# **Brill Typeface Version 4.0 Character List**

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July 13, 2021

Corrected version: May 12, 2022

## Introduction to the 'Brill' v. 4.0 Upgrade

#### **About this Document**

This document accompanies the release version 4.0 – build 073, TrueType format – of the 'Brill' typeface family on brill.com. This is a large and significant upgrade of the 'Brill' fonts which delivers bug fixes, more characters, support for more subject areas and languages, and extended OpenType features.

You will find in these pages general information regarding the character set, some remarks on OpenType features functionality, and information on technical font formats. A more extended manual will be made available later on which will provide more details on OpenType features.

A Complete List of Characters follows the introductory pages.

In an Appendix, there is a list of the characters that were added in version 4.0.

#### **Upgrade Summary**

The upgrade from Brill typeface version 2.0x to 4.0 broadly speaking entails the following:

- 1. Extension of the character set, resulting in a much larger glyph set (from over 5,100 to over 6,000 glyphs per font, an increase of 18%)
- 2. Refinement and extension of OpenType features

### The Brill Typeface Version 4.0 Upgrade in More Detail

1.1.

The majority of Latin and phonetic characters which have been incorporated in the Unicode Standard since 2012 have been added to the 'Brill' fonts. Not included: characters whose use is limited to extremely specialized dialectology atlases, because such characters are not expected to occur in Brill publications.

So the Latin script as defined in the Unicode Standard is not covered in its entirety by the Brill fonts, but they come very close.

1.2.

A few punctuation marks were added, such as the 'punctus elevatus' (medieval studies); and a few spacing modifier letters, such as the Chinantec tone marks.

1.3.

The set of symbols was greatly extended in order to provide fuller support for theoretical linguistics and philosophical logic.

1.4

Expansion of Old Cyrillic support, specifically to render Old Russian texts. This expansion does not aim at rendering Old Slavonic, although there is some overlap. But Old Slavonic would require a wholly different type style.

1.5.

Addition of Cyrillic characters to support Turkic Cyrillic orthographies.

(The 'Brill' Cyrillic character set has become much more extensive in 2021, but it still does not support Iranian, many Caucasian and Siberian orthographies. Should Brill's list expand to cover these, the 'Brill' Cyrillic support might be enhanced at a future date.)

2.1.

Addition of many OpenType superiors and inferiors. These bring improvements to linguistic text and to transliterations of cuneiform.

2.2.

Workaround for a serious bug in Adobe InDesign which has impacted the use of combining characters in earlier versions of the Brill fonts for ten years. When the base character is a precomposed character (such as  $\bar{a}$ , U+0101) and one or more combining characters are added (such as  $\acute{o}$ , U+0301), the combining character would intersect the diacritic of the precomposed character instead of being positioned above it. In 'Brill' v. 4.0, this does not happen anymore through the addition of extra OpenType code.

2.3.

More 'locl' OpenType language features. Specialised typographic support is now available for Albanian (in the Greek script), Catalan, Chinantec, Dutch, IPA Phonetics, Lithuanian, Macedonian (Cyrillic), Moldavian, Romanian, Serbian (Cyrillic), Turkish. Applications may or may not support language features.

# **Complete List of Characters**

Latin		
Hex.	cha	r. Notes
0061	a	
	a	instead of a: apply Stylistic Set 20 (as well as the italic font)
ooAA	a	feminine ordinal; do not confuse with a, 1D43, modifier letter small a
1D43	a	modifier letter small a; linguistic use; do not confuse with a, ooAA, feminine ordinal
1D2C	A	modifier letter capital A; linguistic use
1D00	A	small capital a; linguistic use only
2090	a	subscript lowercase a
0363	Ö	combining small letter a
0250	B	IPA open-mid schwa; uppercase is V, 2C6F
1D44	в	modifier letter small turned a; linguistic use
0251	a	IPA open back unrounded; uppercase is Q, 2C6D
1D45	α	modifier letter small alpha; linguistic use
0252	υ	IPA open back rounded; uppercase is D, 2C70
AB64	a	Latin small letter inverted alpha; Americanist phonetic notation
1D9B	υ	modifier letter small turned alpha; superscript; linguistic use only
1D51E	a	Fraktur (black letter) lowercase a; used as a symbol only
249C	(a)	parenthesized Latin lowercase a; used as a symbol only
<b>24</b> Do	a	circled Latin lowercase a; used as a symbol only
0040	@	commercial at, at sign
1D2D	Æ	modifier letter capital Æ; linguistic use
1D46	æ	modifier letter small turned æ; linguistic use
00E1	á	
ooEo	à	
00 <b>E</b> 2	â	
00E4	ä	
ooE3	ã	
0101	ā	
0103	ă	
O1CE	ă	
00E5	å	
0201	à	
0203	â	
0227	à	
1E9A	ả	no uppercase; see also à, Latin small letter glottal a, A7BB, used in Ugaritic
		transcription

```
1EA3
       å
            see also à, Latin small letter glottal a, A7BB, used in Ugaritic transcription
A<sub>7</sub>BB å
            Latin small letter glottal a; used to transcribe the Ugaritic cuneiform letter →;
            uppercase is 'A, A7BA
2C65
        Ą
0105
        ą
1EA1
        ą
1E01
        å
1D8F
            lowercase a with retroflex hook
        a.
1D90
            lowercase Latin alpha with retroflex hook
       α
1EA5
       ấ
1EA7
       à
1EAB
       ã
        å
1EA9
1EAF
        å
1EB1
        à
       ã
1EB5
        å
1EB3
       ā
o<sub>1</sub>DF
        å
01FB
        ā
01E1
1EAD
       â
1EB7
        ă
            lowercase aa; medievalist use
A733
       æ
ooE6
       æ
            IPA raised open front unrounded
1D01
            small capital æ; linguistic use only
       Æ
1D02
            small letter turned æ
        æ
1DD4
       Ĉ
            combining small letter æ
o<sub>1</sub>FD
       æ
01E3
        æ
            lowercase ao; medievalist use
A735
       æ
1DD5
       ္မ
            combining small letter ao
            lowercase au; medievalist use
A737
       aı
            lowercase av; medievalist use
A739
       a
ıDD6
       °
            combining small letter av
            lowercase av with horizontal bar; medievalist use
A73B
       æ
            lowercase ay; medievalist use
A73D
       a/
0041
       A
2C6F
       ¥
            lowercase is e, 0250
2C6D (1
            lowercase is a, 0251
2C70
       D
            lowercase is p, 0252
```

```
1D504 U
           Fraktur (black letter) uppercase A; used as a symbol only
24B6
       (A)
           circled Latin uppercase A; used as a symbol only
       Á
ooC1
ooCo À
ooC2 Â
ooC4 Ä
ooC3 Ã
       Ā
0100
       Ă
0102
       Ă
01CD
       Å
ooC5
       Å
212B
           Ångström sign; preferred encoding is Å, ooC5
       À
0200
      Â
0202
       À
0226
       Å
1EA2
           see also 'A, Latin capital letter glottal A, A7BA, used in Ugaritic transcription
A<sub>7</sub>BA 'A
           Latin capital letter glottal A; used to transcribe the Ugaritic cuneiform letter →;
           lowercase is à, A7BB
023A
       A
0104
       Ą
1EAo
       Ą
1E00
       A
1EA4
       Â
       À
ıEA6
ıEAA Â
       Â
1EA8
oıDE Ä
1EAE
      Å
       Ă
1EBo
       Ã
1EB4
       Å
1EB2
       Å
01FA
       Ā
oıEo
       Â
1EAC
ıEB6
       Ă
       A
           uppercase AA; medievalist use
A732
ooC6
      Æ
           see also Æ, modifier letter capital Æ, 1D2D
       Æ
01FC
       Æ
01E2
       AO uppercase AO; medievalist use
A734
```

```
A736
       A uppercase AU; medievalist use
A738 N
             uppercase AV; medievalist use
A73A H
            uppercase AV with horizontal bar; medievalist use
            uppercase AY; medievalist use
A<sub>73</sub>C N
0062
       b
        b
1D47
            modifier letter small b; linguistic use
        В
1D2E
             modifier letter capital B; linguistic use
             small capital; linguistic use only: IPA voiced bilabial trill
0299
1D03
             small capital barred b; linguistic use only
        В
1D2F
            modifier letter capital barred B; linguistic use
            Latin small letter beta: IPA voiced bilabial fricative; also used in Gabonese
A<sub>7</sub>B<sub>5</sub>
             orthographies; uppercase is B, A<sub>7</sub>B<sub>4</sub>;
             formerly, lowercase Greek beta β, 03B2, was given a 'Latin' shape by applying Stylistic
             Set 20: \beta; but A7B5 is now the preferred character
1D5D
            modifier letter small beta; linguistic use
1D66
             Greek subscript small letter beta; linguistic use
1D51F
             Fraktur (black letter) lowercase b; used as a symbol only
        (b) parenthesized Latin lowercase b; used as a symbol only
249D
24D1
            circled Latin lowercase b; used as a symbol only
        b
1E03
        6
0253
             IPA voiced bilabial implosive; uppercase is B, 0181
        Б
0183
             uppercase is 5, 0182
0180
        ħ
             uppercase is B, 0243
1D6C
        b
             small letter b with middle tilde
        b
1E05
1E07
        b
            lowercase b with palatal hook
1D80
        b
             used in rendering Middle Vietnamese; uppercase is B, A796
A797
        ф
0185
        b
            uppercase is b, 0184
        В
0042
A<sub>7</sub>B<sub>4</sub>
        В
             Latin capital letter Beta; lowercase is β, A<sub>7</sub>B<sub>5</sub>; used in Gabonese orthographies;
1D505 B
             Fraktur (black letter) uppercase B; used as a symbol only
        (B)
            circled Latin uppercase B; used as a symbol only
24B7
        Ė
1E02
        В
0181
            lowercase is 6, 0253
0182
        Б
            lowercase is 5, 0183
        ₿
            lowercase is b, 0180
0243
1E04
        B
1E06
        В
        В
             used in rendering Middle Vietnamese; lowercase is b, A797
A796
```

```
0184
        ь
            lowercase is b, 0185
0063
        c
        c
1D9C
             modifier letter lowercase c; superscript; linguistic use only
             small capital; linguistic use only
1D04
             copyright sign; do not confuse with ©, 24B8, circled Latin uppercase C
ooAg
        (C)
0368
        င်
             combining small letter c
             open o = IPA open-mid back rounded; typographically a turned c; uppercase is 2, 0186
0254
        Э
1D10
             small capital open o: typographically a turned c; linguistic use only
        С
A<sub>73</sub>F
            lowercase reversed c with dot; medievalist use
        Э
            lowercase open o with retroflex hook
1D97
        Ç
             stretched c: formerly the IPA postalveolar click; see also \(\dagger\), 01C2, and \(\dagger\), 01C3
0297
        C
             Fraktur (black letter) lowercase c; used as a symbol only
1D520 C
        (c) parenthesized Latin lowercase c; used as a symbol only
249E
24D2
        (c)
            circled Latin lowercase c; used as a symbol only
        ć
0107
        ĉ
0109
oıoD
        ċ
010B
0188
        ď
            lowercase c with stroke; linguistic use; do not confuse with ¢, ooA2, cent sign
023C
        ¢
00A2
        ¢
             cent sign; do not confuse with \varphi, 023C, lowercase c with stroke
             Latin small letter c with bar; linguistic use; uppercase is €, A792, scientific Cambrian
A793
        €
             symbol; do not confuse with \epsilon, 0454, Cyrillic small letter Ukrainian ie
ooE7
            lowercase c with cedilla; IPA voiceless palatal fricative
1DD7
            combining small letter c cedilla
            IPA voiceless alveolopalatal fricative; no uppercase
0255
        Ç
             modifier letter lowercase c with curl; superscript; linguistic use only
1D9D
            Latin small letter c with palatal hook; used in Lithuanian dialectology; uppercase is C,
A794
        Ç
            A<sub>7</sub>C<sub>4</sub>
        ć
1E09
        \mathbf{C}
0043
0186
        С
             open o: typographically a turned C; lowercase is 2, 0254
        Э
             uppercase reversed C with dot; medievalist use
A73E
212D
        \mathfrak{C}
             Fraktur (black letter) uppercase C; used as a symbol only
        (C)
            circled Latin uppercase C; used as a symbol only; compare ©, ooA9, copyright sign,
24B8
             with which it should not be confused
        Ć
0106
0108
        Č
010C
        Ċ
010A
```

```
C
0187
023B
        \boldsymbol{\mathcal{C}}
        €
             Latin capital letter C with bar; scientific Cambrian symbol; lowercase is \epsilon, A793, which
A792
             has linguistic applications; do not confuse with E, 0404, Cyrillic capital letter
             Ukrainian IE
ooC7
        Ç
A<sub>7</sub>C<sub>4</sub>
        C
             Latin capital letter C with palatal hook; used in early Pinyin romanization; lowercase
             is c, A794
        Ć
1E08
        d
0064
        d
1D48
             modifier letter small d; linguistic use
        D
1D30
             modifier letter capital D; linguistic use
             small capital; linguistic use only
1D05
0369
        å
             combining small letter d
1DD8
             combining small letter insular d
        δ
             Latin small letter delta
1E9F
             modifier letter small delta; linguistic use
1D5F
018D
             Latin small letter turned delta
ooFo
        ð
             lowercase eth; IPA voiced dental fricative
1Do6
             small capital eth; linguistic use only
        ð
1D9E
             modifier letter small eth; superscript; linguistic use only
        ំ
             combining small letter eth
1DD9
1D521
        b
             Fraktur (black letter) lowercase d; used as a symbol only
249F
        (d) parenthesized Latin lowercase d; used as a symbol only
        (d)
            circled Latin lowercase d; used as a symbol only
24D3
        ď
             uppercase is Ď, 010E
0.0F
        đ
             uppercase is D, 0110; compare uppercase eth: D, 00D0; and African D: D, 0189
0111
1D6D
        đ
             small letter d with middle tilde
        à
1EoB
        ď
0257
             IPA voiced alveolar implosive; uppercase is D, 018A
             lowercase d with hook and tail
1D91
        ď
018C
        a
             d with topbar; uppercase is 3, 018B
        d_{\!\scriptscriptstyle L}
             lowercase abbreviation dum
A771
1EoD
        d
        d
1EoF
        d
1E11
1E13
        ģ
0256
        d
             African D, uppercase is Đ, 0189; IPA voiced retroflex plosive; compare uppercase eth:
             \Theta, ooDo; and \Theta, ono, uppercase from \Phi, on
        d
             no uppercase
0221
```

```
1D81
            lowercase d with palatal hook
        d
0238
       ф
            db digraph; no uppercase
02A3
       dz
           dz digraph; no uppercase
02A5
            dz digraph with curl; no uppercase
        ďг
AB66
       dz Latin small letter dz digraph with retroflex hook; no uppercase; used in Sinological
            and Tibetanist transcriptions
02A4
        ďζ
            dezh digraph; IPA voiced postalveolar affricate; no uppercase
o<sub>1</sub>F<sub>3</sub>
            with initial cap Dz, o1F2; all-uppercase is DZ, o1F1
01C6
        dž
            with initial cap Dž, 01C5; all-uppercase is DŽ, 01C4
0044
        D
       \mathfrak{D}
1D507
            Fraktur (black letter) uppercase D; used as a symbol only
            circled Latin uppercase D; used as a symbol only
24B9
       Ď
010E
            lowercase is d', 010F
1EoA
       Ď
018A
        D
            lowercase is d, 0257
018B
            D with topbar; lowercase is d, 018C
        Б
       Đ
            uppercase eth, lowercase is ð, ooFo; compare uppercase Đ from đ, 0110; and African D,
ooDo
            Ð, 0189
        Ð
            lowercase is d, 0111; compare uppercase eth: Đ, 00Do; and African D, Đ, 0189
0110
0189
            lowercase is d, 0256; African D; compare uppercase D from d, 0110; and uppercase eth:
            Đ, ooDo
        D
1EoC
1EoE
        D
1E10
        Ď
        D
1E12
01F2
        Dz with initial cap; all-uppercase is DZ, o1F1; lowercase is dz, o1F3
01F1
        DZ all-uppercase; with initial cap Dz, 01F2; lowercase is dz, 01F3
            with initial cap; all-uppercase is DŽ, o1C4; lowercase is dž, o1C6
01C5
        DŽ all-uppercase; with initial cap Dž, o1C5; lowercase is dž, o1C6
01C4
0065
        e
        e
1D49
            modifier letter small e; linguistic use
        E
            modifier letter capital E; linguistic use
1D31
1D07
            small capital; linguistic use only
            subscript lowercase e
2091
0364
        ំ
            combining small letter e
            pan-Nigerian alphabet; uppercase is 3, 018E; compare Azerbaijani and linguistic ə,
01DD
       Э
            0259 and its uppercase \theta, 018F
0259
            Azerbaijani, and linguistic use (IPA) for šwa; uppercase is \partial, 018F; compare Pan-
            Nigerian ə, 01DD and its uppercase ∃, 018E
```

