

IPA Extensions

Range: 0250–02AF

This file contains an excerpt from the character code tables and list of character names for *The Unicode Standard, Version 12.1*

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See <http://www.unicode.org/errata/> for an up-to-date list of errata.

See <http://www.unicode.org/charts/> for access to a complete list of the latest character code charts.
See <http://www.unicode.org/charts/PDF/Unicode-12.1/> for charts showing only the characters added in Unicode 12.1.
See <http://www.unicode.org/Public/12.1.0/charts/> for a complete archived file of character code charts for Unicode 12.1.

Disclaimer

These charts are provided as the online reference to the character contents of the Unicode Standard, Version 12.1 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 12.1, online at <http://www.unicode.org/versions/Unicode12.1.0/>, 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 <http://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.

Fonts

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

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

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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 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 ɶ **LATIN SMALL LETTER TURNED A**
 - low central unrounded vowel
 - uppercase is 2C6F **V**
- 0251 ɑ **LATIN SMALL LETTER ALPHA**
 - = latin small letter script a (1.0)
 - low back unrounded vowel
 - uppercase is 2C6D **Ɑ**
 - 03B1 α greek small letter alpha
- 0252 ɒ **LATIN SMALL LETTER TURNED ALPHA**
 - low back rounded vowel
 - uppercase is 2C70 **Ɱ**
 - AB64 ɑ latin small letter inverted alpha
- 0253 ɓ **LATIN SMALL LETTER B WITH HOOK**
 - implosive bilabial stop
 - Pan-Nigerian alphabet
 - uppercase is 0181 **Ḃ**
- 0254 ɔ̥ **LATIN SMALL LETTER OPEN O**
 - typographically a turned c
 - lower-mid back rounded vowel
 - in older Danish usage “ɔ̥” means “that is”
 - uppercase is 0186 **Ɱ**
- 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 **Ḍ**
- 0257 ɔ̣̥ **LATIN SMALL LETTER D WITH HOOK**
 - implosive dental or alveolar stop
 - Ewe, Pan-Nigerian alphabet
 - uppercase is 018A **Ḑ**
- 0258 ɘ **LATIN SMALL LETTER REVERSED E**
 - upper-mid central unrounded vowel
- 0259 ə̣ **LATIN SMALL LETTER SCHWA**
 - mid-central unrounded vowel
 - uppercase is 018F **Ḙ**
 - variant uppercase form 018E **Ḝ** is associated with 01DD ə̣
 - 01DD ə̣ latin small letter turned e
 - 04D9 ə̣ cyrillic small letter schwa
- 025A ɶ̣ **LATIN SMALL LETTER SCHWA WITH HOOK**
 - rhotacized schwa
- 025B ε̣ **LATIN SMALL LETTER OPEN E**
 - = epsilon
 - lower-mid front unrounded vowel
 - uppercase is 0190 **Ɛ**
 - 03B5 ε̣ greek small letter epsilon
- 025C ɜ̣ **LATIN SMALL LETTER REVERSED OPEN E**
 - lower-mid central unrounded vowel
 - uppercase is A7AB **Ʒ**
- 025D ɜ̣̥ **LATIN SMALL LETTER REVERSED OPEN E WITH HOOK**
 - rhotacized lower-mid central vowel
- 025E ɞ̣ **LATIN SMALL LETTER CLOSED REVERSED OPEN E**
 - = closed reversed epsilon
 - lower-mid central rounded vowel
- 025F ɶ̣̥ **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 **Ḡ**
- 0261 ɡ̣̥ **LATIN SMALL LETTER SCRIPT G**
 - voiced velar stop
 - uppercase is A7AC **Ḣ**
 - 0067 ɡ latin small letter g
- 0262 ɠ **LATIN LETTER SMALL CAPITAL G**
 - voiced uvular stop
- 0263 ɣ̣ **LATIN SMALL LETTER GAMMA**
 - voiced velar fricative
 - uppercase is 0194 **Ƴ**
 - 03B3 γ̣ greek small letter gamma
- 0264 ɣ̣̥ **LATIN SMALL LETTER RAMS HORN**
 - = latin small letter baby gamma (1.0)
 - upper-mid back unrounded vowel
- 0265 ɥ̣ **LATIN SMALL LETTER TURNED H**
 - voiced rounded palatal approximant
 - uppercase is A78D **Ḧ**
- 0266 ɦ̣ **LATIN SMALL LETTER H WITH HOOK**
 - breathy-voiced glottal fricative
 - uppercase is A7AA **Ḩ**
 - uppercase in Nawdm is 0124 **Ḥ̈**
 - 02B1 ɦ̣ modifier letter small h with hook
- 0267 ɦ̣̥ **LATIN SMALL LETTER HENG WITH HOOK**
 - voiceless coarticulated velar and palatoalveolar fricative
 - “sj” in some Swedish dialects
- 0268 ɨ̣̥ **LATIN SMALL LETTER I WITH STROKE**
 - = barred i, i bar
 - high central unrounded vowel
 - uppercase is 0197 **İ**
 - ISO 6438 gives lowercase of 0197 as 026A, not 0268
- 0269 ɪ̣ **LATIN SMALL LETTER IOTA**
 - semi-high front unrounded vowel
 - obsoleted by IPA in 1989
 - preferred use is 026A **Ɱ** latin letter small capital i
 - uppercase is 0196 **Ɱ**
 - 03B9 ι̣ greek small letter iota

