Fira Sans SemiBold Italic

Technical Documentation



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Encoded Characters

All encoded characters should be accessible with every unicode capable application. For details about Unicode Blocks visist the <u>Unicode Website</u>.

Basic Latin

Block from 0000 to 007F

| 000D | 0020 | 0021 | 0022 | 0023 | 0024 | 0025 | 0026 | 0027 | 0028 | 0029 | 002A | 002B | 002C | 002D | 002E |
|------|----------|------|------|------------------|------|----------|------|------|------|------|------|----------|------|------|------|
| | | I | 11 | # | 5 | % | ጹ | ı | |) | * | + | | _ | |
| 002F | 0030 | 0031 | 0032 | 0033 | 0034 | 0035 | 0036 | 0037 | 0038 | 0039 | 003A | 003B | 003C | 003D | 003E |
| 1 | | | | | | | | | | | | 0000 | | | |
| / | U | 1 | 2 | 3 | 4 | 5 | 0 | | 8 | 9 | • | , | < | = | > |
| 003F | 0040 | 0041 | 0042 | 0043 | 0044 | 0045 | 0046 | 0047 | 0048 | 0049 | 004A | 004B | 004C | 004D | 004E |
| ? | @ | A | В | \boldsymbol{C} | D | Ε | F | G | Η | - [| - | K | L | M | Ν |
| 004F | 0050 | 0051 | 0052 | 0053 | 0054 | 0055 | 0056 | 0057 | 0058 | 0059 | 005A | 005B | 005C | 005D | 005E |
| Λ | P | 0 | D | C | T | 11 | W | 1// | X | V | 7 | Γ | 1 | 7 | Λ |
| U | | Y | Л | 3 | ı | U | V | VV | Λ | I | _ | L | 1 | J | |
| 005F | 0060 | 0061 | 0062 | 0063 | 0064 | 0065 | 0066 | 0067 | 0068 | 0069 | 006A | 006B | 006C | 006D | 006E |
| | | a | b | C | d | e | f | q | h | 1 | 1 | ĸ | l | m | n |
| 006F | 0070 | 0071 | 0072 | 0073 | 0074 | 0075 | 0076 | 0077 | 0078 | 0079 | 007A | 007B | 007C | 007D | 007E |
| Ω | n | Ω | r | C | + | | W | 1// | X | 1/ | 7 | { | - 1 | 3 | ~ |
| U | Ρ | Ч | ı | 3 | L | u | V | VV | Λ | y | | l | 1 | J | . • |

Latin-1 Supplement

Block from 0080 to 00FF

| 00A0 | 00A1 | 00A2 | 00A3 | 00A4 | 00A5 | 00A6 | 00A7 | 00A8 | 00A9 | 00AA | 00AB | 00AC | 00AD | 00AE | 00AF |
|------|----------|------|------|------|------|------|------------------|------|----------|----------|-----------------|------|------|------|------|
| | i | Ċ | £ | ¤ | ¥ | 1 | § | •• | © | <u>a</u> | ((| 7 | _ | R | _ |
| 00B0 | 00B1 | 00B2 | 00B3 | 00B4 | 00B5 | 00B6 | 00B7 | 00B8 | 00B9 | 00BA | 00BB | 00BC | 00BD | 00BE | 00BF |
| 0 | <u>+</u> | 2 | 3 | | μ | П | • | | 1 | 0 | >> | 1/4 | 1/2 | 3/4 | ; |
| 00C0 | 00C1 | 00C2 | 00C3 | 00C4 | 00C5 | 00C6 | 00C7 | 00C8 | 00C9 | 00CA | 00CB | 0000 | 00CD | 00CE | 00CF |
| À | Á | Â | Ã | Ä | Ă | Æ | C | È | É | Ê | Ë | Ì | ĺ | Î | Ï |
| 00D0 | 00D1 | 00D2 | 00D3 | 00D4 | 00D5 | 00D6 | 00D7 | 00D8 | 00D9 | 00DA | 00DB | 00DC | 00DD | 00DE | 00DF |
| Đ | 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 | C | è | é | ê | ë | ì | í | î | ï |
| 00F0 | 00F1 | 00F2 | 00F3 | 00F4 | 00F5 | 00F6 | 3 00F7 | 00F8 | 00F9 | 00FA | 00FB | 00FC | 00FD | 00FE | 00FF |
| ð | ñ | ò | Ó | ô | õ | ö | • | Ø | ù | ú | û | ü | Ý | b | ÿ |
| | | | | | | | • | Y | u | U | v | u | y | P | y |

