

DIGIT ZERO uni0030	0	0
DIGIT ONE uni0031	1	1
DIGIT TWO uni0032	2	2
DIGIT THREE uni0033	3	3
DIGIT FOUR uni0034	4	4
DIGIT FIVE uni0035	5	5
DIGIT SIX uni0036	6	6
DIGIT SEVEN uni0037	7	7
DIGIT EIGHT uni0038	8	8
DIGIT NINE uni0039	9	9
COLON uni003A	:	0
SEMICOLON uni003B	,	o 9
LESS-THAN SIGN uni003C	<	<
EQUALS SIGN uni003D	=	=
GREATER-THAN SIGN uni003E	>	>
QUESTION MARK uni003F	?	?
COMMERCIAL AT uni0040	(a)	<u>@</u>
LATIN CAPITAL LETTER A uni0041	А	A
LATIN CAPITAL LETTER B uni0042	В	B
LATIN CAPITAL LETTER C uni0043	С	\mathbb{C}
LATIN CAPITAL LETTER D uni0044	D	D
LATIN CAPITAL LETTER E uni0045	Е	E
LATIN CAPITAL LETTER F uni0046	F	F
LATIN CAPITAL LETTER G uni0047	G	G
LATIN CAPITAL LETTER H uni0048	Н	H
LATIN CAPITAL LETTER I uni0049		I
LATIN CAPITAL LETTER J uni004A	J	J

LATIN CAPITAL LETTER K uni004B	K	K
LATIN CAPITAL LETTER L uni004C	L	L
LATIN CAPITAL LETTER M uni004D	M	M
LATIN CAPITAL LETTER N uni004E	Ν	N
LATIN CAPITAL LETTER O uni004F	0	0
LATIN CAPITAL LETTER P uni0050	P	P
LATIN CAPITAL LETTER Q uni0051	Q	Q
LATIN CAPITAL LETTER R uni0052	R	\mathbb{R}
LATIN CAPITAL LETTER S uni0053	S	S
LATIN CAPITAL LETTER T uni0054	Т	T
LATIN CAPITAL LETTER U uni0055	U	U
LATIN CAPITAL LETTER V uni0056	V	V
LATIN CAPITAL LETTER W uni0057	W	W
LATIN CAPITAL LETTER X uni0058	X	X
LATIN CAPITAL LETTER Y uni0059	Y	Y
LATIN CAPITAL LETTER Z uni005A	Z	Z
LEFT SQUARE BRACKET uni005B	[[
REVERSE SOLIDUS uni005C	\	\
RIGHT SQUARE BRACKET uni005D]]
CIRCUMFLEX ACCENT uni005E	^	٨
LOW LINE uni005F	_	_
GRAVE ACCENT uni0060	`	`
LATIN SMALL LETTER A uni0061	а	A
LATIN SMALL LETTER B uni0062	b	\mathbb{B}
LATIN SMALL LETTER C uni0063	С	\mathbb{C}
LATIN SMALL LETTER D uni0064	d	D
LATIN SMALL LETTER E uni0065	е	E
LATIN SMALL LETTER F uni0066	f	F

LATIN SMALL LETTER G	О	G
uni0067	g	
LATIN SMALL LETTER H uni0068	h	H
LATIN SMALL LETTER I uni0069	i	I
LATIN SMALL LETTER J uni006A	j	J
LATIN SMALL LETTER K uni006B	k	K
LATIN SMALL LETTER L uni006C		L
LATIN SMALL LETTER M uni006D	m	M
LATIN SMALL LETTER N uni006E	n	N
LATIN SMALL LETTER O uni006F	0	0
LATIN SMALL LETTER P uni0070	р	P
LATIN SMALL LETTER Q uni0071	q	Q
LATIN SMALL LETTER R uni0072	r	R
LATIN SMALL LETTER S uni0073	S	S
LATIN SMALL LETTER T uni0074	t	T
LATIN SMALL LETTER U uni0075	U	U
LATIN SMALL LETTER V uni0076	V	V
LATIN SMALL LETTER W uni0077	W	W
LATIN SMALL LETTER X uni0078	X	X
LATIN SMALL LETTER Y uni0079	У	Y
LATIN SMALL LETTER Z uni007A	Z	Z
LEFT CURLY BRACKET uni007B	{	{
VERTICAL LINE uni007C		l
RIGHT CURLY BRACKET uni007D	}	}
TILDE uni007E	~	~
NO-BREAK SPACE uni00A0		
INVERTED EXCLAMATION MARK uni00A1	i	i
CENT SIGN uni00A2	¢	¢

