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	:	:
SEMICOLON uni003B	: }	,
LESS-THAN SIGN uni003C	<	4
EQUALS SIGN uni003D	=	=
GREATER-THAN SIGN uni003E	>	>
QUESTION MARK uni003F	?	?
COMMERCIAL AT uni0040	(a)	@
LATIN CAPITAL LETTER A uni0041	Α	Α
LATIN CAPITAL LETTER B uni0042	В	В
LATIN CAPITAL LETTER C uni0043	С	С
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	Н
LATIN CAPITAL LETTER I uni0049		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	Μ
LATIN CAPITAL LETTER N uni004E	N	Ν
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	S
LATIN CAPITAL LETTER T uni0054	Т	Τ
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	Υ
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	9
LATIN SMALL LETTER B uni0062	b	b
LATIN SMALL LETTER C uni0063	С	С
LATIN SMALL LETTER D uni0064	d	9
LATIN SMALL LETTER E uni0065	е	е
LATIN SMALL LETTER F uni0066	f	f

LATIN SMALL LETTER G uni0067	g	9
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		
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	٧
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		
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	¤	¤
YEN SIGN uni00A5	¥	¥
BROKEN BAR uni00A6	I	
SECTION SIGN uni00A7	§	9
DIAERESIS uni00A8		••
COPYRIGHT SIGN uni00A9	©	0
FEMININE ORDINAL INDICATOR uni00AA	<u>a</u>	a
LEFT-POINTING DOUBLE ANGLE QUOTATION MARK uni00AB	«	«
NOT SIGN uni00AC	\neg	٦
SOFT HYPHEN uni00AD		
REGISTERED SIGN uni00AE	R	ß
MACRON uni00AF	-	-
DEGREE SIGN uni00B0	0	0
PLUS-MINUS SIGN uni00B1	±	±
SUPERSCRIPT TWO uni00B2	2	2
SUPERSCRIPT THREE uni00B3	3	3
ACUTE ACCENT uni00B4	/	,
MICRO SIGN uni00B5	μ	И
PILCROW SIGN uni00B6	1	7
MIDDLE DOT uni00B7	٠	•
CEDILLA uni00B8	٦	5
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	4
VULGAR FRACTION ONE HALF uni00BD	1/2	1/2

	3/4	3/4
VULGAR FRACTION THREE QUARTERS uni00BE		
INVERTED QUESTION MARK uni00BF	خ	ż
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	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	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	Đ
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	×	×
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	9
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
	î	
uni00EE LATIN SMALL LETTER I WITH DIAERESIS	î ï ð	
uni00EE LATIN SMALL LETTER I WITH DIAERESIS uni00EF LATIN SMALL LETTER ETH	î ï ð ñ	ï
uni00EE LATIN SMALL LETTER I WITH DIAERESIS uni00EF LATIN SMALL LETTER ETH uni00F0 LATIN SMALL LETTER N WITH TILDE		। ; ਰ
uni00EE LATIN SMALL LETTER I WITH DIAERESIS uni00EF LATIN SMALL LETTER ETH uni00F0 LATIN SMALL LETTER N WITH TILDE uni00F1 LATIN SMALL LETTER O WITH GRAVE	ñ	i i ð ñ

LATIN SMALL LETTER O WITH TILDE	õ	õ
dilloors	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
a.iiooi/X		
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	Å
LATIN SMALL LETTER A WITH BREVE uni0103	ă	å
LATIN CAPITAL LETTER A WITH OGONEK uni0104	Ą	Ą
LATIN SMALL LETTER A WITH OGONEK uni0105	ą	ð
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 LATIN SMALL LETTER C WITH CARON	č	č
uni010D LATIN CAPITAL LETTER D WITH CARON	Ď	Ď
uni010E		U