1D4A

modifier letter small schwa; linguistic use

```
1D32
            modifier letter capital reversed E; linguistic use
            subscript lowercase šwa
2094
           šwa with hook; IPA rhotacized šwa; no uppercase
025A
           lowercase šwa with retroflex hook
1D95
            reversed e; IPA close-mid šwa; no uppercase
0258
            Latin lowercase open e = Latin epsilon; IPA open-mid front unrounded; linguistic use
025B
       3
            only, not for Greek text; uppercase is E, 0190
            modifier letter small open e; linguistic use
1D4B
1D93
           lowercase open e with retroflex hook
       ξ
            reversed open e; IPA open-mid central; uppercase is 3, A7AB
025C
1D9F
            modifier letter small reversed open e; superscript; linguistic use only
            small letter turned open e
1Do8
            modifier letter small turned open e; linguistic use
1D4C
1D94
            lowercase reversed open e with retroflex hook
            reversed open e with hook; IPA rhotacized open-mid central; no uppercase
025D
       ვ∘
            closed reversed open e; IPA open-mid central rounded; no uppercase
025E
       в
            closed open e = closed epsilon; no uppercase
029A
      Θ
            Fraktur (black letter) lowercase e; used as a symbol only
1D522 e
24Ao
       (e) parenthesized Latin lowercase e; used as a symbol only
           circled Latin lowercase e; used as a symbol only
24D4 (e)
ooE9
       é
ooE8
       è
ooEA ê
ooEB
       ë
1EBD
       ẽ
       ē
0113
       ĕ
0115
       ě
011B
0205
       è
       ê
0207
       ė
0117
1EBB
       é
2C78
            UPA lowercase e with notch
       e.
0247
       ¢
0119
1EB9
0229
       ę
1E19
       ę
1E1B
       ę
           lowercase e with retroflex hook
1D92
```

```
é
1EBF
       è
1EC1
1EC5
       ê
1EC3
       ể
1EC7
       ê
       é
1E17
       è
1E15
1E1D
       ĕ
0045
       E
018E
       \mathbf{E}
            Pan-Nigerian alphabet; lowercase is ə, o1DD; compare Azerbaijani and linguistic Ə,
            018F and its lowercase 9, 0259
018F
            Azerbaijani, and linguistic use, šwa; lowercase is ə, 0259; compare Pan-Nigerian 3,
       G
            018E and its lowercase ə, 01DD
ıD508 €
            Fraktur (black letter) uppercase E; used as a symbol only
       (E) circled Latin uppercase E; used as a symbol only
24BA
            linguistic use only, not for Greek text; lowercase is \epsilon, 025B
0190
       3
A7AB 3
            Latin capital letter reversed open E; lowercase is 3, 025C
20AC €
            Euro sign
212E
       \mathbf{e}
            estimated symbol, used in European packaging
       É
ooC9
      È
ooC8
ooCA Ê
ooCB Ë
       Ĕ
1EBC
       Ē
0112
       Ĕ
0114
       Ě
011A
       Ë
0204
       Ê
0206
       Ė
0116
       É
1EBA
       E
0246
0118
       Ę
       Ė
ıEB8
       Ę
0228
       Ě
1E18
       Ē
1E1A
       É
1EBE
       È
1ECo
       Ê
1EC4
```

```
Ê
1EC2
        Ê
1EC6
        É
1E16
        È
1E14
1E1C
        f
0066
        f
             instead of f: apply Stylistic Set 20 (as well as the italic font)
        £
            Latin small letter f with stroke; used in Old Ewe orthography and in German
A799
             dialectology; uppercase is F, A798
             small capital f; medievalist use
A730
        F
            lowercase Greek wau (or digamma)
o<sub>3</sub>DD
       F
            Claudian turned lowercase f; uppercase is 4, 2132
214E
1DAo
       f
            modifier letter small f; superscript; linguistic use only
0192
        f
            lowercase f with hook; Dutch florin (guilder); uppercase is F, 0191; do not confuse with
            lowercase abbreviation is, f, A<sub>7</sub>6D, or with lowercase dotless j with stroke and hook, f,
             0284
             turned f, used as Latin small letter dotless j with stroke; IPA voiced palatal plosive; no
025F
            uppercase
1DA1
        j
             modifier letter small dotless j with stroke; superscript; linguistic use only
            Latin small letter phi; IPA voiceless bilabial fricative; not the same as Greek \varphi, 03C6;
0278
        ф
             not phi symbol, φ, 03D5; no uppercase
        ф
             modifier letter small phi; superscript; linguistic use only
1DB2
             modifier letter small Greek phi; linguistic use
1D60
1D69
             Greek subscript small letter phi; linguistic use
             UPA lowercase tailless phi
2C77
        Φ
             Fraktur (black letter) lowercase f; used as a symbol only
1D523
        (f) parenthesized Latin lowercase f; used as a symbol only
24A1
            circled Latin lowercase f; used as a symbol only
24D5
        Ė
1E1F
        £
             small letter f with middle tilde
1D6E
1D82
            lowercase f with palatal hook
FB00
        ff
            lowercase ligature ff; do not use: this character is only present for legacy purposes
            lowercase ligature ffi; do not use: this character is only present for legacy purposes
FB<sub>03</sub>
        ffi
        ffl
            lowercase ligature ffl; do not use: this character is only present for legacy purposes
FB04
            lowercase ligature fi; do not use: this character is only present for legacy purposes
FB<sub>01</sub>
        fi
FB02
        fl
            lowercase ligature fl; do not use: this character is only present for legacy purposes
02A9
        fη
            feng digraph; no uppercase
0046
        F
             compare, but do not confuse with, F, o3DC, uppercase Greek Wau (or Digamma)
A798
        F
             Latin capital letter F with stroke; used in Old Ewe orthography; lowercase is f, A799
A<sub>7</sub>FB
       \mathbf{F}
             epigraphic reversed F
```

```
Claudian turned uppercase F; Claudian digamma inversum; lowercase is 1, 214E
2132
        \mathbf{E}
             Fraktur (black letter) uppercase F; used as a symbol only
1D509 F
24BB
        (\mathbf{F})
            circled Latin uppercase F; used as a symbol only
1E1E
        Ė
        F
0191
            lowercase is f, 0192
0067
        g
             instead of g: apply Stylistic Set 20 (as well as the italic font)
        g
        \mathbf{g}
             modifier letter small g; linguistic use
1D4D
1DDA
             combining small letter g
1D33
             modifier letter capital G; linguistic use
0262
             small capital g; IPA voiced uvular plosive; for linguistic use only
        G
1DDB
             combining letter small capital g
             script g; IPA voiced velar plosive; uppercase is G, A7AC
0261
1DA2
             modifier letter small script g; superscript; linguistic use only
             Latin small letter insular g
1D79
            small letter turned g
1D77
        8
            linguistic use only, not for Greek text; IPA voiced velar fricative; uppercase is \( \cdot \), 0194;
0263
        V
             compare y, 02E0, and x, 0264
02E0
             modifier letter small gamma; IPA velarized; occasionally used in transcription of
             affricates; compare \(^{\gamma}\), 1D5E; \(^{\gamma}\), 0263; and \(^{\gamma}\), 0264
             rams horn = baby gamma; IPA close-mid back unrounded; no uppercase
0264
            modifier letter small Greek gamma; linguistic use; compare y, 02E0, modifier letter
1D5E
       Υ
             small gamma
1D67
             Greek subscript small letter gamma; linguistic use
1D26
             Greek letter small capital gamma; not for Greek text, linguistic use only
             Fraktur (black letter) lowercase g; used as a symbol only
1D524 g
            parenthesized Latin lowercase g; used as a symbol only
24A2
        (g)
            circled Latin lowercase g; used as a symbol only
24D6
       (g)
01F5
        ģ
onD
        ĝ
1E21
        ğ
onF
01E7
        ğ
0121
        ġ
0123
        ģ
             uppercase is G, 0122
             IPA voiced velar implosive; uppercase is G, 0193
        g
0260
             small capital g with hook; IPA voiced uvular implosive; linguistic use only
029B
        ď
01E5
        g
1D83
        g_{J}
            lowercase g with palatal hook
        G
0047
```

```
Latin capital letter script G; lowercase is g, 0261
A<sub>7</sub>AC
       g
            linguistic use only, not for Greek text; lowercase is y, 0263
0194
        V
1D50A 6
            Fraktur (black letter) uppercase G; used as a symbol only
        (G)
            circled Latin uppercase G; used as a symbol only
24BC
        Ġ
01F4
        Ĝ
011C
        Ğ
1E20
        Ğ
onE
        Ğ
01E6
        Ġ
0120
        G
0193
            lowercase is f, 0260
        G
01E4
        Ģ
            lowercase is g, 0123
0122
0068
       h
            do not confuse with Cyrillic h, 04BB
            тра labial-palatal approximant; uppercase is Ч, A<sub>7</sub>8D
0265
        Ч
       h
02B0
            modifier letter small h; superscript; IPA aspirated
       Ô
            combining small letter h
036A
        ų
            modifier letter small turned h; superscript; linguistic use only
1DA3
02AE
            turned h with fishhook; no uppercase
       η
            turned h with fishhook and tail; no uppercase
02AF
       η
        Η
            modifier letter capital H; linguistic use; do not confuse with H, modifier letter Cyrillic
1D34
            en, 1D78
       Ħ
A<sub>7</sub>F8
            modifier letter capital H with stroke; faucalized; extended IPA; compare Ħ, 0126, H,
            1D34, and н, 029C
            small capital h; IPA voiceless epiglottal fricative; linguistic use only
029C
       Н
            Claudian lowercase half h
2C76
            Fraktur (black letter) lowercase h; used as a symbol only
1D525
       h
        (h) parenthesized Latin lowercase h; used as a symbol only
24A3
24D7
        (h)
            circled Latin lowercase h; used as a symbol only
        ĥ
0125
        ĥ
1E27
        ň
021F
        h
1E23
            IPA voiceless pharyngeal fricative; do not confuse with Cyrillic h, 045B
0127
        ħ
            h with hook; IPA voiced glottal fricative; also used in African orthographies (Chad);
0266
        ĥ
            uppercase is H, A7AA
        h
            modifier letter small h with hook; superscript; IPA breathy-voice-aspirated
02B1
0267
        h
            heng with hook; IPA voiceless multi-place fricative; no uppercase
            lowercase heng; Mayanist use; do not confuse with h, A795, h with palatal hook
A727
        h
        h
1E25
```

```
1E29
        þ
            lowercase h with descender (for Uighur); do not confuse with Cyrillic h 0527
2C68
        h
1E2B
        h
            no precomposed uppercase (for H, use a combination of H and 0, 0331, combining
1E96
        h
            macron below)
            Latin small letter h with palatal hook; used in Lithuanian dialectology; do not confuse
A795
        h
            with h, A727, lowercase heng; no uppercase
            uppercase is H<sub>2</sub>, o<sub>1</sub>F6
        h
0195
0048
        Η
A<sub>7</sub>8D
       Ч
            lowercase is 4, 0265
            Claudian uppercase half H
2C75
        ŀ
            Fraktur (black letter) uppercase H; used as a symbol only
210C
        \mathfrak{S}
        (H)
24BD
            circled Latin uppercase H; used as a symbol only
0124
        Ĥ
        Ä
1E26
        Ě
021E
        Ĥ
1E22
0126
        Ħ
            compare <sup>H</sup>, A<sub>7</sub>F8
A7AA H
            Latin capital letter h with hook; used in African orthographies (Chad); lowercase is fi,
            0266
A726
        Η
            uppercase Heng; Mayanist use
1E24
        Η
1E28
        H
2C67
        Ң
            uppercase H with descender (for Uighur)
1E2A
        Η
01F6
        Н
            lowercase is h, 0195
            compare uppercase İ, 0130, for Turkish etc.
0069
       i
            superscript lowercase i (modifier); linguistic use only
2071
            combining small letter i
0365
            Latin subscript small letter i; linguistic use
1D62
            modifier letter capital I; linguistic use
1D35
026A
            small cap; IPA lax close front unrounded; uppercase is I, 0197, according to ISO 6438:
            African coded character set for bibliographic information interchange; compare also
            the uppercase T, A7AE, as used in Gabonese orthographies
            modifier letter small capital i; superscript; linguistic use only
ıDA6
            small capital letter i with stroke; linguistic use only
1D7B
            modifier letter small capital i with stroke; superscript; linguistic use only
1DA7
1D09
            small letter turned i
       Ţ
            modifier letter small turned i; linguistic use
1D4E
            dotless i
0131
        1
```

```
0269
             lowercase iota: for linguistic use only, not for Greek text; uppercase is l, 0196
             modifier letter small iota; superscript; linguistic use only
1DA5
1D7C
             Latin small letter iota with stroke
             Fraktur (black letter) lowercase i; used as a symbol only
1D526 i
24A4
        (i) parenthesized Latin lowercase i; used as a symbol only
24D8 (i)
            circled Latin lowercase i; used as a symbol only
ooED í
ooEC ì
ooEE î
ooEF
       ï
0129
012B
       ĭ
012D
o<sub>1</sub>Do
      ĭ
       ì
0209
       î
020B
        î
             see also i, Latin small letter glottal i, A7BD, used in Ugaritic transcription and to
1EC9
             represent Egyptological yod
A<sub>7</sub>BD i
             Latin small letter glottal i; used to transcribe the Ugaritic cuneiform letter 

. It also
             represents Egyptological yod (usually in the italic form), which was formerly available
             only as a combination of lowercase i plus a combining diacritic (in the Brill fonts:
             i+o[0486]=i; which continues to be supported); uppercase is I, A7BC
             barred i; IPA close central unrounded; uppercase is I, 0197
0268
1DA4
             modifier letter small i with stroke; superscript; linguistic use only
012F
1ECB
        į
1E2D
             lowercase i with retroflex hook
1D96
1E2F
        Ι
0049
A7AE
       \mathbf{T}
             Latin capital letter small capital I; used in Gabonese orthographies; lowercase is I,
             026A
A<sub>7</sub>FE
       I
             epigraphic I longa
             epigraphic sideways I; used in Celtic inscriptions
A<sub>7</sub>F<sub>7</sub>
             uppercase iota: for linguistic use only, not for Greek text; lowercase is 1, 0269
0196
        l
             Fraktur (black letter) uppercase I; used as a symbol only
2111
        \mathfrak{J}
        (I)
            circled Latin uppercase I; used as a symbol only
24BE
0130
ooCD Í
ooCC Ì
```

```
Î
00CE
ooCF Ï
        Ĩ
0128
       Ī
012A
       Ĭ
012C
      ť
01CF
0208
       Î
020A
       Í
1EC8
             see also 'I, Latin capital letter glottal I, A7BC, used in Ugaritic transcription and to
             represent Egyptological yod
A<sub>7</sub>BC
       ľ
             Latin capital letter glottal I; used to transcribe the Ugaritic cuneiform letter 

■. It also
             represents Egyptological yod (usually in the italic form), which was formerly available
             only as a combination of uppercase I plus a combining diacritic (in the Brill fonts:
             I+o[0486]='I; which continues to be supported); lowercase is i, A7BD
            barred i; lowercase is i, 0268; alternatively, lowercase is small cap 1, 026A, according to
0197
        Ŧ
             ISO 6438: African coded character set for bibliographic information interchange
012E
1ECA
       Į
1E2C
1E2E
006A
      į
       j
02B2
             modifier letter small j; superscript; IPA palatalized
       J
1D36
             modifier letter capital J; linguistic use
1DoA
             small capital; linguistic use only
             Fraktur (black letter) lowercase j; used as a symbol only
1D527 j
             small dotless j
0237
        (j) parenthesized Latin lowercase j; used as a symbol only
24A5
            circled Latin lowercase j; used as a symbol only
24D9
       (j)
0135
       ĵ
o<sub>1</sub>Fo
       j
            no uppercase: for that, use J plus combining caron &, 030C
             uppercase is J, 0248
0249
       j
             turned f, used as Latin small letter dotless j with stroke; IPA voiced palatal plosive; no
025F
       ŧ
             uppercase
             modifier letter small dotless j with stroke; superscript; linguistic use only
1DA1
             dotless j with stroke and hook; IPA voiced palatal implosive; typographically based on
0284
            j, 025F, not on f, 0283; no uppercase; do not confuse with lowercase f with hook, f,
             0192, or lowercase abbreviation is, f, A<sub>7</sub>6D
029D
            j with crossed-tail; IPA voiced palatal fricative; also used in African orthographies;
       į
            uppercase is J, A7B2
       j
             modifier letter small j with crossed-tail; superscript; linguistic use only
1DA8
```

```
004A J
1D50D 3
            Fraktur (black letter) uppercase J; used as a symbol only
       (J)
24BF
            circled Latin uppercase I; used as a symbol only
       Ĵ
0134
0248
      J
            lowercase is j, 0249
A7B2
      Ţ
            Latin capital letter J with crossed tail; African orthographies; lowercase is j, 029D
006B
       k
       k
1D4F
            modifier letter small k; linguistic use
1D37
            modifier letter capital K; linguistic use
            small capital; linguistic use only
1DoB
       K
            Greenlandic kra; no uppercase
0138
       ĸ
1DDC
       Ö
            combining small letter k
            turned k; uppercase is A7Bo
029E
       Ж
1D528 f
            Fraktur (black letter) lowercase k; used as a symbol only
       (k) parenthesized Latin lowercase k; used as a symbol only
24A6
            circled Latin lowercase k; used as a symbol only
24DA
       k
1E31
       k
01E9
       ƙ
            uppercase is K, 0198
0199
            lowercase k with stroke; medievalist use; uppercase is K, A740
A741
       ŧ
A745
       ķ
            lowercase k with stroke and diagonal stroke; medievalist use; uppercase is K, A744
       k
            lowercase k with diagonal stroke; medievalist use; uppercase is K, A742
A743
       ķ
1E33
1E35
       ķ
       ķ
0137
       ķ
1D84
            lowercase k with palatal hook
            lowercase k with descender (for Uighur)
2C6A
       k
004B
       K
A<sub>7</sub>Bo
       К
            Latin capital letter turned K; lowercase is \(\eta\), 029E; used in Americanist orthographies
1D50E ℜ
            Fraktur (black letter) uppercase K; used as a symbol only
       (K)
24C0
            circled Latin uppercase K; used as a symbol only
       Ŕ
1E30
       Ř
01E8
0198
       К
            lowercase is k, 0199
            uppercase K with stroke; medievalist use; lowercase is k, A741
A740
       K
       K
            uppercase K with stroke and diagonal stroke; medievalist use; lowercase is k, A745
A744
            uppercase K with diagonal stroke; medievalist use; lowercase is k, A743
A742
       K
1E32
       Ķ
1E34
       Ķ
       K
0136
```

```
uppercase K with descender (for Uighur)
2C69
       K
       1
006C
1DDD o
            combining small letter l
            modifier letter capital L; linguistic use
1D38
            small capital l; IPA voiced velar lateral; linguistic use only
029F
            modifier letter small capital l; superscript; linguistic use only
1DAB
1DDE
            combining letter small capital l
02E1
            modifier letter small l; linguistic use only
A747
       ŀ
            lowercase broken l; medievalist use
            Fraktur (black letter) lowercase l; used as a symbol only
1D529 [
       (1) parenthesized Latin lowercase l; used as a symbol only
24A7
            circled Latin lowercase l; used as a symbol only
24DB
            lowercase Greek lambda with 'Latin' shape: Americanist phonetic notation, voiced
озВВ
       λ
            alveolar lateral affricate (this OpenType glyph variant is accessed in Stylistic Set 20)
            Greek letter small capital lamda; not for Greek text, linguistic use only
1D27
        Λ
            cyrillic letter small capital el; linguistic use only
1D2B
       Л
       ĺ
013A
       ľ
013E
       ŀ
0140
A749
            lowercase I with high stroke; medievalist use
       ł
0142
1DoC
       Ł
            small capital l with stroke; linguistic use only
019A
       ł
            uppercase is Ł, 023D
026B
            IPA velarized voiced alveolar lateral; uppercase is Ł, 2C62
            IPA voiceless alveolar lateral fricative; uppercase is Ł, A7AD
026C
2C61
       ŧ
            lowercase abbreviation lum
A772
       l<sub>4</sub>
1E37
       ļ
013C
1E3B
ıE3D
        l
            no uppercase
0234
            lowercase l with palatal hook
1D85
       ļ
            modifier letter small l with palatal hook; superscript; linguistic use only
1DAA
            lowercase I with retroflex hook; IPA voiced retroflex lateral; no uppercase
026D
1DA9
       l
            modifier letter small I with retroflex hook; superscript; linguistic use only
            Latin small letter l with retroflex hook and belt; voiceless lateral retroflex fricative;
A<sub>7</sub>8E
       þ
            used to transcribe Toda; no uppercase
       Ī
1E39
019B
       λ
            linguistic use, not for Greek text; no uppercase
```

```
with initial cap Lj, o1C8; all-uppercase is LJ, o1C7
01C9
       lį
1EFB
            Middle-Welsh ll; uppercase is IL, 1EFA
       Ħ
02AA
       b
            ls digraph; no uppercase
            lz digraph; no uppercase
o2AB k
026E
       լչ
            lezh; IPA voiced alveolar lateral fricative; no uppercase
004C L
A746
       L
            uppercase broken L; medievalist use
10192
       \mathfrak{L}
            Roman semuncia sign; compare £, 00A3, pound sign
ooA3
       £
            Pound sign; also (former Italian) Lira; compare £, 10192, Roman semuncia sign, and £,
            20BA, Turkish Lira
1D50F £
            Fraktur (black letter) uppercase L; used as a symbol only
            circled Latin uppercase L; used as a symbol only
24C1
       Ĺ
0139
013D
       Ľ
       Ł
            uppercase L with high stroke; medievalist use
A748
013F
       I:
       Ł
0141
            lowercase is l, 019A
023D
       Ł
2C62
       Ł
            lowercase is ł, 026B
A7AD Ł
            Latin capital letter L with belt; lowercase is 4, 026C
2C60
       Ŧ.
1E36
013B
       Ļ
1E3A
       L
1E3C
       Ļ
1E38
       Ī
       Li
            with initial cap; all-uppercase is LJ, o1C7; lowercase is lj, o1C9
01C8
            all-uppercase; with initial cap Lj, o1C8; lowercase is lj, o1C9
01C7
       LJ
1EFA
            Middle-Welsh LL; lowercase is II, 1EFB
       \mathbb{L}
006D
       m
036B
       Ö
            combining small letter m
1D50
            modifier letter small m; linguistic use
       M
            modifier letter capital M; linguistic use
1D39
1DoD
            small capital; linguistic use only
       M
1DDF
            combining letter small capital m
026F
            IPA close back unrounded; uppercase is UI, 019C
       ш
            modifier letter small turned m; linguistic use
1D5A
0270
            IPA velar approximant; no uppercase
       щ
1DAD
       щ
            modifier letter small turned m with long leg; superscript; linguistic use only
1D1F
       \exists
            small letter sideways turned m
```

```
Fraktur (black letter) lowercase m; used as a symbol only
1D52A m
       (m) parenthesized Latin lowercase m; used as a symbol only
24A8
24DC
       (m)
            circled Latin lowercase m; used as a symbol only
1E3F
       ḿ
1E41
       m
1D6F
       m
            small letter m with middle tilde
A773
       m,
            lowercase abbreviation mum
1E43
       m
0271
            m with hook; IPA voiced labiodental nasal; uppercase is M, 2C6E
       m
1DAC
            modifier letter small m with hook; superscript; linguistic use only
1D86
            lowercase m with palatal hook
       m
004D
       M
A<sub>7</sub>FD W
            epigraphic inverted M
019C
       Ш
           lowercase is u, 026F
       W
A<sub>7</sub>FF
            epigraphic archaic M
1D510
            Fraktur (black letter) uppercase M; used as a symbol only
       \mathfrak{M}
            circled Latin uppercase M; used as a symbol only
24C2
       (M)
       M
1E3E
1E40
       M
1E42
       M
2C6E
       M
            lowercase is m, 0271
006E
       n
            superscript lowercase n (modifier); linguistic use only
207F
1DEo
       Ö
            combining small letter n
            modifier letter capital N; linguistic use
1D3A
       N
            small cap; IPA voiced uvular nasal; linguistic use only
0274
1DBo
       N
            modifier letter small capital n; superscript; linguistic use only
1DE1
            combining letter small capital n
       \mathbf{N}
            modifier letter capital reversed N; linguistic use
1D3B
1DoE
            small capital reversed n
       И
            Fraktur (black letter) lowercase n; used as a symbol only
1D52B n
       (n) parenthesized Latin lowercase n; used as a symbol only
24A9
       (n)
            circled Latin lowercase n; used as a symbol only
24DD
0144
       ń
01F9
       'n
00F1
       ñ
0148
       ň
1E45
       'n
0149
       'n
            deprecated character, whose use is strongly discouraged
1D70
            small letter n with middle tilde
       Ħ
```

```
lowercase abbreviation num
A774
        n_{\mu}
1E47
        n
1E49
       n
0146
        ņ
1E4B
       ņ
0235
            no uppercase
       n
            Latin small letter n with descender; uppercase is N, A790
A791
       n
            lowercase n with palatal hook
1D87
       ŋ
014B
            IPA voiced velar nasal; uppercase is N, 014A
       η
            character variants (for small cap N only):
            (small cap) use Stylistic Set or
        n
            (small cap) use Stylistic Set 02
        η
            modifier letter small eng; linguistic use
1D51
            IPA voiced retroflex nasal; no uppercase
0273
        η
1DAF
            modifier letter small n with retroflex hook; superscript; linguistic use only
       η
            IPA voiced palatal nasal; uppercase is N, 019D
0272
       n
1DAE
       ŋ
            modifier letter small n with left hook; superscript; linguistic use only
            uppercase is η, 0220
019E
       η
oıCC
            with initial cap Nj, o1CB; all-uppercase is NJ, o1CA
       nj
            modifier letter Cyrillic en; linguistic use; do not confuse with H, modifier letter
1D78
            capital H, 1D34
       N
004E
1D511
       \mathfrak{N}
            Fraktur (black letter) uppercase N; used as a symbol only
24C3
        (N)
            circled Latin uppercase N; used as a symbol only
        Ń
0143
oıF8
        Ň
00D1
       Ñ
        Ň
0147
        Ń
1E44
1E46
        Ņ
1E48
        N
        Ņ
0145
1E4A
       Ņ
            Latin capital letter N with descender; lowercase is n, A791
A790
       Ŋ
       Ŋ
            lowercase is η, 014B
014A
            character variants:
        Ŋ
            use Stylistic Set 01
        ŋ
            use Stylistic Set 02
019D
       N
            lowercase is p, 0272
       η
            lowercase is η, 019E
0220
```

```
01CB
            with initial cap; all-uppercase is NJ, o1CA; lowercase is nj, o1CC
            all-uppercase; with initial cap Nj, o1CB; lowercase is nj, o1CC
01CA
       NI
        N_0
            Numero sign
2116
006F
        o
            subscript lowercase o
2092
            combining small letter o
0366
        ိ
            masculine ordinal; do not confuse with o, 1D52, modifier letter small o, or o, ooBo,
ooBA
            degree sign, or °, 02DA, spacing ring above
1D52
            modifier letter small o; linguistic use; do not confuse with o, ooBA, masculine ordinal,
            or °, ooBo, degree sign, or °, o2DA, spacing ring above
        0
            modifier letter capital O; linguistic use
1D3C
            small capital; linguistic use only
1DoF
        o
            small letter sideways o
1D11
        0
1D13
            small letter sideways o with stroke
        Ø
            small letter sideways open o
1D12
        C
0254
            open o: typographically a turned c; uppercase is 3, 0186
       Э
        Э
            modifier letter small open o; linguistic use
1D53
            small capital open o; linguistic use only
1D10
        С
1D97
            lowercase open o with retroflex hook
1D16
            small letter top half o
            modifier letter small top half o; linguistic use
1D54
            small letter bottom half o
1D17
            modifier letter small bottom half o; linguistic use
1D55
            Latin small letter omega; used in Gabonese orthographies; uppercase is \omega, A7B6
A<sub>7</sub>B<sub>7</sub>
       ω
            closed omega; linguistic use only; no uppercase
0277
        ω
            small capital omega; Americanist use only; no uppercase
AB65
       Ω
            Fraktur (black letter) lowercase o; used as a symbol only
1D52C 0
       (o) parenthesized Latin lowercase o; used as a symbol only
24AA
            circled Latin lowercase o; used as a symbol only
24DE
       (o)
ooF3
        ó
ooF2
        ò
ooF4
        ô
ooF6
       ö
ooF5
       õ
014D
014F
        ŏ
01D2
        ŏ
0151
        ő
020D
        ő
020F
        ô
```

```
022F
        ò
1ECF
        ó
            uppercase is O, 01A0
01A1
        ď
A<sub>74</sub>D \circ
            lowercase o with loop; medievalist use
            IPA front close-mid rounded; do not confuse with Ø, 2205
ooF8
        Ø
01FF
        ģ
0275
        θ
            IPA rounded šwa; uppercase is θ, 019F
1DB1
            modifier letter small barred o; superscript; linguistic use only
A74B
            lowercase o with long stroke overlay; medievalist use
        θ
2C7A
            UPA lowercase o with ring inside; no uppercase
       0
01EB
        Q
01ED
        ō
1ECD
1ED1
        ő
        ô
ıED3
        ô
ıED7
        ő
ıED5
ıED9
        ô
1E4D
1E4F
        ō
022D
        ö
022B
        ó
1E53
1E51
        ò
        ō
0231
1EDB
        ά
1EDD
        ò
1EE1
        õ
1EDF
        ở
1EE3
        Ò
            IPA front open-mid rounded
0153
        œ
        œ
A<sub>7</sub>F<sub>9</sub>
            modifier letter small ligature oe; linguistic use
0276
            small cap, linguistic use only; IPA front open rounded
        Œ
            small letter turned œ
1D14
        \mathfrak{B}
            uppercase is IJ, 01A2
01A3
        q
A74F
            lowercase oo; medievalist use
        \infty
        8
            lowercase letter ou; uppercase is 8, 0222
0223
        8
ıD3D
            modifier letter capital OU (8); linguistic use
1D15
        8
            small capital ou; linguistic use only
004F
        0
```

```
0186
       С
           uppercase open O: typographically a turned C; lowercase is 0254; do not confuse with
            O, roman numeral reversed one hundred, 2183
           Latin uppercase Omega; used in Gabonese orthographies; lowercase is ω, A<sub>7</sub>B<sub>7</sub>
A<sub>7</sub>B6
       ω
            Fraktur (black letter) uppercase O; used as a symbol only
1D512 0
       (0)
           circled Latin uppercase O; used as a symbol only
24C4
ooD3 Ó
ooD2 Ò
       Ô
ooD4
ooD6 Ö
ooD5
       Õ
014C
       Ō
014E
       Ŏ
01D1
       Ŏ
       Ő
0150
       Ő
020C
       Ô
020E
       Ò
022E
1ECE
       Ŏ
       Q
oıAo
           lowercase is o, 01A1
A74C
       O
            uppercase O with loop; medievalist use
ooD8
       Ø
           uppercase O with stroke; O slash; do not confuse with the symbol Ø, 2205, empty set
       Ó
01FE
019F
       θ
           lowercase is 0, 0275
A74A
       \Theta
            uppercase O with long stroke overlay; medievalist use
0298
       \odot
            IPA bilabial click; no uppercase; do not confuse with 0, 2609, the sun symbol
01EA
       Q
       Ō
01EC
1ECC
       Ò
       Ő
1EDo
       Ő
1ED2
       Õ
ıED6
       Ő
ıED4
ıED8
       Ô
       Ö
022A
       Ő
1E4C
       Ö
1E4E
       Õ
022C
       Ó
1E52
       Ò
1E50
       Ō
0230
```

```
Ő
1EDA
       Ò
1EDC
1EE0
        Õ
1EDE
       ð
        Q
1EE2
0152
        Œ
01A2
        ID
            lowercase is q, 01A3
            uppercase OO; medievalist use
A74E
        \infty
0222
        8
            uppercase letter ou; lowercase is 8, 0223; see also 8, modifier letter capital OU (8),
            1D3D
0070
        p
        p
            modifier letter small p; linguistic use
1D56
       P
            modifier letter capital P; linguistic use
1D3E
1D18
            small capital; linguistic use only
        P
            sound recording copyright; do not confuse with (P), 24C5, circled Latin uppercase P
2117
            Greek letter small capital pi; not for Greek text, linguistic use only
1D28
       П
            Greek letter small capital psi; not for Greek text, linguistic use only
1D2A
       Ψ
            Fraktur (black letter) lowercase p; used as a symbol only
1D52D p
        (p) parenthesized Latin lowercase p; used as a symbol only
24AB
            circled Latin lowercase p; used as a symbol only; do not confuse with ®, sound
24DF
        (p)
            recording copyright, 2117
1E55
        ģ
1E57
        ġ
01A5
        þ
            uppercase is P, 01A4
            small letter p with stroke; uppercase is P, 2C63
ıD7D
       p
            lowercase p with stroke through descender
A751
        р
            small letter p with middle tilde
1D71
        p
1D88
            lowercase p with palatal hook
        р
            lowercase p with flourish
A<sub>753</sub>
       ф
            lowercase p with squirrel tail; medievalist use
A755
       φ
        P
0050
A<sub>7</sub>FC
       P
            epigraphic reversed P
            Fraktur (black letter) uppercase P; used as a symbol only
1D513
       \mathfrak{P}
        (P)
            circled Latin uppercase P; used as a symbol only; compare ®, 2117, sound recording
24C5
            copyright, with which it should not be confused
        Ý
1E54
        Ė
1E56
01A4
       P
            lowercase is β, 01A5
        ₽
2C63
            lowercase is p, 1D7D
        ₽
            uppercase P with stroke through descender
A<sub>75</sub>0
```

