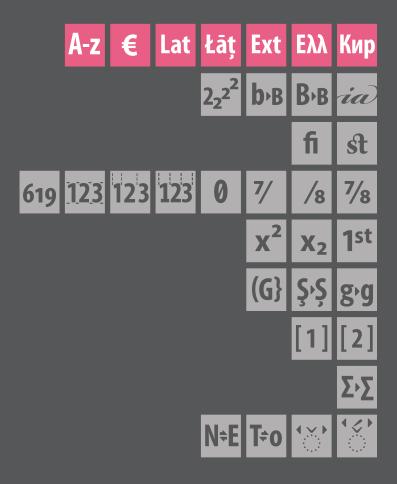
# Fira Sans Bold Italic

Carrois' 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 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|      |      | !    | "    | #    | \$   | %    | &    |      | (    | )    | *    | +    | •    | _    | •    |
| 002F | 0030 | 0031 | 0032 | 0033 | 0034 | 0035 | 0036 | 0037 | 0038 | 0039 | 003A | 003B | 003C | 003D | 003E |
| /    | 0    | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | •    | •    | <    | =    | >    |
| 003F | 0040 | 0041 | 0042 | 0043 | 0044 | 0045 | 0046 | 0047 | 0048 | 0049 | 004A | 004B | 004C | 004D | 004E |
| ?    | @    | A    | B    | C    | D    | E    | F    | G    | Н    | 1    | J    | K    | L    | M    | N    |
| 004F | 0050 | 0051 | 0052 | 0053 | 0054 | 0055 | 0056 | 0057 | 0058 | 0059 | 005A | 005B | 005C | 005D | 005E |
| 0    | P    | Q    | R    | S    | T    | U    | V    | W    | X    | Y    | Z    |      | 1    | ]    | Λ    |
| 005F | 0060 | 0061 | 0062 | 0063 | 0064 | 0065 | 0066 | 0067 | 0068 | 0069 | 006A | 006B | 006C | 006D | 006E |
| _    |      | a    | b    | C    | d    | e    | f    | g    | h    | Ĭ    | j    | k    | l    | m    | n    |
| 006F | 0070 | 0071 | 0072 | 0073 | 0074 | 0075 | 0076 | 0077 | 0078 | 0079 | 007A | 007B | 007C | 007D | 007E |
| 0    | p    | q    | r    | S    | t    | u    | V    | W    | X    | У    | Z    | {    |      | }    | ~    |

# 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    | £    | ¤    | ¥    | I    | §        | ••               | <b>©</b> | <u>a</u> | <b>~</b>        | 7    | _    | ®    | -    |
| 00B0 | 00B1     | 00B2 | 00B3 | 00B4 | 00B5 | 00B6 | 00B7     | 00B8             | 00B9     | 00BA     | 00BB            | 00BC | 00BD | 00BE | 00BF |
| 0    | <b>±</b> | 2    | 3    | -    | μ    | П    | •        |                  | 1        | 0        | <b>&gt;&gt;</b> | 1/4  | 1/2  | 3/4  | •    |
| 00C0 | 00C1     | 00C2 | 00C3 | 00C4 | 00C5 | 00C6 | 00C7     | <b>5</b><br>00C8 | 00C9     | 00CA     | 00CB            | 00CC | 00CD | 00CE | 00CF |
| À    | Á        | Â    | Ã    | Ä    | Å    | Æ    | Ç        | È                | É        | Ê        | Ë               | Ì    | ĺ    | Î    | ï    |
| 00D0 | 00D1     | 00D2 | 00D3 | 00D4 | 00D5 | 00D6 | <b>3</b> | 00D8             | 00D9     | 00DA     | 00DB            | 00DC | 00DD | 00DE | 00DF |
| Đ    | ~        | Ò    |      | Ô    |      | Ö    |          |                  | Ù        |          | Û               | Ü    | Ý    | Þ    | ß    |
| D    | N        | U    | U    | U    | U    | U    | ×        | Ψ                | U        | U        | U               | U    | ľ    | P    | J    |
| 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    | ĺ    | Î    | Ï    |
| 00F0 | 00F1     | 00F2 | 00F3 | 00F4 | 00F5 | 00F6 | 00F7     | 00F8             | 00F9     | 00FA     | 00FB            | 00FC | 00FD | 00FE | 00FF |
| ð    | ñ        | ò    | Ó    | ô    | õ    | Ö    | ÷        | Ø                | ù        | ú        | û               | ü    | Ý    | b    | 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        | Å                | ă             | Ą    | ą    | Č    | Ć    | Ĉ    | 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    | Ė    | 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             |
| Ġ    | ġ        | G                | ģ             | Ĥ    | ĥ    | 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             |
| i    | ı        | IJ               | 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<br>014B | 9<br>014C | 014D | 014E | 014F             |
| ŀ    | Ł        | ł                | Ń             | ń    | N    | n    | Ň    | ň    | 'n   | N    | n         | Ō         | ō    | Ŏ    | ŏ                |
| 0150 | 0151     | 0152             | 0153          | 0154 | 0155 | 0156 | 0157 | 0158 | 0159 | 015A | 015B      | 015C      | 015D | 015E | 015F             |
| Ő    | ő        | Œ                | œ             | Ŕ    | ŕ    | R    | r    | Ř    | ř    | Ś    | Ś         | Ŝ         | ŝ    | Ş    | Ş                |
| 0160 | 0161     | 0162             | 0163          | 0164 | 0165 | 0166 | 0167 | 0168 | 0169 | 016A | 016B      | 016C      | 016D | 016E | <b>3</b><br>016F |
| Š    | š        | T                | t             | Ť    | ť    | Ŧ    | ŧ    | Ũ    | ũ    | Ū    | ū         | Ŭ         | й    | Ů    | ů                |
| 0170 | 0171     | <b>3</b><br>0172 | <b>3</b> 0173 | 0174 | 0175 | 0176 | 0177 | 0178 | 0179 | 017A | 017B      | 017C      | 017D | 017E |                  |
| ű    | ű        | U                | Ш             | Ŵ    | ŵ    | Ŷ    | ŷ    | Ÿ    | Ź    | ź    | Ż         | ż         | ž    | ž    |                  |
|      | <b>V</b> | 7                | 7             |      |      | -    | J    | -    | _    | _    | _         | _         | _    | _    |                  |

