

IPA Unicode 5.0c (ver 1.1.5) KMN

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Technical Support

If you have problems using the SIL Unicode IPA keyboard, please contact:

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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 | | | t t | | ʈ t< | c c | k k | q q | | ? ?= |
| | 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 ¹ 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> | | | | | | | |
| Approximate | | ɥ v= | | ɹ r= | | ɻ R< | j j | ɥ w> | | | |
| Lateral Approximate | | | | ɭ l | | ɻ l< | ʎ L< | ɮ L= | | | |

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

¹ This requires the use of Charis SIL (<http://scripts.sil.org/CharisSILfont>) or Doulos SIL (<http://scripts.sil.org/DoulosSILfont>).

Other Consonants

| Clicks | | | Voiced implosives | | |
|--------|----|------------------|-------------------|----|-----------------|
| ◌ǀ | p= | Bilabial | ◌ɓ | b> | Bilabial |
| ◌ǃ | !< | Dental | ◌ɗ | d> | Dental/alveolar |
| ◌ǂ | !< | (Post)alveolar | ◌ɟ | j> | Palatal |
| ◌ǁ | !< | Palatoalveolar | ◌ɠ | g> | Velar |
| ◌ǁ̥ | !> | Alveolar lateral | ◌ɣ | g> | Uvular |

Other Symbols

| | | | | | |
|-----|----------|-------------------------------|------|----|------------------------------|
| ◌ʋ | w= | Vl labial-velar fricative | ◌ɕ | c< | vd alveolo-palatal fricative |
| ◌ʋ̥ | w | Vd labial-velar approximant | ◌ɟ͡ʝ | z> | Vd alveolo-palatal fricative |
| ◌ɥ | Y< or h= | Vd labial-palatal approximant | ◌ɹ̥ | ɹ> | Vd alveolar lateral flap |
| ◌ħ | H= | Vl epiglottal fricative | ◌ɦ | H> | Simultaneous f and x |
| ◌ʕ | Q< | Vd epiglottal fricative | | | |
| ◌ʔ | Q= | Vd epiglottal plosive | | | |

Vowels

| | Front | | Central | | Back | |
|------------|-----------|---------|-----------|---------|-----------|---------|
| | Unrounded | Rounded | Unrounded | Rounded | Unrounded | Rounded |
| Close | ◌i i | ◌y y | ◌ɨ ɨ= | ◌ɯ ɯ= | ◌ɯ u= | ◌u u |
| Near-close | ◌ɪ i= | ◌ʏ y= | | | | ◌ʊ u< |
| Close-mid | ◌e e | ◌ø o> | ◌ə E= | ◌ɐ 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< | | ◌ɶ a> | | | |
| Open | ◌a a | ◌ɶ E> | | | ◌ɑ a= | ◌ɒ o= |

Suprasegmentals

| | | |
|------|-----|------------------------------|
| ◌ˈ | } | Primary stress |
| ◌ˌ | }}} | Secondary stress |
| ◌eː | : | Long |
| ◌eˑ | :: | Half long |
| ◌eːː | ::: | Extra long |
| ◌e̞ | *** | Extra short |
| ◌ˑ | .< | Minor (foot) group |
| ◌ˑˑ | .= | Major (intonation) group |
| ◌ˑ | . | Syllable break |
| ◌ˑ | #= | Linking (absence of a break) |

Other (non-IPA) Vowels

| | |
|---|------------------------------------|
| æ A> | α a open central unrounded vowel |
| ɪ i near-close near-front unrounded | ʌ ʌ open central unrounded |
| ɨ I> | ɹ z unrounded alveolar apical |
| ɨ I< lower-high central unrounded or high back unrounded | ɻ z unrounded retroflex apical |
| ɤ U> high front rounded | ɣ y rounded alveolar apical |
| ɯ u near-close back rounded | ɣ ɣ rounded retroflex apical |
| ɛ E mid front unrounded | |
| ɐ e open-mid front rounded | |

Tone and Word accents

| Level ² | | | Contour ³ | | |
|--------------------|-------|------------|----------------------|--------|----------------|
| ɿ #4 | é @4 | Extra high | ʌ #04 | ě @13 | Rising |
| ɿ #3 | é @3 | High | ʌ #40 | ê @31 | Falling |
| ɿ #2 | ē @2 | Mid | ʌ #24 | ě @23 | High rising |
| ɿ #1 | è @1 | Low | ɿ #12 | è @12 | Low rising |
| ɿ #0 | è @0 | Extra low | ʌ #141 | ě @131 | Rising-falling |
| | | | | è @21 | Low falling |
| | | | | ê @32 | High falling |
| | | | | ě @313 | Falling-rising |
| | ↓4 #< | Downstep | | ↗ #>> | Global rise |
| | ↑5 #> | Upstep | | ↘ #<< | Global fall |