₽ uppercase P with flourish A752 Ψ A754 uppercase P with squirrel tail; medievalist use 0071 q A7AF Q Latin letter small capital q; used in Japanese phonemic transcription 1D52E g Fraktur (black letter) lowercase q; used as a symbol only 24AC (q) parenthesized Latin lowercase q; used as a symbol only **24**Eo (q) circled Latin lowercase q; used as a symbol only 02A0 ď q with hook; no uppercase 024B q A757 lowercase q with stroke through descender q lowercase q with diagonal stroke A759 g qp digraph; no uppercase; do not confuse with Greek φ, 03C6, or with Cyrillic φ, 0444 0239 φ 0051 Q Q Fraktur (black letter) uppercase Q; used as a symbol only 1D514 **24C6** (Q) circled Latin uppercase Q; used as a symbol only uppercase letter small q with hook tail 024A Q. uppercase Q with stroke through descender A<sub>75</sub>6 Q uppercase Q with diagonal stroke A<sub>75</sub>8 Q<sub>2</sub> 0072 02B3 modifier letter small r; superscript; linguistic use only 036C combining small letter r Latin subscript small letter r; linguistic use 1D63 1DCA combining small letter r below ıD<sub>3</sub>F modifier letter capital R; linguistic use 0280 small cap r; IPA voiced uvular trill; also yr (whose uppercase is R, 01A6), used in Germanic, Old Norse 1DE2 combining letter small capital r turned r; IPA voiced (post)alveolar approximant; no uppercase 0279 modifier letter small turned r; superscript; IPA rhotacized 02B4 small capital turned r 1D1A 0281 small capital inverted r; IPA voiced uvular fricative 02B6 modifier letter small capital inverted r; superscript; linguistic use only small capital reversed r 1D19 Я combining small letter r rotunda 1DE3 Greek subscript small letter rho; linguistic use 1D68 Greek letter small capital rho; not for Greek text, linguistic use only 1D29 P 027E r with fishhook; IPA voiced alveolar tap; no uppercase A75B 3 lowercase r rotunda A<sub>75</sub>D lowercase rum rotunda

Fraktur (black letter) lowercase r; used as a symbol only

1D52F r

```
(r) parenthesized Latin lowercase r; used as a symbol only
24AD
           circled Latin lowercase r; used as a symbol only
24E1
       ŕ
0155
       ř
0159
       ř
0211
       ŕ
0213
       ŕ
1E59
024D
1D72
       ¥
1D73
            small letter r with fishhook and middle tilde
       £
            lowercase abbreviation rum
A775
       n/
A776
            small capital abbreviation rum
       R/
1E5B
       ŗ
1E5F
       ŗ
0157
            lowercase r with palatal hook
1D89
       ŗ
            r with long leg; no uppercase
027C
       r
            r with tail; IPA voiced retroflex flap; uppercase is R, 2C64
027D
       ľ.
027F
            reversed r with fishhook; no uppercase
       า
       J
            turned r with long leg; IPA voiced alveolar lateral flap; no uppercase
027A
       J
            UPA lowercase turned r with tail; no uppercase
2C79
            turned r with hook; IPA voiced retroflex approximant; no uppercase
027B
       ŀ
            modifier letter small turned r with hook; superscript; linguistic use only
02B5
ıE5D
       ŗ
       R
0052
ooAE
            registered sign
01A6
            yr, lowercase – or rather, small cap – is R, 0280; Germanic, Old Norse
       Ŕ
       3
            uppercase R rotunda
A75A
A75C
       2
            uppercase RUM rotunda
211C
       R
            Fraktur (black letter) uppercase R; used as a symbol only
       (R)
24C7
            circled Latin uppercase R; used as a symbol only
       Ŕ
0154
       Ř
0158
       Ř
0210
       Ŕ
0212
1E58
       Ŕ
       R
            R with stroke
024C
211E
       R
            recipe; cross ratio; this is a symbol, not an alphabetic character
1E5A
       Ŗ
1E5E
       R
```

```
0156
        R
        Ŗ
2C64
            r with tail; lowercase is r, 027D
        Ā
1E5C
0073
        S
A731
        S
            small capital s; medievalist use
            combining small letter s
1DE4
        ំ
02E2
            modifier letter small s; superscript; linguistic use only
            Zhuang lowercase letter tone two
01A8
017F
        ſ
            long s
1DE5
            combining small letter long s
1E9B
            long s with dot above
1E9D
       f
            long s with high stroke
        f
1E9C
            long s with diagonal stroke
FB<sub>05</sub>
        ſt
            lowercase ligature long s t; do not use: this character is only present for legacy
            purposes
            Fraktur (black letter) lowercase s; used as a symbol only
1D530 $
        (s) parenthesized Latin lowercase s; used as a symbol only
24AE
        (s)
            circled Latin lowercase s; used as a symbol only
24E2
015B
        ś
015D
        š
0161
1E61
        ġ
1D74
        S
            small letter s with middle tilde; no uppercase
1E63
        Ş
015F
        ş
0219
            Latin small letter s with swash tail; Africanist use; uppercase is $, 2C7E
023F
            s with hook; IPA voiceless retroflex fricative; no uppercase
0282
            modifier letter small s with hook; superscript; linguistic use only
1DB3
            lowercase s with palatal hook
1D8A
        S
FB<sub>0</sub>6
       \operatorname{st}
            lowercase ligature st; do not use: this character is only present for legacy purposes
0283
       ſ
            lowercase esh; IPA voiceless postalveolar fricative; uppercase is \Sigma, o1A9, in the Africa
            Alphabet; do not confuse with ſ, 222B, integral
1DB4
       ſ
            modifier letter small esh; superscript; linguistic use only
            dotless j with stroke and hook; typographically based on j, 025F, not on ſ, 0283; no
0284
       ſ
            uppercase
            esh with curl; no uppercase
0286
1D98
            lowercase esh with retroflex hook
1D8B
            lowercase esh with palatal hook
            squat reversed esh; no uppercase
0285
```

```
٩
            reversed esh loop; no uppercase
01AA
        š
1E65
        š
1E67
1E69
       ß
ooDF
            lowercase German scharfes S; uppercase is ß, 1E9E
        S
0053
        S
01A7
            Zhuang uppercase letter tone two; compare 2, 10193, Roman sextula sign
            Roman sextula sign; compare 2, 01A7, Zhuang uppercase letter tone two
        \mathbf{S}
10193
       8
            Roman dimidia sextula sign
10194
        S
            voiced laryngeal spirant
1D24
        Σ
            never used for Greek text, only in the Africa Alphabet; lowercase is f, 0283
01A9
       6
1D516
            Fraktur (black letter) uppercase S; used as a symbol only
        (s)
24C8
            circled Latin uppercase S; used as a symbol only
        Ś
015A
        Ŝ
015C
        Š
0160
        Ś
1E60
        $
            Dollar sign
0024
1E62
        Ş
        Ş
015E
        Ş
0218
2C7E
        Ş
            Latin capital letter S with swash tail; Africanist use; lowercase is $, 023F
       Ş
A<sub>7</sub>C<sub>5</sub>
            Latin capital letter S with hook; used in early Pinyin romanization; lowercase is $, 0282
       Ś
1E64
        Š
1E66
        Ś
1E68
        ß
1E9E
            uppercase letter German scharfes S; lowercase is ß, ooDF
        t
0074
        t
1D57
            modifier letter small t; linguistic use
       T
            modifier letter capital T; linguistic use
1D40
1D1B
            small capital; linguistic use only
        Т
036D
       ់
            combining small letter t
            turned t; uppercase is L, A7B1
0287
       1
        θ
            lowercase Greek theta, with 'Latin' shape; IPA voiceless dental fricative (this
03B8
            OpenType glyph variant is accessed in Stylistic Set 20)
1DBF
            modifier letter small theta; superscript; linguistic use only
            Fraktur (black letter) lowercase t; used as a symbol only
1D531
24AF
        (t) parenthesized Latin lowercase t; used as a symbol only
24E3
        (t) circled Latin lowercase t; used as a symbol only
        ï
1E97
            no uppercase
```

```
0165
       ť
            uppercase is Ť, 0164
       ŧ
1E6B
       ť
01AD
            uppercase is T, 01AC
0167
       ŧ
            small letter t with middle tilde
1D75
       ŧ
2C66
       ŧ
A777
       ť
            lowercase abbreviation tum
0163
1E6D
       ţ
1E6F
021B
1E71
       ţ
            no uppercase
0236
       t
01AB
            no uppercase
       ţ
1DB5
            modifier letter small t with palatal hook; superscript; linguistic use only
0288
            IPA voiceless retroflex plosive; uppercase is T, 01AE
       t.
            tc digraph with curl; no uppercase
02A8
       tc
ıD7A
            small letter th with strikethrough
       ţħ
02A6
            ts digraph; no uppercase
       ts
            Latin small letter ts digraph with retroflex hook; no uppercase; used in Sinological and
AB67
            Tibetanist transcriptions
            tesh digraph; IPA voiceless postalveolar affricate; no uppercase
02A7
A729
        tz
            lowercase tz; Mayanist use
0054
       T
A<sub>7</sub>B<sub>1</sub>
       \mathbf{T}
            Latin capital letter turned T; lowercase is 1, 0287; used in Americanist orthographies
            Fraktur (black letter) uppercase T; used as a symbol only
1D517
       \mathbb{C}
24C9
        (T)
            circled Latin uppercase T; used as a symbol only
0164
        Ť
            lowercase is t', 0165
        Ť
1E6A
       Т
01AC
            lowercase is f. 01AD
       Ŧ
0166
       7
023E
0162
        Ţ
       Ţ
1E6C
1E6E
       T
       Ţ
021A
        Ţ
1E70
01AE
       Ţ
            lowercase is t, 0288
A728
        Ŧż
            uppercase Tz; Mayanist use
            trade mark sign
2122
```

```
0075
        u
1D58
            modifier letter small u; linguistic use
1D64
            Latin subscript small letter u; linguistic use
1D41
            modifier letter capital U; linguistic use
0367
        Ö
            combining small letter u
1D1C
        U
            small capital; linguistic use only
        \mathbf{U}
1DB8
             modifier letter small capital u; superscript; linguistic use only
            small letter sideways u
1D1D
        Ħ
1D59
            modifier letter small sideways u; linguistic use
028A
            Latin upsilon; IPA lax close back rounded; uppercase is 0, 01B1
        Ω
1DB7
        \sigma
            modifier letter small upsilon; superscript; linguistic use only
1D7F
            Latin small letter upsilon with stroke
1D532 u
             Fraktur (black letter) lowercase u; used as a symbol only
24B0
        (u) parenthesized Latin lowercase u; used as a symbol only
            circled Latin lowercase u; used as a symbol only
24E4
ooFA
        ú
ooF9
        ù
ooFB
        û
ooFC
        ü
1D1E
        :=
            small letter sideways diaeresized u
0169
        ũ
016B
        ū
016D
        ŭ
01D4
        ů
016F
        ů
        ű
0171
        ù
0215
0217
        û
1EE7
        ů
             see also û, Latin small letter glottal u, A7BF, used in Ugaritic transcription
A<sub>7</sub>BF
        ů
            Latin small letter glottal u; used to transcribe the Ugaritic cuneiform letter \coprod;
             uppercase is 'U, A7BE
o<sub>1</sub>Bo
        ư
            IPA close central rounded
0289
        u
1D7E
            small capital letter u with stroke
        ŧ
1DB6
            modifier letter small u bar; superscript; linguistic use only
             Latin small letter u with stroke; uppercase is V, A<sub>7</sub>B8; used in Mazahua
A7B9
        И
0173
        ų
1E73
        u
1E75
        ų
1E77
```

```
1EE5
       ņ
            lowercase u with retroflex hook
1D99
       ц
       ū
01D6
oıD8
        ű
       ů
01DA
o<sub>1</sub>DC
       ù
        ű
1E79
1E7B
       ü
1EE9
       ứ
1EEB
       ù
1EEF
        ũ
1EED
        ử
1EF1
        ự
1D6B
       æ
            Latin small letter ue
       U
0055
01B1
        Ω
            Latin upsilon; lowercase is v, 028A
       \mathfrak{U}
            Fraktur (black letter) uppercase U; used as a symbol only
1D518
       (U)
24CA
            circled Latin uppercase U; used as a symbol only
ooDA Ú
       Ù
ooDg
ooDB Û
ooDC Ü
        Ũ
0168
       Ū
016A
       Ŭ
016C
       Ŭ
01D3
        Ů
016E
0170
        Ű
        Ù
0214
        Û
0216
       Ů
1EE6
            see also 'U, Latin capital letter glottal U, A7BE, used in Ugaritic transcription
A<sub>7</sub>BE
       ľ
            Latin capital letter glottal U; used to transcribe the Ugaritic cuneiform letter <u>₩</u>;
            lowercase is ů, A7BF
       Ű
01AF
0244
        Ħ
            Latin capital letter U with stroke; lowercase is и, A7B9; used in Mazahua
A7B8
       V
        Ų
0172
1E72
        Ü
1E74
        Ų
1E76
       Ų
```

```
1EE4
        Ų
        Ü
01D5
        Ű
01D7
        Ů
01Dq
        Ü
01DB
        Ű
1E78
        Ü
1E7A
        Ú
ıEE8
1EEA
        Ù
        Ũ
1EEE
        ľľ
1EEC
1EFo
        Ű
0076
        v
1D5B
             modifier letter lowercase v; superscript; linguistic use only
            Latin subscript small letter v; linguistic use
1D65
            small capital; linguistic use only
1D20
        v
            combining small letter v
036E
        ŏ
028C
            turned v, not a Greek lambda; IPA open-mid back unrounded; uppercase is Λ, 0245
       Λ
            modifier letter small turned v; superscript; linguistic use only
1DBA
028B
            variant v, used in linguistics and in some African languages; IPA voiced labiodental
            approximant; uppercase is U, 01B2
            modifier letter small v with hook; superscript; linguistic use only
1DB9
            Middle-Welsh lowercase v
1EFD
        6
2C71
        \mathbf{v}
            lowercase v with right hook; no uppercase
             Fraktur (black letter) lowercase v; used as a symbol only
1D533
       \mathfrak{v}
        (v) parenthesized Latin lowercase v; used as a symbol only
24B1
        (\mathbf{v})
            circled Latin lowercase v; used as a symbol only
24E5
1E7D
        \boldsymbol{\tilde{v}}
2C74
        ٧
            lowercase v with curl; no uppercase
A<sub>75</sub>F
            lowercase v with diagonal stroke; medievalist use
        V
1E7F
        Ų
1D8C
            lowercase v with palatal hook
        У
            lowercase vy; medievalist use
A<sub>7</sub>61
        w
0056
        V
0245
        Λ
            turned v, not a Greek lambda; lowercase is A, 028C
01B2
            variant v, used in linguistics and in some African languages; lowercase is v, 028B
        U
1EFC
        6
            Middle-Welsh uppercase V
1D519
        \mathfrak{V}
             Fraktur (black letter) uppercase V; used as a symbol only
24CB
        (v)
            circled Latin uppercase V; used as a symbol only
        Ñ
1E7C
```

```
A75E
       V
            uppercase V with diagonal stroke; medievalist use
       ¥
10197
            Roman quinarius sign
1E7E
       V
A<sub>7</sub>60 W
            uppercase VY; medievalist use
0077
       w
            modifier letter small w; superscript; linguistic use only
02B7
       \mathbf{W}
            modifier letter capital W; linguistic use
1D42
            small capital; linguistic use only
1D21
028D M
            turned w; IPA voiceless labial-velar fricative; no uppercase
A<sub>7</sub>C<sub>3</sub>
            Latin small letter Anglicana w; uppercase is W, A7C2; used in medieval English and
       VВ
            Cornish
1D534 w
            Fraktur (black letter) lowercase w; used as a symbol only
       (w) parenthesized Latin lowercase w; used as a symbol only
24B2
24E6
       (\mathbf{w})
            circled Latin lowercase w; used as a symbol only
1E83
       ŵ
1E81
       ŵ
       ŵ
0175
1E85
       ŵ
1E98
       ŵ
            no uppercase
1E87
       ŵ
            lowercase w with hook
2C73
       W
1E89
       w
o2AC w
            bilabial percussive; no uppercase
0057
       W
A<sub>7</sub>C<sub>2</sub>
       M3
            Latin capital letter Anglicana W; lowercase is vs, A7C3; used in medieval English and
            Cornish
            Fraktur (black letter) uppercase W; used as a symbol only
1D51A W
24CC
            circled Latin uppercase W; used as a symbol only
       Ŵ
1E82
       Ŵ
1E80
       Ŵ
0174
1E84
       Ŵ
1E86
       Ŵ
2C72
      W
            uppercase W with hook
1E88
       W
0078
       X
            modifier letter small x; linguistic use only; do not confuse with *, modifier letter cross
02E3
            accent, o2DF
            subscript lowercase x
2093
            combining small letter x
036F
```

```
AB53
            Latin small letter khi; IPA voiceless uvular fricative; uppercase is X, A7B3;
      χ
            formerly, lowercase Greek khi, 03C7, was given a 'Latin' shape by applying Stylistic
            Set 20: x
            modifier letter small chi; linguistic use
1D61
       χ
            Greek subscript small letter chi; linguistic use
1D6A
            Fraktur (black letter) lowercase x; used as a symbol only
1D535 x
       (x) parenthesized Latin lowercase x; used as a symbol only
24B3
            circled Latin lowercase x; used as a symbol only
24E7
ıE8D
      Ÿ
1E8B
       х
1D8D x
            lowercase x with palatal hook; no uppercase
       X
0058
A<sub>7</sub>B<sub>3</sub> X
            Latin capital letter Khi; used in German dialectology; lowercase is y, AB53
1D51B X
            Fraktur (black letter) uppercase X; used as a symbol only
24CD (X)
            circled Latin uppercase X; used as a symbol only
       Ÿ
1E8C
       Ż
1E8A
10196 X
            Roman denarius sign
0079
       y
            small capital y; linguistic use only: IPA near-close near-front rounded
028F
       Y
       y
            modifier letter small y; superscript; linguistic use only
02B8
028E
       λ
            turned y; IPA voiced palatal lateral; no uppercase; compare 1, 2041, caret insertion
            point
1D536 p
            Fraktur (black letter) lowercase y; used as a symbol only
           parenthesized Latin lowercase y; used as a symbol only
24B4
       (y)
            circled Latin lowercase y; used as a symbol only
24E8
ooFD ý
1EF3
       ỳ
0177
       ŷ
ooFF
       ÿ
1EF9
       ÿ
0233
1E99
       ŷ
            no uppercase
1E8F
       ġ
1EF7
       ý
01B4
       У
024F
       ¥
            Elfdalian y with ogonek can be made by keying y followed by a combining ogonek, ,
       y
            0328
```

```
1EF5
1EFF
            y with loop
            Dutch letter ij; uppercase is IJ, 0132
0133
       ij
            Dutch letter ij with two acute accents can be made by keying ij followed by one
        íí
            combining acute accent, 6, 0301
       Y
0059
1D51C I
            Fraktur (black letter) uppercase Y; used as a symbol only
       (Y)
            circled Latin uppercase Y; used as a symbol only
24CE
ooDD Ý
       Ŷ
1EF2
       Ŷ
0176
       Ϋ
0178
       Ŷ
ıEF8
       Ÿ
0232
1E8E
       Ÿ
       Ý
ıEF6
       Y
            Y with hook
01B3
       Y
024E
00A5
       ¥
            Yen, Yuan sign
       Y
1EF4
       У
1EFE
            Y with loop
        ¥
            Elfdalian Y with ogonek can be made by keying Y followed by a combining ogonek, o
            0328
            Dutch letter IJ; lowercase is ij, 0133
        IJ
0132
        ÍÍ
            Dutch letter ij with two acute accents can be made by keying IJ followed by one
            combining acute accent, 6, 0301
007A
       \mathbf{z}
1D22
            small capital; linguistic use only
       \mathbf{Z}
1DBB
       \mathbf{z}
            modifier letter small z; superscript; linguistic use only
1DE6
       Ŏ
            combining small letter z
A763
            lowercase Visigothic z
            Fraktur (black letter) lowercase z; used as a symbol only
1D537 3
       (z) parenthesized Latin lowercase z; used as a symbol only
24B5
            circled Latin lowercase z; used as a symbol only
24E9
       ź
017A
1E91
       \hat{\mathbf{z}}
       ž
017E
017C
        ż
01B6
```

```
1D76
             small letter z with middle tilde
        7
1E93
        \mathbf{z}
1E95
        \mathbf{z}
0225
        Z
0240
        7.
            in Brill fonts: lowercase only; uppercase is 2C7F, introduced with Unicode v. 5.2
0291
            z with curl; IPA voiced alveolopalatal fricative; no uppercase
        \mathbf{Z}
1DBD
       Z
             modifier letter small z with curl; superscript; linguistic use only
            z with retroflex hook; IPA voiced retroflex fricative; no uppercase
0290
        Z
1DBC
       Z.
             modifier letter small z with retroflex hook; superscript; linguistic use only
            lowercase z with palatal hook; uppercase is Z, A<sub>7</sub>C6
1D8E
        Z
            lowercase z with descender (for Uighur)
2C6C
        Z
        Z
005A
        3
A762
            uppercase Visigothic Z
2128
        3
             Fraktur (black letter) uppercase Z; used as a symbol only
        (\mathbf{Z})
24CF
            circled Latin uppercase Z; used as a symbol only
        Ź
0179
        Ź
1E90
        Ž
017D
        Ż
017B
        Z
01B5
        Ż
1E92
        Z
1E94
        Z
0224
2C7F
        Z
            Latin capital letter Z with swash tail; Africanist use; lowercase is 7, 0240
A<sub>7</sub>C6
       Z
             Latin capital letter Z with palatal hook; used in early Pinyin romanization; lowercase
2C6B
        Z
             uppercase Z with descender (for Uighur)
ooFE
            lowercase thorn
        þ
            lowercase thorn with stroke
A765
        þ
            lowercase thorn with stroke through descender
A<sub>7</sub>6<sub>7</sub>
        þ
ooDE Þ
            uppercase thorn
       Þ
            uppercase thorn with stroke
A764
            uppercase thorn with stroke through descender
A<sub>7</sub>66
       Þ
            lowercase yogh; do not confuse with lowercase abbreviation et, 3, A76B
021D
        3
            uppercase yogh; do not confuse with uppercase abbreviation ET, 3, A<sub>7</sub>6A
021C
        3
01BF
        р
            lowercase wynn; uppercase is P, 01F7
01F7
        p
            uppercase wynn; lowercase is p, 01BF
A769
       γ
            lowercase vend (Old Norse)
A<sub>7</sub>68
        V
            uppercase vend (Old Norse)
            lowercase ezh; IPA voiced postalveolar fricative; uppercase is 3, 01B7
0292
```

- 1D23 3 small capital ezh; linguistic use only
- 1DBE 3 modifier letter small ezh; superscript; linguistic use only
- o1B7 3 uppercase ezh; lowercase is 3, 0292
- 01B9  $\xi$  lowercase ezh reversed; uppercase is  $\xi$ , 01B8
- 01B8 Σ uppercase ezh reversed; lowercase is 5, 01B9
- οιΕF ǯ lowercase ezh with caron; uppercase is ǯ, οιΕΕ
- 01EE Š uppercase ezh with caron; lowercase is ž, 01EF
- 0293 g ezh with curl; no uppercase
- o1BA 3 ezh with tail; no uppercase
- 1D9A 3 lowercase ezh with retroflex hook
- A<sub>7</sub>6B 3 lowercase abbreviation et; also used in the -q<sub>3</sub> (-que) abbreviation; do not confuse with lowercase yogh, 3, 021D, or with digit 3
- A76A 3 uppercase abbreviation ET; do not confuse with uppercase yogh, 3, 021C, or with digit 3
- A<sub>7</sub>6D f lowercase abbreviation is; do not confuse with lowercase f with hook, f, 0192, or with lowercase dotless j with stroke and hook, f, 0284
- A<sub>7</sub>6C f uppercase abbreviation IS
- A778 \$ lowercase abbreviation um
- o294 ? glottal stop; IPA glottal plosive; a caseless letter; casing variants: 2, 0242, and 2, 0241
- o242 2 lowercase glottal stop; uppercase is ?, o241; caseless glottal stop is ?, o294
- 0241 ? uppercase glottal stop; lowercase is 2, 0242; caseless glottal stop is ?, 0294
- o2Co 's superscript, typographical alternate for', o2BE
- 0295 S reversed glottal stop; IPA voiced pharyngeal fricative; no uppercase
- o2E4  $^{\varsigma}$  superscript version of o295, the reversed glottal stop; IPA pharyngealized; compare  $^{\varsigma}$ ,
- o2C1 superscript, typographical alternate for ', o2BF; compare ', o2E4: superscript reversed glottal stop
- 0296 3 inverted glottal stop; lateral click; see also II, 01C1; no uppercase
- o2A1 ? glottal stop with stroke; IPA voiced epiglottal plosive; no uppercase
- 02A2 \ \ reversed glottal stop with stroke; IPA voiced epiglottal fricative; no uppercase
- oiBE t archaic phonetic for [ts] affricate; no uppercase
- A<sub>7</sub>8C ' Latin small letter saltillo; symbol for glottal stop; used in Me'phaa/Tlapanec; uppercase is ', A<sub>7</sub>8B
- A<sub>7</sub>8B ' Latin capital letter saltillo; symbol for glottal stop; used in Me'phaa/Tlapanec; lowercase is ', A<sub>7</sub>8C

## Combining characters, spacing modifier letters, and similarly-shaped characters and marks

- o357 ocombining right half ring above
- o2BE ' modifier letter right half ring; transliteration of Arabic hamza, Hebrew 'aleph
- A723 ; Latin small letter egyptological alef