Latin Extended-A

Block from 0100 to 017F

| 0100 | 0101 | 0102 | 0103 | 0104 | 0105 | 0106 | 0107 | 0108 | 0109 | 010A | 010B | 010C | 010D | 010E | 010F |
|-------------------|------|------------------|---------------|------|-----------|------|-----------|------|------|------|------------------|------|------|------|------------------|
| Α | ā | A | ă | Ą | ą | C | Ć | C | ĉ | Č | Ċ | Č | č | Ď | ď |
| 0110 | 0111 | 0112 | 0113 | 0114 | 0115 | 0116 | 0117 | 0118 | 0119 | 011A | 011B | 011C | 011D | 011E | 011F |
| Đ | đ | Ē | ē | Ĕ | ĕ | Ě | ė | Ę | ę | Ě | ě | Ĝ | ĝ | Ğ | ğ |
| 0120 | 0121 | 0122 | 0123 | 0124 | 0125 | 0126 | 0127 | 0128 | 0129 | 012A | 012B | 012C | 012D | 012E | 012F |
| Ğ | ġ | G | ģ | Ĥ | h | Ħ | ħ | Ĩ | ĩ | Ī | Ī | Ĭ | ĭ | 1 | i |
| 0130 | 0131 | 0132 | 0133 | 0134 | 0135 | 0136 | 0137 | 0138 | 0139 | 013A | 013B | 013C | 013D | 013E | 013F |
| İ | I | II | ii | Î | î | K | k | K | Ĺ | ĺ | L | l | Ľ | ľ | Ŀ |
| 0140 | 0141 | 0142 | 0143 | 0144 | 0145 | 0146 | 0147 | 0148 | 0149 | 014A | 9 014B | 014C | 014D | 014E | 014F |
| ŀ | Ł | ł | Ń | ń | N | n | Ň | ň | 'n | Ŋ | ŋ | Ō | Ō | Ŏ | ŏ |
| 0150 | 0151 | 0152 | 0153 | 0154 | 9 0155 | 0156 | 0157 | 0158 | 0159 | 015A | 015B | 015C | 015D | 015E | 015F |
| Ö | ő | Œ | œ | Ŕ | ŕ | R | r | Ř | ř | Ś | Ś | Ŝ | ŝ | S | S |
| 0160 | 0161 | 0162 | 0163 | 0164 | 0165 | 0166 | 9 0167 | 0168 | 0169 | 016A | 016B | 016C | 016D | 016E | 3 016F |
| ⁰¹⁶⁰ Š | Š | T | t | Ť | ť | Ŧ | ŧ | Ŭ | ũ | Ū | ū | Ŭ | ŭ | 016E | ů |
| 0170 | 0171 | 3 0172 | 5 0173 | 0174 | 0175 | 0176 | 0177 | 0178 | 0170 | 017A | 017B | 017C | 017D | 017E | 017F |
| Ű | ű | U | Ų | Ŵ | ŵ | Ŷ | ŷ | Ÿ | Ź | ź | Ż | ż | Ž | ž | ſ |
| | • | 7 | 7 | | | - | J | - | | _ | | _ | | _ | _ |

Latin Extended-B

Block from 0180 to 024F

| 0190 | 0191 | 0192 | 0193 | 0194 | 0195 | 0196 | 0197 | 0198 | 0199 | 019A | 019B | 019C | 019D | 019E | 019F |
|------|---------------|------|------|------|------|------|----------|------|------|------|------|------|------|----------|------|
| 3 | F | f | G | X | h | L | ł | K | Ŕ | t | Ã | Ш | N | η | θ |
| 01A0 | 01A1 | 01A2 | 01A3 | 01A4 | 01A5 | 01A6 | 01A7 | 01A8 | 01A9 | 01AA | 01AB | 01AC | 01AD | 01AE | 01AF |
| σ | O | O | O | P | þ | R | S | S | Σ | 9 | ţ | T | ť | T | U |
| 01B0 | 01B1 | 01B2 | 01B3 | 01B4 | 01B5 | 01B6 | 01B7 | 01B8 | 01B9 | 01BA | 01BB | 01BC | 01BD | 01BE | 01BF |
| ľ | \mathcal{O} | U | Y | y | Z | Z | 3 | 3 | 3 | 3 | 2 | 5 | 5 | 5 | P |
| 01C0 | 01C1 | 01C2 | 01C3 | 01C4 | 01C5 | 01C6 | 01C7 | 01C8 | 01C9 | 01CA | 01CB | 01CC | 01CD | 01CE | 01CF |
| I | II | ŧ | ! | DZ | Dz | dz | LJ | Lj | IJ | NJ | Nj | nj | A | ă | 1 |
| 01D0 | 01D1 | 01D2 | 01D3 | 01D4 | 01D5 | 01D6 | 01D7 | 01D8 | 01D9 | 01DA | 01DB | 01DC | 01DD | 01DE | 01DF |
| Ĭ | 0 | Ŏ | U | Ŭ | Ü | ü | Ü | ű | Ü | ŭ | Ú | Ü | Э | Α | ã |



IPA Extensions

Block from 0250 to 02AF

| 0250 | 0251 | 0252 | 0253 | 0254 | 0255 | 0256 | 0257 | 0258 | 0259 | 025A | 025B | 025C | 025D | 025E | 025F |
|------|----------|------|----------|-------|------|------|------|------|------|----------------------------|------|------|------|------|------|
| e | a | Ø | Б |) | 6 | d | ď | 9 | 9 | ð | 3 | 3 | 3 | B | Ħ |
| 0260 | 0261 | 0262 | 0263 | 0264 | 0265 | 0266 | 0267 | 0268 | 0269 | 026A | 026B | 026C | 026D | 026E | 026F |
| g | g | G | X | Y | Ч | h | Ŋ | + | l | I | ł | 4 | L | 13 | Ш |
| 0270 | 0271 | 0272 | 0273 | 0274 | 0275 | 0276 | 0277 | 0278 | 0279 | 027A | 027B | 027C | 027D | 027E | 027F |
| Щ | m | ŋ | η | N | θ | Œ | ω | φ | J | J | 1 | r | ľ | ſ | 7 |
| 0280 | 0281 | 0282 | 0283 | 0284 | 0285 | 0286 | 0287 | 0288 | 0289 | 028A | 028B | 028C | 028D | 028E | 028F |
| R | R | Ş | J | J | 1 | J | 1 | t | Ħ | $\boldsymbol{\mathcal{O}}$ | U | Λ | M | Λ | Y |
| 0290 | 0291 | 0292 | 0293 | 0294 | 0295 | 0296 | 0297 | 0298 | 0299 | 029A | 029B | 029C | 029D | 029E | 029F |
| Z | Z | 3 | 3 | 7 | 5 | 5 | C | 0 | В | Ð | G | Н | J | K | L |
| 02A0 | 02A1 | 02A2 | 02A3 | 02A4 | 02A5 | 02A6 | 02A7 | 02A8 | 02A9 | 02AA | 02AB | 02AC | 02AD | 02AE | 02AF |
| q | f | ¥ | az | a_3 | CZ, | U | y | te | πj | S | ΙZ | W | | Ч | Ч |

