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.*

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-5.2/ 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 Standard, Version 5.2, online at http://www.unicode.org/versions/Unicode5.2.0/, 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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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]	DLE	SP 0020	0030	<u>@</u>	P 0050	0060	p
1	SOH 0001	DC1	0021	1	A 0041	Q 0051	a 0061	q
2	STX 0002	DC2 0012	0022	2	B	R 0052	b	1
3	[ETX]	DC3	# 0023	3	C	S 0053	C	S
4	(EOT)	DC4	\$	4	D 0044	T	d 0064	t
5	ENQ 0005	NAK 0015	% 0025	5	E 0045	U 0055	e 0065	u
6	ACK 0006	SYN 0016	& 0026	6	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 0078
9	HT 0009	EM 0019) 0029	9	I 0049	Y 0059	i 0069	y
Α	LF	SUB 001A	*	• • 003A	J 004A	Z 005A	j	Z
В	(V T)	ESC 001B	+	• • • • • •	K		k	{ 007B
С	FF 000C	001C	9 002C	O03C	L 004C	005C	1 006C	007C
D	CR 000D	(GS)	002D		M 004D	005D	m 006D	} 007D
E	SO	001E	• 002E	> 003E	N 004E	∧ 005E	n 006E	~
F	(SI)	001F	/ 002F	? 003F	O 004F	005F	O	DEL 007F

	_		0044	r1		
C0 controls			001A	SUB	<control> = SUBSTITUTE</control>	
Alias names are those for ISO/IEC 6429:1992. Commonly used alternative aliases are also shown.					→ FFFD ♦ replacement character	
0000 NUL <control></control>			001B	ESC	<control></control>	
		= NULL	001C	[]	= ESCAPE	
0001	зон	<control></control>	0010	FS	<pre><control> = INFORMATION SEPARATOR FOUR</control></pre>	
0002	etvi	= START OF HEADING <control></control>			= file separator (FS)	
0002	STX	= START OF TEXT	001D	GS	<control></control>	
0003	ETX	<control></control>			= INFORMATION SEPARATOR THREE = group separator (GS)	
	,	= END OF TEXT	001E	RS	<control></control>	
0004	ЕОТ	<control> = END OF TRANSMISSION</control>			= INFORMATION SEPARATOR TWO	
0005	ENQ	<control></control>	001F	us	= record separator (RS)	
		= ENQUIRY	0016	[05]	<control> = INFORMATION SEPARATOR ONE</control>	
0006	ACK	<control></control>			= unit separator (US)	
0007	BEL	= ACKNOWLEDGE <control></control>	ASCII	ASCII punctuation and symbols		
0001		= BELL	Based on ISO/IEC 646.			
8000	BS	<control></control>	0020	SP	SPACE	
0000	r1	= BACKSPACE			• sometimes considered a control code	
0009	нт	<pre><control> = CHARACTER TABULATION</control></pre>			• other space characters: 2000 PP —200A PP —200A	
