

MSKLC Keyboard layout for “IPA Unicode 6.2 (ver. 1.4b) MSK”

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Installing the Keyboard

If you have an older version of the IPA keyboard installed on your computer, you must uninstall that keyboard first. Reboot before continuing with this installation.

The keyboard driver can only be installed on Windows 2000, XP, Vista, Win7 or Win8. This IPA keyboard is a Unicode keyboard and will only work with Unicode applications.

The keyboard is packaged with a setup file as well as several .msi files. In order to someday uninstall your keyboard (and if you ever want to upgrade to a newer version you will want to!) you must keep all of the files on your computer.

To install the MSKLC keyboard:

- Download the zip file and extract the files to a folder of your choosing.
- In Windows Explorer, double-click the IPA folder to view the contents.
- Double-click setup.exe.
- When **User Account Control** window appears, click **Allow** (Vista and Win7 only).
- When the window showing “IPA Unicode 6.2 (ver. 1.4) MSK has been successfully installed” appears, click **Close**.
- You may need to reboot before you are able to select the keyboard.

Associating the Keyboard with a Different Language

This keyboard is automatically associated with the Icelandic language. If you wish to associate it with a different language, follow these instructions:

For Windows XP:

- Go to **Start / (Setting) / Control Panel / Regional and Language Options / Languages** tab
- Click on the **Details...** button.
- Click on **Add**.
- Where it says **Input Language**, choose **Icelandic** (or you can choose another language to associate it with).
- Choose **IPA Unicode 6.2 (ver. 1.4) MSK** for **Keyboard Layout/IME**.
- Click **OK**.
- Click on **Language Bar** button. Make sure **Show the Language bar on the desktop** is selected.
- If you wish to assign a "hotkey" in order to switch to this keyboard, you may do so by clicking on **Key Settings...**, select **Switch to Icelandic...** and select **Change Key Sequence...** Select **Enable Key Sequence** and choose the keystrokes you wish to assign to this keyboard (for the purposes of these instructions- **Left-Alt+Shift+9**)
- Click on **OK, OK** and **OK**.
- You may need to reboot before you are able to select the keyboard.

For Windows Vista and Windows 7:

- Go to **Start / Control Panel / Regional and Language Options / Keyboards and Languages** tab
- Click on the **Change Keyboards...** button.
- Click on **Add**.
- Where it says **Input Language**, choose **Icelandic** (or you can choose another language to associate it with).
 - Click on the "+" to expand your selection
 - Click on **Show more...** and select **IPA Unicode 6.2 (ver. 1.4) MSK**
 - Click **OK**.
- Click on **Language Bar** tab. For the **Language bar**, select either **Floating on Desktop** or **Docked in the taskbar**.
- If you wish to assign a "hotkey" in order to switch to this keyboard, you may do so by clicking on **Advanced Key Settings**, select your keyboard and select **Change Key Sequence...** Select **Enable Key Sequence** and choose the keystrokes you wish to assign to this keyboard (for the purposes of these instructions- **Left-Alt+Shift+9**)
- Click on **OK, OK** and **OK**.
- You may need to reboot before you are able to select the keyboard.

Uninstalling the Keyboard

When you are ready to uninstall your keyboard:

- Right-click on the keyboard icon and select **Settings...**
- In **Text Services and Input Languages / Settings** tab, select "IPA Unicode 6.2 (ver. 1.4) MSK" and click **Remove**, then click **OK**.
- Find the IPA folder where you originally installed the keyboard.
- Double-click **setup.exe**.
- Click **Remove the keyboard layout**, if it is not already selected.
- Click **Finish**.

- When the **User Account Control** dialog box appears, click **Allow** (Vista and Win7 only).
- When the **Installation Complete** dialog box appears indicating the keyboard has been removed, click **Close**.
- You may need to reboot before the keyboard is completely removed from the system.

The keyboard has been uninstalled. You may also wish to delete the IPA folder to remove the files and install program.

Selecting the Keyboard

The **IPA Unicode 6.2 (ver. 1.4) MSK** keyboard has been automatically associated with the **Icelandic** language¹. To use the keyboard, open the application you wish to type in.

To select the keyboard:

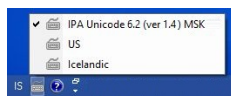
- Change to **Icelandic**, by clicking the language ID in the system tray. For example, this will be “IS” if Icelandic.



