

IPA Extensions

Range: 0250–02AF

The Unicode Standard, Version 15.0

This file contains an excerpt from the character code tables and list of character names for *The Unicode Standard, Version 15.0*

Characters in this chart that are new for The Unicode Standard, Version 15.0 are shown in conjunction with any existing characters. For ease of reference, the new characters have been highlighted in the chart grid and in the names list.

This file will not be updated with errata, or when additional characters are assigned to the Unicode Standard.
See <https://www.unicode.org/errata/> for an up-to-date list of errata.

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-15.0/> for charts showing only the characters added in Unicode 15.0.
See <https://www.unicode.org/Public/15.0.0/charts/> for a complete archived file of character code charts for Unicode 15.0.
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 15.0 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 15.0, online at <https://www.unicode.org/versions/Unicode15.0.0/>, 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 <https://www.unicode.org/reports/>

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

Copying characters from the character code tables or list of character names is not recommended, because for production reasons the PDF files for the code charts cannot guarantee that the correct character codes will always be copied.

Fonts

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See <https://www.unicode.org/charts/fonts.html> for a list.

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See <https://www.unicode.org/pending/pending.html> and <https://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	ɸ̥ 02A0
1	ɑ̃ 0251	ɡ̃ 0261	ɱ̃ 0271	ʁ̃ 0281	ʑ̃ 0291	ɸ̥̃ 02A1
2	ɸ̥ 0252	ɠ̥ 0262	ɥ̥ 0272	ʀ̥ 0282	ʐ̥ 0292	ɸ̥̥ 02A2
3	ɸ̥̥ 0253	ɠ̥̥ 0263	ɥ̥̥ 0273	ʀ̥̥ 0283	ʐ̥̥ 0293	ɸ̥̥̥ 02A3
4	ɸ̥̥̥ 0254	ɠ̥̥̥ 0264	ɥ̥̥̥ 0274	ʀ̥̥̥ 0284	ʐ̥̥̥ 0294	ɸ̥̥̥̥ 02A4
5	ɸ̥̥̥̥ 0255	ɠ̥̥̥̥ 0265	ɥ̥̥̥̥ 0275	ʀ̥̥̥̥ 0285	ʐ̥̥̥̥ 0295	ɸ̥̥̥̥̥ 02A5
6	ɸ̥̥̥̥̥ 0256	ɠ̥̥̥̥̥ 0266	ɥ̥̥̥̥̥ 0276	ʀ̥̥̥̥̥ 0286	ʐ̥̥̥̥̥ 0296	ɸ̥̥̥̥̥̥ 02A6
7	ɸ̥̥̥̥̥̥ 0257	ɠ̥̥̥̥̥̥ 0267	ɥ̥̥̥̥̥̥ 0277	ʀ̥̥̥̥̥̥ 0287	ʐ̥̥̥̥̥̥ 0297	ɸ̥̥̥̥̥̥̥ 02A7
