C0 Controls and Basic Latin
Range: 0000–007F

This file contains an excerpt from the character code tables and list of character names for
The Unicode Standard, Version 7.0

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See http://www.unicode.org/errata/ for an up-to-date list of errata.

See http://www.unicode.org/charts/ for access to a complete list of the latest character code charts.
See http://www.unicode.org/charts/PDF/Unicode-7.0/ for charts showing only the characters added in Unicode 7.0.
See http://www.unicode.org/Public/7.0.0/charts/ for a complete archived file of character code charts for Unicode 7.0.

Disclaimer
These charts are provided as the online reference to the character contents of the Unicode Standard, Version 7.0 but do
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understanding of the use of the characters contained in this file, please consult the appropriate sections of The Unicode
Standard, Version 7.0, online at http://www.unicode.org/versions/Unicode7.0.0/, as well as Unicode Standard Annexes #9,
#11, #14, #15, #24, #29, #31, #34, #38, #41, #42, #44, and #45, the other Unicode Technical Reports and Standards, and the
Unicode Character Database, which are available online.


A thorough understanding of the information contained in these additional sources is required for a successful
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### C0 controls

Alias names are those for ISO/IEC 6429:1992. Commonly used alternative aliases are also shown.

<table>
<thead>
<tr>
<th>Code</th>
<th>Alias</th>
</tr>
</thead>
<tbody>
<tr>
<td>0000</td>
<td>&lt;control&gt;</td>
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<td>0001</td>
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<tr>
<td>001A</td>
<td>&lt;control&gt;</td>
</tr>
</tbody>
</table>

### ASCII punctuation and symbols

Based on ISO/IEC 646.

<table>
<thead>
<tr>
<th>Code</th>
<th>Alias</th>
</tr>
</thead>
<tbody>
<tr>
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<tr>
<td>0021</td>
<td>EXCLAMATION MARK</td>
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<tr>
<td>0022</td>
<td>QUOTATION MARK</td>
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<tr>
<td>0023</td>
<td>NUMBER SIGN</td>
</tr>
<tr>
<td>0024</td>
<td>DOLLAR SIGN</td>
</tr>
</tbody>
</table>

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0025 PERCENT SIGN
→ 066A ‰ arabic percent sign
→ 2030 % per mille sign
→ 2031 ﹪ per ten thousand sign
→ 2052 ⁄ commercial minus sign

0026 & AMPERSAND
→ 204A ◢ trionian sign et
→ 214B θ turned ampersand
→ 1F674 & heavy ampersand ornament

0027 ’ APOSTROPHE
= apostrophe-quote (1.0)
= APL quote
• neutral (vertical) glyph with mixed usage
• 2019 ‘ is preferred for apostrophe
• preferred characters in English for paired quotation marks are 2018 ‘ & 2019 ‘
• 05F3 ‘ is preferred for gersh when writing Hebrew
→ 0289 ′ modifier letter prime
→ 028C” modifier letter apostrophe
→ 02CB’ modifier letter vertical line
→ 0301 † combining acute accent
→ 05F3 ′ hebrew punctuation gersh
to 2032 ′ prime
→ 27C1 ′ latin small letter saltillo

0028 ( LEFT PARENTHESIS
= opening parenthesis (1.0)

0029 ) RIGHT PARENTHESIS
= closing parenthesis (1.0)
• see discussion on semantics of paired bracketing characters

002A * ASTERISK
= star (on phone keypads)
→ 066D * arabic five pointed star
→ 204E * low asterisk
→ 2217 * asterisk operator
→ 269B * text style ast
to 2371 * heavy asterisk

002B + PLUS SIGN
= 2795 + heavy plus sign

002C , COMMA
= decimal separator
→ 060C , arabic comma
→ 201A , single low-9 quotation mark
→ 2E41 , reversed comma
→ 3001 , ideographic comma

002D - HYPHEN-MINUS
= hyphen or minus sign
• used for either hyphen or minus sign
→ 2010 − hyphen
→ 2011 – non-breaking hyphen
→ 2012 — figure dash
→ 2013 − en dash
→ 2043 • hyphen bullet
→ 2212 — minus sign
→ 10191 – roman uncia sign

002E . FULL STOP
= period, dot, decimal point
• may be rendered as a raised decimal point in old style numbers
→ 06D4 . arabic full stop
→ 2E3C . stenographic full stop
→ 3002 . ideographic full stop

002F / SOLIDUS
= slash, virgule
→ 01C0 / latin letter dental click
→ 0338 / combining long solidus overlay
→ 2044/ fraction slash
→ 2215 / division slash

