# IPA Extensions

**Range: 0250–02AF**

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*ISO/IEC DIS 10646:2026(en) - 7th Edition Draft*

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| | 025 | 026 | 027 | 028 | 029 | 02A |
|---|---|---|---|---|---|---|
| 0 | ɐ 0250 | ɠ 0260 | ɧ 0270 | ʀ 0280 | ʐ 0290 | ʠ 02A0 |
| 1 | ɑ 0251 | ɡ 0261 | ɱ 0271 | ʁ 0281 | ʑ 0291 | ʡ 02A1 |
| 2 | ɒ 0252 | ɢ 0262 | ɲ 0272 | ʂ 0282 | ʒ 0292 | ʢ 02A2 |
| 3 | ɓ 0253 | ɣ 0263 | ɳ 0273 | ʃ 0283 | ʓ 0293 | ʣ 02A3 |
| 4 | ɔ 0254 | ɤ 0264 | ɴ 0274 | ʄ 0284 | ʔ 0294 | ʤ 02A4 |
| 5 | ɕ 0255 | ɥ 0265 | ɵ 0275 | ʅ 0285 | ʕ 0295 | ʥ 02A5 |
| 6 | ɖ 0256 | ɦ 0266 | œ 0276 | ʆ 0286 | ʖ 0296 | ʦ 02A6 |
| 7 | ɗ 0257 | ɧ 0267 | ɷ 0277 | ʇ 0287 | ʗ 0297 | ʧ 02A7 |
| 8 | ɘ 0258 | ɨ 0268 | ɸ 0278 | ʈ 0288 | ʘ 0298 | ʨ 02A8 |
| 9 | ə 0259 | ɩ 0269 | ɹ 0279 | ʉ 0289 | ʙ 0299 | ʩ 02A9 |
| A | ɚ 025A | ɪ 026A | ɺ 027A | ʊ 028A | ɚ 029A | ʪ 02AA |
| B | ɛ 025B | ɫ 026B | ɻ 027B | ʋ 028B | ɡ 029B | ʫ 02AB |
| C | ɜ 025C | ɬ 026C | ɼ 027C | ʌ 028C | ʜ 029C | ʬ 02AC |
| D | ɝ 025D | ɭ 026D | ɽ 027D | ʍ 028D | ʝ 029D | ʭ 02AD |
| E | ɞ 025E | ɮ 026E | ɾ 027E | ʎ 028E | ʞ 029E | ʮ 02AE |
| F | ɟ 025F | ɯ 026F | ɿ 027F | ʏ 028F | ʟ 029F | ʯ 02AF |

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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

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

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

0251 ɑ LATIN SMALL LETTER ALPHA
= latin small letter script a (1.0)
• low back unrounded vowel
• the representative glyph appears like an allograph of Latin "a", but sometimes the character is rendered more like a Greek "α"
• uppercase is 2C6D Ɑ
→ 03B1 α greek small letter alpha

0252 ɒ LATIN SMALL LETTER TURNED ALPHA
• low back rounded vowel
• uppercase is 2C70 Ɒ
→ AB64 ɑ latin small letter inverted alpha

0253 ɓ LATIN SMALL LETTER B WITH HOOK
• implosive bilabial stop
• uppercase is 0181 Ɓ
→ 0431 б cyrillic small letter be

0254 ɔ LATIN SMALL LETTER OPEN O
• typographically a turned c
• lower-mid back rounded vowel
• in older Danish usage "ɔ:" stands for "that is"
• uppercase is 0186 Ɔ
→ 1D10 ɔ latin letter small capital open o
→ 2184 ɔ latin small letter reversed c

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

0257 ɗ 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 ə LATIN SMALL LETTER SCHWA
• mid-central unrounded vowel
• uppercase is 018F Ə
• variant uppercase form 018E Ǝ is associated with 01DD ə
→ 01DD ə latin small letter turned e
→ 04D9 ə cyrillic small letter schwa

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

025B ɛ LATIN SMALL LETTER OPEN E
= epsilon
• lower-mid front unrounded vowel
• uppercase is 0190 Ɛ
→ 03B5 ε greek small letter epsilon
→ 0511 ԑ cyrillic small letter reversed ze

025C ɜ LATIN SMALL LETTER REVERSED OPEN E
= reversed epsilon
• lower-mid central unrounded vowel
• uppercase is A7AB Ɜ
→ 0437 з cyrillic small letter ze
→ 1D08 ᴈ latin small letter turned open e

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
→ 029A ɐ latin small letter closed open e

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 ʤ

0260 ɠ LATIN SMALL LETTER G WITH HOOK
• implosive velar stop
• uppercase is 0193 Ɠ

