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 9.0

This file may be changed at any time without notice to reflect errata or other updates to the Unicode Standard. 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-9.0/ for charts showing only the characters added in Unicode 9.0. See http://www.unicode.org/Public/9.0.0/charts/ for a complete archived file of character code charts for Unicode 9.0.

Disclaimer
These charts are provided as the online reference to the character contents of the Unicode Standard, Version 9.0 but do not provide all the information needed to fully support individual scripts using the Unicode Standard. For a complete understanding of the use of the characters contained in this file, please consult the appropriate sections of The Unicode Standard, Version 9.0, online at http://www.unicode.org/versions/Unicode9.0.0/, 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.

See http://www.unicode.org/ucd/ and http://www.unicode.org/reports/

A thorough understanding of the information contained in these additional sources is required for a successful implementation.

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C0 controls

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

0000 \texttt{\textless control\textgreater} = NULL
0001 \texttt{\textless control\textgreater} = START OF HEADING
0002 \texttt{\textless control\textgreater} = START OF TEXT
0003 \texttt{\textless control\textgreater} = END OF TEXT
0004 \texttt{\textless control\textgreater} = END OF TRANSMISSION
0005 \texttt{\textless control\textgreater} = ENQUIRY
0006 \texttt{\textless control\textgreater} = ACKNOWLEDGE
0007 \texttt{\textless control\textgreater} = BELL
0008 \texttt{\textless control\textgreater} = BACKSPACE
0009 \texttt{\textless control\textgreater} = CHARACTER TABULATION
000A \texttt{\textless control\textgreater} = LINE FEED (LF)
000B \texttt{\textless control\textgreater} = LINE TABULATION
000C \texttt{\textless control\textgreater} = FORM FEED (FF)
000D \texttt{\textless control\textgreater} = CARRIAGE RETURN (CR)
000E \texttt{\textless control\textgreater} = SHIFT OUT
\hspace{0.01em} known as LOCKING-SHIFT ONE in 8-bit environments
000F \texttt{\textless control\textgreater} = SHIFT IN
\hspace{0.01em} known as LOCKING-SHIFT ZERO in 8-bit environments
0010 \texttt{\textless control\textgreater} = DATA LINK ESCAPE
0011 \texttt{\textless control\textgreater} = DEVICE CONTROL ONE
0012 \texttt{\textless control\textgreater} = DEVICE CONTROL TWO
0013 \texttt{\textless control\textgreater} = DEVICE CONTROL THREE
0014 \texttt{\textless control\textgreater} = DEVICE CONTROL FOUR
0015 \texttt{\textless control\textgreater} = NEGATIVE ACKNOWLEDGE
0016 \texttt{\textless control\textgreater} = SYNCHRONOUS ACKNOWLEDGE
0017 \texttt{\textless control\textgreater} = SYNCHRONOUS IDLE
0018 \texttt{\textless control\textgreater} = END OF TRANSMISSION BLOCK
0019 \texttt{\textless control\textgreater} = CANCEL
001A \texttt{\textless control\textgreater} = END OF MEDIUM
001B \texttt{\textless control\textgreater} = SUBSTITUTE
\hspace{0.01em} \rightarrow \texttt{\textless control\textgreater} = FFFD \combining replacement character

ASCII punctuation and symbols

Based on ISO/IEC 646.

0020 \& SPACE
\hspace{0.01em} • sometimes considered a control code
\hspace{0.01em} • other space characters: \texttt{\textless 2000 \textgreater} \combining no-break space
\hspace{0.01em} → \texttt{\textless 200A \textgreater} \combining zero width space
\hspace{0.01em} → \texttt{\textless 2060 \textgreater} \combining word joiner
\hspace{0.01em} → \texttt{\textless 3000 \textgreater} \combining ideographic space
\hspace{0.01em} → \texttt{\textless FEFF \textgreater} \combining zero width no-break space

