽
GBROO (GBRO)	ಈ	GBROE (GBROÉ)	4
GBRA-2 (GBRA2)	Υ	GBREE (GBRÉ)	YY
GBRU (GBROU)	6~	GBRUI (GBRUI)	6~6~
KWA (KOI)	20	KO (KÔ)	DODO
KUE (KUÊ)	\$	KO-2 (KÔ2)	8.8
KOO (KO)	\$	KU (KOU)	44

	1			
KU-2	- Σξ	KUI	- 11-11	
(KOU2)		(KUI)		
CE-2	4	CEE	<u>l</u> &l&	
(TCHÊ2)	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	(TCHÉ)	~ ~ ~ ~	
COO	\Box	CUI	DD	
(TCHO)	3	(TCHUI)		
KROO-3	Д	KRUI	عم	
(KRO3)		(KRUI)		
KREE-4/KLEE	0-=	KRI-2/KLII	0-0-	
(KRÉ4)		(KRI2)		
KRU-2/KLU	صي ا	KRUI-3	£	
(KROU2)		(KRUI)	الم	
KROO	\odot	KROE	\odot	
(KRO)		(KROÉ)		
KPE	\$	KPA	\$\$	
(KPÊ)		(KPA)		
KPA-2	og	KPEU	ogog	
(KPA2)	·	(KPEU)		
KPOO	\$	KPEE	 \$\$	
(KPO)	•	(KPÉ)		
KPWA	\oplus	KPO	$\oplus \oplus$	
(KPOI)	_	(KPÔ)		
KPREE	5	KPRI		
(KPRÉ)		(KPRI)		

KPRA		KPREE-2		Based on a NU
(KPRA)	రీ	(KPRE/KPRÉ)	ර් ර්	
KPRO	₽	KPRUI	D-D-	
KPEU-2 (KPEU)	Fi	KPYI (KPYÏ)	FF .	
LE (LÊ)	⊶ ≺	LEE-2 (LÉ2)	○ -<	
LUI (LUI)	mx	LO (LÔ)	mymy	
LU (LOU)	N	LUI-2 (LUI2)	m	
NA (NA)	Ш	NEE (NÉ)	ШШ	
NU (NOU)	8	NUI (NUI)	88	
NYU (GNOU)	රි	NYUI (GNUI)	ට්ට්	
PA (PA)		PEU (PEU)		
PEU-2 (PEU2)	П	PYI (PYI)	99	
POO (PO)	9	PUI (PUI)		

		ĺ		l I
POO-2		PUI-2	=	
(PO2)		(PUI2)		
PRA/PLA	gr.	PREE		
(PRA)	,	(PRE/PRÉ)		
PREE-2	≫	PRI	<i>></i> ⇒>>	
(PRÉ2)		(PRI)		
PRU-2	<u></u>	PRUI		
(PROU2)		(PRUI)		
RU	್	RUI	<i>ಎ</i> ಲ	
(ROU)		(RUI)		
SO-2	<u></u> <u></u>	SUI	<u> </u>	
(SÔ2)	`	(SUI)		
SU	م	SUI-2	if the second se	The plural form can also be drawn as two
(SOU)		(SUI2)		separate trees. See the section on To Climb under Action + Modifier for further discussion.
ТОО	H	TUI	KKK.	
(TO)	2213	(TUI)	2117 2117	
TU	\odot	TUI-3	00	
(TOU)		(TUI3)		
TROO	AAA	TRUI	AAA AAA	
(TRO)	6 16 16 1	(TRUI)	4 16 16 1 6 16 18 1	

ĺ	1			
VA	古	VEU	 	
(VA)		(VEU)		
VU	☐ ₹	VUI	₽ ₹ ₽₹	
(VOU)	- 1	(VUI)	- 1 - 1	
VRA	O	VREE	00	
(VRA)		(VRE/VRÉ)		
VRU	<u>A</u> -	VRUI	1818	The plural syllable may be drawn in a nested
(VROU)		(VRUI)		fashion.
VRA-2/VLA	Ç	VREE-2	$\varphi \varphi \varphi$	
(VRA2)		(VRE2)	11 41	
YOO-2	长	YUI-2	ŁAŁA	
(YO2/IO)	<u>Y</u> _/1\	(UI/YUI2)		
YU	東	YUI	東東	
(YOU)	^	(YUI)		
WU	رخ	WU	ζ <u>ς</u>	
(WO2)		(WOU)		
ZUE	PA CONTRACTOR	ZO-2		
(ZUÊ)	'	(ZÔ2)	1 1	
ZRA	0_	ZREE	0-0-	
(ZRA)	5	(ZRE/ZRÉ)		
ZREE-2	Ť	ZRI	梵梵	
(ZRÉ2)		(ZRI)	****	
ZRU	₩	ZRUI	冷冷	
	<u> </u>	1	1	<u> </u>

(ZROU)		(ZRUI)		
E (Ê)	ď	E (É)	(((This glyph is a complete abstraction with no tie to any real object.
U (OU)	I	UI (UI)	II.	