## Latin Extended-B

Block from 0180 to 024F

| 0180 | 0181                       | 0182 | 0183 | 0184 | 0185         | 0186     | 0187 | 0188 | 0189 | 018A | 018B | 018C | 018D | 018E | 018F |
|------|----------------------------|------|------|------|--------------|----------|------|------|------|------|------|------|------|------|------|
| b    | $\mathcal{B}$              | Б    | Б    | Ь    | ъ            | <b>)</b> | C    | 5    | Đ    | D    | В    | đ    | Q    | 3    | ð    |
| 0190 | 0191                       | 0192 | 0193 | 0194 | 0195         | 0196     | 0197 | 0198 | 0199 | 019A | 019B | 019C | 019D | 019E | 019F |
| 3    | F                          | f    | G    | V    | h            | L        | ł    | K    | R    | ŧ    | Ă    | Ш    | N    | η    | θ    |
| 01A0 | 01A1                       | 01A2 | 01A3 | 01A4 | 01A5         | 01A6     | 01A7 | 01A8 | 01A9 | 01AA | 01AB | 01AC | 01AD | 01AE | 01AF |
| Ø    | O                          | O    | O    | P    | þ            | R        | S    | S    | Σ    | 9    | ţ    | T    | f    | T    | ľ    |
| 01B0 | 01B1                       | 01B2 | 01B3 | 01B4 | 01B5         | 01B6     | 01B7 | 01B8 | 01B9 | 01BA | 01BB | 01BC | 01BD | 01BE | 01BF |
| u    | $\boldsymbol{\mathcal{O}}$ | U    | Y    | V    | 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 |
| 1    | II                         | ŧ    | !    | DŽ   | Dž           | dž       | LJ   | Lj   | lj   | NJ   | Nj   | nj   | Ă    | ă    | Ĭ    |
| 01D0 | 01D1                       | 01D2 | 01D3 | 01D4 | 01 <u>D5</u> | 01D6     | 01D7 | 01D8 | 01D9 | 01DA | 01DB | 01DC | 01DD | 01DE | 01DF |
| Ĭ    | Ŏ                          | ŏ    | Ŭ    | ŭ    | Ü            | ü        | Ű    | ű    | Ŭ    | ŭ    | Ü    | ù    | Э    | Ä    | ā    |