Spacing Modifier Letters

| 02B0 | 02B1 | 02B2 | 02B4 | 02B7 | 02B8 | 02B9 | 02BA | 02BB | 02BC | 02BF | 02C0 | 02C6 | 02C7 | 02C8 | 02CA |
|------|------|------|------|----------|------|------|----------|------|------|------|------|------|------|------|------|
| h | h | j | J | W | У | / | // | 4 | , | (| 7 | ^ | ~ | • | |
| | | | | | | | | | | | | | | | |
| 02CB | 02CC | 02CE | 02CF | 02D0 | 02D1 | 02D4 | 02D6 | 02D7 | 02D8 | 02D9 | 02DA | 02DB | 02DC | 02DD | 02DE |
| • | | | | • | • | | | _ | | • | 0 | | ~ | 11 | a. |
| | | | _ | A | | _ | T | _ | | | | C | | | |
| 02E0 | 02E1 | 02E2 | 02E3 | 02E4 | 02E5 | 02E6 | 02E7 | 02E8 | 02E9 | 02EE | | _ | | | |
| Y | l | S | X | ٢ | 7 | 1 | 4 | • | • | " | | | | | |
| • | | | | | | - 1 | 7 | -4 | - 1 | | | | | | |

Combining Diacritical Marks

Block from 0300 to 036F

| 0300 | 0301 0302 | 0303 03 | 304 0306 | 0307 | 0308 • • | 0309 | 030A | 030B | 030C | 030D | 030F | 0311 | 0312 |
|-----------|----------------------|---------|----------|------|------------------|------|------|------|------|------|-----------|-------------|------|
| 0313 | 0316 0317 | 0318 03 | 319 031A | 031B | 031C | 031D | 031E | 031F | 0320 | 0321 | 0323 | 0324 | 0325 |
| 0326 | 0327 0328 | 0329 03 | 32A 032B | 032C | C 032D | 032F | 0330 | 0331 | 0332 | 0334 | • 0335 | • • 0336 | 0339 |
| 9 033A | 5 C 033B 033C | 033D 03 | 342 0345 | 035C | 0361 | ^ | ~ | - | _ | ~ | _ ' | | • |
| _ | _ | 033D 03 | 342 0345 | _ | | ^ | ~ | - | _ | | | | |

Greek and Coptic

Block from 0370 to 03FF

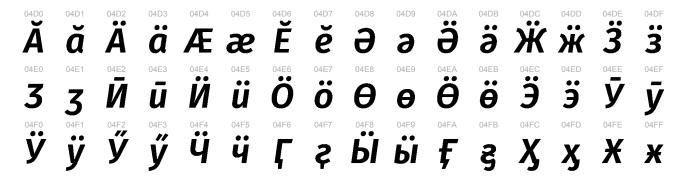
| 0370 | 0371 | 0372 | 0373 | 0374 | 0375 | 0376 | 0377 | 037A | 037B | 037C | 037D | 037E | 037F | 0384 | 0385 |
|--------------|------|------|------|------|------|------|------|------|----------|------|----------|------|------|------|------|
| H | L | T | T | / | , | И | И | | ၁ | E | Э | • | 1 | • | •*• |
| 0386 | 0387 | 0388 | 0389 | 038A | 038C | 038E | 038F | 0390 | 0391 | 0392 | 0393 | 0394 | 0395 | 0396 | 0397 |
| / <u>/</u> / | | | | | | | Ώ | | | | | | | | |
| A | • | E | П | ı | U | Y | 12 | l | A | В | 1 | Δ | E | | П |
| 0398 | 0399 | 039A | 039B | 039C | 039D | 039E | 039F | 03A0 | 03A1 | 03A3 | 03A4 | 03A5 | 03A6 | 03A7 | 03A8 |
| Θ | | K | Λ | Μ | N | Ξ | 0 | П | P | Σ | T | Y | Φ | X | Ψ |
| 03A9 | 03AA | 03AB | 03AC | 03AD | 03AE | 03AF | 03B0 | 03B1 | 03B2 | 03B3 | 03B4 | 03B5 | 03B6 | 03B7 | 03B8 |
| \mathbf{O} | ï | Ÿ | 4 | ć | 'n | / | ΰ | ~ | R | 1/ | 2 | _ | 7 | n | θ |
| 12 | ı | I | u | 2 | " | ı | U | u | P | Y | U | 3 | 5 | " | U |
| 03B9 | 03BA | 03BB | 03BC | 03BD | 03BE | 03BF | 03C0 | 03C1 | 03C2 | 03C3 | 03C4 | 03C5 | 03C6 | 03C7 | 03C8 |
| l | K | Λ | μ | V | ξ | 0 | π | D | C | σ | T | U | Ø | X | W |

