**IPA Extensions**

**Range: 0250–02AF**

**The Unicode Standard, Version 15.0 DRAFT**

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

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/](https://www.unicode.org/errata/) for an up-to-date list of errata.

See [https://www.unicode.org/charts/](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/](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/](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](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/](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/](https://www.unicode.org/ucd/) and [https://www.unicode.org/reports/](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](https://www.unicode.org/charts/fonts.html) for a list.

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**See** [https://www.unicode.org/pending/pending.html](https://www.unicode.org/pending/pending.html) and [https://www.unicode.org/alloc/Pipeline.html](https://www.unicode.org/alloc/Pipeline.html).

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| 02AF IPA Extensions | 0250 0251 0252 0253 0254 0255 0256 0257 0258 0259 025A 025B 025C 025D 025E 025F 0260 0261 0262 0263 0264 0265 0266 0267 0268 0269 026A 026B 026C 026D 026E 026F 0270 0271 0272 0273 0274 0275 0276 0277 0278 0279 027A 027B 027C 027D 027E 027F 0280 0281 0282 0283 0284 0285 0286 0287 0288 0289 028A 028B 028C 028D 028E 028F 0290 0291 0292 0293 0294 0295 0296 0297 0298 0299 029A 029B 029C 029D 029E 029F 02A0 02A1 02A2 02A3 02A4 02A5 02A6 02A7 02A8 02A9 02AA 02AB 02AC 02AD 02AE 02AF 02B0 02B1 02B2 02B3 02B4 02B5 02B6 02B7 02B8 02B9 02BA 02BB 02BC 02BD 02BE 02BF 02C0 02C1 02C2 02C3 02C4 02C5 02C6 02C7 02C8 02C9 02CA 02CB 02CC 02CD 02CE 02CF 02D0 02D1 02D2 02D3 02D4 02D5 02D6 02D7 02D8 02D9 02DA 02DB 02DC 02DD 02DE 02DF 02E0 02E1 02E2 02E3 02E4 02E5 02E6 02E7 02E8 02E9 02EA 02EB 02EC 02ED 02EE 02EF 02F0 02F1 02F2 02F3 02F4 02F5 02F6 02F7 02F8 02F9 02FA 02FB 02FC 02FD 02FE 02FF |
IPA extensions
IPA includes basic Latin letters and a number of Latin or Greek letters from other blocks.

- 006E ą latin small letter ae
- 007C ć latin small letter c with cedilla
- 00F0 đ latin small letter eth
- 00F8 ô latin small letter o with stroke
- 0127 h latin small letter h with stroke
- 0148 ɨ latin small letter eng
- 0153 œ latin small ligature oe
- 03B2 β greek small letter beta
- 03B6 θ greek small letter theta
- 03BB λ greek small letter lambda
- 03C7 χ greek small letter chi

0250 ⃧ LATIN SMALL LETTER TURNED A
  • low central unrounded vowel
  • uppercase is 2C6F A

0251 α LATIN SMALL LETTER ALPHA
  = latin small letter script a (1.0)
  • low back unrounded vowel
  • uppercase is 2C6D A
  → 03B1 α greek small letter alpha

0252 α LATIN SMALL LETTER TURNED ALPHA
  • low back rounded vowel
  • uppercase is 2C70 D
  → A664 α latin small letter inverted alpha

0253 ɓ LATIN SMALL LETTER B WITH HOOK
  • implosive bilabial stop
  • Pan-Nigerian alphabet
  • uppercase is 0181 B

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 018E ɉ

0255 ɔ LATIN SMALL LETTER C WITH CURL
  • voiceless alveolo-palatal laminal fricative
  • used in transcription of Mandarin Chinese
  • sound spelled with 015B ʂ in Polish

0256 ɗ LATIN SMALL LETTER D WITH TAIL
  = d retroflex hook
  • voiced retroflex stop
  • uppercase is 0189 D

0257 ɗ LATIN SMALL LETTER D WITH HOOK
  • implosive dental or alveolar stop
  • Ewe, Pan-Nigerian alphabet
  • uppercase is 018A D

