# Typing in the Geʾez Languages of Ethiopia & Eritrea

ሀ

The Modern Geʾez keyboard ( ) is designed to make it easy to type all 523 letters, punctuation and numerals specified for “Ethiopic Script” in the Unicode standard. In addition, this keyboard package provides two additional fonts to help type 59 “alternative” letter shapes (Appendix A).

The languages of Ethiopian and Eritrea that use the Geʾez script have many additions. The languages also use the same letters but sometimes with different sounds. A number of letters that were in use by a language for a short time were also abandoned. The keyboard package groups letters currently in use as the “Modern Geʾez Syllabary”, and letters formerly in use as the “Legacy Geʾez Syllabary” (Appendix B & C). The letters in use are given the higher priority and are a little easier to type and enter on touchscreen layouts.

Typing letters follows the spoken sounds and are matched to corresponding English letters (a style called “phonetic”). You can think of how a word sounds and then type it out with English.

Example: typing **selam** becomes ሰላም

Because Ethio-Eri languages have more sounds than English does, we sometimes have to adjust this rule. For example, English does not have ‘ጠ’ and the closest similar letter would be ‘t’. In this case you should type with “capital T”:

Example: typing **TienaysTlN** becomes ጤናይስጥልኝ

When the letter you want to type does not appear when you hit the similar sounding key in English, try using the capital next. If typing the capital does not work, then try hitting the key two times:

Example: typing **sselam** becomes ሠላም  
Example: typing **SSeHey** becomes ፀሐይ

Next, when you need to type the extra letters of Amharic and other languages like: ሏ፣ ሟ፣ ኴ you can do so by typing an extra vowel after a ‘u’:

Example: typing **mua** becomes ሟ

Example: typing **guie** becomes ጔ

Finally, we must introduce a special rule for ' (apostrophe). Some words are spelt with a ሳድስ (6th) letter followed by a vowel, like ርኤ in ገብርኤል. We use the apostrophe here to type “gebr'iel” to make sure we get “ርኤ” instead of ‘ሬ’.

Example: typing **mel'ak** becomes መልአክ  
Example: typing **m'Eraf** becomes ምዕራፍ

If an apostrophe, **'**, is needed after a ሳድስ letter in your document, type it twice like:

Example: k**''** to produce ክ’

The following typing tables show how to type all Modern and Legacy Geʾez letters, numbers, and punctuation.