| Þ | þ | C | M | М | p |) | E | 3 | | | | | | | |
|------|------|------|------|------|------|----------|------|------|------|------|------|------|------|------------|------|
| 03F7 | 03F8 | 03F9 | 03FA | 03FB | 03FC | 03FD | 03FE | 03FF | | | | | | | |
| Q | 5 | 5 | F | F | 4 | 4 | Λ | M | И | б | C | j | Θ | ϵ | Э |
| 03D9 | 03DA | 03DB | 03DC | 03DD | 03DE | 03DF | 03E0 | 03E1 | 03F0 | 03F1 | 03F2 | 03F3 | 03F4 | 03F5 | 03F6 |
| ω | ï | Ü | Ó | ΰ | ώ | K | 6 | 9 | Y | 'Y | Ÿ | φ | ធ | Ŋ | Q |
| 03C9 | 03CA | 03CB | 03CC | 03CD | 03CE | 03CF | 03D0 | 03D1 | 03D2 | 03D3 | 03D4 | 03D5 | 03D6 | 03D7 | 03D8 |

Cyrillic

Block from 0400 to 04FF

| Block tro | om 0400 |) to U4FF | • | | | | | | | | | | | | |
|-----------|------------------------|-----------|------|-------------------------|------------|------|-------------|------|------|------|------------------|------|------|------|-----------|
| 0400 | 0401 | 0402 | 0403 | 0404 | 0405 | 0406 | 0407 | 0408 | 0409 | 040A | 040B | 040C | 040D | 040E | 040F |
| Ε | Ε | ħ | Γ | $\boldsymbol{\epsilon}$ | 5 | - | 1 | J | Љ | Њ | ħ | K | И | У | Ц |
| 0410 | 0411 | 0412 | 0413 | 0414 | 0415 | 0416 | 0417 | 0418 | 0419 | 041A | 041B | 041C | 041D | 041E | 041F |
| A | Б | В | Γ | Л | Ε | Ж | 3 | И | Й | K | Л | M | Н | 0 | П |
| 0420 | 0421 | 0422 | 0423 | 0424 | 0425 | 0426 | 0427 | 0428 | 0429 | 042A | 042B | 042C | 042D | 042E | 042F |
| P | C | T | У | Φ | X | Ц | Ч | Ш | Ш | Ъ | Ы | Ь | 3 | Ю | Я |
| 0430 | 0431 | 0432 | 0433 | 0434 | 0435 | 0436 | 0437 | 0438 | 0439 | 043A | 043B | 043C | 043D | 043E | 043F |
| а | б | в | S | 6 | e | Ж | 3 | u | ŭ | К | Л | М | Н | 0 | П |
| 0440 | 0441 | 0442 | 0443 | 0444 | 0445 | 0446 | 0447 | 0448 | 0449 | 044A | 044B | 044C | 044D | 044E | 044F |
| _ | _ | | | _ | | | | | | _ | | _ | _ | | _ |
| p | C | m | y | ф | X | Ц | Ч | ш | щ | Ъ | Ы | Ь | Э | Ю | Я |
| 0450 | 0451 | 0452 | 0453 | 0454 | 0455 | 0456 | 0457 • • | 0458 | 0459 | 045A | 045B | 045C | 045D | 045E | 045F |
| e | e | ħ | S | $\boldsymbol{\epsilon}$ | S | I | I | J | Љ | њ | ħ | K | u | y | μ |
| 0460 | 0461 | 0462 | 0463 | 0464 | 0465 | 0466 | 0467 | 0468 | 0469 | 046A | 046B | 046C | 046D | 046E | 046F |
| ω | ω | Б | Б | $\boldsymbol{\epsilon}$ | Æ | A | A | H | H | X | X | X | Ж | ž | ž |
| 0470 | 0471 | 0472 | 0473 | 0474 | 0475 | 0476 | 0477 | 0478 | 0479 | 048A | 048B | 048C | 048D | 048E | 048F |
| Ψ | Ψ | θ | θ | V | V | V | Ÿ | Oy | OV | И | й | Б | ъ | P | p |
| 0490 | 0491 | 0492 | 0493 | 0494 | 0495 | 0496 | 0497 | 0498 | 0499 | 049A | 049B | 049C | 049D | 049E | 049F |
| | 7 | F | 8 | Ŋ | h | Ж | Ж | 3 | 3 | K | Ķ | К | K | K | k |
| 04A0 | 04A1 | 04A2 | 04A3 | 04A4 | 04A5 | 04A6 | 04A7 | 04A8 | 04A9 | 04AA | 04AB | 04AC | 04AD | 04AE | 04AF |
| K | Ж | Н | Ц | Н | н | Пŋ | Πh | Q | Q | Ç | Ç | Ţ | m | Y | V |
| 04B0 | 04B1 | 04B2 | 04B3 | 04B4 | 04B5 | 04B6 | 04B7 | 04B8 | 04B9 | 04BA | 3 04BB | 04BC | 04BD | 04BE | 04BF |
| ¥ | V | X | X | Ц | TI | Ч | u | Ч | Ч | h | h | e | e | ę | Ø |
| 04C0 | Y | 04C2 | 04C3 | 04C4 | U , | 04C6 | 4 | 04C8 | 04C9 | 04CA | 04CB | 04CC | 04CD | 04CE | ę 04CF |
| _ | 14C1 | | | | | | | | | | | | | | _ |
| I | $\boldsymbol{\Lambda}$ | Ж | K | K | Д | Ӆ | H | H | H, | H, | Y | Y | M, | M, | l |



