# SDME SALIDET FEATURES DF 

 THE SINHALA ALPHADET
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## SOWE SAL.NEMT PEATURES DF THE SINHALA ALPHAEET

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# SOME SALIENT FEATURES OF THE SINHALA ALPHABET 

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In designing the Sinhala keyboard for the computer, it will be necessary to take into account some of the salient features of the Sinhala alphabet. A keyboard for the typewriter or computer has, in general, two kinds of symbols:

1. Non-linguistic symbols
2. Linguistic symbols

## 1. Non-linguistic symbols

Non-linguistic symbols include the following:
(i) numerals
(ii) mathematical symbols
(iii) punctuation marks and
(iv) a few others such as $\$$ \&

## 2. Linguistic symbols

Linguistic symbols are those that denote the sounds of a given language. The sounds of a language are of two kinds:
(i) Vowels (svara)
(ii) Consonants (vyanjana)

The Sinhala keyboard will need 4 kinds of linguistic symbols to denote the vowels and consonants of Modern Sinhala:
2.1 Vowel Letters (pra:na:kshara)
2.2 Consonant Letters (ga:tra:kshara)
2.3 Vowel Strokes (svara pili)
2.4 Consonant Strokes (vyanjana pili)

### 2.1 Vowel Letters

A Vowel Letter is a symbol that stands for a vowel sound which occurs at the beginning of a Sinhala word. The UNICODE contains 18 vowel letters but Modern Sinhala needs only the following 16 vowel letters:

| 1 | Vowel Letter © | Sound [a] | Example © © © |
| :---: | :---: | :---: | :---: |
| 2 | ¢) | [ a: ] | q) |
| 3 | Cl | [ ae ] | ¢ $\chi^{\text {c }}$ |
| 4 | 42 | [ ae: ] | 420 |
| 5 | 8 | [i] | 80 |
| 6 | 0 | [ i: ] | \% $\omega$ |
| 7 | $c$ | [u] | ecco |
| 8 | Co | [ $\mathrm{u}:$ ] | e90) |
| 9 | ธ® | [ ri ] | © 50 |

10 อвя
[ ri: ]
No example

11
0
[e]
อ ది

12
E
[ e :]
อิ ถ

1300
[ai]
$\infty$ © ณ

14
®
[o]
(2)

15 ©
[ 0: ] बิ ฉ

16
© 9
[au] $\quad \infty \otimes$ a

There are 2 more vowel letters in the UNICODE but they are not in use today. UNICODE retains them as OD8F (short vowel) OD90 (long vowel)

### 2.2 Consonant Letters

A Consonant Letter is a symbol that stands for a consonant sound.
Sinhala has 43 consonant letters, as follow s:

| \% | (1) | © | (8) | (1) | 0 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| k | kh | g | gh | ng | ñg |  |
| 0 | $\sigma$ | 0 | - | ER | ese | 0 |
| c | ch | j | jh | gn | gn | nj |
| 0 | 0 | ® | d | 0 | (1) |  |
| t | th | d | dh | n | ñd |  |
| 0 | 0 | c | ๑ | 0 | $e$ |  |
| t | th | d | dh | n | ñd |  |
| 8 | 0 | Q | 0 | O | Q |  |
| p | ph | b | bh | m | ก̃ b |  |
| $\omega$ | 0 | (e) | 0 | 0 | 5 | $\omega$ |
| y | r | I | V | sh | sh | S |
| $0)$ | E | $\cdots$ | - | : |  |  |
| h | 1 | f | ng | h |  |  |

Of these letters the following 3 differ from the others in status:

| ng | ng | i |
| :--- | :--- | :--- |

## (i) The letter (1)

This is hardly used in modem Sinhala writing. When it is used, it is always in combination with the vowel remover.No other stroke is used with this.

| อิ | (eటై) | ఉอิ๑ |
| :---: | :---: | :---: |
|  | (9) |  |

In modern writing it is usually replaced by the letter - (known as anusva:ra)
-

| (1)దు | - 0 |
| :---: | :---: |
| $(00(0)$ | ©0® |

(ii) The letter: - ( anusva:ra)

This letter is of frequent occurence but no stroke occurs with it. It comes as the very first symbol in the UNICODE.

## OD82

(iii) The letter: 8 ( visarga)

This letter is of rare occurence and no stroke occurs with it. It comes as the second symbol in the UNICODE.

