

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 17.0*

This file may be changed at any time without notice to reflect errata, or other updates 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-17.0/> for charts showing only the characters added in Unicode 17.0. See <https://www.unicode.org/Public/17.0.0/charts/> for a complete archived file of character code charts for Unicode 17.0. 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 17.0 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 17.0, online at <https://www.unicode.org/versions/Unicode17.0.0/>, as well as the Unicode Standard Annexes, 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.

Fonts

The shapes of the reference glyphs used in these code charts are not prescriptive. Considerable variation is to be expected in actual fonts.

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

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	025	026	027	028	029	02A
0	ɐ 0250	ɟ 0260	ɥ 0270	ʀ 0280	ʐ 0290	ɕ 02A0
1	ɑ 0251	ɡ 0261	ɱ 0271	ʁ 0281	ʑ 0291	ʒ 02A1
2	ɒ 0252	ɢ 0262	ɲ 0272	ʂ 0282	ʑ 0292	ɕ 02A2
3	ɓ 0253	ɣ 0263	ɳ 0273	ʃ 0283	ʒ 0293	ɕ 02A3
4	ɔ 0254	ɤ 0264	ɴ 0274	ʃ 0284	ʐ 0294	ɕ 02A4
5	ɛ 0255	ɥ 0265	ɵ 0275	ɺ 0285	ɿ 0295	ɕ 02A5
6	ɖ 0256	ɦ 0266	æ 0276	ɹ 0286	ɻ 0296	ɕ 02A6
7	ɗ 0257	ħ 0267	ω 0277	ɺ 0287	ɿ 0297	ɕ 02A7
8	ə 0258	ɨ 0268	ɸ 0278	ɺ 0288	ɿ 0298	ɕ 02A8
9	ə 0259	ɺ 0269	ɺ 0279	ɺ 0289	ɿ 0299	ɕ 02A9
A	ɶ 025A	ɺ 026A	ɺ 027A	ɺ 028A	ɿ 029A	ɕ 02AA
B	ɛ 025B	ɺ 026B	ɺ 027B	ɺ 028B	ɿ 029B	ɕ 02AB
C	ɛ 025C	ɺ 026C	ɺ 027C	ɺ 028C	ɿ 029C	ɕ 02AC
D	ɶ 025D	ɺ 026D	ɺ 027D	ɺ 028D	ɿ 029D	ɕ 02AD
E	ɶ 025E	ɺ 026E	ɺ 027E	ɺ 028E	ɿ 029E	ɕ 02AE
F	ɶ 025F	ɺ 026F	ɺ 027F	ɺ 028F	ɿ 029F	ɕ 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

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 Ƶ
- 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 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 ɸ **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 Ɗ
- 0257 ɗ **LATIN SMALL LETTER D WITH HOOK**
 - implosive dental or alveolar stop
 - Ewe, Pan-Nigerian alphabet
 - uppercase is 018A Ɗ
- 0258 ɛ̃ **LATIN SMALL LETTER REVERSED E**
 - upper-mid central unrounded vowel

- 0259 ə **LATIN SMALL LETTER SCHWA**
 - mid-central unrounded vowel
 - uppercase is 018F Ǝ
 - variant uppercase form 018E Ǝ is associated with 01DD ǝ
 - 01DD ǝ latin small letter turned e
 - 04D9 ǝ cyrillic small letter schwa
- 025A ɶ **LATIN SMALL LETTER SCHWA WITH HOOK**
 - rhotacized schwa
- 025B ɛ̥ **LATIN SMALL LETTER OPEN E**
 - = epsilon
 - lower-mid front unrounded vowel
 - uppercase is 0190 Ǝ
 - 03B5 ε greek small letter epsilon
 - 0511 ɛ cyrillic small letter reversed ze
- 025C ɜ̥ **LATIN SMALL LETTER REVERSED OPEN E**
 - = reversed epsilon
 - lower-mid central unrounded vowel
 - uppercase is A7AB Ʒ
 - 0437 ɜ cyrillic small letter ze
 - 1D08 ɜ latin small letter turned open e
- 025D ɜ̥ **LATIN SMALL LETTER REVERSED OPEN E WITH HOOK**
 - rhotacized lower-mid central vowel
- 025E ɞ̥ **LATIN SMALL LETTER CLOSED REVERSED OPEN E**
 - = closed reversed epsilon
 - lower-mid central rounded vowel
 - 029A ɞ 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 ɟ͡ʝ
- 0260 ɡ̥ **LATIN SMALL LETTER G WITH HOOK**
 - implosive velar stop
 - uppercase is 0193 Ƣ
- 0261 ɡ̥ **LATIN SMALL LETTER SCRIPT G**
 - voiced velar stop
 - uppercase is A7AC Ƣ
 - 0067 ɡ latin small letter g
 - 210A ɡ̥ script small g
- 0262 ɢ **LATIN LETTER SMALL CAPITAL G**
 - voiced uvular stop
- 0263 ɣ̥ **LATIN SMALL LETTER GAMMA**
 - voiced velar fricative
 - uppercase is 0194 Ƴ
 - 03B3 γ greek small letter gamma
- 0264 ɣ̥ **LATIN SMALL LETTER RAMS HORN**
 - = latin small letter baby gamma (1.0)
 - upper-mid back unrounded vowel
 - uppercase is A7CB Ƴ
- 0265 ɥ̥ **LATIN SMALL LETTER TURNED H**
 - voiced rounded palatal approximant
 - uppercase is A78D Ƴ
- 0266 ɦ̥ **LATIN SMALL LETTER H WITH HOOK**
 - breathy-voiced glottal fricative
 - uppercase is A7AA Ƴ
 - uppercase in Nawdm is 0124 ɦ̥
 - 02B1 ɦ̥ modifier letter small h with hook