Cyrillic Supplement

Block from 0500 to 052F



Phonetic Extensions

Block from 1D00 to 1D7F



Phonetic Extensions Supplement

Block from 1D80 to 1DBF



Combining Diacritical Marks Supplement

Block from 1DCO to 1DFF



Latin Extended Additional

Block from 1E00 to 1EFF

| 1E02 | 1E03 | 1E04 | 1E05 | 1E0A | 1E0B | 1E0C | 1E0D | 1E0E | 1E0F | 1E12 | 1E13 | 1E1E | 1E1F | 1E24 | 1E25 |
|------|------|-----------|------|------|------|------------------|-----------|-----------|------|------|------|------|------|------------------|--------|
| В | b | B | þ | D | d | D | d | D | d | D | d | F | f | H | h |
| 1E2E | 1E2F | 1E36 | 1E37 | 1E3C | 1E3D | 1E3E | 1E3F | 1E40 | 1E41 | 1E44 | 1E45 | 1E46 | 1E47 | 1E4A | 1E4B |
| Ī | Ï | Ļ | l | L | l | M | m | M | m | N | ň | Ŋ | n | Ŋ | n |
| 1E4C | 1E4D | 1E50 | 1E51 | 1E52 | 1E53 | 1E54 | 1E55 | 1E56 | 1E57 | 1E5A | 1E5B | 1E60 | 1E61 | 1E62 | 1E63 |
| 0 | ố | 0 | Ō | 0 | Ó | Ŕ | Ŕ | P | Ď | R | r | S | Š | S | S |
| 1E6A | 1E6B | 1E6C | 1E6D | 1E6E | 1E6F | 1E70 | 1E71 | 1E78 | 1E79 | 1E80 | 1E81 | 1E82 | 1E83 | ● 1E84 ● ● | 1E85 |
| T | ť | T | t | T | t | T | t | U | ű | W | Ŵ | W | Ŵ | W | W |
| 1E92 | 1E93 | ● 1E9E | 1EA0 | 1EA1 | 1EA2 | 1EA3 | 1EA4 | 1EA5 | 1EA6 | 1EA7 | 1EA8 | 1EA9 | 1EAA | 1EAB | 1EAC |
| Z | Z | ß | A | a | A | á | Â | â | Â | â | Â | â | Â | ã | Â |
| 1EAD | 1EAE | 1EAF | 1EB0 | 1EB1 | 1EB2 | 1EB3 | 1EB4 | 1EB5 | 1EB6 | 1EB7 | 1EB8 | 1EB9 | 1EBA | 1EBB | 1EBC |
| â | A | ă | A | ă | A | 1EB3 3 | A | ã | A | ă | Ε | e | Ε | ė | Ê |
| 1EBD | 1EBE | 1EBF | 1EC0 | 1EC1 | 1EC2 | 1EC3 | 1EC4 | 1EC5 | 1EC6 | 1EC7 | 1EC8 | 1EC9 | 1ECA | 1ECB | 1ECC |
| ẽ | Ê | ê | Ê | è | Ê | ê | Ê | ê | Ê | ê | | ĺ | | Ĭ | 0 |
| 1ECD | 1ECE | 1ECF | 1ED0 | 1ED1 | 1ED2 | 1ED3 | 1ED4 | 1ED5 | 1ED6 | 1ED7 | 1ED8 | 1ED9 | 1EDA | 1EDB | 1EDC |
| 0 | 0 | Ó | Ô | ố | Ô | ô | Ô | ô | Ô | õ | Ô | ô | Ó | Ó | Ò |
| 1EDD | 1EDE | 1EDF | 1EE0 | 1EE1 | 1EE2 | 1EE3 | 1EE4 | 1EE5 | 1EE6 | 1EE7 | 1EE8 | 1EE9 | 1EEA | 1EEB | 1EEC |
| Ò | O | ď | Õ | õ | O | O | U | u | U | Ú | Ú | ứ | Ű | ù | TEEC U |
| 1EED | 1EEE | 1EEF | 1EF0 | 1EF1 | 1EF2 | 1EF3 | e 1EF4 | e 1EF5 | 1EF6 | 1EF7 | 1EF8 | 1EF9 | | | |
| ử | U | ữ | U | ľ | Y | ŷ | Y | V | Y | ý | Y | Ÿ | | | |
| | | | • | • | | | • | - | | | | | | | |

Greek Extended

Block from 1F00 to 1FFF

| 1F00 | 1F01 | 1F02 | 1F03 | 1F04 | 1F05 | 1F06 | 1F07 | 1F08 | 1F09 | 1F0A | 1F0B | 1F0C | 1F0D | 1F0E | 1F0F |
|------|------|------|------|------|------|------|------|------|------|------|----------|------------|------|------|------|
| ά | ά | ä | ä | α̈́ | ά | ά | ά | Ά | Ά | Ά | X | " A | Ά | Ά | Ã |
| 1F10 | 1F11 | 1F12 | 1F13 | 1F14 | 1F15 | 1F18 | 1F19 | 1F1A | 1F1B | 1F1C | 1F1D | 1F20 | 1F21 | 1F22 | 1F23 |
| έ | έ | Ë | 3 | Ë | ž | Έ | Έ | "E | "E | "E | "E | ή | ή | η | η |
| 1F24 | 1F25 | 1F26 | 1F27 | 1F28 | 1F29 | 1F2A | 1F2B | 1F2C | 1F2D | 1F2E | 1F2F | 1F30 | 1F31 | 1F32 | 1F33 |
| ή | ή | ή | ή | Ή | Ή | "H | "H | "H | "H | ĩΗ | řΗ | ĺ | i | Ï | Ï |
| 1F34 | 1F35 | 1F36 | 1F37 | 1F38 | 1F39 | 1F3A | 1F3B | 1F3C | 1F3D | 1F3E | 1F3F | 1F40 | 1F41 | 1F42 | 1F43 |
| ľ | Ï | Ĩ | Ĩ | 1 | 7 | 7 | " | " | " | 7 | 7 | Ó | ò | Ő | Ö |

