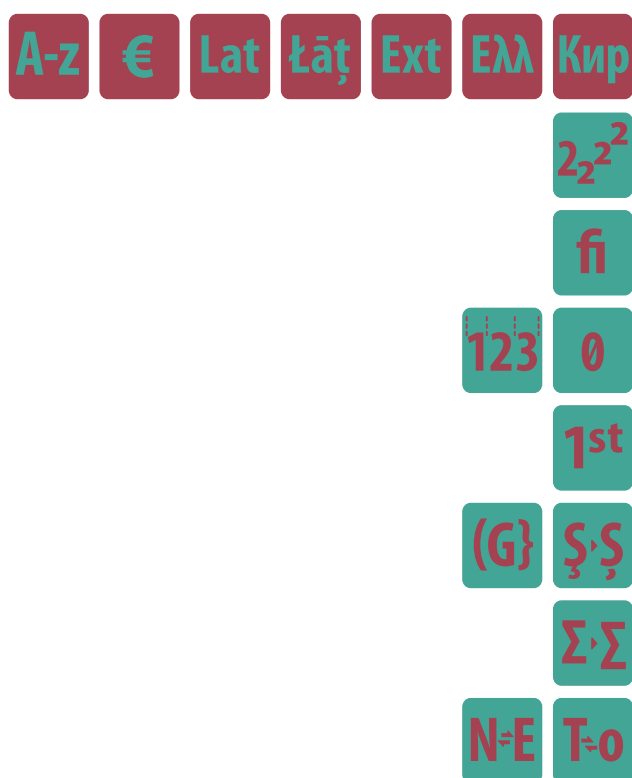


CiscoSans ExtraLightOblique

Technical Documentation



Ralph du Carrois, Erik Spiekermann & Botio Nikoltchev

Edenspiekermann

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Encoded Characters

All encoded characters should be accessible with every unicode capable application.
For details about Unicode Blocks visit the [Unicode Website](#).

Basic Latin

Block from 0000 to 007F

| | | | | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 0000 | 000D | 0020 | 0021 | 0022 | 0023 | 0024 | 0025 | 0026 | 0027 | 0028 | 0029 | 002A | 002B | 002C | 002D |
| | | | ! | " | # | \$ | % | & | ' | (|) | * | + | , | - |
| 002E | 002F | 0030 | 0031 | 0032 | 0033 | 0034 | 0035 | 0036 | 0037 | 0038 | 0039 | 003A | 003B | 003C | 003D |
| . | / | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | : | ; | < | = |
| 003E | 003F | 0040 | 0041 | 0042 | 0043 | 0044 | 0045 | 0046 | 0047 | 0048 | 0049 | 004A | 004B | 004C | 004D |
| > | ? | @ | A | B | C | D | E | F | G | H | I | J | K | L | M |
| 004E | 004F | 0050 | 0051 | 0052 | 0053 | 0054 | 0055 | 0056 | 0057 | 0058 | 0059 | 005A | 005B | 005C | 005D |
| N | O | P | Q | R | S | T | U | V | W | X | Y | Z | [| \ |] |
| 005E | 005F | 0060 | 0061 | 0062 | 0063 | 0064 | 0065 | 0066 | 0067 | 0068 | 0069 | 006A | 006B | 006C | 006D |
| ^ | _ | ` | a | b | c | d | e | f | g | h | i | j | k | l | m |
| 006E | 006F | 0070 | 0071 | 0072 | 0073 | 0074 | 0075 | 0076 | 0077 | 0078 | 0079 | 007A | 007B | 007C | 007D |
| n | o | p | q | r | s | t | u | v | w | x | y | z | { | | } |
| 007E | | | | | | | | | | | | | | | |
| | ~ | | | | | | | | | | | | | | |