- Another way to change to **Icelandic**, is to type **Left-Alt+Shift+9** (whatever keystrokes you chose to associate with this keyboard).

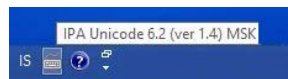
If you have associated two keyboards with one language, the process is somewhat different:

- Change to **Icelandic**, by clicking the language ID in the system tray. For example, this will be “IS” if Icelandic. Select **Icelandic**.
- Right-click a blank area on the taskbar and if necessary, unlock the taskbar, by clicking “**Lock the taskbar**” to remove the checkmark by it.
- Drag the dotted divider on the taskbar so that you can see both “EN” and a small keyboard icon. This icon is used to change between various keyboards.
- Click the keyboard icon and select **IPA Unicode 6.2 (ver. 1.4) MSK**.



Your new keyboard should be active and ready to use.

Note that if you hover over the keyboard icon, it will tell you the name of the current keyboard (if you hover over the Language ID it will tell you your language is Icelandic).



To turn off the **IPA Unicode 6.2 (ver. 1.4) MSK** keyboard:

- Click the keyboard icon on the system tray and select the language you are switching to.

Note that if only one keyboard is assigned to a language, the keyboard icon will not appear, since there is no other keyboard to choose.

¹ Unfortunately, Windows does not have an "IPA" language. After installing, if you wish, you can associate it with any other language (see separate section which discusses how to do that).

Fonts

The newest versions of Doulos SIL (<http://scripts.sil.org/DoulosSIL>) and Charis SIL (<http://scripts.sil.org/CharisSIL>) contain all of the characters used in this keyboard. Older versions may not have all of the characters. The pitch contours (found on the number keys with the = deadkey) are in SIL's corporate PUA and will not likely be found in any other font (there are also superscript characters which are in SIL's corporate PUA and will not likely be found in any other font). Ligation for the pitch contours will only work in applications which support Graphite. A description of the pitch contours can be found here: http://scripts.sil.org/DoulosSIL_download#pitch.

IPA Keyboard Layout

This keyboard makes extensive use of “dead keys.” A “dead key” is a key that does not generate a character, but rather changes the character generated by a following keystroke. For example, in this keyboard, to get the “ŋ”, you would type the dead key “>” followed by the “n” (>n).

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).**

Consonants

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

Other Symbols

ʋ =w	ʋ labial-velar fricative	ç <c	ç alveolo-palatal fricative
ʋ w	ʋ labial-velar approximant	ʐ >z	ʐ alveolo-palatal fricative
ɥ <Y or =h	ɥ labial-palatal approximant	ɭ >L	ɭ alveolar lateral flap
H =H	H epiglottal fricative	ɦ >H	ɦ simultaneous f and x
ɕ <Q	ɕ epiglottal fricative		
ʕ =Q	ʕ epiglottal plosive		

Vowels

	Front		Central		Back	
	Unrounded	Rounded	Unrounded	Rounded	Unrounded	Rounded
Close	i i	y y	ɨ =ɪ	ɥ =ʉ	ɯ =u	u u
Near-close	ɪ =i	ʏ =y				ʊ <u
Close-mid	e e	ø >o	ɘ =ɛ	ɵ =o	ɤ >o	o o
Mid			ə =e			
Open-mid	ɛ <e	œ <ɛ	ɜ >e	ɞ <o	ʌ >u	ɔ <o
Near-open	æ <a		ɛ >a			
Open	a a	ɶ >ɛ			ɑ =a	ɒ =o

Suprasegmentals

ˈ > |	Primary stress
ˌ < |	Secondary stress
eː = : :	Long
eˑ < : :	Half long
eːː = : : : :	Extra long
ẽ @*	Extra short
ˌ < .	Minor (foot) group
ˌ = .	Major (intonation) group
·	Syllable break
˘ = #	Linking (absence of a break)

Other (non-IPA) Vowels

æ	>A	α	| a	open central unrounded vowel
ɪ	| i	Λ	| A	open central unrounded
ɨ	>I	ɹ	| z	unrounded alveolar apical
ɤ	<I	ɻ	| Z	unrounded retroflex apical
ɥ	>U	ɽ	| Y	rounded alveolar apical
ɘ	| u	ɿ	| Y	rounded retroflex apical
ɛ	| E			
ɞ	| e			