Tone numbers and pitch contours (non-IPA)

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

Other (non-IPA) Symbols

| | |
|-------------------|--------------------------------------|
| ç c> | vi palatal implosive |
| ɕ d | alveolo-palatal vd plosive |
| ħ h | vd pharyngeal nasal |
| ƙ k> | vi velar implosive |
| ɭ l | front-palatal vd lateral approximate |
| ɹ n | front-palatal vd nasal |
| ɸ p> | vi bilabial implosive |
| ɥ q> | vi uvular implosive |
| ʃ S= | vi retroflex postalveolar fricative |
| ɸ t> | vi dental or alveolar implosive |
| ɸ t | front-palatal vi plosive |
| ɸ T | dental click |
| w ⁷ w< | bilabial flap |
| ɸ Z= | vd retroflex postalveolar fricative |
| ɸ += | |

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

³ Glides to and from any level (e.g. “#32” becomes ɿ) and any sequence of any two glides (e.g. “#314” becomes ɿ).

⁴ This requires the use of Charis SIL (<http://scripts.sil.org/CharisSILfont>) or Doulos SIL (<http://scripts.sil.org/DoulosSILfont>).

⁵ This requires the use of Charis SIL (<http://scripts.sil.org/CharisSILfont>) or Doulos SIL (<http://scripts.sil.org/DoulosSILfont>).

⁶ These require the use of Charis SIL (<http://scripts.sil.org/CharisSILfont>) or Doulos SIL (<http://scripts.sil.org/DoulosSILfont>) version 4.1 or greater. They will turn into contours if used in Graphite applications.

⁷ This requires the use of Charis SIL (<http://scripts.sil.org/CharisSILfont>) or Doulos SIL (<http://scripts.sil.org/DoulosSILfont>).

Diacritics & Suprasegmentals

| | | |
|----------------------|--|---|
| k^h | h[^] | Aspirated |
| t^w | w[^] | Labialised |
| t^j | j[^] | Palatalised |
| l^v | ɣ=[^] | Velarised |
| t^ʕ | ʔ<[^] | Pharyngealised |
| ⁿk | n[^] | Pre/post nasalised |
| t^l | l[^] | Lateral release |
| ⁿj | symbol followed by ^ e.g. n=[^] | Other superscripts are available ⁸ |
| k^ˀ | [[| Light aspiration |
| e[̣] | [[[| Rhoticity |
| t^ʼ |]] | Ejective |
| t[̚] |]]] | No audible release |
| b^ˀ |]]]] | Weak aspiration |
| l̩ | \$ | Syllabic |
| ḁ | \$\$ | Non-syllabic |
| a̤ | \$\$\$ | Creaky voiced |
| ạ | symbol followed by \$\$\$\$ e.g. a\$\$\$\$ | Retroflex hooks ⁹ |
| ᵰ | % | Voiceless |
| ᵱ | %% | Voiced |
| ᵳ | %%% | Breathy voiced |
| b̟ | symbol followed by %%% e.g. b%%% | Palatal hooks ¹⁰ |
| ᵰ̚ | @ | Voiceless (diacritics are sometimes placed above a symbol with a descender) |

| | | |
|------------|----------------|---|
| t̪ | { | Dental |
| t̺ | {{ | Apical |
| t̻ | {{{{ | Laminal |
| t̼ | {{{{{ | Linguolabial |
| t̽ | {{{{{}} | Closer variety / Fricative |
| ẽ | ~ | Nasalised |
| ɫ | l~~ | Velarized or pharyngealized ¹¹ |
| ë | * | Centralised |
| ě | ** | Mid centralised |
| ě | *** | Extra short |
| ė | **** | Palatalization/Centralization |
| ṁ | ***** | |
| kp̚ | #& | Double articulation / affricate ¹² |
| ts̚ | @& | Double articulation / affricate ¹³ |
| ɥ | + | Advanced |
| ɨ | — | Retracted |
| e̠ | ++ | Raised |
| e̡ | -- | Lowered |
| e̝ | +++ | +ATR |
| e̞ | --- | -ATR |
| e̜ | ++++ | More rounded |
| e̝̞ | ----- | Less rounded |
| ɔ̟ | ----- | open vowel |
| p̚ | }}} | Fortis |
| p̚̚ | }}}}} | Lenis |
| → | => | Becomes, is realized as |
| σ | S> | Syllable |
| ◌͇ | =< | Combining Grapheme Joiner |

