

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 3.0*.

Disclaimer

The shapes of the reference glyphs used in these code charts are not prescriptive. Considerable variation is to be expected in actual fonts.

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 3.0* (ISBN 0-201-61633-5), as well as the Unicode Technical Reports and the Unicode Character Database, which are available online.

See <http://www.unicode.org/Public/UNIDATA/UnicodeCharacterDatabase.html> and <http://www.unicode.org/unicode/reports>

A thorough understanding of the information contained in these additional sources is required for a successful implementation.

Fonts

The fonts used in these charts were provided to the Unicode Consortium by a number of different font designers

See <http://www.unicode.org/unicode/uni2book/u2fonts.html> for a list.

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These charts are provided as a convenient online reference to the character contents of the Unicode Standard, Version 3.0. Proper Unicode support requires considerably more than just providing glyphs for characters, and requires consulting the Unicode Standard and the Unicode Technical Reports.

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The information in this file may be updated from time to time. The Unicode Consortium is not liable for errors or omissions in this excerpt file or the standard itself. Information on characters added to the Unicode Standard since the publication of version 3.0 as well as on characters currently being considered for addition to the Unicode Standard can be found on the Unicode website.

See <http://www.unicode.org/pending/pending.html> and <http://www.unicode.org/unicode/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 6429.

0000		<control> = NULL
0001		<control> = START OF HEADING
0002		<control> = START OF TEXT
0003		<control> = END OF TEXT
0004		<control> = END OF TRANSMISSION
0005		<control> = ENQUIRY
0006		<control> = ACKNOWLEDGE
0007		<control> = BELL
0008		<control> = BACKSPACE
0009		<control> = HORIZONTAL TABULATION
000A		<control> = LINE FEED
000B		<control> = VERTICAL TABULATION
000C		<control> = FORM FEED
000D		<control> = CARRIAGE RETURN
000E		<control> = SHIFT OUT
000F		<control> = SHIFT IN
0010		<control> = DATA LINK ESCAPE
0011		<control> = DEVICE CONTROL ONE
0012		<control> = DEVICE CONTROL TWO
0013		<control> = DEVICE CONTROL THREE
0014		<control> = DEVICE CONTROL FOUR
0015		<control> = NEGATIVE ACKNOWLEDGE
0016		<control> = SYNCHRONOUS IDLE
0017		<control> = END OF TRANSMISSION BLOCK
0018		<control> = CANCEL
0019		<control> = END OF MEDIUM
001A		<control> = SUBSTITUTE → FFFD  replacement character

001B		<control> = ESCAPE
001C		<control> = FILE SEPARATOR
001D		<control> = GROUP SEPARATOR
001E		<control> = RECORD SEPARATOR
001F		<control> = UNIT SEPARATOR

ASCII

0020		SPACE • sometimes considered a control code • other space characters: 2000  –200A  → 00A0  no-break space → 200B  zero width space → 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 ˆ combining double vertical line above → 2033 " double prime → 3003 " ditto mark
0023	#	NUMBER SIGN = pound sign, hash, crosshatch, octothorpe
0024	\$	DOLLAR SIGN = milreis, escudo • glyph may have one or two vertical bars • other currency symbol characters: 20A0 € –20AF ₪ → 00A4 ₤ currency sign
0025	%	PERCENT SIGN → 066A % arabic percent sign → 2030 ‰ per mille sign → 2031 ‰ per ten thousand sign
0026	&	AMPERSAND

0027	'	APOSTROPHE = APOSTROPHE-QUOTE = APL quote • neutral (vertical) glyph having mixed usage • preferred character for apostrophe is 2019 ' • 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 ◌ combining acute accent → 2032 ´ prime	0035	5	DIGIT FIVE
			0036	6	DIGIT SIX
			0037	7	DIGIT SEVEN
			0038	8	DIGIT EIGHT
			0039	9	DIGIT NINE
			003A	:	COLON → 0589 : armenian full stop → 2236 : ratio
			003B	;	SEMICOLON → 037E ; greek question mark → 061B ؛ arabic semicolon
			003C	<	LESS-THAN SIGN → 2039 < single left-pointing angle quotation mark → 2329 ‹ left-pointing angle bracket → 3008 ‹ left angle bracket
0028	(	LEFT PARENTHESIS = OPENING PARENTHESIS	003D	=	EQUALS SIGN • other related characters: 2241 ≠ –2263 ≡ → 2260 ≠ not equal to → 2261 ≡ identical to
0029	)	RIGHT PARENTHESIS = CLOSING PARENTHESIS • see discussion on semantics of paired bracketing characters	003E	>	GREATER-THAN SIGN → 203A > single right-pointing angle quotation mark → 232A › right-pointing angle bracket → 3009 › right angle bracket
002A	*	ASTERISK = star (on phone keypads) → 066D ★ arabic five pointed star → 2217 * asterisk operator → 2731 ⚡ heavy asterisk	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
002B	+	PLUS SIGN	0040	@	COMMERCIAL AT
002C	,	COMMA = decimal separator → 060C ، arabic comma → 201A , single low-9 quotation mark → 3001 、 ideographic comma	0041	A	LATIN CAPITAL LETTER A
			0042	B	LATIN CAPITAL LETTER B → 212C ℬ script capital b
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	0043	C	LATIN CAPITAL LETTER C → 2102 ™ double-struck capital c → 212D ℄ black-letter capital c
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	0044	D	LATIN CAPITAL LETTER D
			0045	E	LATIN CAPITAL LETTER E → 2107 ℰ euler constant → 2130 ℰ script capital e
002F	/	SOLIDUS = SLASH = virgule, shilling (British) → 01C0 latin letter dental click → 0338 ⁄ combining long solidus overlay → 2044 ⁄ fraction slash → 2215 ⁄ division slash	0046	F	LATIN CAPITAL LETTER F → 2131 ℱ script capital f → 2132 ℱ turned capital f
0030	0	DIGIT ZERO	0047	G	LATIN CAPITAL LETTER G
0031	1	DIGIT ONE	0048	H	LATIN CAPITAL LETTER H → 210B ℋ script capital h → 210C ℋ black-letter capital h → 210D ℋ double-struck capital h
0032	2	DIGIT TWO			
0033	3	DIGIT THREE			
0034	4	DIGIT FOUR			