		= horizontal tabulation (HT), tab			→ 00A0 no-break space → 200B zero width space	
000A	LF	<control></control>			→ 2060 www word joiner	
		= LINE FEED (LF) = new line (NL), end of line (EOL)			→ 3000 🔛 ideographic space	
000B	VT	<control></control>	0004		→ FEFF zero width no-break space	
*****		= LINE TABULATION	0021	!	EXCLAMATION MARK = factorial	
0000	r1	= vertical tabulation (VT)			= bang	
000C	FF	<control> = FORM FEED (FF)</control>			→ 00A1 ; inverted exclamation mark	
000D	CR	<control></control>			→ 01C3! latin letter retroflex click → 203C!! double exclamation mark	
	,	= CARRIAGE RETURN (CR)			→ 203D ? interrobang	
000E	so	<control> = SHIFT OUT</control>			→ 2762 Theavy exclamation mark ornament	
		• known as LOCKING-SHIFT ONE in 8-bit	0022	"	QUOTATION MARK	
		environments			 neutral (vertical), used as opening or closing quotation mark 	
000F	SI	<control></control>			• preferred characters in English for paired	
		= SHIFT IN • known as LOCKING-SHIFT ZERO in 8-bit			quotation marks are 201C " & 201D "	
		environments			→ 02BA " modifier letter double prime	
0010	DLE	<control></control>			→ 030B ő combining double acute accent → 030E b combining double vertical line above	
0011	DC1	= DATA LINK ESCAPE <control></control>			→ 2033 " double prime	
0011		= DEVICE CONTROL ONE			→ 3003 " ditto mark	
0012	DC2	<control></control>	0023	#	NUMBER SIGN	
0040	r1	= DEVICE CONTROL TWO			= pound sign, hash, crosshatch, octothorpe → 2114 G I b bar symbol	
0013	DC3	<pre><control> = DEVICE CONTROL THREE</control></pre>			\rightarrow 266F \sharp music sharp sign	
0014	DC4	<control></control>	0024	\$	DOLLAR SIGN	
		= DEVICE CONTROL FOUR			= milreis, escudo	
0015	NAK	<control></control>			glyph may have one or two vertical barsother currency symbol characters:	
0016	SYN	= NEGATIVE ACKNOWLEDGE <control></control>			20A0 € —20B5 C	
		= SYNCHRONOUS IDLE			→ 00A4 ¤ currency sign	
0017	ЕТВ	<control></control>	0025	%	PERCENT SIGN	
0018	CAN	= END OF TRANSMISSION BLOCK <control></control>			→ 066A / arabic percent sign → 2030 ‰ per mille sign	
0010	CAN	= CANCEL			\rightarrow 2030 % per time sign \rightarrow 2031 ‰ per ten thousand sign	
0019	EM	<control></control>			→ 2052 % commercial minus sign	
		= END OF MEDIUM	0026	&	AMPERSAND	
					→ 204A 🤊 tironian sign et → 214B 🎖 turned ampersand	
					· 2170 · o tuilled allipeisalld	