# Modern Geʾez Typing Table

| ግዕዝ | ካዕብ | ሣልስ | ራብዕ | ኃምስ | ሳድስ | ሳብዕ | ዘመደ- ግዕዝ | ዘመደ- ሣልስ | ዘመደ- ራብዕ | ዘመደ- ኃምስ | ዘመደ- ሳድስ |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ሀ he | ሁ hu | ሂ hi | ሃ ha | ሄ hie | ህ h | ሆ ho |  |  |  |  |  |
| ለ le | ሉ lu | ሊ li | ላ la | ሌ lie | ል l | ሎ lo |  |  | ሏ lua |  |  |
| ሐ He | ሑ Hu | ሒ Hi | ሓ Ha | ሔ Hie | ሕ H | ሖ Ho | 𞟨 kue | 𞟪 kui | ሗ kua | 𞟪 kuie | 𞟫 kuu |
| 𞟠 HHe | 𞟡 HHu | 𞟢 HHi | 𞟣 HHa | 𞟤 HHie | 𞟥 HH | 𞟦 HHo |  |  |  |  |  |
| መ me | ሙ mu | ሚ mi | ማ ma | ሜ mie | ም m | ሞ mo | ᎀ kue | 𞟭 kui | ሟ kua | 𞟮 kuie | ᎃ kuu |
| ሠ sse | ሡ ssu | ሢ ssi | ሣ ssa | ሤ ssie | ሥ ss | ሦ sso |  |  | ሧ ssua |  |  |
| ረ re | ሩ ru | ሪ ri | ራ ra | ሬ rie | ር r | ሮ ro |  |  | ሯ rua |  |  |
| ሰ se | ሱ su | ሲ si | ሳ sa | ሴ sie | ስ s | ሶ so |  |  | ሷ sua |  |  |
| ሸ xe | ሹ xu | ሺ xi | ሻ xa | ሼ xie | ሽ x | ሾ xo |  |  | ሿ xua |  |  |
| ቀ qe | ቁ qu | ቂ qi | ቃ qa | ቄ qie | ቅ q | ቆ qo | ቈ que | ቊ qui | ቋ qua | ቌ quie | ቍ quu |
| ቐ  Qe | ቑ  Qu | ቒ  Qi | ቓ  Qa | ቔ  Qie | ቕ  Q | ቖ  Qo | ቘ  Que | ቚ  Qui | ቛ  Qua | ቜ  Quie | ቝ  Quu |
| በ be | ቡ bu | ቢ bi | ባ ba | ቤ bie | ብ b | ቦ bo | ᎄ bue | 𞟳 bui | ቧ bua | 𞟴 buie | ᎇ buu |
| ቨ ve | ቩ vu | ቪ vi | ቫ va | ቬ vie | ቭ v | ቮ vo |  |  | ቯ vua |  |  |
| ተ te | ቱ tu | ቲ ti | ታ ta | ቴ tie | ት t | ቶ to |  |  | ቷ tua |  |  |
| ቸ ce | ቹ cu | ቺ ci | ቻ ca | ቼ cie | ች c | ቾ co |  |  | ቿ cua |  |  |
| ኀ hhe | ኁ hhu | ኂ hhi | ኃ hha | ኄ hhie | ኅ hh | ኆ hho | ኈ hue | ኊ hui | ኋ hua | ኌ huie | ኍ huu |
| ነ ne | ኑ nu | ኒ ni | ና na | ኔ nie | ን n | ኖ no |  |  | ኗ nua |  |  |
