

IPA Unicode 5.1 InKey™ Keyboard Layout






Version 1.04

1 March 2009

This InKey™ keyboard layout has been designed to closely mimic version 1.2 of SIL's IPA Unicode 5.1 Keyman™ layout, adding some extra features. Thus, pages 2–4 of this document and the bottom paragraph on this page are extracted “as is” from SIL's Keyman IPA document, which can be downloaded in full [here](#).







Differences from the Keyman™ Layout:





Finding Keys

IPA layouts are notoriously difficult to remember. For example, which modifier key (   ) do you press after **y** to get **ɥ**? This InKey™ keyboard solves that problem by allowing you to cycle through various alternate forms of a letter when you press the EQUALS  key.





- Note that some characters may show up in more than one cycle. For example, you can find **ɥ** by cycling either through **h**-like characters, or through **y**-like characters.
- Included in these cycles are the more-easily-remembered sequences $oe \Rightarrow \text{œ}$, $OE \Rightarrow \text{Œ}$, $ae \Rightarrow \text{æ} \Rightarrow \text{Ǽ}$ and $lz \Rightarrow \text{ɹ}$.

Getting an IPA-function key's own character

You can now type an underscore  character (as in **m → n / _ k**) or a plus  character (as in **[+ voiced]**) without these keystrokes producing diacritics. This will happen automatically when you type them after any lower-ANSI, non-letter character, such as the common symbols. The same is also true for these diacritic keys:    .

Alternatively, you can obtain any diacritic key's own character by following it with . In addition, both for diacritic keys and for letter-replacing keys (such as  or ), you can always get the key's own character by preceding it with a backslash .

Additional Characters

Some additional phonetic-related characters have been added. For example, if you need an uppercase **Ŋ**, you'll find it intuitively at   . Note that you can also toggle back and forth between a two-code-point pair (e.g. **ɹɹ**) and a joined single-code-point character (e.g. **ɹɹ**) by pressing the ampersand  key after it.¹

Keyboard Layout

The keyboard layout is described in terms of an IPA chart rather than a keyboard. This is because many base characters are typed as a sequence of a letter followed by one of **<**, **>**, **=** or **|** which are characters used to change a base character to another base character. Diacritics are typed as sequences of an appropriate key. **Blue denotes non-IPA sanctioned phonetic symbols (they may be used by other traditions such as Americanist, Chinese or Russian).** **Red denotes characters which are not in Unicode (they are in SIL's corporate PUA and will not likely be found in any other font).**

¹ This works for **ɹ**, **ɹɹ**, **ɹɹ**, **ts**, **tʃ**, **tɕ**, **fɿ**, **ɬ**, **ɮ**, and **ɹɹ**.

Consonants

	Bilabial	Labio-dental	Dental	Alveolar	Post-alveolar	Retroflex	Palatal	Velar	Uvular	Pharyngeal	Glottal
Plosive	p p b b			t t d d		ʈ ʈ< ɖ ɖ<	c c ɟ ɟ=	k k g g< G G=	q q ɢ ɢ=		ʔ ʔ=
Nasal	m m	ɱ ɱ>		n n		ɳ n<	ɲ n=	ŋ n>	ɴ ɴ=		
Trill	ʙ ʙ=			r r					ʀ ʀ=		
Tap or Flap		ⱱ ʋ<		ɾ ɾ>		ɽ ɽ<					
Fricative	ɸ f= β b=	f f v v	θ t= ð d=	s s z z	ʃ s= ʒ z=	ʂ s< ɻ ɻ<	ç c= j j<	x x ɣ g=	χ x= ʁ ʁ>	ħ h> ʕ ʕ<	h h ɦ h<
Lateral Fricative				ɬ l= ɮ l>							
Approximate		ʋ ʋ=		ɹ r=		ɻ ʀ<	j j ɰ ɰ>				
Lateral Approximate				ɭ l		ɭ ɭ<	ʎ ʎ<	ɮ ɮ=			

Where symbols appear in pairs, the bottom one represents a voiced consonant. Shaded areas denote articulations judged impossible.

