Ge'ez Berhan keyboard alphabets

Introduction

This is a Ge'ez Berhan mode (ዘገዕዝ-ብርሃን ቅጽ ተራ-ፊደል) that works as a computer-keyboard input. It requires a font supporting the Unicode 4.1 standard, "AbyssinicaSIL" is recommended. This Ge'ez Berhan list mode is designed for the US English QWERTY (ቅወርትይ) keyboard. This means that the acting keyboard requires to be in the US English keyboard-mode according to the US standard model.

Typing-in the Ge'ez Alphabet

The Ge'ez Alphabet explores all related lists of Ethio-Eritrean characters and symbols. For the excerpts look at the following examples.

The Ge'ez typing alphabet-list is ordered according to the imprint of the European keyboard mode in order to help the user to locate a similar sound from the Ge'ez alphabets. But the Eritrean and Ethiopian sound alphabet-lists that currently are used in these countries are beyond the European number-lists. Therefore, to embrace all Ge'ez alphabet spoken into these 2 countries, a wide list of alpha-list keystrokes are needed. To collect the wide list of Ge'ez alpha in one basket, a new mode of "shift or alpha-builder" is adopted. This additional mode of shift comes in to building those very basic-letter's shape of these numerous African alphabets. The new alpha-builder key is introduced with the letter " j ". therefore:

The Ge'ez-Berhan keyboard program has 3 important tasks that support the user to edit in an efficient ways and in an smoother strikes of keyboard.

1) The 1st task is to build the basic letter in no more than 2-keys, and this is for the most very common alphabets.
2) The 2nd role is to consider all Ge'ez alphabets as a consonant mode with no mixed tasks with vowels.
3) The 3rd important decision is to designate the vowels with a separate key-tasks. A single-key vowel is assigned to edit that specific level of alpha (from 1st to the 7th level). The Ge'ez alphabets need 6 separate keys for the vowels support. Therefore, to the 5 vowels available a new vowel is adopted in the letter of "v" (see the vowel table). So, in this program the "v" becomes a new vowel keys that produces the 5th level of each alphabet.

The process to type-in the vowel is changed	Ge'ez vowel	Ge'ez alpha
These vowels work only to change the consonant into the 6 levels.	e u i a v *id* o	"አ ኡ ኢ ኣ ኤ እ ኦ"
When vowels are stricken no output will occur, but 'beep' sound only.	'beep'	
To write the character consonant "አ" you need to press the 'p' key.	pe pu pi pa pv p po	አ ኡ ኢ አ ኤ እ አ
The "id" refers to all list of the basic Ge'ez alpha.	Note: *id*	*" id "*

A. Using the normal-key

ናይ ገርሂ ተራ-ፊደል ጽሕፈት፡ ገር አጻጻፍ ፊደል (ተራ-ፊደል)፡

	ከደነ	ክቡር	ሰላም	ሰማይ	ሰበር
Normal keyboard mode	ke de ne	k bu r	se la m	se ma y	se be r
	ገዳም	ገብርኤል	መልአክ	ከደ	ሄደ
	ge da m	ge b r pv l	me l pa k	ke de	hv de

B. Using the base-key + "j"

ፊደል ምስ ሓናጺ መብረ-ፊደል "j"፡ ገር-ፊደል ከነ መለዮ አጸጽፍ-ፊደል፡

	ሽክላ	መጽሓፍ	ሠመረ	ሽማግሌ	ቃለቤት
Base key + " j "	sje k la	me x hja f	rje me re	sj ma g lv	qa le bv t
	ሠናይ	ፀሓይ	ምዕራፍ	ባረኽ	ነደቆ
	Rje na y	Wje hj y	m pj ra f	ba re kje	ne de qje

C. Using the shift-key + " j "

ፊደል ምስ መበረኽን "shift" መብረን "j" ተራ-ፊደል፡ ገር-ፊደል ከነ-ሽፍት እና የ"j" መለዮ-ፊደል፡

	ሠናይ	ፀሓይ	ድኳ	ሽኳር	ጉበዝ
Shift + key or + "j"	rj na y	xj hja y	d Ka	sj Ka r	gje be z
	ቦኹሪ	መኮረ	ጔ, ኴ	ጚ, ሟ	ጞ, ኟ
	bo K ri	me Ke re	gjv, Kv	lA, mA	dO, ljO

