

### 3.8 Block-by-Block Charts

The block-by-block charts contain the listing of the Unicode character names. Each Unicode character, except for the East Asian ideographic characters and Hangul syllables, is given a unique name. The character names contain only upper-case Latin letters A through Z, SPACE, and HYPHEN-MINUS; this convention makes it easy to generate computer language identifiers automatically from the Unicode character names.

The code chart for each character block is repeated with the names listing for convenience of reference. Each chart is enlarged to show the appearance of small characters more clearly.

The names listing also contains clarificatory comments, as well as common character aliases and cross-references to other characters which could be confused with the character in question. For a detailed description of the conventions used in this section, see the “Notations and Conventions” section in the front matter of this volume.

	000	001	002	003	004	005	006	007
0	NUL	DLE	SPACE	0	@	P	`	p
1	SOH	DC1	!	1	A	Q	a	q
2	STX	DC2	"	2	B	R	b	r
3	ETX	DC3	#	3	C	S	c	s
4	EOT	DC4	\$\$	4	D	T	d	t
5	ENQ	NAK	%	5	E	U	e	u
6	ACK	SYN	&	6	F	V	f	v
7	BEL	ETB	'	7	G	W	g	w
8	BS	CAN	(	8	H	X	h	x
9	HT	EM	)	9	I	Y	i	y
A	LF	SUB	*	:	J	Z	j	z
B	VT	ESC	+	;	K	[	k	{
C	FF	FS	,	<	L	\	l	
D	CR	GS	-	=	M	]	m	}
E	SO	RS	.	>	N	^	n	~ ~
F	SI	US	/	?	O	_	o	DEL

C0 ASCII control codes	
0000	NUL NULL
0001	SOH START OF HEADING
0002	STX START OF TEXT
0003	ETX END OF TEXT
0004	EOT END OF TRANSMISSION
0005	ENQ ENQUIRY
0006	ACK ACKNOWLEDGE
0007	BEL BELL
0008	BS BACKSPACE
0009	HT HORIZONTAL TABULATION
000A	LF LINE FEED
000B	VT VERTICAL TABULATION
000C	FF FORM FEED
000D	CR CARRIAGE RETURN
000E	SO SHIFT OUT
000F	SI SHIFT IN
0010	DLE DATA LINK ESCAPE
0011	DC1 DEVICE CONTROL ONE
0012	DC2 DEVICE CONTROL TWO
0013	DC3 DEVICE CONTROL THREE
0014	DC4 DEVICE CONTROL FOUR
0015	NAK NEGATIVE ACKNOWLEDGE
0016	SYN SYNCHRONOUS IDLE
0017	ETB END OF TRANSMISSION BLOCK
0018	CAN CANCEL
0019	EM END OF MEDIUM
001A	SUB SUBSTITUTE × (replacement character → FFFD)
001B	ESC ESCAPE
001C	FS FILE SEPARATOR
001D	GS GROUP SEPARATOR
001E	RS RECORD SEPARATOR
001F	US UNIT SEPARATOR

## ASCII

0020	<span style="border: 1px dashed black; padding: 2px;">SPACE</span> SPACE sometimes considered a control code other space characters: 2000-200B × (non-breaking space → 00A0) × (ideographic space → 3000)
0021	! EXCLAMATION MARK = factorial × (inverted exclamation mark → 00A1) × (latin letter exclamation mark → 01C3) × (double exclamation mark → 203C) × (heavy exclamation mark ornament → 2762)

0022	" QUOTATION MARK = APL quote neutral (vertical), used as opening or closing quotation mark preferred characters for paired quotation marks are 201C & 201D × (modifier letter double prime → 02BA) × (non-spacing double acute → 030B) × (non-spacing double vertical line above → 030E) × (double turned comma quotation mark → 201C) × (double comma quotation mark → 201D) × (double prime → 2033)
0023	# NUMBER SIGN = pound sign
0024	⌘ DOLLAR SIGN = milreis = escudo either glyph is acceptable this code is unambiguously dollar sign, not "currency sign" or any other currency symbol × (currency sign → 00A4)
0025	% PERCENT SIGN × (arabic percent sign → 066A) × (per mille sign → 2030) × (per ten thousand sign → 2031)
0026	& AMPERSAND
0027	' APOSTROPHE-QUOTE = ISO APOSTROPHE neutral (vertical) glyph having mixed usage preferred character for apostrophe is 02BC preferred character for opening single quotation mark is 2018 preferred character for closing single quotation mark is 2019 × (modifier letter prime → 02B9) × (modifier letter apostrophe → 02BC) × (modifier letter vertical line → 02C8) × (non-spacing acute → 0301) × (single turned comma quotation mark → 2018) × (single comma quotation mark → 2019) × (prime → 2032)
0028	( OPENING PARENTHESIS = ISO LEFT PARENTHESIS
0029	) CLOSING PARENTHESIS = ISO RIGHT PARENTHESIS see discussion on semantics of paired bracketing characters
002A	* ASTERISK × (asterisk operator → 2217) × (heavy asterisk → 2731)
002B	+ PLUS SIGN