Other Consonants

Clicks	Voiced implosives
◌ ɸ= Bilabial	ɓ b> Bilabial
◌ !< Dental	ɗ d> Dental/alveolar
◌ ! (Post)alveolar	ɟ j> Palatal
◌ != Palatoalveolar	ɡ g> Velar
◌ !> Alveolar lateral	ɠ G> Uvular

Other Symbols

ʌ w=	ʋ labial-velar fricative	ɕ c<	ʎd alveolo-palatal fricative
ʷ w	ʎd labial-velar approximant	ɹ z>	ʎd alveolo-palatal fricative
ɥ y< or h=	ʎd labial-palatal approximant	ɺ L>	ʎd alveolar lateral flap
ʜ H=	ʋl epiglottal fricative	ɦ H>	Simultaneous ʃ and x
ʕ Q<	ʎd epiglottal fricative		
ʔ Q=	ʎd epiglottal plosive		

Vowels

	Front		Central		Back	
	Unrounded	Rounded	Unrounded	Rounded	Unrounded	Rounded
Close	ɪ i	ʏ y	ɨ I=	ʉ U=	ʉ u=	ʉ u
Near-close	ɪ i=	ʏ y=				ʉ u<
Close-mid	e e	ø o>	ə E=	ə O=	ʏ O>	o o
Mid			ə e=			
Open-mid	ɛ e<	œ E<	ɜ e>	ɞ O<	ʌ u>	ɔ o<
Near-open	æ a<		ɐ a>			
Open	a a	ɶ E>			ɑ a=	ɔ o=

Suprasegmentals

ˈ	}	Primary stress
ˌ	} }	Secondary stress
ː	:	Long
ˑ	::	Half long
ːː	:::	Extra long
˚	***	Extra short
◌	<	Minor (foot) group
◌	=	Major (intonation) group
◌	.	Syllable break
◌	#=	Linking (absence of a break)

Diacritics & Suprasegmentals

k^h	h [^]	Aspirated
t^w	w [^]	Labialised
t^j	j [^]	Palatalised
l^ʋ	ɣ= [^]	Velarised
t^ʕ	ʔ< [^]	Pharyngealised
ⁿk	n [^]	Pre/post nasalised
t^l	l [^]	Lateral release
ⁿʃ	symbol followed by [^] e.g. n= [^]	Other superscripts are available ⁴
k^ʰ	[[Light aspiration
ɐ̤	[[[Rhoticity
tʼ]]	Ejective
t̚]]]	No audible release
b^ʰ]]]]	Weak aspiration
l̪	ɤ	Syllabic
Ḃ	ɤ ɤ	Non-syllabic
Ḃ̤	ɤ ɤ ɤ	Creaky voiced
Ḃ̤̚	symbol followed by ɤ ɤ ɤ ɤ e.g. a ɤ ɤ ɤ ɤ	Retroflex hooks ⁵
Ḃ̤̥	%	Voiceless
Ḃ̤̤	% %	Voiced
Ḃ̤̤̤	% % %	Breathy voiced
Ḃ̤̤̤̤	symbol followed by % % % % e.g. b % % % %	Palatal hooks ⁶
Ḃ̤̤̤̤̥	Ḃ̤̤̤̤̥	Voiceless (diacritics are sometimes placed above a symbol with a descender)

<u>t</u>	{	Dental
<u>t</u>	{{	Apical
<u>t</u>	{{{	Laminal
<u>t</u>	{{{{	Linguolabial
<u>t</u>	{{{{{	Closer variety / Fricative
ẽ	~	Nasalised
ɮ	ɭ ~ ɮ	Velarized or pharyngealized ⁷
ë	*	Centralised
ẽ	**	Mid centralised
ě	***	Extra short
ê	****	Palatalization/Centralization
ṁ	*****	
<u>kp</u>	# &	Double articulation / affricate ⁸
<u>ts</u>	@ &	Double articulation / affricate ⁹
<u>u</u>	+	Advanced
<u>i</u>	—	Retracted
<u>e</u>	++	Raised
<u>e</u>	--	Lowered
<u>e</u>	+++	+ATR
<u>e</u>	---	-ATR
<u>e</u>	++++	More rounded
<u>e</u>	-----	Less rounded
o	-----	open vowel
<u>p</u>	}}}	Fortis
<u>p</u>	}}}}	Lenis
→	=>	Becomes, is realized as
σ	S>	Syllable
⌘	=<	Combining Grapheme Joiner

[illegible]

⁵ Retroflex hooks may be added to: a a d e e ɜ ə i ɔ u ʒ (a, a, d, e, e, ɜ, ə, i, ɔ, u, ʒ)

⁶ Palatal hooks may be added to: b d f g k l m n p r s ſ v x z (b d f g k l m n p r s ſ v x z)

⁷ Available for b, d, f, t, m, n, p, r, s, t and z.

⁸ Typed between the characters. Thus $k\# \& p$.

⁹ Typed between the characters. Thus t@&s.