

## IPA Extensions

Range: 0250–02AF

### The Unicode Standard, Version 15.1

This file contains an excerpt from the character code tables and list of character names for *The Unicode Standard, Version 15.1*

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See <https://www.unicode.org/charts/> for access to a complete list of the latest character code charts. See <https://www.unicode.org/charts/PDF/Unicode-15.1/> for charts showing only the characters added in Unicode 15.1. See <https://www.unicode.org/Public/15.1.0/charts/> for a complete archived file of character code charts for Unicode 15.1. See <https://www.unicode.org/charts/About.html#Conventions> for conventions used in these code charts, and other general information.

### Disclaimer

These charts are provided as the online reference to the character contents of the Unicode Standard, Version 15.1 but do not provide all the information needed to fully support individual scripts using the Unicode Standard. For a complete understanding of the use of the characters contained in this file, please consult the appropriate sections of The Unicode Standard, Version 15.1, online at <https://www.unicode.org/versions/Unicode15.1.0/>, as well as Unicode Standard Annexes #9, #11, #14, #15, #24, #29, #31, #34, #38, #41, #42, #44, #45, and #50, the other Unicode Technical Reports and Standards, and the Unicode Character Database, which are available online.

See <https://www.unicode.org/ucd/> and <http://www.unicode.org/reports/>

A thorough understanding of the information contained in these additional sources is required for a successful implementation.

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See <https://www.unicode.org/pending/pending.html> and <http://www.unicode.org/alloc/Pipeline.html>.

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	025	026	027	028	029	02A
0	ɸ 0250	ɠ 0260	ɥ 0270	ʀ 0280	ʐ 0290	ɕ 02A0
1	ɑ 0251	ɔ̃ 0261	ɱ 0271	ʁ 0281	ʑ 0291	ʑ̥ 02A1
2	ɒ 0252	ɔ̄ 0262	ɲ 0272	ʂ 0282	ʑ̥ 0292	ɕ̥ 02A2
3	ɓ 0253	ɣ 0263	ɳ 0273	ʃ 0283	ʑ̥ 0293	ɕ̥ 02A3
4	ɔ̥ 0254	ɣ̥ 0264	ɴ 0274	ʃ̥ 0284	ʑ̥ 0294	ɕ̥ 02A4
5	ɛ̥ 0255	ɥ̥ 0265	ɵ 0275	ɺ 0285	ɕ̥ 0295	ɕ̥ 02A5
6	ɖ 0256	ɦ 0266	æ 0276	ɹ 0286	ɺ̥ 0296	ɕ̥ 02A6
7	ɗ 0257	ɦ̥ 0267	ω 0277	ɻ 0287	ɕ̥ 0297	ɕ̥ 02A7
8	ə̥ 0258	ɨ̥ 0268	ϕ 0278	ɿ 0288	⊙ 0298	ɕ̥ 02A8
9	ə̥ 0259	ɺ̥ 0269	ɹ̥ 0279	ɸ̥ 0289	ɕ̥ 0299	ɕ̥ 02A9
A	ɶ 025A	ɹ̥ 026A	ɹ̥ 027A	ʊ̥ 028A	ɕ̥ 029A	ɕ̥ 02AA
B	ɛ̥ 025B	ɿ̥ 026B	ɹ̥ 027B	ʊ̥ 028B	ɕ̥ 029B	ɕ̥ 02AB
C	ɶ̥ 025C	ɿ̥ 026C	ɹ̥ 027C	ʌ̥ 028C	ɕ̥ 029C	ɕ̥ 02AC
D	ɶ̥ 025D	ɺ̥ 026D	ɹ̥ 027D	ʌ̥ 028D	ɶ̥ 029D	ɕ̥ 02AD
E	ɶ̥ 025E	ɶ̥ 026E	ɹ̥ 027E	ʌ̥ 028E	ɶ̥ 029E	ɕ̥ 02AE
F	ɶ̥ 025F	ɶ̥ 026F	ɹ̥ 027F	ʌ̥ 028F	ɶ̥ 029F	ɕ̥ 02AF