0261 ɡ LATIN SMALL LETTER SCRIPT G
• voiced velar stop
• uppercase is A7AC Ɡ
→ 0067 g latin small letter g
→ 210A ℊ script small g

0262 ɢ LATIN LETTER SMALL CAPITAL G
• voiced uvular stop

0263 ɣ LATIN SMALL LETTER GAMMA
• voiced velar fricative
• uppercase is 0194 Ɣ
→ 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
• uppercase is A7CB Ɤ

0265 ɥ LATIN SMALL LETTER TURNED H
• voiced rounded palatal approximant
• uppercase is A78D Ɥ

0266 ɦ LATIN SMALL LETTER H WITH HOOK
• breathy-voiced glottal fricative
• uppercase is A7AA Ɦ
• uppercase in Nawdm is 0124 Ĥ
→ 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
→ A727 ʜ latin small letter heng

0268 ɨ LATIN SMALL LETTER I WITH STROKE
= barred i, i bar
- high central unrounded vowel
- uppercase is 0197 Ɨ
- ISO 6438 gives lowercase of 0197 Ɨ as 026A ɪ, not 0268 ɨ
→ 1D7B ᵻ latin small capital letter i with stroke

0269 ɩ 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 Ɩ
→ 0131 ɪ latin small letter dotless i
→ 03B9 ι greek small letter iota
→ A647 ꙇ cyrillic small letter iota
→ 1D6A4 𝚤 mathematical italic small dotless i

026A ɪ LATIN LETTER SMALL CAPITAL I
- semi-high front unrounded vowel
- preferred IPA alternate for 0269 ɩ
- uppercase is A7AE Ɪ
- ISO 6438 gives this as lowercase of 0197 Ɨ instead of 0268 ɨ
- glyph should have top and bottom serifs even in sans serif IPA font designs, to avoid confusion with lowercase l
→ 0131 ɪ latin small letter dotless i

026B ɫ LATIN SMALL LETTER L WITH MIDDLE TILDE
- velarized voiced alveolar lateral approximant
- uppercase is 2C62 Ɫ
→ 0142 ł latin small letter l with stroke
→ AB37 ꬷ latin small letter l with inverted lazy s
→ AB38 ꬸ latin small letter l with double middle tilde

026C ɬ LATIN SMALL LETTER L WITH BELT
- voiceless alveolar lateral fricative
- uppercase is A7AD Ɬ
→ 019A ƚ latin small letter l with bar

026D ɭ LATIN SMALL LETTER L WITH RETROFLEX HOOK
- voiced retroflex lateral
→ A78E ꞎ latin small letter l with retroflex hook and belt

026E ɮ LATIN SMALL LETTER LEZH
- voiced lateral fricative
- "dhl" in Zulu orthography

026F ɯ LATIN SMALL LETTER TURNED M
- high back unrounded vowel
- uppercase is 019C Ɯ
→ A7FA ꟻ latin letter small capital turned m

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

0271 ɱ LATIN SMALL LETTER M WITH HOOK
- voiced labiodental nasal
- uppercase is 2C6E Ɱ
→ 1D86 ᶆ latin small letter m with palatal hook

0272 ɲ LATIN SMALL LETTER N WITH LEFT HOOK
- voiced palatal nasal
- uppercase is 019D Ɲ

0273 ɳ LATIN SMALL LETTER N WITH RETROFLEX HOOK
- voiced retroflex nasal

0274 ɴ LATIN LETTER SMALL CAPITAL N
- voiced uvular nasal

0275 ɵ LATIN SMALL LETTER BARRED O
= o bar
- rounded mid-central vowel, i.e. rounded schwa
- uppercase is 019F Ɵ
→ 03B8 θ greek small letter theta
→ 0473 ѳ cyrillic small letter fita
→ 04E9 ө cyrillic small letter barred o

0276 ɶ LATIN LETTER SMALL CAPITAL OE
- low front rounded vowel
→ 0153 œ latin small ligature oe

0277 ɷ LATIN SMALL LETTER CLOSED OMEGA
- near-close near-back rounded vowel
- obsoleted by IPA in 1989
- preferred use is 028A ʊ latin small letter upsilon
- uppercase is A7DD Ꝡ
→ A7B7 ꝡ latin small letter omega
→ AB65 ω greek letter small capital omega
→ 1DF75 ᷵ latin small letter closed omega with long stem

0278 ɸ LATIN SMALL LETTER PHI
- voiceless bilabial fricative
- this is a non-casing letter
→ 03C6 φ greek small letter phi
→ 03D5 ϕ greek phi symbol
→ 2C77 ⱷ latin small letter tailless phi