## OD83

The UNICODE has placed these two symbols at the very beginning of the alphabet. i.e. even before the vowel letters, because fall into a small subset of consonants. These two letters do not enjoy the potentialities of the other consonant letters of Sinhala. Most Indian alphabets also have equivalents and the UNICODE has placed these letters also at the very beginning of those alphabets.

## 2．2 Vowel Strokes

A Vowel Stroke is a symbol that stands for a vowel sound that occurs after a consonant sound．For example，the vowel is represented by the vowel stroke known as is－pilla when it is preceded by a consonant， thus：

| ลิ | G | 万 | © |
| :--- | :--- | :--- | :--- |
| ki | gi | ti | mi |

Some vowels are represented by different strokes in different places For example，the vowel sound $E$ is represented by 3 kinds of vowel strokes ：

| $\xrightarrow{-}$ | $\begin{aligned} & \mathrm{a} \\ & \mathrm{tu} \end{aligned}$ | 20 nu |  | $\underset{\text { su }}{\text { su }}$ |
| :---: | :---: | :---: | :---: | :---: |
| － | 28 | Q | 中 | $Q$ |
|  | ku | gu | tu | shu |


ru

In the following letter the vowel stroke is invisible：
0
lu

When some vowel strokes are added to consonant letters a part of the consonant letter is removed．For example，when the vowel stroke known as the pa：pilla is added to the consonant ę and their lower parts are removed to make room for the stroke，thus：

## $\varepsilon \quad \varepsilon$

## C．©

\＆e 昭

Some of the vowel strokes are identical in form with consonant strokes.For example, the stroke known as kodiya that is added to certain consonant letters to indicate that the built-in vowel has been removed is identical with one of the vowel strokes used to represent the vowel ©

| ผึ | k |
| :--- | :--- |
| उส็ | ke : |

### 2.3 Consonant Strokes

A Consonant Stroke is a symbol that stands for a consonant sound that occurs in a specific context. Some of the consonant strokes are obligatory. i.e they must necessarily be used in that context. Some consonant strokes are optional. i.e. they may be used at the discretion of the writer.

For example, the following consonant strokes are obligatory:

- (known as the yansaya)
- $\quad$ (known as raka:ra:nsaya)

The yansava represents the consonant sound $Q$ that is preceded by another consonant, thus:

2
ฉa kya
(58) g y a:

Oz $\quad$ vyu
sea) dyo:

The raka:ra:nsaya represents the consonant sound $\sigma$ that is preceded by another consonant, thus:
-
중
kra
(3) gra
8 pri
Og)
sh ro:

The consonant stroke known as Re:puyu which stands for the consonant $\sigma$ which is followed by another consonant is optional.

### 2.5 Strokes and Their Uses

Both kinds of strokes - vowel strokes and consonant strokes - are used to represent either the presence or absence of sounds. This section will list the strokes and their uses or functions in different contexts.


### 2.5.1 The Flag: Kodiya

This stroke serves the following functions:
(a) It is used with certain consonant letters to indicate that the builtin vowel has been removed.


When this stroke occurs with the following consonant letters, the stroke is placed in a slightly different way:

(b) It is added to the short vowel to make it long:
0
d
e
e:
(c) It is used with certain consonants to represent the vowel © Then the consonant letter is also preceded by the kombuvae

$$
\begin{array}{ll}
000 & 000 \\
\text { ke: } & \text { ge: }
\end{array}
$$

(e) It is combined with the aela pilla and placed after a consonant letter that is preceded by a kombuva to represent the long vowel sound 8 [ O :]

$$
\begin{array}{ll}
0 \infty j & 90 j \\
\text { ko: } & \text { go: } \\
00 j & 00 j \\
\text { to: } & \text { mo: }
\end{array}
$$