002C	,	COMMA	<ul style="list-style-type: none"> <li>× (<i>arabic comma</i> → 060C)</li> <li>× (<i>ideographic comma</i> → 3001)</li> </ul>
002D	–	HYPHEN-MINUS	<ul style="list-style-type: none"> <li>= <i>hyphen or minus sign</i></li> <li>= <i>hyphus</i></li> <li><i>used for either hyphen or minus sign</i></li> <li><i>other hyphen and dash characters:</i></li> <li>2010-2015</li> <li>× (<i>hyphen</i> → 2010)</li> <li>× (<i>non-breaking hyphen</i> → 2011)</li> <li>× (<i>minus sign</i> → 2212)</li> </ul>
002E	.	PERIOD	<ul style="list-style-type: none"> <li>= <i>ISO FULL STOP</i></li> <li>× (<i>ideographic period</i> → 3002)</li> </ul>
002F	/	SLASH	<ul style="list-style-type: none"> <li>= <i>ISO SOLIDUS</i></li> <li>= <i>virgule</i></li> <li>= <i>shilling (British)</i></li> <li>× (<i>latin letter pipe</i> → 01C0)</li> <li>× (<i>fraction slash</i> → 2044)</li> <li>× (<i>division slash</i> → 2215)</li> </ul>
0030	0	DIGIT ZERO	
0031	1	DIGIT ONE	
0032	2	DIGIT TWO	
0033	3	DIGIT THREE	
0034	4	DIGIT FOUR	
0035	5	DIGIT FIVE	
0036	6	DIGIT SIX	
0037	7	DIGIT SEVEN	
0038	8	DIGIT EIGHT	
0039	9	DIGIT NINE	
003A	:	COLON	<ul style="list-style-type: none"> <li>× (<i>armenian period</i> → 0589)</li> <li>× (<i>ratio</i> → 2236)</li> </ul>
003B	;	SEMICOLON	<ul style="list-style-type: none"> <li>× (<i>greek question mark</i> → 03D7)</li> <li>× (<i>arabic semicolon</i> → 061B)</li> </ul>
003C	<	LESS-THAN SIGN	<ul style="list-style-type: none"> <li>× (<i>left pointing single guillemet</i> → 2039)</li> <li>× (<i>bra</i> → 2329)</li> <li>× (<i>opening angle bracket</i> → 3008)</li> </ul>
003D	=	EQUALS SIGN	<ul style="list-style-type: none"> <li>× (<i>not equal to</i> → 2260)</li> </ul>
003E	>	GREATER-THAN SIGN	<ul style="list-style-type: none"> <li>× (<i>right pointing single guillemet</i> → 203A)</li> <li>× (<i>ket</i> → 232A)</li> <li>× (<i>closing angle bracket</i> → 3009)</li> </ul>
003F	?	QUESTION MARK	<ul style="list-style-type: none"> <li>× (<i>inverted question mark</i> → 00BF)</li> <li>× (<i>greek question mark</i> → 03D7)</li> <li>× (<i>arabic question mark</i> → 061F)</li> <li>× (<i>interrobang</i> → 203D)</li> </ul>
0040	@	COMMERCIAL AT	

