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 5.1.

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-5.1/ for charts showing only the characters added in Unicode 5.1.
See http://www.unicode.org/Public/5.1.0/charts/ for a complete archived file of character code charts for Unicode 5.1.

Disclaimer
These charts are provided as the online reference to the character contents of the Unicode Standard, Version 5.1 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 5.0 (ISBN 0-321-48091-0), online at http://www.unicode.org/versions/Unicode5.0.0/, as well as Unicode Standard Annexes #9, #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 implementation.

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<thead>
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<th>001</th>
<th>002</th>
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<th>006</th>
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<td>o</td>
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</tbody>
</table>
C0 controls
Alias names are those for ISO/IEC 6429:1992. Commonly used alternative aliases are also shown.

0000 00 \0000 <control> = NULL
0001 00 <control> = START OF HEADING
0002 07 <control> = START OF TEXT
0003 07 <control> = END OF TEXT
0004 07 <control> = END OF TRANSMISSION
0005 00 <control> = ENQUIRY
0006 00 <control> = ACKNOWLEDGE
0007 00 <control> = BELL
0008 05 <control> = BACKSPACE
0009 07 <control> = CHARACTER TABULATION
000A 1F <control> = LINE FEED (LF)
000B 1F <control> = LINE TABULATION
000C 0F <control> = vertical tabulation (VT)
000D 0C <control> = FORM FEED (FF)
000E 0C <control> = CARRIAGE RETURN (CR)
000F 0C <control> = SHIFT OUT
  • known as LOCKING-SHIFT ONE in 8-bit environments
0010 1E <control> = SHIFT IN
  • known as LOCKING-SHIFT ZERO in 8-bit environments
0011 5C <control> = DATA LINK ESCAPE
0012 5C <control> = DEVICE CONTROL ONE
0013 5C <control> = DEVICE CONTROL TWO
0014 5C <control> = DEVICE CONTROL THREE
0015 5C <control> = DEVICE CONTROL FOUR
0016 5C <control> = NEGATIVE ACKNOWLEDGE
0017 6E <control> = SYNCHRONOUS IDLE
0018 6E <control> = END OF TRANSMISSION BLOCK
0019 6E <control> = END OF MEDIUM
001A 6E <control> = SUBSTITUTE
  → FFFD ♦ replacement character
001B 7F <control> = ESCAPE
001C 7F <control> = INFORMATION SEPARATOR FOUR
001D 7F <control> = file separator (FS)
001E 7F <control> = INFORMATION SEPARATOR THREE
001F 7F <control> = group separator (GS)

ASCII punctuation and symbols
Based on ISO/IEC 646.

0020 20 SPACE
  • sometimes considered a control code
  • other space characters: 2000 ⌼ – 200A ⼑
  → 00A0 ⌼ no-break space
  → 200B ⌼ 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 ❖ 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 acute accent above
  → 2033 " double prime
  → 3003 ′ ditto mark
0023 # NUMBER SIGN
  = pound sign, hash, crosshatch, octothorpe
  → 2114 £ 1 b bar symbol
  → 266F ♯ music sharp sign
0024 $ DOLLAR SIGN
  = milreis, escudo
  • glyph may have one or two vertical bars
  • other currency symbol characters:
    20A0 ₳ – 20BF ₡
  → 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 ⋵ turned ampersand
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C0 Controls and Basic Latin

**ASCII punctuation and symbols**

- **COLON**
  - 003A :
  - 059A : armarian full stop
  - 05C3 : hebrew punctuation sof pasuq
  - 2236 : ratio
  - A789 : modifier letter colon

- **SEMICOLON**
  - 003B ;
  - 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**
  - 003C <
  - 2039 : single left-pointing angle quotation mark
  - 2329 ⟨ left-pointing angle bracket
  - 27E8 ( mathematical left angle bracket
  - 3008 ⟨ left angle bracket

- **EQUALS SIGN**
  - 003D =
  - other related characters: 2241 – 2263 ≡
  - 2260 ≠ not equal to
  - 2261 = identical to
  - A78A : modifier letter short equals sign
  - 10190 = roman sexants sign

- **GREATER-THAN SIGN**
  - 003E >
  - 203A :
  - 232A ⟩ right-pointing angle bracket
  - 27E9 ⟩ mathematical right angle bracket
  - 3009 ⟩ right angle bracket