POUND SIGN

uni00A3	£	£
		¤
CURRENCY SIGN uni00A4	¤	Ω
YEN SIGN uni00A5	¥	¥
BROKEN BAR uni00A6	I	1
SECTION SIGN uni00A7	§	§
DIAERESIS uni00A8		
COPYRIGHT SIGN uni00A9	©	©
FEMININE ORDINAL INDICATOR uni00AA	<u>a</u>	a
LEFT-POINTING DOUBLE ANGLE QUOTATION MARK uni00AB	<<	≪
NOT SIGN uni00AC	\neg	_
SOFT HYPHEN uni00AD		
REGISTERED SIGN uni00AE	R	R
DEGREE SIGN uni00B0	0	0
PLUS-MINUS SIGN uni00B1	\pm	<u>±</u>
SUPERSCRIPT TWO uni00B2	2	2
SUPERSCRIPT THREE uni00B3	3	3
ACUTE ACCENT uni00B4	/	
MICRO SIGN uni00B5	μ	μ
PILCROW SIGN uni00B6	1	\P
CEDILLA uni00B8	٦	3
SUPERSCRIPT ONE uni00B9	1	1
MASCULINE ORDINAL INDICATOR uni00BA	0	0
RIGHT-POINTING DOUBLE ANGLE QUOTATION MARK uni00BB	>>	>>
VULGAR FRACTION ONE QUARTER uni00BC	1/4	1/4
VULGAR FRACTION ONE HALF uni00BD	1/2	1/2
VULGAR FRACTION THREE QUARTERS uni00BE	3/4	3/4
INVERTED QUESTION MARK uni00BF	غ	į

LATIN CAPITAL LETTER A WITH GRAVE	À	À
uni00C0		
LATIN CAPITAL LETTER A WITH ACUTE uni00C1	Á	Á
LATIN CAPITAL LETTER A WITH CIRCUMFLEX uni00C2	Â	Â
LATIN CAPITAL LETTER A WITH TILDE uni00C3	Ã	Ã
LATIN CAPITAL LETTER A WITH DIAERESIS uni00C4	Ä	Ä
LATIN CAPITAL LETTER A WITH RING ABOVE uni00C5	Å	Å
LATIN CAPITAL LETTER AE uni00C6	Æ	Æ
LATIN CAPITAL LETTER C WITH CEDILLA uni00C7	Ç	Ç
LATIN CAPITAL LETTER E WITH GRAVE uni00C8	È	È
LATIN CAPITAL LETTER E WITH ACUTE uni00C9	É	É
LATIN CAPITAL LETTER E WITH CIRCUMFLEX uni00CA	Ê	Ê
LATIN CAPITAL LETTER E WITH DIAERESIS uni00CB	Ë	Ë
LATIN CAPITAL LETTER I WITH GRAVE uni00CC	Ì	Ì
LATIN CAPITAL LETTER I WITH ACUTE uni00CD	ĺ	Í
LATIN CAPITAL LETTER I WITH CIRCUMFLEX uni00CE	Î	Î
LATIN CAPITAL LETTER I WITH DIAERESIS uni00CF	Ϊ	Ϊ
LATIN CAPITAL LETTER ETH uni00D0	Đ	Ð
LATIN CAPITAL LETTER N WITH TILDE uni00D1	Ñ	Ñ
LATIN CAPITAL LETTER O WITH GRAVE uni00D2	Ò	Ò
LATIN CAPITAL LETTER O WITH ACUTE uni00D3	Ó	Ó
LATIN CAPITAL LETTER O WITH CIRCUMFLEX uni00D4	Ô	Ô
LATIN CAPITAL LETTER O WITH TILDE uni00D5	Õ	Õ
LATIN CAPITAL LETTER O WITH DIAERESIS uni00D6	Ö	Ö
MULTIPLICATION SIGN uni00D7	×	X
LATIN CAPITAL LETTER O WITH STROKE uni00D8	Ø	Ø
LATIN CAPITAL LETTER U WITH GRAVE uni00D9	Ù	Ù
LATIN CAPITAL LETTER U WITH ACUTE uni00DA	Ú	Ú
LATIN CAPITAL LETTER U WITH CIRCUMFLEX		