⁸ The following characters can be superscripted: 0123456789 + - = () ʔ ʔ b β c ɛ d ð f φ g γ h ħ ĩ j j̄ k l ḷ l̥ ļ m n ŋ ñ ŋ̃ n̄ p r r̄ r̥ ŗ s s̄ ş t θ v u w ɥ x y z z̄ z̧ z̥ z̧ a e æ a̠ e̠ ə ɛ̠ ɪ̠ D4B ø œ ə i̠ ī̠ o̠ ɔ̠ ə ɣ λ u ɯ u̠ y̠

⁹ Retroflex hooks may be added to: a a̠ d̠ e̠ ə ɛ̠ ɔ̠ f u z (a̠, a̠, d̠, e̠, ə, ɛ̠, ɔ̠, f, u, z)

¹⁰ Palatal hooks may be added to: b d f g k l m n p r s f v x z (b̟, d̟, f̟, g̟, k̟, l̟, m̟, n̟, p̟, r̟, s̟, f̟, v̟, x̟, z̟)

¹¹ Available for **b, d, f, t, m, n, p, r, s, t** and **z**.

¹² Typed between the characters. Thus **k#&p**.

¹³ 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. | ɶ | 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. | ɕ | 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. | ç | c< | 182 | 0255 | Curly-tail C | vl alveolo-palatal fricative |
| 17. | ɕ | | 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. | ɖ | d> | 162 | 0257 | Hooktop D | vd dental or alveolar implosive |
| 22. | ɗ | 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 | d>\$\$\$\$ | 219 | 1D91 | Hooktop right-tail D | vd retroflex implosive (<i>not explicitly IPA approved</i>) |
| 24. | ɗ | | 212 | 02A3 | D-Z ligature | vd alveolar affricate (<i>superceded by 104 + 133</i>) |
| 25. | ɗ͡ʒ | | 214 | 02A4 | D-Ezh ligature | vd postalveolar affricate (<i>superceded by 104 + 135</i>) |
| 26. | ɗ͡ʒ͡ | | 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. | ᵻ̃ | | 327 | 025A | Right-hook schwa | R-coloured mid central vowel (<i>Equivalent to 322 + 419</i>) |
| 33. | ɐ | Ǝ= | 397 | 0258 | Reversed E | close-mid central unrounded vowel |
| 34. | ɛ | e< | 303 | 025B | Epsilon | open-mid front unrounded vowel |
| 35. | ɛ̥ | e | 396 | 029A | Closed epsilon | open-mid central rounded vowel (<i>superceded by 395, 1996</i>) |
| 36. | ɛ̂ | e> | 326 | 025C | Reversed epsilon | open-mid central unrounded vowel |
| 37. | ɛ̃ | O< | 395 | 025E | Closed reversed epsilon | open-mid central rounded vowel |
| 38. | E | Ǝ | 705 | 0045 | Upper-case E | E |
| 39. | f | ƒ | 128 | 0066 | Lowercase F | vl labiodental fricative |
| 40. | ɸ | | 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 | ɡ< | 110 | 0261 | Opentail G | vd velar plosive (<i>equivalent to 210</i>) |
| 44. | ɡ̊ | ɡ> | 166 | 0260 | Hooktop G | vd velar implosive |
| 45. | ɡ | ɡ | 210 | 0067 | Looptail G | vd velar plosive (<i>equivalent to 110</i>) |
| 46. | Ɔ | Ɔ= | 112 | 0262 | Small Capital G | vd uvular plosive |
| 47. | Ɔ̊ | Ɔ> | 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. | ɥ | 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. | ħ̸ | h> | 144 | 0127 | Crossed H | vl pharyngeal fricative |
| 56. | ɦ | h< | 147 | 0266 | Hooktop H | vd glottal fricative |
| 57. | ɦ̥ | H> | 175 | 0267 | Hooked Heng | simultaneous vl postalveolar and velar fricative |
| 58. | ɥ | Y< 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. | i | ı | 301 | 0069 | Lowercase I | close front unrounded vowel |
| 62. | ı | | 394 | 0131 | Undotted I | <i>Not IPA usage</i> |
| 63. | ɨ | I= | 317 | 0268 | Barred I | close central unrounded vowel |
| 64. | ɪ | ı | 399 | 0269 | Iota | near-close near-front unrounded vowel <i>(superseded by 319, 1989)</i> |
| 65. | ɪ | ı= | 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. | ȷ | j^ | 421 | 02B2 | Superscript J | palatalized |
| 69. | ɟ | j< | 139 | 029D | Curly-tail J | vd palatal fricative |
| 70. | ɟ̥ | | 298 | 01F0 | J wedge | vd postalveolar affricate <i>(not IPA usage)</i> |
| 71. | ɟ̥ | j= | 108 | 025F | Barred Dotless J | vd palatal plosive |
| 72. | ɟ̥ | 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 | vi velar plosive |
| 76. | ƙ | k> | 165 | 0199 | Hooktop K | vi velar implosive (<i>withdrawn, 1993</i>) |