0041	A	LATIN CAPITAL LETTER A	
0042	B	LATIN CAPITAL LETTER B	<ul style="list-style-type: none"> <li>× (<i>script b</i> → 212C)</li> </ul>
0043	C	LATIN CAPITAL LETTER C	<ul style="list-style-type: none"> <li>× (<i>double-struck c</i> → 2102)</li> <li>× (<i>black-letter c</i> → 212D)</li> </ul>
0044	D	LATIN CAPITAL LETTER D	
0045	E	LATIN CAPITAL LETTER E	<ul style="list-style-type: none"> <li>× (<i>eulers</i> → 2107)</li> <li>× (<i>script e</i> → 2130)</li> </ul>
0046	F	LATIN CAPITAL LETTER F	<ul style="list-style-type: none"> <li>× (<i>script f</i> → 2131)</li> <li>× (<i>turned f</i> → 2132)</li> </ul>
0047	G	LATIN CAPITAL LETTER G	
0048	H	LATIN CAPITAL LETTER H	<ul style="list-style-type: none"> <li>× (<i>script h</i> → 210B)</li> <li>× (<i>black-letter h</i> → 210C)</li> <li>× (<i>double-struck h</i> → 210D)</li> </ul>
0049	I	LATIN CAPITAL LETTER I	<ul style="list-style-type: none"> <li>× (<i>latin capital letter i dot</i> → 0130)</li> <li>× (<i>latin small letter dotless i</i> → 0131)</li> <li>× (<i>script i</i> → 2110)</li> <li>× (<i>black-letter i</i> → 2111)</li> </ul>
004A	J	LATIN CAPITAL LETTER J	
004B	K	LATIN CAPITAL LETTER K	<ul style="list-style-type: none"> <li>× (<i>degrees kelvin</i> → 212A)</li> </ul>
004C	L	LATIN CAPITAL LETTER L	<ul style="list-style-type: none"> <li>× (<i>script l</i> → 2112)</li> </ul>
004D	M	LATIN CAPITAL LETTER M	<ul style="list-style-type: none"> <li>× (<i>script m</i> → 2133)</li> </ul>
004E	N	LATIN CAPITAL LETTER N	<ul style="list-style-type: none"> <li>× (<i>double-struck n</i> → 2115)</li> </ul>
004F	O	LATIN CAPITAL LETTER O	
0050	P	LATIN CAPITAL LETTER P	<ul style="list-style-type: none"> <li>× (<i>script p</i> → 2118)</li> <li>× (<i>double-struck p</i> → 2119)</li> </ul>
0051	Q	LATIN CAPITAL LETTER Q	<ul style="list-style-type: none"> <li>× (<i>double-struck q</i> → 211A)</li> </ul>
0052	R	LATIN CAPITAL LETTER R	<ul style="list-style-type: none"> <li>× (<i>script r</i> → 211B)</li> <li>× (<i>black-letter r</i> → 211C)</li> <li>× (<i>double-struck r</i> → 211D)</li> </ul>
0053	S	LATIN CAPITAL LETTER S	
0054	T	LATIN CAPITAL LETTER T	
0055	U	LATIN CAPITAL LETTER U	
0056	V	LATIN CAPITAL LETTER V	
0057	W	LATIN CAPITAL LETTER W	
0058	X	LATIN CAPITAL LETTER X	
0059	Y	LATIN CAPITAL LETTER Y	
005A	Z	LATIN CAPITAL LETTER Z	<ul style="list-style-type: none"> <li>× (<i>double-struck z</i> → 2124)</li> <li>× (<i>black-letter z</i> → 2128)</li> </ul>



005B	[	OPENING SQUARE BRACKET = ISO LEFT SQUARE BRACKET other bracket characters: 3008-301B	0071	q	LATIN SMALL LETTER Q
005C	\	BACKSLASH = ISO REVERSE SOLIDUS × (set minus → 2216)	0072	r	LATIN SMALL LETTER R
005D	]	CLOSING SQUARE BRACKET = ISO RIGHT SQUARE BRACKET	0073	s	LATIN SMALL LETTER S
005E	^	SPACING CIRCUMFLEX = ISO CIRCUMFLEX ACCENT this is a spacing character × (modifier letter up arrowhead → 02C4) × (modifier letter circumflex → 02C6) × (non-spacing circumflex → 0302) × (up arrowhead → 2303)	0074	t	LATIN SMALL LETTER T
005F	—	SPACING UNDERSCORE = ISO LOW LINE this is a spacing character × (modifier letter low macron → 02CD) × (non-spacing macron below → 0331) × (non-spacing underscore → 0332) × (spacing double underscore → 2017)	0075	u	LATIN SMALL LETTER U
0060	`	SPACING GRAVE = ISO GRAVE ACCENT this is a spacing character × (modifier letter grave → 02CB) × (non-spacing grave → 0300) × (reversed prime → 2035)	0076	v	LATIN SMALL LETTER V
0061	a	LATIN SMALL LETTER A	0077	w	LATIN SMALL LETTER W
0062	b	LATIN SMALL LETTER B	0078	x	LATIN SMALL LETTER X
0063	c	LATIN SMALL LETTER C	0079	y	LATIN SMALL LETTER Y
0064	d	LATIN SMALL LETTER D	007A	z	LATIN SMALL LETTER Z × (latin small letter z bar → 01B6)
0065	e	LATIN SMALL LETTER E × (estimated symbol → 212E) × (script small e → 212F)	007B	{	OPENING CURLY BRACKET = ISO LEFT CURLY BRACKET = opening brace
0066	f	LATIN SMALL LETTER F	007C		VERTICAL BAR = ISO VERTICAL LINE × (latin letter pipe → 01C0) × (divides → 2223) × (light vertical bar → 2758)
0067	g	LATIN SMALL LETTER G × (latin small letter script g → 0261) × (script small g → 210A)	007D	}	CLOSING CURLY BRACKET = ISO RIGHT CURLY BRACKET = closing brace
0068	h	LATIN SMALL LETTER H × (cyrillic small letter h → 04BB) × (planck constant → 210E)	007E	~	TILDE this is a spacing character × (spacing tilde → 02DC) × (non-spacing tilde → 0303) × (tilde operator → 223C)
0069	i	LATIN SMALL LETTER I × (latin capital letter i dot → 0130) × (latin small letter dotless i → 0131)	007F	DEL	DELETE control code
006A	j	LATIN SMALL LETTER J			
006B	k	LATIN SMALL LETTER K			
006C	l	LATIN SMALL LETTER L × (script small l → 2113)			
006D	m	LATIN SMALL LETTER M			
006E	n	LATIN SMALL LETTER N			
006F	o	LATIN SMALL LETTER O × (script small o → 2134)			
0070	p	LATIN SMALL LETTER P			

