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*

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-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 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 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.

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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See http://www.unicode.org/charts/fonts.html for a list.

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See http://www.unicode.org/pending/pending.html and http://www.unicode.org/alloc/Pipeline.html.

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	000	001	002	003	004	005	006	007
0	NUL 0000	DLE	SP 0020	0030	<u>@</u>	P 0050	0060	p
1	(SOH)	DC1	0021	1 0031	A 0041	Q 0051	a 0061	q
2	[STX]	DC2	0022	2	B	R 0052	b	1 ° 0072
3	(ETX)	DC3	# 0023	3	C	S 0053	C	S
4	(EOT)	DC4	\$ 0024	4	D 0044	T 0054	d 0064	t
5	ENQ	0015	% 0025	5	E 0045	U 0055	e 0065	u
6	0006	SYN 0016	& 0026	6	$\mathbf{F}_{_{0046}}$	V 0056	f	V
7	BEL 0007	(ETB)	0027	7	G	W 0057	g	W
8	BS 0008	(CAN) 0018	0028	8	H 0048	X 0058	h	X
9	HT 0009	EM 0019) 0029	9	I 0049	Y 0059	i	y
Α	LF	SUB 001A	☆	• • 003A	J 004A	Z	j	Z
В	(V T)	001B	+ 002B	• • • 003B	K	005B	k	{ 007B
С	FF 000C	FS 001C	9 002C	O03C	L 004C	005C	1 006C	007C
D	CR 000D	(GS)		 003D	M 004D	005D	m 006D	}
Ε	SO 000E	001E	• 002E	> 003E	N 004E	∧ 005E	n 006E	~
F	SI 000F	[US]	002F	? 003F	O 004F	005F	O 006F	DEL 007F

C0 controls			001B	ESC	<control></control>
Alias names are those for ISO/IEC 6429:1992. Commonly used					= ESCAPE
alternative aliases are also shown.			001C	FS	<pre><control> = INFORMATION SEPARATOR FOUR</control></pre>
0000	NUL	<control></control>			= file separator (FS)
0001	soн	= NULL <control></control>	001D	GS	<control></control>
0001	1	= START OF HEADING			= INFORMATION SEPARATOR THREE = group separator (GS)
0002	STX	<control></control>	001E	RS	<pre><control></control></pre>
0003	ETX	= START OF TEXT <control></control>			= INFORMATION SEPARATOR TWO
0000		= END OF TEXT	001F	us	= record separator (RS) <control></control>
0004	ЕОТ	<control></control>	0011		= INFORMATION SEPARATOR ONE
0005	ENQ	= END OF TRANSMISSION <control></control>			= unit separator (US)
0000	11	= ENQUIRY		-	ctuation and symbols
0006	ACK	<control></control>			SO/IEC 646.
0007	BEL	= ACKNOWLEDGE <control></control>	0020	SP	• sometimes considered a control code
0001		= BELL			• other space characters: 2000 [89] —200A [84]
8000	BS	<control></control>			→ 00A0 NB no-break space
0009	нт	= BACKSPACE <control></control>			→ 200B F zero width space
0003	1222	= CHARACTER TABULATION			→ 2060 www word joiner → 3000 sp ideographic space
	r1	= horizontal tabulation (HT), tab			→ FEFF Syst zero width no-break space
000A	LF	<control> = LINE FEED (LF)</control>	0021	!	EXCLAMATION MARK
		= new line (NL), end of line (EOL)			= factorial = bang
000B	VT	<control></control>			→ 00A1; inverted exclamation mark
		= LINE TABULATION = vertical tabulation (VT)			→ 01C3! latin letter retroflex click
000C	FF	<control></control>			→ 203C!! double exclamation mark → 203D ? interrobang
0000	,	= FORM FEED (FF)			→ 2762 \$\frac{1}{2}\$ heavy exclamation mark ornament
000D	CR	<control> = CARRIAGE RETURN (CR)</control>	0022	"	QUOTATION MARK
000E	so	<control></control>			 neutral (vertical), used as opening or closing quotation mark
		= SHIFT OUT			• preferred characters in English for paired
		 known as LOCKING-SHIFT ONE in 8-bit environments 			quotation marks are 201C " & 201D "
000F	SI	<control></control>			• 05F4 " is preferred for gershayim when writing Hebrew
		= SHIFT IN			→ 02BA " modifier letter double prime
		 known as LOCKING-SHIFT ZERO in 8-bit environments 			→ 030B ő combining double acute accent
0010	DLE	<control></control>			→ 030E [†] combining double vertical line above → 05F4 ″ hebrew punctuation gershayim
0011	[204]	= DATA LINK ESCAPE			→ 2033 " double prime
0011	DC1	<control> = DEVICE CONTROL ONE</control>			→ 3003 ″ ditto mark
0012	DC2	<control></control>	0023	#	NUMBER SIGN = pound sign, hash, crosshatch, octothorpe
0013	[DC2]	= DEVICE CONTROL TWO <control></control>			⇒ 2114 % b bar symbol
0013	DC3	= DEVICE CONTROL THREE			→ 2317 # viewdata square
0014	DC4	<control></control>			→ 266F # music sharp sign
0015	NAK	= DEVICE CONTROL FOUR <control></control>			~ 0023 FE0E text style ~ 0023 FE0F emoji style
0013	[NAK]	= NEGATIVE ACKNOWLEDGE	0024	\$	DOLLAR SIGN
0016	SYN	<control></control>			= milréis, escudo
0017		= SYNCHRONOUS IDLE			• used for many peso currencies in Latin America and elsewhere
0017	ЕТВ	<control> = END OF TRANSMISSION BLOCK</control>			• glyph may have one or two vertical bars
0018	CAN	<control></control>			 other currency symbol characters start at
0040	[22]	= CANCEL			20A0 € → 00A4 ¤ currency sign
0019	ЕМ	<control> = END OF MEDIUM</control>			→ 20B1 P peso sign
001A	SUB	<control></control>			→ 1F4B2 \$ heavy dollar sign
		= SUBSTITUTE			
		→ FFFD � replacement character			