| ኘ Ne | ኙ Nu | ኚ Ni | ኛ Na | ኜ Nie | ኝ N | ኞ No |  |  | ኟ Nua |  |  |
| አ a | ኡ u | ኢ i | ኣ aa | ኤ ie | እ e | ኦ o |  |  | ኧ  ae |  |  |
| ከ ke | ኩ ku | ኪ ki | ካ ka | ኬ kie | ክ k | ኮ ko | ኰ kue | ኲ kui | ኳ kua | ኴ kuie | ኵ kuu |
| ኸ Ke | ኹ Ku | ኺ Ki | ኻ Ka | ኼ Kie | ኽ K | ኾ Ko | ዀ Kue | ዄ Kui | ዃ Kua | ዄ Kuie | ዅ Kuu |
| ወ we | ዉ wu | ዊ wi | ዋ wa | ዌ wie | ው w | ዎ wo |  |  |  |  |  |
| ዐ A | ዑ Au / U | ዒ Ai / I | ዓ Aa | ዔ Aie / Ie | ዕ E | ዖ Ao / O |  |  |  |  |  |
| ዘ ze | ዙ zu | ዚ zi | ዛ za | ዜ zie | ዝ z | ዞ zo |  |  | ዟ zua |  |  |
| ዠ Ze | ዡ Zu | ዢ Zi | ዣ Za | ዤ Zie | ዥ Z | ዦ Zo |  |  | ዧ Zua |  |  |
| የ ye | ዩ yu | ዪ yi | ያ ya | ዬ yie | ይ y | ዮ yo |  |  |  |  |  |
| ደ de | ዱ du | ዲ di | ዳ da | ዴ die | ድ d | ዶ do |  |  | ዷ dua |  |  |
| ጀ je | ጁ ju | ጂ ji | ጃ ja | ጄ jie | ጅ j | ጆ jo |  |  | ጇ jua |  |  |
| ገ ge | ጉ gu | ጊ gi | ጋ ga | ጌ gie | ግ g | ጎ go | ጐ gue | ጒ gui | ጓ gua | ጔ guie | ጕ guu |
| ጘ  Ge | ጙ  Gu | ጚ  Gi | ጛ  Ga | ጜ  Gie | ጝ  G | ጞ  Go | ⶓ  Gue | ⶔ  Gui | ጟ  Gua | ⶕ  Guie | ⶖ  Guu |
| ጠ Te | ጡ Tu | ጢ Ti | ጣ Ta | ጤ Tie | ጥ T | ጦ To |  |  | ጧ Tua |  |  |
| ጨ Ce | ጩ Cu | ጪ Ci | ጫ Ca | ጬ Cie | ጭ C | ጮ Co |  |  | ጯ Cua |  |  |
| ጰ Pe | ጱ Pu | ጲ Pi | ጳ Pa | ጴ Pie | ጵ P | ጶ Po |  |  | ጷ Pua |  |  |
| ጸ Se | ጹ Su | ጺ Si | ጻ Sa | ጼ Sie | ጽ S | ጾ So |  |  | ጿ Sua |  |  |
| ፀ SSe | ፁ SSu | ፂ SSi | ፃ SSa | ፄ SSie | ፅ SS | ፆ SSo |  |  |  |  |  |
| ፈ fe | ፉ fu | ፊ fi | ፋ fa | ፌ fie | ፍ f | ፎ fo | ᎈ fue | 𞟻 fui | ፏ fua | 𞟼 fuie | ᎋ fuu |
| ፐ pe | ፑ pu | ፒ pi | ፓ pa | ፔ pie | ፕ p | ፖ po | ᎌ pue | 𞟽 pui | ፗ pua | 𞟾 puie | ᎏ puu |