0258 ɘ LATIN SMALL LETTER REVERSED E
  • upper-mid central unrounded vowel

0259 ɛ LATIN SMALL LETTER SCHWA
  • mid-central unrounded vowel
  • uppercase is 018F ɇ
  • variant uppercase form 018E ɉ is associated
    with 01DD Ɋ
  → 01DD Ɋ latin small letter turned e
  → 04D9 ø cyrillic small letter schwa

025A ơ LATIN SMALL LETTER SCHWA WITH HOOK
  • rhotacized schwa

025B ɛ LATIN SMALL LETTER OPEN E
  = epsilon
  • lower-mid front unrounded vowel
  • uppercase is 0190 E
  → 03B5 ɛ greek small letter epsilon

025C ɜ LATIN SMALL LETTER REVERSED OPEN E
  • lower-mid central unrounded vowel
  • uppercase is A7AB Ƀ

025D ɹ 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 ʃ 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 dʃ

0260 ɡ LATIN SMALL LETTER G WITH HOOK
  • implosive velar stop
  • uppercase is 0193 G
  → 0067 g latin small letter q

0261 ɠ LATIN SMALL LETTER SCRIPT G
  • voiced velar stop
  • uppercase is A7AC Ɋ

0262 ɡ LATIN SMALL LETTER SMALL CAPITAL G
  • voiced uvular stop

0263 γ LATIN SMALL LETTER GAMMA
  • voiced velar fricative
  • uppercase is 0194 Y
  → 03B3 γ greek small letter gamma

0264 ɣ 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 Ɂ

0266 ɦ LATIN SMALL LETTER H WITH HOOK
  • breathy-voiced glottal fricative
  • uppercase is A77A ɋ
  • uppercase in Nwrdm is 0124 ɋ
  → 02B1 ɦ modifier letter small h with hook

0267 ɧ LATIN SMALL LETTER HENG WITH HOOK
  • voiceless coarticulated velar and palatoalveolar
    fricative
  • “sj” in some Swedish dialects

0268 ɬ LATIN SMALL LETTER I WITH STROKE
  = barred l, i bar
  • high central unrounded vowel
  • uppercase is 0197 I
  • ISO 6438 gives lowercase of 0197 as 026A, not
    0268

0269 ɭ LATIN SMALL LETTER IOTA
  • semi-high front unrounded vowel
  • obsoleted by IPA in 1989
  • preferred use is 026A ɭ latin letter small capital i
  • uppercase is 0196 I
  → 0389 ɭ greek small letter iota
026A LATIN LETTER SMALL CAPITAL I
  • semi-high front unrounded vowel
  • preferred IPA alternate for 0269 ی
  • uppercase is A7AE ḳ
  • glyph should have top and bottom serifs even in sans serif IPA font designs, to avoid confusion with lowercase ی

026B LATIN SMALL LETTER L WITH MIDDLE TILDE
  • velarized voiced alveolar lateral approximant
  • uppercase is 2C62 ᵦ

026C LATIN SMALL LETTER L WITH BELT
  • voiceless alveolar lateral fricative
  • uppercase is A7AB ᵪ

026D LATIN SMALL LETTER L WITH RETROFLEX HOOK
  • voiced retroflex lateral

026E LATIN SMALL LETTER LEZH
  • voiced lateral fricative
  • “dh” in Zulu orthography

026F LATIN SMALL LETTER TURNED M
  • high back unrounded vowel
  • uppercase is 019C IU

0270 LATIN SMALL LETTER TURNED M WITH LONG LEG
  • voiced velar approximant

0271 LATIN SMALL LETTER M WITH HOOK
  • voiced labiodental nasal
  • uppercase is 2C6E MJ

0272 LATIN SMALL LETTER N WITH LEFT HOOK
  • voiced palatal nasal
  • uppercase is 019D N

0273 LATIN SMALL LETTER N WITH RETROFLEX HOOK
  • voiced retroflex nasal

0274 LATIN SMALL LETTER CAPITAL N
  • voiced uvular nasal

0275 LATIN SMALL LETTER BARRED O
  • o bar
  • rounded mid-central vowel, i.e. rounded schwa
  • uppercase is 019F Θ
  → 0388 θ greek small letter theta
  → 0473 θ syllabic small letter fila
  → 04E9 θ syllabic small letter barred o