- A722 3 Latin uppercase letter egyptological alef
- o2D2 modifier letter centred right half ring; more rounded articulation
- 0339 Ç combining right half ring below; IPA more rounded
- 0351 & combining left half ring above
- o2BF ' modifier letter left half ring; transliteration of Arabic 'ayn, Hebrew 'ayin
- A725 'Latin small letter egyptological ain
- A724 Latin uppercase letter egyptological ain
- 1D25 ♠ Latin letter ain
- 1D5C \* modifier letter small ain
- o2D3 c modifier letter centered left half ring; less rounded articulation
- 031C o combining left half ring below; IPA less rounded
- 0312 6 combining turned comma above
- o2BB ' modifier letter turned comma; Hawai'ian 'okina; do not confuse with ', 2018, left single quotation mark
- 0313 ΄ combining comma above; Greek smooth breathing (ψιλή or ψιλόν πνεῦμα)
- o486 combining cyrillic psili pneumata; used to compose egyptological yod: i and I plus gives i and I
- o2BC ' modifier letter apostrophe (various uses, but never that of apostrophe, which is 2019; IPA ejective); do not confuse with ', 1FBF, spacing Greek smooth breathing (ψιλή), or with ', 1FBD, spacing Greek χορωνίς
- o315 ് combining comma above right
- 0314 ὁ combining reversed comma above; Greek rough breathing (δασεῖα or δασύ πνεῦμα)
- o2BD ' modifier letter reversed comma (weak aspiration); do not confuse with ', 201B, single high-reversed-9 quotation mark, or with ', 1FFE, spacing Greek rough breathing  $(\delta \alpha \sigma \epsilon \hat{\imath} \alpha)$
- 0326 combining comma below
- o2C2 < modifier letter left arrowhead; this is a spacing character; fronted articulation; do not confuse with <, UPA modifier letter low left arrowhead, o2F1
- 1DFE & combining left arrowhead above
- o2F1 < UPA modifier letter low left arrowhead; do not confuse with <, modifier letter left arrowhead. o2C2
- o354 combining left arrowhead below
- o2C3 modifier letter right arrowhead; this is a spacing character; backed articulation; do not confuse with , UPA modifier letter low right arrowhead, o2F2
- 0350 combining right arrowhead above
- 0355 combining right arrowhead below
- 0356 combining right arrowhead and up arrowhead below
- 1DFF combining right arrowhead and down arrowhead below
- O2F2 > UPA modifier letter low right arrowhead; do not confuse with >, modifier letter right arrowhead, O2C3

- 0302 ô combining circumflex accent
- 1DCD  $\hat{\circ}$  combining double circumflex above; typed between the two letters to which it belongs
- oo5E ^ circumflex accent; this is a spacing character; combining circumflex accent is ô, o3o2; do not confuse with ^, modifier letter up arrowhead, o2C4, or ^, modifier letter circumflex accent, o2C6, or \_, upa modifier letter low up arrowhead, o2Fo, or \_, modifier letter low circumflex accent, A788
- o2C6 ^ modifier letter circumflex accent; this is a spacing character; various linguistic uses; combining circumflex accent is ô, o3o2; do not confuse with ^, circumflex, oo5E, or ^, modifier letter up arrowhead, o2C4, or ^ UPA modifier letter low up arrowhead, o2Fo, or ^ modifier letter low circumflex accent, A788
- 032D combining circumflex accent below
- A788 modifier letter low circumflex accent; this is a spacing character; linguistic use (tone marker in Akha and Lahu); combining circumflex accent below is of 032D; do not confuse with the UPA modifier letter low up arrowhead, 02F0, or of 005E, circumflex, or of modifier letter up arrowhead, 02C4, or of modifier letter circumflex accent, 02C6
- o2C4 ^ modifier letter up arrowhead; this is a spacing character; raised articulation; do not confuse with ^, 005E, circumflex, or ^, modifier letter circumflex accent, 02C6, or \_, UPA modifier letter low up arrowhead, 02F0, or \_, modifier letter low circumflex accent, A788
- o2Fo , UPA modifier letter low up arrowhead; do not confuse with ^, 005E, circumflex, or ^, modifier letter up arrowhead, 02C4, or ^, modifier letter circumflex accent, 02C6, or \_, modifier letter low circumflex accent, A788
- 030C č combining caron = háček; do not confuse with č, combining breve, 0306
- o2C7 caron = háček; this is a spacing character; combining caron/háček is ŏ, o3oC; do not confuse with ¬, modifier letter down arrowhead, o2C5, or ¬, IPA modifier letter voicing, o2EC, or ¬, UPA modifier letter low down arrowhead, o2EF
- o2C5 modifier letter down arrowhead; this is a spacing character; lowered articulation; do not confuse with , caron = háček, o2C7, or , modifier letter down arrowhead, o2C5, or , IPA modifier letter voicing, o2EC, or , UPA modifier letter low down arrowhead, o2EF
- 032C © combining caron below; IPA voiced
- o2EC IPA modifier letter voicing; do not confuse with ', caron = háček, o2C7, or ', modifier letter down arrowhead, o2C5, or ', UPA modifier letter low down arrowhead, o2EF
- o2EF v UPA modifier letter low down arrowhead; do not confuse with v, caron = háček, o2C7, or v, modifier letter down arrowhead, o2C5, or v, IPA modifier letter voicing, o2EC
- 0301 ΄ combining acute accent; may also be used as Greek ὀξεῖα and modern Greek τόνος; IPA high tone

- ooB4 ′ acute accent; this is a spacing character; compare ′, 02CA, modifier letter acute accent; combining acute accent is ὁ, 0301; do not confuse with ′, 0374, Greek numeral sign, δεξιὰ κεραία, or with ′, 2032, prime
- o2CA ′ modifier letter acute accent; this is a spacing character; compare ′, 00B4, acute accent; combining acute accent is ΄, 0301; do not confuse with ′, 0374, Greek numeral sign, δεξιὰ κεραία, or with ′, 2032, prime

  When used as the Chinantec mid tone mark, the glyph representing this character can be made strictly rectangular by applying the 'Chinantec' language attribute in certain applications, principally web browsers (for instance by using the CSS 'font-language-override' syntax and the 'CCHN' OpenType language system tag).
- ' Greek numeral sign, δεξιὰ κεραία; in the Milesian numeral system, put to the right of letters representing numbers; do not confuse with ', 00B4, spacing acute accent, or with ', 02CA, modifier letter acute accent, or with ', 2032, prime
- o317 combining acute accent below
- o2CF , modifier letter low acute accent; this is a spacing character; combining acute accent below is φ, 0317; do not confuse with ,, 0375, Greek lower numeral sign, ἀριστερὰ κεραία
- 0375 , Greek lower numeral sign, ἀριστερὰ κεραία; in the Milesian numeral system, put to the left of letters representing thousands
- 0300 \( \) combining grave accent; may also be used as Greek βαρεία; IPA low tone
- oo60 grave accent; this is a spacing character; combining grave accent is `, 0300; do not confuse with ', 2035, reversed prime
- modifier letter grave accent; this is a spacing character; compare `, 0060, grave accent; combining grave accent is ò, 0300; do not confuse with ', 2035, reversed prime When used as the Chinantec low rising tone mark, the glyph representing this character can be made strictly rectangular by applying the 'Chinantec' language attribute in certain applications, principally web browsers (for instance by using the css 'font-language-override' syntax and the 'CCHN' OpenType language system tag).
- 02F4 UPA modifier letter middle grave accent; this is a spacing character
- 0316 combining grave accent below
- o2CE modifier letter low grave accent; this is a spacing character; combining grave accent below is \$\circ\$, 0316
- 0308 ö combining diaeresis; IPA centralized
- ooA8 "diaeresis; this is a spacing character; combining diaeresis is "o308"
- 0324 combining diaeresis below; IPA breathy voiced
- o3o3 õ combining tilde; IPA nasalized; compare õ, 1DD1, combining 'ur' above (medievalist use)
- o360 ~ combining double tilde; typed between the two letters to which it belongs
- 1DD1 ~ combining 'ur' above; medievalist use

- 034A ő combining not tilde above
- 034B \* combining homothetic above
- 034C ී combining almost equal to above; compare ু, 1DFD
- oo7E ~ tilde; this is a spacing character; compare ~, o2DC, small tilde; ~, swung dash, 2053; and ~, 223C, tilde operator; combining tilde is ~, o303
- o2DC small tilde; this is a spacing character; compare ~, tilde, 007E; ~, swung dash, 2053; and ~, 223C, tilde operator; combining tilde is 5, 0303
- 033E & combining vertical tilde
- 2E2F 'vertical tilde; this is a spacing character, used for Cyrillic yerik
- 035B ံ combining zigzag above; compare ৃ combining zigzag below, 1DCF
- o334 combining tilde overlay; IPA velarized or pharyngealized; compare precomposed l, o26B, and n, 1D70
- 2053 ~ swung dash; this is a spacing character; compare ~, tilde, 007E; ~, 02DC, small tilde; and ~, 223C, tilde operator; combining tilde is ~, 0303
- 0330 combining tilde below; IPA creaky voiced
- O2F7 UPA modifier letter low tilde; this is a spacing character; combining tilde below is  $\circ$ , O33O
- 1DFD  $_{\circ}$  combining almost equal to below; indicates a strident vowel in Khoisan languages; compare  $\tilde{\circ}$ , 034C
- 1DDo o combining 'is' below; medievalist use
- 1DCF o combining zigzag below; compare o combining zigzag above, 035B
- 1DC2 o combining snake below
- 0304 ō combining macron; IPA mid tone
- o3o5 combining overline; connects on left and right
- 203E overline, spacing; connects on left and right
- 033F 5 combining double overline
- o2C9 modifier letter macron; this is a spacing character; combining macron is 5, 0304
- o335 ⊕ combining short stroke overlay
- o336 ⊕ combining long stroke overlay
- 0337 @ combining short solidus overlay
- 0338 ø combining long solidus overlay
- 0331 combining macron below
- o2CD \_ modifier letter low macron; this is a spacing character; compare \_, 005F, low line; combining macron below is 0, 0331
- 0332 combining low line; connects on left and right
- oo5F \_ low line = spacing underscore; compare \_, o2CD, modifier letter low macron; combining low line is o, o332
- $_{\odot}$ 5F  $_{\odot}$  combining double macron below; typed between the two letters to which it belongs

- 0333 combining double low line
- o306 č combining breve; IPA extra-short; do not confuse with č, combining caron = háček, o30C
- 0310 Č combining candrabindu
- o35D ~ combining double breve; typed between the two letters to which it belongs
- og61 combining double inverted breve = ligature tie; IPA tie bar above; typed between the two letters to which it belongs
- 2040 character tie, spacing; used between two characters to connect them
- o2D8 breve; metrical short; this is a spacing character; combining breve is 5, 0306
- 032E © combining breve below
- o35C  $\circ$  combining double breve below; IPA tie bar below; typed between the two letters to which it belongs
- 203F undertie, spacing; used between two characters to connect them
- 032F combining inverted breve below; IPA non-syllabic
- 1DFC combining double inverted breve below; typed between the two letters to which it belongs
- 2054 inverted undertie, spacing
- 030В ő combining double acute accent; IPA extra high tone
- o2DD " double acute accent; this is a spacing character; combining double acute accent is ", o3oB
- 02F6 " UPA modifier letter middle double acute accent; this is a spacing character
- 030F " combining double grave accent; IPA extra low tone
- 02F5 W UPA modifier letter middle double grave accent; this is a spacing character
- o3oA ° combining ring above; IPA voiceless, used when the base character has a descender (compare o, 0325, which is used in all other cases)
- o2DA ° ring above; this is a spacing character; combining ring above is °, o3oA; do not confuse with °, ooBo, degree sign, or °, 1D52, modifier letter small o, or °, ooBA, masculine ordinal; compare °, UPA modifier letter low ring, o2F3
- ooBo odegree sign; do not confuse with oo2DA, spacing ring above, or o, 1D52, modifier letter small o, or o, ooBA, masculine ordinal
- 25CB o white circle
- 25CC o dotted circle; used to indicate combining characters, with the dots representing the base character to which the combining character will be added: 25CC plus 0301 is rendered as  $\acute{\circ}$
- 25EF o large circle
- 2609 sun symbol; do not confuse with 0, 0298, bilabial click
- 0298 ① IPA bilabial click; no uppercase; do not confuse with 0, 2609, the sun symbol
- 2205 ∅ empty set; null morpheme; phonological zero; do not confuse with the letter Ø, ooD8, O slash

- o325 combining ring below; IPA voiceless (compare o, 030A, which is used when the base character has a descender)
- 02F3 UPA modifier letter low ring; this is a spacing character; compare °, ring above, 02DA
- o35A combining double ring below; used in Kharoṣṭhi transliteration
- 0352 6 combining fermata (musical notation)
- o358 i combining dot above right; used in Latin transliterations of Southern Min Chinese
- o2D9 dot above; this is a spacing character; combining dot above is 0, 0307
- 0323 combining dot below
- 0359 combining asterisk below
- 031В d combining horn; Vietnamese dấu móc
- o3oD & combining vertical line above
- o2C8 'modifier letter vertical line; this is a spacing character; IPA (primary) stress mark [compare ', o2B9]; downstep; precedes letter or syllable modified; combining vertical line above is \$\ddot\$, o3oD
- 0329 combining vertical line below; IPA syllabic
- o2CC modifier letter low vertical line; this is a spacing character; IPA secondary stress; combining vertical line below is 0, 0329
- o348 combining double vertical line below
- A717 " modifier letter dot vertical bar; Chinantec high ballistic tone mark
- A718 modifier letter dot slash; Chinantec mid ballistic tone mark
- A719 modifier letter dot horizontal bar; Chinantec low ballistic tone mark
- Modifier letter lower right corner angle; Chinantec high rising tone; do not confuse with \_, o2FC, upa modifier letter end low tone, or \_J, modifier letter extra-low tone bar, o2E9, or \_J, right floor mathematical delimiter, 230B, or \_J, bottom right quine corner, 231F, or \_J, bottom right half bracket, 2E25
- o2DE modifier letter rhotic hook; this is a spacing character; IPA rhotacized; see also ə, o25A, and ə, o25D
- 0328 combining ogonek
- o2DB ogonek; this is a spacing character; combining ogonek is \$\oldsymbol{9}\$, 0328
- 1DCE ở combining ogonek above
- 0327 combining cedilla
- ooB8 cedilla; this is a spacing character; combining cedilla is 0, 0327
- 0322 ় combining retroflex hook below
- 0321 g combining palatalized hook below
- 1DF<sub>5</sub> † combining up tack above; used in American lexicography

- o2D4 modifier letter up tack; this is a spacing character; vowel raising or closing; combining up tack above is \$\ddot\$, 1DF5; combining up tack below is \$\dip\$, 031D
- 031D ç combining up tack below; IPA raised
- 031E o combining down tack below; IPA lowered
- o2D5 modifier letter down tack; this is a spacing character; vowel lowering or opening; combining down tack below is o, 031E
- 0318 combining left tack below; IPA advanced tongue root
- 0319 combining right tack below; IPA retracted tongue root
- 02EB + Bopomofo modifier letter Yang departing tone mark
- 031F combining plus sign below; IPA advanced
- o2D6 + modifier letter plus sign; this is a spacing character; advanced or fronted articulation; combining plus sign below is \$\circ\$, 031F
- 0320 combining minus sign below; IPA retracted
- o2D7 modifier letter minus sign; this is a spacing character; linguistic use: retracted or backed articulation; minus sign is –, 2212
- 033D & combining x above; IPA mid-centralized
- o2DF  $^{\times}$  modifier letter cross accent; this is a spacing character; do not confuse with  $^{x}$ , modifier letter small  $^{x}$ , o2E3
- 0353 © combining x below
- 0346 5 combining bridge above
- o32A ្គ combining bridge below; IPA dental
- o2AD \( \begin{aligned} \begin
- o33A combining inverted bridge below; IPA apical
- 02FD UPA modifier letter shelf; this is a spacing character
- 02FE UPA modifier letter open shelf; this is a spacing character
- 1DD3 ŏ combining small letter flattened open a above
- 032B o combining inverted double arch below
- 033C combining seagull below; IPA linguolabial
- 1DC4 of combining macron-acute contour tone mark
- 1DC5 & combining grave-macron contour tone mark
- 1DC6 à combining macron-grave contour tone mark
- 1DC7 6 combining acute-macron contour tone mark
- 1DC8 ° combining grave-acute-grave contour tone mark
- 1DC9 ő combining acute-grave-acute contour tone mark
- 1DCB さ combining breve-macron contour tone mark
- 1DCC ♂ combining macron-breve contour tone mark
- o2E5 I modifier letter extra-high tone bar; this is a spacing character; do not confuse with ', UPA modifier letter end high tone, o2FA, or 'l, right ceiling mathematical delimiter, 2309, or 'l, top right quine corner, 231D, or 'l, top right half bracket, 2E23 see also 'l, o2E6; 'l, o2E8; 'l, o2E8; 'l, o2E9; compare [l, A712; 'l, A708; [l, A70D]

- O2FA UPA modifier letter end high tone; do not confuse with \(\bar{\cap}\), modifier letter extra-high tone bar, O2E5, or \(\bar{\cap}\), right ceiling mathematical delimiter, 23O9, or \(\bar{\cap}\), top right quine corner, 231D, or \(\bar{\cap}\), top right half bracket, 2E23
- right ceiling mathematical delimiter; do not confuse with 1, modifier letter extra-high tone bar, 02E5, or 1, UPA modifier letter end high tone, 02FA, or 1, top right quine corner, 231D, or 1, top right half bracket, 2E23
- top right quine corner; do not confuse with \( \), modifier letter extra-high tone bar, 02E5, or \( \), UPA modifier letter end high tone, 02FA, or \( \), right ceiling mathematical delimiter, 2309, or \( \), top right half bracket, 2E23
- top right half bracket; do not confuse with \(\cap \), modifier letter extra-high tone bar, 02E5, or \(\cap \), UPA modifier letter end high tone, 02FA, or \(\cap \), right ceiling mathematical delimiter, 2309, or \(\cap \), top right quine corner, 231D
- 031A document of combining left angle above; IPA not audibly released
- 0349 combining left angle below
- o2E6 1 modifier letter high tone bar; this is a spacing character; see also \(\cap{1}\), o2E5; \(\dag{1}\), o2E5; \(\dag{1}\), o2E5; \(\dag{1}\), o2E5; \(\dag{1}\), o2E7; \(\dag{1}\), A709; \(\dag{1}\), A70E
- o2E7 d modifier letter mid tone bar; this is a spacing character; see also \(\cap \), o2E5; \(\dagger \), o2E6; \(\dagger \), A70A; \(\dagger \), A70A; \(\dagger \), A70F
- o2E8 d modifier letter low tone bar; this is a spacing character; see also \(\cap \), o2E5; \(\dagger \), o2E6; \(\dagger \), A70B; \(\dagger \), A70B; \(\dagger \), A710
- o2E9 J modifier letter extra-low tone bar; this is a spacing character; do not confuse with J, right floor mathematical delimiter, 230B, or J, bottom right quine corner, 231F, or J, bottom right half bracket, 2E25 see also \( \cdot \), o2E6; \( \dagger \), o2E8; compare \( \L \), A716; \( \dagger \), A70C; \( \dagger \), A711
- O2FC J UPA modifier letter end low tone; do not confuse with J, modifier letter extra-low tone bar, O2E9, or J, right floor mathematical delimiter, 230B, or J, bottom right quine corner, 231F, or J, bottom right half bracket, 2E25, or J, modifier letter lower right corner angle, A71A
- right floor mathematical delimiter; do not confuse with J, modifier letter extra-low tone bar, 02E9, or J, upa modifier letter end low tone, 02FC, or J, bottom right quine corner, 231F, or J, bottom right half bracket, 2E25, or J, modifier letter lower right corner angle, A71A
- bottom right quine corner; do not confuse with <code>J</code>, modifier letter extra-low tone bar, <code>o2E9</code>, or <code>J</code>, <code>UPA</code> modifier letter end low tone, <code>o2FC</code>, or <code>J</code>, right floor mathematical delimiter, <code>230B</code>, or <code>J</code>, bottom right half bracket, <code>2E25</code>, or <code>J</code>, modifier letter lower right corner angle, <code>A71A</code>
- bottom right half bracket; do not confuse with J, modifier letter extra-low tone bar, o2E9, or \_, upa modifier letter end low tone, o2FC, or \_J, right floor mathematical delimiter, 230B, or \_J, bottom right quine corner, 231F, or \_J, modifier letter lower right corner angle, A71A

- left ceiling mathematical delimiter; do not confuse with \( \), modifier letter extra-high left-stem tone bar, A712, or \( \), UPA modifier letter begin high tone, 02F9, or \( \) , top left quine corner, 231C, or \( \), New Testament right angle substitution marker, 2E00, or \( \), top left half bracket, 2E22
- 02F9 Γ UPA modifier letter begin high tone; do not confuse with Γ, modifier letter extra-high left-stem tone bar, A712, or Γ, left ceiling mathematical delimiter, 2308, or Γ, top left quine corner, 231C, or Γ, New Testament right angle substitution marker, 2E00, or Γ, top left half bracket, 2E22
- top left quine corner; do not confuse with \(\Gamma\), modifier letter extra-high left-stem tone bar, A712, or \(\Gamma\), UPA modifier letter begin high tone, 02F9, or \(\Gamma\), left ceiling mathematical delimiter, 2308, or \(\Gamma\), New Testament right angle substitution marker, 2E00, or \(\Gamma\), top left half bracket, 2E22
- right angle substitution marker; used in some editions of the New Testament; do not confuse with Γ, modifier letter extra-high left-stem tone bar, A712, or Γ, UPA modifier letter begin high tone, o2F9, or Γ, left ceiling mathematical delimiter, 2308, or Γ, top left quine corner, 231C, or Γ, top left half bracket, 2E22
- 2Eo1 F right angle dotted substitution marker; used in some editions of the Greek New Testament
- top left half bracket; do not confuse with \( \Gamma\), modifier letter extra-high left-stem tone bar, A712, or \( \Gamma\), upa modifier letter begin high tone, 02F9, or \( \Gamma\), left ceiling mathematical delimiter, 2308, or \( \Gamma\), top left quine corner, 231C, or \( \Gamma\), New Testament right angle substitution marker, 2E00
- A713  $\uparrow$  modifier letter high left-stem tone bar; this is a spacing character; see also  $\Gamma$ , A712;  $\vdash$ , A714;  $\vdash$ , A715;  $\vdash$ , A716; compare  $\uparrow$ , 02E6;  $\vdash$ , A70E;  $\uparrow$ , A709
- A714 | modifier letter mid left-stem tone bar; this is a spacing character; see also \( \Gamma \), A712; \( \Gamma \), A713; \( \Gamma \), A715; \( \Gamma \), A716; compare \( \Gamma \), o2E7; \( \Gamma \), A70F; \( \Gamma \), A70A
- A715 | modifier letter low left-stem tone bar; this is a spacing character; see also \( \cap A712; \cap \), A713; \( \cap A713; \cap \), A716; compare \( \dagger \), o2E8; \( \cap A710; \dagger \), A70B
- A716 L modifier letter low left-stem tone bar; this is a spacing character; see also \( \Gamma \), A712; \( \Gamma \), A713; \( \Gamma \), A714; \( \Gamma \), A715; compare \( \J \), o2E9; \( \Gamma \), A711; \( \J \), A70C
- Does Define the Bopomofo modifier letter Yin departing tone mark; do not confuse with L, modifier letter low left-stem tone bar, A716, or L, UPA modifier letter begin low tone, 02FB, or L, left floor mathematical delimiter, 230A, or L , bottom left quine corner, 231E, or L, bottom left half bracket, 2E24

- 02FB  $_{\perp}$  UPA modifier letter begin low tone; do not confuse with  $_{\perp}$ , modifier letter low left-stem tone bar, A716, or  $_{\perp}$ , Bopomofo modifier letter Yin departing tone mark, 02EA, or  $_{\perp}$ , left floor mathematical delimiter, 230A, or  $_{\perp}$ , bottom left quine corner, 231E, or  $_{\parallel}$ , bottom left half bracket, 2E24
- left floor mathematical delimiter; do not confuse with L, modifier letter low left-stem tone bar, A716, or L, Bopomofo modifier letter Yin departing tone mark, 02EA, or L, UPA modifier letter begin low tone, 02FB, or L, bottom left quine corner, 231E, or L, bottom left half bracket, 2E24
- bottom left quine corner; do not confuse with L, modifier letter low left-stem tone bar, A716, or L, Bopomofo modifier letter Yin departing tone mark, O2EA, or L, UPA modifier letter begin low tone, O2FB, or L, left floor mathematical delimiter, 230A, or L, bottom left half bracket, 2E24
- bottom left half bracket; do not confuse with L, modifier letter low left-stem tone bar, A716, or L, Bopomofo modifier letter Yin departing tone mark, 02EA, or L, UPA modifier letter begin low tone, 02FB, or L, left floor mathematical delimiter, 230A, or L , bottom left quine corner, 231E
- 2Eo2 left substitution bracket; used in some editions of the Greek New Testament
- 2Eo3 right substitution bracket; used in some editions of the Greek New Testament
- 2Eo4 f left dotted substitution bracket; used in some editions of the Greek New Testament
- 2Eo5 in right dotted substitution bracket; used in some editions of the Greek New Testament
- 2Eo8 <sup>5</sup> dotted transposition marker; used in some editions of the Greek New Testament
- 2Eog <sup>5</sup> left transposition bracket; used in some editions of the Greek New Testament
- 2EoA right transposition bracket; used in some editions of the Greek New Testament
- 2Eo6 <sup>T</sup> raised interpolation marker; used in some editions of the Greek New Testament
- $_{2}$ Eo7  $_{7}$  raised dotted interpolation marker; used in some editions of the Greek New Testament
- 2EoB <sup>n</sup> raised square; used in some editions of the Greek New Testament as an opening raised omission bracket
- 033В g combining square below; IPA laminal
- 02FF UPA modifier letter low left arrow; this is a spacing character
- o<sub>34</sub>D ♀ combining left right arrow below
- 034E combining upwards arrow below
- o362 combining double rightwards arrow below; typed between the two letters to which it belongs
- 2190 ← leftwards arrow; compare ☜, 261C, white left pointing index
- upwards arrow; IPA upstep; compare ₤, 261D, white up pointing index; do not confuse with ↑, A71B, modifier letter raised up arrow
- A71B † modifier letter raised up arrow; Africanist use, tone letter; do not confuse with ↑, 2191, upwards arrow
- 2192 → rightwards arrow; compare ☞, 261E, white right pointing index

