

component, so the character displayed on the screen will change back to **ஊ**, and change again if a different vowel is typed.

Examples

Language	Phrase	Meaning	Type the following keys
Tamil	தமிழ் அரிச்சுவடி	"Tamil alphabet"	l k s / f a m s s

Full Documentation

This keyboard uses a consonant-vowel order for text input, so the consonant character is always typed before the vowel, regardless of where (relative to the consonant) the vowel marker symbol appears. As syllables are typed, the characters entered are automatically converted to the appropriate consonant-vowel combinant. While only the combinant characters are displayed on screen, the consonant and vowel are both stored, so that pressing Backspace once after a combinant deletes only the vowel component. This means it is necessary to press Backspace twice to delete a combinant character. However, pressing the Delete key with the cursor in front of a combinant character removes the whole character with one keystroke.

The full keyboard layout consists of the twelve vowels அ ஆ இ ஈ உ ஊ எ ஏ ஐ ஒ ஓ ஔ, the eighteen consonants கஙசஞடணதநபமயரலவழளறன, the five Grantha consonants ஸ ஷ ஜ ஹ க்ஷ, the SRii consonant ஸ்ரீ, and the Pulli ு and Aytham ூ marks.

Pulli Marks and Vowels

Because the consonants contain the implicit vowel அ, to produce a pure consonant it is necessary to add the Pulli mark ு by typing a lower case f immediately after the consonant. Typing the same consonant twice in a row will also convert the first consonant to a consonant-Pulli combinant. This automatic conversion is then disabled, so that typing the same consonant a third time will not produce a Pulli mark on the second consonant. Thus typing the same consonant repeatedly results in Pulli marks on the first, third, fifth and so on: க்கக்கக்கக்க

Similarly, typing a soft consonant followed by the corresponding hard consonant automatically produces a Pulli mark on the first consonant: ங்க

The first vowel அ is implicit in the consonants, so typing this vowel after a consonant will not display the vowel or change the consonant to a combinant. However, this does de-link the consonant from the next keystroke, so that typing another vowel will result in that vowel being displayed independently, rather than combining with the consonant. This also prevents the Pulli mark being entered.

In general, typing a vowel after anything other than a consonant produces an independent vowel.

Keystroke Examples

Note: for a complete table of characters and keystrokes, [click here](#).

The following table gives specific examples of how to input characters based on the consonant க. The Grantha consonants, which are entered with Shift + key combinations, use the same input method. Examples of these with the consonant ஜ are also given below.

Tamil Consonants				Grantha Consonants			
Consonant	Vowel/Pulli	Combinant	Keystrokes	Consonant	Vowel/Pulli	Combinant	Keystrokes
க	ு	க்	h f	ஜ	ு	ஜ்	Shift + E f
அ		க	h a	அ		ஜ	Shift + E a
ஆ		கா	h q	ஆ		ஜா	Shift + E q
இ		கி	h s	இ		ஜி	Shift + E s
ஈ		கீ	h w	ஈ		ஜீ	Shift + E w
உ		கு	h d	உ		ஜு	Shift + E d
ஊ		கூ	h e	ஊ		ஜு	Shift + E e
எ		கெ	h g	எ		ஜெ	Shift + E g
ஏ		கே	h t	ஏ		ஜே	Shift + E t
ஐ		கை	h r	ஐ		ஜை	Shift + E r
ஒ		கொ	h c	ஒ		ஜொ	Shift + E c
ஓ		கோ	h x	ஓ		ஜோ	Shift + E x

ஒப

கௌ

h z

ஒப

ஜௌ

Shift + E z

Other Characters

Apart from the Grantha consonants, several other characters are also typed using the **Shift** + key. These include:

Character	Keystrokes
௨ (day)	Shift + Z
௩ (month)	Shift + X
௪ (year)	Shift + C
௫ (debit)	Shift + V
௬ (credit)	Shift + B
௭ (etc.)	Shift + D
௮ (Rupee)	Shift + A
௯ (numeral)	Shift + S

The caret mark (**Shift** + **6**) is used to produce various other characters, such as the glyphs used as vowel modifiers. These can be produced by typing the caret mark **^** and then the corresponding vowel. Other characters typed in combination with **^** are given in the table on the right:

Character	Keystrokes
‘	^ 7
,	^ 8
“	^ 9
”	^ 0
©	^ C
•	^ .
^	^ ^

Troubleshooting

Using Tamil keyboards with Word 2007

Sometimes when using Word 2007, the Pulli mark ூ is not suppressed correctly. For example:

Key sequence	Correct output	Word output
க + அ + க	கக	க் க
க + க + க + க	க்கக்க	க் க் க் க்

The easiest ways to deal with this are to move the cursor and press Backspace to delete the unwanted Pulli mark, or else enable the **Text Services Framework Add-In** if you are using Keyman Desktop Professional. Disabling *Tamil language editing* in *Microsoft Office Language Settings* will also correct the input behaviour, but this is not recommended, as it makes selection of fonts more difficult.