0027	,	APOSTROPHE	0039	9	DIGIT NINE
		= apostrophe-quote (1.0)	ASCII	bun	ctuation and symbols
		= APL quote	003A	: :	COLON
		 neutral (vertical) glyph with mixed usage 	003A	•	
		 2019 ' is preferred for apostrophe 			→ 0589: armenian full stop
		 preferred characters in English for paired 			→ 05C3: hebrew punctuation sof pasuq
		quotation marks are 2018 ' & 2019 '			→ 2236: ratio
		→ 02B9 ′ modifier letter prime			→ A789: modifier letter colon
		→ 02BC' modifier letter apostrophe	003B	;	SEMICOLON
		→ 02C8 ' modifier letter vertical line			• this, and not 037E;, is the preferred character
		→ 0301 ć combining acute accent			for 'Greek question mark'
		→ 2032 ' prime			→ 037E; greek question mark
		→ A78C' latin small letter saltillo			→ 061B : arabic semicolon
0028	(LEFT PARENTHESIS			→ 204F; reversed semicolon
0020	(= opening parenthesis (1.0)	003C	<	LESS-THAN SIGN
0029)	RIGHT PARENTHESIS			→ 2039 < single left-pointing angle quotation
0023	,	= closing parenthesis (1.0)			mark
		• see discussion on semantics of paired			→ 2329 〈 left-pointing angle bracket
		bracketing characters			→ 27E8 〈 mathematical left angle bracket
002A	*	ASTERISK			→ 3008 〈 left angle bracket
002A		= star (on phone keypads)	003D	=	EQUALS SIGN
			0000		• other related characters: 2241 ≁ −2263 ≡
		→ 066D * arabic five pointed star			\rightarrow 2260 ≠ not equal to
		→ 204E * low asterisk			
		→ 2217 * asterisk operator			\rightarrow 2261 ≡ identical to
		→ 26B9 * sextile			→ A78A = modifier letter short equals sign
		→ 2731 * heavy asterisk	0005		→ 10190 = roman sextans sign
002B	+	PLUS SIGN	003E	>	GREATER-THAN SIGN
002C	,	COMMA			→ 203A > single right-pointing angle quotation
		= decimal separator			mark
		→ 060C · arabic comma			→ 232A 〉 right-pointing angle bracket
		→ 201A ,single low-9 quotation mark			→ 27E9 〉 mathematical right angle bracket
		→ 3001 、 ideographic comma			→ 3009 〉 right angle bracket
002D	-	HYPHEN-MINUS	003F	?	QUESTION MARK
		= hyphen or minus sign			→ 00BF ¿ inverted question mark
		• used for either hyphen or minus sign			→ 037E; greek question mark
		→ 2010 - hyphen			→ 061F sarabic question mark
		→ 2011 non-breaking hyphen			→ 203D ? interrobang
		→ 2012 — figure dash			→ 2048 ?! question exclamation mark
		→ 2013 — en dash			→ 2049 !? exclamation question mark
		→ 2212 — minus sign	0040	@	COMMERCIAL AT
		→ 10191 — roman uncia sign		C	= at sign
002E		FULL STOP			5
002L	•	= period, dot, decimal point			e Latin alphabet
		• may be rendered as a raised decimal point in	0041	Α	LATIN CAPITAL LETTER A
		old style numbers	0042	В	LATIN CAPITAL LETTER B
		→ 06D4 - arabic full stop			\rightarrow 212C \mathscr{B} script capital b
		→ 3002 。 ideographic full stop	0043	C	LATIN CAPITAL LETTER C
002F	/	SOLIDUS			→ 2102 C double-struck capital c
0021	/	= slash, virgule			→ 212D c black-letter capital c
		→ 01C0 latin letter dental click	0044	D	LATIN CAPITAL LETTER D
			0045	Ē	LATIN CAPITAL LETTER E
		→ 0338 Ø combining long solidus overlay		_	→ 2107 E euler constant
		→ 2044/ fraction slash			\rightarrow 2130 \mathscr{E} script capital e
		→ 2215 / division slash	0046	F	LATIN CAPITAL LETTER F
ASCII	digi	ts	00+0	1	\rightarrow 2131 \mathscr{F} script capital f
0030	0	DIGIT ZERO			→ 2132 H turned capital f
0031	1	DIGIT ONE	0047	\sim	· ·
0032	2	DIGIT TWO	0047	G	LATIN CAPITAL LETTER G
0032	3	DIGIT THREE	0048	Н	LATIN CAPITAL LETTER H
					\rightarrow 2108 \mathscr{H} script capital h
0034	4	DIGIT FOUR			$ ightarrow$ 210C ${\mathfrak H}$ black-letter capital h
0035	5	DIGIT FIVE			→ 210D H double-struck capital h
0036	6	DIGIT SIX			
0037	7	DIGIT SEVEN			
0038	8	DIGIT EIGHT			