| 77. | ꞑ | | 291 | 029E | Turned K | <i>Withdrawn, 1979</i> |
| 78. | K | K | 711 | 004B | Upper-case K | K |
| 79. | l | l | 155 | 006C | Lowercase L | vd dental or alveolar lateral approximant |
| 80. | ˀ | l^ | 426 | 02E1 | Superscript L | lateral release |
| 81. | ɫ | l~ | 209 | 026B | L with tilde | velarized vd dental or alveolar lateral approximant |
| 82. | ɮ | l= | 148 | 026C | Belted L | vi dental or alveolar lateral fricative |
| 83. | ɭ | l< | 156 | 026D | Right-tail L | vd retroflex lateral approximate |
| 84. | Ƙ | L= | 158 | 029F | Small Capital L | vd velar lateral approximate |
| 85. | ɮ͡ | l> | 149 | 026E | L-Ezh ligature | vd dental or alveolar lateral fricative |
| 86. | ɬ | | 603 | 02AA | L-S ligature | Lateralized [s] |
| 87. | ɮ͡ | | 604 | 02AB | L-Z ligature | Lateralized [z] |
| 88. | λ | | 295 | 03BB | Lambda | vi dental or alveolar lateral fricative (<i>Not IPA usage</i>) |
| 89. | λ͡ | | 294 | 019B | Barred lambda | vi dental or alveolar lateral affricate (<i>Not IPA usage</i>) |
| 90. | L | L | 625 (=712) | 004C | Upper-case L | Larynx |
| 91. | ℒ | L | 712 (use 625) | 004C | Upper-case L | L (Larynx) |
| 92. | m | m | 114 | 006D | Lowercase M | vd bilabial nasal |
| 93. | ɱ | m> | 115 | 0271 | Left-tail M (at right) | vd labiodental nasal |
| 94. | ɯ | u= | 316 | 026F | Turned M | close back unrounded vowel |
| 95. | ɯ͡ | w> | 154 | 0270 | Turned M, Right Leg | vd velar approximant |
| 96. | M | M | 713 | 004D | Upper-case M | M |
| 97. | n | n | 116 | 006E | Lowercase N | vd 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 | ɴ= | 120 | 0274 | Small Capital N | vd uvular nasal |
| 104. | ɴ | ɴ | 714 | 004E | Upper-case N | ɴ |
| 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. | Ɔ | | 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. | ⓪ | ⓪ | 715 | 004F | Upper-case O | ⓪ |
| 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. | Ⓟ | Ⓟ | 716 | 0050 | Upper-case 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. | Ⓠ | Ⓠ | 717 | 0051 | Upper-case 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. | ʀ̥ | R> | 143 | 0281 | Inverted Small Capital R | vd uvular fricative |
| 132. | ʀ̥̥ | R>^ | 676 | 02B6 | Superscript inverted small capital R | Uvularized |
| 133. | ʃ | ʃ | 132 | 0073 | Lowercase S | vi alveolar fricative |
| 134. | ʃ̥ | ʃ^ | 207 | 02E2 | Superscript S | <i>Withdrawn, 1989</i> |
| 135. | ʃ̥̥ | | 297 | 0161 | S wedge | vi postalveolar fricative (<i>not IPA usage</i>) |
| 136. | ʃ̥̥̥ | ʃ< | 136 | 0282 | Right-Tail S (at left) | vi retroflex fricative |
| 137. | S | S | 719 | 0053 | Upper-case S | S |
| 138. | ʃ̥̥̥̥ | ʃ= | 134 | 0283 | Esh | vi postalveolar fricative |
| 139. | ʃ̥̥̥̥̥ | | 204 | 0286 | Curly-tail esh | <i>Withdrawn, 1989</i> |
| 140. | t | t | 103 | 0074 | Lowercase T | vi dental or alveolar plosive |
| 141. | t̥ | t> | 161 | 01AD | Hooktop T | vi dental or alveolar implosive (<i>withdrawn, 1993</i>) |
| 142. | t̥̥ | | 208 | 01AB | Left-hook T | palatalized vi dental or alveolar plosive (<i>withdrawn, 1989</i>) |
| 143. | t̥̥̥ | t< | 105 | 0288 | Right-tail T | vi retroflex plosive |
| 144. | ts̥ | | 211 | 02A6 | T-S ligature | vi dental or alveolar affricate (<i>superseded by 103 + 132</i>) |
| 145. | tʃ̥ | | 213 | 02A7 | T-Esh ligature | vi postalveolar affricate (<i>superseded by 103 + 134</i>) |
| 146. | tʃ̥̥̥ | | 215 | 02A8 | T-Curly-tail-C ligature | vi alveolo-palatal affricate (<i>superseded by 103 + 182</i>) |
| 147. | ɾ | T | 201 | 0287 | Turned T | dental click (<i>superseded by 177, 1989</i>) |
| 148. | T | T | 720 | 0054 | Upper-case T | T |
| 149. | θ | t= | 130 | 03B8 | Theta | vi dental fricative |
| 150. | θ̥ | t=^ | 217 | 1DBF | Superscript theta | vi dental fricative release |