D. The symbol or character (consonant) "አ" is the letter "p"

ተራ-ፊደል "አ" ን"p" ጸዊጥካ ይጽሓፍ፤ "አ"-ፊደል ለመጽፍ "p" ተራ-ፊደል ንካ፡

	እንጌራ	እንስሳ	አንበሳ	አብርሀ	ዓሳ
Letter 'አ' as a consonant	p n gv ra	p n s sa	pa n be sa	pe b r ha	pja sa
	ኤርትራ	ኢትዮጵያ	አፍሪቃ	እስያ	ኢንስቲትዩት
	pv r t ra (Eritrea)	pi t yo xj ya (Ethiopia)	pe f ri qa	p s ya Asia	Pi n s ti t yu t (Institute)

E. Typing-in punctuations of Ge'ez language

ዛዛሚ-ስምዒት ረጀሕታ ሐበሬታ፤ የስሜት-ሐሳብ መዛዘምያ፤

Keystrokes of symbols	Latin punctuations	;	:	'	"	,	<	.	>	/	?	,	.	?
	ግዕዝ-ብርሃን ሕንጻጽ	፥	፦	'	"	፣	<	።	>	/	፧	፣	።	፧
Press symbol + j	Codes for ", . /" + j											፣ +j	። +j	፧ +j

F. Typing-in the Ge'ez-notes (Milikit) using normal numbers

ዜማ-ምልክት ብሐበሬታ ቁጽሪ ይጽሐፍ፤ ዜማ-ምልክት በቁጥር ይጻፋል፤

	ይዘት	ጥረት	ቅናት	ሒደት	ድፍአት	ደረት	ርክርክ፤ ሐጺር	ርክርክ	ቁርጥ	ድርስ
Numbers ቁጥር	1	2	3	4	5	6	7	8	9	0
Milikit ምልክት	.	˒	⌣	⌤	⌒	⌣	፡	፧	ት	ስ
Press any number + o	*Ex: ".= 1 + o" "⌣ = 3 + o" "፧= 8 + o" "ት= 9 + o"*									

G. Editing the Ge'ez numbers using normal numbers

ግዕዝ አኃዛዊ-ቁጽሪ ብኞጽሪ ይጽሐፍ፤ የግዕዝ አኀዝ-ቁጥር በቁጥር ይጻፋል፤

	Edit any number followed by "u" char									
Numbers	0	1	2	3	4	5	6	7	8	9
ግዕዝ አኀዝ-ቁጥር	ፚ	፩	፪	፫	፬	፭	፮	፯	፰	፱
Numbers		10	20	30	40	50	60	70	80	90
ግዕዝ አኀዝ-ቁጥር		፲	፳	፴	፵	፶	፷	፸	፹	፺
Numbers		100	1000	10000						
ግዕዝ አኀዝ-ቁጥር		፻	፲፻	፼						
Press a number + u	*Ex: "2 + u = ፪" "4 + u = ፬" "8 + u = ፰"*									