Latin-1 Supplement

Block from 0080 to 00FF

| | | | | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 00A0 | 00A1 | 00A2 | 00A3 | 00A4 | 00A5 | 00A6 | 00A7 | 00A8 | 00A9 | 00AA | 00AB | 00AC | 00AD | 00AE | 00AF |
| | ı | ç | £ | ¤ | ¥ | ¦ | § | ¨ | © | ª | « | ¬ | – | ® | ¯ |
| 00B0 | 00B1 | 00B2 | 00B3 | 00B4 | 00B5 | 00B6 | 00B7 | 00B8 | 00B9 | 00BA | 00BB | 00BC | 00BD | 00BE | 00BF |
| ° | ± | ² | ³ | ´ | µ | ¶ | · | ¸ | ¹ | º | » | ¼ | ½ | ¾ | ¿ |
| 00C0 | 00C1 | 00C2 | 00C3 | 00C4 | 00C5 | 00C6 | 00C7 | 00C8 | 00C9 | 00CA | 00CB | 00CC | 00CD | 00CE | 00CF |
| À | Á | Â | Ã | Ä | Å | Æ | Ç | È | É | Ê | Ë | Ì | Í | Î | Ï |
| 00D0 | 00D1 | 00D2 | 00D3 | 00D4 | 00D5 | 00D6 | 00D7 | 00D8 | 00D9 | 00DA | 00DB | 00DC | 00DD | 00DE | 00DF |
| Ð | Ñ | Ò | Ó | Ô | Õ | Ö | × | Ø | Ù | Ú | Û | Ü | Ý | Þ | ß |
| 00E0 | 00E1 | 00E2 | 00E3 | 00E4 | 00E5 | 00E6 | 00E7 | 00E8 | 00E9 | 00EA | 00EB | 00EC | 00ED | 00EE | 00EF |
| à | á | â | ã | ä | å | æ | ç | è | é | ê | ë | ì | í | î | ï |

| 00F0 | 00F1 | 00F2 | 00F3 | 00F4 | 00F5 | 00F6 | 00F7 | 00F8 | 00F9 | 00FA | 00FB | 00FC | 00FD | 00FE | 00FF |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| đ | ñ | ò | ó | ô | õ | ö | ÷ | ø | ù | ú | û | ü | ý | þ | ÿ |

Latin Extended-A

Block from 0100 to 017F

| 0100 | 0101 | 0102 | 0103 | 0104 | 0105 | 0106 | 0107 | 0108 | 0109 | 010A | 010B | 010C | 010D | 010E | 010F |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Ā | ā | Ă | ă | Ą | ą | Ć | ć | Ĉ | ĉ | Ċ | ċ | Č | č | Ď | ď |
| 0110 | 0111 | 0112 | 0113 | 0116 | 0117 | 0118 | 0119 | 011A | 011B | 011C | 011D | 011E | 011F | 0120 | 0121 |
| Ē | ē | Ē | ē | Ė | ė | Ę | ę | Ě | ě | Ĝ | ĝ | Ğ | ğ | Ġ | ġ |
| 0122 | 0123 | 0124 | 0125 | 0126 | 0127 | 0128 | 0129 | 012A | 012B | 012E | 012F | 0130 | 0131 | 0134 | 0135 |
| Ģ | ģ | Ĥ | ĥ | Ħ | ħ | Ĩ | ĩ | Ī | ī | Ĵ | ĵ | Ĭ | ĭ | Ĵ | ĵ |
| 0136 | 0137 | 0138 | 0139 | 013A | 013B | 013C | 013D | 013E | 0141 | 0142 | 0143 | 0144 | 0145 | 0146 | 0147 |
| Ķ | ķ | κ | Ĺ | ĺ | Ł | ł | Ł | ł | Ł | ł | Ń | ń | Ń | ń | Ń |
| 0148 | 014A | 014B | 014C | 014D | 0150 | 0151 | 0152 | 0153 | 0154 | 0155 | 0156 | 0157 | 0158 | 0159 | 015A |
| Ň | ň | Ň | ň | Ō | ō | Ŏ | ő | Œ | œ | Ŕ | ŕ | Ŗ | ŗ | Ř | ř |
| 015B | 015C | 015D | 015E | 015F | 0160 | 0161 | 0162 | 0163 | 0164 | 0165 | 0166 | 0167 | 0168 | 0169 | 016A |
| Ś | ś | Ŝ | ŝ | Ş | ş | Š | š | Ţ | ţ | Ť | ť | Ŧ | ŧ | Ũ | ũ |
| 016B | 016C | 016D | 016E | 016F | 0170 | 0171 | 0172 | 0173 | 0174 | 0175 | 0178 | 0179 | 017A | 017B | 017C |
| Ū | ū | Ŭ | ŭ | Ů | ů | Ű | ű | Ų | ų | Ŵ | ŵ | Ŷ | ŷ | Ž | ž |
| 017D | 017E | | | | | | | | | | | | | | |
| Ž | ž | | | | | | | | | | | | | | |

