

## **C1 Controls and Latin-1 Supplement**

### **Range: 0080–00FF**

This file contains an excerpt from the character code tables and list of character names for the Unicode Standard, last updated for  
*The Unicode Standard, Version 4.0.*

This file may be updated as necessary to reflect errata without notice. For an up-to-date list of errata, see <http://www.unicode.org/errata/>

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These charts are provided as the on-line reference to the character contents of the Unicode Standard, Version 4.0 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 excerpt file, please consult the appropriate sections of The Unicode Standard, Version 4.0 (ISBN 0-321-18578-1), as well as Unicode Standard Annexes #9, #11, #14, #15, #24 and #29, the other Unicode Technical Reports and the Unicode Character Database, which are available on-line.

See <http://www.unicode.org/Public/UNIDATA/UCD.html> 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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See <http://www.unicode.org/pending/pending.html> and <http://www.unicode.org/alloc/Pipeline.html>.

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	008	009	00A	00B	00C	00D	00E	00F
0	<div>XXX</div> <div>0080</div>	<div>DCS</div> <div>0090</div>	<div>NB SP</div> <div>00A0</div>	◌ <div>00B0</div>	À <div>00C0</div>	Đ <div>00D0</div>	à <div>00E0</div>	đ <div>00F0</div>
1	<div>XXX</div> <div>0081</div>	<div>PU1</div> <div>0091</div>	¡ <div>00A1</div>	± <div>00B1</div>	Á <div>00C1</div>	Ñ <div>00D1</div>	á <div>00E1</div>	ñ <div>00F1</div>
2	<div>BPH</div> <div>0082</div>	<div>PU2</div> <div>0092</div>	¢ <div>00A2</div>	² <div>00B2</div>	Â <div>00C2</div>	Ò <div>00D2</div>	â <div>00E2</div>	ò <div>00F2</div>
3	<div>NBH</div> <div>0083</div>	<div>STS</div> <div>0093</div>	£ <div>00A3</div>	³ <div>00B3</div>	Ã <div>00C3</div>	Ó <div>00D3</div>	ã <div>00E3</div>	ó <div>00F3</div>
4	<div>IND</div> <div>0084</div>	<div>CCH</div> <div>0094</div>	¤ <div>00A4</div>	´ <div>00B4</div>	Ä <div>00C4</div>	Ô <div>00D4</div>	ä <div>00E4</div>	ô <div>00F4</div>
5	<div>NEL</div> <div>0085</div>	<div>MW</div> <div>0095</div>	¥ <div>00A5</div>	μ <div>00B5</div>	Å <div>00C5</div>	Õ <div>00D5</div>	å <div>00E5</div>	õ <div>00F5</div>
6	<div>SSA</div> <div>0086</div>	<div>SPA</div> <div>0096</div>	¦ <div>00A6</div>	¶ <div>00B6</div>	Æ <div>00C6</div>	Ö <div>00D6</div>	æ <div>00E6</div>	ö <div>00F6</div>
7	<div>ESA</div> <div>0087</div>	<div>EPA</div> <div>0097</div>	§ <div>00A7</div>	• <div>00B7</div>	Ç <div>00C7</div>	× <div>00D7</div>	ç <div>00E7</div>	÷ <div>00F7</div>
8	<div>HTS</div> <div>0088</div>	<div>SOS</div> <div>0098</div>	¨ <div>00A8</div>	¸ <div>00B8</div>	È <div>00C8</div>	Ø <div>00D8</div>	è <div>00E8</div>	ø <div>00F8</div>
9	<div>HTJ</div> <div>0089</div>	<div>XXX</div> <div>0099</div>	© <div>00A9</div>	¹ <div>00B9</div>	É <div>00C9</div>	Ù <div>00D9</div>	é <div>00E9</div>	ù <div>00F9</div>
A	<div>VTS</div> <div>008A</div>	<div>SCI</div> <div>009A</div>	ª <div>00AA</div>	º <div>00BA</div>	Ê <div>00CA</div>	Ú <div>00DA</div>	ê <div>00EA</div>	ú <div>00FA</div>
B	<div>PLD</div> <div>008B</div>	<div>CSI</div> <div>009B</div>	« <div>00AB</div>	» <div>00BB</div>	Ë <div>00CB</div>	Û <div>00DB</div>	ë <div>00EB</div>	û <div>00FB</div>
C	<div>PLU</div> <div>008C</div>	<div>ST</div> <div>009C</div>	¬ <div>00AC</div>	¼ <div>00BC</div>	Ì <div>00CC</div>	Ü <div>00DC</div>	ì <div>00EC</div>	ü <div>00FC</div>
D	<div>RI</div> <div>008D</div>	<div>OSC</div> <div>009D</div>	<div>SHY</div> <div>00AD</div>	½ <div>00BD</div>	Í <div>00CD</div>	Ý <div>00DD</div>	í <div>00ED</div>	ý <div>00FD</div>
E	<div>SS2</div> <div>008E</div>	<div>PM</div> <div>009E</div>	® <div>00AE</div>	¾ <div>00BE</div>	Î <div>00CE</div>	Þ <div>00DE</div>	î <div>00EE</div>	þ <div>00FE</div>
F	<div>SS3</div> <div>008F</div>	<div>APC</div> <div>009F</div>	— <div>00AF</div>	¿ <div>00BF</div>	Ï <div>00CF</div>	ß <div>00DF</div>	ï <div>00EF</div>	ÿ <div>00FF</div>

