

# IPA (SIL) keyboard (ver 1.8)

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## 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 \(they may be used by other traditions such as Americanist, Chinese or Russian\).](#)

## Consonants

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

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

## Other Consonants

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

## Other Symbols

ʋ w= Vɪ labial-velar fricative	ɕ c< vɖ alveolo-palatal fricative
ʋ w Vɖ labial-velar approximant	ɕ z> Vɖ alveolo-palatal fricative
ɰ y< or h= Vɖ labial-palatal approximant	ɰ L> Vɖ alveolar lateral flap
H H= Vɪ epiglottal fricative	ɦ H> Simultaneous ɦ and x
ɕ Q< Vɖ epiglottal fricative	
ʔ Q= Vɖ epiglottal plosive	

## Vowels

	Front		Central		Back	
	Unrounded	Rounded	Unrounded	Rounded	Unrounded	Rounded
Close	i i	y y	ɨ I=	ʉ U=	ɯ u=	u u
Near-close	ɪ i=	ʏ y=				ʊ u<
Close-mid	e e	ø o>	ə E=	ɵ O=	ɤ 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
eː : Long
eˑ :ˑ Half long
eːː :ːː Extra long
ẽ *** Extra short
◌ .< Minor (foot) group
◌ . = Major (intonation) group
◌ . Syllable break
◌ # = Linking (absence of a break)

## Other (non-IPA) Vowels

æ	A>		α	α	open central unrounded vowel
ɪ	ɪ	near-close near-front unrounded	ʌ	ʌ	open central unrounded
ɪ	I>		ɹ	ɹ	unrounded alveolar apical
ɨ	I<	lower-high central unrounded or high back unrounded	ɻ	ɻ	unrounded retroflex apical
ʊ	U>	high front rounded	ɣ	ɣ	rounded alveolar apical
ʊ	u	near-close back rounded	ɤ	ɤ	rounded retroflex apical
E	E	mid front unrounded			
ə	e	open-mid front rounded			

## ***Tone and Word accents***

Level <sup>1</sup>			Contour <sup>2</sup>		
⌈ #4	é @4	Extra high	/ #04	ě @13	Rising
┘ #3	é @3	High	\ #40	ê @31	Falling
┘ #2	ē @2	Mid	↑ #24	ě @23	High rising
┘ #1	è @1	Low	↑ #12	ě @12	Low rising
┘ #0	è @0	Extra low	/\ #141	ě @131	Rising-falling
	▮ #<	Downstep		ẽ @21	Low falling
	▮ #>	Upstep		ē @32	High falling
	! !^	Africanist Upstep		ẽ @313	Falling-rising
	i #!	Africanist downstep (raised)		↗ #>>	Global rise
	i ##!	Africanist downstep (lowered)		↘ #<<	Global fall

### ***Tone numbers (non-IPA)***

3	3 <sup>^</sup> (0-9)	superscript number
-	- <sup>^</sup>	superscript hyphen

## Other (non-IPA) Symbols

ç	c >	vl palatal implosive
ɖ	d	alveolo-palatal vd plosive
ɳ	h	vd pharyngeal nasal
ƙ	k >	vl velar implosive
ɭ	l	front-palatal vd lateral approximant
ɲ	n	front-palatal vd nasal
ɓ	p >	vl bilabial implosive
ɗ	q >	vl uvular implosive
ʃ	S =	vl retroflex postalveolar fricative
ɟ	t >	vl dental or alveolar implosive
ɽ	t	front-palatal vl plosive
ɠ	T	dental click
ʋ	w <	bilabial flap
ʒ	Z =	vd retroflex postalveolar fricative
+	+=	
∅	0 =	Empty set
◌̥	0 >	Diacritic "holder"

<sup>1</sup> Use “&” for Left-stem level tones, e.g. “&0” becomes A712 (Γ).

<sup>2</sup> Glides to and from any level (e.g. “#32” becomes ʌ) and any sequence of any two glides (e.g. “#314” becomes ʌ).