8	ɸ̥̥̥̥̥̥̥ 0258	ɠ̥̥̥̥̥̥̥ 0268	ɥ̥̥̥̥̥̥̥ 0278	ʀ̥̥̥̥̥̥̥ 0288	ʐ̥̥̥̥̥̥̥ 0298	ɸ̥̥̥̥̥̥̥̥ 02A8
9	ɸ̥̥̥̥̥̥̥̥ 0259	ɠ̥̥̥̥̥̥̥̥ 0269	ɥ̥̥̥̥̥̥̥̥ 0279	ʀ̥̥̥̥̥̥̥̥ 0289	ʐ̥̥̥̥̥̥̥̥ 0299	ɸ̥̥̥̥̥̥̥̥̥ 02A9
A	ɸ̥̥̥̥̥̥̥̥̥ 025A	ɠ̥̥̥̥̥̥̥̥̥ 026A	ɥ̥̥̥̥̥̥̥̥̥ 027A	ʀ̥̥̥̥̥̥̥̥̥ 028A	ʐ̥̥̥̥̥̥̥̥̥ 029A	ɸ̥̥̥̥̥̥̥̥̥̥ 02AA
B	ɸ̥̥̥̥̥̥̥̥̥̥ 025B	ɠ̥̥̥̥̥̥̥̥̥̥ 026B	ɥ̥̥̥̥̥̥̥̥̥̥ 027B	ʀ̥̥̥̥̥̥̥̥̥̥ 028B	ʐ̥̥̥̥̥̥̥̥̥̥ 029B	ɸ̥̥̥̥̥̥̥̥̥̥̥ 02AB
C	ɸ̥̥̥̥̥̥̥̥̥̥̥ 025C	ɠ̥̥̥̥̥̥̥̥̥̥̥ 026C	ɥ̥̥̥̥̥̥̥̥̥̥̥ 027C	ʀ̥̥̥̥̥̥̥̥̥̥̥ 028C	ʐ̥̥̥̥̥̥̥̥̥̥̥ 029C	ɸ̥̥̥̥̥̥̥̥̥̥̥̥ 02AC
D	ɸ̥̥̥̥̥̥̥̥̥̥̥̥ 025D	ɠ̥̥̥̥̥̥̥̥̥̥̥̥ 026D	ɥ̥̥̥̥̥̥̥̥̥̥̥̥ 027D	ʀ̥̥̥̥̥̥̥̥̥̥̥̥ 028D	ʐ̥̥̥̥̥̥̥̥̥̥̥̥ 029D	ɸ̥̥̥̥̥̥̥̥̥̥̥̥̥ 02AD
E	ɸ̥̥̥̥̥̥̥̥̥̥̥̥̥ 025E	ɠ̥̥̥̥̥̥̥̥̥̥̥̥̥ 026E	ɥ̥̥̥̥̥̥̥̥̥̥̥̥̥ 027E	ʀ̥̥̥̥̥̥̥̥̥̥̥̥̥ 028E	ʐ̥̥̥̥̥̥̥̥̥̥̥̥̥ 029E	ɸ̥̥̥̥̥̥̥̥̥̥̥̥̥̥ 02AE
F	ɸ̥̥̥̥̥̥̥̥̥̥̥̥̥̥ 025F	ɠ̥̥̥̥̥̥̥̥̥̥̥̥̥̥ 026F	ɥ̥̥̥̥̥̥̥̥̥̥̥̥̥̥ 027F	ʀ̥̥̥̥̥̥̥̥̥̥̥̥̥̥ 028F	ʐ̥̥̥̥̥̥̥̥̥̥̥̥̥̥ 029F	ɸ̥̥̥̥̥̥̥̥̥̥̥̥̥̥̥ 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 ċ 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 ŋ 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
- 0250 ɐ LATIN SMALL LETTER TURNED A
- low central unrounded vowel
 - uppercase is 2C6F Ǽ
- 0251 ɑ LATIN SMALL LETTER ALPHA
- = latin small letter script a (1.0)
 - low back unrounded vowel
 - uppercase is 2C6D Ǫ
 - 03B1 α greek small letter alpha
- 0252 ɒ LATIN SMALL LETTER TURNED ALPHA
- low back rounded vowel
 - uppercase is 2C70 Ɔ
 - AB64 ɑ latin small letter inverted alpha
- 0253 ɓ LATIN SMALL LETTER B WITH HOOK
- implosive bilabial stop
 - Pan-Nigerian alphabet
 - uppercase is 0181 Ɓ
- 0254 ɔ LATIN SMALL LETTER OPEN O
- typographically a turned c
 - lower-mid back rounded vowel
 - in older Danish usage “ɔ:” means “that is”
 - uppercase is 0186 Ɔ
- 0255 ɕ LATIN SMALL LETTER C WITH CURL
- voiceless alveolo-palatal laminal fricative
 - used in transcription of Mandarin Chinese
 - sound spelled with 015B ś in Polish
- 0256 ɔ̣ LATIN SMALL LETTER D WITH TAIL
- = d retroflex hook
 - voiced retroflex stop
 - uppercase is 0189 Ɖ
- 0257 ɖ LATIN SMALL LETTER D WITH HOOK
- implosive dental or alveolar stop
 - Ewe, Pan-Nigerian alphabet
 - uppercase is 018A Ɗ
- 0258 ɘ LATIN SMALL LETTER REVERSED E
- upper-mid central unrounded vowel
- 0259 ɚ LATIN SMALL LETTER SCHWA
- mid-central unrounded vowel
