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 5.2.

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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-5.2/ for charts showing only the characters added in Unicode 5.2.
See http://www.unicode.org/Public/5.2.0/charts/ for a complete archived file of character code charts for Unicode 5.2.

Disclaimer
These charts are provided as the online reference to the character contents of the Unicode Standard, Version 5.2 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
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#11, #14, #15, #24, #29, #31, #34, #38, #41, #42, and #44, 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
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C0 Controls and Basic Latin

<table>
<thead>
<tr>
<th>000</th>
<th>001</th>
<th>002</th>
<th>003</th>
<th>004</th>
<th>005</th>
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<td>GS</td>
<td>-</td>
<td>=</td>
<td>M</td>
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<td>}</td>
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<tr>
<td>SO</td>
<td>RS</td>
<td>.</td>
<td>&gt;</td>
<td>N</td>
<td>^</td>
<td>n</td>
<td>~</td>
</tr>
<tr>
<td>SI</td>
<td>US</td>
<td>/</td>
<td>?</td>
<td>O</td>
<td>_</td>
<td>o</td>
<td>DEL</td>
</tr>
</tbody>
</table>
C0 controls

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

0000 <control> = NULL
0001 <control> = START OF HEADING
0002 <control> = START OF TEXT
0003 <control> = END OF TEXT
0004 <control> = END OF TRANSMISSION
0005 <control> = ENQUIRY
0006 <control> = ACKNOWLEDGE
0007 <control> = BELL
0008 <control> = BACKSPACE
0009 <control> = CHARACTER TABULATION
000A <control> = LINE FEED (LF)
000B <control> = LINE TABULATION
000C <control> = FORM FEED (FF)
000D <control> = CARRIAGE RETURN (CR)
000E <control> = SHIFT OUT
000F <control> = SHIFT IN
0010 <control> = DATA LINK ESCAPE
0011 <control> = DEVICE CONTROL ONE
0012 <control> = DEVICE CONTROL TWO
0013 <control> = DEVICE CONTROL THREE
0014 <control> = DEVICE CONTROL FOUR
0015 <control> = NEGATIVE ACKNOWLEDGE
0016 <control> = SYNCHRONOUS IDLE
0017 <control> = ENCODING IDLE
0018 <control> = END OF TRANSMISSION BLOCK
0019 <control> = CANCEL
001A <control> = SUBSTITUTE
001B <control> = ESCAPE
001C <control> = INFORMATION SEPARATOR FOUR
001D <control> = INFORMATION SEPARATOR THREE
001E <control> = INFORMATION SEPARATOR TWO
001F <control> = INFORMATION SEPARATOR ONE

ASCII punctuation and symbols

Based on ISO/IEC 646.

0020 ¶ SPACE
• sometimes considered a control code
• other space characters: 2000 — 200A  ”
  — 00AO ¶ no-break space
  — 2008 ¶ zero width space
  — 2060 ¶ word joiner
  — 3000 ¶ ideographic space
  — FEFF ¶ zero width no-break space
0021 ! EXCLAMATION MARK
= factorial
= bang
— 00A1 ¡ inverted exclamation mark
— 01C3 ǃ latin letter retroflex click
— 203C ‼ double exclamation mark
— 203D ‽ interrobang
— 2762 ⪕ heavy exclamation mark ornament
0022 ” QUOTATION MARK
• neutral (vertical), used as opening or closing quotation mark
• preferred characters in English for paired quotation marks are 201C ” & 201D ”
  — 02BA ” modifier letter double prime
  — 030B $ ̋ combining double acute accent
  — 030E $ ̎ combining double vertical line above
  — 2033 ” double prime
  — 3003 ” ditto mark
0023 # NUMBER SIGN
= pound sign, hash, crosshatch, octothorpe
— 2114 ™ l bar symbol
— 266F  $# music sharp sign
0024 $ DOLLAR SIGN
= milreis, escudo
• glyph may have one or two vertical bars
• other currency symbol characters: 20A0 $ — 20B5 ￠
  — 00A4 ￠ currency sign
0025 % PERCENT SIGN
— 066A % arabic percent sign
— 2030 % per mille sign
— 2031 %‰ per ten thousand sign
— 2052 % commercial minus sign
0026 & AMPERSAND
— 204A & tironian sign et
— 214B 앤 turned ampersand
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C0 Controls and Basic Latin

