

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 6.0*.

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-6.0/> for charts showing only the characters added in Unicode 6.0. See <http://www.unicode.org/Public/6.0.0/charts/> for a complete archived file of character code charts for Unicode 6.0.

Disclaimer

These charts are provided as the online reference to the character contents of the Unicode Standard, Version 6.0 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 6.0, online at <http://www.unicode.org/versions/Unicode6.0.0/>, 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.

Fonts

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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 0010	SP 0020	0 0030	@ 0040	P 0050	` 0060	p 0070
1	SOH 0001	DC1 0011	! 0021	1 0031	A 0041	Q 0051	a 0061	q 0071
2	STX 0002	DC2 0012	" 0022	2 0032	B 0042	R 0052	b 0062	r 0072
3	ETX 0003	DC3 0013	# 0023	3 0033	C 0043	S 0053	c 0063	s 0073
4	EOT 0004	DC4 0014	\$ 0024	4 0034	D 0044	T 0054	d 0064	t 0074
5	ENQ 0005	NAK 0015	% 0025	5 0035	E 0045	U 0055	e 0065	u 0075
6	ACK 0006	SYN 0016	& 0026	6 0036	F 0046	V 0056	f 0066	v 0076
7	BEL 0007	ETB 0017	' 0027	7 0037	G 0047	W 0057	g 0067	w 0077
8	BS 0008	CAN 0018	(0028	8 0038	H 0048	X 0058	h 0068	x 0078
9	HT 0009	EM 0019	) 0029	9 0039	I 0049	Y 0059	i 0069	y 0079
A	LF 000A	SUB 001A	* 002A	: 003A	J 004A	Z 005A	j 006A	z 007A
B	VT 000B	ESC 001B	+ 002B	; 003B	K 004B	[005B	k 006B	{ 007B
C	FF 000C	FS 001C	, 002C	< 003C	L 004C	\ 005C	l 006C	| 007C
D	CR 000D	GS 001D	- 002D	= 003D	M 004D	] 005D	m 006D	} 007D
E	SO 000E	RS 001E	. 002E	> 003E	N 004E	^ 005E	n 006E	~ 007E
F	SI 000F	US 001F	/ 002F	? 003F	O 004F	_ 005F	o 006F	DEL 007F

C0 controls

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

0000		<control> = NULL	001B		<control> = ESCAPE
0001		<control> = START OF HEADING	001C		<control> = INFORMATION SEPARATOR FOUR = file separator (FS)
0002		<control> = START OF TEXT	001D		<control> = INFORMATION SEPARATOR THREE = group separator (GS)
0003		<control> = END OF TEXT	001E		<control> = INFORMATION SEPARATOR TWO = record separator (RS)
0004		<control> = END OF TRANSMISSION	001F		<control> = INFORMATION SEPARATOR ONE = unit separator (US)
0005		<control> = ENQUIRY	ASCII punctuation and symbols		
0006		<control> = ACKNOWLEDGE	<i>Based on ISO/IEC 646.</i>		
0007		<control> = BELL	0020		SPACE
0008		<control> = BACKSPACE	<ul style="list-style-type: none"> • sometimes considered a control code • other space characters: 2000 –200A  		
0009		<control> = CHARACTER TABULATION = horizontal tabulation (HT), tab	<ul style="list-style-type: none"> → 00A0  no-break space → 200B  zero width space → 2060  word joiner → 3000  ideographic space → FEFF  zero width no-break space 		
000A		<control> = LINE FEED (LF) = new line (NL), end of line (EOL)	0021		EXCLAMATION MARK
000B		<control> = LINE TABULATION = vertical tabulation (VT)	<ul style="list-style-type: none"> = factorial = bang → 00A1 ¡ inverted exclamation mark → 01C3 ! latin letter retroflex click → 203C !! double exclamation mark → 203D ? interrobang → 2762 ͮ heavy exclamation mark ornament 		
000C		<control> = FORM FEED (FF)	0022		QUOTATION MARK
000D		<control> = CARRIAGE RETURN (CR)	<ul style="list-style-type: none"> • 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 Ɱ combining double acute accent → 030E ̈́ combining double vertical line above → 2033 ” double prime → 3003 ” ditto mark 		
000E		<control> = SHIFT OUT	<ul style="list-style-type: none"> • known as LOCKING-SHIFT ONE in 8-bit environments 		
000F		<control> = SHIFT IN	0023		NUMBER SIGN
0010		<control> = DATA LINK ESCAPE	<ul style="list-style-type: none"> = pound sign, hash, crosshatch, octothorpe → 2114 ₣ | b bar symbol → 266F ♯ music sharp sign 		
0011		<control> = DEVICE CONTROL ONE	0024		DOLLAR SIGN
0012		<control> = DEVICE CONTROL TWO	<ul style="list-style-type: none"> = milreis, escudo • glyph may have one or two vertical bars • other currency symbol characters: 20A0 ₣ –20B8 ₧ → 00A4 Ɱ currency sign → 1F4B2 \$ heavy dollar sign 		
0013		<control> = DEVICE CONTROL THREE	0025		PERCENT SIGN
0014		<control> = DEVICE CONTROL FOUR	<ul style="list-style-type: none"> → 066A ٪ arabic percent sign → 2030 ‰ per mille sign → 2031 ‰ per ten thousand sign → 2052 ⅈ commercial minus sign 		
0015		<control> = NEGATIVE ACKNOWLEDGE	0026		AMPERSAND
0016		<control> = SYNCHRONOUS IDLE	<ul style="list-style-type: none"> → 204A ɀ tironian sign et → 214B ͡ turned ampersand 		
0017		<control> = END OF TRANSMISSION BLOCK			
0018		<control> = CANCEL			
0019		<control> = END OF MEDIUM			
001A		<control> = SUBSTITUTE → FFFD  replacement character			