**Modern Gurage Shapes**

Modern Gurage uses some letter shapes that modify the traditional Geʾez shapes used by other languages. Both can be typed, but priority is given to the Geʾez shapes. In these cases when two shapes are available, the Gurage shape can be typed by adding an extra vowel as shown in the table below:

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Geʾez Shape** | ቊ  qui | ቌ  quie | ቍ  quu | ኲ  kui | ኴ  kuie | ኵ  kuu | ጒ  gui | ጔ  guie | ጕ  guu |
| **Modern Gurage Shape** | 𞟰  quii | 𞟱  quiie | 𞟲  quuu | 𞟵  kuii | 𞟶  kuiie | 𞟷  kuuu | 𞟸  guii | 𞟹  guiie | 𞟺  guuu |

# Legacy Geʾez Typing Table

| ግዕዝ | ካዕብ | ሣልስ | ራብዕ | ኃምስ | ሳድስ | ሳብዕ | ሳምን | ዘመደ-ግዕዝ | ዘመደ-ሣልስ | ዘመደ-ራብዕ | ዘመደ -ኃምስ | ዘመደ-ሳድስ | ዘመደ-ያ |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  | ሇ  hoo |  |  |  |  |  |  |
|  |  |  |  |  |  |  | ⶀ  loo |  |  |  |  |  |  |
|  |  |  |  |  |  |  | ⶁ  moo |  | ᎁ  mui |  | ᎂ muie |  | ፙ mY |
|  |  |  |  |  |  |  | ⶂ  roo |  |  |  |  |  | ፘ  rY |
|  |  |  |  |  |  |  | ⶃ  soo |  |  |  |  |  |  |
|  | ꬁ  sssu | ꬂ  sssi | ꬃ  sssa | ꬄ  sssie | ꬅ  sss | ꬆ  ssso |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  | ⶄ  xoo |  |  |  |  |  |  |
| ⶠ  xxe | ⶡ  xxu | ⶢ  xxi | ⶣ  xxa | ⶤ  xxie | ⶥ  xx | ⶦ  xxo |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  | ቇ  qoo |  |  |  |  |  |  |
| ⷀ  qqe | ⷁ  qqu | ⷂ  qqi | ⷃ  qqa | ⷄ  qqie | ⷅ  qq | ⷆ  qqo |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  | ⶅ  boo |  | ᎅ bui |  | ᎆ buie |  |  |
|  |  |  |  |  |  |  | ⶆ  too |  |  |  |  |  |  |
|  |  |  |  |  |  |  | ⶇ  coo |  |  |  |  |  |  |
| ⶨ cce | ⶩ  ccu | ⶪ  cci | ⶫ  cca | ⶬ  ccie | ⶭ  cc | ⶮ  cco |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  | ኇ  hhoo |  |  |  |  |  |  |
|  |  |  |  |  |  |  | ⶈ  noo |  |  |  |  |  |  |
|  |  |  |  |  |  |  | ⶉ  Noo |  |  |  |  |  |  |
|  |  |  |  |  |  |  | ⶊ  oo |  |  |  |  |  |  |
|  |  |  |  |  |  |  | ኯ  koo |  |  |  |  |  |  |
| ⷈ kke | ⷉ  kku | ⷊ  kki | ⷋ  kka | ⷌ  kkie | ⷍ  kk | ⷎ  kko |  |  |  |  |  |  |  |
| ⷐ  KKe | ⷑ  KKu | ⷒ  KKi | ⷓ  KKa | ⷔ  KKie | ⷕ  KK | ⷖ  KKo |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  | ዏ  woo |  |  |  |  |  |  |
|  |  |  |  |  |  |  | ⶋ  zoo |  |  |  |  |  |  |