| 01E0 | 01E1 | 01E2 | 01E3 | 01E4 | 01E5 | 01E6 | 01E7 | 01E8 | 01E9 | 01EA | 01EB | 01EC | 01ED | 01EE     | 01EF |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|
| Å    | ā    | Æ    | æ    | G    | q    | Ğ    | ğ    | K    | Ř    | Q    | Q    | Ō    | ē    | ž        | ž    |
| 01F0 | 01F1 | 01F2 | 01F3 | 01F4 | 01F5 | 01F6 | 01F7 | 01F8 | 01F9 | 01FA | 01FB | 01FC | 01FD | 01FE     | 01FF |
| Ĭ    | DZ   | Dz   | dz   | Ğ    | ģ    | Ю    | P    | Ň    | ñ    | Å    | å    | Æ    | æ    | Ø        | Ø    |
| 0200 | 0201 | 0202 | 0203 | 0204 | 0205 | 0206 | 0207 | 0208 | 0209 | 020A | 020B | 020C | 020D | 020E     | 020F |
| A    | ä    | Â    | â    | Ë    | ë    | Ê    | ê    | Ï    | ï    | Î    | î    | 0    | ő    | Ô        | ô    |
| 0210 | 0211 | 0212 | 0213 | 0214 | 0215 | 0216 | 0217 | 0218 | 0219 | 021A | 021B | 021C | 021D | 021E     | 021F |
| Ř    | Ÿ    | R    | Ŷ    | Ü    | ű    | Ü    | û    | Ş    | Ş    | Ţ    | ţ    | 3    | 3    | Н        | ň    |
| 0220 | 0221 | 0222 | 0223 | 0224 | 0225 | 0226 | 0227 | 0228 | 0229 | 022A | 022B | 022C | 022D | 022E     | 022F |
| η    | d    | 8    | 8    | Z    | 3    | Å    | ä    | Ę    | ę    | Ö    | ö    | Ō    | Õ    | Ö        | Ö    |
| 0230 | 0231 | 0232 | 0233 | 0234 | 0235 | 0236 | 0237 | 0238 | 0239 | 023A | 023B | 023C | 023D | 023E     | 023F |
| Ō    | ō    | Ÿ    | y    | b    | n    | t    | J    | cb   | ф    | A    | Ø    | Ø    | Ł    | <b>T</b> | Ş    |
| 0240 | 0241 | 0242 | 0243 | 0244 | 0245 | 0246 | 0247 | 0248 | 0249 | 024A | 024B | 024C | 024D | 024E     | 024F |
| Z    | 7    | 7    | ₿    | Ħ    | Λ    | Æ    | e    | f    | j    | q    | q    | R    | ť    | Y        | ¥    |

## **IPA Extensions**

Block from 0250 to 02AF

| 0250 | 0251     | 0252 | 0253 | 0254     | 0255 | 0256         | 0257 | 0258 | 0259 | 025A | 025B | 025C | 025D | 025E | 025F |
|------|----------|------|------|----------|------|--------------|------|------|------|------|------|------|------|------|------|
| g    | a        | Ø    | Б    | <b>)</b> | 6    | d            | ď    | 9    | 9    | ð    | ε    | 3    | 3    | ß    | ŧ    |
| 0260 | 0261     | 0262 | 0263 | 0264     | 0265 | 0266         | 0267 | 0268 | 0269 | 026A | 026B | 026C | 026D | 026E | 026F |
| ď    | q        | G    | X    | Y        | Ч    | h            | Ŋ    | į    | l    | I    | l    | 4    | 1    | łz   | ш    |
| 0270 | 0271     | 0272 | 0273 | 0274     | 0275 | 0276         | 0277 | 0278 | 0279 | 027A | 027B | 027C | 027D | 027E | 027F |
| Щ    | m        | n    | ŋ    | N        | θ    | Œ            | ω    | φ    | J    | J    | 1    | r    | r    | ſ    | 7    |
| 0280 | 0281     | 0282 | 0283 | 0284     | 0285 | 0286         | 0287 | 0288 | 0289 | 028A | 028B | 028C | 028D | 028E | 028F |
| R    | R        | Ş    | ſ    | Ţ        | •    | $\mathbf{I}$ | 1    | t    | Ħ    | IJ   | U    | Λ    | M    | Λ    | Y    |
| 0290 | 0291     | 0292 | 0293 | 0294     | 0295 | 0296         | 0297 | 0298 | 0299 | 029A | 029B | 029C | 029D | 029E | 029F |
| Z    | <b>Z</b> | 3    | 3    | 7        | 5    | 5            | (    | 0    | В    | ອ    | ď    | Н    | i    | K    | L    |
| 02A0 | 02A1     | 02A2 | 02A3 | 02A4     | 02A5 | 02A6         | 02A7 | 02A8 | 02A9 | 02AA | 02AB | 02AC | 02AD | 02AE | 02AF |
| ď    | 2        | Ç    | dz   | dz       | dz,  | ts           | tſ   | t6   | fŋ   | b    | lz   | W    | u    | น    | น    |
| -    |          |      |      | -        | •    |              | •    |      | •    |      |      |      |      |      |      |