0279 ɹ LATIN SMALL LETTER TURNED R
- voiced alveolar approximant
→ 02B4 ʴ modifier letter small turned r

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

027B ɻ LATIN SMALL LETTER TURNED R WITH HOOK
- voiced retroflex approximant
→ 02B5 ʵ modifier letter small turned r with hook

027C ɽ LATIN SMALL LETTER R WITH LONG LEG
- voiced strident apico-alveolar trill
- obsoleted by IPA in 1989
- this sound is spelled with 0159 ř in Czech
- preferred phonetic representation for Czech is 0072 r 031D ◌̝
- in current use in Gaelic types (as glyph variant of 0072 r)
- uppercase is A7E2 Ɽ
→ A783 ꞃ latin small letter insular r
→ A785 ꞅ latin small letter insular s

027D ɾ LATIN SMALL LETTER R WITH TAIL
- voiced retroflex flap
- uppercase is 2C64 Ɽ
→ 2C79 ⱹ latin small letter turned r with tail

027E ɾ LATIN SMALL LETTER R WITH FISHHOOK
- voiced alveolar flap or tap
→ 017F ſ latin small letter long s

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**Sinological extension**

*Sinologists working on Chinese and other Sino-Tibetan languages often use some characters originally adapted by Karlgren from the Swedish Landsmålsalfabetet for the representation of apical vowels. 027F and 0285 are derived from straight and tailed versions of the italic (dotless) long i in that notation, but over time took on their own identity. The character names are misleading.*

027F ɿ LATIN SMALL LETTER REVERSED R WITH FISHHOOK
= long i with left hook
= long leg turned iota (a misnomer)
• apical dental vowel
• IPA spelling - 007A z 0329 ◌̩
• this character is not actually a reversed 027E ɾ
• preferred presentation is with a descender

**IPA extensions**

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

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

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

0283 ʃ LATIN SMALL LETTER ESH
• voiceless postalveolar fricative
• uppercase is 01A9 Σ
→ 222B ∫ integral
→ AB4D ʃ latin small letter baseline esh

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

**Sinological extension**

*The tail on this character ultimately derived from the hooked terminal stroke of an italic (dotless) long i, but its use for an apical retroflex vowel has led to reanalysis as a retroflex hook.*

0285 ʅ LATIN SMALL LETTER SQUAT REVERSED ESH
= long i with left hook and tail
• apical retroflex vowel
• IPA spelling - 0290 ʐ 0329 ◌̩
• this character is not actually a reversed esh
• preferred presentation is with a descender

**IPA extensions**

0286 ʆ LATIN SMALL LETTER ESH WITH CURL
• palatalized voiceless postalveolar fricative
• suggested spelling - 0283 ʃ 02B2 ʲ

0287 ɬ LATIN SMALL LETTER TURNED T
• dental click (sound of "tsk tsk")
• uppercase is A7B1 Ʞ
→ 01C0 ǀ latin letter dental click

0288 ʈ LATIN SMALL LETTER T WITH RETROFLEX HOOK
• voiceless retroflex stop
• uppercase is 01AE Ʈ
→ 01AD ƭ latin small letter t with hook
→ 1DF09 ᶉ latin small letter t with hook and retroflex hook

0289 ʉ LATIN SMALL LETTER U BAR
• high central rounded vowel
• uppercase is 0244 Ʉ
→ 1D7E ᵾ latin small capital letter u with stroke

028A ʊ LATIN SMALL LETTER UPSILON
• near-close near-back rounded vowel
• typographically, a turned Greek small capital omega AB65 ꭥ
• preferred IPA alternate to 0277 ω
• uppercase is 01B1 Ʊ
→ 03C5 υ 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 Ʋ
→ 03C5 υ greek small letter upsilon

028C ʌ LATIN SMALL LETTER TURNED V
= caret, wedge
• lower-mid back unrounded vowel
• uppercase is 0245 Λ
→ 039B Λ greek capital letter lamda
→ 1D27 ʌ greek letter small capital lamda
→ 2227 ∧ 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 ʏ LATIN LETTER SMALL CAPITAL Y
• semi-high front rounded vowel

0290 ʐ LATIN SMALL LETTER Z WITH RETROFLEX HOOK
• voiced retroflex fricative

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

0292 ʒ LATIN SMALL LETTER EZH
= dram sign
• voiced postalveolar fricative
• mistakenly named yogh in Unicode 1.0
• uppercase is 01B7 Ʒ
• Skolt Sami
→ 021D ȝ latin small letter yogh
→ 04E1 ӡ cyrillic small letter abkhasian dze
→ 2125 ℥ ounce sign
→ 1F772 🝲 alchemical symbol for half dram
→ 2CF01 ⳁ