0021 \! EXCLAMATION MARK
\hspace{0.01em} = factorial
\hspace{0.01em} \hspace{0.01em} \rightarrow \texttt{\textless 00A1 \textgreater} \combining inverted exclamation mark
\hspace{0.01em} \hspace{0.01em} \rightarrow \texttt{\textless 01C3 \textgreater} \combining latin letter retroflex click
\hspace{0.01em} \hspace{0.01em} \rightarrow \texttt{\textless 203C \textgreater} \combining double exclamation mark
\hspace{0.01em} \hspace{0.01em} \rightarrow \texttt{\textless 203D \textgreater} \combining interrobang
\hspace{0.01em} \hspace{0.01em} \rightarrow \texttt{\textless 2762 \textgreater} \combining heavy exclamation mark ornament

0022 \" QUOTATION MARK
\hspace{0.01em} • neutral (vertical), used as opening or closing quotation mark
\hspace{0.01em} \hspace{0.01em} • preferred characters in English for paired quotation marks are \texttt{\textless 201C \textgreater} \combining D ‘ & \texttt{\textless 201D \textgreater} \combining D ”
\hspace{0.01em} \hspace{0.01em} • \texttt{\textless 05F4 \textgreater} \combining hebrew punctuation gershayim when writing Hebrew
\hspace{0.01em} \hspace{0.01em} \rightarrow \texttt{\textless 02BA \textgreater} \combining modifier letter double prime
\hspace{0.01em} \hspace{0.01em} \rightarrow \texttt{\textless 030B \textgreater} \combining combining double acute accent
\hspace{0.01em} \hspace{0.01em} \rightarrow \texttt{\textless 030E \textgreater} \combining combining double vertical line above
\hspace{0.01em} \hspace{0.01em} \rightarrow \texttt{\textless 05F4 \textgreater} \combining hebrew punctuation gershayim
\hspace{0.01em} \hspace{0.01em} \rightarrow \texttt{\textless 2033 \textgreater} \combining double prime
\hspace{0.01em} \hspace{0.01em} \rightarrow \texttt{\textless 3003 \textgreater} \combining ditto mark

0023 \# NUMBER SIGN
\hspace{0.01em} = pound sign, hash, crosshatch, octothorpe
\hspace{0.01em} \hspace{0.01em} \rightarrow \texttt{\textless 2114 \textgreater} \combining I bar symbol
\hspace{0.01em} \hspace{0.01em} \rightarrow \texttt{\textless 2317 \textgreater} \combining viewdata square
\hspace{0.01em} \hspace{0.01em} \rightarrow \texttt{\textless 266F \textgreater} \combining music sharp sign
\hspace{0.01em} \hspace{0.01em} \rightarrow \texttt{\textless 0023 FEE0 \textgreater} \combining text style
\hspace{0.01em} \hspace{0.01em} \rightarrow \texttt{\textless 0023 FEOF \textgreater} \combining emoji style

0024 $ DOLLAR SIGN
\hspace{0.01em} = milréis, escudo
\hspace{0.01em} \hspace{0.01em} • used for many peso currencies in Latin America and elsewhere
\hspace{0.01em} \hspace{0.01em} • glyph may have one or two vertical bars
\hspace{0.01em} \hspace{0.01em} • other currency symbol characters start at \texttt{\textless 20A0 \textgreater}
\hspace{0.01em} \hspace{0.01em} \rightarrow \texttt{\textless 00A4 \textgreater} \combining currency sign
\hspace{0.01em} \hspace{0.01em} \rightarrow \texttt{\textless 20B1 \textgreater} \combining peso sign
\hspace{0.01em} \hspace{0.01em} \rightarrow \texttt{\textless 1F4B2 \textgreater} \combining heavy dollar sign
0025 %  PERCENT SIGN
→ 066A % arabic percent sign
→ 2030 % per mille sign
→ 2031 %€ per ten thousand sign
→ 2052 % commercial minus sign