| Alph sorting key | Glyph | Key- strokes | IPA No. | USV | Symbol Name | IPA Phonetic Description |
|------------------------|-------|-----------------|---------------------|--|------------------------|--|
| 151. | Ϙ | | 628 | 0398 | Upper-case Greek Theta | Protruded-tongue voice |
| 152. | u | u | 308 | 0075 | Lowercase U | close back rounded vowel |
| 153. | ϡ | U= | 318 | 0289 | Barred U | close central rounded vowel |
| 154. | ϣ | u< | 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. | Ϝ | v< | 184 | F25F (expected to be in Unicode 5.1) | | labiodental flap |
| 158. | ϝ | v= | 150 | 028B | Cursive V | vd labiodental approximant |
| 159. | Ϟ | v=^ | 673 | 1DB9 | Superscript cursive V | Labiodentalized |
| 160. | ϟ | u> | 314 | 028C | Turned V | open-mid back unrounded vowel |
| 161. | Ϡ | V | 621 (=722) | 0056 | Upper-case V | Voice |
| 162. | ϡ | V | 722 (use 621) | 0056 | Upper-case V | V (Voice) |
| 163. | w | w | 170 | 0077 | Lowercase W | vd labial-velar approximant |
| 164. | Ϝ | w^ | 420 | 02B7 | Superscript W | labialized |
| 165. | Ϟ | w= | 169 | 028D | Turned W | vl labial-velar fricative |
| 166. | W | W | 623 (=723) | 0057 | Upper-case W | Whisper |
| 167. | Ϡ | W | 723 (use 623) | 0057 | Upper-case W | W (Whisper) |
| 168. | x | x | 140 | 0078 | Lowercase X | vl velar fricative |
| 169. | Ϙ | x^ | 292 | 02E3 | Superscript X | vl velar fricative release |
| 170. | Ϡ | 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. | Ϛ | y^ | 496 | 02B8 | Superscript Y | high-front rounding / palatalized (<i>not IPA usage</i>) |
| 174. | ϛ | L< | 157 | 028E | Turned Y | vd palatal lateral approximant |

| Alph sorting key | Glyph | Key-strokes | IPA No. | USV | Symbol Name | IPA Phonetic Description |
|------------------|-------|-------------|--------------------|------|------------------------------|---|
| 175. | ʏ | ʏ= | 320 | 028F | Small Capital Y | near-close near-front rounded vowel |
| 176. | Ÿ | Ÿ | 725 | 0059 | Upper-case Y | Y |
| 177. | z | z | 133 | 007A | Lowercase Z | vd alveolar fricative |
| 178. | ʐ | | 296 | 017E | Z wedge | vd postalveolar fricative (<i>not IPA usage</i>) |
| 179. | ɸ | z> | 183 | 0291 | Curly-tail Z | vd alveolo-palatal fricative |
| 180. | ɹ | z< | 137 | 0290 | Right-tail Z | vd retroflex fricative |
| 181. | ʒ | z= | 135 | 0292 | Ezh; Tailed Z | vd postalveolar fricative |
| 182. | ɻ | | 205 | 0293 | Curly-tail ezh | <i>Withdrawn, 1989</i> |
| 183. | Z | Z | 726 | 005A | Upper-case Z | Z |
| 184. | ʔ | ʔ= | 113 | 0294 | Glottal Stop | glottal plosive |
| 185. | ʕ | ʔ< | 145 | 0295 | Reversed Glottal Stop | vd pharyngeal fricative or approximant |
| 186. | ʔ̤ | Q= | 172 | 02A1 | Barred Glottal Stop | epiglottal plosive |
| 187. | ʕ̤ | Q< | 174 | 02A2 | Barred Reversed Glottal Stop | vd epiglottal fricative or approximant |
| 188. | ǀ | !< | 177 | 01C0 | Pipe | dental click |
| 189. | ǃ | ! | 178 | 01C3 | Exclamation Point | (post)alveolar click |
| 190. | ǂ | != | 179 | 01C2 | Double-barred Pipe | palatoalveolar click |
| 191. | ǁ | !> | 180 | 01C1 | Double Vertical Line | alveolar lateral click |
| 192. | ǃ̤ | | 203 | 0296 | Inverted glottal stop | alveolar lateral click (<i>superseded by 180, 1989</i>) |
| 193. | ǂ̤ | | 290 | 01BB | Barred two | <i>Withdrawn, 1976</i> |
| 194. | ˈ |]] | 401 | 02BC | Apostrophe | ejective |
| 195. | ◌̥ | % | 402a | 0325 | Under-ring | voiceless |
| 196. | ◌̥̇ | @ | 402b | 030A | Over-ring | voiceless (use if character has descender) |
| 197. | ◌̥̚ | %% | 403 (=663, 664) | 032C | Subscript Wedge | voiced |
| 198. | ◌̥̇̚ | %%% | 405 | 0324 | Subscript Umlaut | breathy voiced |
| 199. | ◌̥̃̚ | \$\$\$ | 406 | 0330 | Subscript Tilde | creaky voiced |
| 200. | ◌̥̣̚ | { { { { | 407 | 033C | Subscript Seagull | linguolabial |