Ge'ez Typing Table

Codes		Ge'ez alphabet list with codes									
shift	*letters*	+ Normal vowel							+ Shift vowel		
	Vowels	e	u	i	a	v	*id*	o	O	A	I
	h	ሀ	ሁ	ሂ	ሃ	ሄ	ህ	ሆ	ሇ		
	hj	ሐ	ሑ	ሒ	ሓ	ሔ	ሕ	ሖ		ሗ	
	l	ለ	ሉ	ሊ	ላ	ሌ	ል	ሎ	ሎ	ሏ	
	lj	ኀ	ኁ	ኂ	ኃ	ኄ	ኅ	ኆ	ኆ		
shift+	lj	ኈ		ኊ	ኋ	ኌ	ኍ				
	m	መ	ሙ	ሚ	ማ	ሜ	ም	ሞ	ሟ		ሚ
	mj	ሸ	ሹ	ሺ	ሻ	ሼ	ሽ	ሾ			
shift+	m	ሟ		ሚ	ማ	ሜ	ም				
shift+	mj	ሿ		ሺ	ሻ	ሼ	ሽ				
	r	ረ	ሩ	ሪ	ራ	ሬ	ር	ሮ	ሮ	ራ	ሪ
	rj	ሠ	ሡ	ሢ	ሣ	ሤ	ሥ	ሦ		ሣ	
	s	ሰ	ሱ	ሲ	ሳ	ሴ	ስ	ሶ	ሷ	ሲ	
	sj	ሸ	ሹ	ሺ	ሻ	ሼ	ሽ	ሾ	ሿ	ሺ	
shift+	s		ሡ	ሢ	ሣ	ሤ	ሥ	ሦ			
shift+	sj	ሿ	ሹ	ሺ	ሻ	ሼ	ሽ	ሾ			
	q	ቀ	ቁ	ቂ	ቃ	ቄ	ቅ	ቆ	ቋ		
	qj	ቐ	ቑ	ቒ	ቓ	ቔ	ቕ	ቖ			
shift+	q	ቈ		ቊ	ቋ	ቌ	ቍ				
shift+	qj	ቘ		ቚ	ቛ	ቜ	ቝ				
	b	በ	ቡ	ቢ	ባ	ቤ	ብ	ቦ	ቧ		
	bj	ቨ	ቩ	ቪ	ቫ	ቬ	ቭ	ቮ		ቪ	
shift+	b	ቧ		ቢ	ባ	ቤ	ቧ				
	t	ተ	ቱ	ቲ	ታ	ቴ	ት	ቶ	ቷ	ታ	
	tj	ቸ	ቹ	ቺ	ቻ	ቼ	ች	ቾ	ቿ	ቻ	
shift+	tj	ቿ	ቹ	ቺ	ቻ	ቼ	ች	ቾ			
	n	ነ	ኑ	ኒ	ና	ኔ	ን	ኖ	ኗ	ና	
	nj	ኘ	ኙ	ኚ	ኛ	ኜ	ኝ	ኞ	ኟ	ኛ	
shift+	n	ኗ	ኑ	ኒ	ና	ኔ	ን	ኖ			
shift+	nj	ኟ	ኙ	ኚ	ኛ	ኜ	ኝ	ኞ			
	p	አ	ኡ	ኢ	ኣ	ኤ	እ	ኦ	ኧ		ኢ
	pj	ዐ	ዑ	ዒ	ዓ	ዔ	ዕ	ዖ			
	k	ከ	ኩ	ኪ	ካ	ኬ	ክ	ኮ	ኰ		
	kj	ኸ	ኹ	ኺ	ኻ	ኼ	ኽ	ኾ			
shift+	k	ኰ		ኲ	ኳ	ኴ	ኵ				
shift+	kj	ዀ		ዂ	ዃ	ዄ	ዅ				
	w	ወ	ዉ	ዊ	ዋ	ዌ	ው	ዎ			
	wj	ፀ	ፁ	ፂ	ፃ	ፄ	ፅ	ፆ			

shift+	w	ቈ	ቊ	ቌ	ቃ	ቄ	ቅ	ቆ			
	z	ዘ	ዙ	ዚ	ዛ	ዜ	ዝ	ዞ	ዟ	ዠ	
	zj	ዠ	ዡ	ዢ	ዣ	ዤ	ዥ	ዦ		ዧ	
shift+	z	ዠ	ዡ	ዢ	ዣ	ዤ	ዥ	ዦ			
shift+	zj		ዡ	ዢ	ዣ	ዤ	ዥ	ዦ			
	y	የ	ዩ	ዪ	ያ	ዬ	ይ	ዮ	ዯ		
	yj	ዸ	ዹ	ዺ	ዻ	ዼ	ዽ	ዾ	ዿ	ደ	
shift+	yj		ዹ	ዺ	ዻ	ዼ	ዽ	ዾ			
	d	ደ	ዱ	ዲ	ዳ	ዴ	ድ	ዶ	ዷ	ዸ	
	dj	ጀ	ጁ	ጂ	ጃ	ጄ	ጅ	ጆ	ጇ	ጀ	
	g	ገ	ጉ	ጊ	ጋ	ጌ	ግ	ጎ	ጏ		
	gj	ጐ		ጒ	ጓ	ጔ	ጕ				
shift+	g	ኀ	ኁ	ኂ	ኃ	ኄ	ኅ	ኆ			
	c	ጠ	ጡ	ጢ	ጣ	ጤ	ጥ	ጦ	ጧ	ጨ	
	cj	ጨ	ጩ	ጪ	ጫ	ጬ	ጭ	ጮ	ጯ	ጰ	
shift+	c	ጨ	ጩ	ጪ	ጫ	ጬ	ጭ	ጮ			
shift+	cj	ጨ	ጩ	ጪ	ጫ	ጬ	ጭ	ጮ			
	x	ጸ	ጹ	ጺ	ጻ	ጼ	ጽ	ጾ		ጿ	
	xj	ፀ	ፁ	ፂ	ፃ	ፄ	ፅ	ፆ	ፇ		
shift+	x	ጸ	ጹ	ጺ	ጻ	ጼ	ጽ	ጾ			
	f	ፈ	ፉ	ፊ	ፋ	ፌ	ፍ	ፎ			ፏ
	fj	ፐ	ፑ	ፒ	ፓ	ፔ	ፕ	ፖ	ፗ		
shift+	f	ፈ		ፊ	ፋ	ፌ	ፍ				
shift+	fj	ፐ		ፒ	ፓ	ፔ	ፕ				