**C1 controls**

*Alias names are those for ISO/IEC 6429:1992.*



0080	<span style="border: 1px dashed black; padding: 0 2px;">XXX</span>	<control>	
0081	<span style="border: 1px dashed black; padding: 0 2px;">XXX</span>	<control>	
0082	<span style="border: 1px dashed black; padding: 0 2px;">BPH</span>	<control>	= BREAK PERMITTED HERE
0083	<span style="border: 1px dashed black; padding: 0 2px;">NBH</span>	<control>	= NO BREAK HERE
0084	<span style="border: 1px dashed black; padding: 0 2px;">IND</span>	<control>	
0085	<span style="border: 1px dashed black; padding: 0 2px;">NEL</span>	<control>	= NEXT LINE (NEL)
0086	<span style="border: 1px dashed black; padding: 0 2px;">SSA</span>	<control>	= START OF SELECTED AREA
0087	<span style="border: 1px dashed black; padding: 0 2px;">ESA</span>	<control>	= END OF SELECTED AREA
0088	<span style="border: 1px dashed black; padding: 0 2px;">HTS</span>	<control>	= CHARACTER TABULATION SET
0089	<span style="border: 1px dashed black; padding: 0 2px;">HTJ</span>	<control>	= CHARACTER TABULATION WITH JUSTIFICATION
008A	<span style="border: 1px dashed black; padding: 0 2px;">VTS</span>	<control>	= LINE TABULATION SET
008B	<span style="border: 1px dashed black; padding: 0 2px;">PLD</span>	<control>	= PARTIAL LINE FORWARD
008C	<span style="border: 1px dashed black; padding: 0 2px;">PLU</span>	<control>	= PARTIAL LINE BACKWARD
008D	<span style="border: 1px dashed black; padding: 0 2px;">RI</span>	<control>	= REVERSE LINE FEED
008E	<span style="border: 1px dashed black; padding: 0 2px;">SS2</span>	<control>	= SINGLE SHIFT TWO
008F	<span style="border: 1px dashed black; padding: 0 2px;">SS3</span>	<control>	= SINGLE SHIFT THREE
0090	<span style="border: 1px dashed black; padding: 0 2px;">DCS</span>	<control>	= DEVICE CONTROL STRING
0091	<span style="border: 1px dashed black; padding: 0 2px;">PU1</span>	<control>	= PRIVATE USE ONE
0092	<span style="border: 1px dashed black; padding: 0 2px;">PU2</span>	<control>	= PRIVATE USE TWO
0093	<span style="border: 1px dashed black; padding: 0 2px;">STS</span>	<control>	= SET TRANSMIT STATE
0094	<span style="border: 1px dashed black; padding: 0 2px;">CCH</span>	<control>	= CANCEL CHARACTER
0095	<span style="border: 1px dashed black; padding: 0 2px;">MW</span>	<control>	= MESSAGE WAITING
0096	<span style="border: 1px dashed black; padding: 0 2px;">SPA</span>	<control>	= START OF GUARDED AREA
0097	<span style="border: 1px dashed black; padding: 0 2px;">EPA</span>	<control>	= END OF GUARDED AREA
0098	<span style="border: 1px dashed black; padding: 0 2px;">SOS</span>	<control>	= START OF STRING
0099	<span style="border: 1px dashed black; padding: 0 2px;">XXX</span>	<control>	
009A	<span style="border: 1px dashed black; padding: 0 2px;">SCI</span>	<control>	= SINGLE CHARACTER INTRODUCER
009B	<span style="border: 1px dashed black; padding: 0 2px;">CSI</span>	<control>	= CONTROL SEQUENCE INTRODUCER
009C	<span style="border: 1px dashed black; padding: 0 2px;">ST</span>	<control>	= STRING TERMINATOR