ASCII digits
0030 0 DIGIT ZERO
→ 0030 FEOE text style
→ 0030 FEOF emoji style

0031 1 DIGIT ONE
→ 0031 FEOE text style
→ 0031 FEOF emoji style

0032 2 DIGIT TWO
→ 0032 FEOE text style
→ 0032 FEOF emoji style

0033 3 DIGIT THREE
→ 0033 FEOE text style
→ 0033 FEOF emoji style

0034 4 DIGIT FOUR
→ 0034 FEOE text style
→ 0034 FEOF emoji style

0035 5 DIGIT FIVE
→ 0035 FEOE text style
→ 0035 FEOF emoji style

0036 6 DIGIT SIX
→ 0036 FEOE text style
→ 0036 FEOF emoji style

0037 7 DIGIT SEVEN
→ 0037 FEOE text style
→ 0037 FEOF emoji style

0038 8 DIGIT EIGHT
→ 0038 FEOE text style
→ 0038 FEOF emoji style

0039 9 DIGIT NINE
→ 0039 FEOE text style
→ 0039 FEOF emoji style

ASCII punctuation and symbols
003A : COLON
• also used to denote division or scale; for that mathematical use 2236 : is preferred
→ 0589 : armenian full stop
→ 05C3 : hebrew punctuation sof pasuq
→ 2236 : ratio
→ 2731 : modifier letter colon

003B ; SEMICOLON
• this, and not 037E ; , is the preferred character for ‘Greek question mark’
→ 037E ; greek question mark
→ 061B ; arabic semicolon
→ 204F ; reversed semicolon

003C < LESS-THAN SIGN
→ 2039 < single left-pointing angle quotation mark
→ 2329 ( left-pointing angle bracket
→ 27EB ( mathematical left angle bracket
→ 3008 ( left angle bracket
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**003D C0 Controls and Basic Latin 0068**

003D = EQUALS SIGN
- other related characters: 2241 \(\sim\) – 2263 \(\equiv\)
- 2260 ≠ not equal to
- 2261 ≃ identical to
- A78A + modifier letter short equals sign
- 10190 ≐ right angle bracket

003E > GREATER-THSAN SIGN
- 203A > single right-pointing angle quotation mark
- 232A ) right-pointing angle bracket
- 27E9 ) mathematical right angle bracket
- 3009 ) right angle bracket

003F ? QUESTION MARK
- 00BF ? inverted question mark
- 037E ؟ greek question mark
- 061F ؟ arabic question mark
- 203D ؟ interrobang
- 2048 ؟ question exclamation mark
- 2049 ؟ exclamation question mark

0040 @ COMMERCIAL AT
- @ at sign

**Uppercase Latin alphabet**

0041 A LATIN CAPITAL LETTER A
0042 B LATIN CAPITAL LETTER B
- 212C \(\breve{\text{B}}\) script capital b
0043 C LATIN CAPITAL LETTER C
- 2102 Ź double-struck capital c
- 212D Č black-letter capital c
0044 D LATIN CAPITAL LETTER D
0045 E LATIN CAPITAL LETTER E
- 2107 \(\varepsilon\) euler constant
- 2130 \(\varepsilon\) script capital e
0046 F LATIN CAPITAL LETTER F
- 2131 \(\mathcal{F}\) script capital f
- 2132 \(\mathcal{F}\) turned capital f
0047 G LATIN CAPITAL LETTER G
0048 H LATIN CAPITAL LETTER H
- 210B \(\breve{\text{H}}\) script capital h
- 210C Ń black-letter capital h
- 210D Č black-letter capital h
0049 I LATIN CAPITAL LETTER I
- Turkish and Azerbaijani use 0131 ı for lowercase
- 0130 Ĩ latin capital letter i with dot above
0046 Ī cyrillic capital letter byelorussian-ukrainian i
- 04C0 І cyrillic letter palochna
- 2110 І script capital i
- 2111 І black-letter capital i
- 2101 Ī roman numeral one

004A J LATIN CAPITAL LETTER J
004B K LATIN CAPITAL LETTER K
- 212A \(\vec{\text{K}}\) kelvin sign
004C L LATIN CAPITAL LETTER L
- 2112 \(\vec{\text{L}}\) script capital l
004D M LATIN CAPITAL LETTER M
- 2133 \(\mathcal{M}\) script capital m
004E N LATIN CAPITAL LETTER N
- 2115 \(\breve{\text{N}}\) double-struck capital n
004F O LATIN CAPITAL LETTER O
0050 P LATIN CAPITAL LETTER P
- 2119 \(\breve{\text{P}}\) double-struck capital p

0051 Q LATIN CAPITAL LETTER Q
- 211A \(\breve{\text{Q}}\) double-struck capital q

0052 R LATIN CAPITAL LETTER R
- 211B \(\vec{\text{R}}\) script capital r
- 211C \(\mathfrak{R}\) black-letter capital r
- 211D \(\mathfrak{R}\) double-struck capital r