	008	009	00A	00B	00C	00D	00E	00F
0	CTRL	CTRL	<span style="border: 1px dashed black; padding: 2px;">NB SP</span>	°	À	Ð	à	ð
1	CTRL	CTRL	¡	±	Á	Ñ	á	ñ
2	CTRL	CTRL	¢	<sup>2</sup>	Â	Ò	â	ò
3	CTRL	CTRL	£	<sup>3</sup>	Ã	Ó	ã	ó
4	CTRL	CTRL	¤	'	Ä	Ô	ä	ô
5	CTRL	CTRL	¥ Y	µ	Å	Õ	å	õ
6	CTRL	CTRL		¶	Æ	Ö	æ	ö
7	CTRL	CTRL	§	·	Ç	×	ç	÷
8	CTRL	CTRL	¨	,	È	Ø	è	ø
9	CTRL	CTRL	©	<sup>1</sup>	É	Ù	é	ù
A	CTRL	CTRL	<u>a</u>	<u>o</u>	Ê	Ú	ê	ú
B	CTRL	CTRL	«	»	Ë	Û	ë	û
C	CTRL	CTRL	¬	$\frac{1}{4} \frac{1}{4}$	Ì	Ü	ì	ü
D	CTRL	CTRL	—	$\frac{1}{2} \frac{1}{2}$	Í	Ý	í	ý
E	CTRL	CTRL	®	$\frac{3}{4} \frac{3}{4}$	Î	Þ	î	þ
F	CTRL	CTRL	—	¿	Ï	ß	ï	ÿ

## C1 control codes

Codes 0080 - 009F reserved for control codes

## ISO 8859-1 (aka Latin1)

00A0	␣	NON-BREAKING SPACE = ISO NO-BREAK SPACE × (space → 0020)
00A1	¡	INVERTED EXCLAMATION MARK <i>Spanish</i> × (exclamation mark → 0021)
00A2	¢	CENT SIGN
00A3	£	POUND SIGN = pound sterling × (lira sign → 20A4)
00A4	¤	CURRENCY SIGN other currency symbol characters: 20A0-20CF × (dollar sign → 0024)
00A5	¥	YEN SIGN = yuan sign either glyph is acceptable
00A6	¦	BROKEN VERTICAL BAR = ISO BROKEN BAR
00A7	§	SECTION SIGN <i>linked s's</i> <i>paragraph sign in some European usage</i>
00A8	¨	SPACING DIAERESIS = ISO DIAERESIS <i>this is a spacing character</i> × (non-spacing diaeresis → 0308)
00A9	©	COPYRIGHT SIGN × (sound recording copyright → 2117)
00AA	ª	FEMININE ORDINAL INDICATOR <i>Spanish</i>
00AB	«	LEFT POINTING GUILLEMET = ISO LEFT-POINTING DOUBLE ANGLE QUOTATION MARK <i>usually opening, sometimes closing</i> × (much less than → 226A) × (opening double angle bracket → 300A)
00AC	¬	NOT SIGN × (reversed not sign → 2310)
00AD	–	SOFT HYPHEN = discretionary hyphen
00AE	®	REGISTERED TRADE MARK SIGN = ISO REGISTERED SIGN
00AF	¯	SPACING MACRON = ISO MACRON = overline = APL overbar <i>this is a spacing character</i> × (modifier letter macron → 02C9) × (non-spacing macron → 0304) × (non-spacing overscore → 0305)

00B0	°	DEGREE SIGN <i>this is a spacing character</i> × (spacing ring above → 02DA) × (non-spacing ring above → 030A) × (ring operator → 2218)
00B1	±	PLUS-OR-MINUS SIGN = ISO PLUS-MINUS SIGN × (minus-or-plus sign → 2213)
00B2	²	SUPERSCRIPIT DIGIT TWO = ISO SUPERSCRIPIT TWO = squared × (superscript digit one → 00B9)
00B3	³	SUPERSCRIPIT DIGIT THREE = ISO SUPERSCRIPIT THREE = cubed × (superscript digit one → 00B9)
00B4	´	SPACING ACUTE = ISO ACUTE ACCENT <i>this is a spacing character</i> × (modifier letter prime → 02B9) × (modifier letter acute → 02CA) × (non-spacing acute → 0301) × (prime → 2032)
00B5	μ	MICRO SIGN × (greek small letter mu → 03BC)
00B6	¶	PARAGRAPH SIGN = ISO PILCROW SIGN <i>reversed PH ligature</i> <i>section sign in some European usage</i> × (curved stem paragraph sign ornament → 2761)
00B7	·	MIDDLE DOT = Georgian comma = Greek middle dot × (bullet → 2022) × (one dot leader → 2024) × (bullet operator → 2219) × (dot operator → 22C5) × (katakana middle dot → 30FB)
00B8	¸	SPACING CEDILLA = ISO CEDILLA <i>this is a spacing character</i> other spacing accent characters: 02D8-02DB × (non-spacing cedilla → 0327)
00B9	¹	SUPERSCRIPIT DIGIT ONE = ISO SUPERSCRIPIT ONE other superscript digit characters: 2070-2079 × (superscript digit two → 00B2) × (superscript digit three → 00B3)
00BA	º	MASCULINE ORDINAL INDICATOR <i>Spanish</i>