009D	<span style="border: 1px dashed black; padding: 0 2px;">OSC</span>	<control>	= OPERATING SYSTEM COMMAND
009E	<span style="border: 1px dashed black; padding: 0 2px;">PM</span>	<control>	= PRIVACY MESSAGE
009F	<span style="border: 1px dashed black; padding: 0 2px;">APC</span>	<control>	= APPLICATION PROGRAM COMMAND


**Latin-1 punctuation and symbols**

*Based on ISO/IEC 8859-1 (aka Latin-1) from here.*

00A0	<span style="border: 1px dashed black; padding: 0 2px;">NB</span>	NO-BREAK SPACE	= NBSP → 0020 <span style="border: 1px dashed black; padding: 0 2px;">SP</span> space → 2007 <span style="border: 1px dashed black; padding: 0 2px;">SP</span> figure space → 202F <span style="border: 1px dashed black; padding: 0 2px;">NNB</span> narrow no-break space → 2060 <span style="border: 1px dashed black; padding: 0 2px;">WJ</span> word joiner → FEFF <span style="border: 1px dashed black; padding: 0 2px;">ZWN</span> zero width no-break space ≈ <noBreak> 0020 <span style="border: 1px dashed black; padding: 0 2px;">SP</span>
00A1	¡	INVERTED EXCLAMATION MARK	• Spanish, Asturian, Galician → 0021 ! exclamation mark
00A2	¢	CENT SIGN	
00A3	£	POUND SIGN	= pound sterling, Irish punt, Italian lira, Turkish lira, etc. → 20A4 £ lira sign
00A4	¤	CURRENCY SIGN	= Filzlaus, Ricardi-Sonne (German names) • other currency symbol characters: 20A0 ¤ –20AF ¤ → 0024 \$ dollar sign
00A5	¥	YEN SIGN	= yuan sign • glyph may have one or two crossbars
00A6		BROKEN BAR	= BROKEN VERTICAL BAR = parted rule (in typography)
00A7	§	SECTION SIGN	• paragraph sign in some European usage
00A8	¨	DIAERESIS	• this is a spacing character → 0308 ¨ combining diaeresis ≈ 0020 <span style="border: 1px dashed black; padding: 0 2px;">SP</span> 0308 ¨
00A9	©	COPYRIGHT SIGN	→ 2117 ® sound recording copyright
00AA	ª	FEMININE ORDINAL INDICATOR	• Spanish ≈ <super> 0061 a
00AB	«	LEFT-POINTING DOUBLE ANGLE QUOTATION MARK	= LEFT POINTING GUILLEMET = chevrons (in typography) • usually opening, sometimes closing → 226A « much less-than → 300A « left double angle bracket
00AC	¬	NOT SIGN	= angled dash (in typography) → 2310 ¬ reversed not sign

00AD  SOFT HYPHEN  
 = SHY  
 = discretionary hyphen  
 → 1806  mongolian todo soft hyphen