uni00DB	Û	Û
LATIN CAPITAL LETTER U WITH DIAERESIS uni00DC	Ü	Ü
LATIN CAPITAL LETTER Y WITH ACUTE uni00DD	Ý	Ý
LATIN CAPITAL LETTER THORN uni00DE	Þ	Þ
LATIN SMALL LETTER A WITH GRAVE uni00E0	à	À
LATIN SMALL LETTER A WITH ACUTE uni00E1	á	Á
LATIN SMALL LETTER A WITH CIRCUMFLEX uni00E2	â	Â
LATIN SMALL LETTER A WITH TILDE uni00E3	ã	Ã
LATIN SMALL LETTER A WITH DIAERESIS uni00E4	ä	Ä
LATIN SMALL LETTER A WITH RING ABOVE uni00E5	å	Å
LATIN SMALL LETTER AE uni00E6	æ	Æ
LATIN SMALL LETTER C WITH CEDILLA uni00E7	Ç	Ç
LATIN SMALL LETTER E WITH GRAVE uni00E8	è	È
LATIN SMALL LETTER E WITH ACUTE uni00E9	é	É
LATIN SMALL LETTER E WITH CIRCUMFLEX uni00EA	ê	Ê
LATIN SMALL LETTER E WITH DIAERESIS uni00EB	ë	Ë
LATIN SMALL LETTER I WITH GRAVE uni00EC	Ì	Ì
LATIN SMALL LETTER I WITH ACUTE uni00ED	ĺ	Í
LATIN SMALL LETTER I WITH CIRCUMFLEX uni00EE	Î	Î
LATIN SMALL LETTER I WITH DIAERESIS uni00EF	Ϊ	Ϊ
LATIN SMALL LETTER ETH uni00F0	ð	Ð
LATIN SMALL LETTER N WITH TILDE uni00F1	ñ	Ñ
LATIN SMALL LETTER O WITH GRAVE uni00F2	Ò	Ò
LATIN SMALL LETTER O WITH ACUTE uni00F3	Ó	Ó
LATIN SMALL LETTER O WITH CIRCUMFLEX uni00F4	Ô	Ô
LATIN SMALL LETTER O WITH TILDE uni00F5	Õ	Õ
LATIN SMALL LETTER O WITH DIAERESIS uni00F6	Ö	Ö
DIVISION SIGN uni00F7	÷	÷

LATIN SMALL LETTER O WITH STROKE uni00F8	Ø	Ø
	ù	Ù
LATIN SMALL LETTER U WITH GRAVE uni00F9		
LATIN SMALL LETTER U WITH ACUTE uni00FA	Ú	Ú
LATIN SMALL LETTER U WITH CIRCUMFLEX uni00FB	û	Û
LATIN SMALL LETTER U WITH DIAERESIS uni00FC	ü	Ü
LATIN SMALL LETTER Y WITH ACUTE uni00FD	ý	Ý
LATIN SMALL LETTER THORN uni00FE	þ	Þ
LATIN SMALL LETTER Y WITH DIAERESIS uni00FF	ÿ	Ÿ
LATIN CAPITAL LETTER A WITH MACRON uni0100	Ā	A
LATIN SMALL LETTER A WITH MACRON uni0101	ā	B
LATIN CAPITAL LETTER A WITH BREVE uni0102	Ă	\mathbb{C}
LATIN SMALL LETTER A WITH BREVE uni0103	ă	\mathbb{D}
LATIN CAPITAL LETTER A WITH OGONEK uni0104	Ą	E
LATIN SMALL LETTER A WITH OGONEK uni0105	ą	F
LATIN CAPITAL LETTER C WITH ACUTE uni0106	Ć	G
LATIN SMALL LETTER C WITH ACUTE uni0107	Ć	H
LATIN CAPITAL LETTER C WITH CIRCUMFLEX uni0108	Ĉ	I
LATIN SMALL LETTER C WITH CIRCUMFLEX uni0109	Ĉ	J
LATIN CAPITAL LETTER C WITH DOT ABOVE uni010A	Ċ	K
LATIN SMALL LETTER C WITH DOT ABOVE uni010B	Ċ	L
LATIN CAPITAL LETTER C WITH CARON uni010C	Č	M
LATIN CMALL LETTER C WITH CARON	č	N
LATIN SMALL LETTER C WITH CARON uni010D	Ď	
LATIN CAPITAL LETTER D WITH CARON uni010E		D
LATIN SMALL LETTER D WITH CARON uni010F	ď	P
LATIN CAPITAL LETTER D WITH STROKE uni0110	Ð	
LATIN SMALL LETTER D WITH STROKE uni0111	đ	\mathbb{R}