00BB	»	RIGHT POINTING GUILLEMET = ISO RIGHT-POINTING DOUBLE ANGLE QUOTATION MARK usually closing, sometimes opening × (much greater than → 226B) × (closing double angle bracket → 300B)	00D4	Ô	LATIN CAPITAL LETTER O CIRCUMFLEX
00BC	$\frac{1}{4}$	FRACTION ONE QUARTER = ISO VULGAR FRACTION ONE QUARTER either glyph is acceptable	00D5	Õ	LATIN CAPITAL LETTER O TILDE
00BD	$\frac{1}{2}$	FRACTION ONE HALF = ISO VULGAR FRACTION ONE HALF either glyph is acceptable	00D6	Ö	LATIN CAPITAL LETTER O DIAERESIS
00BE	$\frac{3}{4}$	FRACTION THREE QUARTERS = ISO VULGAR FRACTION THREE QUARTERS either glyph is acceptable other fraction characters: 2153-215E	00D7	×	MULTIPLICATION SIGN
00BF	¿	INVERTED QUESTION MARK = turned question mark Spanish × (question mark → 003F)	00D8	Ø	LATIN CAPITAL LETTER O SLASH = ISO LATIN CAPITAL LETTER O WITH STROKE × (empty set → 2205)
00C0	À	LATIN CAPITAL LETTER A GRAVE = ISO LATIN CAPITAL LETTER A WITH GRAVE (many of the following have similar name transformations)	00D9	Û	LATIN CAPITAL LETTER U GRAVE
00C1	Á	LATIN CAPITAL LETTER A ACUTE	00DA	Ú	LATIN CAPITAL LETTER U ACUTE
00C2	Â	LATIN CAPITAL LETTER A CIRCUMFLEX	00DB	Û	LATIN CAPITAL LETTER U CIRCUMFLEX
00C3	Ã	LATIN CAPITAL LETTER A TILDE	00DC	Ü	LATIN CAPITAL LETTER U DIAERESIS
00C4	Ä	LATIN CAPITAL LETTER A DIAERESIS	00DD	Ý	LATIN CAPITAL LETTER Y ACUTE
00C5	Å	LATIN CAPITAL LETTER A RING = ISO LATIN CAPITAL LETTER A WITH RING ABOVE × (angstrom unit → 212B)	00DE	Ð	LATIN CAPITAL LETTER THORN
00C6	Æ	LATIN CAPITAL LETTER A E = ISO LATIN CAPITAL LETTER AE	00DF	ß	LATIN SMALL LETTER SHARP S = ess-zed German uppercase is "SS" × (greek small letter beta → 03B2)
00C7	Ç	LATIN CAPITAL LETTER C CEDILLA	00E0	à	LATIN SMALL LETTER A GRAVE = ISO LATIN SMALL LETTER A WITH GRAVE (many of the following have similar name transformations)
00C8	È	LATIN CAPITAL LETTER E GRAVE	00E1	á	LATIN SMALL LETTER A ACUTE
00C9	É	LATIN CAPITAL LETTER E ACUTE	00E2	â	LATIN SMALL LETTER A CIRCUMFLEX
00CA	Ê	LATIN CAPITAL LETTER E CIRCUMFLEX	00E3	ã	LATIN SMALL LETTER A TILDE Portuguese
00CB	Ë	LATIN CAPITAL LETTER E DIAERESIS	00E4	ä	LATIN SMALL LETTER A DIAERESIS
00CC	Ì	LATIN CAPITAL LETTER I GRAVE	00E5	å	LATIN SMALL LETTER A RING = ISO LATIN SMALL LETTER A WITH RING ABOVE Danish, Norwegian, Swedish
00CD	Í	LATIN CAPITAL LETTER I ACUTE	00E6	æ	LATIN SMALL LETTER A E = ISO LATIN SMALL LETTER AE IPA × (latin small letter o e → 0153)
00CE	Î	LATIN CAPITAL LETTER I CIRCUMFLEX	00E7	ç	LATIN SMALL LETTER C CEDILLA
00CF	Ï	LATIN CAPITAL LETTER I DIAERESIS	00E8	è	LATIN SMALL LETTER E GRAVE
00D0	Ð	LATIN CAPITAL LETTER ETH × (latin small letter eth → 00F0) × (latin capital letter d bar → 0110) × (latin capital letter african d → 0189)	00E9	é	LATIN SMALL LETTER E ACUTE
00D1	Ñ	LATIN CAPITAL LETTER N TILDE	00EA	ê	LATIN SMALL LETTER E CIRCUMFLEX
00D2	Ò	LATIN CAPITAL LETTER O GRAVE	00EB	ë	LATIN SMALL LETTER E DIAERESIS
00D3	Ó	LATIN CAPITAL LETTER O ACUTE	00EC	ì	LATIN SMALL LETTER I GRAVE Italian, Malagash
			00ED	í	LATIN SMALL LETTER I ACUTE
			00EE	î	LATIN SMALL LETTER I CIRCUMFLEX
			00EF	ï	LATIN SMALL LETTER I DIAERESIS
			00F0	ð	LATIN SMALL LETTER ETH Icelandic, Faroese, old English, IPA × (latin capital letter eth → 00D0)
			00F1	ñ	LATIN SMALL LETTER N TILDE
			00F2	ò	LATIN SMALL LETTER O GRAVE