Other (non-IPA) Symbols

ɕ	>c	vi palatal implosive
ɗ	| d	alveolo-palatal vd plosive
ɥ̃	| h	vd pharyngeal nasal
ɕ	>k	vi velar implosive
ɮ	| l	front-palatal vd lateral approximant
ɳ	| n	front-palatal vd nasal
ɸ	>p	vi bilabial implosive
ɕ	>q	vi uvular implosive
ɟ	=s	vi retroflex postalveolar fricative
ɸ	>t	vi dental or alveolar implosive
ɮ	| t	front-palatal vi plosive
ɰ	| T	dental click
ʋ	<w	bilabial flap
ɟ	=z	vd retroflex postalveolar fricative
+	+	
∅	=0	Empty set
◌̣	>0	Diacritic "holder"

Tone and Word accents

Level ²			Contour ³				
ɿ	#4	ě @4	Extra high	/	#0#4	ě @5	Rising
ɿ	#3	é @3	High	∨	#4#0	ê @^	Falling
ɿ	#2	ē @2	Mid	↑	#2#4	ě @6	High rising
ɿ	#1	è @1	Low	↓	#1#2	ě @7	Low rising
ɿ	#0	è @0	Extra low	∧	#1#4#1	ě @ [	Rising-falling
		u # [	Downstep			ě @8	Low falling
		u #]	Upstep			ě @9	High falling
		! ^!	Africanist downstep			ě @]	Falling-rising
		i #!	Africanist upstep (raised)			↗ # }	Global rise
		i @!	Africanist upstep (lowered)			↘ # {	Global fall

Tone numbers and pitch contours (non-IPA)

— — — — — — — — — —	=1 =2 =3 =4 =5 =6 =7 =8 =9	Level pitch contours from 1 to 9 ⁴
3	^3 (0-9)	superscript number
-	^-	superscript hyphen

² Use “&” for Left-stem level tones, e.g. “&0” becomes A712 (Γ).

³ Glides to and from any level (e.g. “#3#2” becomes ɿ) and any sequence of any two glides (e.g. “#3#1#4” becomes ɿ).

⁴ These require the use of Charis SIL (<http://scripts.sil.org/CharisSIL>) or Doulos SIL (<http://scripts.sil.org/DoulosSIL>) version 4.1 or greater. They will turn into contours if used in Graphite applications.

Diacritics & Suprasegmentals

k ^h	^h	Aspirated
t ^w	^w	Labialised
t ^j	^j	Palatalised
l ^y	#g	Velarised
t ^ʕ	#?	Pharyngealised
ⁿ k	^n	Pre/post nasalised
t ^l	^l	Lateral release
k ^ʰ	='	Light aspiration
e [̣]	[Rhoticity
t ^ʼ	>'	Ejective
t [̚]]	No audible release
b ^ʰ	<'	Weak aspiration
l̥	& |	Syllabic
ᵛ	& *	Non-syllabic
ᵝ	& ~	Creaky voiced
ᵞ	& %	Voiceless
ᵟ	& 5	Voiced
ᵠ	& "	Breathy voiced
ᵡ	@%	Voiceless (diacritics are sometimes placed above a symbol with a descender)
ᵢ	@|	Syllabic (diacritics are sometimes placed above a symbol with a descender)
ᵣ	& [	Dental
ᵤ	&]	Apical
ᵥ	& {	Laminal
ᵗ	& }	Linguolabial
ᵘ	& .	Closer variety / Fricative
ᵚ	@~	Nasalised
ᵜ	@"	Centralised
ᵞ	@+	Mid centralised
ᵠ	@*	Extra short
ᵡ	@.	Palatalization/Centralization

ᵠ	@:	
ᵡᵣ	&#	Double articulation / affricate ⁵
ᵡs	&@	Double articulation / affricate ⁶
ᵣ	&+	Advanced
ᵣ	&_	Retracted
ᵣ	&6	Raised
ᵣ	&7	Lowered
ᵣ	&8	+ATR
ᵣ	&9	-ATR
ᵣ	&)	More rounded
ᵣ	&(	Less rounded
ᵣ	&,	open vowel
ᵣ	&!	Fortis
ᵣ	&\$	Lenis
→	=>	Becomes, is realized as
σ	>S	Syllable
ᵠ	=<	Combining Grapheme Joiner

⁵ Typed between the characters. Thus k&#p.

⁶ Typed between the characters. Thus t&@s.