00.40			0055			
0049	I	LATIN CAPITAL LETTER I	005F	_	LOW LINE	
		Turkish and Azerbaijani use 0131 1 for lowercase			spacing underscore (1.0)this is a spacing character	
		\rightarrow 0130 $\dot{\mathbf{I}}$ latin capital letter i with dot above			→ 02CD _ modifier letter low macron	
		→ 0406 I cyrillic capital letter byelorussian-			→ 0331 combining macron below	
		ukrainian i			→ 0332 o combining low line	
		$ ightarrow$ 04C0 ${f I}$ cyrillic letter palochka			→ 2017 _ double low line	
		→ 2110 9 script capital i	0060	`	GRAVE ACCENT	
		$ ightarrow$ 2111 $rac{\Im}{}$ black-letter capital i			• this is a spacing character	
	_	→ 2160 I roman numeral one			→ 02CB` modifier letter grave accent	
004A	J	LATIN CAPITAL LETTER J			→ 0300 $$ combining grave accent	
004B	K	LATIN CAPITAL LETTER K			→ 2035 ' reversed prime	
004C	T	LATIN CAPITAL LETTER L	12A K kelvin sign			
0040	L	\rightarrow 2112 \mathscr{L} script capital	0061	a	LATIN SMALL LETTER A	
004D	М	LATIN CAPITAL LETTER M	0062	b	LATIN SMALL LETTER B	
00+0	171	→ 2133 M script capital m	0063	c	LATIN SMALL LETTER C	
004E	N	LATIN CAPITAL LETTER N	0064	d	LATIN SMALL LETTER D	
	- '	→ 2115 N double-struck capital n	0065	e	LATIN SMALL LETTER E	
004F	O	LATIN CAPITAL LETTER O			$ ightarrow$ 212E ${f e}$ estimated symbol	
0050	P	LATIN CAPITAL LETTER P		_	\rightarrow 212F e script small e	
		→ 2119 P double-struck capital p	0066	f	LATIN SMALL LETTER F	
0051	Q	LATIN CAPITAL LETTER Q	0067	g	LATIN SMALL LETTER G	
		→ 211A Q double-struck capital q			→ 0261 g latin small letter script g	
0052	R	LATIN CAPITAL LETTER R	0000	1.	\rightarrow 210A g script small g	
		\rightarrow 211B \Re script capital r	0068	h	LATIN SMALL LETTER H	
		$ ightarrow$ 211C $ m \mathfrak{R}$ black-letter capital r			→ 04BB h cyrillic small letter shha	
	~	→ 211D R double-struck capital r	0069	i	→ 210E h planck constant LATIN SMALL LETTER I	
0053	S	LATIN CAPITAL LETTER S	0003	1	• Turkish and Azerbaijani use 0130 İ for	
0054	T	LATIN CAPITAL LETTER T			uppercase	
0055	U	LATIN CAPITAL LETTER U			→ 0131 1 latin small letter dotless i	
0056	V	LATIN CAPITAL LETTER V			\rightarrow 1D6A4 \imath mathematical italic small dotless i	
0057	337	→ 2164 V roman numeral five	006A	j	LATIN SMALL LETTER J	
0057 0058		LATIN CAPITAL LETTER W LATIN CAPITAL LETTER X			\rightarrow 0237 \mathfrak{j} latin small letter dotless j	
0059	Y	LATIN CAPITAL LETTER X LATIN CAPITAL LETTER Y			$ ightarrow$ 1D6A5 \jmath mathematical italic small dotless j	
0059 005A	Ż	LATIN CAPITAL LETTER T	006B	k	LATIN SMALL LETTER K	
0007		→ 2124 Z double-struck capital z	006C	1	LATIN SMALL LETTER L	
		→ 2128 3 black-letter capital z			→ 2113 ℓ script small l	
۸۵۵۱۱			0000		→ 1D4C1 / mathematical script small I	
	٠.	ctuation and symbols	006D 006E		LATIN SMALL LETTER M	
005B	L	LEFT SQUARE BRACKET	000E	n	LATIN SMALL LETTER N	
		 opening square bracket (1.0) other bracket characters: 27E6 [-27EB], 	006F	o	→ 207F ⁿ superscript latin small letter n LATIN SMALL LETTER O	
		2983 { -2998) , 3008 〈 -301B]	0001	U	\rightarrow 2134 α script small o	
005C	\	REVERSE SOLIDUS	0070	р	LATIN SMALL LETTER P	
		= backslash	0071	q	LATIN SMALL LETTER Q	
		→ 20E5 🐧 combining reverse solidus overlay	0072	r	LATIN SMALL LETTER R	
		→ 2216 × set minus	0073	S	LATIN SMALL LETTER S	
005D]	RIGHT SQUARE BRACKET	0074	t	LATIN SMALL LETTER T	
		= closing square bracket (1.0)	0075	u	LATIN SMALL LETTER U	
005E	٨	CIRCUMFLEX ACCENT	0076	v	LATIN SMALL LETTER V	
		• this is a spacing character	0077	W	LATIN SMALL LETTER W	
		→ 02C4 ^ modifier letter up arrowhead	0078	X	LATIN SMALL LETTER X	
		→ 02C6 ^ modifier letter circumflex accent → 0302 ô combining circumflex accent	0079	y	LATIN SMALL LETTER Y	
			007A	Z	LATIN SMALL LETTER Z	
		→ 2038 A caret → 2303 A up arrowhead			$ ightarrow$ 01B6 ${f z}$ latin small letter z with stroke	
		2555 ap anomicad	ASCII	pun	ctuation 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 I divides
- → 2758 | light vertical bar

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
- ightarrow FF5E \sim fullwidth tilde

Control character

007F | Control> = DELETE