00F3	ó	LATIN SMALL LETTER O ACUTE
00F4	ô	LATIN SMALL LETTER O CIRCUMFLEX
00F5	õ	LATIN SMALL LETTER O TILDE <i>Portuguese, Estonian</i>
00F6	ö	LATIN SMALL LETTER O DIAERESIS
00F7	÷	DIVISION SIGN
00F8	ø	LATIN SMALL LETTER O SLASH = ISO LATIN SMALL LETTER O WITH STROKE <i>Danish, Norwegian, Faroese, IPA</i>
00F9	ù	LATIN SMALL LETTER U GRAVE <i>French, Italian</i>
00FA	ú	LATIN SMALL LETTER U ACUTE
00FB	û	LATIN SMALL LETTER U CIRCUMFLEX
00FC	ü	LATIN SMALL LETTER U DIAERESIS
00FD	ý	LATIN SMALL LETTER Y ACUTE <i>Czech, Slovak, Icelandic, Faroese, Malagash</i>
00FE	þ	LATIN SMALL LETTER THORN <i>Icelandic, old English, IPA</i> <i>Runic letter borrowed into Latin script</i>
00FF	ÿ	LATIN SMALL LETTER Y DIAERESIS <i>French</i> × ( <i>latin capital letter y diaeresis</i> → 0178)



	010	011	012	013	014	015	016	017
0	Ā	Ð	Ġ	İ	Ĺ	Ŏ	Š	Ů
1	ā	ð	ġ	ı	ł	ő	š	ů
2	Ǻ	Ē	Ģ	IJ	Ł	Œ	Ț Ț	Ț
3	ǻ	ē	ģ ģ ģ	ij	ł	œ	ț ț	ț
4	Ą	Ĕ	Ĥ	Ĵ	ń	Ŕ	Ț Ț'	Ŵ
5	ą	ĕ	ĥ	ĵ	Ń	ŕ	ț ț'	ŵ
6	Ć	Ė	Ħ	Ķ	ņ	Ŗ	Ț	Ŷ
7	ć	ė	ħ	ķ	ņ	ŗ	ț	ŷ
8	Ĉ	Ė	Ī	κ	ň	Ř	Ů	Ÿ
9	ĉ	ę	ī	ł	ň	ř	ů	ž
A	Ċ	Ĕ	Ī	Í	ŋ N	Ś	Ū	ž
B	ċ	ę	ī	ł	ŋ	ś	ū	ž
C	Č	Ĝ	Ĭ	Ĵ	Ō	Ŝ	Ů	ž
D	č	ĝ	ĭ	ł L	ō	ŝ	ů	ž
E	Ď D'	Ĝ	Ĭ	Ĵ P	Ŏ	Ś Ś	Ū	ž
F	ď d'	ġ	ĵ	ł	ő	ś ś	ů	

