

HYPHEN-MINUS uni002D	-	-	
FULL STOP uni002E		•	
SOLIDUS uni002F	/	/	
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	<	<	
EQUALS SIGN uni003D	=	=	
GREATER-THAN SIGN uni003E	>	>	
QUESTION MARK uni003F	?	?	
COMMERCIAL AT uni0040	(a)	@	
LATIN CAPITAL LETTER A uni0041	Α	А	
LATIN CAPITAL LETTER B uni0042	В	В	
LATIN CARITAL LETTER C	С	0	
LATIN CAPITAL LETTER C uni0043		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 UNIO048	
LATIN CAPITAL LETTER I uni0049	
LATIN CAPITAL LETTER J uni004A	
LATIN CAPITAL LETTER K uni004B K	
LATIN CAPITAL LETTER L L uni004C	= =
LATIN CAPITAL LETTER M uni004D M	
LATIN CAPITAL LETTER N Uni004E	
LATIN CAPITAL LETTER O Uni004F	=
LATIN CAPITAL LETTER P uni0050	
LATIN CAPITAL LETTER Q UNIO051 Q	
LATIN CAPITAL LETTER R uni0052	
LATIN CAPITAL LETTER S uni0053	LATIN CAPITAL LETTER S
LATIN CAPITAL LETTER T T Uni0054	LATIN CAPITAL LETTER T uni0054
LATIN CAPITAL LETTER U Uni0055	
LATIN CAPITAL LETTER U U U	uni0055 LATIN CAPITAL LETTER V
LATIN CAPITAL LETTER U U U U U U U U U U U U U U U U U U U	uni0055 LATIN CAPITAL LETTER V uni0056 LATIN CAPITAL LETTER W
LATIN CAPITAL LETTER U UNIO055 LATIN CAPITAL LETTER V UNIO056 LATIN CAPITAL LETTER W W W	uni0055 LATIN CAPITAL LETTER V uni0056 LATIN CAPITAL LETTER W uni0057 LATIN CAPITAL LETTER X
LATIN CAPITAL LETTER U UNIO055 LATIN CAPITAL LETTER V UNIO056 LATIN CAPITAL LETTER W UNIO057 LATIN CAPITAL LETTER X X X	uni0055 LATIN CAPITAL LETTER V uni0056 LATIN CAPITAL LETTER W uni0057 LATIN CAPITAL LETTER X uni0058 LATIN CAPITAL LETTER Y
LATIN CAPITAL LETTER U UNIO055 LATIN CAPITAL LETTER V UNIO056 LATIN CAPITAL LETTER W UNIO057 LATIN CAPITAL LETTER X UNIO058 LATIN CAPITAL LETTER X Y Y	uni0055 LATIN CAPITAL LETTER V uni0056 LATIN CAPITAL LETTER W uni0057 LATIN CAPITAL LETTER X uni0058 LATIN CAPITAL LETTER Y uni0059 LATIN CAPITAL LETTER Z
LATIN CAPITAL LETTER U uni0055 LATIN CAPITAL LETTER V uni0056 LATIN CAPITAL LETTER W uni0057 LATIN CAPITAL LETTER X uni0058 LATIN CAPITAL LETTER Y uni0059 LATIN CAPITAL LETTER Z Z Z	uni0055 LATIN CAPITAL LETTER V uni0056 LATIN CAPITAL LETTER W uni0057 LATIN CAPITAL LETTER X uni0058 LATIN CAPITAL LETTER Y uni0059 LATIN CAPITAL LETTER Z uni005A LEFT SQUARE BRACKET
LATIN CAPITAL LETTER V UNIO055 LATIN CAPITAL LETTER V UNIO056 LATIN CAPITAL LETTER W UNIO057 LATIN CAPITAL LETTER X UNIO058 LATIN CAPITAL LETTER Y UNIO059 LATIN CAPITAL LETTER Z UNIO05A LEFT SQUARE BRACKET U U U U U V V V V V V V V	uni0055 LATIN CAPITAL LETTER V uni0056 LATIN CAPITAL LETTER W uni0057 LATIN CAPITAL LETTER X uni0058 LATIN CAPITAL LETTER Y uni0059 LATIN CAPITAL LETTER Z uni005A LEFT SQUARE BRACKET uni005B REVERSE SOLIDUS