0049	I	LATIN CAPITAL LETTER I	005F	_	LOW LINE
		• Turkish and Azerbaijani use 0131 ı for lowercase			= SPACING UNDERScore
		→ 0130 İ latin capital letter i with dot above			• this is a spacing character
		→ 0406 І cyrillic capital letter byelorussian-ukrainian i			→ 02CD ¯ modifier letter low macron
		→ 04C0 І cyrillic letter palochka			→ 0331 ¯ combining macron below
		→ 2110 ℐ script capital i			→ 0332 ¯ combining low line
		→ 2111 Ɔ black-letter capital i			→ 2017 = double low line
		→ 2160 I roman numeral one	0060	`	GRAVE ACCENT
					• this is a spacing character
004A	J	LATIN CAPITAL LETTER J			→ 02CB ` modifier letter grave accent
004B	K	LATIN CAPITAL LETTER K			→ 0300 ˘ combining grave accent
		→ 212A K kelvin sign			→ 2035 ` reversed prime
004C	L	LATIN CAPITAL LETTER L	0061	a	LATIN SMALL LETTER A
		→ 2112 ℒ script capital l	0062	b	LATIN SMALL LETTER B
004D	M	LATIN CAPITAL LETTER M	0063	c	LATIN SMALL LETTER C
		→ 2133 ™ script capital m	0064	d	LATIN SMALL LETTER D
004E	N	LATIN CAPITAL LETTER N	0065	e	LATIN SMALL LETTER E
		→ 2115 N double-struck capital n			→ 212E e estimated symbol
004F	O	LATIN CAPITAL LETTER O			→ 212F e script small e
0050	P	LATIN CAPITAL LETTER P	0066	f	LATIN SMALL LETTER F
		→ 2119 P double-struck capital p	0067	g	LATIN SMALL LETTER G
0051	Q	LATIN CAPITAL LETTER Q			→ 0261 g latin small letter script g
		→ 211A Q double-struck capital q			→ 210A g script small g
0052	R	LATIN CAPITAL LETTER R	0068	h	LATIN SMALL LETTER H
		→ 211B ℞ script capital r			→ 04BB h cyrillic small letter shha
		→ 211C Ɔ black-letter capital r			→ 210E h planck constant
		→ 211D R double-struck capital r	0069	i	LATIN SMALL LETTER I
					• Turkish and Azerbaijani use 0130 İ for uppercase
0053	S	LATIN CAPITAL LETTER S			→ 0131 ı latin small letter dotless i
0054	T	LATIN CAPITAL LETTER T	006A	j	LATIN SMALL LETTER J
0055	U	LATIN CAPITAL LETTER U	006B	k	LATIN SMALL LETTER K
0056	V	LATIN CAPITAL LETTER V	006C	l	LATIN SMALL LETTER L
0057	W	LATIN CAPITAL LETTER W			→ 2113 ℓ script small l
0058	X	LATIN CAPITAL LETTER X	006D	m	LATIN SMALL LETTER M
0059	Y	LATIN CAPITAL LETTER Y	006E	n	LATIN SMALL LETTER N
005A	Z	LATIN CAPITAL LETTER Z			→ 207F ⁿ superscript latin small letter n
		→ 2124 Z double-struck capital z	006F	o	LATIN SMALL LETTER O
		→ 2128 Ɔ black-letter capital z			→ 2134 o script small o
005B	[	LEFT SQUARE BRACKET	0070	p	LATIN SMALL LETTER P
		= OPENING SQUARE BRACKET	0071	q	LATIN SMALL LETTER Q
		• other bracket characters:	0072	r	LATIN SMALL LETTER R
		3008 ⟨ –301B ⌞	0073	s	LATIN SMALL LETTER S
005C	\	REVERSE SOLIDUS	0074	t	LATIN SMALL LETTER T
		= BACKSLASH	0075	u	LATIN SMALL LETTER U
		→ 2216 \ set minus	0076	v	LATIN SMALL LETTER V
005D	]	RIGHT SQUARE BRACKET	0077	w	LATIN SMALL LETTER W
		= CLOSING SQUARE BRACKET	0078	x	LATIN SMALL LETTER X
005E	^	CIRCUMFLEX ACCENT	0079	y	LATIN SMALL LETTER Y
		• this is a spacing character	007A	z	LATIN SMALL LETTER Z
		→ 02C4 ^ modifier letter up arrowhead			→ 01B6 z latin small letter z with stroke
		→ 02C6 ^ modifier letter circumflex accent	007B	{	LEFT CURLY BRACKET
		→ 0302 ˆ combining circumflex accent			= OPENING CURLY BRACKET
		→ 2303 ^ up arrowhead			= opening brace

007C | VERTICAL LINE
= VERTICAL BAR
• used in pairs to indicate absolute value
→ 01C0 | latin letter dental click
→ 2223 | divides
→ 2758 | light vertical bar

007D } RIGHT CURLY BRACKET
= CLOSING CURLY BRACKET
= closing brace

007E ~ TILDE
• this is a spacing character
→ 02DC ~ small tilde
→ 0303 º combining tilde
→ 223C ~ tilde operator
→ FF5E ~ fullwidth tilde

007F  <control>
= DELETE