European Latin					
0100	Ā	LATIN CAPITAL LETTER A MACRON	0118	Ē	LATIN CAPITAL LETTER E OGONEK
0101	ā	LATIN SMALL LETTER A MACRON = ISO LATIN ... LETTER A WITH MACRON <i>Latvian, ...</i>	0119	ė	LATIN SMALL LETTER E OGONEK <i>Polish, Lithuanian, ...</i>
0102	Ă	LATIN CAPITAL LETTER A BREVE	011A	Ĕ	LATIN CAPITAL LETTER E HACEK
0103	ă	LATIN SMALL LETTER A BREVE <i>Romanian, Vietnamese, ...</i>	011B	ě	LATIN SMALL LETTER E HACEK <i>Czech, ...</i>
0104	Ą	LATIN CAPITAL LETTER A OGONEK	011C	Ĝ	LATIN CAPITAL LETTER G CIRCUMFLEX
0105	ą	LATIN SMALL LETTER A OGONEK <i>Polish, Lithuanian, ...</i>	011D	ĝ	LATIN SMALL LETTER G CIRCUMFLEX <i>Esperanto</i>
0106	Ć	LATIN CAPITAL LETTER C ACUTE	011E	Ğ	LATIN CAPITAL LETTER G BREVE
0107	ć	LATIN SMALL LETTER C ACUTE <i>Polish, Croatian, ...</i> × ( <i>cyrillic small letter tshe</i> → 045B)	011F	ğ	LATIN SMALL LETTER G BREVE <i>Turkish</i> × ( <i>latin small letter g hacek</i> → 01E7)
0108	Ĉ	LATIN CAPITAL LETTER C CIRCUMFLEX	0120	Ġ	LATIN CAPITAL LETTER G DOT
0109	ĉ	LATIN SMALL LETTER C CIRCUMFLEX <i>Esperanto</i>	0121	ġ	LATIN SMALL LETTER G DOT <i>Maltese, ...</i>
010A	Ċ	LATIN CAPITAL LETTER C DOT	0122	Ģ	LATIN CAPITAL LETTER G CEDILLA
010B	ċ	LATIN SMALL LETTER C DOT = ISO LATIN ... LETTER C WITH DOT ABOVE <i>Maltese</i>	0123	ģ	LATIN SMALL LETTER G CEDILLA <i>Latvian, Lappish</i> <i>there are three glyph variants</i>
010C	Č	LATIN CAPITAL LETTER C HACEK	0124	Ĥ	LATIN CAPITAL LETTER H CIRCUMFLEX
010D	č	LATIN SMALL LETTER C HACEK = ISO LATIN ... LETTER C WITH CARON ( <i>many</i> )	0125	ĥ	LATIN SMALL LETTER H CIRCUMFLEX <i>Esperanto</i>
010E	Ď	LATIN CAPITAL LETTER D HACEK <i>the form using hacek is preferred in all contexts</i>	0126	Ħ	LATIN CAPITAL LETTER H BAR
010F	ď	LATIN SMALL LETTER D HACEK <i>Czech, Slovak</i> <i>the form using apostrophe is preferred in typesetting</i>	0127	ħ	LATIN SMALL LETTER H BAR <i>Maltese, IPA, ...</i> × ( <i>cyrillic small letter tshe</i> → 045B) × ( <i>planck constant over 2 pi</i> → 210F)
0110	Ð	LATIN CAPITAL LETTER D BAR × ( <i>latin capital letter eth</i> → 00D0) × ( <i>latin small letter d bar</i> → 0111) × ( <i>latin capital letter african d</i> → 0189)	0128	İ	LATIN CAPITAL LETTER I TILDE
0111	đ	LATIN SMALL LETTER D BAR = ISO LATIN ... LETTER D WITH STROKE <i>Croatian, Vietnamese, Lappish</i> × ( <i>latin capital letter d bar</i> → 0110) × ( <i>cyrillic small letter dje</i> → 0452)	0129	ĩ	LATIN SMALL LETTER I TILDE <i>Greenlandic</i>
0112	Ē	LATIN CAPITAL LETTER E MACRON	012A	Ī	LATIN CAPITAL LETTER I MACRON
0113	ē	LATIN SMALL LETTER E MACRON <i>Latvian, ...</i>	012B	ī	LATIN SMALL LETTER I MACRON <i>Latvian, ...</i>
0114	Ē	LATIN CAPITAL LETTER E BREVE	012C	Ĭ	LATIN CAPITAL LETTER I BREVE
0115	ē	LATIN SMALL LETTER E BREVE <i>Malay, ...</i>	012D	ĩ	LATIN SMALL LETTER I BREVE <i>Latin, ...</i>
0116	Ē	LATIN CAPITAL LETTER E DOT	012E	Į	LATIN CAPITAL LETTER I OGONEK
0117	ė	LATIN SMALL LETTER E DOT <i>Lithuanian</i>	012F	į	LATIN SMALL LETTER I OGONEK <i>Lithuanian, ...</i>
			0130	İ	LATIN CAPITAL LETTER I DOT = ISO LATIN CAPITAL LETTER I WITH DOT ABOVE <i>Turkish</i> <i>has same lowercase as does 0049 LATIN CAPITAL LETTER I</i> <i>providing a unique caseform clone for this letter would seem contrary to current practice</i> × ( <i>latin capital letter i</i> → 0049) × ( <i>latin small letter i</i> → 0069)