Superscripts

3	^3 (0-9)
(^(
)	^)
-	^-
+	^+
=	^=
a	^a
ʌ	^A
ɑ	#a
ɒ	#A
æ	#b
æ̃	#B
b	^b
β	^B
c	^c
ç	^C
d	^d
ð	^D
ç	^e
ɔ	^E
ɜ	#e
ɛ	#E
ə	#c
f	^f
φ	^F
g	^g
ɠ	^G
ɣ	#g
h	^h
ɦ	^H
ç	#Y
ħ	#h
i	^i

ɪ	^I
ɨ	#i
j	^j
ɰ	^J
ɶ	#j
k	^k
l	^l
ɭ	^L
ɮ	#l
ʎ	#Y
m	^m
ɱ	^M
n	^n
ɳ	^N
ɲ	#J
ɳ	#n
ɽ	#N
o	^o
ɔ	^O
ø	#o
ø̃	#O
œ̃	#d
œ̃	#D
ɶ	#C
p	^p
r	^r
ɽ	^R
ɽ	#r
ɽ	#R
s	^s
ʂ	^S
ʃ	#s
t	^t

θ	#t
u	^u
ʊ	^U
#	#u
v	^v
ʌ	^V
ʋ	#v
w	^w
ʍ	^W
ɥ	#m
x	^x
ɣ̃	^X
y	^y
ɣ̃	^Y
z	^z
ʐ	^Z
ʑ	#z
ʒ	#Z
?̃	^?
ʔ	#?

Retroflex

ɖ	&a
ɗ	&A
ɛ̠	&d
ɛ̠	&e
ɛ̠	&E
ɖ̠	&b
ɗ̠	&B
ɰ̠	&i
ɶ̠	&o
ʃ̠	&s
ɽ̠	&u
ʐ̠	&z

Palatal

ɸ	@b
ɸ	@d
ɸ	@f
ɸ	@g
ɸ	@k
ɸ	@l
ɸ	@m
ɸ	@n
ɸ	@p
ɸ	@r
ɸ	@s
ɸ	@S
ɸ	@v
ɸ	@x
ɸ	@z

Velarized (or pharyngealized)

ɸ̠	~b
ɸ̠	~d
ɸ̠	~f
ɸ̠	~l
ɸ̠	~m
ɸ̠	~n
ɸ̠	~p
ɸ̠	~r
ɸ̠	~R
ɸ̠	~s
ɸ̠	~t
ɸ̠	~z

Appendix: IPA number chart

Green denotes IPA characters unsupported by this keyboard.

Alph sorting key	Glyph	Key- strokes	IPA No.	USV	Symbol Name
1.	a	a	304	0061	Lowercase A
2.	ɸ	>a	324	0250	Turned A
3.	ɑ	=a	305	0251	Script A
4.	ɒ	=o	313	0252	Turned Script A
5.	æ	<a	325	00E6	Ash; Lowercase A-E ligature
6.	A	À	701	0041	Upper-case A
7.	b	b	102	0062	Lowercase B
8.	ʙ	>b	160	0253	Hooktop B
9.	Ɂ	=B	121	0299	Small Capital B
10.	β	=b	127	03B2	Beta
11.	B	B	702	0042	Upper-case B
12.	c	c	107	0063	Lowercase C
13.	ɸ	>c	163	0188	Hooktop C
14.	č		299	010D	C wedge
15.	ç	=c	138	00E7	C Cedilla
16.	ɸ	<c	182	0255	Curly-tail C
17.	Ĉ		202	0297	Stretched C
18.	C	C	624 (=703)	0043	Upper-case C
19.	Ā	Ā	703 (use 624)	0043	Upper-case C
20.	d	d	104	0064	Lowercase D
21.	ɸ	>d	162	0257	Hooktop D
22.	ɸ	<d	106	0256	Right-tail D
23.	ɸ	&d	219	1D91	Hooktop right-tail D
24.	ɸ		212	02A3	D-Z ligature
25.	ɸ		214	02A4	D-Ezh ligature
26.	ɸ		216	02A5	D-Curly-tail-Z ligature
27.	ð	=d	131	00F0	Eth
28.	D	D	704	0044	Upper-case D
29.	e	e	302	0065	Lowercase E