|  | ꬑ zzu | ꬒ  zzi | ꬓ  zza | ꬔ  zzie | ꬕ  zz | ꬖ  zzo |  |  |  |  |  |  |  |
| ⶰ ZZe | ⶱ  ZZu | ⶲ  ZZi | ⶳ  ZZa | ⶴ  ZZie | ⶵ  ZZ | ⶶ  ZZo |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  | ዯ  yoo |  |  |  |  |  |  |
|  |  |  |  |  |  |  | ⶌ  doo |  |  |  |  |  |  |
| ዸ De | ዹ  Du | ዺ  Di | ዻ  Da | ዼ  Die | ዽ  D | ዾ  Do | ⶍ  Doo |  |  |  |  |  |  |
|  | ꬉ ddu | ꬊ  ddi | ꬋ  dda | ꬌ  ddie | ꬍ  dd | ꬎ  ddo |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  | ⶎ  joo |  |  |  |  |  |  |
|  |  |  |  |  |  |  | ጏ  goo |  |  |  |  |  |  |
| ⷘ gge | ⷙ  ggu | ⷚ  ggi | ⷛ  gga | ⷜ  ggie | ⷝ  gg | ⷞ  ggo |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  | ⶏ  Too |  |  |  |  |  |  |
|  |  |  |  |  |  |  | ⶐ  Coo |  |  |  |  |  |  |
|  | ⶹ  CCu | ⶺ  CCi | ⶻ  CCa | ⶼ  CCie | ⶽ  CC | ⶾ  CCo |  |  |  |  |  |  |  |
| ꬠ  CCCe | ꬡ  CCCu | ꬢ  CCCi | ꬣ  CCCa | ꬤ  CCCie | ꬥ  CCC | ꬦ  CCCo |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  | ⶑ  Poo |  |  |  |  |  |  |
| ꬨ  SSe | ꬩ  SSu | ꬪ  SSi | ꬫ  SSa | ꬬ  SSie | ꬭ  SS | ꬮ  SSo |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  | ፇ  Soo |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  | ᎉ  fui |  | ᎊ fuie |  | ፚ  fY |
|  |  |  |  |  |  |  | ⶒ  poo |  | ᎍ pui |  | ᎎ  puie |  |  |

**Consonant and Vowel Marks**

Dots can be added above letters to indicate a stressed vowel or consonant using “**CTRL + .** ”. For example:

አባ **CTRL .** ⇒ አባ፞ (“abaa”, “a” is stressed)  
 አባ፞ **CTRL .** ⇒ አባ፟ (“abba”, “b” is stressed)  
 አባ፟ **CTRL .** ⇒ አባ፝ (“abbaa”, “b” and “a” are stressed)

**Typing Punctuation**

**Ethiopic Punctuation**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ፡ : | ። :: | ፣ , | ፤ ; | ፦ :- | ፥ ,, | ፧ ?? | ፠ :+ | ፨ :# |

|  |  |  |  |
| --- | --- | --- | --- |
| ‹ < | › > | « << | » >> |

Period, ‘.’ may also be used to enter ‘።’. When a number follows ‘፡’, ‘፣’ and ‘።’ they will change back to their Latin form automatically. For example:

123፣456 ⇒ 123,456 , 12።50 ⇒ 12.50 , 12፡50 ⇒ 12:50

**Keyboard Punctuation**

All regular punctuation on your keyboard remains available. Most punctuation can be typed with a single keystroke as usual. Those used to input Ethiopic symbols can be entered by hitting the punctuation key two or more times until it appears.