LATIN CAPITAL LETTER V UNIO055 LATIN CAPITAL LETTER V UNIO056 LATIN CAPITAL LETTER W UNIO057 LATIN CAPITAL LETTER X UNIO058 LATIN CAPITAL LETTER Y UNIO059 LATIN CAPITAL LETTER Z UNIO05A LEFT SQUARE BRACKET UNIO05B REVERSE SOLIDUS	uni0055 LATIN CAPITAL LETTER V uni0056 LATIN CAPITAL LETTER W uni0057 LATIN CAPITAL LETTER X uni0058 LATIN CAPITAL LETTER Y uni0059 LATIN CAPITAL LETTER Z uni005A LEFT SQUARE BRACKET uni005B REVERSE SOLIDUS uni005C RIGHT SQUARE BRACKET
LATIN CAPITAL LETTER U uni0055 LATIN CAPITAL LETTER V uni0056 LATIN CAPITAL LETTER W uni0057 LATIN CAPITAL LETTER X uni0058 LATIN CAPITAL LETTER Y uni0059 LATIN CAPITAL LETTER Z uni005A LEFT SQUARE BRACKET uni005B REVERSE SOLIDUS uni005C RIGHT SQUARE BRACKET 1	uni0055 LATIN CAPITAL LETTER V uni0056 LATIN CAPITAL LETTER W uni0057 LATIN CAPITAL LETTER X uni0058 LATIN CAPITAL LETTER Y uni0059 LATIN CAPITAL LETTER Z uni005A LEFT SQUARE BRACKET uni005B REVERSE SOLIDUS uni005C RIGHT SQUARE BRACKET uni005D CIRCUMFLEX ACCENT
LATIN CAPITAL LETTER U uni0055 LATIN CAPITAL LETTER V uni0056 LATIN CAPITAL LETTER W uni0057 LATIN CAPITAL LETTER X uni0058 LATIN CAPITAL LETTER Y uni0059 LATIN CAPITAL LETTER Z uni005A LEFT SQUARE BRACKET uni005B REVERSE SOLIDUS uni005C RIGHT SQUARE BRACKET uni005D CIRCUMFLEX ACCENT	uni0055 LATIN CAPITAL LETTER V uni0056 LATIN CAPITAL LETTER W uni0057 LATIN CAPITAL LETTER X uni0058 LATIN CAPITAL LETTER Y uni0059 LATIN CAPITAL LETTER Z uni005A LEFT SQUARE BRACKET uni005B REVERSE SOLIDUS uni005C RIGHT SQUARE BRACKET uni005D CIRCUMFLEX ACCENT uni005E LOW LINE
LATIN CAPITAL LETTER U uni0055 LATIN CAPITAL LETTER V uni0056 LATIN CAPITAL LETTER W uni0057 LATIN CAPITAL LETTER X uni0058 LATIN CAPITAL LETTER Y uni0059 LATIN CAPITAL LETTER Z uni005A LEFT SQUARE BRACKET uni005B REVERSE SOLIDUS uni005C RIGHT SQUARE BRACKET uni005D CIRCUMFLEX ACCENT uni005E LOW LINE	uni0055 LATIN CAPITAL LETTER V uni0056 LATIN CAPITAL LETTER W uni0057 LATIN CAPITAL LETTER X uni0058 LATIN CAPITAL LETTER Y uni0059 LATIN CAPITAL LETTER Z uni005A LEFT SQUARE BRACKET uni005B REVERSE SOLIDUS uni005C RIGHT SQUARE BRACKET uni005D CIRCUMFLEX ACCENT uni005F LOW LINE uni005F GRAVE ACCENT