0053 S LATIN CAPITAL LETTER S
0054 T LATIN CAPITAL LETTER T
0055 U LATIN CAPITAL LETTER U
0056 V LATIN CAPITAL LETTER V
- 2164 \(\mathbb{V}\) roman numeral five
0057 W LATIN CAPITAL LETTER W
0058 X LATIN CAPITAL LETTER X
0059 Y LATIN CAPITAL LETTER Y
005A Z LATIN CAPITAL LETTER Z
- 2124 \(\breve{\text{Z}}\) double-struck capital z
- 2128 \(\mathfrak{Z}\) black-letter capital z

**ASCII punctuation and symbols**

005B [ LEFT SQUARE BRACKET
- [ at sign
- other bracket characters: 27E6 \([\text{–}]\) 27E7 \(\text{\–}\)
- 2983 \(\text{\–}\)
- 3008 \(\text{\–}\)

005C \ REVERSE SOLIDUS
- \ at sign
- 20ES \ combining reverse solidus overlay
- 2216 \ set minus

005D ] RIGHT SQUARE BRACKET
- ] at sign
- 20ES ] combining reverse solidus overlay
- 2216 ] set minus

005E ^ CIRCUMFLEX ACCENT
- ^ at sign
- this is a spacing character
- 02C4 \(\breve{\text{A}}\) modifier letter up arrowhead
- 02C6 \(\breve{\text{C}}\) modifier letter circumflex accent
- 0302 \(\breve{\text{e}}\) combining circumflex accent
- 2038 \(\breve{\text{e}}\) caret
- 2303 \(\breve{\text{e}}\) up arrowhead

005F _ LOW LINE
- _ at sign
- this is a spacing character
- 02CD _ modifier letter low macron
- 0331 _ combining macron below
- 0332 _ combining low line
- 2017 _ double low line

0060 ` GRAVE ACCENT
- ` at sign
- this is a spacing character
- 02CB ` modifier letter grave accent
- 0300 ` combining grave accent
- 2035 ` reversed prime

**Lowercase Latin alphabet**

0061 a LATIN SMALL LETTER A
0062 b LATIN SMALL LETTER B
0063 c LATIN SMALL LETTER C
0064 d LATIN SMALL LETTER D
0065 e LATIN SMALL LETTER E
- 212E \(\hat{\text{E}}\) estimated symbol
- 212F \(\hat{\text{e}}\) script small e

0066 f LATIN SMALL LETTER F
0067 g LATIN SMALL LETTER G
- 0261 g latin small letter script g
- 210A q script small g

0068 h LATIN SMALL LETTER H
- 04B8 h cyrillic small letter shha
- 210E h planck constant
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0069  i  LATIN SMALL LETTER I  
• Turkish and Azerbaijani use 0130 İ for uppercase  
   → 0131 İ latin small letter dotless i  
   → 1D6A4 ℎ mathematical italic small dotless i  

006A  j  LATIN SMALL LETTER J  
   → 0237 j latin small letter dotless j  
   → 1D6A5 ℱ mathematical italic small dotless j  

006B  k  LATIN SMALL LETTER K  

006C  l  LATIN SMALL LETTER L  
   → 2113 ℓ script small l  
   → 1D4C1 ℓ mathematical script small l  

006D  m  LATIN SMALL LETTER M  

006E  n  LATIN SMALL LETTER N  
   → 207F ♯ superscript latin small letter n  

006F  o  LATIN SMALL LETTER O  
   → 2134 ℰ script small o  

0070  p  LATIN SMALL LETTER P  

0071  q  LATIN SMALL LETTER Q  

0072  r  LATIN SMALL LETTER R  

0073  s  LATIN SMALL LETTER S  

0074  t  LATIN SMALL LETTER T  

0075  u  LATIN SMALL LETTER U  

0076  v  LATIN SMALL LETTER V  

0077  w  LATIN SMALL LETTER W  

0078  x  LATIN SMALL LETTER X  

0079  y  LATIN SMALL LETTER Y  

007A  z  LATIN SMALL LETTER Z  
   → 01B6 ƶ latin small letter z with stroke  

ASCIi punctuation and symbols  
007B  \ LEFT CURLY BRACKET  
   = opening curly bracket (1.0)  
   = left brace  

007C  | VERTICAL LINE  
   = vertical bar  
• used in pairs to indicate absolute value  
   → 01C0 | latin letter dental click  
   → 05C0 | hebrew punctuation paseq  
   → 2223 | divides  
   → 2758 | light vertical bar  

007D  ) RIGHT CURLY BRACKET  
   = closing curly bracket (1.0)  
   = right brace  

007E  ~ TILDE  
• this is a spacing character  
   → 02DC ~ small tilde  
   → 0303 ̃ combining tilde  
   → 2053 ⁓ swung dash  
   → 223C ~ tilde operator  
   → FF5E ~ fullwidth tilde  

Control character  
007F <control>  
= DELETE