0276 LATIN SMALL LETTER CAPITAL OE
  • low front rounded vowel
  → 0153 ë latin small ligature oe

0277 LATIN SMALL LETTER CLOSED OMEGA
  • semi-high back rounded vowel
  • obsoleted by IPA in 1989
  → 0AB6 ë greek letter small capital omega

0278 LATIN SMALL LETTER PHI
  • voiceless bilabial fricative
  → 03C6 φ greek small letter phi

0279 LATIN SMALL LETTER TURNED R
  • voiced alveolar approximant
  → 0284 ᶜ modifier letter small turned r

027A LATIN SMALL LETTER TURNED R WITH LONG LEG
  • voiced lateral flap

027B LATIN SMALL LETTER TURNED R WITH HOOK
  • voiced retroflex approximant
  → 0285 ᶝ modifier letter small turned r with hook

027C 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 ř 031D ľ
  • in current use in Gaelic types (as glyph variant of 0072 ř)

027D LATIN SMALL LETTER R WITH TAIL
  • voiced retroflex flap
  • uppercase is 2C64 ṝ

027E LATIN SMALL LETTER R WITH FISHHOOK
  • voiced alveolar flap or tap

027F 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 ꞷ 0329 ꞯ
  • preferred presentation is with a descender

0280 LATIN SMALL CAPITAL R
  • voiced uvular trill
  • Germanic, Old Norse
  • uppercase is 01A6 Đ

0281 LATIN SMALL CAPITAL INVERTED R
  • voiceless uvular fricative or approximant
  → 02B6 ᵥ modifier letter small capital inverted r

0282 LATIN SMALL LETTER S WITH HOOK
  • voiceless retroflex fricative
  • uppercase is A7C5 ų

0283 LATIN SMALL LETTER SH
  • voiceless postalveolar fricative
  • uppercase is 01A9 Š
  → 2228 Š integral

0284 LATIN SMALL LETTER DOTLESS J WITH STROKE AND HOOK
  • implosive palatal stop
  • typographically based on 025F ɿ, not on 0283 Ž

0285 LATIN SMALL LETTER SQUAT REVERSED ESH
  • apical retroflex vowel
  • used by linguists working on Chinese and other Sino-Tibetan languages
  • IPA spelling - 0290 Ꞵ 0329 ꞯ
  • in origin 027F Ꞷ plus the retroflex hook 0322 Ɬ, despite its name
  • preferred presentation is with a descender

0286 LATIN SMALL LETTER ESH WITH CURL
  • palatalized voiceless postalveolar fricative
  • suggested spelling - 0283 ꞷ 02B2 Ʇ

0287 LATIN SMALL LETTER TURNED T
  • dental click (sound of “tsk tsk”)
  • uppercase is A7B1 Ĭ
  → 01CD Ĭ latin letter dental click

0288 LATIN SMALL LETTER T WITH RETROFLEX HOOK
  • voiceless retroflex stop
  • uppercase is 01AE ĵ
  → 1D7E õ latin small capital letter u with stroke
IPA Extensions

028A ☦ LATIN SMALL LETTER UPSILON
- semi-high back rounded vowel
- preferred IPA alternate to 0277 ☦
- uppercase is 01B7 Ǯ
  → 0398 Ά greek capital letter upsilon

028B ☧ LATIN SMALL LETTER V WITH HOOK
= latin small letter script v (1.0)
- voiced labiodental approximant
- uppercase is 01B2 Ǘ
  → 0395 ƛ greek small letter upsilon

028C ☧ LATIN SMALL LETTER TURNED V
= caret, wedge
- lower-mid back unrounded vowel
- uppercase is 0245 ƛ
  → 0398 Ά greek capital letter lamda
  → 2038 Ɣ caret
  → 2227 ѧ logical and