Alph sorting key	Glyph	Key- strokes	IPA No.	USV	Symbol Name
30.	◌̆	^E	218	1D4A	Superscript schwa
31.	ə	=e	322	0259	Schwa
32.	ə̆		327	025A	Right-hook schwa
33.	ɐ	=E	397	0258	Reversed E
34.	ɛ	<e	303	025B	Epsilon
35.	ɞ	|e	396	029A	Closed epsilon
36.	ɜ	>e	326	025C	Reversed epsilon
37.	ɞ̌	<O	395	025E	Closed reversed epsilon
38.	E	E	705	0045	Upper-case E
39.	f	f	128	0066	Lowercase F
40.	fi		602	02A9	F-Eng ligature
41.	F	F	622 (=706)	0046	Upper-case F
42.	F	F	706 (use 622)	0046	Upper-case F
43.	g	<g	110	0261	Opentail G
44.	ɡ̃	>g	166	0260	Hooktop G
45.	g	g	210	0067	Looptail G
46.	G	=G	112	0262	Small Capital G
47.	Ɔ	>G	168	029B	Hooktop Small Capital G
48.	G	G	707	0047	Upper-case G
49.	γ	=g	141	0263	Gamma
50.	γ̆	#g	422	02E0	Superscript Gamma
51.	ʁ	>O	315	0264	Ram's Horns
52.	h	h	146	0068	Lowercase H
53.	h̆	^h	404 (=671)	02B0	Superscript H
54.	h̆	^h	671 (use 404)	02B0	Left-sited superscript H
55.	ħ	>h	144	0127	Crossed H
56.	ɦ	<h	147	0266	Hooktop H
57.	ɦ̃	>H	175	0267	Hooked Heng
58.	ɥ	<Y or =h	171	0265	Turned H
59.	H	=H	173	029C	Small Capital H
60.	H	H	708	0048	Upper-case H

Alph sorting key	Glyph	Key- strokes	IPA No.	USV	Symbol Name
61.	i	ı	301	0069	Lowercase I
62.	ı		394	0131	Undotted I
63.	İ	=I	317	0268	Barred I
64.	ı̇	|ı	399	0269	Iota
65.	I	=ı	319	026A	Small Capital I
66.	I	I	709	0049	Upper-case I
67.	j	ı̇	153	006A	Lowercase J
68.	ı̇	^ı̇	421	02B2	Superscript J
69.	ı̇	<ı̇	139	029D	Curly-tail J
70.	ı̸̇		298	01F0	J wedge
71.	ı̇	=ı̇	108	025F	Barred Dotless J
72.	ı̇	>ı̇	164	0284	Hooktop Barred Dotless J
73.	J	J	626 (=710)	004A	Upper-case J
74.	J	J	710 (use 626)	004A	Upper-case J
75.	k	k	109	006B	Lowercase K
76.	ƀ	>k	165	0199	Hooktop K
77.	ƀ		291	029E	Turned K
78.	K	K	711	004B	Upper-case K
79.	l	l	155	006C	Lowercase L
80.	ı̇	^ı̇	426	02E1	Superscript L
81.	ł	~ı̇	209	026B	L with tilde
82.	ł	=ı̇	148	026C	Belted L
83.	ł	<ı̇	156	026D	Right-tail L
84.	L	=ı̇	158	029F	Small Capital L
85.	ł	>ı̇	149	026E	L-Ezh ligature
86.	ł		603	02AA	L-S ligature
87.	ł		604	02AB	L-Z ligature
88.	λ		295	03BB	Lambda
89.	λ̇		294	019B	Barred lambda
90.	L	L	625 (=712)	004C	Upper-case L
91.	L	L	712 (use 625)	004C	Upper-case L
92.	m	m	114	006D	Lowercase M

