

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	1
DIGIT EIGHT uni0038	8	8
DIGIT NINE uni0039	9	9
COLON uni003A	:	:
SEMICOLON uni003B	,	i
LESS-THAN SIGN uni003C	<	<
EQUALS SIGN uni003D	=	=
GREATER-THAN SIGN uni003E	>	>
QUESTION MARK uni003F	?	Ś
COMMERCIAL AT uni0040	(a)	@
LATIN CAPITAL LETTER A uni0041	Α	A
LATIN CAPITAL LETTER B uni0042	В	В
LATIN CAPITAL LETTER C uni0043	С	C
LATIN CAPITAL LETTER D uni0044	D	D
LATIN CAPITAL LETTER E uni0045	Е	٤
LATIN CAPITAL LETTER F	F	f
uni0046 LATIN CAPITAL LETTER G	G	6
uni0047 LATIN CAPITAL LETTER H	Н	_
uni0048 LATIN CAPITAL LETTER I	П	H
uni0049	ı	1
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	R
LATIN CAPITAL LETTER S uni0053	S	5
LATIN CAPITAL LETTER T uni0054	Т	Τ
LATIN CAPITAL LETTER U uni0055	U	U
LATIN CAPITAL LETTER V uni0056	V	٧
LATIN CAPITAL LETTER W uni0057	W	W
LATIN CAPITAL LETTER X uni0058	X	Υ ,
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	^	۸
LOW LINE uni005F	_	_
GRAVE ACCENT uni0060	`	`
LATIN SMALL LETTER A uni0061	а	a
LATIN SMALL LETTER B uni0062	b	b
LATIN SMALL LETTER C uni0063	С	С
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 uni0067	g	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		I
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	વ
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	٧
LATIN SMALL LETTER W uni0077	W	ω
LATIN SMALL LETTER X uni0078	X	k
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	¤	Д
YEN SIGN uni00A5	¥	¥
BROKEN BAR uni00A6	I	1
SECTION SIGN uni00A7	§	§
DIAERESIS uni00A8	••	
COPYRIGHT SIGN uni00A9	©	0
FEMININE ORDINAL INDICATOR uni00AA	<u>a</u>	a
LEFT-POINTING DOUBLE ANGLE QUOTATION MARK uni00AB	<<	«
NOT SIGN uni00AC	¬	٦
SOFT HYPHEN uni00AD		
REGISTERED SIGN uni00AE	R	®
MACRON uni00AF	-	-
DEGREE SIGN uni00B0	0	0
PLUS-MINUS SIGN uni00B1	±	士
SUPERSCRIPT TWO uni00B2	2	2
SUPERSCRIPT THREE uni00B3	3	3
ACUTE ACCENT uni00B4	/	•
MICRO SIGN uni00B5	μ	μ
PILCROW SIGN uni00B6	1	91
MIDDLE DOT uni00B7	•	•
CEDILLA uni00B8	٥	5
SUPERSCRIPT ONE uni00B9	1	l
MASCULINE ORDINAL INDICATOR uni00BA	Ō	0
RIGHT-POINTING DOUBLE ANGLE QUOTATION MARK uni00BB	<i>>></i>	»
VULGAR FRACTION ONE QUARTER uni00BC	1/4	1/4
VULGAR FRACTION ONE HALF uni00BD	1/2	1/2

	3/4	3/4
VULGAR FRACTION THREE QUARTERS uni00BE		
INVERTED QUESTION MARK uni00BF	غ	Ś
LATIN CAPITAL LETTER A WITH GRAVE uni00C0	À	À
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	Ē
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	Ĩ
LATIN CAPITAL LETTER I WITH ACUTE uni00CD	ĺ	ĺ
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	ó
LATIN CAPITAL LETTER O WITH ACUTE uni00D3	Ó	ō
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	×	¥
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 SHARP S uni00DF	ß	β
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	á
LATIN SMALL LETTER A WITH DIAERESIS uni00E4	ä	ä
LATIN SMALL LETTER A WITH RING ABOVE uni00E5	å	8
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	ĺ
LATIN SMALL LETTER I WITH CIRCUMFLEX uni00EE	î	î
LATIN SMALL LETTER I WITH DIAERESIS uni00EF	Ϊ	Ϊ
LATIN SMALL LETTER ETH uni00F0	ð	9
LATIN SMALL LETTER N WITH TILDE uni00F1	ñ	ņ
LATIN SMALL LETTER O WITH GRAVE uni00F2	ò	ò
LATIN SMALL LETTER O WITH ACUTE uni00F3	ó	6
LATIN SMALL LETTER O WITH CIRCUMFLEX uni00F4	ô	ô