- **QUESTION MARK**
  - 003F ?
  - 00BF ; greek question mark
  - 037E : greek question mark
  - 061F : arabic question mark
  - 203D ⋍ interrobang
  - 2048 ⁉ question exclamation mark
  - 2049 ⁊ exclamation question mark
  - 10190 = roman sexants sign

- **COMMERCIAL AT**
  - 0040 @
  - = at sign

**Uppercase Latin alphabet**

- 0041 A LATIN CAPITAL LETTER A
- 0042 B LATIN CAPITAL LETTER B
- 212C Ă script capital b
- 0043 C LATIN CAPITAL LETTER C
- 2102 Ć double-struck capital c
- 212D Ć black-letter capital c
- 0044 D LATIN CAPITAL LETTER D
- 0045 E LATIN CAPITAL LETTER E
- 2107 Ė euler constant
- 2130 Ĉ script capital e
- 0046 F LATIN CAPITAL LETTER F
- 2131 Ċ script capital f
- 2132 ď turned capital f
- 0047 G LATIN CAPITAL LETTER G
C0 Controls and Basic Latin

ASCII punctuation and symbols

- LEFT SQUARE BRACKET (opening square bracket, 1.0)
- REVERSE SOLIDUS (backslash)
- RIGHT SQUARE BRACKET (closing square bracket, 1.0)
- CIRCUMFLEX ACCENT (this is a spacing character)

Lowercase Latin alphabet

- LATIN SMALL LETTER A
- LATIN SMALL LETTER B
- LATIN SMALL LETTER C
- LATIN SMALL LETTER D
- LATIN SMALL LETTER E
- LATIN SMALL LETTER F
- LATIN SMALL LETTER G
- LATIN SMALL LETTER H
- LATIN SMALL LETTER I
- LATIN SMALL LETTER J
- LATIN SMALL LETTER K
- LATIN SMALL LETTER L
- LATIN SMALL LETTER M
- LATIN SMALL LETTER N
- LATIN SMALL LETTER O
- LATIN SMALL LETTER P
- LATIN SMALL LETTER Q
- LATIN SMALL LETTER R
- LATIN SMALL LETTER S
- LATIN SMALL LETTER T
- LATIN SMALL LETTER U
- LATIN SMALL LETTER V
- LATIN SMALL LETTER W
- LATIN SMALL LETTER X
- LATIN SMALL LETTER Y
- LATIN SMALL LETTER Z

005F _ LOW LINE
- = spacing underscore (1.0)
- = this is a spacing character
- = modifier letter low macron
- = combining letter 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
<table>
<thead>
<tr>
<th>Code</th>
<th>Symbol</th>
<th>Description</th>
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<tbody>
<tr>
<td>007C</td>
<td>VERTICAL LINE</td>
<td>= vertical bar</td>
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<tr>
<td></td>
<td></td>
<td>• used in pairs to indicate absolute value</td>
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<tr>
<td></td>
<td></td>
<td>→ 01C0  latin letter dental click</td>
</tr>
<tr>
<td></td>
<td></td>
<td>→ 05C0  hebrew punctuation paseq</td>
</tr>
<tr>
<td></td>
<td></td>
<td>→ 2223  divides</td>
</tr>
<tr>
<td></td>
<td></td>
<td>→ 2758  light vertical bar</td>
</tr>
<tr>
<td>007D</td>
<td>RIGHT CURLY BRACKET</td>
<td>= closing curly bracket (1.0)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>= right brace</td>
</tr>
<tr>
<td>007E</td>
<td>TILDE</td>
<td>• this is a spacing character</td>
</tr>
<tr>
<td></td>
<td></td>
<td>→ 02DC  small tilde</td>
</tr>
<tr>
<td></td>
<td></td>
<td>→ 0303  Combining tilde</td>
</tr>
<tr>
<td></td>
<td></td>
<td>→ 2053  swung dash</td>
</tr>
<tr>
<td></td>
<td></td>
<td>→ 223C  tilde operator</td>
</tr>
<tr>
<td></td>
<td></td>
<td>→ FF5E  fullwidth tilde</td>
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</table>

**Control character**

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<tr>
<th>Code</th>
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<th>Description</th>
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<tbody>
<tr>
<td>007F</td>
<td>&lt;control&gt;</td>
<td>= DELETE</td>
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