Alph sorting key	Glyph	Key- strokes	IPA No.	USV	Symbol Name
93.	ɱ	>m	115	0271	Left-tail M (at right)
94.	ʍ	=u	316	026F	Turned M
95.	ɰ	>w	154	0270	Turned M, Right Leg
96.	M	M	713	004D	Upper-case M
97.	n	n	116	006E	Lowercase N
98.	ⁿ	^n	425	207F	Superscript N
99.	ɱ		293	019E	N, right leg
100.	ɱ	=n	118	0272	Left-tail N (at left)
101.	ŋ	>n	119	014B	Eng
102.	ɳ	<n	117	0273	Right-tail N
103.	ɴ	=N	120	0274	Small Capital N
104.	N	N	714	004E	Upper-case N
105.	o	o	307	006F	Lowercase O
106.	⊙	=p	176	0298	Bull's Eye
107.	ø	=O	323	0275	Barred O
108.	ø	>o	310	00F8	Slashed O
109.	œ	<E	311	0153	Lowercase O-E ligature
110.	Œ	>E	312	0276	Small Capital O-E ligature
111.	Œ		627	0152	Upper-case O-E ligature
112.	ɔ̞	<o	306	0254	Open O
113.	ω	|u	398	0277	Closed omega
114.	O	O	715	004F	Upper-case O
115.	p	P	101	0070	Lowercase P
116.	ɸ	>p	159	01A5	Hooktop p
117.	P	P	716	0050	Upper-case P
118.	ϕ	=f	126	0278	Phi
119.	q	q	111	0071	Lowercase Q
120.	ɸ	>q	167	02A0	Hooktop q
121.	Q	Q	717	0051	Upper-case Q
122.	r	r	122	0072	Lowercase R
123.	ɾ	>r	124	027E	Fish-hook R
124.	ɿ		206	027C	Long-leg r
125.	ɿ	>L	181	027A	Turned Long-leg R





















Alph sorting key	Glyph	Key- strokes	IPA No.	USV	Symbol Name
126.	ɿ	<r	125	027D	Right-tail R
127.	ɿ	=r	151	0279	Turned R
128.	ɿ	<R	152	027B	Turned R, Right Tail
129.	R	=R	123	0280	Small Capital R
130.	R	R	718	0052	Upper-case R
131.	ɿ	>R	143	0281	Inverted Small Capital R
132.	ɿ	^R	676	02B6	Superscript inverted small capital R
133.	s	S	132	0073	Lowercase S
134.	s	^S	207	02E2	Superscript S
135.	§		297	0161	S wedge
136.	§	<S	136	0282	Right-Tail S (at left)
137.	S	S	719	0053	Upper-case S
138.	ʃ	=S	134	0283	Esh
139.	ʃ		204	0286	Curly-tail esh
140.	t	t	103	0074	Lowercase T
141.	ʈ	>t	161	01AD	Hooktop T
142.	ʈ		208	01AB	Left-hook T
143.	ɿ	<t	105	0288	Right-tail T
144.	ʈs		211	02A6	T-S ligature
145.	ʈʃ		213	02A7	T-Esh ligature
146.	ʈʃ		215	02A8	T-Curly-tail-C ligature
147.	ɿ	|T	201	0287	Turned T
148.	T	T	720	0054	Upper-case T
149.	θ	=t	130	03B8	Theta
150.	θ	#t	217	1DBF	Superscript theta
151.	Θ		628	0398	Upper-case Greek Theta
152.	u	u	308	0075	Lowercase U
153.	u	=U	318	0289	Barred U
154.	υ	<u	321	028A	Upsilon
155.	U	U	721	0055	Upper-case U
156.	v	v	129	0076	Lowercase V
157.	ʋ	<v	184	2C71	
158.	υ	=v	150	028B	Cursive V

Alph sorting key	Glyph	Key- strokes	IPA No.	USV	Symbol Name
159.	ʋ	#v	673	1DB9	Superscript cursive V
160.	ʌ	>u	314	028C	Turned V
161.	V	V	621 (=722)	0056	Upper-case V
162.	ⱱ	ⱱ	722 (use 621)	0056	Upper-case V
163.	w	w	170	0077	Lowercase W
164.	ʷ	^w	420	02B7	Superscript W
165.	ʍ	=w	169	028D	Turned W
166.	W	W	623 (=723)	0057	Upper-case W
167.	Ⱳ	Ⱳ	723 (use 623)	0057	Upper-case W
168.	x	x	140	0078	Lowercase X
169.	ˣ	^x	292	02E3	Superscript X
170.	χ	=x	142	03C7	Chi
171.	X	X	724	0058	Upper-case X
172.	y	Y	309	0079	Lowercase Y
173.	ʏ	^y	496	02B8	Superscript Y
174.	ʎ	<L	157	028E	Turned Y
175.	Ʒ	=Y	320	028F	Small Capital Y
176.	Y	Y	725	0059	Upper-case Y
177.	z	z	133	007A	Lowercase Z
178.	Ẓ		296	017E	Z wedge
179.	ʐ	>z	183	0291	Curly-tail Z
180.	z͡	<z	137	0290	Right-tail Z
181.	Ʒ	=z	135	0292	Ezh; Tailed Z
182.	ʐ͡		205	0293	Curly-tail ezh
183.	Z	Z	726	005A	Upper-case Z
184.	ʔ	=?	113	0294	Glottal Stop
185.	ʔ̰	<?	145	0295	Reversed Glottal Stop
186.	ʔ̤	=Q	172	02A1	Barred Glottal Stop
187.	ʔ̰̤	<Q	174	02A2	Barred Reversed Glottal Stop
188.	|	<!	177	01C0	Pipe
189.	!	|!	178	01C3	Exclamation Point
190.	‡	>!	179	01C2	Double-barred Pipe