0027	'	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 → 02C8 ¸ modifier letter vertical line → 0301 ˆ combining acute accent → 2032 ´ prime → A78C ¸ latin small letter saltillo
0028	(	LEFT PARENTHESIS = opening parenthesis (1.0)
0029	)	RIGHT PARENTHESIS = closing parenthesis (1.0) • see discussion on semantics of paired bracketing characters
002A	*	ASTERISK = star (on phone keypads) → 066D * arabic five pointed star → 204E * low asterisk → 2217 * asterisk operator → 26B9 * sextile → 2731 * heavy asterisk
002B	+	PLUS SIGN → 2795 + heavy plus sign
002C	,	COMMA = decimal separator → 060C ٫ arabic comma → 201A ٫ single low-9 quotation mark → 3001 ٫ ideographic comma
002D	-	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
002E	.	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
002F	/	SOLIDUS = slash, virgule → 01C0 ƚ latin letter dental click → 0338 ƚ combining long solidus overlay → 2044 / fraction slash → 2215 / division slash

ASCII digits

0030	0	DIGIT ZERO
0031	1	DIGIT ONE
0032	2	DIGIT TWO
0033	3	DIGIT THREE
0034	4	DIGIT FOUR
0035	5	DIGIT FIVE
0036	6	DIGIT SIX
0037	7	DIGIT SEVEN

0038	8	DIGIT EIGHT
0039	9	DIGIT NINE

ASCII punctuation and symbols

003A	:	COLON → 0589 ։ armenian full stop → 05C3 ։ hebrew punctuation sof pasuq → 2236 ։ ratio → A789 ։ modifier letter colon
003B	;	SEMICOLON • this, and not 037E ;, is the preferred character for 'Greek question mark' → 037E ; greek question mark → 061B ٫ arabic semicolon → 204F ٫ reversed semicolon
003C	<	LESS-THAN SIGN → 2039 ‹ single left-pointing angle quotation mark → 2329 ‹ left-pointing angle bracket → 27E8 ‹ mathematical left angle bracket → 3008 ‹ left angle bracket
003D	=	EQUALS SIGN • other related characters: 2241 ≠ —2263 ≡ → 2260 ≠ not equal to → 2261 ≡ identical to → A78A = modifier letter short equals sign → 10190 = roman sextans sign
003E	>	GREATER-THAN SIGN → 203A › single right-pointing angle quotation mark → 232A › right-pointing angle bracket → 27E9 › mathematical right angle bracket → 3009 › right angle bracket
003F	?	QUESTION MARK → 00BF ٫ inverted question mark → 037E ; greek question mark → 061F ٫ arabic question mark → 203D ٫ interrobang → 2048 ٫! question exclamation mark → 2049 ٫! exclamation question mark
0040	@	COMMERCIAL AT = at sign

Uppercase Latin alphabet

0041	A	LATIN CAPITAL LETTER A
0042	B	LATIN CAPITAL LETTER B → 212C ℬ script capital b
0043	C	LATIN CAPITAL LETTER C → 2102 Ɔ double-struck capital c → 212D Ɔ black-letter capital c
0044	D	LATIN CAPITAL LETTER D
0045	E	LATIN CAPITAL LETTER E → 2107 Ǝ euler constant → 2130 Ǝ script capital e
0046	F	LATIN CAPITAL LETTER F → 2131 Ƒ script capital f → 2132 Ƒ turned capital f
0047	G	LATIN CAPITAL LETTER G
0048	H	LATIN CAPITAL LETTER H → 210B Ƨ script capital h → 210C Ƨ black-letter capital h → 210D Ƨ double-struck capital h