LATIN SMALL LETTER D WITH CARON uni010F	ď	٩,
LATIN CAPITAL LETTER D WITH STROKE uni0110	Đ	Ð
	đ	đ
LATIN SMALL LETTER D WITH STROKE uni0111		
LATIN CAPITAL LETTER E WITH MACRON uni0112	Ē	Ē
LATIN SMALL LETTER E WITH MACRON uni0113	ē	ē
LATIN CAPITAL LETTER E WITH BREVE uni0114	Ĕ	Ĕ
LATIN SMALL LETTER E WITH BREVE uni0115	ĕ	ě
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	ę
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 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	ĩ
LATIN SMALL LETTER I WITH MACRON uni012B LATIN CAPITAL LETTER I WITH BREVE	Ī	T

uni012C	Ĭ	Ĭ
LATIN SMALL LETTER I WITH OGONEK uni012F	į	نے
LATIN CAPITAL LETTER I WITH DOT ABOVE uni0130	İ	İ
LATIN SMALL LETTER DOTLESS I uni0131	I	١
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
LATIN SMALL LETTER L WITH CEDILLA uni013C	,	ļ
LATIN CAPITAL LETTER L WITH CARON uni013D	Ľ	Ľ
LATIN SMALL LETTER L WITH CARON uni013E	'	1'
LATIN CAPITAL LETTER L WITH MIDDLE DOT uni013F	Ŀ	l.
LATIN SMALL LETTER L WITH MIDDLE DOT uni0140	ŀ	-
LATIN CAPITAL LETTER L WITH STROKE uni0141	Ł	Ł
LATIN SMALL LETTER L WITH STROKE uni0142	ł	+
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	'n
LATIN SMALL LETTER ENG uni014B	ŋ	-
LATIN CAPITAL LETTER O WITH MACRON uni014C	Ō	Ō
LATIN SMALL LETTER O WITH MACRON uni014D	Ō	Ō

LATIN CAPITAL LETTER O WITH BREVE uni014E	Ŏ	Ŏ
LATIN SMALL LETTER O WITH BREVE uni014F	ŏ	Ŏ
LATIN CAPITAL LETTER O WITH DOUBLE ACUTE uni0150	Ő	Ő
	ő	ő
LATIN SMALL LETTER O WITH DOUBLE ACUTE uni0151		
LATIN CAPITAL LIGATURE OE uni0152	Œ	Œ
LATIN SMALL LIGATURE OE uni0153	œ	œ
LATIN CAPITAL LETTER R WITH ACUTE uni0154	Ŕ	Ŕ
LATIN SMALL LETTER R WITH ACUTE uni0155	ŕ	ŕ
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 SMALL LETTER T WITH CARON uni0165	ť	ť
LATIN CAPITAL LETTER U WITH TILDE uni0168	Ũ	ũ
LATIN SMALL LETTER U WITH TILDE uni0169	ũ	ũ
LATIN CAPITAL LETTER U WITH MACRON uni016A	Ū	ū

LATIN SMALL LETTER U WITH MACRON	ū	ū
uni016B	ĬĬ	
LATIN CAPITAL LETTER U WITH BREVE uni016C	U	Ů
LATIN SMALL LETTER U WITH BREVE	ŭ	ŭ
uni016D	ı°ı	ů
LATIN CAPITAL LETTER U WITH RING ABOVE uni016E	U	U
LATIN SMALL LETTER U WITH RING ABOVE uni016F	ů	ů
LATIN CAPITAL LETTER U WITH DOUBLE ACUTE uni0170	Ű	Ű
LATIN SMALL LETTER U WITH DOUBLE ACUTE uni0171	ű	ű
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	ŵ
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	Ź
LATIN CAPITAL LETTER Z WITH DOT ABOVE uni017B	Ż	Ż
LATIN SMALL LETTER Z WITH DOT ABOVE uni017C	ż	Ż
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	ŕ
LATIN CAPITAL LETTER O WITH STROKE AND ACUTE uni01FE	Ø	Ó
LATIN SMALL LETTER O WITH STROKE AND ACUTE uni01FF	Ø	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	~	~
BREVE uni02D8	U	v
		•
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	Ŵ
LATIN CAPITAL LETTER W WITH ACUTE uni1E82	Ŵ	Ŵ
LATIN SMALL LETTER W WITH ACUTE uni1E83	Ŵ	Ŵ
LATIN CAPITAL LETTER W WITH DIAERESIS uni1E84	Ŵ	W
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	1	•
RIGHT SINGLE QUOTATION MARK uni2019	,	•
SINGLE LOW-9 QUOTATION MARK uni201A	,	1
LEFT DOUBLE QUOTATION MARK uni201C	11	((
RIGHT DOUBLE QUOTATION MARK uni201D	11	W
DOUBLE LOW-9 QUOTATION MARK uni201E	11	li.
DAGGER uni2020	†	†
DOUBLE DAGGER uni2021	‡	‡
BULLET		





