| \ddot{O} | |
|---|---|
| Ϋ́Υ'Υ'Υ'Υ'Υ' Μ΄ | "Ω "Ω 1F7A 1F7B |
| Υ $Υ$ $Υ$ $Υ$ $Υ$ $ω$ | 1F7A 1F7B Û Ú 1F8C 1F8D ''A ''A |
| "Ω "Ω "Ω α α ε ε η ή ή ι ί ο ο ο 1570 1570 1570 1570 1570 1570 1570 1570 | ψ |
| 1F7C 1F7D 1F80 1F81 1F82 1F83 1F84 1F85 1F86 1F87 1F88 1F89 1F8A 1F8B | ### U 1F8D 1F8D 1F8D 1F8D 1F8D 1F8D 1F8D 1F8D |
| 1F7C 1F7D 1F80 1F81 1F82 1F83 1F84 1F85 1F86 1F87 1F88 1F89 1F8A 1F8B | Ř, Ř |
| | |
| ωωάάαααάάΑΑΑΑΑΑ | |
| 1F8E 1F8F 1F90 1F91 1F92 1F93 1F94 1F95 1F96 1F97 1F98 1F99 1F9A 1F9B | 7/8 E 3/8 E |
| ĄĄńńńäńńń | H H |
| 1F9E 1F9F 1FA0 1FA1 1FA2 1FA3 1FA4 1FA5 1FA6 1FA7 1FA8 1FA9 1FAA 1FAB | 1FAC 1FAD |
| Τ' Τ | "0" |
| 1FAE 1FAF 1FB0 1FB1 1FB2 1FB3 1FB4 1FB6 1FB7 1FB8 1FB9 1FBA 1FBB 1FBC | 1FBD 1FBE |
| | • |
| | TFCE 1FCF |
| | 1FCE 1FCF |
| ' " ຫຼື ຫຼຸ ຫຼື ຫຼື "E "E 'H 'H Ḥ " | |
| 1FD0 1FD1 1FD2 1FD3 1FD6 1FD7 1FD8 1FD9 1FDA 1FDB 1FDD 1FDE 1FDF 1FE0 | 1FE1 1FE2 |
| ĭīîîîill'''''Ŭ | UU |
| 1FE3 1FE4 1FE5 1FE6 1FE7 1FE8 1FE9 1FEA 1FEB 1FEC 1FED 1FEE 1FEF 1FF2 | 1FF3 1FF4 |
| ÜρρῦϋΥΥΥΎΡ¨˙ψ | ω ω |
| 1FF6 1FF7 1FF8 1FF9 1FFA 1FFB 1FFC 1FFD 1FFE | - |
| ωωνοναρί | |

General Punctuation

Block from 2000 to 206F

| " | " | † | # | • | ••• | ‰ | < | > | | / | 7 | | | | |
|------|------|----------|------|------|--------|------|------|------|------|------|------|------|------|------|------|
| 201D | 201E | 2020 | 2021 | 2022 | 2026 | 2030 | 2039 | 203A | 203F | 2044 | 204A | | | • | |
| | | | | Ť | \int | 1 | _ | _ | _ | _ | | 6 | , | , | " |
| 2007 | 2008 | 200B | 200C | 200D | 200E | 200F | 2012 | 2013 | 2014 | 2015 | 2016 | 2018 | 2019 | 201A | 201C |

Superscripts and Subscripts

Block from 2070 to 209F

| 3 | 4 | 5 | 6 | 7 | 8 | 9 | + | _ | = | (|) | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|------|
| 2083 | 2084 | 2085 | 2086 | 2087 | 2088 | 2089 | 208A | 208B | 208C | 208D | 208E | | U | • | 2 |
| 0 | 4 | 5 | 6 | 7 | 8 | 9 | + | - | = | (|) | n | 0 | 1 | 2 |
| 2070 | 2074 | 2075 | 2076 | 2077 | 2078 | 2079 | 207A | 207B | 207C | 207D | 207E | 207F | 2080 | 2081 | 2082 |