### 2.5.2 The Cord : Raehaena



## This stroke serves the following functions:

(a) It is added to certain consonant letters to indicate that the builtin vowel has been removed. Consonants that use this stroke terminate on the top left, such as the following:

| (2) | Eิ | 0 | 0 |
| :---: | :---: | :---: | :---: |
| nga | ng | ca | c |
| 0 | 0 | Q | ©ิ |
| ta | t | da | d |
| 2 | రె | 0 | రె |
| ba | n | ma | II |

va v

อ) ฮิ
(b) It is added to the short vowel (a) make it long:
(2) ®8

0 o:
(c) It is added to certain consonants to represent the long vowel $\mathbb{d}$.Then the consonant letter is also preceded by the kombuva 0

| $\infty$ | @ |
| :--- | :--- |
| te: | me: |



### 2.5.3 The Vowel Stroke : Aela Pilla

This stroke serves the following functions:
(a) It is added to the short vowel $\mathbb{Q}$ to make it long:

| q | ¢ |
| :--- | :--- |
| a | $\mathrm{a}:$ |

(b) It is added to a consonant letter to indicate that it contains ©

| ฉ) | (3) | 0) | ©) |
| :---: | :---: | :---: | :---: |
| ka: | ga: | ta: | ma: |
| ¢] | E) | Шट¢ | G¢ |
| da: | nda: | gna: | gna: |

(c) It is added to certain consonants to represent the short vowel ©. Then the consonant letter is also preceded by the kombuva ©

| 30) | $0{ }^{3}$ | 00) | 00) |
| :---: | :---: | :---: | :---: |
| ko | go | to | mo |
| act | ©) | OE®] | 00c] |
| do | ndo | gno | gno |



### 2.5.4 Vowel Stroke : Keti Aeda Pilla

This stroke serves the following functions:
(a) It is added to the short vowel $\mathbb{Q}$ [a] to change it to another vowel $\%$ [ae]

| 4 | q |
| :--- | :--- |
| a | ae |

(b) It is added to a consonant letter to indicate that it contains $\uparrow$

| ar | Oz | $O_{2}$ | O\% |
| :--- | :--- | :--- | :--- |
| kac | gae | tae | mae |
|  |  |  |  |
| ę | ę |  |  |
| dae | ndae |  |  |

When added to the consonant letter 0 this stroke is taller than the normal stroke:

| $\sigma$ | $a$ |
| :--- | :--- |
| $r a$ | rae |

(c) It is added to the consonant $\sigma$ to represent the short vowel $\mathbb{C}$.

| $\sigma$ | $\sigma_{6}$ |
| :--- | :--- |
| $r a$ | $r u$ |

(d) It does not occur with the subsetof 10 consonants known as maha:-pra:na (aspirates), used primarily to write loan words from Sanskrit and Pali
0 es
$\sigma$ (
0
$\omega$
0
0


### 2.5.5 Vowel Stroke: Dik Aeda Pilla

 This stroke serves the following functions:(a) It is added to the short vowel $\mathbb{Q}[a]$ to change it to another vowel [ae:]

| Q |  |
| :--- | :--- |
| a | ae: |

(b) It is added to a consonant letter to indicate that it contains

| 6\% | (2) | 08 |
| :---: | :---: | :---: |
| kae: | gac: | tae: |
| $\begin{aligned} & \text { Cg } \\ & \text { dae: } \end{aligned}$ | $\begin{aligned} & \text { és } \\ & \text { ndae: } \end{aligned}$ |  |

When added to the consonant letter 6 this stroke is taller than the normal stroke:
$\sigma$
0
ra
rae:
(c) It is added to the consonant $\sigma$ to represent the short vowel $G^{\text {? }}$
$\sigma$
$\sigma$
ra
ru:
(d) It is added to the letter $O$ to indicate that the vowel it contains is 8 ,

| 0 | 0 |
| :--- | :--- |
| lu | lu: |

(e) It does not occur with the subset of 10 consonants known as maha:-pra:na (aspirates),


### 2.5.6 Vowel Stroke : Keti Is Pilla

This stroke is partially similar to the vowel-remover: raehaena Thus it is necessary to focus attention on the point where they differ from each other:

| 0 | 0 | 0 |
| :--- | :--- | :--- |
| ta | t | ti |
| 0 | © | 0 |
| ma | m | mi |

This stroke serves the following functions:
(a) It is added to a consonant letter to indicate that it contains the short vowel ©


When added to the consonant letter $\sigma$ this stroke is slightly different from the normal stroke:
$\sigma$
8
ra
ri


### 2.5.7 Vowel Stroke : Dik /s Pilla

This stroke serves the following functions:
(a) It is added to a consonant letter to indicate that it contains the long vowel 0

| 8 | ki: |
| :---: | :---: |
| 8 | gi: |
| 0 | ti: |
| 8 | mi: |
| ๕ | di: |
| ¢ | ndi: |
| 8 | fi: |