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 ‘
→ 02B9 ’ modifier letter prime
→ 02BC’ modifier letter apostrophe
→ 02CB’ modifier letter vertical line
→ 0301  ’ combining acute accent
→ 2032 ’ prime
→ A78C ’ latin small letter saltillo

ASTERISK
= star (on phone keypads)
→ 066D * arabic five pointed star
→ 204E * low asterisk
→ 2217 * asterisk operator
→ 2689 * xestile
→ 2731 ⋆ heavy asterisk

PLUS SIGN
= decimal separator
→ 06C0 . arabic comma
→ 201A , single low-9 quotation mark
→ 3001 , ideographic comma

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
→ 2212 — minus sign
→ 10191 ⌬ roman uncia sign

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

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

DIGIT NINE

ASCII punctuation and symbols

COLON
→ 0589 : armenian full stop
→ 05C3 : hebrew punctuation sof pasuq
→ 2236 : ratio
→ 2217 : asterisk operator

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

LESS-THAN SIGN
→ 2039 < single left-pointing angle quotation
  mark
→ 2329 ⟨ left-pointing angle bracket
→ 27EB ⟨ mathematical left angle bracket
→ 3008 ⟨ left angle bracket

EQUALS SIGN
• other related characters: 2241 = – 2263 ≃
→ 2260 ≠ not equal to
→ 2261 ≡ identical to
→ A78A = modifier letter short equals sign
→ 10190 = roman sextans sign

GREATERTHAN SIGN
→ 203A > single right-pointing angle quotation
  mark
→ 232A › right-pointing angle bracket
→ 27EB › mathematical right angle bracket
→ 3009 › right angle bracket

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

AT SIGN
= at sign

Uppercase Latin alphabet

LATIN CAPITAL LETTER A
→ 0041 A

LATIN CAPITAL LETTER B
→ 0042 B

LATIN CAPITAL LETTER C
→ 0043 C

LATIN CAPITAL LETTER D
→ 0044 D

LATIN CAPITAL LETTER E
→ 0045 E

LATIN CAPITAL LETTER F
→ 0046 F

LATIN CAPITAL LETTER G
→ 0047 G

LATIN CAPITAL LETTER H
→ 0048 H

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<table>
<thead>
<tr>
<th>Codepoint</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>007C</td>
<td>VERTICAL LINE</td>
</tr>
<tr>
<td></td>
<td>= vertical bar</td>
</tr>
<tr>
<td></td>
<td>• used in pairs to indicate absolute value</td>
</tr>
<tr>
<td></td>
<td>→ 01C0 - latin letter dental click</td>
</tr>
<tr>
<td></td>
<td>→ 05C0 - hebrew punctuation paseq</td>
</tr>
<tr>
<td></td>
<td>→ 2223 - divides</td>
</tr>
<tr>
<td></td>
<td>→ 2758 - light vertical bar</td>
</tr>
<tr>
<td>007D</td>
<td>RIGHT CURLY BRACKET</td>
</tr>
<tr>
<td></td>
<td>= closing curly bracket (1.0)</td>
</tr>
<tr>
<td></td>
<td>= right brace</td>
</tr>
<tr>
<td>007E</td>
<td>TILDE</td>
</tr>
<tr>
<td></td>
<td>• this is a spacing character</td>
</tr>
<tr>
<td></td>
<td>→ 02DC ~ small tilde</td>
</tr>
<tr>
<td></td>
<td>→ 0303 - combining tilde</td>
</tr>
<tr>
<td></td>
<td>→ 2053 ~ swung dash</td>
</tr>
<tr>
<td></td>
<td>→ 223C ~ tilde operator</td>
</tr>
<tr>
<td></td>
<td>→ FF5E ~ fullwidth tilde</td>
</tr>
</tbody>
</table>

**Control character**

<table>
<thead>
<tr>
<th>Codepoint</th>
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<tbody>
<tr>
<td>007F</td>
<td>&lt;control&gt;</td>
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<td></td>
<td>= DELETE</td>
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