 - uppercase is 018F Ǝ
 - variant uppercase form 018E Ǝ is associated with 01DD ə
 - 01DD ə latin small letter turned e
 - 04D9 ə cyrillic small letter schwa
- 025A ɛ̣ LATIN SMALL LETTER SCHWA WITH HOOK
- rhotacized schwa
- 025B ɛ LATIN SMALL LETTER OPEN E
- = epsilon
 - lower-mid front unrounded vowel
 - uppercase is 0190 Ʒ
 - 03B5 ε greek small letter epsilon
- 025C ɜ LATIN SMALL LETTER REVERSED OPEN E
- lower-mid central unrounded vowel
 - uppercase is A7AB Ʒ
- 025D ɝ LATIN SMALL LETTER REVERSED OPEN E WITH HOOK
- rhotacized lower-mid central vowel
- 025E ɞ LATIN SMALL LETTER CLOSED REVERSED OPEN E
- = closed reversed epsilon
 - lower-mid central rounded vowel
- 025F ɟ LATIN SMALL LETTER DOTLESS J WITH STROKE
- voiced palatal stop
 - typographically a turned f, but better thought of as a form of j
 - “gy” in Hungarian orthography
 - also archaic phonetic for palatoalveolar affricate 02A4 ɟ͡ʝ
- 0260 ɡ̣ LATIN SMALL LETTER G WITH HOOK
- implosive velar stop
 - uppercase is 0193 Ɠ
- 0261 ɡ̥ LATIN SMALL LETTER SCRIPT G
- voiced velar stop
 - uppercase is A7AC Ɠ
 - 0067 ɡ latin small letter g
- 0262 Ɔ LATIN LETTER SMALL CAPITAL G
- voiced uvular stop
- 0263 ɣ LATIN SMALL LETTER GAMMA
- voiced velar fricative
 - uppercase is 0194 Ƴ
 - 03B3 γ greek small letter gamma
- 0264 ɤ LATIN SMALL LETTER RAMS HORN
- = latin small letter baby gamma (1.0)
 - upper-mid back unrounded vowel
- 0265 ɥ LATIN SMALL LETTER TURNED H
- voiced rounded palatal approximant
 - uppercase is A78D ƥ
- 0266 ɦ LATIN SMALL LETTER H WITH HOOK
- breathy-voiced glottal fricative
 - uppercase is A7AA Ƨ
 - uppercase in Nawdm is 0124 ɦ̣
 - 02B1 ɦ̣ modifier letter small h with hook
- 0267 ɦ̥ LATIN SMALL LETTER HENG WITH HOOK
- voiceless coarticulated velar and palatoalveolar fricative
 - “sj” in some Swedish dialects
- 0268 ı̄ LATIN SMALL LETTER I WITH STROKE
- = barred i, i bar
 - high central unrounded vowel
 - uppercase is 0197 Ǝ
 - ISO 6438 gives lowercase of 0197 as 026A, not 0268
- 0269 ɪ LATIN SMALL LETTER IOTA
- semi-high front unrounded vowel
 - obsoleted by IPA in 1989
 - preferred use is 026A ɪ latin letter small capital i
 - uppercase is 0196 Ǝ
 - 03B9 ι greek small letter iota