LATIN SMALL LETTER O WITH TILDE uni00F5	õ	õ
	Ö	ö
LATIN SMALL LETTER O WITH DIAERESIS uni00F6		
DIVISION SIGN uni00F7	÷	÷
LATIN SMALL LETTER O WITH STROKE uni00F8	Ø	ø
LATIN SMALL LETTER U WITH GRAVE uni00F9	ù	ù
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	Ā
LATIN SMALL LETTER A WITH MACRON uni0101	ā	ā
LATIN CAPITAL LETTER A WITH BREVE uni0102	Ă	Ă
LATIN SMALL LETTER A WITH BREVE uni0103	ă	ă
LATIN CAPITAL LETTER A WITH OGONEK uni0104	Ą	Ą
LATIN SMALL LETTER A WITH OGONEK uni0105	ą	ą
LATIN CAPITAL LETTER C WITH ACUTE uni0106	Ć	ć
LATIN SMALL LETTER C WITH ACUTE uni0107	Ć	ć
LATIN CAPITAL LETTER C WITH CIRCUMFLEX uni0108	Ĉ	ĉ
LATIN SMALL LETTER C WITH CIRCUMFLEX uni0109	Ĉ	Ĉ
LATIN CAPITAL LETTER C WITH DOT ABOVE	Ċ	Ċ
uni010A LATIN SMALL LETTER C WITH DOT ABOVE	ċ	ċ
uni010B LATIN CAPITAL LETTER C WITH CARON	Č	č
uni010C	č	
LATIN SMALL LETTER C WITH CARON uni010D		š Č
LATIN CAPITAL LETTER D WITH CARON uni010E	Ď	V

LATIN CAPITAL LETTER E WITH MACRON uni0112	Ē	Ē
LATIN SMALL LETTER E WITH MACRON uni0113	ē	ē
	Ĕ	Ĕ
LATIN CAPITAL LETTER E WITH BREVE uni0114		
LATIN SMALL LETTER E WITH BREVE uni0115	ĕ	ĕ
LATIN CAPITAL LETTER E WITH DOT ABOVE uni0116	Ė	Ė
LATIN SMALL LETTER E WITH DOT ABOVE uni0117	ė	ė
LATIN CAPITAL LETTER E WITH OGONEK uni0118	Ę	Ę
LATIN SMALL LETTER E WITH OGONEK uni0119	ę	ş
LATIN CAPITAL LETTER E WITH CARON uni011A	Ě	Ě
LATIN SMALL LETTER E WITH CARON uni011B	ě	ě
LATIN CAPITAL LETTER G WITH CIRCUMFLEX uni011C	Ĝ	Ĝ
LATIN SMALL LETTER G WITH CIRCUMFLEX uni011D	ĝ	ĝ
LATIN CAPITAL LETTER G WITH BREVE uni011E	Ğ	Ğ
LATIN SMALL LETTER G WITH BREVE uni011F	ğ	ğ
LATIN CAPITAL LETTER G WITH DOT ABOVE uni0120	Ġ	Ġ
LATIN SMALL LETTER G WITH DOT ABOVE uni0121	ġ	ġ
LATIN CAPITAL LETTER G WITH CEDILLA uni0122	Ģ	Ģ
LATIN SMALL LETTER G WITH CEDILLA uni0123	ģ	ġ
LATIN CAPITAL LETTER H WITH CIRCUMFLEX uni0124	Ĥ	Ĥ
LATIN SMALL LETTER H WITH CIRCUMFLEX uni0125	ĥ	ĥ
LATIN CAPITAL LETTER H WITH STROKE uni0126	Ħ	Ħ
LATIN SMALL LETTER H WITH STROKE uni0127	ħ	ħ
LATIN CAPITAL LETTER I WITH TILDE uni0128	Ĩ	Ĩ
LATIN SMALL LETTER I WITH TILDE uni0129	ĩ	Š
LATIN SMALL LETTER I WITH MACRON uni012B	Ī	ī
LATIN CAPITAL LETTER I WITH BREVE uni012C	Ĭ	Ĭ
LATIN CAPITAL LETTER I WITH OGONEK uni012E LATIN SMALL LETTER I WITH OGONEK	Į	Į