**IPA extensions**

*IPA includes basic Latin letters and a number of Latin or Greek letters from other blocks.*

- 00E6 æ latin small letter ae
- 00E7 ç latin small letter c with cedilla
- 00F0 ð latin small letter eth
- 00F8 ø latin small letter o with stroke
- 0127 ħ latin small letter h with stroke
- 014B ĩ latin small letter eng
- 0153 œ latin small ligature oe
- 03B2 β greek small letter beta
- 03B8 θ greek small letter theta
- 03BB λ greek small letter lamda
- 03C7 χ greek small letter chi

*Many of the IPA characters in this block are also used in significant orthographies, such as those for African languages.*

- |      |    |   |      |    |  |
|------|----|---|------|----|--|
| 0250 | ɾ  | <b>LATIN SMALL LETTER TURNED A</b><br>• low central unrounded vowel<br>• uppercase is 2C6F <b>Ɔ</b>   | 0259 | ə  | <b>LATIN SMALL LETTER SCHWA</b><br>• mid-central unrounded vowel<br>• uppercase is 018F <b>Ǝ</b><br>• variant uppercase form 018E <b>Ǝ</b> is associated with 01DD ə<br>→ 01DD ə latin small letter turned e<br>→ 04D9 ə cyrillic small letter schwa |
| 0251 | ɑ  | <b>LATIN SMALL LETTER ALPHA</b><br>= latin small letter script a (1.0)<br>• low back unrounded vowel<br>• the representative glyph appears like an allograph of Latin “a”, but sometimes the character is rendered more like a Greek “α”<br>• uppercase is 2C6D <b>Ɑ</b><br>→ 03B1 α greek small letter alpha | 025A | æ̃ | <b>LATIN SMALL LETTER SCHWA WITH HOOK</b><br>• rhotacized schwa  |
| 0252 | ɔ̣ | <b>LATIN SMALL LETTER TURNED ALPHA</b><br>• low back rounded vowel<br>• uppercase is 2C70 <b>Ɔ</b><br>→ AB64 Ɑ latin small letter inverted alpha  | 025B | ɛ  | <b>LATIN SMALL LETTER OPEN E</b><br>= epsilon<br>• lower-mid front unrounded vowel<br>• uppercase is 0190 <b>Ǝ</b><br>→ 03B5 ε greek small letter epsilon<br>→ 0511 ε cyrillic small letter reversed ze  |
| 0253 | ɸ  | <b>LATIN SMALL LETTER B WITH HOOK</b><br>• implosive bilabial stop<br>• uppercase is 0181 <b>Ɓ</b><br>→ 0431 б cyrillic small letter be   | 025C | ɜ̣ | <b>LATIN SMALL LETTER REVERSED OPEN E</b><br>= reversed epsilon<br>• lower-mid central unrounded vowel<br>• uppercase is A7AB <b>Ɯ</b><br>→ 0437 з cyrillic small letter ze<br>→ 1D08 з latin small letter turned open e                             |
| 0254 | ɔ̥ | <b>LATIN SMALL LETTER OPEN O</b><br>• typographically a turned c<br>• lower-mid back rounded vowel<br>• in older Danish usage “ɔ̥” stands for “that is”<br>• uppercase is 0186 <b>Ɔ</b><br>→ 1D10 ɔ̥ latin letter small capital open o<br>→ 2184 ɔ̥ latin small letter reversed c                             | 025D | ɜ̃ | <b>LATIN SMALL LETTER REVERSED OPEN E WITH HOOK</b><br>• rhotacized lower-mid central vowel  |
| 0255 | ç  | <b>LATIN SMALL LETTER C WITH CURL</b><br>• voiceless alveolo-palatal laminal fricative<br>• used in transcription of Mandarin Chinese<br>• sound spelled with 015B ś in Polish  | 025E | ɞ  | <b>LATIN SMALL LETTER CLOSED REVERSED OPEN E</b><br>= closed reversed epsilon<br>• lower-mid central rounded vowel<br>→ 029A ɞ latin small letter closed open e  |
| 0256 | ɖ  | <b>LATIN SMALL LETTER D WITH TAIL</b><br>= d retroflex hook<br>• voiced retroflex stop<br>• uppercase is 0189 <b>Ɖ</b>  | 025F | ɸ  | <b>LATIN SMALL LETTER DOTLESS J WITH STROKE</b><br>• voiced palatal stop<br>• typographically a turned f, but better thought of as a form of j<br>• “gy” in Hungarian orthography<br>• also archaic phonetic for palatoalveolar affricate 02A4 ɸ̣    |
| 0257 | ɖ̥ | <b>LATIN SMALL LETTER D WITH HOOK</b><br>• implosive dental or alveolar stop<br>• Ewe, Pan-Nigerian alphabet<br>• uppercase is 018A <b>Ɗ</b>  | 0260 | ɟ  | <b>LATIN SMALL LETTER G WITH HOOK</b><br>• implosive velar stop<br>• uppercase is 0193 <b>Ɠ</b>  |
| 0258 | ɘ̣ | <b>LATIN SMALL LETTER REVERSED E</b><br>• upper-mid central unrounded vowel   | 0261 | ɡ  | <b>LATIN SMALL LETTER SCRIPT G</b><br>• voiced velar stop<br>• uppercase is A7AC <b>Ɠ</b><br>→ 0067 ɡ latin small letter g<br>→ 210A ɡ script small g  |
|      |    |   | 0262 | ɠ  | <b>LATIN LETTER SMALL CAPITAL G</b><br>• voiced uvular stop  |
|      |    |   | 0263 | ɣ  | <b>LATIN SMALL LETTER GAMMA</b><br>• voiced velar fricative<br>• uppercase is 0194 <b>Ɣ</b><br>→ 03B3 γ greek small letter gamma   |
|      |    |   | 0264 | ɥ  | <b>LATIN SMALL LETTER RAMS HORN</b><br>= latin small letter baby gamma (1.0)<br>• upper-mid back unrounded vowel   |
|      |    |   | 0265 | ɥ̥ | <b>LATIN SMALL LETTER TURNED H</b><br>• voiced rounded palatal approximant<br>• uppercase is A78D <b>ƥ</b>   |
|      |    |   | 0266 | ɦ  | <b>LATIN SMALL LETTER H WITH HOOK</b><br>• breathy-voiced glottal fricative<br>• uppercase is A7AA <b>Ƨ</b><br>• uppercase in Nawdm is 0124 <b>Ĥ</b><br>→ 02B1 ɦ modifier letter small h with hook   |