00AE ® REGISTERED SIGN  
 = REGISTERED TRADE MARK SIGN


00AF ¯ MACRON  
 = overline, APL overbar  
 • this is a spacing character  
 → 02C9 ¯ modifier letter macron  
 → 0304 ¯ combining macron  
 → 0305 ¯ combining overline  
 ≈ 0020  0304 ¯

00B0 ° DEGREE SIGN  
 • this is a spacing character  
 → 02DA ° ring above  
 → 030A ° combining ring above  
 → 2070 ° superscript zero  
 → 2218 ° ring operator

00B1 ± PLUS-MINUS SIGN  
 → 2213 ∓ minus-or-plus sign

00B2 ² SUPERSCRIPT TWO  
 = squared  
 • other superscript digit characters:  
 2070 ⁰ –2079 ⁹  
 → 00B9 ¹ superscript one  
 ≈ <super> 0032 2


00B3 ³ SUPERSCRIPT THREE  
 = cubed  
 → 00B9 ¹ superscript one  
 ≈ <super> 0033 3

00B4 ´ ACUTE ACCENT  
 • this is a spacing character  
 → 02B9 ´ modifier letter prime  
 → 02CA ´ modifier letter acute accent  
 → 0301 ó combining acute accent  
 → 2032 ´ prime  
 ≈ 0020  0301 ó

00B5 µ MICRO SIGN  
 ≈ 03BC µ greek small letter mu

00B6 ¶ PILCROW SIGN  
 = PARAGRAPH SIGN  
 • section sign in some European usage  
 → 204B ¶ reversed pilcrow sign  
 → 2761 ¶ curved stem paragraph sign ornament

00B7 • MIDDLE DOT  
 = midpoint (in typography)  
 = Georgian comma  
 = Greek middle dot (ano teleia)  
 → 0387 • greek ano teleia  
 → 2022 • bullet  
 → 2024 . one dot leader  
 → 2027 • hyphenation point  
 → 2219 • bullet operator  
 → 22C5 • dot operator  
 → 30FB • katakana middle dot

00B8 ¸ CEDILLA  
 • this is a spacing character  
 • other spacing accent characters:  
 02D8 ˇ –02DB ˘  
 → 0327 ˘ combining cedilla  
 ≈ 0020  0327 ˘

00B9 ¹ SUPERSCRIPT ONE  
 → 00B2 ² superscript two  
 → 00B3 ³ superscript three  
 ≈ <super> 0031 1

00BA º MASCULINE ORDINAL INDICATOR  
 • Spanish  
 ≈ <super> 006F o

00BB » RIGHT-POINTING DOUBLE ANGLE QUOTATION MARK  
 = RIGHT POINTING GUILLEMET  
 • usually closing, sometimes opening  
 → 226B » much greater-than  
 → 300B » right double angle bracket

00BC ¼ VULGAR FRACTION ONE QUARTER  
 • bar may be horizontal or slanted  
 • other fraction characters: 2153 ⅓ –215E ⅔  
 ≈ 0031 1 2044 / 0034 4

00BD ½ VULGAR FRACTION ONE HALF  
 • bar may be horizontal or slanted  
 ≈ 0031 1 2044 / 0032 2

00BE ¾ VULGAR FRACTION THREE QUARTERS  
 • bar may be horizontal or slanted  
 ≈ 0033 3 2044 / 0034 4

00BF ¿ INVERTED QUESTION MARK  
 = turned question mark  
 • Spanish  
 → 003F ? question mark

### Letters

00C0 À LATIN CAPITAL LETTER A WITH GRAVE  
 ≈ 0041 A 0300 `

00C1 Á LATIN CAPITAL LETTER A WITH ACUTE  
 ≈ 0041 A 0301 ´

00C2 Â LATIN CAPITAL LETTER A WITH CIRCUMFLEX  
 ≈ 0041 A 0302 ˆ

00C3 Ã LATIN CAPITAL LETTER A WITH TILDE  
 ≈ 0041 A 0303 ˜

00C4 Ä LATIN CAPITAL LETTER A WITH DIAERESIS  
 ≈ 0041 A 0308 ˚

00C5 Å LATIN CAPITAL LETTER A WITH RING ABOVE  
 → 212B Å angstrom sign  
 ≈ 0041 A 030A ˚