0025	07	DEDCENT CICN	0025	,	COLIDITE
0025	%	PERCENT SIGN → 066A ½ arabic percent sign	002F	/	SOLIDUS = slash, virgule
		→ 2030 ‰ per mille sign			→ 01C0 latin letter dental click
		→ 2031 ‱ per time sign			→ 0338 Ø combining long solidus overlay
		→ 2052 % commercial minus sign			→ 2044/ fraction slash
0026	&	AMPERSAND			→ 2215 / division slash
		→ 204A 7 tironian sign et	ASCII	diai	its
		→ 214B 🎖 turned ampersand	0030	0	DIGIT ZERO
		→ 1F674 & heavy ampersand ornament	0000	U	~ 0030 FE0E text style
0027	'	APOSTROPHE			~ 0030 FE0F emoji style
		= apostrophe-quote (1.0)	0031	1	DIGIT ONE
		= APL quote			~ 0031 FE0E text style
		neutral (vertical) glyph with mixed usage2019 ' is preferred for apostrophe			~ 0031 FE0F emoji style
		• preferred characters in English for paired	0032	2	DIGIT TWO
		quotation marks are 2018 ' & 2019 '			~ 0032 FE0E text style
		• 05F3 ' is preferred for geresh when writing		_	~ 0032 FE0F emoji style
		Hebrew	0033	3	DIGIT THREE
		→ 02B9 ′ modifier letter prime			~ 0033 FE0E text style
		→ 02BC' modifier letter apostrophe	0034	4	~ 0033 FE0F emoji style DIGIT FOUR
		→ 02C8 ' modifier letter vertical line	0034	4	~ 0034 FE0E text style
		→ 0301 ⁶ combining acute accent → 05F3 ′ hebrew punctuation geresh			~ 0034 FE0F emoji style
		→ 2032 ' prime	0035	5	DIGIT FIVE
		→ A78C' latin small letter saltillo			~ 0035 FE0E text style
0028	(LEFT PARENTHESIS			~ 0035 FE0F emoji style
	`	= opening parenthesis (1.0)	0036	6	DIGIT SIX
0029)	RIGHT PARENTHESIS			~ 0036 FE0E text style
		= closing parenthesis (1.0)		_	~ 0036 FE0F emoji style
		see discussion on semantics of paired bracketing sharesters	0037	7	DIGIT SEVEN
002A	*	bracketing characters ASTERISK			~ 0037 FE0E text style
002A		= star (on phone keypads)	0038	8	~ 0037 FE0F emoji style DIGIT EIGHT
		→ 066D * arabic five pointed star	0036	0	~ 0038 FE0E text style
		→ 204E * low asterisk			~ 0038 FE0F emoji style
		→ 2217 * asterisk operator	0039	9	DIGIT NINE
		→ 26B9 * sextile			~ 0039 FE0E text style
		→ 2731 * heavy asterisk			~ 0039 FE0F emoji style
002B	+		ASCII	pun	ectuation and symbols
0000		→ 2795 + heavy plus sign	003A	:	COLON
002C	,	COMMA = decimal separator	000/1	•	also used to denote division or scale; for that
		→ 060C · arabic comma			mathematical use 2236: is preferred
		\rightarrow 201A, single low-9 quotation mark			→ 0589: armenian full stop
		→ 2E41, reversed comma			→ 05C3: hebrew punctuation sof pasuq
		→ 3001 , ideographic comma			→ 2236: ratio
002D	-	HYPHEN-MINUS	0000		→ A789: modifier letter colon
		= hyphen or minus sign	003B	;	SEMICOLON
		• used for either hyphen or minus sign			 this, and not 037E;, is the preferred character for 'Greek question mark'
		→ 2010 - hyphen			→ 037E; greek question mark
		→ 2011 non-breaking hyphen → 2012 — figure dash			→ 061B farabic semicolon
		\rightarrow 2012 — figure dash \rightarrow 2013 — en dash			→ 204F; reversed semicolon
		→ 2043 • hyphen bullet	003C	<	LESS-THAN SIGN
		→ 2212 – minus sign			→ 2039 < single left-pointing angle quotation
		→ 10191 - roman uncia sign			mark
002E		FULL STOP			→ 2329 〈 left-pointing angle bracket
		= period, dot, decimal point			→ 27E8 〈 mathematical left angle bracket → 3008 〈 left angle bracket
		may be rendered as a raised decimal point in			- JUUU \ IEIL AIIYIE DIACKEL
		old style numbers → 06D4 - arabic full stop			
		\rightarrow 2E3C \star stenographic full stop			
		→ 3002 • ideographic full stop			
		2.1.2.2			