Currency Symbols

Block from 20A0 to 20CF

20AC 20AF 20B9 20BA 20BE **€ Dp ₹ ₺ ₽**

Letterlike Symbols

Block from 2100 to 214F



Number Forms

Block from 2150 to 218F

1/3 2/3 1/5 2/5 3/5 4/5 1/6 5/6 1/8 3/8 5/8 7/8 1/

Arrows

Block from 2190 to 21FF



Mathematical Operators

Block from 2200 to 22FF



Miscellaneous Technical

Block from 2300 to 23FF

2328

232B





Geometric Shapes

Block from 25A0 to 25FF 25CA

25AF





Dingbats

Block from 2700 to 27BF



Miscellaneous Symbols and Arrows

Block from 2B00 to 2BFF







Latin Extended-C

Block from 2C60 to 2C7F

2C66

Latin Extended-D

Block from A720 to A7FF



ΙΧΒβωω

unassigned Block

Block from AB30 to ABBF

AB53



Private Use Area

Block from E000 to F8FF





Alphabetic Presentation Forms

Block from FB00 to FB4F



Arabic Presentation Forms-B

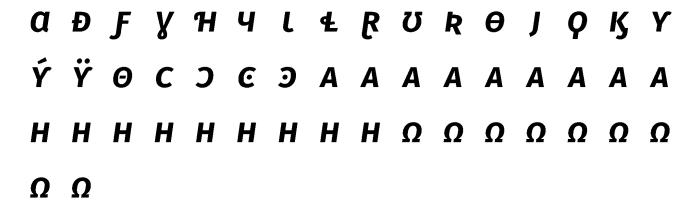
Block from FE70 to FEFF

FEFF

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.

Small Capitals From Capitals



Small Capitals From Capitals, Contextual Alternates, Small Capitals

ΪΫ

Small Capitals From Capitals, Small Capitals



| Н | Ħ | Ň | Ĥ | Ĥ | I | ĺ | Ĭ | Ĭ | î | ï | ï | í | i | ! | ì |
|---|---|----------|------------|---|----|----|----------|------------|----------|---|---|----|---|---|---|
| ì | î | IJ | Ī | Į | + | ĩ | J | ĵ | ţ | K | K | Ķ | K | L | Ĺ |
| Ł | Ľ | Ť | Ļ | Ŀ | Ļ | LJ | Ł | M | Ń | ш | N | Ń | Ň | Ň | Ņ |
| Ň | Ņ | Ñ | Ŋ | Ŋ | NJ | Ñ | 0 | Ó | ŏ | ŏ | ô | ố | ộ | Ô | ố |
| Õ | ő | ö | ö | Ö | ō | Ò | ò | ỏ | o | Ó | Ò | ờ | ở | õ | ő |
| O | ô | ō | Ó | ō | Q | ō | ၁ | Ø | Ó | õ | ố | ō | 8 | Œ | P |
| Ŕ | P | Þ | Q | q | R | Ŕ | Ř | Ŗ | Ř | Ŗ | Ŕ | R | S | Ś | š |
| Ş | ŝ | Ş | Ş | ß | ð | T | Ŧ | Ť | Ţ | Ţ | Ţ | 7 | Ţ | τ | Ţ |
| 5 | ъ | S | τ | U | Ú | Ħ | Ŭ | Ŭ | Û | Ű | Ü | ΰ | Ŭ | Ù | Ü |
| Ų | Ù | Ů | U ′ | Ú | Ų, | Ù | ử | Ũ | ű | Û | Ū | Ų | ů | Ũ | Ű |
| V | U | Λ | W | Ŵ | ŵ | W | Ŵ | W | P | X | Y | Ý | Ŷ | Ϋ | Y |
| Ŷ | Y | Ŷ | Ţ | 3 | 7 | Ŷ | Z | ź | ž | ż | Ż | 3 | Z | A | Б |
| В | Γ | ŕ | ľ | Д | E | È | Ë | ж | 3 | И | Й | Й | Й | K | Ŕ |
| Л | М | Н | 0 | П | P | C | T | У | ў | Φ | X | Ч | Ц | Ш | Щ |
| Ų | Я | Ь | ъ | Ы | љ | њ | S | ϵ | Э | 1 | ï | J | ъ | Ю | Ђ |
| ω | ъ | Ѥ | A | H | Ж | ₩ | ž | Ψ | θ | V | " | OY | F | 5 | җ |

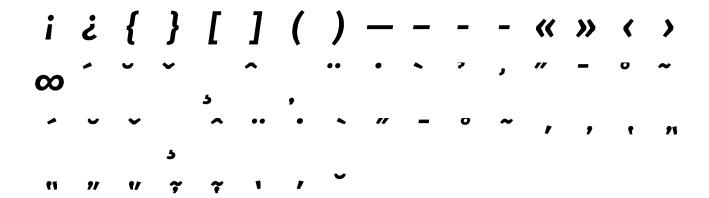
зкккнппфстүүхч н ң **е** ҿ ı ӄ ӆ ӈ ӊ ӌ ӎ ӑ ӓ Ӕ Ӗ ә ӯӱӳӵӷӹӻӽӿ з й ө ё ё **२ЛН СТЕЛХКЯ Q** W K Jh **ЯДКЛНАВ** ΓΔ Ε Z Н P Σ ТҮФХ N Ξ 0 П ΥΟΩΑΕΗΗΤИζ Ε 4 Α Þ A A A A AA Α A A A E E Ε Ε Н Н Н H H H HE Н Н Н Ε E 000000 1 1 1 YY ΩΩΩ YY Ω Ω Ω Ω 0 Ç C

јβωιχ

Contextual Alternates, Stylistic Set 3

er

Case-Sensitive Forms



Discretionary Ligatures



Denominators

$$() = - +$$

Denominators, Fractions

0 1 2 3 4 5 6 7 8 9

Fractions, Numerators

0 1 2 3 4 5 6 7 8 9

Localized Forms

ĆŃÓŚŹ i f ćńóśź fi fl fi fl ćńóśź ′′′

Numerators

$$() = - +$$

Old Style Figures, Proportional Figures

0 1 2 3 4 5 6 7 8 9 # − ¢
$$x \ D\rho$$
€ ₺ ₽ ₹ £ ¥ ≈ ~ ÷ = > ≥ ∞ ∫ < ≤
¬ − × ≠ ∂ %% + ± ∏ √ $\Sigma \ O \ S$ ° †
‡