00C6 Æ LATIN CAPITAL LETTER AE  
 = LATIN CAPITAL LIGATURE AE

00C7 Ç LATIN CAPITAL LETTER C WITH CEDILLA  
 ≡ 0043 C 0327 ¸

00C8 È LATIN CAPITAL LETTER E WITH GRAVE  
 ≡ 0045 E 0300 `

00C9 É LATIN CAPITAL LETTER E WITH ACUTE  
 ≡ 0045 E 0301 ´

00CA Ê LATIN CAPITAL LETTER E WITH CIRCUMFLEX  
 ≡ 0045 E 0302 ^

00CB Ë LATIN CAPITAL LETTER E WITH DIAERESIS  
 ≡ 0045 E 0308 ö

00CC Ì LATIN CAPITAL LETTER I WITH GRAVE  
 ≡ 0049 I 0300 `

00CD Í LATIN CAPITAL LETTER I WITH ACUTE  
 ≡ 0049 I 0301 ´

00CE Î LATIN CAPITAL LETTER I WITH CIRCUMFLEX  
 ≡ 0049 I 0302 ^

00CF Ï LATIN CAPITAL LETTER I WITH DIAERESIS  
 ≡ 0049 I 0308 ö

00D0 Ð LATIN CAPITAL LETTER ETH  
 → 00F0 ð latin small letter eth  
 → 0110 Đ latin capital letter d with stroke  
 → 0189 Ð latin capital letter african d

00D1 Ñ LATIN CAPITAL LETTER N WITH TILDE  
 ≡ 004E N 0303 ~

00D2 Ò LATIN CAPITAL LETTER O WITH GRAVE  
 ≡ 004F O 0300 `

00D3 Ó LATIN CAPITAL LETTER O WITH ACUTE  
 ≡ 004F O 0301 ´

00D4 Ô LATIN CAPITAL LETTER O WITH CIRCUMFLEX  
 ≡ 004F O 0302 ^

00D5 Õ LATIN CAPITAL LETTER O WITH TILDE  
 ≡ 004F O 0303 ~

00D6 Ö LATIN CAPITAL LETTER O WITH DIAERESIS  
 ≡ 004F O 0308 ö

### Mathematical operator

00D7 × MULTIPLICATION SIGN  
 = z notation Cartesian product

### Letters

00D8 Ø LATIN CAPITAL LETTER O WITH STROKE  
 = LATIN CAPITAL LETTER O SLASH  
 → 2205 Ø empty set

00D9 Ù LATIN CAPITAL LETTER U WITH GRAVE  
 ≡ 0055 U 0300 `

00DA Ú LATIN CAPITAL LETTER U WITH ACUTE  
 ≡ 0055 U 0301 ´

00DB Û LATIN CAPITAL LETTER U WITH CIRCUMFLEX  
 ≡ 0055 U 0302 ^

00DC Ü LATIN CAPITAL LETTER U WITH DIAERESIS  
 ≡ 0055 U 0308 ö

00DD Ý LATIN CAPITAL LETTER Y WITH ACUTE  
 ≡ 0059 Y 0301 ´

00DE Þ LATIN CAPITAL LETTER THORN

00DF ß LATIN SMALL LETTER SHARP S  
 = Eszett  
 • German  
 • uppercase is “SS”  
 • in origin a ligature of 017F f and 0073 s  
 → 03B2 β greek small letter beta