Within this set there are certain glyphs which contain elements that re-occur in other syllables.

YOO-2/YUI-2: This glyph is also a 2-Part Syllable with the house on the right being the same as

the syllable A GRU. It is also an element in the syllable A TRI (See Action + Modifier). These two parts are always conjoined as a single composition.

 $\overset{\mathbf{L}}{\mathbf{L}}$ ZREE-2/ZRI: The figure wearing the mask uses the same base form as MEU $\overset{\mathbf{L}}{\mathbf{L}}$.

Plural Monosyllables: Repeating Elements

These glyphs can be encoded in one of two ways. Option one is to encode the pluralized form as separate glyphs. Option 2 is to encode the individual elements as combining marks that can be attached via anchors. Except for a few cases the repeating elements are only used for single compositions. Breaking these out would create a lot of single use marks. It should be noted that in all cases the repeating element is the operative part of the glyph. That is to say that the monosyllable that is associated with the glyph is a repeating element, not the thing it is attached to.

Syllable Name	Singular Glyph	Syllable Name	Plural Glyph	Notes
(FBB	31	(FBB transcript)	J1	
transcript)				

DRU (DROU)	<u>'</u> †	DRUI-2 (DRUI2)	龙	The repeating element is a second drop of blood
FREE-3 (FRÉ3)	ð	FRI (FRI)	6	The repeating element is an additional hole
FRU (FROU)	>	FRUI (FRUI)	\Q	The repeating element is a second sepal
GO (GÔ)	ů,	GYI (GÛHÏ)	₩,	The repeating element is an extra horn
GE (GÜÊ)	E.	GO-4 (GÔ4)	I KK	The repeating element is a second chimpanzee.
KEE (KE)	f ⊬	KYI (K'YÏ)	ft;	The repeating element is a second arrow
KREE-2 (KRÉ2)	J.g.	KRI (KRI)	HK HK	The repeating element is a second branch.
KRU (KROU)	4	KRUI-2 (KRUI)	4	The repeating element is a second boat.
KPRU (KPROU)	β	KRPUI (KPRUI)	Å	The repeating element is a second root
LU-3 (LOU3)	<u>Kr</u>	LUI-3 (LUI3)	Kk <u>k</u>	The repeating element is a second enemy (person with their lance on the ground)
PA-2 (PA2)	ኒ	PEE (PÉ)	*	The repeating element is a rock in the right hand

RA	的	REE		The repeating element is the
(RA)	V2)	(RÉ)	V2))	second bamboo stick on the right
TOO-2	 &	TUI-2	, k	The repeating element is a second
(TO2)	AC	(TUI2)	200	squiggle
TRU	} 	TRUI-2	>>	The repeating element is a second barb on the arrow
(TROU)		(TRUI2)		barb on the arrow
VRU-2	M	VRI-2	M	The repeating element is a second mouse hole
(VROU2)		(VRI2)	•	mouse note
ZO	P#O	ZUI-2		The repeating element is a second parasitized branch.
(ZÔ)	<u>'</u>	(ZUI2)	'	parasitized oranen.
ZU	Ŕ	ZUI		The repeating element is a second stake
(ZOU)	,, ,	(ZUI)	••••	State

As with the previous two glyph classes, there are certain glyphs in this set which utilize re-occurring elements. These elements are often single use or require complex composition.

DRU/DRUI-2: The knife in the figure's hand in these glyphs is a common motif, A similar element is the trowel seen in the syllable TRI (Action + Modifier). The handle shape differs in this application. Another easily confused element is the serrated knife which appears in the syllable TO.

KRU/KRUI-2: The second boat in the pluralized version appears before the base singular glyph.