Latin Extended-B

Block from 0180 to 024F

| 0192 | 0218 | 0219 | 021A | 021B | 0237 |
|------|------|------|------|------|------|
| f | Œ | Œ | Ţ | ţ | Ţ |

Spacing Modifier Letters

Block from 02B0 to 02FF

| 02C6 | 02C7 | 02C9 | 02D8 | 02D9 | 02DA | 02DB | 02DC | 02DD |
|------|------|------|------|------|------|------|------|------|
| ^ | ˘ | ˉ | ˘ | ˙ | ˚ | ˛ | ˜ | ˝ |

Combining Diacritical Marks

Block from 0300 to 036F

| 0312 | 0323 |
|------|------|
| ´ | . |

Greek and Coptic

Block from 0370 to 03FF

| 037E | 0384 | 0385 | 0386 | 0387 | 0388 | 0389 | 038A | 038C | 038E | 038F | 0390 | 0391 | 0392 | 0393 | 0394 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| ; | ´ | ¨ | À | · | Ê | Ë | Ì | Ó | Υ | Ω | ΐ | Α | Β | Γ | Δ |
| 0395 | 0396 | 0397 | 0398 | 0399 | 039A | 039B | 039C | 039D | 039E | 039F | 03A0 | 03A1 | 03A3 | 03A4 | 03A5 |
| Ε | Ζ | Η | Θ | Ι | Κ | Λ | Μ | Ν | Ξ | Ο | Π | Ρ | Σ | Τ | Υ |
| 03A6 | 03A7 | 03A8 | 03A9 | 03AA | 03AB | 03AC | 03AD | 03AE | 03AF | 03B0 | 03B1 | 03B2 | 03B3 | 03B4 | 03B5 |
| Φ | Χ | Ψ | Ω | ΐ | ΰ | ά | έ | ή | ί | ύ | α | β | γ | δ | ε |
| 03B6 | 03B7 | 03B8 | 03B9 | 03BA | 03BB | 03BC | 03BD | 03BE | 03BF | 03C0 | 03C1 | 03C2 | 03C3 | 03C4 | 03C5 |
| ζ | η | θ | ι | κ | λ | μ | ν | ξ | ο | π | ρ | ς | σ | τ | υ |
| 03C6 | 03C7 | 03C8 | 03C9 | 03CA | 03CB | 03CC | 03CD | 03CE | | | | | | | |
| φ | χ | ψ | ω | ϊ | ϋ | ό | ύ | ώ | | | | | | | |

Cyrillic

Block from 0400 to 04FF

| 0401 | 0402 | 0403 | 0404 | 0405 | 0406 | 0407 | 0408 | 0409 | 040A | 040B | 040C | 040E | 040F | 0410 | 0411 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Ё | Ѡ | Ѳ | Є | Ѕ | І | Ї | Ј | Љ | Њ | Ѣ | Ќ | Ў | Ѥ | А | Б |
| 0412 | 0413 | 0414 | 0415 | 0416 | 0417 | 0418 | 0419 | 041A | 041B | 041C | 041D | 041E | 041F | 0420 | 0421 |
| В | Г | Д | Е | Ж | З | И | Й | К | Л | М | Н | О | П | Р | С |
| 0422 | 0423 | 0424 | 0425 | 0426 | 0427 | 0428 | 0429 | 042A | 042B | 042C | 042D | 042E | 042F | 0430 | 0431 |
| Т | У | Ф | Х | Ц | Ч | Ш | Щ | Ъ | Ы | Ь | Э | Ю | Я | а | б |
| 0432 | 0433 | 0434 | 0435 | 0436 | 0437 | 0438 | 0439 | 043A | 043B | 043C | 043D | 043E | 043F | 0440 | 0441 |
| В | Г | Д | е | Ж | З | и | й | К | Л | М | Н | о | п | р | с |
| 0442 | 0443 | 0444 | 0445 | 0446 | 0447 | 0448 | 0449 | 044A | 044B | 044C | 044D | 044E | 044F | 0451 | 0452 |
| т | у | ф | х | ц | ч | ш | щ | ъ | ы | ь | э | ю | я | ё | ђ |
| 0453 | 0454 | 0455 | 0456 | 0457 | 0458 | 0459 | 045A | 045B | 045C | 045E | 045F | 0462 | 0463 | 0472 | 0473 |
| ѓ | є | ѕ | і | ї | ј | љ | њ | ћ | ќ | ѣ | ѥ | Ѧ | ѧ | Ѩ | ѩ |

| | | | | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 0474 | 0475 | 0490 | 0491 | 0492 | 0493 | 0496 | 0497 | 0498 | 0499 | 049A | 049B | 049C | 049D | 04A0 | 04A1 |
| V | v | Г | г | F | f | Ж | ж | З | з | К | к | К | к | К | к |
| 04A2 | 04A3 | 04AA | 04AB | 04AE | 04AF | 04B0 | 04B1 | 04B2 | 04B3 | 04B8 | 04B9 | 04BA | 04BB | 04C0 | 04CB |
| H | h | С | с | У | у | У | у | Х | х | Ч | ч | h | h | l | у |
| 04CC | 04CF | 04D8 | 04D9 | 04E2 | 04E3 | 04E8 | 04E9 | 04EE | 04EF | | | | | | |
| ч | l | Ə | ə | Й | й | Ө | ө | Ÿ | ÿ | | | | | | |

General Punctuation

Block from 2000 to 206F

| | | | | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 2012 | 2013 | 2014 | 2015 | 2018 | 2019 | 201A | 201C | 201D | 201E | 2020 | 2021 | 2022 | 2026 | 2030 | 2039 |
| — | — | — | — | ‘ | ’ | , | “ | ” | „ | † | ‡ | ▪ | ... | ‰ | ‹ |
| 203A | 2044 | | | | | | | | | | | | | | |
| › | / | | | | | | | | | | | | | | |

Superscripts and Subscripts

Block from 2070 to 209F

| |
|------|
| 2074 |
| ₄ |

Currency Symbols

Block from 20A0 to 20CF

| |
|------|
| 20AC |
| € |

Letterlike Symbols

Block from 2100 to 214F

| | | | |
|----------------|------|------|------|
| 2116 | 2122 | 2126 | 212E |
| N ₂ | ™ | Ω | e |

Number Forms

Block from 2150 to 218F

| | |
|------|------|
| 2153 | 2154 |
| 1/3 | 2/3 |

Arrows

Block from 2190 to 21FF

| 2190 | 2191 | 2192 | 2193 | 2194 | 2195 | 2196 | 2197 | 2198 | 2199 |
|------|------|------|------|------|------|------|------|------|------|
| ← | ↑ | → | ↓ | ↔ | ↕ | ↖ | ↗ | ↘ | ↙ |

Mathematical Operators

Block from 2200 to 22FF

| 2202 | 2206 | 220F | 2211 | 2212 | 2215 | 2219 | 221A | 221E | 222B | 2248 | 2260 | 2264 | 2265 | 22C6 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| ∂ | Δ | Π | Σ | − | / | · | √ | ∞ | ∫ | ≈ | ≠ | ≤ | ≥ | ☀ |

Geometric Shapes

Block from 25A0 to 25FF

| 25AF | 25CA |
|------|------|
| ◻ | ◊ |

Alphabetic Presentation Forms

Block from FB00 to FB4F

| FB00 | FB01 | FB02 | FB03 | FB04 |
|------|------|------|------|------|
| ff | fi | fl | ffi | ffl |

Unencoded Glyphs

All unencoded glyphs are accessible with OpenType layout feature capable applications. For a complete list of supported OpenType layout features see the next section.

Case-Sensitive Forms

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| (|) | - | [|] | { | } | « | - | » | - | — | < | > |

Standard Ligatures

| | | | | | | |
|----|-----|-----|-----|----|----|----|
| - | - | - | - | - | - | - |
| ff | ffi | ffj | ffl | fi | fj | fl |

Localized Forms

| |
|---|
| - |
| i |

Proportional Figures

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| - | - | - | - | - | - | - | - | - | - |
| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |

Slashed Zero

| |
|---|
| - |
| 0 |

Other

| | | | |
|---|---|---|---|
| - | - | - | - |
| □ | , | ˘ | , |

OpenType Layout Features

For details about OpenType Layout Features see the [OpenType Layout tag registry](#).

Substitution Features



Access All Alternates

This feature makes all variations of a selected character accessible.



Standard Ligatures

Replaces a sequence of glyphs with a single glyph which is preferred for typographic purposes. This feature covers the ligatures which the designer/manufacture judges should be used in normal conditions.