- downwards arrow; IPA downstep; compare √, 261F, white down pointing index; do not confuse with √, A71C, modifier letter raised downwards arrow
- A71C ↓ modifier letter raised down arrow; Africanist use, tone letter; do not confuse with ↓, 2193, downwards arrow
- 2194 ↔ left right arrow
- 2195 \$ up down arrow
- 2196 \ north west arrow
- 2197 ✓ north east arrow; IPA global rise; compare ∠, 2650, sagittarius (zodiacal symbol)
- 2198 > south east arrow; IPA global fall
- 2199 

  ✓ south west arrow
- 219A # leftwards arrow with stroke
- 219B → rightwards arrow with stroke
- 21Do ← leftwards double arrow
- 21D2 ⇒ rightwards double arrow
- A71D ! modifier letter raised exclamation mark; Africanist use, tone letter
- A71E i modifier letter raised inverted exclamation mark; Africanist use, tone letter
- A71F i modifier letter low inverted exclamation mark; Africanist use, tone letter
- A789 : modifier letter colon; used as a tone letter in some orthographies; do not confuse with the punctuation mark : colon, 003A, or with : modifier letter triangular colon, 02D0
- A78A = modifier letter short equals sign; used as a tone letter in some orthographies; do not confuse with = double hyphen (a punctuation mark), 2E40, or with = equals sign, 003D, or with = Roman sextans sign, 10190
- A78F Latin letter sinological dot; used in transliteration of 'Phags-Pa and in phonetic transcription of Tangut; do not confuse with  $\cdot$  middle dot, ooB7
- A700 c modifier letter Chinese tone yin ping
- A701 , modifier letter Chinese tone yang ping
- A<sub>7</sub>O<sub>2</sub> ' modifier letter Chinese tone vin shang
- A<sub>703</sub> f modifier letter Chinese tone yang shang
- A<sub>704</sub> , modifier letter Chinese tone yin qu
- A<sub>705</sub> , modifier letter Chinese tone yang qu
- A<sub>7</sub>06 ' modifier letter Chinese tone vin ru
- A<sub>707</sub> modifier letter Chinese tone yang ru
- A<sub>70</sub>8 | modifier letter extra-high dotted tone bar; compare | , A<sub>70</sub>D; |, 02E<sub>5</sub>; |, A<sub>712</sub>
- A<sub>7</sub>o<sub>9</sub> | modifier letter high dotted tone bar; compare |, A<sub>7</sub>oE; |, o<sub>2</sub>E<sub>6</sub>; |, A<sub>7</sub>1<sub>3</sub>
- A70A | modifier letter mid dotted tone bar; compare |, A70F; |, 02E7; |, A714
- A<sub>70</sub>B | modifier letter low dotted tone bar; compare |, A<sub>710</sub>; |, 02E8; |, A<sub>715</sub>
- A70C .l modifier letter extra-low dotted tone bar; compare l., A711; J, o2E9; L, A716
- A70D | modifier letter extra-high dotted left-stem tone bar; compare 1, A708; 1, 02E5; 1, A712
- A70E | modifier letter high dotted left-stem tone bar; compare 1, A709; 1, 02E6; 1, A713
- A70F | modifier letter mid dotted left-stem tone bar; compare 1, A70A; 1, 02E7; 1, A714

- A710 | modifier letter low dotted left-stem tone bar; compare |, A70B; |, 02E8; |, A715
- A711 l. modifier letter extra-low dotted left-stem tone bar; compare .l, A70C; J, 02E9; L, A716

# Digits, numbers, and mathematical operators, plus similarly-shaped characters

- 0030 o digit zero
- 2070 <sup>0</sup> superscript zero
- 2080 <sub>0</sub> subscript zero
- 1F100 0. digit zero full stop
- 24EA ① circled digit zero
- 0031 1 digit one
- ooB9 1 superscript one
- 2081 <sub>1</sub> subscript one
- 215F <sup>1</sup>/ fraction numerator one
- 2488 1. digit one full stop
- 2474 (1) parenthesized digit one
- 2460 ① circled digit one
- 0032 2 digit two
- ooB2 <sup>2</sup> superscript two; squared
- 2082 2 subscript two
- 2489 2. digit two full stop
- 2475 (2) parenthesized digit two
- 2461 (2) circled digit two
- o1BB 2 two with stroke: archaic phonetic for [dz] affricate; no uppercase
- 0033 3 digit three
- ooB<sub>3</sub> <sup>3</sup> superscript three; cubed
- 2083 3 subscript three
- 248A 3. digit three full stop
- 2476 (3) parenthesized digit three
- 2462 ③ circled digit three
- A<sub>7</sub>6B  $_3$  lowercase abbreviation et; also used in the -q<sub>3</sub> (-que) abbreviation; do not confuse with digit  $_3$
- 0034 4 digit four
- 2074 <sup>4</sup> superscript four
- 2084 4 subscript four
- 248B 4. digit four full stop
- 2477 (4) parenthesized digit four
- 2463 4 circled digit four
- 0035 5 digit five
- 2075 <sup>5</sup> superscript five
- 2085 5 subscript five

- 248C 5. digit five full stop
- 2478 (5) parenthesized digit five
- 2464 ⑤ circled digit five
- oiBD 5 Zhuang tone five; uppercase is 5, oiBC
- oiBC 5 Zhuang tone five; lowercase is 5, 0iBD
- 0036 6 digit six
- 2076 6 superscript six
- 2086 6 subscript six
- 248D 6. digit six full stop
- 2479 (6) parenthesized digit six
- 2465 6 circled digit six
- 0037 7 digit seven
- 2077 <sup>7</sup> superscript seven
- 2087 7 subscript seven
- 248E 7. digit seven full stop
- 247A (7) parenthesized digit seven
- 2466 (7) circled digit seven
- 0038 8 digit eight
- 2078 8 superscript eight
- 2088 8 subscript eight
- 248F 8. digit eight full stop
- 247B (8) parenthesized digit eight
- 2467 8 circled digit eight
- 0039 9 digit nine
- 2079 <sup>9</sup> superscript nine
- 2089 9 subscript nine
- 2490 9. digit nine full stop
- 247C (9) parenthesized digit nine
- 2468 9 circled digit nine
- A<sub>7</sub>6F 9 lowercase abbreviation con
- A<sub>77</sub>0 9 superscript modifier letter us (abbreviation)
- 1DD2 & combining 'us' above; medievalist use
- A<sub>7</sub>6E 9 uppercase abbreviation CON
- 2491 10. number ten full stop
- 247D (10) parenthesized number ten
- 2469 (10) circled number ten
- 2492 11. number eleven full stop
- 247E (11) parenthesized number eleven
- 246A (1) circled number eleven
- 2493 12. number twelve full stop

- 247F (12) parenthesized number twelve
- 246B (12) circled number twelve
- 2494 13. number thirteen full stop
- 2480 (13) parenthesized number thirteen
- 246C (13) circled number thirteen
- 2495 14. number fourteen full stop
- 2481 (14) parenthesized number fourteen
- 246D (14) circled number fourteen
- 2496 15. number fifteen full stop
- 2482 (15) parenthesized number fifteen
- 246E (15) circled number fifteen
- 2497 16. number sixteen full stop
- 2483 (16) parenthesized number sixteen
- 246F (16) circled number sixteen
- 2498 17. number seventeen full stop
- 2484 (17) parenthesized number seventeen
- 2470 (17) circled number seventeen
- 2499 18. number eighteen full stop
- 2485 (18) parenthesized number eighteen
- 2471 (18) circled number eighteen
- 249A 19. number nineteen full stop
- 2486 (19) parenthesized number nineteen
- 2472 (19) circled number nineteen
- 249B 20. number twenty full stop
- 2487 (20) parenthesized number twenty
- 2473 20 circled number twenty
- 2152 1/10
- 2151 1/9
- 215B 1/8
- 2150 1/7
- 2159 1/6
- 2155 1/5
- 00BC 1/4
- 2153 1/3
- 215C 3/8
- 2156 2/5
- 00BD ½
- 2157 3/5
- 215D 5/8
- 2154 2/3

ooBE 3/4 4/5 2158 5/6 215A 215E  $\frac{7}{8}$ % 0025 percent sign; do not confuse with 1, 2052, commercial minus sign commercial minus sign; do not confuse with %, 0025, percent sign 2052 % 2030 % per mille sign ‱ permyriad, per ten thousand sign 2031 2160 roman numeral one small roman numeral one 2170 2161 II roman numeral two ii small roman numeral two 2171 2162 Ш roman numeral three 2172 iii small roman numeral three roman numeral four 2163 IVsmall roman numeral four 2173 V roman numeral five 2164 small roman numeral five v 2174 2165 VI roman numeral six small roman numeral six 2175 roman numeral six late form 2185 2166 VII roman numeral seven vii small roman numeral seven 2176 2167 VIII roman numeral eight viii small roman numeral eight 2177 2168 IX roman numeral nine small roman numeral nine 2178 ix X roman numeral ten 2169 small roman numeral ten 2179 X roman numeral eleven 216A XI small roman numeral eleven 217A хi XII roman numeral twelve 216B 217B xii small roman numeral twelve 216C roman numeral fifty L 2186 Ţ roman numeral fifty early form

small roman numeral fifty

roman numeral one hundred

small roman numeral one hundred

217C

216D

217D

1

 $\mathsf{C}$ 

c

- 2183 O roman numeral reversed one hundred; apostrophic c; do not confuse with O, uppercase open O, 0186; Claudian antisigma; used in combination with C, 216D, and I, 2160, to form large numbers
- 2184 o Latin small letter reversed c; used only for the Claudian letter in inscriptions when editorial conventions require the use of a lowercase letter
- 216E D roman numeral five hundred
- 217E d small roman numeral five hundred
- 216F M roman numeral one thousand
- 217F m small roman numeral one thousand
- 2181 D roman numeran five thousand
- 2187 D roman numeral fifty thousand
- 10198 HS Roman sestertius sign
- 10199 H Roman dupondius sign
- 002B + plus sign
- 207A + superscript plus sign
- 208A + subscript plus sign
- 2212 minus sign; do not confuse with –, 10191, Roman uncia sign
- 207B superscript minus
- 208B \_ subscript minus
- 00B1 ± plus-minus sign; see also ∓ minus-or-plus sign, 2213
- 2213 ∓ minus-or-plus sign
- ooF7 ÷ division sign
- 00D7 × multiplication sign
- 22C5 · dot operator; in mathematics preferred to middle dot  $\cdot$  00B7 for denotation of multiplication
- oo3D = equals sign; do not confuse with =, 10190, Roman sextans sign, or with =, A78A, modifier letter short equals sign, or with =, 2E40, double hyphen (a punctuation mark), or with = double oblique hyphen, 2E17
- 2260 ≠ not equal to
- 207C = superscript equals sign
- 208C = subscript equals sign
- 0347 combining equals sign below
- 10190 = Roman sextans sign; do not confuse with =, 003D, equals sign, or with =, A78A, modifier letter short equals sign, or with =, 2E40, double hyphen (a punctuation mark), or with = double oblique hyphen, 2E17

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A78A
            modifier letter short equals sign; used as a tone letter in some orthographies; do not
            confuse with = double hyphen (a punctuation mark), 2E40, or with = equals sign,
            003D, or with = Roman sextans sign, 10190, or with > double oblique hyphen, 2E17
            IPA modifier letter unaspirated
02ED
            double low line
2017
            equal to by definition
225D
            approximately equal to
2245
            approximately but not actually equal tp
2246
            neither approximately nor actually equal to
2247
        ≇
            almost equal to
2248
            not almost equal to
2249
            less-than sign; correct characters for angle brackets are \langle \rangle, 27E8 and 27E9
003C
            greater-than sign; correct characters for angle brackets are \langle \ \rangle, 27E8 and 27E9
003E
            less-than or equal to
2264
        ≤
            greater-than or equal to
2265
        ≥
            not less-than
226E
        ≮
226F
            not greater-than
            neither less-than nor equal to
2270
        <u>≮</u>
            neither greater-than nor equal to
2271
        ≱
00AC
            NOT sign
2310
            reversed NOT sign; beginning of line (computer science)
            universal quantifier; see also ∧, 22Co
2200
        \forall
        \exists
            existential quantifier, existential operator; see also V, 22C1
2203
        ∄
            non-existence quantifier
2204
        \in
            is an element of
2208
            is not an element of
2209
            contains as member
220B
        \ni
            does not contain as member
220C
        ∌
2227
            logical conjunction
            logical disjunction
2228
            n-ary logical and; see also ∀, 2200
22C0
22C1
            n-ary logical or; see also ∃, 2203
            intersection in set theory
        \cap
2229
        U
            union in set theory
222A
            subset of; do not confuse with ⊂, left sideways U bracket, 2E26
2282
            superset of; do not confuse with ⊃, right sideways U bracket, 2E27
2283
        \supset
            not a subset of
2284
        ⊄
2285
        ⊅
            not a superset of
```

subset of or equal to superset of or equal to

2286

2287

 $\supseteq$ 

```
2288
            neither a subset of nor equal to
        ⊈
            neither a superset of nor equal to
2289
        ⊉
            normal subgroup of
22B2
            contains as normal subgroup
22B3
        \triangleright
            set minus, set difference; compare backslash (reverse solidus) \, 005C
2216
            diamond operator; see also lozenge ◊, 25CA, and white diamond ◊, 25C7
22C4
            lozenge; possibility in modal logic; see also white diamond \diamondsuit, 25C7, and diamond
25CA
        \Diamond
            operator , 22C4
25A1
        white square; various applications in logic; see also ballot box \Box, 2610
            end of proof; see also black square ■, 25Ao
220E
            right tack; turnstile; proves, implies, yields; reducible
22A2
            left tack; reverse turnstile; non-theorem, does not yield
22A3
            down tack, 'tee'; tautology: 'top', truth, verum
22A4
            up tack; contradiction: 'bottom', falsity, falsum
22A5
            models
22A7
        F
22A8
        F
            true
            left right double arrow; if and only if, 'iff'
21D4
            tilde operator; negation, not; do not confuse with ~, tilde, 007E, or with ~, swung dash,
223C
            2053
            not tilde
2241
        \sqrt{}
221A
221E
        \infty
221F
2220
        \angle
2221
        ٨
2222
        ∢
            integral (mathematical sign); do not confuse with f, 0283, lowercase esh
        ſ
222B
            partial differential
2202
        д
2206
        Δ
            mathematical difference or increment operator, or Laplace operator; symmetric
            difference; do not confuse with Δ, 0394, Greek uppercase Delta
            micro sign; do not confuse with μ, 03BC, Greek lowercase mu
ooB5
        П
            n-ary product
220F
        \sum
            n-ary summation
2211
            square image of (mathematical sign)
228F
        square original of (mathematical sign)
2290
        \Box
        circled plus (mathematical sign)
2295
        circled minus (mathematical sign)
2296
2297
        ⊗ circled times (mathematical sign)
229D
            circled dash (mathematical sign)
```

### Punctuation marks, plus similarly-shaped characters

oo2o space

ooAo NBSP, no-break space

202F NNBSP, narrow no-break space

 $\circ \circ 2C$  , comma; do not confuse with , (201A) single low-9 quotation mark; compare , (2E12),

ancient Greek ὑποδιαστολή

2E34 , raised comma

2E4C : medieval comma

2E4E : punctus elevatus mark

002E . full stop

2E<sub>33</sub> raised dot; position intermediate between full stop and middle dot

00B7 · middle dot; also used as the Greek high dot (ἄνω τελεία); do not confuse with • Latin

letter sinological dot, A<sub>7</sub>8F, or with · word separator middle dot, 2E<sub>31</sub>; see also · dot operator, 22C<sub>7</sub>, which in mathematics is preferred for denotation of multiplication

operator, 22C5, which in mathematics is preferred for denotation of multiplication

 $_2$ E31 · word separator middle dot; do not confuse with  $\cdot$  00B7, middle dot

2022 · bullet

2024 . one dot leader

2025 .. two dot leader

2026 ... horizontal ellipsis

2027 · hyphenation point

2023 · triangular bullet

02D1 · modifier letter half triangular colon; IPA half-length mark

003A : colon; do not confuse with : modifier letter colon, A789, or with : modifier letter

triangular colon, 02Do

o2F8 : UPA modifier letter raised colon; this is not a punctuation mark

205A : two dot punctuation; do not confuse with :, 1015B, Greek epigraphic Epidaurean 2

o2Do : modifier letter triangular colon; IPA length mark; do not confuse with punctuation

mark: colon, 003A, or with: modifier letter colon, A789

003B ; semicolon; also used as the Greek question mark

204F ; reversed semicolon

2E35 : turned semicolon

205D : tricolon

205E vertical four dots

2E3D vertical six dots

2056 : three dot punctuation

2E2A : two dots over one dot punctuation

2235 : because (mathematical sign)

2E2B : one dot over two dots punctuation

2234 : therefore (mathematical sign)

÷ four dot mark; textual highlighter or colophon 205B 2E2Csquared four dot punctuation :: proportion (mathematical sign) 2237 five dot punctuation; Greek πεντόγκιον; quincunx 2059 ∷ five dot mark 2E2D .:. dotted cross 205C #: 203B \* ancient Greek ἀστερίσκος 002A asterisk 204E low asterisk flower punctuation mark 2055 two asterisks aligned vertically 2051 asterism 2042 22C6 star operator (mathematical sign); when set superscript, linguistic symbol denoting a hypothetical word form ? question mark oo<sub>3</sub>F inverted question mark ooBF reversed question mark; punctus percontativus 2E2E ? ?? double question mark 2047 ?! question exclamation mark 2048 !? exclamation question mark 2049 P 203D interrobang ! exclamation mark; do not confuse with !, o1C3, alveolar click; compare !, A71D, 0021 modifier letter raised exclamation mark (Africanist use, tone letter) 01C3 alveolar click; see also  $\zeta$ , 0297; no uppercase; do not confuse with the exclamation mark! (0021); compare!, A71D, modifier letter raised exclamation mark (Africanist use, tone letter) inverted exclamation mark; compare i, A71E, modifier letter raised inverted ooAı exclamation mark and ;, A71F, modifier letter low inverted exclamation mark (Africanist use, tone letters) double exclamation mark 203C ooB6 pilcrow, paragraph sign reversed pilcrow sign 204B paragraphus mark 2E4D *Y* hyphen; minus; compare the dedicated hyphen (2012) and minus (2212) signs 002D discretionary hyphen ooAD hyphen 2010 non-breaking hyphen 2011 double oblique hyphen 2E17

2E4F

Cornish verse divider

2E40 double hyphen; used in transcription of old German mss.; "not intended for the representation of normal hyphens, whose doubled forms in Fraktur text are considered glyphic variants" (remark in Unicode code chart); do not confuse with = modifier letter short equals sign, A<sub>7</sub>8A, or with = equals sign, oo<sub>3</sub>D, or with = Roman sextans sign, 10190 hyphen bullet 2043 figure dash; do not confuse with -, 10191, Roman uncia sign 2012 EN dash; ancient Greek ὀβελός; metrical long; do not confuse with –, 10191, Roman 2013 uncia sign Roman uncia sign; do not confuse with -, 2012, figure dash, and -, 2013, EN dash 10191 EM dash 2014 two-em dash (omission dash) 2E3A three-em dash 2E3B 0028 left parenthesis superscript left parenthesis 207D subscript left parenthesis 208D right parenthesis 0029 superscript right parenthesis 207E 208E subscript right parenthesis left double parenthesis 2E28 right double parenthesis 2E29 )) Roman siliqua sign 10195 left square bracket 005B 005D right square bracket 27E6 mathematical left white square bracket; also used as an editorial sign mathematical right white square bracket; also used as an editorial sign 27E7 left square bracket with quill 2045 right square bracket with quill 2046 left vertical bar with quill; Nordic editorial mark: |deletion| in ms., and |dittography| 2E20 right vertical bar with quill; Nordic editorial mark: |deletion| in ms., and |dittography| 2E21 mathematical left angle bracket; also used as an editorial sign (and as such preferred 27E8 over <, 003C, less-than sign) this alternative glyph is available in Stylistic Set 5 mathematical right angle bracket; also used as an editorial sign (and as such preferred 27E9 over >, 003E, greater-than sign) this alternative glyph is available in Stylistic Set 5 mathematical left double angle bracket; (( )) are used in Latin epigraphy to mark text 27EA that is conjectured to have stood before a deletion took place 27EB mathematical right double angle bracket; (( )) are used in Latin epigraphy to mark text

that is conjectured to have stood before a deletion took place

left curly bracket, left brace 007B right curly bracket, right brace 007D 2E26 left sideways U bracket; do not confuse with *⊂*, subset of, 2282 right sideways U bracket; do not confuse with ⊃, superset of, 2283 2E27  $\supset$ left raised omission bracket; used in some editions of the Greek New Testament as an 2EoC opening or closing raised omission bracket right raised omission bracket; used in some editions of the Greek New Testament as 2EoD an opening or closing raised omission bracket 002F solidus, slash 2E4A dotted solidus = virgula suspensiva; indicates a medial disjunction more than solidus but less than punctus elevatus fraction slash, solidus 2044 division slash 2215 1019A + Roman as sign 1019B > Roman centurial sign reverse solidus, backslash; see also \, 2216, set minus 005C vertical line, vertical bar; do not confuse with I, o1Co, dental click, which is a letter and 007C not a punctuation mark 01C0dental click; see also 1, 0287; no uppercase; do not confuse with 1, 007C, vertical bar, which is a punctuation mark palatal click; see also 6, 0297; no uppercase 01C2broken bar ooA6 wiggly vertical line 2E3E double vertical line; do not confuse with  $\parallel$ , 01C1, lateral click, which is a letter and not 2016 a punctuation mark lateral click; see also 5, 0296; no uppercase; do not confuse with ||, 2016, double 01C1 Ш vertical line, which is a punctuation mark triple vertical bar delimiter 2980 apostrophe; neutral (vertical) glyph with mixed usage; '(2019) is preferred for 0027 apostrophe; preferred characters in English for paired single quotation marks are '(2018) and '(2019); do not confuse with ', 02B9, modifier letter prime 02B9 modifier letter prime; indicates primary stress [compare 02C8]; also a transliteration of the Cyrillic soft sign ε; do not confuse with ', 0027, apostrophe prime; do not confuse with ', ooB4, spacing acute accent, or with ', o2CA, modifier 2032 letter acute accent, or with ', 0374, Greek numeral sign, δεξιά κεραία reversed prime; do not confuse with ', 0060, grave accent, or with ', 02CB, modifier 2035

single low-9 quotation mark; do not confuse with the comma, 002C

2018

2019

201A

letter grave accent

left single quotation mark

right single quotation mark

- 201B 'single high-reversed-9 quotation mark
- oo22 " quotation mark; neutral (vertical), used as opening or closing quotation mark; preferred characters in English for paired double quotation marks are " (201C) and " (201D)
- 201C " left double quotation mark
- 201D "right double quotation mark; do not confuse with ", Nenets modifier letter double apostrophe, 02EE
- o2EE "Nenets modifier letter double apostrophe; do not confuse with ", right double quotation mark, 201D
- 201E " double low-9 quotation mark
- 201F " double high-reversed-9 quotation mark
- 2033 " double prime
- o2BA " modifier letter double prime; exaggerated/contrastive stress; transliteration of Cyrillic hard sign ъ
- 2034 " triple prime
- 2057 "" quadruple prime
- 2036 " reversed double prime
- 2037 " reversed triple prime
- 2038  $_{\Lambda}$  caret; compare  $_{\Lambda}$  (2041), caret insertion point
- 2039 < single left-pointing angle quotation mark
- $203A \rightarrow single right-pointing angle quotation mark$
- ooAB « left-pointing double angle quotation mark
- ooBB » right- pointing double angle quotation mark
- 204C black leftwards bullet
- 204D black rightwards bullet
- 2050 close up: editing mark
- caret insertion point; proofreader's mark; insert here; compare (2038), caret

### Various symbols including currency signs

- 0023 # number sign; hash
- ooA4 ¤ currency sign
- 20BF B Bitcoin sign
- 0024 \$ Dollar sign
- ooA2 ¢ cent sign; do not confuse with ¢, o23C, lowercase c with stroke
- 20AB d Dong sign (Vietnam)
- 20AC € Euro sign
- 0192 f (former) Dutch guilder
- 20B4 € Hryvnia sign (Ukraine)
- 20BA Ł Lira sign (Turkey)
- 20B6 It livre tournois; pre-Revolutionary French unit of account

```
£
           Pound sign; also (former Italian) Lira; compare £, 10192, Roman semuncia sign
ooA3
20BD ₽
           Ruble sign (Russia)
       ₹
20B9
           Indian Rupee sign
211E
       R
           recipe; cross ratio
00A5
      ¥
           Yen (Japan), Yuan (China) sign
0026
      &
          ampersand
204A
      ٦
           Tironian sign 'et'
A<sub>7</sub>6B
          lowercase abbreviation 'et'; also used in the -q3 (-que) abbreviation; do not confuse
      3
           with lowercase yogh, 3, 021D, or with digit 3
           uppercase abbreviation ET; do not confuse with uppercase yogh, 3, 021C, or with digit
A<sub>7</sub>6A
      3
           3
       §
          section sign
ooA7
          white diamond; see also lozenge 0, 25CA, which is used as a logical symbol; and
25C7
           diamond operator , 22C4
           black square; see also end of proof ■, 220E
25A0
       2610
           ballot box; checkbox; see also white square □, 25A1, which is used as a logical symbol
       alef symbol; do not use for Hebrew text
       8
2135
           bet symbol; do not use for Hebrew text
2136
       ב
214F
       symbol for Samaritan source
2312
           arc
25DC
           upper left quadrant circular arc
25DD `
           upper right quadrant circular arc
25DE
          lower right quadrant circular arc
25DF
          lower left quadrant circular arc
23D1
           metrical breve
23D2
          metrical long over short
           metrical short over long
23D3 ≥
23D5
     23D6