Alph sorting key	Glyph	Key- strokes	IPA No.	USV	Symbol Name
191.	||	= !	180	01C1	Double Vertical Line
192.	ɰ		203	0296	Inverted glottal stop
193.	2̄		290	01BB	Barred two
194.	'	> '	401	02BC	Apostrophe
195.	◌̣	&%	402a	0325	Under-ring
196.	◌̥	@%	402b	030A	Over-ring
197.	◌̵	&5	403 (=663, 664)	032C	Subscript Wedge
198.	◌̦	&"	405	0324	Subscript Umlaut
199.	◌̧	&~	406	0330	Subscript Tilde
200.	◌̨	&}	407	033C	Subscript Seagull
201.	◌̩	&[	408	032A	Subscript Bridge
202.	◌̪	&]	409	033A	Inverted Subscript Bridge
203.	◌̫	&{	410	033B	Subscript Square
204.	◌̬	&)	411	0339	Subscript Right Half-ring
205.	◌̭	&(	412	031C	Subscript Left Half-ring
206.	◌̮	&+	413	031F	Subscript Plus
207.	◌̯	&_	414	0320	Under-bar
208.	◌̰	@"	415	0308	Umlaut
209.	◌̱	@+	416	033D	Over-cross
210.	◌̲	&8	417	0318	Advancing Sign
211.	◌̳	&9	418	0319	Retracting Sign
212.	◌̴	|[	419	02DE	Right Hook
213.	◌̵	#?	423	02E4	Superscript reversed glottal stop
214.	◌̶	@~	424	0303	Superscript Tilde
215.	◌̷	|]	427	031A	Corner
216.	◌̸		428	0334	Superimposed tilde
217.	◌̹	&6	429	031D	Raising Sign
218.	◌̺	&7	430	031E	Lowering Sign
219.	◌̻	&|	431	0329	Syllabicity Mark
220.	◌̼	&*	432	032F	Subscript Arch
221.	◌̽	&#	433	0361	Top Tie Bar
222.	◌̾	&@	433	035C	Bottom Tie Bar

Alph sorting key	Glyph	Key- strokes	IPA No.	USV	Symbol Name
223.	◌̂		489	0322	Subscript right hook
224.	┌		490	?	Open corner
225.	,	,	491	002C	Comma
226.	‘	< ’	492	02BB	Reversed apostrophe
227.	◌̇	@.	493	0307	Over-dot
228.	-		494	02D7	Minus sign
229.	+		495	02D6	Plus sign
230.	◌̣	& .	497	0323	Under-dot
231.	◌̃		498	0321	Subscript left hook
232.	◌̄		499	032B	Subscript W
233.	⋮	> |	501	02C8	Vertical Stroke (Superior)
234.	⋮	< |	502	02CC	Vertical Stroke (Inferior)
235.	⋮	= :	503	02D0	Length Mark
236.	⋮	< :	504	02D1	Half-length Mark
237.	◌̆	@*	505	0306	Breve
238.	.		506 (631, 632, 633)	002E	Period
239.	|	< .	507	007C	Vertical Line
240.	||	= .	508	2016	Double vertical line (thick)
241.	⏟	=#	509	203F	Bottom Tie Bar
242.	↗	#}	510	2197	Upward Diagonal Arrow
243.	↘	#{	511	2198	Downward Diagonal Arrow
244.	◌̈́	@4	512	030B	Double Acute Accent (over)
245.	◌̇	@3	513	0301	Acute Accent (over)
246.	◌̄	@2	514	0304	Macron
247.	◌̆	@1	515	0300	Grave Accent (over)
248.	◌̈́	@0	516	030F	Double Grave Accent (over)
249.	⤵	#[	517	A71C	Down Arrow
250.	⤴	#]	518	A71B	Up Arrow
251.	⏏	#4	519	02E5	Extra-high Tone Bar
252.	⏏	#3	520	02E6	High Tone Bar
253.	⏏	#2	521	02E7	Mid Tone Bar
254.	⏏	#1	522	02E8	Low Tone Bar