| Alph sorting key | Glyph | Key- strokes | IPA No. | USV | Symbol Name | IPA Phonetic Description |
|------------------------|-------|-----------------|---------|------|-----------------------------------|--|
| 201. | ◌̚ | { | 408 | 032A | Subscript Bridge | dental |
| 202. | ◌̚̚ | {{ | 409 | 033A | Inverted Subscript Bridge | apical |
| 203. | ◌̚̚̚ | {{{ | 410 | 033B | Subscript Square | laminal |
| 204. | ◌̣̚ | ++++ | 411 | 0339 | Subscript Right Half-ring | more rounded |
| 205. | ◌̤̚ | _____ | 412 | 031C | Subscript Left Half-ring | less rounded |
| 206. | ◌̥̚ | + | 413 | 031F | Subscript Plus | advanced |
| 207. | ◌̦̚ | — | 414 | 0320 | Under-bar | retracted |
| 208. | ◌̧̚ | * | 415 | 0308 | Umlaut | centralized |
| 209. | ◌̨̚ | ** | 416 | 033D | Over-cross | mid-centralized |
| 210. | ◌̩̚ | +++ | 417 | 0318 | Advancing Sign | advanced tongue root |
| 211. | ◌̪̚ | _____ | 418 | 0319 | Retracting Sign | retracted tongue root |
| 212. | ◌̫̚ | [[[| 419 | 02DE | Right Hook | rhoticity |
| 213. | ◌̬̚ | ? < ^ | 423 | 02E4 | Superscript reversed glottal stop | pharyngealized |
| 214. | ◌̭̚ | ~ | 424 | 0303 | Superscript Tilde | nasalized |
| 215. | ◌̮̚ |]]] | 427 | 031A | Corner | no audible release |
| 216. | ◌̯̚ | | 428 | 0334 | Superimposed tilde | Velarized or pharyngealized (use precomposed characters) |
| 217. | ◌̰̚ | ++ | 429 | 031D | Raising Sign | raised |
| 218. | ◌̱̚ | _____ | 430 | 031E | Lowering Sign | lowered |
| 219. | ◌̲̚ | \$ | 431 | 0329 | Syllabicity Mark | syllabic |
| 220. | ◌̳̚ | \$\$ | 432 | 032F | Subscript Arch | non-syllabic |
| 221. | ◌̴̚ | #& | 433 | 0361 | Top Tie Bar | affricate or double articulation |
| 222. | ◌̵̚ | @& | 433 | 035C | Bottom Tie Bar | affricate or double articulation |
| 223. | ◌̶̚ | | 489 | 0322 | Subscript right hook | Rhoticity (<i>Superseded by 419, 1989</i>) |
| 224. | ◌̷̚ | | 490 | ? | Open corner | Release / burst (<i>not IPA usage</i>) |
| 225. | ◌̸̚ | , | 491 | 002C | Comma | pause (<i>not IPA usage</i>) |
| 226. | ◌̹̚ |]]]] | 492 | 02BB | Reversed apostrophe | weak aspiration (<i>withdrawn, 1979</i>) |