 $\[\frac{1}{2} \]$ LU-3/LUI-3: The fleeing enemy used in these glyphs are the same as the syllable $\[\frac{1}{2} \]$

MEU and the lance is an element that appears To Forge set (see Action + Modifier). If LU-3 and LUI-3 were broken down to utilize these other elements. The composition of LU-3 would be straight forward since the lance can easily be anchored below the MEU. LUI-3 would be more complicated since the second lance must anchor below the first lance.

Plural Monosyllables: Doubles w/o Singles

The glyphs in this class are also plurals but their respective singular forms don't exist in the system. To maintain consistency and creative expression, only the singular base should be encoded. While the individual form does not have an explicit assigned phonetic value in the writing system as devised, they do have implicit phonetic values because these are pluralized monosyllables. Encoding only the singular forms could allow them to be used creatively. The final syllable ZEE in this class consists of two birds. A single bird is used in the Abstraction + Modifier class.

Syllable Name	Glyph	Notes
(FBB transcr.)		
BE		
(BÊ)		
BEE		
(BÉ)	44	
BUI	7 7	
(BUI)	DY DY	
FEU		
(FEU)	$ \sqrt{2000} $	
FREE-2/ FLEE	, ,	
(FRÉ2 /FLÉ)	00	

FROO-2/FLOO (FRO2/FLO)	OB	
GE (GUE)	00	
GBEE (GBÉ)	*	
GBE (GBÊ)	2 0	
GR (GRA)	99	
KRA/KLA (KRA)	6	
LOO (LO)	A A	
NE (NÊ)	<u> </u>	
NO (NÔ/NON)	മ്പമ്പ	
UI-2 (UI2)	والعذوالعذ	
PE (PÊ)	7 9	
PO (PÔ)	\$	

PROO (PRO)	no no	
SEE (SE/SÉ)	PP	
ZEE (ZE/ZÉ)	一击	See Abstraction + Modifier section for further discussion.

Action + Modifier

These glyphs utilize either reoccurring base glyphs (representing an action), reoccuring modifying elements, or both to create syllables. Each glyph in this class is organized by the action glyph.

The modifiers are often based on or related to an existing monosyllable. However, they are often rendered at a smaller size and need to attach to the action in a position that is not the same as the monosyllable. While the modifier could be encoded as separate glyphs, they are not broadly reusable. In some cases, the action component may only be used in one or two instances. As a result there is not a compelling reason to break these glyphs down into components.

Syllable Name	Glyph	Notes
(FBB transcript)		
To Dress		
BO (BÔ)	默	This is the only glyph in the set. The item in the upright figures hand is the textile that is based on the syllable NA Hand the corpse on the ground is based on the syllable TREE 7. The upright figure however only occurs in this
		glyph.
To Suspend		

BRE (BRÊ)	1000 1010	This set features two tree that are based on the syllable SU with a line connecting them and an object suspended
DE (DÊ)		below. The suspended items only occur once.
VO (VÔ)	Popo	
To Forge		
BHLA/BHRA (BHLA)	िहें	The action portion of this set is a figure seated in front of a crucible with a tool in one hand and a modifier object in the other hand. The vertical position of the crucible varies with the size of the modifying object. The modifier is a single bird that is half off the syllable ZEE
BHLOO/BHROO (BHLO)	120	The modifier is a leg that is based on the syllable BHOO \(\sum_{\chap4} \).
BHLO (BHLÔ)	6 12 to	The modifier is a corpse based on the syllable TREE 7. The action and the modifier are joined with a connecting stroke.
BHLE/BHRE (BHLÊ)	<u> </u>	The modifier is a single lance based on the syllable LI ->. The action and the modifier are joined with a connecting stroke.
BHLEE (BHLÉ)	e <u>r</u> 12.000	The modifier is two lances based on the syllable LI →.
To Swim/Retrieve		

NU-2 (NOU2/NO)	1,5∞	The To Swim/To Retrieve action form resembles the To Chop action but lacks the bracing foot below.
		The fish to the right of this syllable is based on the syllable PREE-2 >>> •
PRI-2 (PRI)	1 ⁻⁶	This syllable contains two modifiers a cup and a pot that is based on the syllable NYU O.
To Chop		
FE (FÊ)	VC	The axe used in the To Chop action is a reoccurring theme, but the size and orientation differs from other applications of it.
		This syllable has no modifier.
FA (FA)	TŸ	The modifier in this syllable is based on the syllable GBA
FOO (FO)	14	The modifier is a branch that is related to the branch seen in the syllable KREE-2 and KRI
FO (FÔ)	₹	The modifier in this syllable is based on the syllable TREE 7.
FEE (FÉ)	1 <u></u>	The modifier in this syllable is two horizontal strokes representing wood. This should not be confused with a vowel modifier mark which can appear above a syllable.
To Marry		