LATIN CAPITAL LETTER U uni0055 LATIN CAPITAL LETTER V uni0056 LATIN CAPITAL LETTER W uni0057 LATIN CAPITAL LETTER X uni0058 LATIN CAPITAL LETTER Y uni0059 LATIN CAPITAL LETTER Z uni005A LEFT SQUARE BRACKET uni005B REVERSE SOLIDUS uni005C RIGHT SQUARE BRACKET uni005D CIRCUMFLEX ACCENT uni005F LOW LINE uni005F GRAVE ACCENT	uni0055 LATIN CAPITAL LETTER V uni0056 LATIN CAPITAL LETTER W uni0057 LATIN CAPITAL LETTER X uni0058 LATIN CAPITAL LETTER Y uni0059 LATIN CAPITAL LETTER Z uni005A LEFT SQUARE BRACKET uni005B REVERSE SOLIDUS uni005C RIGHT SQUARE BRACKET uni005D CIRCUMFLEX ACCENT uni005E LOW LINE uni005F GRAVE ACCENT uni0060 LATIN SMALL LETTER A
LATIN CAPITAL LETTER U uni0055 LATIN CAPITAL LETTER V uni0056 LATIN CAPITAL LETTER W uni0057 LATIN CAPITAL LETTER X uni0058 LATIN CAPITAL LETTER Y uni0059 LATIN CAPITAL LETTER Z uni005A LEFT SQUARE BRACKET uni005B REVERSE SOLIDUS uni005C RIGHT SQUARE BRACKET uni005D CIRCUMFLEX ACCENT uni005F LOW LINE uni005F GRAVE ACCENT uni0060 LATIN SMALL LETTER A a	uni0055 LATIN CAPITAL LETTER V uni0056 LATIN CAPITAL LETTER W uni0057 LATIN CAPITAL LETTER X uni0058 LATIN CAPITAL LETTER Y uni0059 LATIN CAPITAL LETTER Z uni005A LEFT SQUARE BRACKET uni005B REVERSE SOLIDUS uni005C RIGHT SQUARE BRACKET uni005D CIRCUMFLEX ACCENT uni005D CIRCUMFLEX ACCENT uni005F GRAVE ACCENT uni0060 LATIN SMALL LETTER A uni0061 LATIN SMALL LETTER B uni0062

LATIN SMALL LETTER D uni0064	d	d
LATIN SMALL LETTER E uni0065	е	е
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	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	у
LATIN SMALL LETTER Z uni007A	Z	Z
LEFT CURLY BRACKET uni007B	{	{
VERTICAL LINE uni007C		I
RIGHT CURLY BRACKET uni007D	}	}
TILDE uni007E	~	_

uni00A1		
UIIIOOAI	i	i
CENT SIGN uni00A2	¢	¢
POUND SIGN uni00A3	£	£
YEN SIGN uni00A5	¥	¥
BROKEN BAR uni00A6	I	! !
SECTION SIGN uni00A7	§	§
DIAERESIS uni00A8		••
COPYRIGHT SIGN uni00A9	©	©
FEMININE ORDINAL INDICATOR uni00AA	<u>a</u>	<u>a</u>
LEFT-POINTING DOUBLE ANGLE QUOTATION MARK uni00AB	<<	«
NOT SIGN uni00AC	_	٦
REGISTERED SIGN uni00AE	R	®
MACRON uni00AF	_	-
DEGREE SIGN uni00B0	0	0
PLUS-MINUS SIGN uni00B1	±	±
SUPERSCRIPT TWO uni00B2	2	2
SUPERSCRIPT THREE uni00B3	3	3
ACUTE ACCENT uni00B4	/	1
MICRO SIGN uni00B5	μ	μ
PILCROW SIGN uni00B6	1	q
MIDDLE DOT uni00B7		•
CEDILLA uni00B8	٥	5
SUPERSCRIPT ONE uni00B9	1	1
MASCULINE ORDINAL INDICATOR uni00BA	0	<u>o</u>
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	3/4	3/4
uni00BE		
INVERTED QUESTION MARK uni00BF	غ	خ
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	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	×	×
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	ß
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
	ë	ë
uni00EB LATIN SMALL LETTER I WITH GRAVE	ì	
uni00EB LATIN SMALL LETTER I WITH GRAVE uni00EC LATIN SMALL LETTER I WITH ACUTE	`	Ì