# **Spacing Modifier Letters**

| Block from | 02R0 to | 02FF |
|------------|---------|------|
| DIOCK HOIH | 0200 10 | 0211 |

| 02B0 | 02B1 | 02B2     | 02B4 | 02B7 | 02B8 | 02BB | 02BC | 02BF | 02C0 | 02C6 | 02C7 | 02C8 | 02CA | 02CB | 02CC |
|------|------|----------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| h    | ħ    | j        | ı    | W    | y    | 4    | •    | •    | 7    | ^    | ~    | •    | -    | •    |      |
|      |      |          |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 02CE | 02CF | 02D0     | 02D1 | 02D4 | 02D6 | 02D7 | 02D8 | 02D9 | 02DA | 02DB | 02DC | 02DD | 02DE | 02E0 | 02E1 |
|      |      | •        | •    | _    | +    | _    | J    | •    | 0    |      | ~    | "    | ~    | Y    | l    |
| •    | -    | <b>A</b> |      | _    | •    |      |      |      |      | C    |      |      |      |      |      |
| 02E2 | 02E3 | 02E4     | 02E5 | 02E6 | 02E7 | 02E8 | 02E9 | 02EE |      |      |      |      |      |      |      |
| s    | Х    | ۶        | 7    | 4    |      |      |      | "    |      |      |      |      |      |      |      |
| _    |      | -        | - 1  | 1    | 4    | - 4  |      |      |      |      |      |      |      |      |      |

# Combining Diacritical Marks

### Block from 0300 to 036F

|      | X             |               |      |          |      |      |               |      |      |      |      |      |           |             |               |
|------|---------------|---------------|------|----------|------|------|---------------|------|------|------|------|------|-----------|-------------|---------------|
| 0330 | <b>5</b> 033D | <b>C</b> 035C | 0361 | <b>n</b> | w    | •    | ^             | ^    | ~    | -    | _    | *    | ,         | u           |               |
| 032  | 6 0327        | 0328          | 0329 | 032A     | 032B | 032C | <b>(</b> 032D | 032F | 0330 | 0331 | 0332 | 0334 | •<br>0339 | ● ●<br>033A | <b>O</b> 033B |
| 031  | 4 0316        | 0317          | 0318 | 0319     | 031A | 031B | 031C          | 031D | 031E | 031F | 0320 | 0321 | 0323      | 0324        | 0325          |
| 030  | 0 0301        | 0302          | 0303 | 0304     | 0306 | 0307 | 0308          | 0309 | 030A | 030B | 030C | 030D | 030F      | 0311        | 0313          |

# **Greek and Coptic**

### Block from 0370 to 03FF

| 0384 | 0385             | 0386 | 0388 | 0389 | 038A | 038C      | 038E | 038F | 0390 | 0391 | 0392 | 0393 | 0394 | 0395 | 0396 |
|------|------------------|------|------|------|------|-----------|------|------|------|------|------|------|------|------|------|
| ,    | •/•              | Ά    | Έ    | Ή    | 7    | <b>'0</b> | 'Y   | Ώ    | ί    | A    | В    | Г    | Δ    | Ε    | Z    |
| 0397 | 0398             | 0399 | 039A | 039B | 039C | 039D      | 039E | 039F | 03A0 | 03A1 | 03A3 | 03A4 | 03A5 | 03A6 | 03A7 |
| Н    | Θ                | I    | K    | Λ    | M    | N         | Ξ    | 0    | П    | P    | 7    | T    | Y    | Φ    | X    |
| 03A8 | 03A9             | 03AA | 03AB | 03AC | 03AD | 03AE      | 03AF | 03B0 | 03B1 | 03B2 | 03B3 | 03B4 | 03B5 | 03B6 | 03B7 |
| Ψ    | Ω                | Ϊ    | Ÿ    | ά    | έ    | ń         | ί    | ï    | α    | β    | y    | δ    | 3    | 7    | n    |
| 03B8 | 03B9             | 03BA | 03BB | 03BC | 03BD | 03BE      | 03BF | 03C0 | 03C1 | 03C2 | 03C3 | 03C4 | 03C5 | 03C6 | 03C7 |
| θ    | ı                | K    | λ    | μ    | V    | ξ         | 0    | П    | ρ    | C    | σ    | T    | /1   | φ    | v    |
| 03C8 | 03C9             | 03CA | 03CB | 03CC | 03CD | 03CE      |      |      | P    | >    | U    | •    |      | Ψ    | Λ    |
| ***  | / <sub>-</sub> 1 | ï    | Ü    | á    | ύ    | /_1       |      |      |      |      |      |      |      |      |      |
| Ψ    | ω                | ŧ    | U    | 0    | U    | ω         |      |      |      |      |      |      |      |      |      |