0267	ɸ	<b>LATIN SMALL LETTER HENG WITH HOOK</b> • voiceless coarticulated velar and palatoalveolar fricative • “sj” in some Swedish dialects → A727 <b>ɸ</b> latin small letter heng	0273	ɳ	<b>LATIN SMALL LETTER N WITH RETROFLEX HOOK</b> • voiced retroflex nasal
0268	ĩ	<b>LATIN SMALL LETTER I WITH STROKE</b> = barred i, i bar • high central unrounded vowel • uppercase is 0197 <b>Ī</b> • ISO 6438 gives lowercase of 0197 <b>Ī</b> as 026A <b>ɪ</b> , not 0268 <b>ĩ</b> → 1D7B <b>ɪ̄</b> latin small capital letter i with stroke	0274	ɴ	<b>LATIN LETTER SMALL CAPITAL N</b> • voiced uvular nasal
0269	ɪ	<b>LATIN SMALL LETTER IOTA</b> • semi-high front unrounded vowel • obsoleted by IPA in 1989 • preferred use is 026A <b>ɪ</b> latin letter small capital i • uppercase is 0196 <b>Ī</b> → 0131 <b>ɪ</b> latin small letter dotless i → 03B9 <b>ι</b> greek small letter iota → A647 <b>ι</b> cyrillic small letter iota → 1D6A4 <b>ι</b> mathematical italic small dotless i	0275	ɵ	<b>LATIN SMALL LETTER BARRED O</b> = o bar • rounded mid-central vowel, i.e. rounded schwa • uppercase is 019F <b>Θ</b> → 03B8 <b>θ</b> greek small letter theta → 0473 <b>ɵ</b> cyrillic small letter fita → 04E9 <b>ɵ</b> cyrillic small letter barred o
026A	ɪ	<b>LATIN LETTER SMALL CAPITAL I</b> • semi-high front unrounded vowel • preferred IPA alternate for 0269 <b>ɪ</b> • uppercase is A7AE <b>Ī</b> • ISO 6438 gives this as lowercase of 0197 <b>Ī</b> instead of 0268 <b>ĩ</b> • glyph should have top and bottom serifs even in sans serif IPA font designs, to avoid confusion with lowercase <b>l</b> → 0131 <b>ɪ</b> latin small letter dotless i	0276	œ	<b>LATIN LETTER SMALL CAPITAL OE</b> • low front rounded vowel → 0153 <b>œ</b> latin small ligature oe
026B	ɬ	<b>LATIN SMALL LETTER L WITH MIDDLE TILDE</b> • velarized voiced alveolar lateral approximant • uppercase is 2C62 <b>Ł</b> → 0142 <b>ɬ</b> latin small letter l with stroke → AB37 <b>ɬ</b> latin small letter l with inverted lazy s → AB38 <b>ɬ̂</b> latin small letter l with double middle tilde	0277	ω	<b>LATIN SMALL LETTER CLOSED OMEGA</b> • near-close near-back rounded vowel • obsoleted by IPA in 1989 • preferred use is 028A <b>υ</b> latin small letter upsilon → A7B7 <b>ω</b> latin small letter omega → AB65 <b>Ω</b> greek letter small capital omega