**Typing Numbers**

The hash mark is used Ge’ez numbers, so #1 becomes ፩ and so on. When a ‘**#**’ is needed before a number in your document, just type **#** twice.

**Ethiopic Numerals**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ፩ #1 | ፪ #2 | ፫ #3 | ፬ #4 | ፭ #5 | ፮ #6 | ፯ #7 | ፰ #8 | ፱ #9 |  |  |  |
| ፲ #10 | ፳ #20 | ፴ #30 | ፵ #40 | ፶ #50 | ፷ #60 | ፸ #70 | ፹ #80 | ፺ #90 | ፻ #100 | ፲፻ #1000 | ፼ #10000 |

Numeral composition will continue as 0s are entered up to ፼፼ (100,000,000).

The “connected” style of Ethiopic numerals can be created by changing the font from “Abyssinica SIL” to “Abyssinica SIL Connected” as seen in the following table:

|  |  |
| --- | --- |
| **Abyssinica SIL** | **Abyssinica SIL Connected** |
| ፲፱፻፹፫ | ፲፱፻፹፫ |

**Appendix A: Alternative Letter Shapes**

The shapes of letters may change over the centuries, and by region, language, or individual, etc. The Abyssinica SIL font provides the most commonly found variant shapes. The alternative shapes are typed as you would the regular shapes, however an “alternate” font must be selected. The fonts “Abyssinica SIL Alternate 1” and “Abyssinica SIL Alternate 2” are installed with this keyboard package and may be selected as shown in the following tables to reveal the alternative letter shapes.

|  |  |
| --- | --- |
| **Abyssinica SIL (Standard)** | ኘ ኙ ኚ ኛ ኜ ኝ ኞ ኟ |
| **Abyssinica SIL Alternate 1** | ኘ ኙ ኚ ኛ ኜ ኝ ኞ ኟ |

|  |  |
| --- | --- |
| **Abyssinica SIL (Standard)** | ዠ ዡ ዢ ዣ ዤ ዥ ዦ |
| **Abyssinica SIL Alternate 2** | ዠ ዡ ዢ ዣ ዤ ዥ ዦ |

|  |  |
| --- | --- |
| **Abyssinica SIL (Standard)** | ዸ ዹ ዺ ዻ ዼ ዽ ዾ |
| **Abyssinica SIL Alternate 1** | ዸ ዹ ዺ ዻ ዼ ዽ ዾ |

|  |  |
| --- | --- |
| **Abyssinica SIL (Standard)** | ኈ ኊ ኋ ኌ ኍ |
| **Abyssinica Alternate 1** | ኈ ኊ ኋ ኌ ኍ |

|  |  |
| --- | --- |
| **Abyssinica SIL (Standard)** | ጘ ጙ ጚ ጛ ጜ ጝ ጞ |
| **Abyssinica SIL Alternate 1** | ጘ ጙ ጚ ጛ ጜ ጝ ጞ |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Abyssinica SIL**  **(Standard)** | **Abyssinica SIL Alternate 1** |  | **Abyssinica SIL**  **(Standard)** | **Abyssinica SIL Alternate 1** | **Abyssinica SIL Alternate 2** |
| ፙ | ፙ |  | ሟ | ሟ | ሟ |
| ሯ | ሯ |  | ᎁ | ᎁ | ᎁ |
| ፘ | ፘ |  | ᎃ | ᎃ | ᎃ |
| ᎅ | ᎅ |  | ኟ | ኟ | ኟ |
| ኇ | ኇ |  | ጓ | ጓ | ጓ |
| ኗ | ኗ |  | ፏ | ፏ | ፏ |
| ዃ | ዃ |  |  |  |  |
| ጟ | ጟ |  |  |  |  |
| ጵ | ጵ |  |  |  |  |
| ጿ | ጿ |  |  |  |  |
| ᎋ | ᎋ |  |  |  |  |
| ᎊ | ᎊ |  |  |  |  |
| ᎍ | ᎍ |  |  |  |  |
| ዥ | ዥ |  |  |  |  |