uni012F	į	į
LATIN CAPITAL LETTER I WITH DOT ABOVE uni0130	İ	i
LATIN SMALL LETTER DOTLESS I uni0131	I	(
LATIN CAPITAL LETTER J WITH CIRCUMFLEX uni0134	Ĵ	Ĵ
LATIN SMALL LETTER J WITH CIRCUMFLEX uni0135	ĵ	ĵ
LATIN CAPITAL LETTER K WITH CEDILLA uni0136	Ķ	Ķ
LATIN SMALL LETTER K WITH CEDILLA uni0137	ķ	ķ
LATIN CAPITAL LETTER L WITH ACUTE uni0139	Ĺ	Ĺ
LATIN SMALL LETTER L WITH ACUTE uni013A	ĺ	ĺ
LATIN CAPITAL LETTER L WITH CEDILLA uni013B	Ļ	Ļ
LATIN SMALL LETTER L WITH CEDILLA uni013C	ļ	ļ
LATIN CAPITAL LETTER L WITH MIDDLE DOT uni013F	Ŀ	Ŀ
LATIN SMALL LETTER L WITH MIDDLE DOT uni0140	ŀ	ŀ
LATIN CAPITAL LETTER L WITH STROKE uni0141	Ł	Ł
LATIN SMALL LETTER L WITH STROKE uni0142	1	+
LATIN CAPITAL LETTER N WITH ACUTE uni0143	Ń	Ń
LATIN SMALL LETTER N WITH ACUTE uni0144	ń	ń
LATIN CAPITAL LETTER N WITH CEDILLA uni0145	Ņ	Ņ
LATIN SMALL LETTER N WITH CEDILLA uni0146	ņ	ņ
LATIN CAPITAL LETTER N WITH CARON uni0147	Ň	Ň
LATIN SMALL LETTER N WITH CARON uni0148	ň	ň
LATIN SMALL LETTER N PRECEDED BY APOSTROPHE uni0149	'n	ń
LATIN CAPITAL LETTER O WITH MACRON uni014C	0	Ō
LATIN SMALL LETTER O WITH MACRON uni014D	Ō	ō
LATIN CAPITAL LETTER O WITH BREVE uni014E	Ō	Ŏ
LATIN SMALL LETTER O WITH BREVE uni014F	ő	ŏ
LATIN CAPITAL LETTER O WITH DOUBLE ACUTE uni0150	0	Ő
LATIN SMALL LETTER O WITH DOUBLE ACUTE uni0151	ő	ő

LATIN CAPITAL LIGATURE OE uni0152	Œ	Œ
LATIN SMALL LIGATURE OE uni0153	œ	<i>o</i> e
LATIN CAPITAL LETTER R WITH ACUTE uni0154	Ŕ	Ŕ
	ŕ	Ŕ
LATIN SMALL LETTER R WITH ACUTE uni0155		
LATIN CAPITAL LETTER R WITH CEDILLA uni0156	Ŗ	Ŗ
LATIN SMALL LETTER R WITH CEDILLA uni0157	ŗ	Ŗ
LATIN CAPITAL LETTER R WITH CARON uni0158	Ř	Ř
LATIN SMALL LETTER R WITH CARON uni0159	ř	ř
LATIN CAPITAL LETTER S WITH ACUTE uni015A	Ś	Ś
LATIN SMALL LETTER S WITH ACUTE uni015B	Ś	Ś
LATIN CAPITAL LETTER S WITH CIRCUMFLEX uni015C	Ŝ	ŝ
LATIN SMALL LETTER S WITH CIRCUMFLEX uni015D	ŝ	ŝ
LATIN CAPITAL LETTER S WITH CEDILLA uni015E	Ş	Ş
LATIN SMALL LETTER S WITH CEDILLA uni015F	Ş	ş
LATIN CAPITAL LETTER S WITH CARON uni0160	Š	Š
LATIN SMALL LETTER S WITH CARON uni0161	Š	š
LATIN CAPITAL LETTER T WITH CEDILLA uni0162	Ţ	Ţ
LATIN SMALL LETTER T WITH CEDILLA uni0163	ţ	ţ
LATIN CAPITAL LETTER T WITH CARON uni0164	Ť	Ť
LATIN CAPITAL LETTER T WITH STROKE uni0166	Ŧ	Ŧ
LATIN SMALL LETTER T WITH STROKE uni0167	ŧ	‡
LATIN CAPITAL LETTER U WITH TILDE uni0168	Ũ	ũ
LATIN SMALL LETTER U WITH TILDE uni0169	ũ	Š
LATIN CAPITAL LETTER U WITH MACRON uni016A	Ū	ū
LATIN SMALL LETTER U WITH MACRON uni016B	ū	ū
LATIN CAPITAL LETTER U WITH BREVE uni016C	Ŭ	ŭ
LATIN SMALL LETTER U WITH BREVE uni016D	ŭ	ŭ