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 ɿ
 • this character is not actually a reversed 027E r
 • 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 ɣ LATIN LETTER SMALL CAPITAL INVERTED R
 • voiced uvular fricative or approximant
 → 02B6 ɣ modifier letter small capital inverted r
- 0282 ʂ LATIN SMALL LETTER S WITH HOOK
 • voiceless retroflex fricative
 • uppercase is A7C5 ʂ
- 0283 Ƀ LATIN SMALL LETTER ESH
 • voiceless postalveolar fricative
 • uppercase is 01A9 Ƀ
 → 222B Ƀ integral
 → AB4D Ƀ latin small letter baseline esh
- 0284 Ʉ LATIN SMALL LETTER DOTLESS J WITH STROKE AND HOOK
 • implosive palatal stop
 • typographically based on 025F Ʉ, not on 0283 Ƀ

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

IPA extensions

- 0286 ɹ LATIN SMALL LETTER ESH WITH CURL
 • palatalized voiceless postalveolar fricative
 • suggested spelling - 0283 ɹ 02B2 ɹ
- 0287 ɻ LATIN SMALL LETTER TURNED T
 • dental click (sound of "tsk tsk")
 • uppercase is A7B1 ɻ
 → 01C0 ɻ latin letter dental click
- 0288 ɽ LATIN SMALL LETTER T WITH RETROFLEX HOOK
 • voiceless retroflex stop
 • uppercase is 01AE ɽ
 → 01AD ɽ latin small letter t with hook
 → 1DF09 ɽ 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 ʉ 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 ʊ
 • preferred IPA alternate to 0277 ʊ
 • uppercase is 01B1 ʊ
 → 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 ʋ
 → 03C5 ʋ greek small letter upsilon
- 028C ʌ LATIN SMALL LETTER TURNED V
 = caret, wedge
 • lower-mid back unrounded vowel
 • uppercase is 0245 ʌ
 → 039B ʌ greek capital letter lamda
 → 1D27 ʌ greek letter small capital lamda
 → 2227 ʌ logical and
- 028D ʍ LATIN SMALL LETTER TURNED W
 • voiceless rounded labiovelar approximant
 → AB69 ʍ modifier letter small turned w
- 028E ɰ LATIN SMALL LETTER TURNED Y
 • voiced lateral approximant
- 028F ʏ LATIN LETTER SMALL CAPITAL Y
 • semi-high front rounded vowel
- 0290 ɀ LATIN SMALL LETTER Z WITH RETROFLEX HOOK
 • voiced retroflex fricative
- 0291 Ɂ LATIN SMALL LETTER Z WITH CURL
 • voiced alveolo-palatal laminal fricative
 • sound spelled with 017A Ɂ in Polish
- 0292 ɂ LATIN SMALL LETTER EZH
 = dram sign
 • voiced postalveolar fricative
 • mistakenly named yogh in Unicode 1.0
 • uppercase is 01B7 ɂ
 • Skolt Sami
 → 021D ɂ latin small letter yogh
 → 04E1 ɂ cyrillic small letter abkhasian dze
 → 2125 ɂ ounce sign
 → 1F772 ɂ alchemical symbol for half dram
 → 2CF01 ɂ
- 0293 Ƀ 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
 → A7CF ʕ latin small letter pharyngeal voiced fricative

0296 Ƀ **LATIN LETTER INVERTED GLOTTAL STOP**
• lateral click
→ 01C1 Ɂ latin letter lateral click

0297 Ʉ **LATIN LETTER STRETCHED C**
• palatal (or alveolar) click
→ 01C3 Ɂ latin letter retroflex click
→ 2201 Ʉ complement

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

0299 Ɇ **LATIN LETTER SMALL CAPITAL B**
• bilabial trill
→ 0432 Ɇ cyrillic small letter ve

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

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

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

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

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

029F Ɍ **LATIN LETTER SMALL CAPITAL L**
• velar lateral approximant

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

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

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

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

02A4 ɐ̦ **LATIN SMALL LETTER DEZH DIGRAPH**
• voiced postalveolar affricate

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

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

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

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

IPA characters for disordered speech

02A9	fj	LATIN SMALL LETTER FENG DIGRAPH	• velopharyngeal fricative
02AA	ks	LATIN SMALL LETTER LS DIGRAPH	• lateral alveolar fricative (lisp)
02AB	lz	LATIN SMALL LETTER LZ DIGRAPH	• voiced lateral alveolar fricative
02AC	w	LATIN LETTER BILABIAL PERCUSSIVE	• audible lip smack
02AD	𐀀	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 ɥ LATIN SMALL LETTER TURNED H WITH FISHHOOK
= turned h with left hook
• labialized apical dental vowel

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