0293 ʓ 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 Ɂ latin capital letter glottal stop
→ 02C0 ˀ modifier letter glottal stop

0295 ʕ LATIN LETTER PHARYNGEAL VOICED FRICATIVE
= reversed glottal stop
• voiced pharyngeal fricative
• ain
→ 01B9 ƹ latin small letter ezh reversed
→ 02C1 ˁ modifier letter reversed glottal stop
→ A7CF ꟏ latin small letter pharyngeal voiced fricative

0296 ʖ LATIN LETTER INVERTED GLOTTAL STOP
• lateral click
→ 01C1 ǁ latin letter lateral click

0297 ʗ LATIN LETTER STRETCHED C
• palatal (or alveolar) click
→ 01C3 ǃ latin letter retroflex click
→ 2201 ∁ complement

0298 ʘ LATIN LETTER BILABIAL CLICK
= bullseye
• this is a non-casing letter
→ 2299 ⊙ circled dot operator
→ A668 Ꙩ cyrillic capital letter monocular o

0299 ʙ LATIN LETTER SMALL CAPITAL B
• bilabial trill
→ 0432 в cyrillic small letter ve

029A ɘ LATIN SMALL LETTER CLOSED OPEN E
= closed epsilon
• lower-mid front rounded vowel
• non-IPA alternate for the preferred 0153 œ
→ 025E ɞ latin small letter closed reversed open e

029B ʛ LATIN LETTER SMALL CAPITAL G WITH HOOK
• voiced uvular implosive

029C ʜ LATIN LETTER SMALL CAPITAL H
• voiceless epiglottal fricative
→ 043D н cyrillic small letter en
→ 1D34 ᴴ modifier letter capital h
→ A7F8 ꟸ modifier letter capital h with stroke

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

029E ʞ LATIN SMALL LETTER TURNED K
• proposed for velar click
• uppercase is A7B0 Ʞ
• withdrawn by IPA in 1970
→ 1DF10 ᴚ latin letter small capital turned k

029F ʟ LATIN LETTER SMALL CAPITAL L
• velar lateral approximant

02A0 ʠ LATIN SMALL LETTER Q WITH HOOK
• voiceless uvular implosive

02A1 ʡ LATIN LETTER GLOTTAL STOP WITH STROKE
• voiced epiglottal stop

02A2 ʢ LATIN LETTER REVERSED GLOTTAL STOP WITH STROKE
• voiced epiglottal fricative

02A3 ʣ LATIN SMALL LETTER DZ DIGRAPH
• voiced dental affricate
→ AB66 ꭦ latin small letter dz digraph with retroflex hook

02A4 ʤ LATIN SMALL LETTER DEZH DIGRAPH
• voiced postalveolar affricate

02A5 ʥ LATIN SMALL LETTER DZ DIGRAPH WITH CURL
• voiced alveolo-palatal affricate

02A6 ʦ LATIN SMALL LETTER TS DIGRAPH
• voiceless dental affricate
→ 01BE ƾ latin letter inverted glottal stop with stroke
→ AB67 ꭧ latin small letter ts digraph with retroflex hook

02A7 ʧ LATIN SMALL LETTER TESH DIGRAPH
• voiceless postalveolar affricate
→ A729 ꜩ latin small letter tz

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

**IPA characters for disordered speech**

02A9 ʩ LATIN SMALL LETTER FENG DIGRAPH
• velopharyngeal fricative

02AA ʪ LATIN SMALL LETTER LS DIGRAPH
• lateral alveolar fricative (lisp)

02AB ʫ LATIN SMALL LETTER LZ DIGRAPH
• voiced lateral alveolar fricative

02AC ʬ LATIN LETTER BILABIAL PERCUSSIVE
• audible lip smack

02AD ʭ LATIN LETTER BIDENTAL PERCUSSIVE
• audible teeth gnashing

**Sinological extensions**

*These characters are derived from straight and tailed versions of the italic turned h in the Swedish Landsmålsalfabetet, but over time took on their own identity.*

02AE ʮ LATIN SMALL LETTER TURNED H WITH FISHHOOK
= turned h with left hook
• labialized apical dental vowel
→ 0265 ɥ latin small letter turned h

02AF ʯ LATIN SMALL LETTER TURNED H WITH FISHHOOK AND TAIL
= turned h with left hook and tail
• labialized apical retroflex vowel

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