| Alph sorting key | Glyph | Key- strokes | IPA No. | USV | Symbol Name | IPA Phonetic Description |
|------------------------|-------|-----------------|------------------------------|--|---------------------------------|---|
| 227. | ◌̆ | * * * * * | 493 | 0307 | Over-dot | palatalization/centralization <i>(withdrawn, 1979)</i> |
| 228. | ◌̇ | | 494 | 02D7 | Minus sign | retracted variety (backed) <i>(use 414 or 418, 1989)</i> |
| 229. | ◌̈ | | 495 | 02D6 | Plus sign | advanced variety (fronted) <i>(use 413 or 417, 1989)</i> |
| 230. | ◌̉ | { { { { { | 497 | 0323 | Under-dot | closer variety / fricative <i>(use 429, 1989)</i> |
| 231. | ◌̊ | | 498 | 0321 | Subscript left hook | palatalized <i>(superseded by 421, 1989)</i> |
| 232. | ◌̋ | | 499 | 032B | Subscript W | labialized <i>(superseded by 420, 1989)</i> |
| 233. | ◌́ | } | 501 | 02C8 | Vertical Stroke (Superior) | primary stress |
| 234. | ◌̀ | }} | 502 | 02CC | Vertical Stroke (Inferior) | secondary stress |
| 235. | ◌ː | : | 503 | 02D0 | Length Mark | length mark |
| 236. | ◌ˑ | :: | 504 | 02D1 | Half-length Mark | half-length |
| 237. | ◌̣ | * * * | 505 | 0306 | Breve | extra-short |
| 238. | ◌̤ | . | 506 (631, 632, 633) | 002E | Period | syllable break |
| 239. | ◌̥ | . < | 507 | 007C | Vertical Line | minor (foot) group |
| 240. | ◌̦ | . = | 508 | 2016 | Double vertical line (thick) | major (intonation) group |
| 241. | ◌̧ | # = | 509 | 203F | Bottom Tie Bar | linking (absence of a break) |
| 242. | ↗ | # > > | 510 | 2197 | Upward Diagonal Arrow | global rise |
| 243. | ↘ | # < < | 511 | 2198 | Downward Diagonal Arrow | global fall |
| 244. | ◌̊̊ | @4 | 512 | 030B | Double Acute Accent (over) | extra high level |
| 245. | ◌̊ | @3 | 513 | 0301 | Acute Accent (over) | high level |
| 246. | ◌̄ | @2 | 514 | 0304 | Macron | mid level |
| 247. | ◌̀̀ | @1 | 515 | 0300 | Grave Accent (over) | low level |
| 248. | ◌̀̀̀ | @0 | 516 | 030F | Double Grave Accent (over) | extra low level |
| 249. | ↓ | # < | 517 | F19D (expected to be in Unicode 5.1) | Down Arrow | downstep |
| 250. | ↑ | # > | 518 | F19C (expected to be in Unicode | Up Arrow | upstep |

| Alph sorting key | Glyph | Key- strokes | IPA No. | USV | Symbol Name | IPA Phonetic Description |
|------------------------|-------|-----------------|---------------------|----------------------|---------------------------------------|---|
| | | | | 5.1) | | |
| 251. | ǀ | #4 | 519 | 02E5 | Extra-high Tone Bar | extra high level |
| 252. | ǁ | #3 | 520 | 02E6 | High Tone Bar | high level |
| 253. | ǂ | #2 | 521 | 02E7 | Mid Tone Bar | mid level |
| 254. | ǃ | #1 | 522 | 02E8 | Low Tone Bar | low level |
| 255. | Ǆ | #0 | 523 | 02E9 | Extra-low Tone Bar | extra low level |
| 256. | ◌̚ | @13 | 524 | 030C | Wedge | rising contour |
| 257. | ◌̂ | @31 | 525 | 0302 | Circumflex | falling contour |
| 258. | ◌̑ | @23 | 526 | 1DC4 | Macron plus acute accent | high rising contour |
| 259. | ◌̐ | @12 | 527 | 1DC5 | Grave accent plus macron | low rising contour |
| 260. | ◌̑̐ | @131 | 528 | 1DC8 | Grave plus acute plus grave accent | rising-falling contour |
| 261. | ǀ | #04 | 529 | 02E9 02E5 | Rising tone letter | rising contour |
| 262. | ǁ | #40 | 530 | 02E5 02E9 | Falling tone letter | falling contour |
| 263. | ǂ | #24 | 531 | 02E7 02E5 | High-rising tone letter | high rising contour |
| 264. | ǃ | #12 | 532 | 02E9 02E7 | Low-rising tone letter | low rising contour |
| 265. | Ǆ | #141 | 533 | 02E8 02E5 02E8 | Rising-falling tone letter | rising-falling contour |
| 266. | ◌̆ | | 595 | 0311 | Superscript arch | long falling tone / advanced / palatal (<i>not IPA usage</i>) |
| 267. | ◌̇ | | 596 | 02C7 | Wedge; háček | falling-rising tone (<i>usage redefined, 1989. See 524</i>) |
| 268. | ◌̂ | | 597 | 02C6 | Circumflex | rising-falling tone (<i>usage redefined, 1989. See 525</i>) |
| 269. | ◌̑̐ | | 598 | 0316 / 02CE | Subscript grave accent | low falling tone (<i>superseded (1989)</i>) |
| 270. | ◌̑̐̑ | | 599 | 0317 / 02CF | Subscript acute accent | low rising tone (<i>superseded, 1989</i>) |
| 271. | ◌̚̚ | | 601 | 02AD | Double bridge | Bidental percussive |
| 272. | ◌̚̚̚ | | 611 | 274D | Balloon | Unidentified segment(s) |
| 273. | * | | 612 | 002A | Asterisk | Placeholder symbol |
| 274. | (.) | | 631 (use 506) | 002E | Bracketed single period | Short pause |
| 275. | (..) | | 632 (use | 002E 002E | Bracketed double period | Medium-length pause |