026C	ɮ	<b>LATIN SMALL LETTER L WITH BELT</b> • voiceless alveolar lateral fricative • uppercase is A7AD <b>Ł̣</b> → 019A <b>ɮ</b> latin small letter l with bar	0278	ϕ	<b>LATIN SMALL LETTER PHI</b> • voiceless bilabial fricative • this is a non-casing letter → 03C6 <b>ϕ</b> greek small letter phi → 03D5 <b>ϕ</b> greek phi symbol → 2C77 <b>ϕ</b> latin small letter tailless phi
026D	ɭ	<b>LATIN SMALL LETTER L WITH RETROFLEX HOOK</b> • voiced retroflex lateral → A78E <b>ɭ</b> latin small letter l with retroflex hook and belt	0279	ɹ	<b>LATIN SMALL LETTER TURNED R</b> • voiced alveolar approximant → 02B4 <b>ɹ</b> modifier letter small turned r
026E	ɮ̥	<b>LATIN SMALL LETTER LEZH</b> • voiced lateral fricative • “dhl” in Zulu orthography	027A	ɹ̄	<b>LATIN SMALL LETTER TURNED R WITH LONG LEG</b> • voiced lateral flap
026F	ɯ	<b>LATIN SMALL LETTER TURNED M</b> • high back unrounded vowel • uppercase is 019C <b>Ū</b> → A7FA <b>ɯ</b> latin letter small capital turned m	027B	ɹ̥	<b>LATIN SMALL LETTER TURNED R WITH HOOK</b> • voiced retroflex approximant → 02B5 <b>ɹ̥</b> modifier letter small turned r with hook
0270	ɯ̄	<b>LATIN SMALL LETTER TURNED M WITH LONG LEG</b> • voiced velar approximant	027C	ɹ̄	<b>LATIN SMALL LETTER R WITH LONG LEG</b> • voiced strident apico-alveolar trill • obsoleted by IPA in 1989 • this sound is spelled with 0159 <b>ř</b> in Czech • preferred phonetic representation for Czech is 0072 <b>ɹ</b> 031D <b>ɹ̥</b> • in current use in Gaelic types (as glyph variant of 0072 <b>ɹ</b> ) → A783 <b>ɹ̄</b> latin small letter insular r → A785 <b>ɹ̄</b> latin small letter insular s
0271	ɱ	<b>LATIN SMALL LETTER M WITH HOOK</b> • voiced labiodental nasal • uppercase is 2C6E <b>Ṃ</b> → 1D86 <b>ɱ</b> latin small letter m with palatal hook	027D	ɹ̥	<b>LATIN SMALL LETTER R WITH TAIL</b> • voiced retroflex flap • uppercase is 2C64 <b>Ṛ</b> → 2C79 <b>ɹ̥</b> latin small letter turned r with tail
0272	ɲ	<b>LATIN SMALL LETTER N WITH LEFT HOOK</b> • voiced palatal nasal • uppercase is 019D <b>Ñ</b>	027E	ɹ̥	<b>LATIN SMALL LETTER R WITH FISHHOOK</b> • voiced alveolar flap or tap → 017F <b>ɹ̥</b> latin small letter long s
			027F	ɹ̥	<b>LATIN SMALL LETTER REVERSED R WITH FISHHOOK</b> = long leg turned iota (a misnomer) • apical dental vowel • used by linguists working on Chinese and other Sino-Tibetan languages • IPA spelling - 007A <b>z</b> 0329 <b>ɹ̥</b> • preferred presentation is with a descender