→ metrical two shorts joined

→ metrical triseme

23D7
23D8
      23D9
261C
          white left pointing index
           white up pointing index
261D
261E
           white right pointing index; fist (typographic term)
261F
           white down pointing index
2020
      †
           dagger
2021
       ‡
           double dagger
```

triple dagger

主

2E4B

- 271D † Latin cross
- 271F † outlined Latin cross
- 2671 † East Syriac cross
- 2720 \(\Psi\) Maltese cross
- 2626 † orthodox cross
- 2627 khi rho, Christogram
- 2628 † cross of Lorraine
- 2629 + cross of Jerusalem

- 262B W Farsi symbol
- 2638 ♦ wheel of dharma
- 262C ♥ ādi śakti or khaṇḍā
- 263D first quarter moon
- 263E ℂ last quarter moon
- 263F \quad Mercury
- 2640 ♀ female sign; Venus
- 2641 <sup>†</sup> earth
- 2642 ♂ male sign; Mars
- 2643 4 Jupiter
- 2644 <sup>†</sup> Saturn
- 2645 ⊌ Uranus
- 2646 ♥ Neptune
- 2647 Pluto
- 2649 & Taurus (zodiacal symbol)
- 264A II Gemini (zodiacal symbol)
- 264B © Cancer (zodiacal symbol)
- 264C ∂ Leo (zodiacal symbol)
- 264D Wrigo (zodiacal symbol)
- 264F M. Scorpio (zodiacal symbol)
- 2650 ✓ Sagittarius (zodiacal symbol)
- 2651 る Capricorn (zodiacal symbol)
- 2652 ≈ Aquarius (zodiacal symbol)
- 2653 H Pisces (zodiacal symbol)
- 267E ⊚ permanent paper sign
- 2694 × crossed swords; battleground (on maps)

- 26AD @ marriage symbol
- 2E19 🎉 palm branch; used as a separator

### Greek

- o<sub>3</sub>B<sub>1</sub> α lowercase alpha
- o3AC ά lowercase alpha with τόνος; also the preferred character for alpha with acute accent; the use of ά, 1F71, for alpha with acute accent, even in ancient texts, is dissuaded
- 1F71  $\dot{\alpha}$  lowercase alpha with acute accent ( $\dot{o}\xi\epsilon\hat{\iota}\alpha$ );  $\dot{\alpha}$ , o<sub>3</sub>AC, is the preferred character
- 1F70 α lowercase alpha with grave accent (βαρεῖα)
- 1FB6 α lowercase alpha with circumflex accent (περισπωμένη)
- 1F00 ἀ lowercase alpha with smooth breathing (ψιλή)
- 1F01  $\dot{\alpha}$  lowercase alpha with rough breathing (δασεία)
- 1FBo α lowercase alpha with breve (βραχύ)
- 1FB1 ā lowercase alpha with macron (μακρόν)
- 1F04 α lowercase alpha with smooth breathing and acute accent
- 1F05  $\ddot{\alpha}$  lowercase alpha with rough breathing and acute accent
- 1Fo2 α lowercase alpha with smooth breathing and grave accent
- 1Fo3  $\alpha$  lowercase alpha with rough breathing and grave accent
- 1Fo6  $\hat{\alpha}$  lowercase alpha with smooth breathing and circumflex accent
- 1F07  $\hat{\alpha}$  lowercase alpha with rough breathing and circumflex accent
- 1FB3 α lowercase alpha with iota subscript (ὑπογεγραμμένη)
- 1FB4 α lowercase alpha with acute accent and iota subscript
- 1FB2 α lowercase alpha with grave accent and iota subscript
- 1F80 & lowercase alpha with smooth breathing and iota subscript
- 1F81  $\dot{\alpha}$  lowercase alpha with rough breathing and iota subscript
- 1F84  $\ddot{\alpha}$  lowercase alpha with smooth breathing and acute accent and iota subscript
- 1F85  $\ddot{\alpha}$  lowercase alpha with rough breathing and acute accent and iota subscript

- 1F86 & lowercase alpha with smooth breathing and circumflex accent and iota subscript
- 1F87  $\hat{\alpha}$  lowercase alpha with rough breathing and circumflex accent and iota subscript
- 0391 A uppercase Alpha
- 0386 Ά uppercase Alpha with τόνος; also the preferred character for Alpha with acute accent; the use of Ά, 1FBB, for alpha with acute accent, even in ancient texts, is dissuaded
- 1FBB 'A uppercase Alpha with acute accent (ὀξεῖα); 'A, 0386, is the preferred character
- 1FBA 'A uppercase Alpha with grave accent (βαρεῖα)
- 1Fo8 'A uppercase Alpha with smooth breathing (ψιλή)
- 1Fo9 'A uppercase Alpha with rough breathing (δασεῖα)
- 1FB8 Å uppercase Alpha with breve (βραχύ)

Ā uppercase Alpha with macron (μακρόν) 1FB9 1FoC uppercase Alpha with smooth breathing and acute accent "A 1FoD "A uppercase Alpha with rough breathing and acute accent 1FoA Ϋ́ uppercase Alpha with smooth breathing and grave accent 1FoB A" uppercase Alpha with rough breathing and grave accent 1FoE ٩̈́ uppercase Alpha with smooth breathing and circumflex accent 1FoF ٩ uppercase Alpha with rough breathing and circumflex accent 1FBC Αι uppercase Alpha with iota adscript (προσγεγραμμένη) 1F88 Άι uppercase Alpha with smooth breathing and iota adscript uppercase Alpha with rough breathing and iota adscript 1F89 Άι 1F8C "At uppercase Alpha with smooth breathing and acute accent and iota adscript 1F8D "At uppercase Alpha with rough breathing and acute accent and iota adscript 1F8A "At uppercase Alpha with smooth breathing and grave accent and iota adscript 1F8B "At uppercase Alpha with rough breathing and grave accent and iota adscript 1F8E At uppercase Alpha with smooth breathing and circumflex accent and iota adscript 1F8F Au uppercase Alpha with rough breathing and circumflex accent and iota adscript lowercase beta; IPA voiced bilabial fricative 03B2 B curled beta symbol; not used for Greek text o<sub>3</sub>Do 10178 a three quarters sign (papyri) 0392 В uppercase Beta 03B3 Υ lowercase gamma Γ 0393 uppercase Gamma ŀ 10184 ounkia sign (papyri) 10188 τę gramma sign (papyri) δ lowercase delta 03B4 uppercase Delta; do not confuse with mathematical Δ, 2206, difference or increment Δ 0394 operator, or Laplace operator character variant Δ (for use as an acrophonic numeral) use Stylistic Set o3 lowercase epsilon 03B5 ε 03F5 lunate epsilon symbol; not used for Greek text 03F6 reversed lunate epsilon symbol; not used for Greek text Э lowercase epsilon with τόνος; also the preferred character for epsilon with acute o<sub>3</sub>AD έ accent; the use of  $\dot{\epsilon}$ , 1F73, for epsilon with acute accent, even in ancient texts, is dissuaded έ lowercase epsilon with acute accent ( $\delta \xi \hat{\epsilon} \hat{\alpha}$ );  $\dot{\epsilon}$ , 03AD, is the preferred character 1F73 lowercase epsilon with grave accent (βαρεῖα) 1F72 È 1F10 έ lowercase epsilon with smooth breathing (ψιλή) έ 1F11 lowercase epsilon with rough breathing (δασεῖα)

lowercase epsilon with smooth breathing and acute accent

ε̈́

1F14

ε̈́ lowercase epsilon with rough breathing and acute accent 1F15 ž 1F12 lowercase epsilon with smooth breathing and grave accent ŝ lowercase epsilon with rough breathing and grave accent 1F13 uppercase Epsilon E 0395 uppercase Epsilon with τόνος; also the preferred character for Epsilon with acute 0388 Έ accent; the use of 'E, 1FC9, for Epsilon with acute accent, even in ancient texts, is dissuaded uppercase Epsilon with acute accent (ὀξεῖα); Έ, 0388, is the preferred character 1FC9 Έ 1FC8 Έ uppercase Epsilon with grave accent (βαρεία) 1F18 Έ uppercase Epsilon with smooth breathing (ψιλή) Έ uppercase Epsilon with rough breathing  $(\delta \alpha \sigma \epsilon \hat{\imath} \alpha)$ 1F19 "E uppercase Epsilon with smooth breathing and acute accent 1F1C "E uppercase Epsilon with rough breathing and acute accent 1F1D 1F1A "E uppercase Epsilon with smooth breathing and grave accent uppercase Epsilon with rough breathing and grave accent 1F1B "E lowercase wau (or digamma) O3DD F metretes sign (papyri) 10181 F three obols sign (papyri) 1017E ſ 1017F four obols sign (papyri) five obols sign (papyri) 10180 o<sub>3</sub>DC F uppercase Wau (or Digamma) lowercase zeta 03B6 Z 0396 uppercase Zeta 03B7 lowercase eta η озАЕ lowercase eta with τόνος; also the preferred character for eta with acute accent; the use ή of  $\dot{\eta}$ , 1F75, for eta with acute accent, even in ancient texts, is dissuaded lowercase eta with acute accent (ὀξεῖα); ή, o<sub>3</sub>AE, is the preferred character 1F75 ή lowercase eta with grave accent (βαρεῖα) 1F74 ή 1FC6 lowercase eta with circumflex accent (περισπωμένη) ή ή lowercase eta with smooth breathing (ψιλή) 1F20 lowercase eta with rough breathing (δασεῖα) 1F21 ή ή lowercase eta with smooth breathing and acute accent 1F24 ή lowercase eta with rough breathing and acute accent 1F25 η̈ lowercase eta with smooth breathing and grave accent 1F22 lowercase eta with rough breathing and grave accent 1F23 ή 1F26 ή lowercase eta with smooth breathing and circumflex accent lowercase eta with rough breathing and circumflex accent 1F27 ή 1FC3 lowercase eta with iota subscript (ὑπογεγραμμένη) η 1FC4 ή lowercase eta with acute accent and iota subscript

lowercase eta with grave accent and iota subscript

1FC2

1FC7 lowercase eta with circumflex accent and iota subscript ĥ 1F90 lowercase eta with smooth breathing and iota subscript 'n 1F91 'n lowercase eta with rough breathing and iota subscript 1F94 ŋ lowercase eta with smooth breathing and acute accent and iota subscript ŋ 1F95 lowercase eta with rough breathing and acute accent and iota subscript 1F92 lowercase eta with smooth breathing and grave accent and iota subscript 1F93 lowercase eta with rough breathing and grave accent and iota subscript 1F96 lowercase eta with smooth breathing and circumflex accent and iota subscript 1F97 lowercase eta with rough breathing and circumflex accent and iota subscript 0397 Η uppercase Eta character variant Н (for use as an acrophonic numeral) use Stylistic Set o3 uppercase Eta with τόνος; also the preferred character for Eta with acute accent; the 0389 use of 'H, 1FCB, for Eta with acute accent, even in ancient texts, is dissuaded 1FCB Ή uppercase Eta with acute accent (ὀξεῖα); Ή, 0389, is the preferred character 1FCA Ή uppercase Eta with grave accent (βαρεῖα) 1F28 Ή uppercase Eta with smooth breathing (ψιλή) 1F29 Ή uppercase Eta with rough breathing (δασεῖα) 1F2C "H uppercase Eta with smooth breathing and acute accent 1F2D uppercase Eta with rough breathing and acute accent 1F2A uppercase Eta with smooth breathing and grave accent 1F2B uppercase Eta with rough breathing and grave accent 1F2E uppercase Eta with smooth breathing and circumflex accent 1F2F uppercase Eta with rough breathing and circumflex accent 1FCC uppercase Eta with iota adscript (προσγεγραμμένη) 1F98 'Hu uppercase Eta with smooth breathing and iota adscript 1F99 'Hı uppercase Eta with rough breathing and iota adscript 1F9C "Hu uppercase Eta with smooth breathing and acute accent and iota adscript 1F9D "Hu uppercase Eta with rough breathing and acute accent and iota adscript 1F9A "Hu uppercase Eta with smooth breathing and grave accent and iota adscript 1F9B "Hu uppercase Eta with rough breathing and grave accent and iota adscript 1F9E He uppercase Eta with smooth breathing and circumflex accent and iota adscript 1F9F He uppercase Eta with rough breathing and circumflex accent and iota adscript lowercase heta 0371 1-0370 ŀ uppercase Heta character variant Н (for use as an acrophonic numeral) use Stylistic Set o3 03B8 θ lowercase theta 0398 Θ uppercase Theta θ script theta symbol; not used for Greek text 03D1

03F4 uppercase Theta symbol; not used for Greek text θ lowercase iota 03B9 1FBE adscript iota (προσγεγραμμένη); do not use for Greek text but always input regular iota, 03B9 spacing iota subscript (spacing ὑπογεγραμμένη); compare combining subscript iota, φ, 037A 0345 combining iota subscript (combining ὑπογεγραμμένη); compare spacing iota subscript, 0345 o<sub>3</sub>AF ί lowercase iota with τόνος; also the preferred character for iota with acute accent; the use of i, 1F77, for iota with acute accent, even in ancient texts, is dissuaded lowercase iota with acute accent (ὀξεῖα); ί, ο3AF, is the preferred character 1F77 ì lowercase iota with grave accent (βαρεῖα) 1F76 ıFD6 lowercase iota with circumflex accent (περισπωμένη) î 1F30 ì lowercase iota with smooth breathing (ψιλή) 1F31 ί lowercase iota with rough breathing (δασεῖα) 1FDo ĭ lowercase iota with breve (βραχύ) lowercase iota with macron (μακρόν) 1FD1 ī ľ lowercase iota with smooth breathing and acute accent 1F34 ï 1F35 lowercase iota with rough breathing and acute accent 1F32 lowercase iota with smooth breathing and grave accent ï lowercase iota with rough breathing and grave accent 1F33 1F36 ĩ lowercase iota with smooth breathing and circumflex accent ĵ lowercase iota with rough breathing and circumflex accent 1F37 o<sub>3</sub>CA ï lowercase iota with διαλυτικά 0390 ΐ lowercase iota with διαλυτικά and τόνος; also the preferred character for iota with διαλυτικά and acute accent; the use of  $\ddot{\iota}$ , 1FD3, for iota with διαλυτικά and acute accent, even in ancient texts, is dissuaded ıFD3 lowercase iota with διαλυτικά and acute accent (ὀξεῖα); ΐ, 0390, is the preferred ΐ character 1FD2 lowercase iota with διαλυτικά and grave accent (βαρεία) lowercase iota with διαλυτικά and circumflex accent (περισπωμένη) 1FD7 I uppercase Iota 0399 character variant (for use as an acrophonic numeral) use Stylistic Set o3 uppercase Iota with τόνος; also the preferred character for Iota with acute accent; the 038A Ί use of 'I, 1FDB, for Iota with acute accent, even in ancient texts, is dissuaded 1FDB Ί uppercase Iota with acute accent (ὀξεῖα); Ί, 038A, is the preferred character 1FDA ľ uppercase Iota with grave accent (βαρεῖα) 1F38 Ί uppercase Iota with smooth breathing (ψιλή)

uppercase Iota with rough breathing (δασεῖα)

Ί

1F39

Ĭ 1FD8 uppercase Iota with breve (βραχύ) 1FDq uppercase Iota with macron (μακρόν) 1F3C "I uppercase Iota with smooth breathing and acute accent ıF3D "I uppercase Iota with rough breathing and acute accent ľ 1F3A uppercase Iota with smooth breathing and grave accent ıF3B ľ uppercase Iota with rough breathing and grave accent ۶I uppercase Iota with smooth breathing and circumflex accent 1F3E 1F3F ٩ uppercase Iota with rough breathing and circumflex accent озАА Ϊ uppercase Iota with διαλυτικά lowercase yot 03F3 j uppercase Yot 037F J озВА lowercase kappa script kappa symbol; not used for Greek text oзFo κ lowercase καί symbol; used as an ampersand 03D7 K uppercase Kappa 039A K kyathos base sign (papyri) 10182 K uppercase Καί symbol; used as an ampersand K o<sub>3</sub>CF λ lowercase lambda озВВ 039B Λ uppercase Lambda Greek lowercase mu; do not confuse with μ, ooB5, micro sign озВС μ micro sign; do not confuse with  $\mu$ , 03BC, Greek lowercase mu ooB5 μ 039C M uppercase Mu character variant (for use as an acrophonic numeral) use Stylistic Set o3 o<sub>3</sub>BD lowercase nu 039D N uppercase Nu ξ 03BE lowercase ksi ξ 10185 xestes sign (papyri) 039E Ξ uppercase Ksi o<sub>3</sub>BF lowercase omicron 0 lowercase omicron with  $\tau \acute{o} \nu o \varsigma$ ; also the preferred character for omicron with acute 03CC accent; the use of ό, 1F79, for omicron with acute accent, even in ancient texts, is dissuaded lowercase omicron with acute accent ( $\delta \xi \epsilon \hat{\alpha}$ );  $\delta$ , 03CC, is the preferred character 1F79 ó 1F78 lowercase omicron with grave accent (βαρεῖα) ò lowercase omicron with smooth breathing (ψιλή) 1F40 ဝ် lowercase omicron with rough breathing  $(\delta \alpha \sigma \epsilon \hat{\imath} \alpha)$ 1F41 1F44 lowercase omicron with smooth breathing and acute accent ő 1F45 lowercase omicron with rough breathing and acute accent

lowercase omicron with smooth breathing and grave accent

1F42

- 1F43 δ lowercase omicron with rough breathing and grave accent
- 039F O uppercase Omicron
- og8C 'O uppercase Omicron with τόνος; also the preferred character for Omicron with acute accent; the use of 'O, 1FF9, for Omicron with acute accent, even in ancient texts, is dissuaded
- 1FF9 'O uppercase Omicron with acute accent (ὀξεῖα); 'O, 038C, is the preferred character
- 1FF8 'O uppercase Omicron with grave accent (βαρεῖα)
- 1F48 'O uppercase Omicron with smooth breathing (ψιλή)
- 1F49 'O uppercase Omicron with rough breathing (δασεῖα)
- 1F4C "O uppercase Omicron with smooth breathing and acute accent
- 1F4D "O uppercase Omicron with rough breathing and acute accent
- 1F4A "O uppercase Omicron with smooth breathing and grave accent
- 1F4B "O uppercase Omicron with rough breathing and grave accent
- ogCo  $\pi$  lowercase pi
- 03D6 π technical pi symbol (so-called omega pi); not used for Greek text
- озАо П uppercase Pi
- озFB м lowercase san
- 03FA M uppercase San
- o<sub>3</sub>D<sub>9</sub> φ lowercase archaic qoppa
- o<sub>3</sub>D8 Ω uppercase archaic Qoppa
- озDF ч lowercase qoppa
- o3DE 4 uppercase Qoppa
- o<sub>3</sub>C<sub>1</sub> ρ lowercase rho
- 1FE<sub>4</sub> β lowercase rho with smooth breathing (ψιλή)
- 1FE<sub>5</sub> δ lowercase rho with rough breathing (δασεῖα)
- 03F1 \(\rho\) tailed rho symbol; not used for Greek text
- o<sub>3</sub>FC ρ rho with stroke symbol; used with abbreviations containing ρ
- 03A1 P uppercase Rho
- 1FEC 'P uppercase Rho with rough breathing (δασεία)
- o<sub>3</sub>C<sub>3</sub> σ lowercase sigma
- 03C2 ς lowercase final sigma; do not confuse with ς, 03DB, stigma
- 03F2 c lowercase lunate sigma
- 037C ε lowercase σίγμα περιεστιγμένον
- 037B ο lowercase ἀντίσιγμα
- 037D ο lowercase ἀντίσιγμα περιεστιγμένον
- 03A<sub>3</sub> Σ uppercase Sigma
- 03F9 C uppercase lunate Sigma
- 03FE C uppercase σίγμα περιεστιγμένον
- 03FD Ο uppercase ἀντίσιγμα
- 03FF 3 uppercase ἀντίσιγμα περιεστιγμένον

o<sub>3</sub>DB lowercase stigma; do not confuse with ς, o<sub>3</sub>C<sub>2</sub>, final sigma озDА С uppercase Stigma 03C4 lowercase tau tryblion base sign (papyri) 10189 P 03A4 T uppercase Tau lowercase upsilon 03C5 υ o<sub>3</sub>CD ύ lowercase upsilon with  $\tau \acute{o} vo \varsigma$ ; also the preferred character for upsilon with acute accent; the use of  $\dot{v}$ , 1F7B, for upsilon with acute accent, even in ancient texts, is dissuaded 1F7B lowercase upsilon with acute accent (ὀξεῖα); ύ, o<sub>3</sub>CD, is the preferred character 1F7A lowercase upsilon with grave accent (βαρεία) 1FE6 ΰ lowercase upsilon with circumflex accent (περισπωμένη) ΰ lowercase upsilon with smooth breathing (ψιλή) 1F50 1F51 ύ lowercase upsilon with rough breathing (δασεία) lowercase upsilon with breve (βραχύ) 1FE0 ŭ ΰ lowercase upsilon with macron (μακρόν) 1FE1 ű lowercase upsilon with smooth breathing and acute accent 1F54 ΰ lowercase upsilon with rough breathing and acute accent 1F55 lowercase upsilon with smooth breathing and grave accent 1F52 ΰ lowercase upsilon with rough breathing and grave accent 1F53 ΰ lowercase upsilon with smooth breathing and circumflex accent 1F56 lowercase upsilon with rough breathing and circumflex accent 1F57 озСВ lowercase upsilon with διαλυτικά ΰ озВо lowercase upsilon with διαλυτικά and τόνος; also the preferred character for upsilon with διαλυτικά and acute accent; the use of ΰ, 1FE3, for upsilon with διαλυτικά and acute accent, even in ancient texts, is dissuaded lowercase upsilon with διαλυτικά and acute accent (ὀξεῖα); ΰ, 03Bo, is the preferred 1FE3 character lowercase upsilon with διαλυτικά and grave accent (βαρεῖα) 1FE2 lowercase upsilon with διαλυτικά and circumflex accent (περισπωμένη) 1FE7 uppercase Upsilon 03A5 Y uppercase Upsilon with τόνος; also the preferred character for Upsilon with acute 038E Ύ accent; the use of 'Y, 1FEB, for Upsilon with acute accent, even in ancient texts, is dissuaded Ύ uppercase Upsilon with acute accent (ὀξεῖα); Y, 038E, is the preferred character 1FEB 1FEA Ϋ́ uppercase Upsilon with grave accent (βαρεῖα) uppercase Upsilon with rough breathing (δασεῖα) 1F59 Ϋ́ Ϋ́ 1FE8 uppercase Upsilon with breve (βραχύ) Ÿ 1FE9 uppercase Upsilon with macron (μακρόν)

uppercase Upsilon rough breathing and acute accent

1F5D

"Y

- 1F5B "Y uppercase Upsilon rough breathing and grave accent
- 1F5F °Y uppercase Upsilon rough breathing and circumflex accent
- 03AB Ϋ́ uppercase Upsilon with διαλυτικά
- o<sub>3</sub>C6 φ lowercase phi
- 03D5 φ technical phi symbol; not used for Greek text
- o3A6 Ф uppercase Phi
- o3C7  $\chi$  lowercase khi; do not confuse with  $\chi$ , AB53, Latin small letter khi (used in IPA), which is not to be used for Greek text notice the reversed positions of the straight and the curved 'legs' of the character
- o<sub>3</sub>A<sub>7</sub> X uppercase Khi; do not confuse with X, A<sub>7</sub>B<sub>3</sub>, Latin uppercase khi, which is not to be used for Greek text notice how the Latin letter extends below the baseline, whereas the Greek does not

#### character variant

- X (for use as an acrophonic numeral) use Stylistic Set 03
- o<sub>3</sub>C8 ψ lowercase psi
- o3A8 Ψ uppercase Psi
- o3C9  $\omega$  lowercase omega; do not confuse with  $\omega$ , A7B7, Latin small letter omega, which is not to be used for Greek text
- 10177 ω two thirds sign (papyri)
- o<sub>3</sub>CE  $\dot{\omega}$  lowercase omega with τόνος; also the preferred character for omega with acute accent; the use of  $\dot{\omega}$ , 1F<sub>7</sub>D, for omega with acute accent, even in ancient texts, is dissuaded
- 1F7D  $\dot{\omega}$  lowercase omega with acute accent ( $\dot{o}\xi\epsilon\hat{\iota}\alpha$ );  $\dot{\omega}$ , o<sub>3</sub>CE, is the preferred character
- $1F_7C$   $\dot{\omega}$  lowercase omega with grave accent (βαρεία)
- 1F60 ω lowercase omega with smooth breathing (ψιλή)
- 1F61 ώ lowercase omega with rough breathing (δασεῖα)
- 1F64 α lowercase omega with smooth breathing and acute accent
- 1F62 α lowercase omega with smooth breathing and grave accent
- $_{1}$ F66  $\hat{\omega}$  lowercase omega with smooth breathing and circumflex accent
- 1F67 & lowercase omega with rough breathing and circumflex accent
- 1FF3 ω lowercase omega with iota subscript (ὑπογεγραμμένη)
- 1FF4  $\phi$  lowercase omega with acute accent and iota subscript
- 1FF2  $\dot{\omega}$  lowercase omega with grave accent and iota subscript
- 1FAο & lowercase omega with smooth breathing and iota subscript
- 1FA4  $\ddot{\phi}$  lowercase omega with smooth breathing and acute accent and iota subscript

- 1FA2 ἢ lowercase omega with smooth breathing and grave accent and iota subscript
- 1FA3  $\,$   $\,$   $\,$   $\,$  lowercase omega with rough breathing and grave accent and iota subscript
- 1FA6  $\dot{\phi}$  lowercase omega with smooth breathing and circumflex accent and iota subscript
- 1FA7 & lowercase omega with rough breathing and circumflex accent and iota subscript
- o3A9  $\Omega$  uppercase Omega; compare  $\Omega$ , 2126, Ohm sign; do not confuse with  $\omega$ , A7B6, Latin uppercase Omega, which is not to be used for Greek text
- 2126  $\Omega$  Ohm sign; preferred representation is  $\Omega$ , 03A9
- 038F  $'\Omega'$  uppercase Omega with  $\tau\acute{o}\nu o\varsigma$ ; also the preferred character for Omega with acute accent; the use of  $'\Omega$ , 1FFB, for Omega with acute accent, even in ancient texts, is dissuaded
- 1FFB 'Ω uppercase Omega with acute accent (ὀξεῖα); 'Ω, 038F, is the preferred character
- 1FFA 'Ω uppercase Omega with grave accent (βαρεῖα)
- 1F68 'Ω uppercase Omega with smooth breathing (ψιλή)
- 1F69 'Ω uppercase Omega with rough breathing (δασεῖα)
- 1F6C " $\Omega$ " uppercase Omega with smooth breathing and acute accent
- 1F6D " $\Omega$  uppercase Omega with rough breathing and acute accent
- $^{1}F6A$   $^{\circ}\Omega$  uppercase Omega with smooth breathing and grave accent
- 1F6B " $\Omega$ " uppercase Omega with rough breathing and grave accent
- 1F6E  $\Omega$  uppercase Omega with smooth breathing and circumflex accent
- 1F6F  $\Omega$  uppercase Omega with rough breathing and circumflex accent
- 1FFC Ωι uppercase Omega with iota adscript (προσγεγραμμένη)
- 1FA8 'Ωι uppercase Omega with smooth breathing and iota adscript
- 1FA9 'Ωι uppercase Omega with rough breathing and iota adscript
- 1FAC "Ωι uppercase Omega with smooth breathing and acute accent and iota adscript
- 1FAD "Ωι uppercase Omega with rough breathing and acute accent and iota adscript
- 1FAA "Ωι uppercase Omega with smooth breathing and grave accent and iota adscript
- 1FAB "Ωι uppercase Omega with rough breathing and grave accent and iota adscript
- 1FAE <sup>3</sup>Ωι uppercase Omega with smooth breathing and circumflex accent and iota adscript
- 1FAF <sup>°</sup>Ωι uppercase Omega with rough breathing and circumflex accent and iota adscript
- o<sub>3</sub>E<sub>1</sub> } lowercase sampi
- o<sub>3</sub>Eo λ uppercase Sampi
- 0373 7 lowercase archaic sampi
- 0372 T uppercase archaic Sampi
- 0377 и lowercase Pamphylian digamma
- 0376 И uppercase Pamphylian Digamma
- 03F8 b lowercase Bactrian sho
- 03F7 D Bactrian uppercase Sho
- 0301 ΄ combining acute accent: used as Greek combining acute accent (ὀξεῖα) and combining (modern) τόνος
- 0384 ' spacing (modern) τόνος; do not confuse with ', 0374, numeral sign (δεξιὰ κεραία)

- 1FFD ' spacing acute accent (ὀξεῖα); do not confuse with ', 0374, numeral sign (δεξιὰ κεραία)
- 0300  $\,$   $\,$  combining grave accent: used as Greek combining grave accent  $(\beta\alpha\rho\epsilon\hat{\imath}\alpha)$
- 1FEF ' spacing grave accent (βαρε $\hat{i}$ α)
- 1FCo spacing circumflex accent (περισπωμένη)
- 0313 ' combining comma above: used as combining smooth breathing (ψιλή)
- 1FBF ' spacing smooth breathing (ψιλή); do not confuse with ', 2019, apostrophe, or with 02BC, modifier letter apostrophe (IPA ejective), or with ', 1FBD, spacing κορωνίς
- 0343 ἀ combining κορωνίς, used rarely (limited to cases of crasis, like κἀγώ): a smooth breathing ὁ, 0313, is normally used instead
- 1FBD ' spacing κορωνίς; do not confuse with ', 2019, apostrophe, or with 02BC, modifier letter apostrophe (IPA ejective), or with ', 1FBF, spacing smooth breathing (ψιλή)
- 1FFE 'spacing rough breathing ( $\delta\alpha\sigma\epsilon\hat{\iota}\alpha$ ); do not confuse with ', 02BD, modifier letter reversed comma (weak aspiration), or with ', 201B, single high-reversed-9 quotation mark, or with ', 2018, left single quotation mark
- 1FCE " spacing ψιλή and ὀξεῖα
- 1FDE " spacing δασεῖα and ὀξεῖα
- 1FCD " spacing ψιλή and βαρεῖα
- 1FDD " spacing δασεία and βαρεία
- 1FCF <sup>°</sup> spacing ψιλή and περισπωμένη
- 1FDF spacing δασεία and περισπωμένη
- 1FC1 ° spacing διαλυτικά and περισπωμένη
- 0344 <sup>†</sup> combining διαλυτικά τόνος: its use is discouraged, use <sup>†</sup> 0308 plus <sup>†</sup> 0301 instead
- 0385 \* spacing διαλυτικά and τόνος
- 1FEE \* spacing διαλυτικά and ὀξεῖα
- 2E13 / dotted ὀβελός
- 1FED \* spacing διαλυτικά and βαρεία
- 0387 · Greek high dot (ἄνω τελεία); middle dot · (00B7) is now the preferred character
- 003B ; semicolon; also used as the Greek question mark
- 037E ; Greek question mark: its use is now discouraged, use the semicolon (003B) instead
- 0374 ' numeral sign, δεξιὰ κεραία; in the Milesian numeral system, put to the right of letters representing numbers; do not confuse with ', 0384, the spacing (modern) τόνος, or with ', 1FFD, the spacing acute accent (ὀξεῖα)
- o375 , lower numeral sign, ἀριστερὰ κεραία; in the Milesian numeral system, put to the left of letters representing thousands