When added to the consonant letter $\sigma$ this stroke is slightly different from the normal stroke:

| 6 | 8 |
| :--- | :--- |
| ra | ri: |


2.5.8 Vowel Stroke : Keti Kon Pa: Pilla

This stroke serves the following function:

It is added to a consonant letters to indicate that it contains the short vowel ©

| ma | © |
| :--- | :--- |
| mu |  |

It occurs with the following 31 consonants:

| Q | E | Q | 9 | $\underline{9}$ | 20.3 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| khu | ghu | cu | chu | ju | jhu |
| $\begin{aligned} & 9 \\ & t u \end{aligned}$ | $\begin{aligned} & \underline{\underline{G}} \\ & \text { thu } \end{aligned}$ | $\frac{e^{2}}{d u}$ | $\frac{\mathrm{dh}}{\mathrm{~d}}$ | $\begin{aligned} & \text { 所 } \\ & \text { nu } \end{aligned}$ | $\begin{aligned} & \text { E. } \\ & \text { ndu } \end{aligned}$ |
| $\begin{aligned} & 9 \\ & \text { thu } \end{aligned}$ | 0 dhu | $\begin{aligned} & 0 \\ & n u \end{aligned}$ | $\begin{aligned} & \text { og } \\ & \text { pu } \end{aligned}$ | phu | $\frac{\text { a }}{\text { bu }}$ |
| $\begin{aligned} & \text { © } \\ & \mathrm{mu} \end{aligned}$ | Q mbu | $\begin{aligned} & \mathrm{Qg} \\ & \mathrm{yu} \end{aligned}$ | $\underset{\text { lu }}{e}$ | $\begin{aligned} & \text { ® } \\ & \mathrm{vu} \end{aligned}$ | $\begin{aligned} & \text { eg } \\ & \text { shu } \end{aligned}$ |
| $\stackrel{\text { \% }}{\substack{\text { su }}}$ | $\begin{aligned} & \mathrm{eq} \\ & \mathrm{hu} \end{aligned}$ | $\begin{aligned} & \mathrm{M} \\ & \mathrm{fu} \end{aligned}$ |  |  |  |

When this stroke is used with the following consonants, the lower part of the consonant is removed:

| e | E | 8 |
| :---: | :---: | :---: |
| 5 | E | E |
| du | ndu | gnu |



### 2.5.9 Vowel Stroke: Keti Vak Pa: Pilla

This stroke serves the following functions:

It is added to a consonant letter to indicate that it contains the short vowel ©

| $\infty$ | ku |
| :--- | :--- |
| ka | ku |

It occurs with the following 6 consonants:

| $\otimes$ | ¢叩ึర |
| :---: | :---: |
| ku | akura |
| Q | ¢ФC |
| gu | agula |
| Q | Qqe |
| ngu | angula |
| 8 | D¢O |
| tu | vatura |
| Q | ఖరె0 |
| bhu | bhuvana |
| Q | Q00 |
| shu | shubha |



2．5．10 Vowel Stroke ：Dik Kon Pa：Pilla
This stroke serves the following function：

It is added to a consonant letters to indicate that it contains the short vowel Cy

| © | ma |
| :--- | :--- |
| mu： |  |

It occurs with the following 31 consonants：

| ล khu： | 6 <br> ghu： | O cu | chu： | $\begin{aligned} & \text { ag } \\ & \text { ju: } \end{aligned}$ | jhu： |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & 0 \\ & \text { tu: } \end{aligned}$ | thu： | $\begin{aligned} & \text { 药 } \\ & \text { du: } \end{aligned}$ | dhu： | 哲 <br> nu： | Q ndu： |
| 9 thu： | dhu： | $\begin{aligned} & \text { ⿹勹ֶ } \\ & \text { ku: } \end{aligned}$ | pu： | phu: | Q bu： |
| 〇 <br> mu： | Q mbu： | $\begin{aligned} & \text { ¢ } \\ & \text { yu: } \end{aligned}$ | E lu: | vu vu | $\sigma$ shu： |
| ¢ su： | \％20 hu： | $\begin{aligned} & \theta \\ & \text { fu: } \end{aligned}$ |  |  |  |