Old Style Figures, Tabular Figures

0 1 2 3 4 5 6 7 8 9 #
$$- ¢ ¤ $ D\rho$$
 $\notin \& P ₹ £ ¥ ≈ ~ ÷ = > ≥ ∞ ∫ < ≤$
 $\neg - × ≠ ∂ % % + ± ∏ √ ∑ ◊ § ° †$
 $‡$

Stylistic Alternates, Stylistic Set 1

Small Capitals

Stylistic Set 2

БЧЧБ

Tabular Figures

0 1 2 3 4 5 6 7 8 9 # − ¢
$$x \ D\rho$$
€ ₺ ₽ ₹ £ ¥ ≈ ~ ÷ = > ≥ ∞ ∫ < ≤
¬ − × ≠ ∂ %% + ± ∏ √ Σ ◊ § ° †
‡

Slashed Zero

0 0 0 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.



Small Capitals

This feature turns lowercase characters into small capitals. This corresponds to the common SC font layout. It is generally used for display lines set in Large and small caps, such as titles. Forms related to small capitals, such as oldstyle figures, may be included.



Small Capitals From Capitals

This feature turns capital characters into small capitals.



Contextual Alternates

In specified situations, replaces default glyphs with alternate forms which provide better joining behavior.



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/manufacturer judges should be used in normal conditions.



Discretionary Ligatures

Replaces a sequence of glyphs with a single glyph which is preferred for typographic purposes. This feature covers those ligatures which may be used for special effect, at the user's preference.



Old Style Figures

This feature changes selected figures from the default lining style to oldstyle form.



Lining Figures

This feature changes selected figures from oldstyle to the default lining form.



Proportional Figures

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



Tabular Figures

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

7/

Numerators

Replaces selected figures which precede a slash with numerator figures, and replaces the typographic slash with the fraction slash.



Denominators

Replaces selected figures which follow a slash with denominator figures.



Fractions

Replaces figures separated by a slash with 'common' (diagonal) fractions.



Superscript

Replaces lining or oldstyle figures with superior figures (primarily for footnote indication), and may replace lowercase letters with superior letters (primarily for abbreviated French titles).



Subscript

The "subs" feature may replace a default glyph with a subscript glypht.

1st

Ordinals

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

(G}

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.

ŞıŞ

Localized Forms

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



Stylistic Alternates

Many fonts contain alternate glyph designs for a purely esthetic effect; these don't always fit into a clear category like swash or historical. This feature replaces the default forms with the stylistic alternates.



Stylistic Set 1

Glyphs in stylistic sets may be designed to harmonise visually, interract in particular ways, or otherwise work together.



Stylistic Set 2



Stylistic Set 3



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.



Mark Positioning

Positions mark glyphs with respect to base glyphs.



Mark to Mark Positioning

Positions marks with respect to other marks. Required in various non-Latin scripts like Arabic.

Codepages

Mac₀S

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 8859-7 Greek

ISO 8859-9 Latin 5 (Turkish)
ISO 8859-10 Latin 6 (Scandinavian)
ISO 8859-13 Latin 7 (Baltic 2)
ISO 8859-14 Latin 8 (Celtic)
ISO 8859-15 Latin 9
ISO 8859-16 Latin 10

Languages

Information about languages is mainly based on the Unicode Common Locale Data Repository. For details visit the <u>Unicode CLDR Project</u>.

Latin

Afar Ga **Afrikaans** Galician Ganda Akan Albanian German Asu Gusii Azerbaijani Hausa Bambara Hawaiian Basque Hungarian Bemba Icelandic Bena Igbo Bosnian Indonesian Breton Interlingua Catalan Irish Central Morocco Tamazight Italian Chiga Jju Colognian Kabuverdianu Cornish Kabyle Crimean Tatar Kalaallisut Croatian Kaleniin Czech Kamba Danish Kikuyu Dutch Kinyarwanda Embu Koro English Koyra Chiini Esperanto Koyraboro Senni Estonian Kpelle Ewe Kurdish Faroese Langi

Latvian

Lingala

Luo

Luyia

Lithuanian

Low German

Machame Makonde Malagasy Malay Maltese Manx Maori Masai Meru Moldavian Morisyen Nama North Ndebele Norwegian Bokmål Norwegian Nynorsk Nyanja Nyankole Occitan 0 0romo Polish Portuguese Romanian Romansh Rombo Rwa Saho Samburu Sami Northern Sango Sena Serbian Shambala Shona

Soga Somali Sorbian, Lower Sorbian, Upper Sotho, Northern Sotho. Southern South Ndebele Spanish Swahili Swati Swedish Swiss German Tachelhit Taita Taroko Teso Tonga Tsonga Tswana Turkish Tvap Venda Vietnamese Vunjo Welsh Wolof Xhosa Yoruba 7ulu

Slovak

Slovenian

Cyrillic

Frisian West

Filipino

Finnish

French

Friulian

Fulah

Azerbaijani Chechen Uighur Mongolian Bashkir Kazakh Ukrainian Russian Belarusian Kirghiz Serbian Uzbek Bulgarian Macedonian Tajik Buriat Mari Tatar

Carrois Type Design 26

Sidamo

Greek

Greek