026A	ɪ	LATIN LETTER SMALL CAPITAL I • semi-high front unrounded vowel • preferred IPA alternate for 0269 ɪ • uppercase is A7AE ⱦ • glyph should have top and bottom serifs even in sans serif IPA font designs, to avoid confusion with lowercase i	027C	ɹ	LATIN SMALL LETTER R WITH LONG LEG • voiced strident apico-alveolar trill • obsoleted by IPA in 1989 • sound spelled with 0159 ř in Czech • preferred phonetic representation for Czech is 0072 r 031D Ꞥ • in current use in Gaelic types (as glyph variant of 0072 r)
026B	ɺ	LATIN SMALL LETTER L WITH MIDDLE TILDE • velarized voiced alveolar lateral approximant • uppercase is 2C62 Ł	027D	ɽ	LATIN SMALL LETTER R WITH TAIL • voiced retroflex flap • uppercase is 2C64 Ṛ
026C	ɻ	LATIN SMALL LETTER L WITH BELT • voiceless alveolar lateral fricative • uppercase is A7AD Ɱ	027E	ɾ	LATIN SMALL LETTER R WITH FISHHOOK • voiced alveolar flap or tap
026D	ɺ̥	LATIN SMALL LETTER L WITH RETROFLEX HOOK • voiced retroflex lateral	027F	ɿ	LATIN SMALL LETTER REVERSED R WITH FISHHOOK = long leg turned iota (a misnomer) • apical dental vowel • used by linguists working on Chinese and other Sino-Tibetan languages • IPA spelling - 007A z 0329 Ꞥ • preferred presentation is with a descender
026E	ɺ̥̥	LATIN SMALL LETTER LEZH • voiced lateral fricative • “dhl” in Zulu orthography	0280	ɿ	LATIN LETTER SMALL CAPITAL R • voiced uvular trill • Germanic, Old Norse • uppercase is 01A6 Ṛ
026F	ɿ	LATIN SMALL LETTER TURNED M • high back unrounded vowel • uppercase is 019C Ṛ	0281	ɿ̥	LATIN LETTER SMALL CAPITAL INVERTED R • voiced uvular fricative or approximant → 02B6 ʀ modifier letter small capital inverted r
0270	ɿ̥̥	LATIN SMALL LETTER TURNED M WITH LONG LEG • voiced velar approximant	0282	ɿ̥̥	LATIN SMALL LETTER S WITH HOOK • voiceless retroflex fricative • uppercase is A7C5 Ṣ
0271	ɿ̥̥̥	LATIN SMALL LETTER M WITH HOOK • voiced labiodental nasal • uppercase is 2C6E Ṣ	0283	ɿ̥̥̥	LATIN SMALL LETTER ESH • voiceless postalveolar fricative • uppercase is 01A9 Ṣ → 222B ɻ integral
0272	ɿ̥̥̥̥	LATIN SMALL LETTER N WITH LEFT HOOK • voiced palatal nasal • uppercase is 019D Ṣ	0284	ɿ̥̥̥̥	LATIN SMALL LETTER DOTLESS J WITH STROKE AND HOOK • implosive palatal stop • typographically based on 025F ɻ , not on 0283 ɻ
0273	ɿ̥̥̥̥̥	LATIN SMALL LETTER N WITH RETROFLEX HOOK • voiced retroflex nasal	0285	ɿ̥̥̥̥̥	LATIN SMALL LETTER SQUAT REVERSED ESH • apical retroflex vowel • used by linguists working on Chinese and other Sino-Tibetan languages • IPA spelling - 0290 z 0329 Ꞥ • in origin 027F ɻ plus the retroflex hook 0322 Ꞥ , despite its name • preferred presentation is with a descender
0274	ɿ̥̥̥̥̥̥	LATIN LETTER SMALL CAPITAL N • voiced uvular nasal	0286	ɿ̥̥̥̥̥̥	LATIN SMALL LETTER ESH WITH CURL • palatalized voiceless postalveolar fricative • suggested spelling - 0283 ɻ 02B2 Ṣ
0275	ɿ̥̥̥̥̥̥̥	LATIN SMALL LETTER BARRED O = o bar • rounded mid-central vowel, i.e. rounded schwa • uppercase is 019F Ṣ → 03B8 θ greek small letter theta → 0473 Ѡ cyrillic small letter fita → 04E9 Ѡ cyrillic small letter barred o	0287	ɿ̥̥̥̥̥̥̥	LATIN SMALL LETTER TURNED T • dental click (sound of “tsk tsk”) • uppercase is A7B1 Ṣ → 01C0 l latin letter dental click
0276	ɿ̥̥̥̥̥̥̥̥	LATIN LETTER SMALL CAPITAL OE • low front rounded vowel → 0153 œ latin small ligature oe	0288	ɿ̥̥̥̥̥̥̥̥	LATIN SMALL LETTER T WITH RETROFLEX HOOK • voiceless retroflex stop • uppercase is 01AE Ṣ
0277	ɿ̥̥̥̥̥̥̥̥̥	LATIN SMALL LETTER CLOSED OMEGA • semi-high back rounded vowel • obsoleted by IPA in 1989 • preferred use is 028A υ latin small letter upsilon → AB65 ω greek letter small capital omega	0289	ɿ̥̥̥̥̥̥̥̥̥	LATIN SMALL LETTER U BAR • high central rounded vowel • uppercase is 0244 Ṣ → 1D7E Ṣ latin small capital letter u with stroke
0278	ɿ̥̥̥̥̥̥̥̥̥̥	LATIN SMALL LETTER PHI • voiceless bilabial fricative → 03C6 φ greek small letter phi			
0279	ɿ̥̥̥̥̥̥̥̥̥̥̥	LATIN SMALL LETTER TURNED R • voiced alveolar approximant → 02B4 ɻ modifier letter small turned r			
027A	ɿ̥̥̥̥̥̥̥̥̥̥̥̥	LATIN SMALL LETTER TURNED R WITH LONG LEG • voiced lateral flap			
027B	ɿ̥̥̥̥̥̥̥̥̥̥̥̥̥	LATIN SMALL LETTER TURNED R WITH HOOK • voiced retroflex approximant → 02B5 ɻ modifier letter small turned r with hook			