FRO (FRÔ)	X }	The To Marry action is the figure on the right of these syllables. The figure on the left is the modifier. In this case the modifier is a lean person.
FRA-2/FLA (FRA2/FLA)	%}	The modifier in this syllable is a heavyset person.
To Do		
FUE (FU)	K &	The To Do action is a seated figure with a single arm outstretched.
		The modifier in this syllable consists of two parts. The object in the figure's hand is a serrated knife that is based on the syllable FI . This should not be confused with the knife that represents the syllable GBRE/GBLE . The second object represents a grinding wheel, but the design is the same as the crucible in the To Forge set.
MUE (MU)	128	The modifier in this set is based on the syllable O?.
WOO (WO)	28	The modifier in this syllable consists of two parts. The first part is based on the syllable O . Unlike the previous syllable the mushroom attaches to the action at a different position. The lower object is based on the syllable NYU.
PUE-2 (PU2)	r po	This syllable is the same as the previous syllable with the addition of a fire below. The fire is related to the syllable BHU †. This is a common motif.

LU-2	•-	The modifier in this syllable is an inverted mushroom.
(LOU2)	<u> </u>	
WA	2	The modifier in this syllable consists of two parts. The bird
(WA)	G G	in the figures hand is half of the syllable ZEE ==========.
		The lower object is based on the syllable NYU \(\textstyle \).
WUI	L.	This syllable is the same as the previous with the addition of a second bird below the pot.
(GNUÉ/WUI)	<u> </u>	1
WUIN	母	This syllable is similar to the previous, but the pot is
(GNUI/UGN)	7	replaced with the fire modifier.
WO	120	The modifier consists of two parts. The first is a person and
(WÔ)	128	the second is the based on the syllable NYU O.
TRI (TRI)	经条件	The modifier in this syllable consists of two parts. The item in the figures hand is a trowel that resembles the syllable
		GBRE/GBLE
		orientation. The object to the right is the syllable GRUI
		A. This theoretically could be broken apart, but the
		combination of the action and the trowel are only used with this syllable.
To Make		
DJA	計	The To Make action is similar to the To Do action but the
(DJA)	Y41	seated figure has two outstretched arms.
		The modifier is a cattail that re-occurs as a motif but is not rendered in the same manner.

MA (MA)	₽	The modifier represents a ball of clay, but the rendering matches the crucible and grinding wheel used in other glyphs in this class.
ME (MÊ)	Ħ	The modifier in this syllable is a vessel, which is related to the syllable $VA^{-\frac{1}{D}}$.
MEE (MÉ)	Ħ	This syllable is the same as above with the addition of a second vessel. The second vessel has a handle.
MO (MÔ)	总	The modifier in this syllable is the same person figure that is in the syllable WO.
RO (RÔ)	[]	The modifier in this syllable is the fire that appears in the To Do set.
To Climb		
GBROO-2 (GBRO2)	EF.	The To Climb action features a figure attached to a tree which is same as the syllable SU .
GBREE-2 (GBRÉ2)	#	This syllable is like the previous but the figure is attached to the plural form of trees SUI-2 .
To Do While Seated		
NYOO (GNO)	Ķ2	The To Do While Seated action resembles the To Make action but the arms are spread apart.
		The modifier in this syllable is a single drop below.
NYO (GNÔ)	সুহ	The modifier in this syllable is a squiggle below the figure that represents an earthworm like shape.

NYUE (GNUÉ)	Ka Ka	The modifier in this syllable is related to the previous but features a second squiggle.
NYUE-2 (GNUÊ)	Ka	The modifier in this syllable is a worm that is related to the syllable NO ADAD.
BRA-2/BLA (BRA2)	15 0	The modifier in this syllable consists of two parts. The first is the knife that related to the syllable GBRE/GBLE rotated 45 degrees. The lower object represents a banana.
To Attack 1		retained to degrees. The fewer degree represents a canada.
KRA-3 (KRA3)	V , j	The To Attack action has two forms. The first is swinging an axe downward.
		The modifier is this syllable is the same bird that appears in other syllables in this class.
KRE (KRÉ)	¥er	The modifier is in this syllable is based on the syllable GBI
To Attack 2		
KROO-2 (KRO2)	J.F	The second To Attack action has the axe raised behind the figure's head. The modifier in this syllable is the same as the syllable SU .
KREE (KRÉ)	J. Hr	This syllable is like the previous, but the modifier is the plural form of trees SUI-2
To Dry/Smoke		