003D	=	EQUALS SIGN	0051	Q	LATIN CAPITAL LETTER Q
		• other related characters: 2241 ≈ -2263 ≡	0050	ъ	→ 211A Q double-struck capital q
		→ 2260 ≠ not equal to → 2261 ≡ identical to	0052	K	LATIN CAPITAL LETTER R
		\rightarrow 2201 = Identical to \rightarrow A78A = modifier letter short equals sign			→ 211B \Re script capital r → 211C \Re black-letter capital r
		\rightarrow 10190 = roman sextans sign			\rightarrow 211D \mathbb{R} double-struck capital r
003E	>	GREATER-THAN SIGN	0053	S	LATIN CAPITAL LETTER S
****		→ 203A > single right-pointing angle quotation	0054		LATIN CAPITAL LETTER T
		mark	0055	U	LATIN CAPITAL LETTER U
		→ 232A 〉 right-pointing angle bracket	0056	V	LATIN CAPITAL LETTER V
		→ 27E9 \ mathematical right angle bracket			ightarrow 2164 V roman numeral five
003F	?	→ 3009 〉 right angle bracket QUESTION MARK	0057		LATIN CAPITAL LETTER W
0031	4	→ 00BF; inverted question mark	0058	X	
		→ 037E; greek question mark	0059 005A	Y	LATIN CAPITAL LETTER Y LATIN CAPITAL LETTER Z
		→ 061F sarabic question mark	UUSA	Z	\rightarrow 2124 \mathbb{Z} double-struck capital z
		→ 203D ? interrobang			→ 2124 2 double struck capital z → 2128 3 black-letter capital z
		→ 2048 ?! question exclamation mark	۸۶۲۱۱	nun	ctuation and symbols
00.40		→ 2049 !? exclamation question mark		· -	•
0040	@	COMMERCIAL AT = at sign	005B	L	LEFT SQUARE BRACKET = opening square bracket (1.0)
		9			• other bracket characters: 27E6 [—27EB) ,
		e Latin alphabet			2983 { -2998) , 3008 〈 -301B]
0041		LATIN CAPITAL LETTER A	005C	/	REVERSE SOLIDUS
0042	В	LATIN CAPITAL LETTER B → 212C ℬ script capital b			= backslash
0043	C	LATIN CAPITAL LETTER C			→ 20E5 \(\) combining reverse solidus overlay → 2216 \(\) set minus
		→ 2102 C double-struck capital c	005D	1	RIGHT SQUARE BRACKET
		→ 212D © black-letter capital c	0002	,	= closing square bracket (1.0)
0044	D	LATIN CAPITAL LETTER D	005E	٨	CIRCUMFLEX ACCENT
0045	E	LATIN CAPITAL LETTER E			• this is a spacing character
		\rightarrow 2107 ε euler constant			→ 02C4 ^ modifier letter up arrowhead
0046	F	→ 2130 % script capital e LATIN CAPITAL LETTER F			→ 02C6 ^ modifier letter circumflex accent
0040	Г	→ 2131 F script capital f			→ 0302 ˆ combining circumflex accent
		\rightarrow 2132 \pm turned capital f			→ 2038 , caret → 2303 ^ up arrowhead
0047	G	LATIN CAPITAL LETTER G	005F		LOW LINE
0048	Η	LATIN CAPITAL LETTER H		_	= spacing underscore (1.0)
		$ ightarrow$ 210B ${\mathscr H}$ script capital h			• this is a spacing character
		\rightarrow 210C \mathfrak{H} black-letter capital h			→ 02CD _ modifier letter low macron
0049	I	→ 210D H double-struck capital h			→ 0331 o combining macron below → 0332 o combining low line
0049	1	• Turkish and Azerbaijani use 0131 1 for			\rightarrow 0332 \subseteq Combining low line \rightarrow 2017 \subseteq double low line
		lowercase	0060	`	GRAVE ACCENT
		$ ightarrow$ 0130 $\dot{\mathbf{I}}$ latin capital letter i with dot above			• this is a spacing character
		ightarrow 0406 $ m I$ cyrillic capital letter byelorussian-			→ 02CB` modifier letter grave accent
		ukrainian i → 04C0 I cyrillic letter palochka			→ 0300 combining grave accent
		\rightarrow 04C0 T Cyrillic letter palocrika \rightarrow 2110 $\mathscr S$ script capital i			\rightarrow 2035 ' reversed prime
		→ 2111 3 black-letter capital i		rcas	e Latin alphabet
		→ 2160 I roman numeral one	0061	a	LATIN SMALL LETTER A
004A	J	LATIN CAPITAL LETTER J	0062	b	LATIN SMALL LETTER B
004B	K	LATIN CAPITAL LETTER K	0063 0064	c	LATIN SMALL LETTER C
00.40		→ 212A K kelvin sign	0065	d e	LATIN SMALL LETTER D LATIN SMALL LETTER E
004C	L	LATIN CAPITAL LETTER L	0003	C	\rightarrow 212E \rightarrow estimated symbol
004D	м	→ 2112 ℒ script capital l LATIN CAPITAL LETTER M			\rightarrow 212F e script small e
00 4 D	141	\rightarrow 2133 \mathcal{M} script capital m	0066	f	LATIN SMALL LETTER F
004E	N	LATIN CAPITAL LETTER N	0067	g	LATIN SMALL LETTER G
•		→ 2115 N double-struck capital n			\rightarrow 0261 g latin small letter script g
004F	0	LATIN CAPITAL LETTER O	0000	1.	\rightarrow 210A q script small g
0050	P	LATIN CAPITAL LETTER P	0068	h	LATIN SMALL LETTER H
		→ 2119 P double-struck capital p			 → 04BB h cyrillic small letter shha → 210E h planck constant
					, 210E n planek constant