028A	ʊ	LATIN SMALL LETTER UPSILON • semi-high back rounded vowel • preferred IPA alternate to 0277 ɔ • uppercase is 01B1 Ū → 03C5 ʊ greek small letter upsilon
028B	ʋ	LATIN SMALL LETTER V WITH HOOK = latin small letter script v (1.0) • voiced labiodental approximant • uppercase is 01B2 Ū → 03C5 ʋ greek small letter upsilon
028C	Λ	LATIN SMALL LETTER TURNED V = caret, wedge • lower-mid back unrounded vowel • uppercase is 0245 Λ → 039B Λ greek capital letter lamda → 2038 Λ caret → 2227 Λ logical and
028D	ʍ	LATIN SMALL LETTER TURNED W • voiceless rounded labiovelar approximant → AB69 ʍ modifier letter small turned w
028E	ʎ	LATIN SMALL LETTER TURNED Y • voiced lateral approximant
028F	ɥ	LATIN LETTER SMALL CAPITAL Y • semi-high front rounded vowel
0290	ɀ	LATIN SMALL LETTER Z WITH RETROFLEX HOOK • voiced retroflex fricative
0291	ʐ	LATIN SMALL LETTER Z WITH CURL • voiced alveolo-palatal laminal fricative • sound spelled with 017A ʐ in Polish
0292	ʒ	LATIN SMALL LETTER EZH = dram • voiced postalveolar fricative • mistakenly named yogh in Unicode 1.0 • uppercase is 01B7 Ʒ • Skolt Sami → 021D ʒ latin small letter yogh → 04E1 ʒ cyrillic small letter abkhasian dze → 2125 ʒ ounce sign → 1F772 ʒ alchemical symbol for half dram
0293	ʑ	LATIN SMALL LETTER EZH WITH CURL • palatalized voiced postalveolar fricative
0294	ʔ	LATIN LETTER GLOTTAL STOP • this is a caseless letter • used in IPA, other phonetic notations, and those orthographies which use a caseless glottal stop → 0241 ʔ latin capital letter glottal stop → 02C0 ʔ modifier letter glottal stop
0295	ʕ	LATIN LETTER PHARYNGEAL VOICED FRICATIVE = reversed glottal stop • voiced pharyngeal fricative • ain → 01B9 ʕ latin small letter ezh reversed → 02C1 ʕ modifier letter reversed glottal stop
0296	ɸ	LATIN LETTER INVERTED GLOTTAL STOP • lateral click → 01C1 ɸ latin letter lateral click
0297	ɕ	LATIN LETTER STRETCHED C • palatal (or alveolar) click → 01C3 ɕ latin letter retroflex click → 2201 ɕ complement