# Cyrillic

| Block from | 0400 | to 0 | 4FF |
|------------|------|------|-----|
|------------|------|------|-----|

| Ţ    | Ş    | Ӹ    | Ӹ    |                         |      |      |      |      |      |          |          |      |                  |      |      |
|------|------|------|------|-------------------------|------|------|------|------|------|----------|----------|------|------------------|------|------|
| 04F6 | 04F7 | 04F8 | 04F9 |                         | •    |      | •    |      | y    |          | y        |      | y                | -    | •    |
| Ö    | ö    | θ    | θ    | Ä                       | ë    | Ä    | ÿ    | ӯ    | Ī    | ÿ        | ÿ        | ű    | ű                | Ÿ    | ÿ    |
| 04E6 | 04E7 | 04E8 | 04E9 | 04EA                    | 04EB | 04EC | 04ED | 04EE | 04EF | 04F0     | 04F1     | 04F2 | 04F3             | 04F4 | 04F5 |
| Æ    | æ    | Ĕ    | ĕ    | Э                       | а    | ä    | ä    | Ж    | ж    | <b>3</b> | <b>3</b> | Й    | ū                | Й    | ü    |
| 04D4 | 04D5 | 04D6 | 04D7 | 04D8                    | 04D9 | 04DA | 04DB | 04DC | 04DD | 04DE     | 04DF     | 04E2 | 04E3             | 04E4 | 04E5 |
| Ч    | ч    | Ч    | Ч    | h                       | h    | 1    | Ж    | ӂ    | Ч    | y        | l        | Ă    | ă                | Ä    | ä    |
| 04B6 | 04B7 | 04B8 | 04B9 | 04BA                    | 04BB | 04C0 | 04C1 | 04C2 | 04CB | 04CC     | 04CF     | 04D0 | 04D1             | 04D2 | 04D3 |
| K    | K    | К    | K    | Ц                       | H    | Ç    | Ç    | Ţ    | m    | Y        | V        | ¥    | ¥                | X    | X,   |
| 049C | 049D | 04A0 | 04A1 | 04A2                    | 04A3 | 04AA | 04AB | 04AC | 04AD | 04AE     | 04AF     | 04B0 | <b>3</b><br>04B1 | 04B2 | 04B3 |
| Ъ    | Б    | θ    | θ    | V                       | V    | ľ    | 7    | F    | ટ    | Ж        | Ж        | 3    | 3                | Қ    | K    |
| 0462 | 0463 | 0472 | 0473 | 0474                    | 0475 | 0490 | 0491 | 0492 | 0493 | 0496     | 0497     | 0498 | 0499             | 049A | 049B |
| è    | ë    | ħ    | Ś    | $\epsilon$              | S    | i    | ï    | j    | љ    | њ        | ħ        | Ŕ    | ù                | ў    | Ų    |
| 0450 | 0451 | 0452 | 0453 | 0454                    | 0455 | 0456 | 0457 | 0458 | 0459 | 045A     | 045B     | 045C | 045D             | 045E | 045F |
| p    | C    | m    | У    | ф                       | X    | Ц    | Ч    | ш    | щ    | ъ        | Ы        | Ь    | Э                | Ю    | Я    |
| 0440 | 0441 | 0442 | 0443 | 0444                    | 0445 | 0446 | 0447 | 0448 | 0449 | 044A     | 044B     | 044C | 044D             | 044E | 044F |
| a    | б    | в    | S    | 9                       | e    | Ж    | 3    | u    | ŭ    | K        | Л        | M    | Н                | 0    | П    |
| 0430 | 0431 | 0432 | 0433 | 0434                    | 0435 | 0436 | 0437 | 0438 | 0439 | 043A     | 043B     | 043C | 043D             | 043E | 043F |
| P    | C    | T    | У    | Φ                       | X    | Ц    | Ч    | Ш    | Щ    | Ъ        | Ы        | Ь    | Э                | Ю    | Я    |
| 0420 | 0421 | 0422 | 0423 | 0424                    | 0425 | 0426 | 0427 | 0428 | 0429 | 042A     | 042B     | 042C | 042D             | 042E | 042F |
| A    | Б    | В    | Γ    | Д                       | Ε    | Ж    | 3    | И    | Й    | K        | Л        | M    | Н                | 0    | П    |
| 0410 | 0411 | 0412 | 0413 | 0414                    | 0415 | 0416 | 0417 | 0418 | 0419 | 041A     | 041B     | 041C | 041D             | 041E | 041F |
| È    | Ë    | Ђ    | ŕ    | $\boldsymbol{\epsilon}$ | S    | I    | Ϊ    | 1    | Љ    | Њ        | ħ        | Ŕ    | Й                | ў    | Ц    |
| 0400 | 0401 | 0402 | 0403 | 0404                    | 0405 | 0406 | 0407 | 0408 | 0409 | 040A     | 040B     | 040C | 040D             | 040E | 040F |