028D ☧ LATIN SMALL LETTER TURNED W
- voiceless rounded labiovelar approximant
  → AB69 ☧ modifier letter small turned w

028E ☧ LATIN SMALL LETTER TURNED Y
- voiced lateral approximant

028F ☧ LATIN LETTER SMALL CAPITAL Y
- semi-high front rounded vowel

0290 ☹ LATIN SMALL LETTER Z WITH RETROFLEX HOOK
- voiced retroflex fricative

0291 ☹ LATIN SMALL LETTER Z WITH CURL
- voiced alveolo-palatal laminal fricative
- sound spelled with 017A ژ in Polish

0292 ☹ LATIN SMALL LETTER EZH
= dram
- voiceless postalveolar fricative
- mistakenly named yogh in Unicode 1.0
- uppercase is 01B7 Ǯ
  → Skolt Sami
  → 021D ژ latin small letter yogh
  → 04E1 ژ cyrillic small letter abkhasian dze
  → 2125 ø ounce sign
  → 1F772 Ʒ alchemical symbol for half dram

0293 ☹ LATIN SMALL LETTER EZH WITH CURL
- palatalized voice postalveolar fricative

0294 ☹ 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 ☹ latin capital letter glottal stop
  → 02C0 ☹ modifier letter glottal stop

0295 ☹ LATIN LETTER PHARYNGEAL VOICED FRICATIVE
= reversed glottal stop
- voiceless pharyngeal fricative
- ain
  → 0189 Ӳ latin small letter eh reversed
  → 02C1 ☹ modifier letter reversed glottal stop

0296 ☹ LATIN LETTER INVERTED GLOTTAL STOP
- lateral click
  → 01C1 Ԁ latin letter lateral click

0297 ☹ LATIN LETTER STRETCHED C
- palatal (or alveolar) click
  → 01C3 ƪ latin letter retroflex click
  → 2201 ☹ complement

IPA characters for disordered speech

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 ☦

029B ☦ LATIN LETTER SMALL CAPITAL G WITH HOOK
- voiced uvular implosive

029C ☦ LATIN LETTER SMALL CAPITAL H
- voiceless epiglottal fricative
  → 1D34 ☦ modifier letter capital h
  → A7F8 ☦ modifier letter capital h with stroke

029D ☺ LATIN SMALL LETTER J WITH CROSSED-TAIL
- voiced palatal fricative
- uppercase is A7B2 ☺

029E ☺ LATIN SMALL LETTER TURNED K
- proposed for velar click
- uppercase is A7B0 ☺
  → withdrawn by IPA in 1970

029F ☹ LATIN SMALL LETTER L WITH HOOK
- velar lateral approximant

02A0 ☺ LATIN SMALL LETTER Q WITH HOOK
- voiceless uvular implosive

02A1 ☺ LATIN LETTER GLOTTAL STOP WITH STROKE
- voiceless epiglottal stop

02A2 ☺ LATIN LETTER REVERSED GLOTTAL STOP WITH STROKE
- voiceless epiglottal fricative

02A3 ☺ LATIN SMALL LETTER DZ DIGRAPH
- voiced dental affricate
  → A666 ☺ latin small letter dz digraph with retroflex hook

02A4 ☻ LATIN SMALL LETTER DZH DIGRAPH
- voiceless postalveolar affricate

02A5 ☻ LATIN SMALL LETTER DZ DIGRAPH WITH CURL
- voiceless alveolo-palatal affricate

02A6 ☻ LATIN SMALL LETTER TS DIGRAPH
- voiceless dental affricate
  → A667 ☻ latin small letter ts digraph with retroflex hook

02A7 ☼ LATIN SMALL LETTER TSH DIGRAPH
- voiceless postalveolar affricate

02A8 ☼ LATIN SMALL LETTER TC DIGRAPH WITH CURL
- voiceless alveolo-palatal affricate

Additions for Sinology

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