The keyboard Table of the computer

A. The keyboard table with references

ሥእሲ ተራ-ፊደል አብ ኮምፕዩተር፤ የኮምፕዩተር የአገዝ-ፊደል ሥእል፤

	.	ʾ	‿	﹎	﹍	﹏	:	፧	ቶ	ስ				Note +o
	፩	፪	፫	፬	፭	፮	፯	፰	፱	፲				Number +u
`	1	2	3	4	5	6	7	8	9	0	-	=		Number
~	!	@	#	$	%	^	&	*	(	)	_	+		Symbol
q	w	e	r	t	y	u	i	o	p	[{	]}	|		
ቀ	ው	አ	ር	ት	ይ	አ	ኢ	አ	እ	[	]	\		alpha
ቐ	ዕ	ሥ	ች	ድ				ዕ	{	}	|			alpha +j
a	s	d	f	g	h	j	k	l	;:	'"				
አ	ስ	ድ	ፍ	ግ	ህ	መብረ-ፊደል shift	ክ	ል	፡	'				alpha
ሽ	ጅ	ፕ	ጉ	ሕ		ኽ	ኅ	፦	"					alpha +j
z	x	c	v	b	n	m	,<	.>	/					
ዝ	ፅ	ጥ	ኤ	ብ	ን	ም	፤	፥	፡ /					alpha
ዥ	ፆ	ጮ		ሽ	ኝ	ኛ	<	>	?					alpha +j

The above table shows:

- The 1ˢᵗ row in green area shows the result of the Ge'ez alphabet with the support of "+u" and "+o".
- The following 2 rows are the keyboard number/symbol lists that will be common for Ge'ez and Latin.
- The 3 yellow other rows show the Latin alpha as a reference.
- The other pair rows of black and blue are the output of the alphabets. The black in normal key and the blue in "j" (like shift-key).
- The alpha in red colour are the 6 designated vowels.
- The additional 3 dot in red " , . / " are symbols list that become an output using the "j" support.
- The last column shows a memo to the main table.
  1) The 1st raw forms the shape of the base alphabet using the normal key and with the support of the "j" letter.
  2) The 2nd follows the shift task to shape a base alphabet, using the normal key and with support of the "j" letter.
  3) The 3rd raw represents the lists of alphabet with exceptions and form only one shape beginning the basic alpha. These are a form of 3rd, 4th, and 7th order from the common 7 orders the Ge'ez alphabets expands.

B. The reference shape of the list-keyboard

ሥእሊ ተራ-ፊደል አብ ኮምፒዩተር፥ የኮምፒዩተር የአገዝ-ፊደል ሥእል፥

`	1	2	3	4	5	6	7	8	9	0	-	=
~	!	@	#	$	%	^	&	*	(	)	_	+

ቅ	ው	አ	ር	ት	ይ	ኡ	ኢ	አ	እ	[	]	\
ቐ	ዕ	ሥ	ች	ድ				ዕ	{	}	|

እ	ስ	ድ	ፍ	ግ	ህ	መብረ-ፊደል shift	ክ	ል	፤	'
	ሸ	ጅ	ፕ	ጉ	ሕ		ኽ	ኅ	:-	"

ዝ	ጸ	ጥ	ኤ	ብ	ን	ም	:,	፥.	፤/
ዥ	ፀ	ጭ		ሽ	ኛ	ኻ	<	>	?

C. The Ge'ez alphabet lists in reference to the shape-development

ዝርዝር ፊደል-ግዕዝ አብ ሥርዓት-ቅርጹ፥ የአገዝ-ፊደል ሥርዓት-ቅርጽ በኮምፒዩተር፥

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All Documentation Versions

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