## ***Diacritics & Suprasegmentals***

<b>k<sup>h</sup></b>	h <sup>^</sup>	Aspirated
<b>t<sup>w</sup></b>	w <sup>^</sup>	Labialised
<b>t<sup>j</sup></b>	j <sup>^</sup>	Palatalised
<b>l<sup>v</sup></b>	g= <sup>^</sup>	Velarised
<b>t<sup>ʕ</sup></b>	?< <sup>^</sup>	Pharyngealised
<b>ᵏ</b>	n <sup>^</sup>	Pre/post nasalised
<b>t<sup>l</sup></b>	l <sup>^</sup>	Lateral release
<b>ɳ</b>	symbol followed by <sup>^</sup> e.g. n= <sup>^</sup>	Other superscripts are available <sup>3</sup>
<b>k<sup>ʰ</sup></b>	[ [	Light aspiration
<b>ɾ</b>	[ [ [	Rhoticity
<b>tʼ</b>	] ]	Ejective
<b>t̚</b>	] ] ]	No audible release
<b>b<sup>ʷ</sup></b>	] ] ] ]	Weak aspiration
<b>l̩</b>	\$	Syllabic
<b>ᵛ</b>	\$ \$	Non-syllabic
<b>ᵐ</b>	\$ \$ \$	Creaky voiced
<b>ɭ</b>	symbol followed by \$ \$ \$ \$ e.g. a\$ \$ \$ \$	Retroflex hooks <sup>4</sup>
<b>ᵑ</b>	%	Voiceless
<b>ᵑ̤</b>	% %	Voiced
<b>ᵑ̤̤</b>	% % %	Breathy voiced
<b>ᵑ̤̤̤</b>	symbol followed by % % % % e.g. b% % % %	Palatal hooks <sup>5</sup>
<b>ᵑ̤̤̤̤</b>	ᵑ̤̤̤̤	Voiceless (diacritics are sometimes placed above a symbol with a descender)
<b>ᵑ̤̤̤̤̤</b>	ᵑ̤̤̤̤̤	Syllabic (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
ɫ	ɭ ~ ɮ	Velarized or pharyngealized <sup>6</sup>
ë	*	Centralised
ẽ	**	Mid centralised
ǿ	***	Extra short
ẽ	****	Palatalization/Centralization
ṁ	*****	
<u>kp</u>	# &	Double articulation / affricate <sup>7</sup>
<u>ts</u>	@ &	Double articulation / affricate <sup>8</sup>
<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
ɔ	-----	open vowel
<u>p</u>	}}}	Fortis
<u>p</u>	}}}}	Lenis
→	=>	Becomes, is realized as
σ	S>	Syllable
	=<	Combining Grapheme Joiner

<sup>3</sup> The following characters can be superscripted: 0123456789  
+ - = ( ) ? ¢ β ¢ d δ f φ g g y h f i j j k l l m n m j n r η  
η n p r i j k s s f t θ v u w x y z z z z a æ a e æ z e i i o  
o c o λ u w u w y

<sup>4</sup> Retroflex hooks may be added to: a ɑ d e ɛ ɜ ə ɔ ʊ ʊ ʒ (a, ɑ, d, e, ɛ, ɜ, ə, ɔ, ʊ, ʊ, ʒ)

<sup>5</sup> 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)

<sup>6</sup> Available for b, d, f, t, m, n, p, r, s, t and z.

<sup>7</sup> Typed between the characters. Thus  $k\# \& p$ .

<sup>8</sup> Typed between the characters. Thus t@&s.

## Appendix: IPA number chart

Green denotes IPA characters unsupported by this keyboard.

Alph sorting key	Glyph	Key- strokes	IPA No.	USV	Symbol Name	IPA Phonetic Description
1.	a	a	304	0061	Lowercase A	open front unrounded vowel
2.	ɐ	a>	324	0250	Turned A	near-open central vowel
3.	ɑ	a=	305	0251	Script A	open back unrounded vowel
4.	ɒ	o=	313	0252	Turned Script A	open back rounded vowel
5.	æ	a<	325	00E6	Ash; Lowercase A-E ligature	near-open front unrounded vowel
6.	A	A	701	0041	Upper-case A	A
7.	b	b	102	0062	Lowercase B	vd bilabial plosive
8.	ɸ	b>	160	0253	Hooktop B	vd bilabial implosive
9.	B	B=	121	0299	Small Capital B	vd bilabial trill
10.	β	b=	127	03B2	Beta	vd bilabial fricative
11.	B	B	702	0042	Upper-case B	B
12.	c	c	107	0063	Lowercase C	vl palatal plosive
13.	ɸ	c>	163	0188	Hooktop C	vl palatal implosive ( <i>withdrawn, 1993</i> )
14.	č		299	010D	C wedge	vl postalveolar affricate ( <i>not IPA usage</i> )
15.	ç	c=	138	00E7	C Cedilla	vl palatal fricative
16.	ɸ	c<	182	0255	Curly-tail C	vl alveolo-palatal fricative
17.	ɸ		202	0297	Stretched C	postalveolar click ( <i>superseded by 178, 1989</i> )
18.	C	C	624 (=703)	0043	Upper-case C	Creak
19.	C	C	703 (use 624)	0043	Upper-case C	C (Creak)
20.	d	d	104	0064	Lowercase D	vd dental or alveolar plosive
21.	ɸ	d>	162	0257	Hooktop D	vd dental or alveolar implosive
22.	ɖ	d<	106	0256	Right-tail D	vd retroflex plosive