0049	I	LATIN CAPITAL LETTER I	<ul style="list-style-type: none"> Turkish and Azerbaijani use 0131 ı for lowercase → 0130 İ latin capital letter i with dot above → 0406 І cyrillic capital letter byelorussian-ukrainian i → 04C0 И cyrillic letter palochka → 2110 ℐ script capital i → 2111 ⱦ black-letter capital i → 2160 I roman numeral one
004A	J	LATIN CAPITAL LETTER J	
004B	K	LATIN CAPITAL LETTER K	→ 212A Ⓚ kelvin sign
004C	L	LATIN CAPITAL LETTER L	→ 2112 ℒ script capital l
004D	M	LATIN CAPITAL LETTER M	→ 2133 ℳ script capital m
004E	N	LATIN CAPITAL LETTER N	→ 2115 ℕ double-struck capital n
004F	O	LATIN CAPITAL LETTER O	
0050	P	LATIN CAPITAL LETTER P	→ 2119 ℙ double-struck capital p
0051	Q	LATIN CAPITAL LETTER Q	→ 211A ℚ double-struck capital q
0052	R	LATIN CAPITAL LETTER R	→ 211B ℞ script capital r → 211C Ᵽ black-letter capital r → 211D ℞ double-struck capital r
0053	S	LATIN CAPITAL LETTER S	
0054	T	LATIN CAPITAL LETTER T	
0055	U	LATIN CAPITAL LETTER U	
0056	V	LATIN CAPITAL LETTER V	→ 2164 V roman numeral five
0057	W	LATIN CAPITAL LETTER W	
0058	X	LATIN CAPITAL LETTER X	
0059	Y	LATIN CAPITAL LETTER Y	
005A	Z	LATIN CAPITAL LETTER Z	→ 2124 ℤ double-struck capital z → 2128 Ɀ black-letter capital z

ASCII punctuation and symbols

005B	[	LEFT SQUARE BRACKET	= opening square bracket (1.0) <ul style="list-style-type: none"> other bracket characters: 27E6 ⌈ (−27EB ⌋), 2983 ⌈ (−2998 ⌋), 3008 ⌈ (−301B ⌋)
005C	\	REVERSE SOLIDUS	= backslash → 20E5 ↵ combining reverse solidus overlay → 2216 \ set minus
005D	]	RIGHT SQUARE BRACKET	= closing square bracket (1.0)
005E	^	CIRCUMFLEX ACCENT	<ul style="list-style-type: none"> this is a spacing character → 02C4 ^ modifier letter up arrowhead → 02C6 ^ modifier letter circumflex accent → 0302 ô combining circumflex accent → 2038 ^ caret → 2303 ⤴ up arrowhead

005F	_	LOW LINE	= spacing underscore (1.0) <ul style="list-style-type: none"> this is a spacing character → 02CD _ modifier letter low macron → 0331 ̣ combining macron below → 0332 ̤ combining low line → 2017 == double low line
0060	`	GRAVE ACCENT	<ul style="list-style-type: none"> this is a spacing character → 02CB ` modifier letter grave accent → 0300 ̀ combining grave accent → 2035 ˘ reversed prime

Lowercase Latin alphabet


0061	a	LATIN SMALL LETTER A	
0062	b	LATIN SMALL LETTER B	
0063	c	LATIN SMALL LETTER C	
0064	d	LATIN SMALL LETTER D	
0065	e	LATIN SMALL LETTER E	→ 212E e estimated symbol → 212F e script small e
0066	f	LATIN SMALL LETTER F	
0067	g	LATIN SMALL LETTER G	→ 0261 g latin small letter script g → 210A g script small g
0068	h	LATIN SMALL LETTER H	→ 04BB h cyrillic small letter shha → 210E h planck constant
0069	i	LATIN SMALL LETTER I	<ul style="list-style-type: none"> Turkish and Azerbaijani use 0130 İ for uppercase → 0131 ı latin small letter dotless i → 1D6A4 ı mathematical italic small dotless i
006A	j	LATIN SMALL LETTER J	→ 0237 j latin small letter dotless j → 1D6A5 j mathematical italic small dotless j
006B	k	LATIN SMALL LETTER K	
006C	l	LATIN SMALL LETTER L	→ 2113 ℓ script small l → 1D4C1 ℓ mathematical script small l
006D	m	LATIN SMALL LETTER M	
006E	n	LATIN SMALL LETTER N	→ 207F ⁿ superscript latin small letter n
006F	o	LATIN SMALL LETTER O	→ 2134 o script small o
0070	p	LATIN SMALL LETTER P	
0071	q	LATIN SMALL LETTER Q	
0072	r	LATIN SMALL LETTER 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	x	LATIN SMALL LETTER X	
0079	y	LATIN SMALL LETTER Y	
007A	z	LATIN SMALL LETTER Z	→ 01B6 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 | latin letter dental click
→ 05C0 | hebrew punctuation paseq
→ 2223 | 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
→ FF5E ~ fullwidth tilde

Control character

- 007F  **<control>**
= DELETE