LATIN CAPITAL LETTER E WITH MACRON uni0112	Ē	S
LATIN SMALL LETTER E WITH MACRON uni0113	ē	T
LATIN CAPITAL LETTER E WITH BREVE	Ĕ	U
uni0114		
LATIN SMALL LETTER E WITH BREVE uni0115	ĕ	V
LATIN CAPITAL LETTER E WITH DOT ABOVE uni0116	Ė	W
LATIN SMALL LETTER E WITH DOT ABOVE uni0117	ė	X
LATIN CAPITAL LETTER E WITH OGONEK uni0118	Ę	Y
LATIN SMALL LETTER E WITH OGONEK uni0119	ę	Z
LATIN SMALL LETTER DOTLESS I uni0131	I	I
LATIN CAPITAL LIGATURE OE uni0152	Œ	Œ
LATIN SMALL LIGATURE OE uni0153	œ	Œ
LATIN CAPITAL LETTER S WITH CARON uni0160	Š	Š
LATIN SMALL LETTER S WITH CARON uni0161	Š	Š
LATIN CAPITAL LETTER Y WITH DIAERESIS uni0178	Ÿ	Ÿ
LATIN SMALL LETTER F WITH HOOK uni0192	f	f
MODIFIER LETTER CIRCUMFLEX ACCENT uni02C6	^	^
CARON uni02C7	V	~
MODIFIER LETTER MACRON uni02C9	-	_
BREVE uni02D8	V	<u> </u>
DOT ABOVE uni02D9		·
RING ABOVE uni02DA	0	0
OGONEK uni02DB	د	L
SMALL TILDE uni02DC	~	~
DOUBLE ACUTE ACCENT uni02DD	//	~
GREEK SMALL LETTER PI uni03C0	π	π
EN DASH uni2013	-	_
EM DASH uni2014 LEFT SINGLE QUOTATION MARK	_	

uni2018	1	6
RIGHT SINGLE QUOTATION MARK uni2019	,	9
SINGLE LOW-9 QUOTATION MARK uni201A	,	9
LEFT DOUBLE QUOTATION MARK uni201C	11	66
RIGHT DOUBLE QUOTATION MARK uni201D	11	99
DOUBLE LOW-9 QUOTATION MARK uni201E	11	99
DAGGER uni2020	†	†
DOUBLE DAGGER uni2021	‡	++
BULLET uni2022	•	•
HORIZONTAL ELLIPSIS uni2026		
PER MILLE SIGN uni2030	%0	%0
SINGLE LEFT-POINTING ANGLE QUOTATION MARK uni2039	<	<
SINGLE RIGHT-POINTING ANGLE QUOTATION MARK uni203A	>	>
EURO SIGN uni20AC	€	€
TRADE MARK SIGN uni2122	TM	TM
OHM SIGN uni2126	Ω	Ω
PARTIAL DIFFERENTIAL uni2202	9	9
INCREMENT uni2206	Δ	Δ
N-ARY PRODUCT uni220F	П	Π
N-ARY SUMMATION uni2211	Σ	Σ
DIVISION SLASH uni2215	/	/
BULLET OPERATOR uni2219	•	•
SQUARE ROOT uni221A	V	√
INFINITY uni221E	00	∞
INTEGRAL uni222B	ſ	J
ALMOST EQUAL TO uni2248	\approx	≈
NOT EQUAL TO uni2260	≠	≠
LESS-THAN OR EQUAL TO uni2264	\leq	\leq

