Alph sorting key	Glyph	Key- strokes	IPA No.	USV	Symbol Name	IPA Phonetic Description
23.	ɖ	ɖ>\$\$\$	219	1D91	Hooktop right-tail D	vd retroflex implosive ( <i>not explicitly IPA approved</i> )
24.	ɖ͡		212	02A3	D-Z ligature	vd alveolar affricate ( <i>superceded by 104 + 133</i> )
25.	ɖ͡ʒ		214	02A4	D-Ezh ligature	vd postalveolar affricate ( <i>superceded by 104 + 135</i> )
26.	ɖ͡ʝ		216	02A5	D-Curly-tail-Z ligature	vd alveolo-palatal affricate ( <i>superceded by 104 + 183</i> )
27.	ð	d=	131	00F0	Eth	vd dental fricative
28.	D	D	704	0044	Upper-case D	D
29.	e	e	302	0065	Lowercase E	close-mid front unrounded vowel
30.	ᵻ	e=^	218	1D4A	Superscript schwa	mid central vowel release
31.	ə	e=	322	0259	Schwa	mid central vowel
32.	ᵻ̣		327	025A	Right-hook schwa	R-coloured mid central vowel ( <i>Equivalent to 322 + 419</i> )
33.	ɐ̯	E=	397	0258	Reversed E	close-mid central unrounded vowel
34.	ɛ	e<	303	025B	Epsilon	open-mid front unrounded vowel
35.	ɞ	e	396	029A	Closed epsilon	open-mid central rounded vowel ( <i>superceded by 395, 1996</i> )
36.	ɜ̯	e>	326	025C	Reversed epsilon	open-mid central unrounded vowel
37.	ɞ̯	O<	395	025E	Closed reversed epsilon	open-mid central rounded vowel
38.	E	E	705	0045	Upper-case E	E
39.	f	f	128	0066	Lowercase F	vl labiodental fricative
40.	f͡ŋ		602	02A9	F-Eng ligature	Velopharyngeal fricative
41.	F	F	622 (=706)	0046	Upper-case F	Falsetto
42.	F	F	706 (use 622)	0046	Upper-case F	F (Falsetto)
43.	ɡ	g<	110	0261	Opentail G	vd velar plosive ( <i>equivalent to 210</i> )
44.	ɡ̊	g>	166	0260	Hooktop G	vd velar implosive
45.	ɡ	g	210	0067	Looptail G	vd velar plosive ( <i>equivalent to 110</i> )
46.	Ɔ	G=	112	0262	Small Capital G	vd uvular plosive
47.	Ɔ̊	G>	168	029B	Hooktop Small Capital G	vd uvular implosive
48.	G	G	707	0047	Upper-case G	G