```
ancient Greek ἀστερίσκος
203B
           five dot punctuation; Greek πεντόγκιον; quincunx
2059
       ::
           combining double breve below: used to mark synizesis, as in Πηληϊάδεω; set between
035C
           the two characters to be tied together
2013
           the EN dash is used for metrical long; also for ancient Greek ὀβελός; do not confuse
           with -, 10191, Roman uncia sign
23D1
           metrical breve
           metrical long over short
23D2
23D3
           metrical short over long
      = metrical long over two shorts
23D4
23D5
      23D6

→ metrical two shorts joined

23D7
       — metrical triseme
23D8
       23D9
           Attic 1/4 (epigraphy)
      )
10140
           Attic ½ (epigraphy)
       (
10141
           Attic one drachma (epigraphy)
      F
10142
           Attic 1 (this OpenType glyph variant is accessed in Stylistic Set 03)
       0399
10143
       П
           Attic 5 (epigraphy)
       Δ
           Attic 10 (this OpenType glyph variant is accessed in Stylistic Set 03)
0394
0370
       Н
           Attic 100 (uppercase Heta; this OpenType glyph variant is accessed in Stylistic Set 03)
       Н
           Attic 100 (uppercase Eta; this OpenType glyph variant is accessed in Stylistic Set 03)
0397
03A7
       Χ
           Attic 1,000 (this OpenType glyph variant is accessed in Stylistic Set 03)
           Attic 10,000 (this OpenType glyph variant is accessed in Stylistic Set 03)
039C
       Μ
       ΔΙ
           Attic 50 (epigraphy)
10144
       П
           Attic 500 (epigraphy)
10145
           Attic 5,000 (epigraphy)
10146
       М
           Attic 50,000 (epigraphy)
10147
           Attic 5 talents (epigraphy)
10148
           Attic 10 talents (epigraphy)
       Д
10149
       취
           Attic 50 talents (epigraphy)
1014A
1014B H
           Attic 100 talents (epigraphy)
1014C
       H
           Attic 500 talents (epigraphy)
1014D X
           Attic 1,000 talents (epigraphy)
       쥐
1014E
           Attic 5,000 talents (epigraphy)
1014F
           Attic 5 staters (epigraphy)
           character variant
       SI
           (with three-bar sigma) use Stylistic Set 04
```

```
Attic 10 staters (epigraphy)
10150
       Ž
            character variant
            (with three-bar sigma) use Stylistic Set 04
            Attic 50 staters (epigraphy)
10151
            character variant
            (with three-bar sigma) use Stylistic Set 04
            Attic 100 staters (epigraphy)
10152
            character variant
       5
            (with three-bar sigma) use Stylistic Set 04
            Attic 500 staters (epigraphy)
10153
       À
            character variant
       IJ
            (with three-bar sigma) use Stylistic Set 04
            Attic 1,000 staters (epigraphy)
10154
            character variant
       X
            (with three-bar sigma) use Stylistic Set 04
            Attic 10,000 staters (epigraphy)
10155
            character variant
            (with three-bar sigma) use Stylistic Set 04
       M
10156
            Attic 50,000 staters (epigraphy)
            character variant
            (with three-bar sigma) use Stylistic Set 04
            Attic 10 mnas (epigraphy)
10157
            Heraeum 1 plethron (epigraphy)
10158
10159
       Þ
            Thespian 1 (epigraphy)
            Hermionian 1 (epigraphy)
1015A P
            Epidaurean 2 (epigraphy); do not confuse with:, 205A, two dot punctuation
1015B
            Thespian 2 (epigraphy)
1015C 5
            Cyrenaic 2 drachmas (epigraphy)
1015D [
            Epidaurean 2 drachmas (epigraphy)
1015E
       रा
            Troezenian 5 (epigraphy)
1015F
            Troezenian 10 (epigraphy)
10160
       3
       X
            Troezenian 10, alternate form (epigraphy)
10161
            Hermionian 10 (epigraphy)
10162
       \Lambda
10163
            Messenian 10 (epigraphy)
       \wedge
            Thespian 10 (epigraphy)
10164
       Ð
       Ð
            Thespian 30 (epigraphy)
10165
            Troezenian 50 (epigraphy)
10166
10167
       31
            Troezenian 50, alternate form (epigraphy)
10168
       Ν
            Hermionian 50 (epigraphy)
       ΙĒ
            Thespian 50 (epigraphy)
10169
```

```
1016A H
            Thespian 100 (epigraphy)
1016B
       ŦF
            Thespian 300 (epigraphy)
       ┖
1016C
            Epidaurean 500 (epigraphy)
            Troezenian 500 (epigraphy)
1016D □
            Thespian 500 (epigraphy)
1016E
       Πŧ
            Carystian 500 (epigraphy)
1016F
10170
       \mathbf{H}
            Naxian 500 (epigraphy)
10171
       Ψ
            Thespian 1,000 (epigraphy)
            Thespian 5,000 (epigraphy)
10172
            Delphic 5 mnas (epigraphy)
10173
       N
10174
            Stratian 50 mnas (epigraphy)
            editorial κορωνίς; indicates the end of a section or of a poem in a papyrus
2EoE
            character variants:
            use InDesign's Glyphs palette (cvo2,1; the glyph <sup>2</sup> is uni2EoE.alt1)
            use InDesign's Glyphs palette (cvo2,2; the glyph = is uni2EoE.alt2)
2EoF
            παράγραφος; marks a break in the text
2E10
            forked παράγραφος; similar in function to παράγραφος
            reversed forked παράγραφος
2E11
            ύποδιαστολή; mark used in papyri to divide words from one another
2E12
            downwards ancora
2E14
       T
            upwards ancora
2E15
            διπλή περιεστιγμένη; dotted right-pointing angle
2E16
       ∻
            one half sign (papyri)
10175
       1
            year sign (papyri)
10179
            one half sign, alternate form (papyri)
10176
            two thirds sign (papyri)
10177
       ω
       a
            three quarters sign (papyri)
10178
1017A ×
            talent sign (papyri)
1017B
            drachma sign (papyri)
1017C
            obol sign (papyri)
1017D ≈
            two obols sign (papyri)
1017E
      ſ
            three obols sign (papyri)
1017F
            four obols sign (papyri)
       F
            five obols sign (papyri)
10180
10181
       F
            metretes sign (papyri)
10182
       K
            kyathos base sign (papyri)
            litra sign (papyri)
10183
       s
            ounkia sign (papyri)
       \mathbf{F}
10184
       ξ
10185
            xestes sign (papyri)
```

```
10186
            artabe sign (papyri)
10187
       Ն
            aroura sign (papyri)
       Гf
10188
            gramma sign (papyri)
            tryblion base sign (papyri)
10189 P
            zero sign (papyri)
1018A ∘-∘
            Greek indiction sign; in Byzantine chronology, the indiction cycle was 15 years
1018D
      4
       Ň
1018E
            nomisma sign; nomisma is the name of the gold coin known in Latin as the solidus
Cyrillic
0430
       a
04D3
       ä
            Cyrillic small letter a with diaeresis
            Cyrillic small letter a with breve
04D1
       ă
0410
       Α
       Ä
04D2
            Cyrillic capital letter A with diaeresis
       Ă
            Cyrillic capital letter A with breve
04D0
       б
0431
       Б
0411
0432
       В
0412
       В
0433
       Г
0491
       ľ
       ŕ
0453
            Cyrillic small letter ghe with stroke
0493
       F
            Cyrillic small letter ghe with middle hook
0495
       Б
       Γ
0413
       L
0490
       ŕ
0403
       F
            Cyrillic capital letter Ghe with stroke
0492
            Cyrillic capital letter Ghe with middle hook
       Б
0494
0434
       Д
       Д
0414
0452
       ħ
       Ъ
0402
0435
       e
            Cyrillic small letter schwa
04D9
       Э
0450
       è
       ë
0451
04D7
       ĕ
            Cyrillic small letter e with breve
       E
0415
04D8
       Э
            Cyrillic capital letter Schwa
```

```
È
0400
        Ë
0401
04D6
       Ĕ
            Cyrillic capital letter E with breve
            do not confuse with \epsilon, A<sub>793</sub>, Latin small letter c with bar
        \epsilon
0454
       \epsilon
            do not confuse with €, A792, Latin capital letter C with bar: scientific Cambrian
0404
            symbol
0436
       Ж
            Cyrillic small letter zhe with breve
04C2
       ж
0497
            Cyrillic small letter zhe with descender
       Ж
0416
       Ж
04C1
       Ж
            Cyrillic capital letter Zhe with breve
            Cyrillic capital letter Zhe with descender
0496
       Ж
            Cyrillic small letter zemlya
A641
       Z
A640
       Z
            Cyrillic capital letter Zemlya
0437
        3
            Cyrillic small letter ze with descender
0499
       3
        3
0417
        3
            Cyrillic capital letter Ze with descender
0498
0455
       S
       S
0405
            Cyrillic small letter Abkhasian dze
04E1
       3
04E0
       3
            Cyrillic capital letter Abkhasian Dze
0438
       И
0418
       И
045D
       ѝ
040D Й
0456
      i
A647
            Cyrillic small letter iota
       ι
       ï
0457
       Ι
0406
       ι
A646
            Cyrillic capital letter Iota
       Ϊ
0407
       й
0439
       Й
0419
0458
       j
      J
0408
043А к
04A1
       к
            Cyrillic small letter Bashkir ka
045C
       ќ
049D
            Cyrillic small letter ka with vertical stroke
       К
```

```
Cyrillic small letter ka with descender
049B
       қ
041A
       К
04A0
       Ж
            Cyrillic capital letter Bashkir Ka
040C
       К
            Cyrillic capital letter Ka with vertical stroke
049C
       К
            Cyrillic capital letter Ka with descender
049A
       Қ
043B
       Л
            Cyrillic small letter el with middle hook
0521
       Л
0459
       љ
041B
       Л
            Cyrillic capital letter El with middle hook
0520
       Љ
0409
043C
       M
041C
       M
043D
       Н
            Cyrillic small letter en ghe
04A5
       н
            Cyrillic small letter en with middle hook
0523
       Њ
045A
       њ
04A3
            Cyrillic small letter en with descender
       ң
041D
       Η
04A4
       Н
            Cyrillic capital letter En Ghe
            Cyrillic capital letter En with middle hook
0522
       Њ
040A
       Њ
04A2
       Ң
            Cyrillic capital letter En with descender
2116
       No
            Numero sign
043E
       0
            Cyrillic small letter o with diaeresis
04E7
       ö
            Cyrillic small letter o with bar; do not confuse with 6, 0473, Cyrillic small letter fita
04E9
       θ
041E
       0
       Ö
04E6
            Cyrillic capital letter O with diaeresis
            Cyrillic capital letter O with bar; do not confuse with \Theta, 0472, Cyrillic capital letter Fita
04E8
       θ
043F
       П
041F
       П
0440
       p
       P
0420
0441
       c
            Cyrillic small letter es with descender
o4AB ç
0421
       \mathsf{C}
o4AA Ç
            Cyrillic capital letter Es with descender
0442
       Т
```