LATIN CAPITAL LETTER U WITH RING ABOVE uni016E	Ů	Ů
LATIN SMALL LETTER U WITH RING ABOVE uni016F	ů	ů
LATIN CAPITAL LETTER U WITH DOUBLE ACUTE uni0170	Ű	ű
	ű	ű
LATIN SMALL LETTER U WITH DOUBLE ACUTE uni0171	01	•
3		
LATIN CAPITAL LETTER U WITH OGONEK uni0172	Ų	Ų
LATIN SMALL LETTER U WITH OGONEK uni0173	Ų	ų
LATIN CAPITAL LETTER W WITH CIRCUMFLEX uni0174	Ŵ	ŵ
LATIN SMALL LETTER W WITH CIRCUMFLEX uni0175	Ŵ	ώ
LATIN CAPITAL LETTER Y WITH CIRCUMFLEX uni0176	Ŷ	ŷ
LATIN SMALL LETTER Y WITH CIRCUMFLEX uni0177	ŷ	ŷ
LATIN CAPITAL LETTER Y WITH DIAERESIS uni0178	Ÿ	ÿ
LATIN CAPITAL LETTER Z WITH ACUTE uni0179	Ź	Ź
LATIN SMALL LETTER Z WITH ACUTE uni017A	Ź	í
LATIN CAPITAL LETTER Z WITH DOT ABOVE uni017B	Ż	Ż
LATIN SMALL LETTER Z WITH DOT ABOVE uni017C	Ż	i
LATIN CAPITAL LETTER Z WITH CARON uni017D	Ž	ž
LATIN SMALL LETTER Z WITH CARON uni017E	ž	ž
LATIN SMALL LETTER F WITH HOOK uni0192	f	f
LATIN CAPITAL LETTER AE WITH ACUTE uni01FC	É	Æ
LATIN SMALL LETTER AE WITH ACUTE uni01FD	æ	æ
LATIN CAPITAL LETTER O WITH STROKE AND ACUTE uni01FE	Ó	Ó
LATIN SMALL LETTER O WITH STROKE AND ACUTE uni01FF	Ó	ó
LATIN CAPITAL LETTER S WITH COMMA BELOW uni0218	Ş	Ş
LATIN SMALL LETTER S WITH COMMA BELOW uni0219	Ş	Ş
MODIFIER LETTER CIRCUMFLEX ACCENT uni02C6	^	^
CARON uni02C7	V	~

BREVE

uni02D8	J	U
DOT ABOVE uni02D9		•
RING ABOVE uni02DA	0	0
OGONEK uni02DB	د	c
	~	~
SMALL TILDE uni02DC		
DOUBLE ACUTE ACCENT uni02DD	//	"
LATIN CAPITAL LETTER W WITH GRAVE uni1E80	Ŵ	Ŵ
LATIN SMALL LETTER W WITH GRAVE uni1E81	Ŵ	ώ
LATIN CAPITAL LETTER W WITH ACUTE uni1E82	Ŵ	Ŵ
LATIN SMALL LETTER W WITH ACUTE uni1E83	Ŵ	ώ
LATIN CAPITAL LETTER W WITH DIAERESIS uni1E84	Ŵ	Ü
LATIN SMALL LETTER W WITH DIAERESIS uni1E85	W	ü
LATIN CAPITAL LETTER Y WITH GRAVE uni1EF2	Ý	ý
LATIN SMALL LETTER Y WITH GRAVE uni1EF3	ý	ý
EN DASH uni2013	_	-
EM DASH uni2014	—	-
LEFT SINGLE QUOTATION MARK uni2018	4	•
RIGHT SINGLE QUOTATION MARK uni2019	7	•
SINGLE LOW-9 QUOTATION MARK uni201A	,	
LEFT DOUBLE QUOTATION MARK uni201C	11	(r
RIGHT DOUBLE QUOTATION MARK uni201D	"	(r
DOUBLE LOW-9 QUOTATION MARK uni201E	"	(r
DAGGER uni2020	†	t
DOUBLE DAGGER uni2021	‡	‡
BULLET uni2022	•	•
HORIZONTAL ELLIPSIS uni2026		
SINGLE LEFT-POINTING ANGLE QUOTATION MARK uni2039	<	<
SINGLE RIGHT-POINTING ANGLE QUOTATION MARK		





