026A	ɪ	LATIN LETTER SMALL CAPITAL I	027C	ɹ	LATIN SMALL LETTER R WITH LONG LEG
		<ul style="list-style-type: none"> • semi-high front unrounded vowel • preferred IPA alternate for 0269 ɪ • uppercase is A7AE Ɔ • glyph should have top and bottom serifs even in sans serif IPA font designs, to avoid confusion with lowercase l 			<ul style="list-style-type: none"> • voiced strident apico-alveolar trill • obsoleted by IPA in 1989 • sound spelled with 0159 ř in Czech • preferred phonetic representation for Czech is 0072 ɹ 031D ɹ̥ • in current use in Gaelic types (as glyph variant of 0072 ɹ)
026B	ɭ	LATIN SMALL LETTER L WITH MIDDLE TILDE	027D	ɽ	LATIN SMALL LETTER R WITH TAIL
		<ul style="list-style-type: none"> • velarized voiced alveolar lateral approximant • uppercase is 2C62 ƚ 			<ul style="list-style-type: none"> • voiced retroflex flap • uppercase is 2C64 ƚ̥
026C	ɬ	LATIN SMALL LETTER L WITH BELT	027E	r	LATIN SMALL LETTER R WITH FISHHOOK
		<ul style="list-style-type: none"> • voiceless alveolar lateral fricative • uppercase is A7AD ƚ̥ 			<ul style="list-style-type: none"> • voiced alveolar flap or tap
026D	ɭ	LATIN SMALL LETTER L WITH RETROFLEX HOOK	027F	ɹ̥	LATIN SMALL LETTER REVERSED R WITH FISHHOOK
		<ul style="list-style-type: none"> • voiced retroflex lateral 			<ul style="list-style-type: none"> = 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 ɹ̥ • preferred presentation is with a descender
026E	ɮ	LATIN SMALL LETTER LEZH	0280	ʀ	LATIN LETTER SMALL CAPITAL R
		<ul style="list-style-type: none"> • voiced lateral fricative • “dhl” in Zulu orthography 			<ul style="list-style-type: none"> • voiced uvular trill • Germanic, Old Norse • uppercase is 01A6 ƚ̥
026F	ʉ	LATIN SMALL LETTER TURNED M	0281	ʀ̥	LATIN LETTER SMALL CAPITAL INVERTED R
		<ul style="list-style-type: none"> • high back unrounded vowel • uppercase is 019C ʉ 			<ul style="list-style-type: none"> • voiced uvular fricative or approximant → 02B6 ʀ̥ modifier letter small capital inverted r
0270	ɥ	LATIN SMALL LETTER TURNED M WITH LONG LEG	0282	ʂ	LATIN SMALL LETTER S WITH HOOK
		<ul style="list-style-type: none"> • voiced velar approximant 			<ul style="list-style-type: none"> • voiceless retroflex fricative • uppercase is A7C5 ʂ
0271	ɱ	LATIN SMALL LETTER M WITH HOOK	0283	ʃ	LATIN SMALL LETTER ESH
		<ul style="list-style-type: none"> • voiced labiodental nasal • uppercase is 2C6E ɱ 			<ul style="list-style-type: none"> • voiceless postalveolar fricative • uppercase is 01A9 ʃ → 222B ʃ integral
0272	ɲ	LATIN SMALL LETTER N WITH LEFT HOOK	0284	ʃ̥	LATIN SMALL LETTER DOTLESS J WITH STROKE AND HOOK
		<ul style="list-style-type: none"> • voiced palatal nasal • uppercase is 019D ɲ 			<ul style="list-style-type: none"> • implosive palatal stop • typographically based on 025F ʃ̥, not on 0283 ʃ
0273	ɳ	LATIN SMALL LETTER N WITH RETROFLEX HOOK	0285	ɶ	LATIN SMALL LETTER SQUAT REVERSED ESH
		<ul style="list-style-type: none"> • voiced retroflex nasal 			<ul style="list-style-type: none"> • apical retroflex vowel • used by linguists working on Chinese and other Sino-Tibetan languages • IPA spelling - 0290 ɶ 0329 ɶ̥ • in origin 027F ɶ̥ plus the retroflex hook 0322 ɶ̥, despite its name • preferred presentation is with a descender
0274	ɺ	LATIN LETTER SMALL CAPITAL N	0286	ʃ̥	LATIN SMALL LETTER ESH WITH CURL
		<ul style="list-style-type: none"> • voiced uvular nasal 			<ul style="list-style-type: none"> • palatalized voiceless postalveolar fricative • suggested spelling - 0283 ʃ̥ 02B2 ʃ̥
0275	ɵ	LATIN SMALL LETTER BARRED O	0287	ɹ̥	LATIN SMALL LETTER TURNED T
		<ul style="list-style-type: none"> = o bar • rounded mid-central vowel, i.e. rounded schwa • uppercase is 019F ɵ → 03B8 ɵ greek small letter theta → 0473 ɵ cyrillic small letter fita → 04E9 ɵ cyrillic small letter barred o 			<ul style="list-style-type: none"> • dental click (sound of “tsk tsk”) • uppercase is A7B1 ɹ̥ → 01C0 ɹ̥ latin letter dental click
0276	œ	LATIN LETTER SMALL CAPITAL OE	0288	ɽ	LATIN SMALL LETTER T WITH RETROFLEX HOOK
		<ul style="list-style-type: none"> • low front rounded vowel → 0153 œ latin small ligature oe 			<ul style="list-style-type: none"> • voiceless retroflex stop • uppercase is 01AE ɽ
0277	ω	LATIN SMALL LETTER CLOSED OMEGA	0289	ʉ̥	LATIN SMALL LETTER U BAR
		<ul style="list-style-type: none"> • semi-high back rounded vowel • obsoleted by IPA in 1989 • preferred use is 028A ʉ̥ latin small letter upsilon → AB65 ω greek letter small capital omega 			<ul style="list-style-type: none"> • high central rounded vowel • uppercase is 0244 ʉ̥ → 1D7E ʉ̥ latin small capital letter u with stroke
0278	φ	LATIN SMALL LETTER PHI			
		<ul style="list-style-type: none"> • voiceless bilabial fricative → 03C6 φ greek small letter phi 			
0279	ɹ̥	LATIN SMALL LETTER TURNED R			
		<ul style="list-style-type: none"> • voiced alveolar approximant → 02B4 ɹ̥ modifier letter small turned r 			
027A	ɹ̥	LATIN SMALL LETTER TURNED R WITH LONG LEG			
		<ul style="list-style-type: none"> • voiced lateral flap 			
027B	ɹ̥	LATIN SMALL LETTER TURNED R WITH HOOK			
		<ul style="list-style-type: none"> • voiced retroflex approximant → 02B5 ɹ̥ modifier letter small turned r with hook 			