# Cyrillic Supplement

Block from 0500 to 052F

051C 051D 0524 0525 0526 0527
W W П П Һ

### **Phonetic Extensions**

#### Block from 1D00 to 1D7F

| ə    | Ъ    | đ    | f    | m    | Ħ    | p    | r    | ſ    | S    | t    | Z    |
|------|------|------|------|------|------|------|------|------|------|------|------|
| 1D4A | 1D6C | 1D6D | 1D6E | 1D6F | 1D70 | 1D71 | 1D72 | 1D73 | 1D74 | 1D75 | 1D76 |

# Phonetic Extensions Supplement

### Block from 1D80 to 1DBF

1D91 1DBF **θ** 

# Combining Diacritical Marks Supplement

### Block from 1DC0 to 1DFF

1DC4 1DC5 1DC6 1DC7 1DC8 1DC

### Latin Extended Additional

### Block from 1E00 to 1EFF

| 1E04 | 1E05 | 1E0C | 1E0D | 1E0E | 1E0F      | 1E12 | 1E13 | 1E24 | 1E25 | 1E2E | 1E2F | 1E36 | 1E37 | 1E3C     | 1E3D |
|------|------|------|------|------|-----------|------|------|------|------|------|------|------|------|----------|------|
| В    | b    | D    | d    | D    | d         | D    | d    | Н    | h    | Ï    | í    | L    | l    | L        | l    |
| 1E3E | 1E3F | 1E44 | 1E45 | 1E46 | 1E47      | 1E4A | 1E4B | 1E4C | 1E4D | 1E50 | 1E51 | 1E52 | 1E53 | 1E54     | 1E55 |
| M    | m    | Ň    | 'n   | N    | n         | N    | n    | Ő    | ố    | Ō    | õ    | Ó    | Ó    | Ŕ        | Ŕ    |
| 1E5A | 1E5B | 1E62 | 1E63 | 1E6C | 1E6D      | 1E6E | 1E6F | 1E70 | 1E71 | 1E78 | 1E79 | 1E80 | 1E81 | 1E82     | 1E83 |
| R    | r    | S    | Ş    | T    | t         | T    | t    | T    | t    | Ũ    | ű    | Ŵ    | ŵ    | Ŵ        | Ŵ    |
| 1E84 | 1E85 | 1E92 | 1E93 | 1E9E | 1EA0      | 1EA1 | 1EA2 | 1EA3 | 1EA4 | 1EA5 | 1EA6 | 1EA7 | 1EA8 | 1EA9     | 1EAA |
| W    | W    | 7    | Z    | ß    | A         | а    | Å    | å    | Â    | ấ    | À    | à    | Â    | â        | Ã    |
| 1EAB | 1EAC | 1EAD | 1EAE | 1EAF | •<br>1EB0 | 1EB1 | 1EB2 | 1EB3 | 1EB4 | 1EB5 | 1EB6 | 1EB7 | 1EB8 | 1EB9     | 1EBA |
| ã    | Â    | â    | Á    | á    | À         | à    | Å    | å    | Ă    | ã    | Ă    | ă    | Ε    | e        | Ė    |
| 1EBB | 1EBC | 1EBD | 1EBE | 1EBF | 1EC0      | 1EC1 | 1EC2 | 1EC3 | 1EC4 | 1EC5 | 1EC6 | 1EC7 | 1EC8 | 1EC9     | 1ECA |
| ė    | Ê    | ẽ    | Ê    | ế    | È         | è    | Ê    | ê    | Ê    | ê    | Ê    | ê    | ì    | ì        | 1    |
| 1ECB | 1ECC | 1ECD | 1ECE | 1ECF | 1ED0      | 1ED1 | 1ED2 | 1ED3 | 1ED4 | 1ED5 | 1ED6 | 1ED7 | 1ED8 | 1ED9     | 1EDA |
| •    | 0    | 0    | Ò    | ỏ    | ố         | ố    | Ô    | ô    | Ô    | ô    | Õ    | õ    | Ô    | ô        | Ŕ    |
| 4EDD | •    | •    |      |      |           |      |      |      |      |      |      |      | •    | •        | 4554 |
| 1EDB | 1EDC | 1EDD | ď    | 1EDF | 1EE0      | 1EE1 | 1EE2 | 1EE3 | 1EE4 | 1EE5 | 1EE6 | 1EE7 | 1EE8 | 1EE9     | 1EEA |
| O    | Ò    | Ò    | U    | ď    | σ         | õ    | Ò    | Ò    | Ų    | Ų    | U    | u    | U    | <b>u</b> | U    |