YA (YA)	##T	The To Dry/To Smoke action is composed of two parts. The first is a drying rack which is based on the syllable GBOO . The second is the same fire modifier seen in other syllables in this class. The rendering of the drying rack changes greatly with the modifier that is applied. The modifier in this syllable is the protruding element at the top.
YE (YÊ)	<i>#</i>	The modifier in this syllable is a cattail that is integrated onto the rack.
YE (YEE)	7 <u>77</u> 1	This syllable is similar to the previous but has an additional cattail.
YO (YÔ)	<u> </u>	The modifier in this syllable is a seated figure that resembles the To Do While Seated action.
Y00 (Y0)	िं	The modifier in this syllable is a mushroom that is based o the syllable O .
To Feed		
PRO (PRÔ)	o gete fi	The base form in this syllable is the based on the syllable SU with a long branch. The modifier consists of a fruit the hangs below the branch that is related to the syllable ME-2, and two birds that are related to the syllable
		ZEE = , but placed at different orientations.

The glyphs in this class are made up of a base glyph that is applied in an abstract manner followed by other glyphs. The result is a phoneme that is loosely tied to the sequence of glyphs. Specifically in this group the syllable KPO is used to "wrap" the glyphs following it to create standalone vowels. The modifiers in this set are at full size and are at the standard position. Therefore, these modifiers can all be encoded as simple letters. Except for the person laying on its back the rest are already base glyphs which can be reused.

Leaf: KPO	Mushroom: OO	Syllable: OO-2 (O2)	
\$?	\$ \chi_{\chi}\$	
	Person	Syllable: O (Ô)	
		\$KK	
	Bird + Bird: ZEE	Syllable: UEE (UÉ)	
		♥⇒⇒	
	Fish: PREE-2	Syllable: UE (UÊ)	
	≫	\$ >>>	
	Bird: Half of ZEE	Syllable: OI (OI)	
		\$-31	

Diacritics

Brouabré identifies certain syllables which include a mark attached to them. Previous Bété working documents include these in the character repertoire for possible encoding. These are excluded from this encoding model as they are applications of the diacritic system.

Examples:

Accented Syllable Name	Glyph	Base Syllable Name	Glyph
(FBB transcript)		(FBB transcript)	
ВНІ		ВНЕЕ	
(BHI)	<u>\</u>	(BHÉ)	ΣΣ
NO	_	NU	
(NO)	◇	(NOU)	>
FROO	_	FROU	_
(FRO)	8	(FRU)	8

All diacritics can be encoded as combining marks.

Name	Mark
Above	
COMBINING CONSONANT MODIFIER MARK	ନ
COMBINING POST NASALIZATION MARK 1	•
COMBINING POST NASALIZATION MARK 2	B
COMBINING POST NASALIZATION MARK 3	Ą

COMBINING STRESS MARK ABOVE	_
COMBINING VOWEL MODIFIER MARK	=
COMBINING ASPIRATION MARK	•
Below	
COMBINING TRAILING R MARK	ρ
COMBINING STRESS MARK BELOW	_
COMBINING NEAR PROXIMITY MARK	1
COMBINING DISTANT PROXIMITY MARK	Υ

Punctuation

Only one punctuation symbol requires encoding which is the BÉTÉ HYPHEN \square which is used to indicate that two adjoining syllables from the Plural Monosyllables: Repeating Bases are meant to be read as two separate singular syllables.

Glyph Sequence	Read As	Glyph Sequence	Read As
⊞~ ₹⊞	NA NA		NE

Digits

Name	Digits	Name	Digits
ZERO	α	FIVE	9
ONE	ş	SIX	8
TWO	ş	SEVEN	Ŕ
THREE	ÿ	EIGHT	₩
FOUR	J.	NINE	8

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Appendix

Universal Declaration of Human Rights translated into Bété by BAÏ DODO

- 一門外曲, 地水分曲曲层层于今 长见面面;
- 一下原甸 大人門一人一位8 安大田田 尼尼常
 - 一下作曲一样分支如如柳柳上岭。

 - 一下降開,中於下京四分日子。"全88"曲
- 一個原用, 陆湖市两个个个大学中的公公的一个

平的多数的 群.