028A	Ϝ	LATIN SMALL LETTER UPSILON
		• semi-high back rounded vowel
		• preferred IPA alternate to 0277 ω
		• uppercase is 01B1 Ů
		→ 03C5 Ϝ greek small letter upsilon
028B	Ϟ	LATIN SMALL LETTER V WITH HOOK
		= latin small letter script v (1.0)
		• voiced labiodental approximant
		• uppercase is 01B2 Ŭ
		→ 03C5 Ϟ 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	Ϟ	LATIN SMALL LETTER TURNED W
		• voiceless rounded labiovelar approximant
028E	Ϟ	LATIN SMALL LETTER TURNED Y
		• voiced lateral approximant
028F	Ϟ	LATIN LETTER SMALL CAPITAL Y
		• semi-high front rounded vowel
0290	Ϟ	LATIN SMALL LETTER Z WITH RETROFLEX HOOK
		• voiced retroflex fricative
0291	Ϟ	LATIN SMALL LETTER Z WITH CURL
		• voiced alveolo-palatal laminal fricative
		• sound spelled with 017A Ż in Polish
0292	Ϟ	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	Ϟ	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	Ϟ	LATIN LETTER PHARYNGEAL VOICED FRICATIVE
		= reversed glottal stop
		• voiced pharyngeal fricative
		• ain
		→ 01B9 Ϟ latin small letter ezh reversed
		→ 02C1 Ϟ modifier letter reversed glottal stop
0296	ʝ	LATIN LETTER INVERTED GLOTTAL STOP
		• lateral click
		→ 01C1 ʝ latin letter lateral click
0297	Ϟ	LATIN LETTER STRETCHED C
		• palatal (or alveolar) click
		→ 01C3 ! latin letter retroflex click
		→ 2201 Ϟ complement
0298	⊙	LATIN LETTER BILABIAL CLICK
		= bullseye
		→ 2299 ⊙ circled dot operator