0298	⊙	LATIN LETTER BILABIAL CLICK = bullseye → 2299 ⊙ circled dot operator
0299	Ƀ	LATIN LETTER SMALL CAPITAL B • bilabial trill
029A	ɛ̥	LATIN SMALL LETTER CLOSED OPEN E = closed epsilon • lower-mid front rounded vowel • non-IPA alternate for the preferred 0153 œ
029B	ɠ	LATIN LETTER SMALL CAPITAL G WITH HOOK • voiced uvular implosive
029C	ħ	LATIN LETTER SMALL CAPITAL H • voiceless epiglottal fricative → 1D34 ħ modifier letter capital h → A7F8 ħ modifier letter capital h with stroke
029D	ɟ	LATIN SMALL LETTER J WITH CROSSED-TAIL • voiced palatal fricative • uppercase is A7B2 ƶ
029E	ɥ̥	LATIN SMALL LETTER TURNED K • proposed for velar click • uppercase is A7B0 ƶ • withdrawn by IPA in 1970
029F	ɭ	LATIN LETTER SMALL CAPITAL L • velar lateral approximant
02A0	ɥ̥	LATIN SMALL LETTER Q WITH HOOK • voiceless uvular implosive
02A1	ʔ̥	LATIN LETTER GLOTTAL STOP WITH STROKE • voiced epiglottal stop
02A2	ʕ̥	LATIN LETTER REVERSED GLOTTAL STOP WITH STROKE • voiced epiglottal fricative
02A3	ɖz	LATIN SMALL LETTER DZ DIGRAPH • voiced dental affricate → AB66 ɖz latin small letter dz digraph with retroflex hook
02A4	ɖʒ	LATIN SMALL LETTER DEZH DIGRAPH • voiced postalveolar affricate
02A5	ɖʑ	LATIN SMALL LETTER DZ DIGRAPH WITH CURL • voiced alveolo-palatal affricate
02A6	ɬs	LATIN SMALL LETTER TS DIGRAPH • voiceless dental affricate → AB67 ɬs latin small letter ts digraph with retroflex hook
02A7	ɬʃ	LATIN SMALL LETTER TESH DIGRAPH • voiceless postalveolar affricate
02A8	ɬɕ	LATIN SMALL LETTER TC DIGRAPH WITH CURL • voiceless alveolo-palatal affricate

IPA characters for disordered speech

02A9	ɸ̥	LATIN SMALL LETTER FENG DIGRAPH • velopharyngeal fricative
02AA	ɬs	LATIN SMALL LETTER LS DIGRAPH • lateral alveolar fricative (lisp)
02AB	ɬz	LATIN SMALL LETTER LZ DIGRAPH • voiced lateral alveolar fricative
02AC	ɸ̥	LATIN LETTER BILABIAL PERCUSSIVE • audible lip smack
02AD	ɸ̥	LATIN LETTER BIDENTAL PERCUSSIVE • audible teeth gnashing

Additions for Sinology

02AE	ɸ̥	LATIN SMALL LETTER TURNED H WITH FISHHOOK
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02AF ɥ LATIN SMALL LETTER TURNED H WITH
FISHHOOK AND TAIL