| ù    | Ů    | ử    | Ũ    | ữ    | Ų    | Ų,   | Ŷ    | ŷ    | Y    | <b>y</b> | Ŷ    | ỷ    | Ŷ    | ỹ    |
|------|------|------|------|------|------|------|------|------|------|----------|------|------|------|------|
| 1EEB | 1EEC | 1EED | 1EEE | 1EEF | 1EF0 | 1EF1 | 1EF2 | 1EF3 | 1EF4 | 1EF5     | 1EF6 | 1EF7 | 1EF8 | 1EF9 |

### **Greek Extended**

Block from 1F00 to 1FFF



### **General Punctuation**

Block from 2000 to 206F

| "    |      |      | -    | _    |        | 0/   | •    | •    |      | /    |      |      |      |      |      |
|------|------|------|------|------|--------|------|------|------|------|------|------|------|------|------|------|
| 201D | 201E | 2020 | 2021 | 2022 | 2026   | 2030 | 2039 | 203A | 203F | 2044 |      |      |      |      |      |
|      |      |      |      | Ť    | $\int$ |      | _    | _    | _    | _    | II   | 6    | ,    | ,    | 44   |
| 2007 | 2008 | 200B | 200C | 200D | 200E   | 200F | 2012 | 2013 | 2014 | 2015 | 2016 | 2018 | 2019 | 201A | 201C |

# Superscripts and Subscripts

Block from 2070 to 209F

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

## **Currency Symbols**

Block from 20A0 to 20CF

20AC 20B9 20BA 20BI € ₹ Ł ₽

### Letterlike Symbols

Block from 2100 to 214F

a NO TM O

### **Number Forms**

Block from 2150 to 218F

2153 2154 2155 2156 2157 2158 2159 215A 215B 215C 215D 215E 215F

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

2326 2327 2328 232B 23CE

## Geometric Shapes

Block from 25A0 to 25FF

25AF 25C/

## **Dingbats**

Block from 2700 to 27BF

27A1



## Miscellaneous Symbols and Arrows

Block from 2B00 to 2BFF



### Latin Extended-C

Block from 2C60 to 2C7F



### Latin Extended-D

Block from A720 to A7FF



## unassigned Block

Block from AB30 to ABBF

AB53



Block from E000 to F8FF



# **Alphabetic Presentation Forms**

Block from FB00 to FB4F

FB01 FB02



### 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.

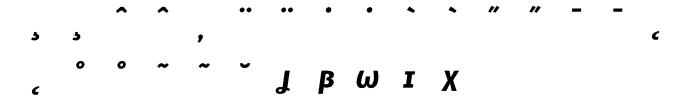
### Small Capitals From Capitals



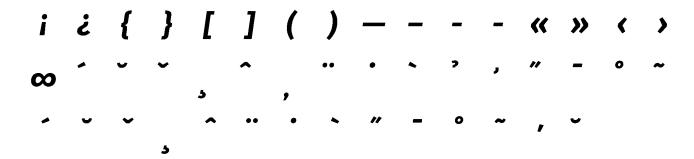
Small Capitals From Capitals, Small Capitals