0299	ⓑ	LATIN LETTER SMALL CAPITAL B
		• bilabial trill
029A	ⓔ	LATIN SMALL LETTER CLOSED OPEN E
		= closed epsilon
		• lower-mid front rounded vowel
		• non-IPA alternate for the preferred 0153 œ
029B	Ϟ	LATIN LETTER SMALL CAPITAL G WITH HOOK
		• voiced uvular implosive
029C	ⓓ	LATIN LETTER SMALL CAPITAL H
		• voiceless epiglottal fricative
029D	ⓙ	LATIN SMALL LETTER J WITH CROSSED-TAIL
		• voiced palatal fricative
		• uppercase is A7B2 ƶ
029E	Ϟ	LATIN SMALL LETTER TURNED K
		• proposed for velar click
		• uppercase is A7B0 ƶ
		• withdrawn by IPA in 1970
029F	Ⓛ	LATIN LETTER SMALL CAPITAL L
		• velar lateral approximant
02A0	Ϟ	LATIN SMALL LETTER Q WITH HOOK
		• voiceless uvular implosive
02A1	ʔ	LATIN LETTER GLOTTAL STOP WITH STROKE
		• voiced epiglottal stop
02A2	Ϟ	LATIN LETTER REVERSED GLOTTAL STOP WITH STROKE
		• voiced epiglottal fricative
02A3	ⓓ	LATIN SMALL LETTER DZ DIGRAPH
		• voiced dental affricate
		→ AB66 ⓓ latin small letter dz digraph with retroflex hook
02A4	ⓓ	LATIN SMALL LETTER DEZH DIGRAPH
		• voiced postalveolar affricate
02A5	ⓓ	LATIN SMALL LETTER DZ DIGRAPH WITH CURL
		• voiced alveolo-palatal affricate
02A6	ⓓ	LATIN SMALL LETTER TS DIGRAPH
		• voiceless dental affricate
		→ AB67 ⓓ latin small letter ts digraph with retroflex hook
02A7	Ϟ	LATIN SMALL LETTER TESH DIGRAPH
		• voiceless postalveolar affricate
02A8	ⓓ	LATIN SMALL LETTER TC DIGRAPH WITH CURL
		• voiceless alveolo-palatal affricate

IPA characters for disordered speech

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

Additions for Sinology

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