uni00EB LATIN SMALL LETTER I WITH GRAVE uni00EC LATIN SMALL LETTER I WITH ACUTE uni00ED LATIN SMALL LETTER I WITH CIRCUMFLEX	ì	Ì
UNIONEB LATIN SMALL LETTER I WITH GRAVE UNIONEC LATIN SMALL LETTER I WITH ACUTE UNIONED LATIN SMALL LETTER I WITH CIRCUMFLEX UNIONEE LATIN SMALL LETTER I WITH DIAERESIS	ì	ì í î
UNIONEB LATIN SMALL LETTER I WITH GRAVE UNIONEC LATIN SMALL LETTER I WITH ACUTE UNIONED LATIN SMALL LETTER I WITH CIRCUMFLEX UNIONEE LATIN SMALL LETTER I WITH DIAERESIS UNIONEF LATIN SMALL LETTER ETH	ì í í	ì í î
UNIONEB LATIN SMALL LETTER I WITH GRAVE UNIONEC LATIN SMALL LETTER I WITH ACUTE UNIONED LATIN SMALL LETTER I WITH CIRCUMFLEX UNIONEE LATIN SMALL LETTER I WITH DIAERESIS UNIONEF LATIN SMALL LETTER ETH UNIONEO LATIN SMALL LETTER N WITH TILDE	ì í í î ñ ò	ì í î ï
UNIONEB LATIN SMALL LETTER I WITH GRAVE UNIONEC LATIN SMALL LETTER I WITH ACUTE UNIONED LATIN SMALL LETTER I WITH CIRCUMFLEX UNIONEE LATIN SMALL LETTER I WITH DIAERESIS UNIONEF LATIN SMALL LETTER ETH UNIONFO LATIN SMALL LETTER N WITH TILDE UNIONF1 LATIN SMALL LETTER O WITH GRAVE	ì í í î ř ř ř	ì í í í ñ

LATIN SMALL LETTER O WITH TILDE uni00F5	õ	õ
	Ö	ö
LATIN SMALL LETTER O WITH DIAERESIS uni00F6		
DIVISION SIGN uni00F7	÷	<u>.</u>
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 SMALL LETTER DOTLESS I uni0131	I	I
LATIN CAPITAL LETTER L WITH STROKE uni0141	Ł	Ł
LATIN SMALL LETTER L WITH STROKE uni0142	ł	ł
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	Ϋ
LATIN CAPITAL LETTER Z WITH CARON uni017D	Ž	Ž
LATIN SMALL LETTER Z WITH CARON uni017E	ž	ž
LATIN SMALL LETTER F WITH HOOK	f	C
uni0192 MODIFIER LETTER CIRCUMFLEX ACCENT		f
uni02C6	V	~
uni02C7	J	J
BREVE uni02D8		•
DOT ABOVE uni02D9		

o	0	RING ABOVE uni02DA
c	د	OGONEK uni02DB
~	~	
		SMALL TILDE uni02DC
~	//	DOUBLE ACUTE ACCENT uni02DD
Π	π	GREEK SMALL LETTER PI uni03C0
-	-	EN DASH uni2013
_	_	EM DASH uni2014
6	1	LEFT SINGLE QUOTATION MARK uni2018
,	I	RIGHT SINGLE QUOTATION MARK uni2019
,	1	SINGLE LOW-9 QUOTATION MARK uni201A
66	11	LEFT DOUBLE QUOTATION MARK uni201C
"	"	RIGHT DOUBLE QUOTATION MARK uni201D
"	11	DOUBLE LOW-9 QUOTATION MARK uni201E
†	†	DAGGER uni2020
‡	‡	DOUBLE DAGGER uni2021
•	•	BULLET uni2022
•••		HORIZONTAL ELLIPSIS uni2026
% 00	%0	PER MILLE SIGN uni2030
<	<	SINGLE LEFT-POINTING ANGLE QUOTATION MARK uni2039
>	>	SINGLE RIGHT-POINTING ANGLE QUOTATION MARK uni203A
/	/	FRACTION SLASH uni2044
0	0	SUBSCRIPT ZERO uni2080
1	1	SUBSCRIPT ONE uni2081
2	2	SUBSCRIPT TWO uni2082
3	3	SUBSCRIPT THREE uni2083
4	4	SUBSCRIPT FOUR uni2084
5	5	SUBSCRIPT FIVE uni2085
		SUBSCRIPT SIX

SUBSCRIPT SIX