```
T
0422
             Serbian Cyrillic letter, transliterated in the Latin script as ć; uppercase is Ti, 040B; do
045B
        ħ
             not confuse with Cyrillic ħ, 0452, or with Latin ħ, 0127
        Ћ
             Serbian Cyrillic letter, transliterated in the Latin script as Ć; lowercase is ħ, 045B; do
040B
             not confuse with To, 0402
0443
        y
04F1
        ÿ
             Cyrillic small letter u with diaeresis
             Cyrillic small letter u with macron
04EF
        \bar{\mathbf{y}}
045E
        ÿ
04F3
        ű
             Cyrillic small letter u with double acute
        У
0423
        ÿ
04F0
             Cyrillic capital letter U with diaeresis
04EE
       \bar{\mathbf{y}}
             Cyrillic capital letter U with macron
        \ddot{\mathrm{V}}
040E
        Ű
04F2
             Cyrillic capital letter U with double acute
             Cyrillic small letter straight u
04AF
        γ
             Cyrillic small letter straight u with stroke
04B1
        ¥
             Cyrillic capital letter straight U
04AE Y
04B0
        ¥
             Cyrillic capital letter straight U with stroke
            Cyrillic small letter uk
0479
        oy
        Oy Cyrillic capital letter Uk
0478
A64B
       8
             Cyrillic small letter monograph uk
             Cyrillic capital letter monograph Uk
A64A &
        ф
0444
        Φ
0424
             Cyrillic small letter omega
0461
        w
            Cyrillic capital letter Omega
0460
        W
             Cyrillic small letter ot
047F
        \overline{\mathbf{w}}
            Cyrillic capital letter Ot
047E
            Cyrillic small letter broad omega
A64D
        CO Cyrillic capital letter broad Omega
A64C
            Cyrillic small letter omega with titlo
047D
        ඨි
047C
        Ĉ Cyrillic capital letter Omega with titlo
             Cyrillic small letter round omega
047B
        O
             Cyrillic capital letter round Omega
047A
        0
0445
        X
             Cyrillic small letter ha with descender
04B3
        X
0425
        X
04B2
        Х
             Cyrillic capital letter Ha with descender
04BB
        h
             Cyrillic small letter shha; do not confuse with Latin h
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```
Cyrillic small letter shha with descender; do not confuse with Latin h 2C68 (used for
0527
       h
            Uighur)
            Cyrillic capital letter Shha
04BA
       h
            Cyrillic capital letter Shha with descender
0526
       Ь
0446
       Ц
0426
       Ц
0447
       ч
            Cyrillic small letter che with vertical stroke
04B9
       ч
04CC
            Cyrillic small letter Khakassian che
       ч
       Ч
0427
04B8
       Ч
            Cyrillic capital letter Che with vertical stroke
04CB
       Ч
            Cyrillic capital letter Khakassian Che
045F
       Ц
040F
       Ц
0448
       Ш
0428
       Ш
0449
       Щ
0429
       Щ
044А ъ
042A
       Ъ
044B
       ы
042B
       Ы
            Cyrillic small letter yeru with back yer
A651
       ъ
A650
       Ы
            Cyrillic capital letter Yeru with back Yer
044C
042C
       Ь
0463
       Ъ
0462
       Ъ
044D
       Э
042D
       Э
            Cyrillic small letter iotified a
A657
       на
            Cyrillic capital letter Iotified A
A656
       Ы
            Cyrillic small letter iotified e
0465
       Ю
0464
            Cyrillic capital letter Iotified E
       Ю
044E
       ю
042E
       Ю
046B
            Cyrillic small letter big yus
       Ж
046A
       Ж
            Cyrillic capital letter big Yus
046D
       Ж
            Cyrillic small letter iotified big yus
046C
       ₩ Cyrillic capital letter Iotified big Yus
```

0467 Cyrillic small letter little yus A 0466 Cyrillic capital letter little Yus A Cyrillic small letter iotified little yus 0469 IA Cyrillic capital letter Iotified little Yus 0468 IA 044F 042F Я ž 046F Cyrillic small letter ksi Cyrillic capital letter Ksi 046E ψ Cyrillic small letter psi 0471 Ψ Cyrillic capital letter Psi 0470 Cyrillic small letter fita; do not confuse with e, 04E9, Cyrillic small letter o with bar 0473 Cyrillic capital letter Fita; do not confuse with O, 04E8, Cyrillic capital letter O with Θ 0472 bar v 0475 Ÿ Cyrillic capital letter izhitsa with double grave accent 0477 V 0474 Ÿ Cyrillic capital letter Izhitsa with double grave accent 0476 0481 Cyrillic small letter koppa ς 0480 ς Cyrillic capital letter Koppa combining Cyrillic titlo; not used with titlo letters 0483 ် combining Cyrillic palatalization; Slavicist notation; not used for kamora 0484 े combining Cyrillic psili pneumata; used to compose egyptological yod: i and I plus & 0486 gives i and 'I 0487 combining Cyrillic pokrytie; used only with titlo letters Cyrillic thousands sign 0482 0488 2 2 combining Cyrillic hundred thousands sign 0489 combining Cyrillic millions sign 2E2F vertical tilde; this is a spacing character, used for Cyrillic yerik

## **Appendix**

#### Characters added since version 2.x

#### Latin and related characters

- AB64 σ Latin small letter inverted alpha; Americanist phonetic notation
- 2C70 D Latin capital letter turned Alpha: used in Americanist linguistics; lowercase is p, 0252
- 1D43 a modifier letter small a; linguistic use; do not confuse with a, ooAA, feminine ordinal
- 1D2C A modifier letter capital A; linguistic use
- 1D44 <sup>e</sup> modifier letter small turned a; linguistic use
- 1D45 a modifier letter small alpha; linguistic use
- 1D2D  $^{-\cancel{\!E}}$  modifier letter capital  $\cancel{\!E}$ ; linguistic use
- 1D46 \* modifier letter small turned æ; linguistic use
- A7BB å Latin small letter glottal a; used to transcribe the Ugaritic cuneiform letter →; uppercase is Å, A7BA
- A7BA 'A Latin capital letter glottal A; used to transcribe the Ugaritic cuneiform letter →; lowercase is å, A7BB
- 1D47 b modifier letter small b; linguistic use
- 1D<sub>2</sub>E B modifier letter capital B; linguistic use
- 1D2F B modifier letter capital barred B; linguistic use
- A797 b Latin small letter b with flourish; used in rendering Middle Vietnamese; uppercase is B, A796
- A796 B Latin capital letter B with flourish; used in rendering Middle Vietnamese; lowercase is b, A797
- A7B5  $\beta$  Latin small letter beta: IPA voiced bilabial fricative; also used in Gabonese orthographies; uppercase is  $\beta$ , A7B4; formerly, lowercase Greek beta  $\beta$ , 03B2, was given a 'Latin' shape by applying Stylistic Set 20:  $\beta$ ; but A7B5 is now the preferred character
- 1D<sub>5</sub>D β modifier letter small beta; linguistic use
- 1D66 Greek subscript small letter beta; linguistic use
- A<sub>7</sub>B<sub>4</sub> β Latin capital letter Beta; lowercase is β, A<sub>7</sub>B<sub>5</sub>; used in Gabonese orthographies;
- A793  $\epsilon$  Latin small letter c with bar; linguistic use; uppercase is  $\epsilon$ , A792, scientific Cambrian symbol; do not confuse with  $\epsilon$ , 0454, Cyrillic small letter Ukrainian ie
- A792 € Latin capital letter C with bar; scientific Cambrian symbol; lowercase is ε, A793, which has linguistic applications; do not confuse with €, 0404, Cyrillic capital letter Ukrainian IE
- A794 c Latin small letter c with palatal hook; used in Lithuanian dialectology; uppercase is G, A7C4

- A7C4  $\,$  G Latin capital letter C with palatal hook; used in early Pinyin romanization; lowercase is  $\varsigma$ , A794
- 1D48 d modifier letter small d; linguistic use
- 1D30 D modifier letter capital D; linguistic use
- 1D5F 8 modifier letter small delta; linguistic use
- AB66 dz Latin small letter dz digraph with retroflex hook; no uppercase; used in Sinological and Tibetanist transcriptions
- 1D49 e modifier letter small e; linguistic use
- 1D31 E modifier letter capital E; linguistic use
- 1D4A \* modifier letter small schwa; linguistic use
- 1D<sub>32</sub> <sup>H</sup> modifier letter capital reversed E; linguistic use
- 1D4B ε modifier letter small open e; linguistic use
- 1D4C <sup>3</sup> modifier letter small turned open e; linguistic use
- A7AB 3 Latin capital letter reversed open E; lowercase is 3, 025C
- 1D60 

  modifier letter small Greek phi; linguistic use
- 1D69 Greek subscript small letter phi; linguistic use
- A799 f Latin small letter f with stroke; used in Old Ewe orthography and in German dialectology; uppercase is F, A798
- A798 F Latin capital letter F with stroke; used in Old Ewe orthography; lowercase is f, A799
- 1D4D g modifier letter small g; linguistic use
- 1D33 G modifier letter capital G; linguistic use
- 1D5E  $^{\gamma}$  modifier letter small Greek gamma; linguistic use; compare  $^{\gamma}$ , 02E0, modifier letter small gamma
- 1D67 , Greek subscript small letter gamma; linguistic use
- A7AC g Latin capital letter script G; lowercase is g, 0261
- A795 h Latin small letter h with palatal hook; used in Lithuanian dialectology; do not confuse with h, A727, lowercase heng; no uppercase
- $^{1}$ D34  $^{1}$  modifier letter capital H; linguistic use; do not confuse with  $^{1}$ , modifier letter Cyrillic en,  $^{1}$ D78
- A7F8 <sup>H</sup> modifier letter capital H with stroke; faucalized; extended IPA; compare Ħ, 0126, <sup>H</sup>, 1D34, and H, 029C
- A7AA H Latin capital letter h with hook; used in African orthographies (Chad); lowercase is  $\mathfrak{h}$ ,  $\mathfrak{o}_{2}66$
- 1D62 i Latin subscript small letter i; linguistic use
- 1D<sub>35</sub> I modifier letter capital I; linguistic use
- A<sub>7</sub>F<sub>7</sub> → epigraphic sideways I; used in Celtic inscriptions
- A7AE  $\,$   $\,$  Latin capital letter small capital 1; used in Gabonese orthographies; lowercase is 1, 026A

- A7BD i Latin small letter glottal i; used to transcribe the Ugaritic cuneiform letter 

  . It also represents Egyptological yod (usually in the italic form), which was formerly available only as a combination of lowercase i plus a combining diacritic (in the Brill fonts: i+ċ[0486]=i; which continues to be supported); uppercase is I, A7BC
- A7BC 'I Latin capital letter glottal I; used to transcribe the Ugaritic cuneiform letter 

  . It also represents Egyptological yod (usually in the italic form), which was formerly available only as a combination of uppercase I plus a combining diacritic (in the Brill fonts: I+ċ[o₄86]='I; which continues to be supported); lowercase is i, A7BD
- 1D36 J modifier letter capital J; linguistic use
- A7B2 J Latin capital letter J with crossed tail; African orthographies; lowercase is j, 029D
- 1D4F k modifier letter small k; linguistic use
- 1D37 K modifier letter capital K; linguistic use
- A<sub>7</sub>B<sub>0</sub> X Latin capital letter turned K; lowercase is η, 029E; used in Americanist orthographies
- 1D<sub>3</sub>8 L modifier letter capital L; linguistic use
- A<sub>7</sub>8E Latin small letter l with retroflex hook and belt; voiceless lateral retroflex fricative; used to transcribe Toda; no uppercase
- A7AD Ł Latin capital letter L with belt; lowercase is 4, 026C
- 1D50 m modifier letter small m; linguistic use
- 1D39 M modifier letter capital M; linguistic use
- 1D5A <sup>uu</sup> modifier letter small turned m; linguistic use
- 1D<sub>3</sub>A N modifier letter capital N; linguistic use
- 1D<sub>3</sub>B M modifier letter capital reversed N; linguistic use
- A<sub>791</sub> η Latin small letter n with descender; uppercase is N, A<sub>790</sub>
- 1D51 <sup>ŋ</sup> modifier letter small eng; linguistic use
- 1D78  $^{\rm H}$  modifier letter Cyrillic en; linguistic use; do not confuse with  $^{\rm H}$ , modifier letter capital H, 1D34
- A790 N Latin capital letter N with descender; lowercase is n, A791
- 1D52 ° modifier letter small 0; linguistic use; do not confuse with °, 00BA, masculine ordinal, or °, 00BO, degree sign, or °, 02DA, spacing ring above
- 1D<sub>3</sub>C O modifier letter capital O; linguistic use
- 1D53 o modifier letter small open o; linguistic use
- 1D54 ^ modifier letter small top half o; linguistic use
- 1D55 modifier letter small bottom half o; linguistic use
- A<sub>7</sub>F<sub>9</sub> <sup>∞</sup> modifier letter small ligature oe; linguistic use
- 1D3D 8 modifier letter capital OU (8); linguistic use
- A<sub>7</sub>B<sub>7</sub> ω Latin small letter omega; used in Gabonese orthographies; uppercase is ω, A<sub>7</sub>B<sub>6</sub>
- A7B6 ω Latin capital letter Omega; used in Gabonese orthographies; lowercase is ω, A7B7
- AB65 Ω Greek letter small capital omega; Americanist use only; no uppercase
- 1D<sub>5</sub>6 p modifier letter small p; linguistic use
- 1D<sub>3</sub>E P modifier letter capital P; linguistic use

- A7AF q Latin letter small capital q; used in Japanese phonemic transcription
- 1D63 r Latin subscript small letter r; linguistic use
- 1D<sub>3</sub>F R modifier letter capital R; linguistic use
- 1D68  $_{\rho}$  Greek subscript small letter rho; linguistic use
- 2C7E § Latin capital letter S with swash tail; Africanist use; lowercase is \$, 023F
- A<sub>7</sub>C<sub>5</sub> § Latin capital letter S with hook; used in early Pinyin romanization; lowercase is §, 0282
- 1D57 t modifier letter small t; linguistic use
- 1D40 T modifier letter capital T; linguistic use
- AB67 ts Latin small letter ts digraph with retroflex hook; no uppercase; used in Sinological and Tibetanist transcriptions
- A7B1 L Latin capital letter turned T; lowercase is 1, 0287; used in Americanist orthographies
- 1D58 u modifier letter small u; linguistic use
- 1D64 Latin subscript small letter u; linguistic use
- 1D41 U modifier letter capital U; linguistic use
- 1D59 <sup>z</sup> modifier letter small sideways u; linguistic use
- A7BF û Latin small letter glottal u; used to transcribe the Ugaritic cuneiform letter !!!; uppercase is 'U, A7BE
- A<sub>7</sub>BE 'U Latin capital letter glottal U; used to transcribe the Ugaritic cuneiform letter **!!!**; lowercase is û, A<sub>7</sub>BF
- A7B9 и Latin small letter u with stroke; uppercase is *V*, A7B8; used in Mazahua
- A7B8 V Latin capital letter U with stroke; lowercase is и, A7B9; used in Mazahua
- 1D65 Latin subscript small letter v; linguistic use
- 1D42 W modifier letter capital W; linguistic use
- A<sub>7</sub>C<sub>3</sub> & Latin small letter Anglicana w; uppercase is W, A<sub>7</sub>C<sub>2</sub>; used in medieval English and
- A<sub>7</sub>C<sub>2</sub> W<sub>8</sub> Latin capital letter Anglicana W; lowercase is w<sub>8</sub>, A<sub>7</sub>C<sub>3</sub>; used in medieval English and Cornish
- AB53  $\chi$  Latin small letter khi; IPA voiceless uvular fricative; uppercase is  $\chi$ , A7B3; formerly, lowercase Greek khi, o3C7, was given a 'Latin' shape by applying Stylistic Set 20:  $\chi$
- A<sub>7</sub>B<sub>3</sub> X Latin capital letter Khi; used in German dialectology; lowercase is χ, AB<sub>53</sub>
- 1D61 x modifier letter small chi; linguistic use
- 1D6A Greek subscript small letter chi; linguistic use
  - y Elfdalian y with ogonek can be made by keying y followed by a combining ogonek,  $\circ$ ,  $\circ$ 328
  - Y Elfdalian Y with ogonek can be made by keying Y followed by a combining ogonek,  $\circ$ ,  $\circ$ 328
- $2C_7F$  Z Latin capital letter Z with swash tail; Africanist use; lowercase is  $\zeta$ , 0240

- A<sub>7</sub>C6 Z Latin capital letter Z with palatal hook; used in early Pinyin romanization; lowercase is z, 1D8E
- 1D5C \* modifier letter small ain

# Combining characters, spacing modifier letters, and similarly-shaped characters and marks

- A<sub>7</sub>8C ' Latin small letter saltillo; symbol for glottal stop; used in Me'phaa/Tlapanec; uppercase is ', A<sub>7</sub>8B
- A<sub>7</sub>8B ' Latin capital letter saltillo; symbol for glottal stop; used in Me'phaa/Tlapanec; lowercase is ', A<sub>7</sub>8C
- A788 modifier letter low circumflex accent; this is a spacing character; linguistic use (tone marker in Akha and Lahu); combining circumflex accent below is of 0.32D; do not confuse with the upa modifier letter low up arrowhead, 0.2F0, or of 0.05E, circumflex, or of modifier letter up arrowhead, 0.2C4, or of modifier letter circumflex accent, 0.2C6
- o2CA 'modifier letter acute accent; when used as the Chinantec mid tone mark, the glyph representing this character can be made strictly rectangular by applying the 'Chinantec' language attribute in certain applications, principally web browsers (for instance by using the css 'font-language-override' syntax and the 'CCHN' OpenType language system tag):
- o2CB ` modifier letter grave accent; when used as the Chinantec low rising tone mark, the glyph representing this character can be made strictly rectangular by applying the 'Chinantec' language attribute in certain applications, principally web browsers (for instance by using the css 'font-language-override' syntax and the 'CCHN' OpenType language system tag):
- 2E2F ' vertical tilde; this is a spacing character, used for Cyrillic yerik
- 1DFD  $_{\circ}$  combining almost equal to below; indicates a strident vowel in Khoisan languages; compare  $\tilde{\circ},$  o34C
- 1DFC  $\circ$  combining double inverted breve below; typed between the two letters to which it belongs
- A717 modifier letter dot vertical bar; Chinantec high ballistic tone mark
- A718 modifier letter dot slash; Chinantec mid ballistic tone mark
- A719 modifier letter dot horizontal bar; Chinantec low ballistic tone mark
- Modifier letter lower right corner angle; Chinantec high rising tone; do not confuse with \_, o2FC, upa modifier letter end low tone, or \_J, modifier letter extra-low tone bar, o2E9, or \_J, right floor mathematical delimiter, 230B, or \_J, bottom right quine corner, 231F, or \_J, bottom right half bracket, 2E25
- 1DF<sub>5</sub> † combining up tack above; used in American lexicography

- A713 | modifier letter high left-stem tone bar; this is a spacing character; see also \( \), A712; \( \), A714; \( \), A715; \( \), A716; compare \( \), o2E6; \( \), A70E; \( \), A709
- A714 | modifier letter mid left-stem tone bar; this is a spacing character; see also \( \), A712; \( \), A713; \( \), A715; \( \), A716; compare \( \), o2E7; \( \), A70F; \( \), A70A
- A715 | modifier letter low left-stem tone bar; this is a spacing character; see also \( \cap A712; \cap \), A713; \( \cap A713; \cap \), A716; compare \( \dagger \), o2E8; \( \cap A710; \dagger \), A70B
- A716 L modifier letter low left-stem tone bar; this is a spacing character; see also Γ, A712; Γ, A713; Γ, A714; Γ, A715; compare J, o2E9; Γ, A711; Γ, A70C
- A71B † modifier letter raised up arrow; Africanist use, tone letter; do not confuse with ↑, 2191, upwards arrow
- A71C ↓ modifier letter raised down arrow; Africanist use, tone letter; do not confuse with ↓, 2193, downwards arrow
- A71D ! modifier letter raised exclamation mark; Africanist use, tone letter
- A71E i modifier letter raised inverted exclamation mark; Africanist use, tone letter
- A71F i modifier letter low inverted exclamation mark; Africanist use, tone letter
- A789 : modifier letter colon; used as a tone letter in some orthographies; do not confuse with the punctuation mark : colon, 003A, or with : modifier letter triangular colon, 02D0
- A78A = modifier letter short equals sign; used as a tone letter in some orthographies; do not confuse with = double hyphen (a punctuation mark), 2E40, or with = equals sign, 003D, or with = Roman sextans sign, 10190, or with = double oblique hyphen, 2E17
- A78F Latin letter sinological dot; used in transliteration of 'Phags-Pa and in phonetic transcription of Tangut; do not confuse with  $\cdot$  middle dot, ooB7
- A700 c modifier letter Chinese tone yin ping
- A701 , modifier letter Chinese tone yang ping
- A<sub>7</sub>O<sub>2</sub> ' modifier letter Chinese tone vin shang
- A<sub>703</sub> <sup>\$</sup> modifier letter Chinese tone yang shang
- A<sub>704</sub> , modifier letter Chinese tone yin qu
- A<sub>705</sub> , modifier letter Chinese tone yang qu
- A<sub>7</sub>06 ' modifier letter Chinese tone yin ru
- A<sub>7</sub>07 modifier letter Chinese tone yang ru
- A<sub>708</sub> | modifier letter extra-high dotted tone bar; compare \( \text{I}, A<sub>70</sub>D; \) \( \text{I}, o<sub>2</sub>E<sub>5</sub>; \) \( \text{I}, A<sub>712</sub>
- A709 | modifier letter high dotted tone bar; compare |, A70E; |, 02E6; |, A713
- A70A | modifier letter mid dotted tone bar; compare |, A70F; |, 02E7; |, A714
- A<sub>70</sub>B | modifier letter low dotted tone bar; compare |, A<sub>710</sub>; |, 02E8; |, A<sub>715</sub>
- A<sub>7</sub>oC .l modifier letter extra-low dotted tone bar; compare l., A<sub>7</sub>11; J, o<sub>2</sub>E<sub>9</sub>; L, A<sub>7</sub>16

A<sub>70</sub>D i modifier letter extra-high dotted left-stem tone bar; compare 1, A708; 1, o2E5; 1, A712 A70E modifier letter high dotted left-stem tone bar; compare 1, A709; 1, 02E6; 1, A713 A70F ŀ modifier letter mid dotted left-stem tone bar; compare 1, A70A; 1, 02E7; 1, A714 |. modifier letter low dotted left-stem tone bar; compare 1, A70B; 1, 02E8; 1, A715 A710 I. modifier letter extra-low dotted left-stem tone bar; compare I, A7oC; I, o2E9; L, A716 A711

## Digits, numbers, and mathematical and logical operators, plus similarly-shaped characters

```
1/10
2152
        1/9
2151
        \frac{1}{7}
2150
1F100
        0.
            digit zero full stop
             minus-or-plus sign
2213
        Ŧ
            dot operator; in mathematics preferred to middle dot · ooB7 for denotation of
22C5
             multiplication
            squared dot operator
22A1
        lacksquare
225D
        <u>def</u>
             equal to by definition
            approximately equal to
2245
        \cong
            approximately but not actually equal tp
2246
        ≆
            neither approximately nor actually equal to
2247
        ≇
            not almost equal to
2249
        *
226E
            not less-than
        ≮
226F
            not greater-than
        ≯
            neither less-than nor equal to
2270
        ≰
            neither greater-than nor equal to
        ≱
2271
        \forall
            universal quantifier; see also ∧, 22Co
2200
            existential quantifier, existential operator; see also V, 22C1
        \exists
2203
        ∄
            non-existence quantifier
2204
            is an element of
        \in
2208
            is not an element of
2209
            contains as member
220B
        ∋
220C
            does not contain as member
        ∌
            logical conjunction
2227
        Λ
            logical disjunction
2228
        V
            n-ary logical and; see also ∀, 2200
22C0
            n-ary logical or; see also ∃, 2203
22C1
2229
        \cap
            intersection in set theory
222A
        U
            union in set theory
2282
            subset of; do not confuse with ⊂, left sideways U bracket, 2E26
```

superset of; do not confuse with ⊃, right sideways U bracket, 2E27

not a subset of

2283

2284

 $\supset$ 

Œ

not a superset of 2285 ⊅ subset of or equal to 2286  $\subset$ superset of or equal to 2287 ⊇ neither a subset of nor equal to 2288 ⊈ neither a superset of nor equal to 2289 ⊉ normal subgroup of 22B2 ⊲ 22B3 contains as normal subgroup set minus, set difference; compare backslash (reverse solidus) \, 005C 2216 22C4 diamond operator; see also lozenge ◊, 25CA, and white diamond ◊, 25C7 25CA lozenge; possibility in modal logic; see also white diamond  $\diamondsuit$ , 25C7, and diamond operator , 22C4 white square; various applications in logic; see also ballot box  $\Box$ , 2610 25A1 end of proof; see also black square ■, 25Ao **220**E right tack; turnstile; proves, implies, yields; reducible 22A2 left tack; reverse turnstile; non-theorem, does not yield 22A3  $\dashv$ down tack, 'tee'; tautology: 'top', truth, verum 22A4 up tack; contradiction: 'bottom', falsity, falsum 22A5 F models 22A7 22A8 F true left right double arrow; if and only if, 'iff' 21D4 tilde operator; negation, not; do not confuse with ~, tilde, 007E, or with ~, swung dash, 223C 2053 not tilde 2241 д partial differential 2202 mathematical difference or increment operator, or Laplace operator; symmetric 2206 difference; do not confuse with  $\Delta$ , 0394, Greek uppercase Delta n-ary product 220F П Σ n-ary summation 2211

## Punctuation marks, plus similarly-shaped characters

raised comma 2E34 medieval comma 2E4C ? punctus elevatus mark 2E4E raised dot; position intermediate between full stop and middle dot 2E33 word separator middle dot; do not confuse with  $\cdot$  00B7, middle dot 2E31 2E35 • turned semicolon 2E3D vertical six dots 2E4D *Y* paragraphus mark 2E4F Cornish verse divider

- 2E40 double hyphen; used in transcription of old German mss.; "not intended for the representation of normal hyphens, whose doubled forms in Fraktur text are considered glyphic variants" (remark in Unicode code chart); do not confuse with = modifier letter short equals sign, A<sub>7</sub>8A, or with = equals sign, oo<sub>3</sub>D, or with = Roman sextans sign, 10190 two-em dash (omission dash) 2E3A 2E3B three-em dash mathematical left double angle bracket; (( )) are used in Latin epigraphy to mark text 27EA that is conjectured to have stood before a deletion took place mathematical right double angle bracket; (()) are used in Latin epigraphy to mark text 27EB that is conjectured to have stood before a deletion took place left vertical bar with quill; Nordic editorial mark: |deletion| in ms., and |dittography| 2E20 right vertical bar with quill; Nordic editorial mark: |deletion| in ms., and |dittography| 2E21 27E8 angle bracket, new default glyph shape; is still available in Stylistic Set 5 angle bracket, new default glyph shape; 27E9 is still available in Stylistic Set 5 dotted solidus = virgula suspensiva; indicates a medial disjunction more than solidus 2E4A but less than punctus elevatus wiggly vertical line 2E3E Various symbols including currency signs 20BF B Bitcoin sign Dong sign (Vietnam) 20AB ₫ Hryvnia sign (Ukraine) 20B4 € 20BA Ł Lira sign (Turkey) 20B6 livre tournois; pre-Revolutionary French unit of account Ħ 20BD ₽ Ruble sign (Russia) Indian Rupee sign ₹ 20B9 211E R recipe; cross ratio 25C7  $\Diamond$ white diamond; see also lozenge \( \frac{1}{2}, 25CA, \) which is used as a logical symbol; and
- 25Ao  $\blacksquare$  black square; see also end of proof  $\blacksquare$ , 220E

diamond operator , 22C4

- 2610  $\square$  ballot box; checkbox; see also white square  $\square$ , 25A1, which is used as a logical symbol
- $_{2E4B}$   $_{\ddagger}$  triple dagger
- 25DC upper left quadrant circular arc
- 25DD \ upper right quadrant circular arc
- 25DE J lower right quadrant circular arc
- 25DF \ lower left quadrant circular arc

#### Greek

- 037F J Greek capital letter Yot; lowercase is j, 03F3
- 1018D † Greek indiction sign; in Byzantine chronology, the indiction cycle was 15 years
- 1018E N nomisma sign; nomisma is the name of the gold coin known in Latin as the solidus

# Cyrillic

- 04D3 ä Cyrillic small letter a with diaeresis
- 04D1 ă Cyrillic small letter a with breve
- 04D2 Ä Cyrillic capital letter A with diaeresis
- 04Do A Cyrillic capital letter A with breve
- 0493 F Cyrillic small letter ghe with stroke
- 0495 Б Cyrillic small letter ghe with middle hook
- 0492 F Cyrillic capital letter Ghe with stroke
- 0494 Ђ Cyrillic capital letter Ghe with middle hook
- 04D7 ĕ Cyrillic small letter ie with breve
- 04D9 ə Cyrillic small letter schwa
- 04D6 Ĕ Cyrillic capital letter Ie with breve
- 04C2 ж Cyrillic small letter zhe with breve
- 0497 ж Cyrillic small letter zhe with descender
- 04C1 Ж Cyrillic capital letter Zhe with breve
- 0496 Ж Cyrillic capital letter Zhe with descender
- 0499 3 Cyrillic small letter ze with descender
- 0498 3 Cyrillic capital letter Ze with descender
- A641 z Cyrillic small letter zemlya
- A640 Z Cyrillic capital letter Zemlya
- 04E1 3 Cyrillic small letter Abkhasian dze
- 04E0 3 Cyrillic capital letter Abkhasian Dze
- A647 \(\text{ Cyrillic small letter iota}\)
- A646 l Cyrillic capital letter Iota
- 049B қ Cyrillic small letter ka with descender
- 049D к Cyrillic small letter ka with vertical stroke
- 04A1 к Cyrillic small letter Bashkir ka
- 049A Қ Cyrillic capital letter Ka with descender
- 049C K Cyrillic capital letter Ka with vertical stroke
- 04A0 K Cyrillic capital letter Bashkir Ka
- 0521 љ Cyrillic small letter el with middle hook
- 0520 Љ Cyrillic capital letter El with middle hook
- 04A5 н Cyrillic small letter en ghe
- 0523 н Cyrillic small letter en with middle hook

- 04A3 ң Cyrillic small letter en with descender
- 04A4 Н Cyrillic capital letter En Ghe
- 0522 Нъ Cyrillic capital letter En with middle hook
- 04A2 H Cyrillic capital letter En with descender
- 04E7 ö Cyrillic small letter o with diaeresis
- 04E9 в Cyrillic small letter o with bar
- 04E6 Ö Cyrillic capital letter O with diaeresis
- 04E8 Θ Cyrillic capital letter O with bar
- 04AB ç Cyrillic small letter es with descender
- 04AA Ç Cyrillic capital letter Es with descender
- 04F1 ÿ Cyrillic small letter u with diaeresis
- 04EF  $\bar{y}$  Cyrillic small letter u with macron
- 04F3 y Cyrillic small letter u with double acute
- 04F0 У Cyrillic capital letter U with diaeresis
- 04F2 Ÿ Cyrillic capital letter U with double acute
- 04AF γ Cyrillic small letter straight u
- 04B1 γ Cyrillic small letter straight u with stroke
- 04AE Y Cyrillic capital letter straight U
- 04B0 Y Cyrillic capital letter straight U with stroke
- 0479 oy Cyrillic small letter uk
- 0478 Oy Cyrillic capital letter Uk
- A64B 8 Cyrillic small letter monograph uk
- A64A & Cyrillic capital letter monograph Uk
- 0461 w Cyrillic small letter omega
- 047F W Cyrillic small letter ot
- A64D co Cyrillic small letter broad omega
- 047D & Cyrillic small letter omega with titlo
- 047B Cyrillic small letter round omega
- 0460 W Cyrillic capital letter Omega
- 047E W Cyrillic capital letter Ot
- A64C CO Cyrillic capital letter broad Omega
- 047C Ĉ Cyrillic capital letter Omega with titlo
- 047A O Cyrillic capital letter round Omega
- 04B3 x Cyrillic small letter ha with descender
- 04B2 X Cyrillic capital letter Ha with descender
- 04BB h Cyrillic small letter shha
- 04BA h Cyrillic capital letter Shha
- 0526 h Cyrillic capital letter Shha with descender

- 04В9 ч Cyrillic small letter che with vertical stroke
- 04СС ч Cyrillic small letter Khakassian che
- 04B8 4 Cyrillic capital letter Che with vertical stroke
- 04CB Y Cyrillic capital letter Khakassian Che
- Аб51 ы Cyrillic small letter yeru with back yer
- Аб50 ЪІ Cyrillic capital letter Yeru with back Yer
- A657 на Cyrillic small letter iotified a
- A656 HA Cyrillic capital letter Iotified A
- 0465 к Cyrillic small letter iotified e
- 046B x Cyrillic small letter big yus
- 046A X Cyrillic capital letter big Yus
- 046D ж Cyrillic small letter iotified big yus
- 046C LX Cyrillic capital letter Iotified big Yus
- 0467 A Cyrillic small letter little yus
- 0466 A Cyrillic capital letter little Yus
- 0469 ы Cyrillic small letter iotified little yus
- 046F 3 Cyrillic small letter ksi
- 046E Ž Cyrillic capital letter Ksi
- 0471 ψ Cyrillic small letter psi
- 0477 

  Cyrillic capital letter izhitsa with double grave accent
- 0476 V Cyrillic capital letter Izhitsa with double grave accent
- 0481 ς Cyrillic small letter koppa
- 0480 C Cyrillic capital letter Koppa
- 0483 5 combining Cyrillic titlo; not used with titlo letters
- 0484 δ combining Cyrillic palatalization; Slavicist notation; not used for kamora

- o488 combining Cyrillic hundred thousands sign
- 0489 combining Cyrillic millions sign
- 2E2F ' vertical tilde; this is a spacing character, used for Cyrillic yerik