Alph sorting key	Glyph	Key- strokes	IPA No.	USV	Symbol Name	IPA Phonetic Description
49.	ɣ	g=	141	0263	Gamma	vd velar fricative
50.	ɣ	g=^	422	02E0	Superscript Gamma	velarized
51.	ɤ	O>	315	0264	Ram's Horns	close-mid back unrounded vowel
52.	ħ	h	146	0068	Lowercase H	vl glottal fricative
53.	ḥ	h^	404 (=671)	02B0	Superscript H	aspirated
54.	ḥ	h^	671 (use 404)	02B0	Left-sited superscript H	Pre-aspiration
55.	ħ̤	h>	144	0127	Crossed H	vl pharyngeal fricative
56.	ɦ	h<	147	0266	Hooktop H	vd glottal fricative
57.	ɦ̤	H>	175	0267	Hooked Heng	simultaneous vl postalveolar and velar fricative
58.	ɥ	ɣ< or h=	171	0265	Turned H	vd labial-palatal approximant
59.	Ḥ	H=	173	029C	Small Capital H	vl epiglottal fricative
60.	H	H	708	0048	Upper-case H	H
61.	ɪ	i	301	0069	Lowercase I	close front unrounded vowel
62.	ɪ		394	0131	Undotted I	<i>Not IPA usage</i>
63.	ɪ̄	I=	317	0268	Barred I	close central unrounded vowel
64.	ɪ̯	i	399	0269	Iota	near-close near-front unrounded vowel (superseded by 319, 1989)
65.	ɪ̇	i=	319	026A	Small Capital I	near-close near-front unrounded vowel
66.	I	I	709	0049	Upper-case I	I
67.	j	j	153	006A	Lowercase J	vd palatal approximant
68.	ᵹ	j^	421	02B2	Superscript J	palatalized
69.	ɟ	j<	139	029D	Curly-tail J	vd palatal fricative
70.	ɟ̺		298	01F0	J wedge	vd postalveolar affricate ( <i>not IPA usage</i> )
71.	ɟ̥	j=	108	025F	Barred Dotless J	vd palatal plosive
72.	ɟ̤	j>	164	0284	Hooktop Barred Dotless J	vd palatal implosive
73.	J	J	626 (=710)	004A	Upper-case J	Jaw

Alph sorting key	Glyph	Key- strokes	IPA No.	USV	Symbol Name	IPA Phonetic Description
74.	J	J	710 (use 626)	004A	Upper-case J	J (Jaw)
75.	k	k	109	006B	Lowercase K	ɿ velar plosive
76.	ƙ	k>	165	0199	Hooktop K	ɿ velar implosive ( <i>withdrawn, 1993</i> )
77.	Ꝛ		291	029E	Turned K	<i>Withdrawn, 1979</i>
78.	K	K	711	004B	Upper-case K	K
79.	l	l	155	006C	Lowercase L	ɿ dental or alveolar lateral approximant
80.	ˀ	l ^	426	02E1	Superscript L	lateral release
81.	ɫ	l ~ ~	209	026B	L with tilde	velarized ɿ dental or alveolar lateral approximant
82.	ɭ	l =	148	026C	Belted L	ɿ dental or alveolar lateral fricative
83.	ɭ	l <	156	026D	Right-tail L	ɿ retroflex lateral approximant
84.	ɮ	ɮ =	158	029F	Small Capital L	ɿ velar lateral approximant
85.	ɮ	l >	149	026E	L-Ezh ligature	ɿ dental or alveolar lateral fricative
86.	ɭ		603	02AA	L-S ligature	Lateralized [s]
87.	ɭ		604	02AB	L-Z ligature	Lateralized [z]
88.	λ		295	03BB	Lambda	ɿ dental or alveolar lateral fricative ( <i>Not IPA usage</i> )
89.	λ		294	019B	Barred lambda	ɿ dental or alveolar lateral affricate ( <i>Not IPA usage</i> )
90.	L	ɮ	625 (=712)	004C	Upper-case L	Larynx
91.	L	ɮ	712 (use 625)	004C	Upper-case L	L (Larynx)
92.	m	m	114	006D	Lowercase M	ɿ bilabial nasal
93.	ɱ	m>	115	0271	Left-tail M (at right)	ɿ labiodental nasal
94.	ʊ	u =	316	026F	Turned M	close back unrounded vowel
95.	ɰ	w>	154	0270	Turned M, Right Leg	ɿ velar approximant
96.	M	M	713	004D	Upper-case M	M
97.	n	n	116	006E	Lowercase N	ɿ dental or alveolar nasal
98.	ˀ	n ^	425	207F	Superscript N	nasal release