0069

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0069
       i LATIN SMALL LETTER I
            ullet Turkish and Azerbaijani use 0130 \dot{\mathbf{I}} for
             uppercase
            → 0131 1 latin small letter dotless i
            \rightarrow 1D6A4 \iota mathematical italic small dotless i
       j LATIN SMALL LETTER J
006A
            \rightarrow 0237 1 latin small letter dotless j
            → 1D6A5 1 mathematical italic small dotless j
006B
           LATIN SMALL LETTER K
       k
006C
       1
           LATIN SMALL LETTER L
            \rightarrow 2113 \ell script small I

ightarrow 1D4C1 \ell mathematical script small I
006D
       m LATIN SMALL LETTER M
006E
           LATIN SMALL LETTER N
            \rightarrow 207F <sup>n</sup> superscript latin small letter n
006F
           LATIN SMALL LETTER O
            \rightarrow 2134 \alpha script small o
0070
           LATIN SMALL LETTER P
0071
       q
           LATIN SMALL LETTER Q
0072
            LATIN SMALL LETTER R
       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
           LATIN SMALL LETTER X
       X
0079
           LATIN SMALL LETTER Y
       y
007A
           LATIN SMALL LETTER Z
            \rightarrow 01B6 \mathbf{z} 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 l latin letter dental click
            → 05C01 hebrew punctuation paseq
            → 2223 | divides
            → 2758 I light vertical bar
007D
           RIGHT CURLY BRACKET
            = closing curly bracket (1.0)
            = right brace
007E ~ TILDE
            • this is a spacing character
            → 02DC ~ small tilde
            \rightarrow 0303 \tilde{\circ} combining tilde
            \rightarrow 2053 \sim swung dash
            → 223C ~ tilde operator

ightarrow FF5E \sim fullwidth tilde
```

Control character
007F | Control >

= DELETE

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