**Appendix A:  
The Modern Ge**ʾ**ez Syllabary**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | ***-ə*** | ***-u*** | ***-i*** | ***-a*** | ***-e*** | ***-(ɨ)*** | ***-o*** | ***-ʷə*** | ***-ʷi*** | ***-ʷa*** | ***-ʷe*** | ***-ʷ(ɨ)*** |
| ***h*** | ሀ | ሁ | ሂ | ሃ | ሄ | ህ | ሆ |  |  |  |  |  |
| ***l*** | ለ | ሉ | ሊ | ላ | ሌ | ል | ሎ |  |  | ሏ |  |  |
| ***ḥ*** | ሐ | ሑ | ሒ | ሓ | ሔ | ሕ | ሖ | 𞟨 | 𞟩 | ሗ | 𞟪 | 𞟫 |
| ***x***ʸ | 𞟠 | 𞟡 | 𞟢 | 𞟣 | 𞟤 | 𞟥 | 𞟦 |  |  |  |  |  |
| ***m*** | መ | ሙ | ሚ | ማ | ሜ | ም | ሞ | ᎀ | 𞟭 | ሟ | 𞟮 | ᎃ |
| ***s*** | ሠ | ሡ | ሢ | ሣ | ሤ | ሥ | ሦ |  |  | ሧ |  |  |
| ***r*** | ረ | ሩ | ሪ | ራ | ሬ | ር | ሮ |  |  | ሯ |  |  |
| ***s*** | ሰ | ሱ | ሲ | ሳ | ሴ | ስ | ሶ |  |  | ሷ |  |  |
| ***š*** | ሸ | ሹ | ሺ | ሻ | ሼ | ሽ | ሾ |  |  | ሿ |  |  |
| ***q*** | ቀ | ቁ | ቂ | ቃ | ቄ | ቅ | ቆ | ቈ | ቊ/𞟰 | ቋ | ቌ/𞟱 | ቍ/𞟲 |
| ***q̱*** | ቐ | ቑ | ቒ | ቓ | ቔ | ቕ | ቖ | ቘ | ቚ | ቛ | ቜ | ቝ |
| ***b*** | በ | ቡ | ቢ | ባ | ቤ | ብ | ቦ | ᎄ | 𞟳 | ቧ | 𞟴 | ᎇ |
| **v** | ቨ | ቩ | ቪ | ቫ | ቬ | ቭ | ቮ |  |  | ቯ |  |  |
| ***t*** | ተ | ቱ | ቲ | ታ | ቴ | ት | ቶ |  |  | ቷ |  |  |
| ***č*** | ቸ | ቹ | ቺ | ቻ | ቼ | ች | ቾ |  |  | ቿ |  |  |
| ***h*** | ኀ | ኁ | ኂ | ኃ | ኄ | ኅ | ኆ | ኈ | ኊ | ኋ | ኌ | ኍ |
| ***n*** | ነ | ኑ | ኒ | ና | ኔ | ን | ኖ |  |  | ኗ |  |  |
| ***ñ*** | ኘ | ኙ | ኚ | ኛ | ኜ | ኝ | ኞ |  |  | ኟ |  |  |
| ***ʾ*** | አ | ኡ | ኢ | ኣ | ኤ | እ | ኦ |  |  | ኧ |  |  |
| ***k*** | ከ | ኩ | ኪ | ካ | ኬ | ክ | ኮ | ኰ | ኲ/𞟵 | ኳ | ኴ/𞟶 | ኵ/𞟷 |
| ***x*** | ኸ | ኹ | ኺ | ኻ | ኼ | ኽ | ኾ | ዀ | ዂ | ዃ | ዄ | ዅ |
| ***w*** | ወ | ዉ | ዊ | ዋ | ዌ | ው | ዎ |  |  |  |  |  |
| ***ʿ*** | ዐ | ዑ | ዒ | ዓ | ዔ | ዕ | ዖ |  |  |  |  |  |
| ***z*** | ዘ | ዙ | ዚ | ዛ | ዜ | ዝ | ዞ |  |  | ዟ |  |  |
| ***ž*** | ዠ | ዡ | ዢ | ዣ | ዤ | ዥ | ዦ |  |  | ዧ |  |  |
| ***y*** | የ | ዩ | ዪ | ያ | ዬ | ይ | ዮ |  |  |  |  |  |
| ***d*** | ደ | ዱ | ዲ | ዳ | ዴ | ድ | ዶ |  |  | ዷ |  |  |
| ***ǧ*** | ጀ | ጁ | ጂ | ጃ | ጄ | ጅ | ጆ |  |  | ጇ |  |  |
| ***g*** | ገ | ጉ | ጊ | ጋ | ጌ | ግ | ጎ | ጐ | ጒ/𞟸 | ጓ | ጔ/𞟹 | ጕ/𞟺 |
| ***ŋ*** | ጘ | ጙ | ጚ | ጛ | ጜ | ጝ | ጞ | ⶓ | ⶔ | ጟ | ⶕ | ⶖ |
| ***ṭ*** | ጠ | ጡ | ጢ | ጣ | ጤ | ጥ | ጦ |  |  | ጧ |  |  |
| ***č̣*** | ጨ | ጩ | ጪ | ጫ | ጬ | ጭ | ጮ |  |  | ጯ |  |  |
| ***p̣*** | ጰ | ጱ | ጲ | ጳ | ጴ | ጵ | ጶ |  |  | ጷ |  |  |
| ***ṣ*** | ጸ | ጹ | ጺ | ጻ | ጼ | ጽ | ጾ |  |  | ጿ |  |  |
| ***ṣ*** | ፀ | ፁ | ፂ | ፃ | ፄ | ፅ | ፆ |  |  |  |  |  |
| ***f*** | ፈ | ፉ | ፊ | ፋ | ፌ | ፍ | ፎ | ᎈ | 𞟻 | ፏ | 𞟼 | ᎋ |
| ***p*** | ፐ | ፑ | ፒ | ፓ | ፔ | ፕ | ፖ | ᎌ | 𞟽 | ፗ | 𞟾 | ᎏ |