0026 &  AMPERSAND
→ 2044 & trionian sign et
→ 214B & 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
→ 02B9 ’ modifier letter prime
→ 02BC ’ modifier letter apostrophe
→ 02CB ’ modifier letter vertical line
→ 0301 ı combining acute accent
→ 05F3 ‘ hebrew punctuation gersh
→ 2032 ’ prime
→ 1A7C ‘ latin small letter saltitio

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
→ 2689 * sextile
→ 2731 ⋆ heavy asterisk
~ 002A FE0E text style
~ 002A FE0F emoji style

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
→ 2012 / division slash

ASCII digits
0030 0  DIGIT ZERO
~ 0030 FE00 0 short diagonal stroke form
~ 0030 FE0E text style
~ 0030 FE0F emoji style

0031 1  DIGIT ONE
~ 0031 FE0E text style
~ 0031 FE0F emoji style

0032 2  DIGIT TWO
~ 0032 FE0E text style
~ 0032 FE0F emoji style

0033 3  DIGIT THREE
~ 0033 FE0E text style
~ 0033 FE0F emoji style

0034 4  DIGIT FOUR
~ 0034 FE0E text style
~ 0034 FE0F emoji style

0035 5  DIGIT FIVE
~ 0035 FE0E text style
~ 0035 FE0F emoji style

0036 6  DIGIT SIX
~ 0036 FE0E text style
~ 0036 FE0F emoji style

0037 7  DIGIT SEVEN
~ 0037 FE0E text style
~ 0037 FE0F emoji style

0038 8  DIGIT EIGHT
~ 0038 FE0E text style
~ 0038 FE0F emoji style

0039 9  DIGIT NINE
~ 0039 FE0E text style
~ 0039 FE0F emoji style

ASCII punctuation and symbols
003A :  COLON
• also used to denote division or scale; for that mathematical use 2236 : is preferred
→ 0589 : armarian full stop
→ 05C3 : hebrew punctuation sof pasuq
→ 2236 : ratio
→ A789 : 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
### C0 Controls and Basic Latin

#### 003C < LESS-THAN SIGN
- Single left-pointing angle quotation mark
- Left-pointing angle bracket
- Mathematical left angle bracket
- Left angle bracket

#### 003D = EQUALS SIGN
- Other related characters: 2241 ≅ -2263 ≈
- Not equal to
- Identical to
- Modifier letter short equals sign

#### 003E > GREATER-THAN SIGN
- Single right-pointing angle quotation mark
- Right-pointing angle bracket
- Mathematical right angle bracket
- Right angle bracket

#### 003F ? QUESTION MARK
- Inverted question mark
- Greek question mark
- Arabic question mark
- Interrobang
- Question exclamation mark
- Exclamation question mark

#### 0040 @ COMMERCIAL AT
- At sign

### Uppercase Latin alphabet

<table>
<thead>
<tr>
<th>Hex</th>
<th>Character</th>
</tr>
</thead>
<tbody>
<tr>
<td>0041</td>
<td>LATIN CAPITAL LETTER A</td>
</tr>
<tr>
<td>0042</td>
<td>LATIN CAPITAL LETTER B</td>
</tr>
<tr>
<td>0043</td>
<td>LATIN CAPITAL LETTER C</td>
</tr>
<tr>
<td>0044</td>
<td>LATIN CAPITAL LETTER D</td>
</tr>
<tr>
<td>0045</td>
<td>LATIN CAPITAL LETTER E</td>
</tr>
<tr>
<td>0046</td>
<td>LATIN CAPITAL LETTER F</td>
</tr>
<tr>
<td>0047</td>
<td>LATIN CAPITAL LETTER G</td>
</tr>
<tr>
<td>0048</td>
<td>LATIN CAPITAL LETTER H</td>
</tr>
</tbody>
</table>

#### 0049 I LATIN CAPITAL LETTER I
- Turkish and Azerbaijani use 0131 ı for lowercase
- Latin capital letter i with dot above
- Cyrillic capital letter byelorussian-ukrainian i
- Cyrillic letter palochna
- Black-letter capital i
- Black-letter capital i
- Roman numeral one