0280	<b>R</b>	<b>LATIN LETTER SMALL CAPITAL R</b> • voiced uvular trill • Germanic, Old Norse • uppercase is 01A6 <b>R</b>	028C	<b>Λ</b>	<b>LATIN SMALL LETTER TURNED V</b> = caret, wedge • lower-mid back unrounded vowel • uppercase is 0245 <b>Λ</b> → 039B <b>Λ</b> greek capital letter lamda → 1D27 <b>Λ</b> greek letter small capital lamda → 2227 <b>Λ</b> logical and
0281	<b>ʀ</b>	<b>LATIN LETTER SMALL CAPITAL INVERTED R</b> • voiced uvular fricative or approximant → 02B6 <sup>ʀ</sup> modifier letter small capital inverted r	028D	<b>ʍ</b>	<b>LATIN SMALL LETTER TURNED W</b> • voiceless rounded labiovelar approximant → AB69 <sup>ʍ</sup> modifier letter small turned w
0282	<b>ʂ</b>	<b>LATIN SMALL LETTER S WITH HOOK</b> • voiceless retroflex fricative • uppercase is A7C5 <b>Š</b>	028E	<b>ɰ</b>	<b>LATIN SMALL LETTER TURNED Y</b> • voiced lateral approximant
0283	<b>ʃ</b>	<b>LATIN SMALL LETTER ESH</b> • voiceless postalveolar fricative • uppercase is 01A9 <b>Š</b> → 222B <b>∫</b> integral → AB4D <b>ƒ</b> latin small letter baseline esh	028F	<b>ɻ</b>	<b>LATIN LETTER SMALL CAPITAL Y</b> • semi-high front rounded vowel
0284	<b>ɟ</b>	<b>LATIN SMALL LETTER DOTLESS J WITH STROKE AND HOOK</b> • implosive palatal stop • typographically based on 025F <b>ɟ</b> , not on 0283 <b>ɟ</b>	0290	<b>ɀ</b>	<b>LATIN SMALL LETTER Z WITH RETROFLEX HOOK</b> • voiced retroflex fricative
0285	<b>ɣ</b>	<b>LATIN SMALL LETTER SQUAT REVERSED ESH</b> • apical retroflex vowel • used by linguists working on Chinese and other Sino-Tibetan languages • IPA spelling - 0290 <b>ɀ</b> 0329 <b>ɣ</b> • in origin 027F <b>ɣ</b> plus the retroflex hook 0322 <b>ɀ</b> , despite its name • preferred presentation is with a descender	0291	<b>Ɂ</b>	<b>LATIN SMALL LETTER Z WITH CURL</b> • voiced alveolo-palatal laminal fricative • sound spelled with 017A <b>Ż</b> in Polish
0286	<b>ɶ</b>	<b>LATIN SMALL LETTER ESH WITH CURL</b> • palatalized voiceless postalveolar fricative • suggested spelling - 0283 <b>ɶ</b> 02B2 <sup>ɶ</sup>	0292	<b>Ƀ</b>	<b>LATIN SMALL LETTER EZH</b> = dram sign • voiced postalveolar fricative • mistakenly named yogh in Unicode 1.0 • uppercase is 01B7 <b>Ʒ</b> • Skolt Sami → 021D <b>Ƀ</b> latin small letter yogh → 04E1 <b>Ƀ</b> cyrillic small letter abkhasian dze → 2125 <b>Ƀ</b> ounce sign → 1F772 <b>Ƀ</b> alchemical symbol for half dram → 2CF01 <b>Ƀ</b>