When this stroke is used with the following consonants，the lower part of the consonant is removed：

du：ndu：gnu：gnu

### 2.5.11 Vowel Stroke : Dik Vak Pa: Pilla



This stroke serves the following function:

It is added to a consonant letter to indicate that it contains the long vowel e,
©
Q
ka
ku:

It occurs with the following 6 consonants:
®
ku:

$$
Q
$$

gu:

$$
Q
$$

ngu:

## Q

tu:
8
bhu:

## Q <br> shu:



### 2.5.12 Vowel Stroke : Gaeta Pilla

This stroke serves the following functions:
(a) It is added to the short vowel mave to make long
ri ri:

It is important to note that the symbol that precedes this stroke above is different from the symbol for the consonant letter for $[s] \oplus$. The difference lies in the presence or absence of the short hyphen-like symbol on its right.
(b) It is added to a consonant letter to indicate that it contains the short vowel $\propto$ or the sounds $\mathbb{Q}$ (ru):

| Bu | gr |
| :--- | :--- |
| kru | gru |
| Op | 03 |
| tru | mru |

(c) Two of these strokes are added to a consonant letter to indicate that it contains the sounds os



### 2.5.13 Vowel Stroke : Kombuva

 It serves the following functions:(a) It is added to the vowel [e] to change it to another vowel 00 [ai]
0
00
e
ai

This letter occurs only in loan words from Sanskrit.
(b) It is placed in front of a consonant to indicate that it contains the short vowel sound © [e]

| 000 | 600 <br> ke |
| :--- | :--- |
| 00 | 00 |
| te | me |

(c) It is placed in front of a consonant letter that has either a kodiya or raehaena to indicate that it contains the long vowel $[\mathrm{e}$ :]

| OSt | $0{ }^{0}$ |
| :---: | :---: |
| ke: | ge: |
| 08 | 06 |
| te: | me: |

(d) It is placed in front of a consonant letter that is followed by the aela pilla to indicate that it contains the short vowel sound 0 [0]

| e(D) | 0(3) |
| :--- | :--- |
| ko | go |
| 003 | 001 |
| to | mo |

(e) It is placed in front of a consonant letter that is followed by the aela pilla and kodiya to indicate that it contains the long vowel sound © [ $[0:]$

| 0081 | 001 |
| :---: | :---: |
| ko: | go: |
| 001 | cos |
| to: | mo: |
| ges | ost |
| fo: | ndo: |
| and | Q0¢ |
| kro: | tro: |

(f) It is placed in front of a consonant letter that is followed by a gayanu kitra to indicate that the consonant letter contains the vowel sound on [au]

| (<)9 | 009 | (0) | 007 |
| :---: | :---: | :---: | :---: |
| kau | gau | tau | mau |
| Ocy | Ger | 0es) | 0 |
| fau | lau | krau | trau |

(g) Two of these are placed before a consonant letter to indicate that it contains the vowel [ai]

| 0000 | 000 |  |  |
| :--- | :--- | :--- | :--- |
| kai | gai | 000 <br> tai | 000 <br> mai |
| 000 | 000 | $000_{0}$ | 000 |
| fai | lai | krai | trai |



### 2.5.14 Vowel Stroke : Gayanu Kitta

It serves the following functions:
(a) It is added after the shor vowel letter $\mathcal{E}$ to make it long:

| 6 | e9 |
| :--- | :--- |
| u | u: |

(b) It is added after the short vowel letter to change it to a different vowel on [au]

| (2) |  |
| :--- | :--- |
| 0 | au |

This letter occurs only in loan words from Sanskrit.
(c) Is is placed after a consonant letter that is preceded by a kombuva to indicate that it contains the vowel ©n[aul

| 005 | 0097 |
| :---: | :---: |
| kau | gau |
| ©0) | -0) |
| tau | mau |
| Oeg | (30) |
| lau | fau |
| eeg | Ogo |
| krau | prau |

### 5.2.15 Consonant Stroke: Yansaya



This is an obligatory stroke and it serves the following function:

It is placed after a consonant letter to represent the sound $Q[y]$

| 025 | cos | 08 | 0\% |
| :--- | :--- | :--- | :--- |
| kya | gy | lya | mya |

The letter $\mathcal{C}$ may be followed by other strokes:

| 203 | kya | 205) | kya: |
| :---: | :---: | :---: | :---: |
| E23 | kyu | 0805 | kye |
| 6008) | kyo | Qaxd | o: |