#### 004A J LATIN CAPITAL LETTER J

#### 004B K LATIN CAPITAL LETTER K
- Kelvin sign

#### 004C L LATIN CAPITAL LETTER L
- Script capital l

#### 004D M LATIN CAPITAL LETTER M
- Script capital m

#### 004E N LATIN CAPITAL LETTER N
- Double-struck capital n

#### 004F O LATIN CAPITAL LETTER O

#### 0050 P LATIN CAPITAL LETTER P
- Double-struck capital p

#### 0051 Q LATIN CAPITAL LETTER Q
- Double-struck capital q

#### 0052 R LATIN CAPITAL LETTER R
- Script capital r
- Black-letter capital 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
- 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
- Double-struck capital z
- Black-letter capital z

### ASCII punctuation and symbols

<table>
<thead>
<tr>
<th>Hex</th>
<th>Character</th>
</tr>
</thead>
<tbody>
<tr>
<td>005B</td>
<td>LEFT SQUARE BRACKET</td>
</tr>
</tbody>
</table>
- Opening square bracket (1.0)
- Backslash
- Combining reverse solidus overlay
- Set minus

<table>
<thead>
<tr>
<th>Hex</th>
<th>Character</th>
</tr>
</thead>
<tbody>
<tr>
<td>005C</td>
<td>REVERSE SOLIDUS</td>
</tr>
</tbody>
</table>
- Backslash
- Combining reverse solidus overlay
- Set minus

<table>
<thead>
<tr>
<th>Hex</th>
<th>Character</th>
</tr>
</thead>
<tbody>
<tr>
<td>005D</td>
<td>RIGHT SQUARE BRACKET</td>
</tr>
</tbody>
</table>
- Closing square bracket (1.0)

#### 005E ^ CIRCUMFLEX ACCENT
- This is a spacing character
- Modifier letter up arrowhead
- Combining circumflex accent
- Caret
- Up arrowhead

#### 005F _ LOW LINE
- Spacing underscore (1.0)
- This is a spacing character
- Modifier letter low macron
- Combining macron below
- Combining low line
- Double low line

#### 0060 \ GRAVE ACCENT
- This is a spacing character
- Modifier letter grave accent
- Combining grave accent
- Reversed prime

### Lowercase Latin alphabet

<table>
<thead>
<tr>
<th>Hex</th>
<th>Character</th>
</tr>
</thead>
<tbody>
<tr>
<td>0061</td>
<td>LATIN SMALL LETTER A</td>
</tr>
<tr>
<td>0062</td>
<td>LATIN SMALL LETTER B</td>
</tr>
<tr>
<td>0063</td>
<td>LATIN SMALL LETTER C</td>
</tr>
<tr>
<td>0064</td>
<td>LATIN SMALL LETTER D</td>
</tr>
<tr>
<td>0065</td>
<td>LATIN SMALL LETTER E</td>
</tr>
<tr>
<td>0066</td>
<td>LATIN SMALL LETTER F</td>
</tr>
</tbody>
</table>

The Unicode Standard 9.0, Copyright © 1991-2016 Unicode, Inc. All rights reserved.
0067  g  LATIN SMALL LETTER G
    → 0261 g  latin small letter script g
    → 210A  g  script small g
0068  h  LATIN SMALL LETTER H
    → 04B8 h  cyrillic small letter shha
    → 210E  h  planck constant
0069  i  LATIN SMALL LETTER I
    • Turkish and Azerbaijani use 0130 İ for uppercase
    → 0131 ı  latin small letter dotless i
    → 1D6A4 i  mathematical italic small dotless i
006A  j  LATIN SMALL LETTER J
    → 0237 ȷ  latin small letter dotless j
    → 1D6A5 𝚥  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 ǀ  latin letter dental click
    → 05C0 ׀  hebrew punctuation paseq
    → 2223 ∣  divides
    → 223C ∼  tilde operator
    → FF5E ˜  fullwidth tilde
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