**Appendix B:**

**The Legacy Ge**ʾ**ez Syllabary**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | ***-ə*** | ***-u*** | ***-i*** | ***-a*** | ***-e*** | ***-(ɨ)*** | ***-o*** | ***-ɔ*** | ***-ʷə*** | ***-ʷi*** | ***-ʷa*** | ***-ʷe*** | ***-ʷ(ɨ)*** | ***-ya*** |
| ***h*** |  |  |  |  |  |  |  | ሇ |  |  |  |  |  |  |
| ***l*** |  |  |  |  |  |  |  | ⶀ |  |  |  |  |  |  |
| ***m*** |  |  |  |  |  |  |  | ⶁ |  | ᎁ |  | ᎂ |  | ፙ |
| ***r*** |  |  |  |  |  |  |  | ⶂ |  |  |  |  |  | ፘ |
| ***s*** |  |  |  |  |  |  |  | ⶃ |  |  |  |  |  |  |
| ***ts*** |  | ꬁ | ꬂ | ꬃ | ꬄ | ꬅ | ꬆ |  |  |  |  |  |  |  |
| ***š*** |  |  |  |  |  |  |  | ⶄ |  |  |  |  |  |  |
| ***ʂ*** |  | ⶡ | ⶢ | ⶣ | ⶤ | ⶥ | ⶦ |  |  |  |  |  |  |  |
| ***q*** |  |  |  |  |  |  |  | ቇ |  |  |  |  |  |  |
| ***ḳʸ*** | ⷀ | ⷁ | ⷂ | ⷃ | ⷄ | ⷅ | ⷆ |  |  |  |  |  |  |  |
| ***b*** |  |  |  |  |  |  |  | ⶅ |  | ᎅ |  | ᎆ |  |  |
| ***t*** |  |  |  |  |  |  |  | ⶆ |  |  |  |  |  |  |
| ***č*** |  |  |  |  |  |  |  | ⶇ |  |  |  |  |  |  |
| ***tʂ*** |  | ⶩ | ⶪ | ⶫ | ⶬ | ⶭ | ⶮ |  |  |  |  |  |  |  |
| ***ŋ*** |  |  |  |  |  |  |  | ኇ |  |  |  |  |  |  |
| ***n*** |  |  |  |  |  |  |  | ⶈ |  |  |  |  |  |  |
| ***ñ*** |  |  |  |  |  |  |  | ⶉ |  |  |  |  |  |  |
| ***ʾ*** |  |  |  |  |  |  |  | ⶊ |  |  |  |  |  |  |
| ***k*** |  |  |  |  |  |  |  | ኯ |  |  |  |  |  |  |
| ***kʸ*** | ⷈ | ⷉ | ⷊ | ⷋ | ⷌ | ⷍ | ⷎ |  |  |  |  |  |  |  |
| ***x***ʸ | ⷐ | ⷑ | ⷒ | ⷓ | ⷔ | ⷕ | ⷖ |  |  |  |  |  |  |  |
| ***w*** |  |  |  |  |  |  |  | ዏ |  |  |  |  |  |  |
| ***z*** |  |  |  |  |  |  |  | ⶋ |  |  |  |  |  |  |
| ***dz*** |  | ꬑ | ꬒ | ꬓ | ꬔ | ꬕ | ꬖ |  |  |  |  |  |  |  |
| ***ʐ*** |  | ⶱ | ⶲ | ⶳ | ⶴ | ⶵ | ⶶ |  |  |  |  |  |  |  |
| ***y*** |  |  |  |  |  |  |  | ዯ |  |  |  |  |  |  |
| ***d*** |  |  |  |  |  |  |  | ⶌ |  |  |  |  |  |  |
| ***ɗ*** | ዸ | ዹ | ዺ | ዻ | ዼ | ዽ | ዾ | ⶍ |  |  |  |  |  |  |
| ***ɗ*** |  | ꬉ | ꬊ | ꬋ | ꬌ | ꬍ | ꬎ |  |  |  |  |  |  |  |
| ***ǧ*** |  |  |  |  |  |  |  | ⶎ |  |  |  |  |  |  |
| ***g*** |  |  |  |  |  |  |  | ጏ |  |  |  |  |  |  |
| ***g*ʸ** | ⷘ | ⷙ | ⷚ | ⷛ | ⷜ | ⷝ | ⷞ |  |  |  |  |  |  |  |
| ***ṭ*** |  |  |  |  |  |  |  | ⶏ |  |  |  |  |  |  |
| ***č̣*** |  |  |  |  |  |  |  | ⶐ |  |  |  |  |  |  |
| ***cʼ*** | ꬠ | ꬡ | ꬢ | ꬣ | ꬤ | ꬥ | ꬦ |  |  |  |  |  |  |  |
| ***tʂʼ*** |  | ⶹ | ⶺ | ⶻ | ⶼ | ⶽ | ⶾ |  |  |  |  |  |  |  |
| ***ɓ*** | ꬨ | ꬩ | ꬪ | ꬫ | ꬬ | ꬭ | ꬮ |  |  |  |  |  |  |  |
| ***p̣*** |  |  |  |  |  |  |  | ⶑ |  |  |  |  |  |  |
| ***ṣ*** |  |  |  |  |  |  |  | ፇ |  |  |  |  |  |  |
| ***f*** |  |  |  |  |  |  |  |  |  | ᎉ |  | ᎊ |  | ፚ |
| ***p*** |  |  |  |  |  |  |  | ⶒ |  | ᎍ |  | ᎎ |  |  |