ためる 田田 RR 手合 『田田 TO LALAKA, 社会 供 aca PA 2000 R 2000 R 10年808 円, ドサ aca PQ PA 2000 R.

原外发出的本 米然四个个人,是不是我们的一个人,他们是一个人,他们是一个人,他们是一个人,我们们是一个人,我们们是一个人,我们们是一个人,我们是一个人,我们是一个人,我们是一个人,我们是一个人,我们

四期在在长台后,所是自为个成战即长了。个人不管中的人人。

伊西田尼尼 博士中西西,伊五十五十五年四日 张田田 伊子 有人。

的公园田《在 DD ONA P 1年本作。 1年本作。 1年本

000.

明五公公 网络 原 明 公公 广 有 公公 元 英 明 公公 元 典 明 四 公公 元 明 出 公公 元 明 出 公公 元 田 兴 ·

中中人用用人们手与 自用用几个个手令 半日本

西田农户千分尺关系, 长约五 松田田尺, 约五千分尺 米米, 今八世四四 田田尺夕。 門常《《州州 米今月田田。

表然大。两两四个人,用用个个手。以用用

田田村,田田龙河。人人子中田田代本山。今中田田村、村本山见见田田村田田沙山。〇〇〇八大口,今日日。 在田田村公公公

大曲田户 00回, 可是是小爷子, 而曲田几 一年L在L在 为会日, 知 On QOOE 100 是 COR.

PODA. 后。田田田的 多个是 明 多个的人,如此是一个人,我们们 今日田田 田子 古史 举兵, DOL DO. · 由田尺",广然尼山山 的南田《田田、今点》,田田 今然 长. 文层为细细 今早。说: 成. 今: 幽田 在 龙沙田田 龙今 摩片, 今长; 今然.

PESO.

今年四日 MAKY ~~~ MA A KH 田田 今時的,

广大成为此的, 伊利战湖田田、伊开西西西西村 带 the to

0000.

为: 原外 珊瑚丹 伊升,伊那尽 AA THE 田田 OO.

分: 月五 龙刘 曲曲, 伊五 知知 科 八 见见 台曲曲 春长为几。 多层外曲曲,今 6曲曲 长以的,今 L& L& K. PA DO.

g: 情面的 图 A 图 中中日 Doch 田田 or 天下文学 門,今~~ 序台田田, 門分~~ 大。出門, 今五。於州田田, 伊西山西湖,伊西岛一位公。

了· 原如如 所 乃龙为中中 四 用 下 8~8古, 97 10 ~ 10 四 日 1 多。至于如本文-sack·如本格的证明。 DA 00. g. 曲曲度1 台~~~ 台南 米水分 KX 曲曲 夕左月. 女. 岛岛田田 Do 科新见见 Lee f. 田田在中子会长秋。人人一种工门心目,由于南下中代门心 . 西西村。大学大学大学大学、西田安山四 令灯曲曲隔,令人尽到美田田,今人已已到口, OR 50: 明明尼伊平今龄~~, 脚中五台的片中五上企出, ch此母如明公心、除好大°p开发为人人,后 大。柳柳〇〇,骨后灯珊珊。 Sa DA. 的一曲曲在在子子。 图曲曲 四升 障 米八. 四升 今十曲曲 松的外上中长。 的: 伊西岛湖田田, 科科亚亚, 中于片原 管 黑月达达 亚G. Ø\$ 50. D: 曲田民在千台 成为田田, 伊五尼合一样, 一个首众 C Los comprise. SKN HH S - SLAVE L'EDOKOK; 今时是田田四十分大学四日一个大学人工的 一种 四田 RR 大 经 田田 尼 中面口 一个 大 个 个 一个 大 省、一种《田四四四 户后之人。8~8点, 产的口鱼尽。在曲曲·平户村 CIT OF WAR COMMINE A RE.

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cockid, coop for party ax 1 安区

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村~~~曲曲、尼今 局后面面 常几片. 户: 户 今大人, 五人。 177 大田 GR田 在田田尺, 巨 今尚几

会严州》。

多·斯芹和的用面 特用用 课本大·四 一个时间的 好 降的 白口吃吃。

BOR 00.

可以的歌声的歌曲曲点曲曲点曲曲 多广州的马鱼 1- R. A LECLE DOCK, A FFI 田田 PRFA 脚分析 如如 机流车。

\$88"新发灯 \$ # L美上磁 & 是是88.