Proportional Figures

Replaces figure glyphs set on uniform (tabular) widths with corresponding glyphs set on glyph-specific (proportional) widths.



Slashed Zero

Some fonts contain both a default form of zero, and an alternative form which uses a diagonal slash through the counter. This feature allows the user to change from the default 0 to a slashed form.



Ordinals

Replaces default alphabetic glyphs with the corresponding ordinal forms for use after figures.



Case-Sensitive Forms

Shifts various punctuation marks up to a position that works better with all-capital sequences or sets of lining figures; also changes oldstyle figures to lining figures.



Localized Forms

This feature enables localized forms of glyphs to be substituted for default forms.



Mathematical Greek

Replaces standard typographic forms of Greek glyphs with corresponding forms commonly used in mathematical notation (which are a subset of the Greek alphabet).

Positioning Features



Capital Spacing

Globally adjusts inter-glyph spacing for all-capital text. Most typefaces contain capitals and lowercase characters, and the capitals are positioned to work with the lowercase. When capitals are used for words, they need more space between them for legibility and esthetics.



Kerning

Adjusts amount of space between glyphs, generally to provide optically consistent spacing between glyphs.

Codepages

MacOS

MacOS Central Europe
MacOS Croatian
MacOS Cyrillic
MacOS Greek

MacOS Icelandic
MacOS Roman
MacOS Romanian
MacOS Turkish

MS Windows

MS Windows 1250 Central European
MS Windows 1251 Cyrillic
MS Windows 1252 Western (ANSI)

MS Windows 1253 Greek
MS Windows 1254 Turkish
MS Windows 1257 Baltic

ISO

ISO 8859- 1 Latin 1 (Western)
ISO 8859- 2 Latin 2 (Central Europe)
ISO 8859- 3 Latin 3 (Tu, Malt, Gal, Esp)
ISO 8859- 4 Latin 4 (Baltic)
ISO 8859- 5 Cyrillic

ISO 8859- 9 Latin 5 (Turkish)
ISO 8859-10 Latin 6 (Scandinavian)
ISO 8859-13 Latin 7 (Baltic 2)
ISO 8859-15 Latin 9
ISO 8859-16 Latin 10

IBM

IBM 37 United States - EBCDIC (IBM-28709)
IBM 273 Germany - EBCDIC
IBM 277 Denmark, Norway - EBCDIC
IBM 278 Finland, Sweden - EBCDIC
IBM 280 Italy - EBCDIC
IBM 284 Spain, Latin America - EBCDIC
IBM 285 United Kingdom - EBCDIC
IBM 297 France - EBCDIC

IBM 500 International - EBCDIC
IBM 871 Iceland - EBCDIC
IBM 875 Greece - EBCDIC
IBM 921 Baltic
IBM 1025 Cyrillic - EBCDIC
IBM 1047 Open Systems - EBCDIC
IBM 1112 Baltic - EBCDIC
IBM 1123 Cyrillic Ukraine EBCDIC

Languages

Information about languages is mainly based on the Unicode Common Locale Data Repository. For details visit the [Unicode CLDR Project](#).

Latin

| | | | |
|---------------|--------------|-------------------|-----------------|
| Albanian | Finnish | Lithuanian | Somali |
| Basque | French | Malay | Sorbian, Lower |
| Bosnian | Frisian West | Maltese | Sorbian, Upper |
| Cornish | Friulian | Manx | Sotho, Northern |
| Crimean Tatar | Galician | Moldavian | Sotho, Southern |
| Croatian | German | Norwegian Bokmål | Spanish |
| Czech | Icelandic | Norwegian Nynorsk | Swahili |
| Danish | Indonesian | Oromo | Swati |
| Dutch | Interlingua | Polish | Swedish |
| English | Irish | Portuguese | Tsonga |
| Esperanto | Italian | Romanian | Turkish |
| Estonian | Kalaallisut | Sami Northern | Xhosa |
| Faroese | Kinyarwanda | Slovak | Zulu |
| Filipino | Latvian | Slovenian | |

Greek

Greek

Cyrillic

| | | | |
|------------|------------|---------|-------|
| Bashkir | Chechen | Russian | Uzbek |
| Belarusian | Kazakh | Serbian | |
| Bulgarian | Macedonian | Tatar | |
| Buriat | Mongolian | Uighur | |