Fonts

Some of the fonts included with Windows do not include all the Tamil characters that are available with this keyboard. In order to display every character correctly, we recommend you download and install **Tamil fonts**.

If the characters you type or those on the On Screen Keyboard do not appear to display correctly, please read the [KeymanWeb troubleshooting guide](#).

Problem Solving

If the preceding consonant does not change to a vowel-consonant combinant character when you type a vowel, confirm that you have not typed a Pulli mark ூ, which identifies the consonant as a pure consonant, or the first vowel அ, which identifies the consonant as the implicit-vowel consonant. Typing either of these after a consonant will prevent that consonant from changing to a combinant character.

Further Resources

Related Keyboard Layouts

Other Keyboard Layouts for the Tamil language:

[Suratha Bamuni \(Bamini Typewriter\)](#)
[Anjal Paangu](#)
[ISIS Tamil](#)
[Inscript Tamil](#)
[Modular \(Visual Media\)](#)
[Typewriter \(Visual Media\)](#)

Other Internet Resources

[Download Tamil99 Keyboard for Keyman Desktop](#)

[Tamil Writing System at Omniglot.com](#)
[Tamil Language at Wikipedia.org](#)
[Tamil Script at Wikipedia.org](#)

Technical Information

System Requirements

It is recommended that you use an English QWERTY hardware keyboard with this keyboard.

Unicode Version

This keyboard complies with Unicode 5.2

Authorship

This keyboard was created by Mugunth (mugunth@gmail.com), Umar (csd_one@yahoo.com) and K. Sethu (skhome@gmail.com). For more information about keyboards produced by these developers, see <http://thamiza.com>. Tavultesoft gratefully acknowledges the contribution made by the authors in developing this keyboard and making it freely available for use with Keyman Desktop and KeymanWeb. Their effort assists in enabling people to communicate in their own language.

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Keyboard Reference Chart

The following chart lists all the characters available with this keyboard. Below each character are the keystrokes required to type it.

\ Vowels	ஃ	அ	ஆ	இ	ஈ	உ	ஊ	எ	ஏ	ஐ	ஔ	ஓ	ஔ
Consonants\	ஃ	அ	ஆ	இ	ஈ	உ	ஊ	எ	ஏ	ஐ	ஔ	ஓ	ஔ
க	ஃ	க	கா	கி	கீ	கு	கூ	கெ	கே	கை	கொ	கோ	கௌ
ங	ங்	ங	ஙா	ஙி	ஙீ	ஙு	ஙூ	ஙெ	ஙே	ஙை	ஙொ	ஙோ	ஙௌ
ச	ச்	ச	சா	சி	சீ	சு	சூ	செ	சே	சை	சொ	சோ	சௌ
ஞ	ஞ்	ஞ	ஞா	ஞி	ஞீ	ஞு	ஞூ	ஞெ	ஞே	ஞை	ஞொ	ஞோ	ஞௌ
ட	ட்	ட	டா	டி	டீ	டு	டூ	டெ	டே	டை	டொ	டோ	டௌ
ண	ண்	ண	ணா	ணி	ணீ	ணு	ணூ	ணெ	ணே	ணை	ணொ	ணோ	ணௌ
த	த்	த	தா	தி	தீ	து	தூ	தெ	தே	தை	தொ	தோ	தௌ
ந	ந்	ந	நா	நி	நீ	நு	நூ	நெ	நே	நை	நொ	நோ	நௌ
ப	ப்	ப	பா	பி	பீ	பு	பூ	பெ	பே	பை	பொ	போ	பௌ
ம	ம்	மா	மா	மி	மீ	மு	மூ	மெ	மே	மை	மொ	மோ	மௌ
ய	ய்	ய	யா	யி	யீ	யு	யூ	யெ	யே	யை	யொ	யோ	யௌ
ர	ர்	ர	ரா	ரி	ரீ	ரு	ரூ	ரெ	ரே	ரை	ரொ	ரோ	ரௌ
ல	ல்	ல	லா	லி	லீ	லு	லூ	லெ	லே	லை	லொ	லோ	லௌ
வ	வ்	வ	வா	வி	வீ	வு	வூ	வெ	வே	வை	வொ	வோ	வௌ