Alph sorting key	Glyph	Key- strokes	IPA No.	USV	Symbol Name	IPA Phonetic Description
99.	ŋ		293	019E	N, right leg	syllabic nasal ( <i>withdrawn, 1976</i> )
100.	ɲ	n=	118	0272	Left-tail N (at left)	vd palatal nasal
101.	ŋ	n>	119	014B	Eng	vd velar nasal
102.	ɳ	n<	117	0273	Right-tail N	vd retroflex nasal
103.	ɴ	N=	120	0274	Small Capital N	vd uvular nasal
104.	ℕ	N	714	004E	Upper-case N	N
105.	o	o	307	006F	Lowercase O	close-mid back rounded vowel
106.	⦿	p=	176	0298	Bull's Eye	bilabial click
107.	ɵ	O=	323	0275	Barred O	close-mid central rounded vowel
108.	ø	o>	310	00F8	Slashed O	close-mid front rounded vowel
109.	œ	E<	311	0153	Lowercase O-E ligature	open-mid front rounded vowel
110.	Ɔ	E>	312	0276	Small Capital O-E ligature	open front rounded vowel
111.	Ɔ̥		627	0152	Upper-case O-E ligature	Oesophageal speech
112.	ɔ	o<	306	0254	Open O	open-mid back rounded vowel
113.	ω	u	398	0277	Closed omega	near-close near-back rounded vowel ( <i>superceded by 321, 1989</i> )
114.	ℴ	O	715	004F	Upper-case O	O
115.	p	p	101	0070	Lowercase P	vl bilabial plosive
116.	ɸ	p>	159	01A5	Hooktop p	vl bilabial implosive ( <i>withdrawn, 1993</i> )
117.	ℙ	P	716	0050	Upper-case P	P
118.	ɸ	f=	126	0278	Phi	vl bilabial fricative
119.	q	q	111	0071	Lowercase Q	vl uvular plosive
120.	ɢ	q>	167	02A0	Hooktop q	vl uvular implosive ( <i>withdrawn, 1993</i> )
121.	ℚ	Q	717	0051	Upper-case Q	Q
122.	r	r	122	0072	Lowercase R	vd dental or alveolar trill
123.	ɾ	r>	124	027E	Fish-hook R	vd dental or alveolar tap
124.	ɽ		206	027C	Long-leg r	<i>Withdrawn, 1989</i>

Alph sorting key	Glyph	Key- strokes	IPA No.	USV	Symbol Name	IPA Phonetic Description
125.	ɺ	ɺ>	181	027A	Turned Long-leg R	vd alveolar lateral flap
126.	ɺ̥	ɺ<	125	027D	Right-tail R	vd retroflex flap
127.	ɺ̥	ɺ=	151	0279	Turned R	vd dental or alveolar approximant
128.	ɺ̥̥	R<	152	027B	Turned R, Right Tail	vd retroflex approximant
129.	ʀ	R=	123	0280	Small Capital R	vd uvular trill
130.	R	R	718	0052	Upper-case R	R
131.	ɹ̥	R>	143	0281	Inverted Small Capital R	vd uvular fricative
132.	ɹ̥̥	R>^	676	02B6	Superscript inverted small capital R	Uvularized
133.	s	s	132	0073	Lowercase S	vl alveolar fricative
134.	s̥	s^	207	02E2	Superscript S	<i>Withdrawn, 1989</i>
135.	ʂ		297	0161	S wedge	vl postalveolar fricative ( <i>not IPA usage</i> )
136.	ʂ̥	s<	136	0282	Right-Tail S (at left)	vl retroflex fricative
137.	S	S	719	0053	Upper-case S	S
138.	ʃ	s=	134	0283	Esh	vl postalveolar fricative
139.	ʃ̥		204	0286	Curly-tail esh	<i>Withdrawn, 1989</i>
140.	t	t	103	0074	Lowercase T	vl dental or alveolar plosive
141.	ɸ	t>	161	01AD	Hooktop T	vl dental or alveolar implosive ( <i>withdrawn, 1993</i> )
142.	ɸ̥		208	01AB	Left-hook T	palatalized vl dental or alveolar plosive ( <i>withdrawn, 1989</i> )
143.	ɸ̥̥	t<	105	0288	Right-tail T	vl retroflex plosive
144.	ts		211	02A6	T-S ligature	vl dental or alveolar affricate ( <i>superceded by 103 + 132</i> )
145.	tʃ		213	02A7	T-Esh ligature	vl postalveolar affricate ( <i>superceded by 103 + 134</i> )
146.	tʃ̥		215	02A8	T-Curly-tail-C ligature	vl alveolo-palatal affricate ( <i>superceded by 103 + 182</i> )
147.	ɾ	T	201	0287	Turned T	dental click ( <i>superceded by 177, 1989</i> )
148.	T	T	720	0054	Upper-case T	T
149.	θ	t=	130	03B8	Theta	vl dental fricative
150.	θ̥	t=^	217	1DBF	Superscript theta	vl dental fricative release