| oj | ô  | ō  | ố | Ò | Q          | ē | <b>၁</b>   | Ø | Ó        | õ | ố | Õ | g | Œ | P |
|----|----|----|---|---|------------|---|------------|---|----------|---|---|---|---|---|---|
| Ŕ  | P  | Þ  | Q | q | R          | Ŕ | Ř          | Ŗ | Ř        | Ŗ | Ŕ | R | S | Ś | š |
| ş  | ŝ  | Ş  | ș | ß | ə          | T | Ŧ          | Ť | Ţ        | Ţ | Ţ | 7 | Ţ | τ | Ţ |
| 5  | ь  | S  | τ | U | Ú          | Ħ | ŭ          | ŭ | Û        | Ű | Ü | ΰ | Ŭ | ΰ | Ü |
| Ų  | Ù  | Ů  | ľ | Ú | <b>i</b> , | Ù | ử          | Ũ | Ű        | Û | Ū | Ų | ů | Ũ | ΰ |
| V  | U  | Λ  | W | Ŵ | ŵ          | W | ŵ          | W | P        | X | Y | Ý | Ŷ | Ÿ | Y |
| Ŷ  | Y  | Ŷ  | Ţ | 3 | Y          | Ŷ | Z          | ź | ž        | ż | Ż | 3 | Z | A | Б |
| В  | Γ  | ŕ  | ľ | Д | E          | È | Ë          | ж | 3        | И | Й | Й | К | Ŕ | Л |
| M  | н  | 0  | П | P | C          | T | У          | ў | Φ        | X | ч | Ц | Ш | Щ | Ų |
| Я  | Ь  | ъ  | Ы | љ | њ          | S | $\epsilon$ | Э | 1        | ï | J | ъ | Ю | Ђ | ъ |
| θ  | V  | F  | Ж | 3 | қ          | K | к          | ң | Д        | ç | Ţ | Y | ¥ | X | ч |
| 4  | h  | h, | 1 | y | Ă          | Ä | Æ          | Ĕ | ə        | ä | Й | θ | ë | ÿ | ÿ |
| ÿ  | ű  | ÿ  | ŗ | Ӹ | W          | A | В          | Γ | Δ        | E | Z | Н | Θ | 1 | K |
| Λ  | М  | N  | Ξ | 0 | П          | P | Σ          | T | Y        | Φ | X | Ψ | Ω | 1 | ï |
| V  | •• | _  | _ | _ | _          |   | <b>á</b>   | × | <u> </u> | È | ŕ | ù | ú | • | í |
| •  | Ÿ  | 0  | Ω | A | E          | Н | A          | A | A        | E | E | П | П | ı | • |



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** 

ĆŃÓŚŹifćńóśźfiflfifl

### **Numerators**

# Old Style Figures, Proportional Figures

0 1 2 3 4 5 6 7 8 9 # - ¢ 
$$x \in \mathbb{R}$$
 
£  $\mathbb{P}$  
₹ £  $\mathbb{Y}$  : · ÷ = > ≥  $\infty$   $\mathbb{S}$  < ≤ ¬
- × ≠  $\mathfrak{d}$  %% + ±  $\mathbb{T}$   $\sqrt{\Sigma}$   $\mathfrak{d}$  § ° † ‡

### Old Style Figures, Tabular Figures

0 1 2 3 4 5 6 7 8 9 # - ¢ 
$$x \in \mathbb{R}$$
 $\not \in \mathbb{R}$ 
 $\not \in$ 

### Stylistic Alternates, Stylistic Set 1

## **Small Capitals**

## Stylistic Set 2

БЧЧБ

## **Tabular Figures**

0 1 2 3 4 5 6 7 8 9 # - ¢  $x \in \mathbb{R}$ £  $P \notin E : \cdot \div = > \ge \infty \int < \le \neg$ -  $\times \ne \partial \% + \pm \prod \sqrt{\Sigma} \otimes S \circ + \pm$ 

### Slashed Zero

0 0 0 0

### **Other**



# OpenType Layout Features

For details about OpenType Layout Features see the <a href="OpenType Layout tag registry">OpenType Layout tag registry</a>.

### 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



#### 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

### Mac<sub>0</sub>S

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

# Languages

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

Machame

### 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

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

Slovenian 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

## Cyrillic

Frisian West

**Filipino** 

**Finnish** 

French

Friulian

Fulah

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

Carrois Type Design 24

Shona

Sidamo

# Greek

Greek