Alph sorting key	Glyph	Key- strokes	IPA No.	USV	Symbol Name
255.	┘	#0	523	02E9	Extra-low Tone Bar
256.	◌̘	@5	524	030C	Wedge
257.	◌̂	@^	525	0302	Circumflex
258.	◌̄̇	@6	526	1DC4	Macron plus acute accent
259.	◌̄̈́	@7	527	1DC5	Grave accent plus macron
260.	◌̄̈́̂	@[	528	1DC8	Grave plus acute plus grave accent
261.	⤴	#0#4	529	02E9 02E5	Rising tone letter
262.	⤵	#4#0	530	02E5 02E9	Falling tone letter
263.	⤶	#2#4	531	02E7 02E5	High-rising tone letter
264.	⤷	#1#2	532	02E9 02E7	Low-rising tone letter
265.	⤸	#1#4#1	533	02E8 02E5 02E8	Rising-falling tone letter
266.	◌̂̆		595	0311	Superscript arch
267.	◌̘		596	02C7	Wedge; háček
268.	◌̂		597	02C6	Circumflex
269.	◌̘̇		598	0316 / 02CE	Subscript grave accent
270.	◌̘̈́		599	0317 / 02CF	Subscript acute accent
271.	◌̂̆̆		601	02AD	Double bridge
272.	◌̆		611	274D	Balloon
273.	*		612	002A	Asterisk
274.	(.)		631 (use 506)	002E	Bracketed single period
275.	(..)		632 (use 506)	002E 002E	Bracketed double period
276.	(...)		633 (use 506)	002E 002E 002E	Bracketed triple period
277.			634	1D191	Forte
278.			635		Fortissimo
279.			636		Piano
280.			637	1D18F	Pianissimo
281.			638		Allegro
282.			639		Lento
283.	1	1	640	0031	Numeral one
284.	2	2	641	0032	Numeral two
285.	3	3	642	0033	Numeral three
286.	◌̆̆̆		651	0346	Superscript bridge

Alph sorting key	Glyph	Key- strokes	IPA No.	USV	Symbol Name
287.			652	034D	Subscript double arrow
288.			653	032A 0346	Superscript+subscript bridge
289.			654	034A	Superscript slashed tilde
290.			655	034B	Superscript dotted tilde
291.			656	034C	Superscript double tilde
292.			657	0348	Subscript double syllabicity mark
293.			658	0349	Subscript corner
294.			659	005C	Backslash
295.			660	034E	Subscript upward arrow-head
296.			661	2193	Down full arrow
297.			662	2191	Up full arrow
298.			663 (use 403)	02EC	Left-sided subscript wedge
299.			664 (=403)	02EC	Right-sided subscript wedge
300.			665		Bracketed subscript wedge
301.			666		Left-bracketed subscript wedge
302.			667		Right-bracketed subscript wedge
303.			668		Bracketed under-ring
304.			669		Left-bracketed under-ring
305.			670		Right-bracketed under-ring
306.			672	01C3 01C3	Right-sided double exclamation point
307.			674	0362	Subscript right arrow
308.			675	0347	Subscript equals sign
309.			677		Superscript double-barred H
310.			678		Superscript O-E ligature
311.			679	01C3	Right-sided exclamation point
312.			680	033F	Superscript equals sign
313.			681	0354	Subscript left pointer
314.			682	0355	Subscript right pointer
315.			683 (=406)	0330	Right-sided subscript tilde
316.	[	[	901	005B	Left Square Bracket
317.	]	]	902	005D	Right Square Bracket
318.	/	/	903	002F	Forward Slash

Alph sorting key	Glyph	Key- strokes	IPA No.	USV	Symbol Name
319.	(	(	906	0028	Left parenthesis
320.	)	)	907	0029	Right parenthesis
321.	((	((	908	0028 0028	Left double parenthesis
322.	))	))	909	0029 0029	Right double parenthesis
323.	{	{	910	007B	Left brace
324.	}	}	911	007D	Right brace