Alph sorting key	Glyph	Key- strokes	IPA No.	USV	Symbol Name	IPA Phonetic Description
151.	Θ		628	0398	Upper-case Greek Theta	Protruded-tongue voice
152.	u	u	308	0075	Lowercase U	close back rounded vowel
153.	ʉ	ʉ=	318	0289	Barred U	close central rounded vowel
154.	ʊ	ʊ<	321	028A	Upsilon	near-close near-back rounded vowel
155.	U	U	721	0055	Upper-case U	U
156.	v	v	129	0076	Lowercase V	vd labiodental fricative
157.	ʋ	ʋ<	184	2C71		labiodental flap
158.	ʋ	ʋ=	150	028B	Cursive V	vd labiodental approximant
159.	ᵛ	ʋ=^	673	1DB9	Superscript cursive V	Labiodentalized
160.	ʌ	ʊ>	314	028C	Turned V	open-mid back unrounded vowel
161.	V	V	621 (=722)	0056	Upper-case V	Voice
162.	Ṽ	Ṽ	722 (use 621)	0056	Upper-case V	V (Voice)
163.	w	w	170	0077	Lowercase W	vd labial-velar approximant
164.	ᵂ	w^	420	02B7	Superscript W	labialized
165.	ʍ	w=	169	028D	Turned W	vl labial-velar fricative
166.	W	W	623 (=723)	0057	Upper-case W	Whisper
167.	Ṳ	W	723 (use 623)	0057	Upper-case W	W (Whisper)
168.	x	x	140	0078	Lowercase X	vl velar fricative
169.	ˣ	x^	292	02E3	Superscript X	vl velar fricative release
170.	χ	x=	142	03C7	Chi	vl uvular fricative
171.	X	X	724	0058	Upper-case X	X
172.	y	y	309	0079	Lowercase Y	close front rounded vowel
173.	ʏ	y^	496	02B8	Superscript Y	high-front rounding / palatalized ( <i>not IPA usage</i> )
174.	ʎ	ʎ<	157	028E	Turned Y	vd palatal lateral approximant
175.	Y	Y=	320	028F	Small Capital Y	near-close near-front rounded vowel













Alph sorting key	Glyph	Key- strokes	IPA No.	USV	Symbol Name	IPA Phonetic Description
304.			669		Left-bracketed under-ring	Initial partial devoicing
305.			670		Right-bracketed under-ring	Final partial devoicing
306.	!!		672	01C3 01C3	Right-sided double exclamation point	Ventricular
307.	→		674	0362	Subscript right arrow	Slurred articulation
308.	=		675	0347	Subscript equals sign	Alveolarized
309.			677		Superscript double-barred H	Faucalized
310.			678		Superscript O-E ligature	Labialized: Open-rounded
311.	!		679	01C3	Right-sided exclamation point	Harsh
312.	=		680	033F	Superscript equals sign	Unaspirated
313.	↘		681	0354	Subscript left pointer	Laterally offset to the right
314.	↙		682	0355	Subscript right pointer	Laterally offset to the left
315.	˘		683 (=406)	0330	Right-sided subscript tilde	Creaky
316.	[	[	901	005B	Left Square Bracket	begin phonetic transcription
317.	]	]	902	005D	Right Square Bracket	end phonetic transcription
318.	/	/	903	002F	Forward Slash	begin/end phonemic transcription
319.	(	(	906	0028	Left parenthesis	indistinguishable utterance (begin)
320.	)	)	907	0029	Right parenthesis	indistinguishable utterance (end)
321.	((	((	908	0028 0028	Left double parenthesis	Sound obscured (begin)
322.	))	))	909	0029 0029	Right double parenthesis	Sound obscured (end)
323.	{		910	007B	Left brace	Begin prosodic notation
324.	}		911	007D	Right brace	End prosodic notation