0287	<b>ɗ</b>	<b>LATIN SMALL LETTER TURNED T</b> • dental click (sound of “tsk tsk”) • uppercase is A7B1 <b>Ƨ</b> → 01C0 <b>ɗ</b> latin letter dental click	0293	<b>Ʉ</b>	<b>LATIN SMALL LETTER EZH WITH CURL</b> • palatalized voiced postalveolar fricative
0288	<b>ɥ</b>	<b>LATIN SMALL LETTER T WITH RETROFLEX HOOK</b> • voiceless retroflex stop • uppercase is 01AE <b>Ƨ</b> → 01AD <b>ɥ</b> latin small letter t with hook → 1DF09 <b>ɥ</b> latin small letter t with hook and retroflex hook	0294	<b>ʔ</b>	<b>LATIN LETTER GLOTTAL STOP</b> • this is a caseless letter • used in IPA, other phonetic notations, and those orthographies which use a caseless glottal stop → 0241 <b>ʔ</b> latin capital letter glottal stop → 02C0 <b>ʔ</b> modifier letter glottal stop
0289	<b>ʉ</b>	<b>LATIN SMALL LETTER U BAR</b> • high central rounded vowel • uppercase is 0244 <b>ƨ</b> → 1D7E <b>ʉ</b> latin small capital letter u with stroke	0295	<b>ʀ</b>	<b>LATIN LETTER PHARYNGEAL VOICED FRICATIVE</b> = reversed glottal stop • voiced pharyngeal fricative • ain → 01B9 <b>ʀ</b> latin small letter ezh reversed → 02C1 <b>ʀ</b> modifier letter reversed glottal stop
028A	<b>ʊ</b>	<b>LATIN SMALL LETTER UPSILON</b> • near-close near-back rounded vowel • typographically, a turned Greek small capital omega AB65 <b>Ω</b> • preferred IPA alternate to 0277 <b>ω</b> • uppercase is 01B1 <b>Ο</b> → 03C5 <b>υ</b> greek small letter upsilon	0296	<b>ɸ</b>	<b>LATIN LETTER INVERTED GLOTTAL STOP</b> • lateral click → 01C1 <b>ɸ</b> latin letter lateral click
028B	<b>ʋ</b>	<b>LATIN SMALL LETTER V WITH HOOK</b> = latin small letter script v (1.0) • voiced labiodental approximant • uppercase is 01B2 <b>Ʋ</b> → 03C5 <b>υ</b> greek small letter upsilon	0297	<b>ɷ</b>	<b>LATIN LETTER STRETCHED C</b> • palatal (or alveolar) click → 01C3 <b>ɷ</b> latin letter retroflex click → 2201 <b>ɷ</b> complement
			0298	<b>ɸ</b>	<b>LATIN LETTER BILABIAL CLICK</b> = bullseye • this is a non-casing letter → 2299 <b>ɸ</b> circled dot operator → A668 <b>ɸ</b> cyrillic capital letter monocular o
			0299	<b>ɸ</b>	<b>LATIN LETTER SMALL CAPITAL B</b> • bilabial trill → 0432 <b>ɸ</b> cyrillic small letter ve