This stroke is not used with the consonant letter $\sigma$ [ra]. Thus combinations such as the following are considered improper:

> os

When the letter $\mathcal{C}$ is preceded by the consonant sound ${ }^{\circ}$ [r] it may be represented in one of 3 alternative ways:
(i) by the use of the two consonant letters separately:

Scs entcs oenentcs
rya a:rya maha:ca:rya
(ii) by the use of the re:parya above the letter $c 9$

## 

(iii) by the use of the re.paya placed above the yansaya

### 5.2.16 Consonant Stroke : Raka:ra:nsaya



This is an obligatory stroke and it serves the following function: It is placed after a consonant letter to represent the consonant sound $\sigma$ [ra]

| 88 | 8 |
| :--- | :--- |
| kra | gra |
| O | 9. |
| tra | mra |

The letter $\sigma$ may be followed by other strokes:

| ถ0 | kra: | Do | krae |
| :---: | :---: | :---: | :---: |
| 8 | kae: | \% | kri |
| 중 | kri: | (2) | kre |
| (0) | kre; | (e)\% | krai |
| (0¢) | kro | Sos | kro: |
| 0ผ్ర | krau |  |  |

When this stroke is used with the following consonant letter its lower part is removed:

| \& | द | e | $\xi$ |
| :--- | :--- | :--- | ---: |
| da | dra | dra: | dri |



### 2.5.16 Consonant Stroke : Re:paya

This is an optional stroke and it serves the following function.

It is placed above a consonant letter to represent the sound $\%[r]$

| దీ | § |
| :--- | :--- |
| rka | rga |
| 8 | é |
| ra | rma |
| © |  |
| rya |  |

However, the following combination can also be written with the yansaya preceded by cs.

| 0 | CS |
| :--- | :--- |
| rya | rya |

When a combination has a re:paya and a yansaya, the former is always placed above the latter.

Thus the following combination in which the re:paya is placed above the $C$ and not above the yansaya is considered improper:

## ${ }^{\circ} \mathrm{CS}$



### 2.5.17 Another Consonant Stroke

This consonant stroke serves the following functions.
(a) It is added to certain consonants to indicate that they are halfnasals:

## Half Nasal

| 5 | (1) |
| :---: | :---: |
| ga | nga |
| อ | 0 |
| da | nda |
| ę | E |
| da | nda |
| O | of |
| ja | nja |

However, if the half-nasal letters occur as independent letters, there in no necessity to add this stroke to such letters.
(b) It is added before certain consonants to represent the consonant sound \&̧ [d]

| \% | 0 | 9 yc (20 | 1 | Ge |
| :---: | :---: | :---: | :---: | :---: |
| \% | $\bigcirc$ | tero | 1 | ¢0) |

(c) It is used before the consonant © [tha] to represent © [t]

| ๑ิด | 0 | 000 | 1 | OL |
| :---: | :---: | :---: | :---: | :---: |
|  |  | coio | 1 | 50 |

(d) It is used before the consonant $\delta$ [c] to represent $\wp$ [gn]
ผ
(e) It is used before the consonant $0(\mathrm{ph})$ to represent 0 $00 / 00$

## 2．5．18．Conjunct Consonants

In traditional Sinhala writing there was a subset of symbols known as baendi akuru or conjunct letters．A conjunct letter is a combination of two consonant letters written as one symbol．These symbols came into being as a device of convenience in writing by hand．Printing，however，displaced most of these symbols．Modern writers use these symbols at their discretion．

These symbols include the following：
letters separately conjunct letter example

| 250 | － 2 |  |
| :---: | :---: | :---: |
| 1బึ｜ | $\sim 3$ | 4506／4806 |
| 50 | 6ひ） |  |
| 80 | （2） |  |
| 0 ＊ | $\cdots$ |  |
| W0 | कही |  |
| ふた | 且 | quodz／qux |
| 200 | か） |  |
| 80 | －2 | qびə |

The following combinations are also of this type but they are obligatory:

|  | 20 | O)20 |
| :---: | :---: | :---: |
| 200 | (1) | $\theta(1)$ |

The following letters are, however, not conjunct consonants but independent letters that represent sing le sounds.

| 6 | $g n$ |
| :--- | :--- |
| 60 | $g h$ |
| $6 h$ | $j h$ |