00E0 à LATIN SMALL LETTER A WITH GRAVE  
 ≡ 0061 a 0300 `

00E1 á LATIN SMALL LETTER A WITH ACUTE  
 ≡ 0061 a 0301 ´

00E2 â LATIN SMALL LETTER A WITH CIRCUMFLEX  
 ≡ 0061 a 0302 ^

00E3 ã LATIN SMALL LETTER A WITH TILDE  
 • Portuguese  
 ≡ 0061 a 0303 ~

00E4 ä LATIN SMALL LETTER A WITH DIAERESIS  
 ≡ 0061 a 0308 ö

00E5 å LATIN SMALL LETTER A WITH RING ABOVE  
 • Danish, Norwegian, Swedish, Walloon  
 ≡ 0061 a 030A ¯

00E6 æ LATIN SMALL LETTER AE  
 = LATIN SMALL LIGATURE AE  
 = ash (from Old English æsc)  
 • Danish, Norwegian, Icelandic, Faroese, Old English, French, IPA  
 → 0153 œ latin small ligature oe  
 → 04D5 æ cyrillic small ligature a ie

00E7 ç LATIN SMALL LETTER C WITH CEDILLA  
 ≡ 0063 c 0327 ¸

00E8 è LATIN SMALL LETTER E WITH GRAVE  
 ≡ 0065 e 0300 `

00E9 é LATIN SMALL LETTER E WITH ACUTE  
 ≡ 0065 e 0301 ´

00EA	ê	LATIN SMALL LETTER E WITH CIRCUMFLEX ≡ 0065 e 0302 ô	00FC	ü	LATIN SMALL LETTER U WITH DIAERESIS ≡ 0075 u 0308 ö
00EB	ë	LATIN SMALL LETTER E WITH DIAERESIS ≡ 0065 e 0308 ö	00FD	ý	LATIN SMALL LETTER Y WITH ACUTE • Czech, Slovak, Icelandic, Faroese, Welsh, Malagasy ≡ 0079 y 0301 ó
00EC	ì	LATIN SMALL LETTER I WITH GRAVE • Italian, Malagasy ≡ 0069 i 0300 ò	00FE	þ	LATIN SMALL LETTER THORN • Icelandic, Old English, phonetics • Runic letter borrowed into Latin script → 16A6 þ runic letter thurisaz thurs thorn
00ED	í	LATIN SMALL LETTER I WITH ACUTE ≡ 0069 i 0301 ó	00FF	ÿ	LATIN SMALL LETTER Y WITH DIAERESIS • French → 0178 Ÿ latin capital letter y with diaeresis ≡ 0079 y 0308 ö
00EE	î	LATIN SMALL LETTER I WITH CIRCUMFLEX ≡ 0069 i 0302 ô			
00EF	ï	LATIN SMALL LETTER I WITH DIAERESIS ≡ 0069 i 0308 ö			
00F0	ð	LATIN SMALL LETTER ETH • Icelandic, Faroese, Old English, IPA → 00D0 Ð latin capital letter eth → 03B4 δ greek small letter delta → 2202 ∂ partial differential			
00F1	ñ	LATIN SMALL LETTER N WITH TILDE ≡ 006E n 0303 ñ			
00F2	ò	LATIN SMALL LETTER O WITH GRAVE ≡ 006F o 0300 ò			
00F3	ó	LATIN SMALL LETTER O WITH ACUTE ≡ 006F o 0301 ó			
00F4	ô	LATIN SMALL LETTER O WITH CIRCUMFLEX ≡ 006F o 0302 ô			
00F5	õ	LATIN SMALL LETTER O WITH TILDE • Portuguese, Estonian ≡ 006F o 0303 ñ			
00F6	ö	LATIN SMALL LETTER O WITH DIAERESIS ≡ 006F o 0308 ö			

### Mathematical operator

00F7 ÷ DIVISION SIGN

### Letters

00F8	ø	LATIN SMALL LETTER O WITH STROKE = LATIN SMALL LETTER O SLASH • Danish, Norwegian, Faroese, IPA
00F9	ù	LATIN SMALL LETTER U WITH GRAVE • French, Italian ≡ 0075 u 0300 ò
00FA	ú	LATIN SMALL LETTER U WITH ACUTE ≡ 0075 u 0301 ó
00FB	û	LATIN SMALL LETTER U WITH CIRCUMFLEX ≡ 0075 u 0302 ô