- 029A **ə** LATIN SMALL LETTER CLOSED OPEN E  
 = closed epsilon  
 • lower-mid front rounded vowel  
 • non-IPA alternate for the preferred 0153 œ  
 → 025E **ɢ** latin small letter closed reversed open e
- 029B **ɠ** LATIN LETTER SMALL CAPITAL G WITH HOOK  
 • voiced uvular implosive
- 029C **ɦ** LATIN LETTER SMALL CAPITAL H  
 • voiceless epiglottal fricative  
 → 043D **Ӏ** cyrillic small letter en  
 → 1D34 **ᶞ** modifier letter capital h  
 → A7F8 **ᶞ** modifier letter capital h with stroke
- 029D **ɵ** LATIN SMALL LETTER J WITH CROSSED-TAIL  
 • voiced palatal fricative  
 • uppercase is A7B2 **Ƶ**
- 029E **ɰ** LATIN SMALL LETTER TURNED K  
 • proposed for velar click  
 • uppercase is A7B0 **Ʒ**  
 • withdrawn by IPA in 1970  
 → 1DF10 **ɰ** latin letter small capital turned k
- 029F **ɭ** LATIN LETTER SMALL CAPITAL L  
 • velar lateral approximant
- 02A0 **ɸ** LATIN SMALL LETTER Q WITH HOOK  
 • voiceless uvular implosive
- 02A1 **ɶ** LATIN LETTER GLOTTAL STOP WITH STROKE  
 • voiced epiglottal stop
- 02A2 **ɷ** LATIN LETTER REVERSED GLOTTAL STOP WITH STROKE  
 • voiced epiglottal fricative
- 02A3 **ɸz** LATIN SMALL LETTER DZ DIGRAPH  
 • voiced dental affricate  
 → AB66 **ɸz** latin small letter dz digraph with retroflex hook
- 02A4 **ɸʒ** LATIN SMALL LETTER DEZH DIGRAPH  
 • voiced postalveolar affricate
- 02A5 **ɸʐ** LATIN SMALL LETTER DZ DIGRAPH WITH CURL  
 • voiced alveolo-palatal affricate
- 02A6 **ɸs** LATIN SMALL LETTER TS DIGRAPH  
 • voiceless dental affricate  
 → 01BE **ɸs** latin letter inverted glottal stop with stroke  
 → AB67 **ɸs** latin small letter ts digraph with retroflex hook
- 02A7 **ɸʃ** LATIN SMALL LETTER TESH DIGRAPH  
 • voiceless postalveolar affricate  
 → A729 **ɸʃ** latin small letter tz
- 02A8 **ɸc** LATIN SMALL LETTER TC DIGRAPH WITH CURL  
 • voiceless alveolo-palatal affricate

**IPA characters for disordered speech**

- 02A9 **ɸŋ** LATIN SMALL LETTER FENG DIGRAPH  
 • velopharyngeal fricative
- 02AA **ɸs** LATIN SMALL LETTER LS DIGRAPH  
 • lateral alveolar fricative (lisp)
- 02AB **ɸz** LATIN SMALL LETTER LZ DIGRAPH  
 • voiced lateral alveolar fricative
- 02AC **ɸʋ** LATIN LETTER BILABIAL PERCUSSIVE  
 • audible lip smack
- 02AD **ɸɹ** LATIN LETTER BIDENTAL PERCUSSIVE  
 • audible teeth gnashing

**Additions for Sinology**

- 02AE **ɸɰ** LATIN SMALL LETTER TURNED H WITH FISHHOOK