| Alph sorting key | Glyph | Key- strokes | IPA No. | USV | Symbol Name | IPA Phonetic Description |
|------------------------|-------|-----------------|---------------------|----------------------|--------------------------------------|--------------------------|
| | | | 506) | | | |
| 276. | (...) | | 633 (use 506) | 002E 002E 002E | Bracketed triple period | Long pause |
| 277. | | | 634 | 1D191 | Forte | Loud speech |
| 278. | | | 635 | | Fortissimo | Louder speech |
| 279. | | | 636 | | Piano | Quiet speech |
| 280. | | | 637 | 1D18F | Pianissimo | Quieter speech |
| 281. | | | 638 | | Allegro | Fast speech |
| 282. | | | 639 | | Lento | Slow speech |
| 283. | 1 | 1 | 640 | 0031 | Numeral one | Slight degree |
| 284. | 2 | 2 | 641 | 0032 | Numeral two | Moderate degree |
| 285. | 3 | 3 | 642 | 0033 | Numeral three | Extreme degree |
| 286. | ◌̆ | | 651 | 0346 | Superscript bridge | Dentolabial |
| 287. | ◌̑ | | 652 | 034D | Subscript double arrow | Labial spreading |
| 288. | ◌̑̆ | | 653 | 032A 0346 | Superscript+subscript bridge | Bidental articulation |
| 289. | ◌̑̃ | | 654 | 034A | Superscript slashed tilde | Denasal |
| 290. | ◌̣̑ | | 655 | 034B | Superscript dotted tilde | Nasal escape |
| 291. | ◌̥̑ | | 656 | 034C | Superscript double tilde | Velopharyngeal friction |
| 292. | ◌̨̑ | | 657 | 0348 | Subscript double syllabicity mark | Stronger articulation |
| 293. | ◌̩̑ | | 658 | 0349 | Subscript corner | Weaker articulation |
| 294. | \ | | 659 | 005C | Backslash | Reiterated articulation |
| 295. | ◌̑̎ | | 660 | 034E | Subscript upward arrow- head | Whistled articulation |
| 296. | ↓ | | 661 | 2193 | Down full arrow | Ingressive air flow |
| 297. | ↑ | | 662 | 2191 | Up full arrow | Egressive air flow |
| 298. | ◌̰̑ | | 663 (use 403) | 02EC | Left-sited subscript wedge | Pre-voicing |
| 299. | ◌̱̑ | | 664 (=403) | 02EC | Right-sited subscript wedge | Post-voicing |
| 300. | | | 665 | | Bracketed subscript wedge | Partial voicing |

| Alph sorting key | Glyph | Key-strokes | IPA No. | USV | Symbol Name | IPA Phonetic Description |
|------------------|-------|-------------|---------------|--------------|--------------------------------------|-------------------------------------|
| 301. | | | 666 | | Left-bracketed subscript wedge | Initial partial voicing |
| 302. | | | 667 | | Right-bracketed subscript wedge | Final partial voicing |
| 303. | | | 668 | | Bracketed under-ring | Partial devoicing |
| 304. | | | 669 | | Left-bracketed under-ring | Initial partial devoicing |
| 305. | | | 670 | | Right-bracketed under-ring | Final partial devoicing |
| 306. | !! | | 672 | 01C3 01C3 | Right-sited 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-sited 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-sited 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 |