மு	மு்	மு	முா	முி	முீ	முு	முே	முெ	முே	முை	முொ	முோ	முௌ
/	/f	/a	/q	/s	/w	/d	/e	/g	/t	/r	/c	/x	/z
ள	ள்	ள	ளா	ளி	ளீ	ளு	ளு	ளெ	ளே	ளை	ளொ	ளோ	ளௌ
y	yf	ya	yq	ys	yw	yd	ye	yg	yt	yr	yc	yx	yz
ற	ற்	ற	றா	றி	றீ	று	று	றெ	றே	றை	றொ	றோ	றௌ
u	uf	ua	uq	us	uw	ud	ue	ug	ut	ur	uc	ux	uz
ன	ன்	ன	னா	னி	னீ	னு	னூ	னெ	னே	னை	னொ	னோ	னௌ
i	if	ia	iq	is	iw	id	ie	ig	it	ir	ic	ix	iz

Grantha Consonants

ஜ	ஜ்	ஜ	ஜா	ஜி	ஜீ	ஜு	ஜூ	ஜெ	ஜே	ஜை	ஜொ	ஜோ	ஜௌ
Shift + E	Shift + E f	Shift + E a	Shift + E q	Shift + E s	Shift + E w	Shift + E d	Shift + E e	Shift + E g	Shift + E t	Shift + E r	Shift + E c	Shift + E x	Shift + E z
ஷ	ஷ்	ஷ	ஷா	ஷி	ஷீ	ஷு	ஷூ	ஷெ	ஷே	ஷை	ஷொ	ஷோ	ஷௌ
Shift + W	Shift + W f	Shift + W a	Shift + W q	Shift + W s	Shift + W w	Shift + W d	Shift + W e	Shift + W g	Shift + W t	Shift + W r	Shift + W c	Shift + W x	Shift + W z
ஸ	ஸ்	ஸ	ஸா	ஸி	ஸீ	ஸு	ஸூ	ஸெ	ஸே	ஸை	ஸொ	ஸோ	ஸௌ
Shift + Q	Shift + Q f	Shift + Q a	Shift + Q q	Shift + Q s	Shift + Q w	Shift + Q d	Shift + Q e	Shift + Q g	Shift + Q t	Shift + Q r	Shift + Q c	Shift + Q x	Shift + Q z
ஹ	ஹ்	ஹ	ஹா	ஹி	ஹீ	ஹு	ஹூ	ஹெ	ஹே	ஹை	ஹொ	ஹோ	ஹௌ
Shift + R	Shift + R f	Shift + R a	Shift + R q	Shift + R s	Shift + R w	Shift + R d	Shift + R e	Shift + R g	Shift + R t	Shift + R r	Shift + R c	Shift + R x	Shift + R z
சஷ	சஷ்	சஷ	சஷா	சஷி	சஷீ	சஷு	சஷூ	சஷெ	சஷே	சஷை	சஷொ	சஷோ	சஷௌ
Shift + Y	Shift + Y f	Shift + Y a	Shift + Y q	Shift + Y s	Shift + Y w	Shift + Y d	Shift + Y e	Shift + Y g	Shift + Y t	Shift + Y r	Shift + Y c	Shift + Y x	Shift + Y z

Other Characters

ஸ்ரீ	ஃ	௨	மீ	ஸ்ரீ	பு	௭	ஷ	ரீ	நீ	[]	/
Shift + T	Shift + F	Shift + Z	Shift + X	Shift + C	Shift + V	Shift + B	Shift + D	Shift + A	Shift + S	Shift + O	Shift + P	Shift + M
"	:	;	'	,	,	“	”	©	•	^		
Shift + K	Shift + L	Shift + :	Shift + "	Shift + ^ 7	Shift + ^ 8	Shift + ^ 9	Shift + ^ 0	Shift + ^ c	Shift + ^ .	Shift + ^ ^		

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