0131	ı	LATIN SMALL LETTER DOTLESS I = ISO LATIN SMALL LETTER I WITH NO DOT <i>Turkish</i> has same uppercase as does 0069 LATIN SMALL LETTER I providing a unique caseform clone for this letter would seem contrary to current practice × (latin capital letter i → 0049) × (latin small letter i → 0069)	0149	ɳ	LATIN SMALL LETTER APOSTROPHE N = ISO LATIN SMALL LETTER N PRECEDED BY APOSTROPHE <i>Afrikaans</i> this is not actually a single letter
0132	IJ	LATIN CAPITAL LETTER I J	014A	Ŋ	LATIN CAPITAL LETTER ENG
0133	ij	LATIN SMALL LETTER I J = ISO LATIN ... LIGATURE IJ <i>Dutch</i>	014B	ɲ	LATIN SMALL LETTER ENG <i>Lappish, IPA, ...</i>
0134	Ĵ	LATIN CAPITAL LETTER J CIRCUMFLEX	014C	Ō	LATIN CAPITAL LETTER O MACRON
0135	ĵ	LATIN SMALL LETTER J CIRCUMFLEX <i>Esperanto</i>	014D	ō	LATIN SMALL LETTER O MACRON <i>Latvian, ...</i>
0136	Ķ	LATIN CAPITAL LETTER K CEDILLA	014E	Ȫ	LATIN CAPITAL LETTER O BREVE
0137	ķ	LATIN SMALL LETTER K CEDILLA <i>Latvian, ...</i>	014F	ȫ	LATIN SMALL LETTER O BREVE <i>Latin</i>
0138	ƛ	LATIN SMALL LETTER KRA <i>old Greenlandic</i>	0150	Ŏ	LATIN CAPITAL LETTER O DOUBLE ACUTE
0139	Ĺ	LATIN CAPITAL LETTER L ACUTE	0151	ő	LATIN SMALL LETTER O DOUBLE ACUTE <i>Hungarian</i>
013A	ĺ	LATIN SMALL LETTER L ACUTE <i>Slovak</i>	0152	Œ	LATIN CAPITAL LETTER O E
013B	Ļ	LATIN CAPITAL LETTER L CEDILLA	0153	œ	LATIN SMALL LETTER O E = ISO LATIN ... LIGATURE OE <i>French, IPA, ...</i> × (latin small letter a e → 00E6) × (latin letter small capital o e → 0276)
013C	ļ	LATIN SMALL LETTER L CEDILLA <i>Latvian</i>	0154	Ŕ	LATIN CAPITAL LETTER R ACUTE
013D	Ľ	LATIN CAPITAL LETTER L HACEK	0155	ŕ	LATIN SMALL LETTER R ACUTE <i>Slovak, ...</i>
013E	ĺ	LATIN SMALL LETTER L HACEK <i>Slovak</i> the form using apostrophe is preferred in typesetting	0156	Ŗ	LATIN CAPITAL LETTER R CEDILLA
013F	Ľ	LATIN CAPITAL LETTER L WITH MIDDLE DOT	0157	ŗ	LATIN SMALL LETTER R CEDILLA <i>Latvian</i>
0140	ḷ	LATIN SMALL LETTER L WITH MIDDLE DOT <i>Catalan</i>	0158	Ř	LATIN CAPITAL LETTER R HACEK
0141	Ł	LATIN CAPITAL LETTER L SLASH	0159	ř	LATIN SMALL LETTER R HACEK <i>Czech, ...</i>
0142	ł	LATIN SMALL LETTER L SLASH <i>Polish, ...</i> × (latin small letter barred l → 019A)	015A	Ś	LATIN CAPITAL LETTER S ACUTE
0143	Ń	LATIN CAPITAL LETTER N ACUTE	015B	ś	LATIN SMALL LETTER S ACUTE <i>Polish, ...</i>
0144	ń	LATIN SMALL LETTER N ACUTE <i>Polish, ...</i>	015C	Ŝ	LATIN CAPITAL LETTER S CIRCUMFLEX
0145	Ň	LATIN CAPITAL LETTER N CEDILLA	015D	ŝ	LATIN SMALL LETTER S CIRCUMFLEX <i>Esperanto</i>
0146	ņ	LATIN SMALL LETTER N CEDILLA <i>Latvian</i>	015E	Ș	LATIN CAPITAL LETTER S CEDILLA
0147	Ñ	LATIN CAPITAL LETTER N HACEK	015F	ș	LATIN SMALL LETTER S CEDILLA <i>Turkish, Romanian, ...</i> the form using under-comma is taken to be a glyph variant
0148	ň	LATIN SMALL LETTER N HACEK <i>Czech, Slovak</i>	0160	Š	LATIN CAPITAL LETTER S HACEK
			0161	š	LATIN SMALL LETTER S HACEK (many)
			0162	Ț	LATIN CAPITAL LETTER T CEDILLA
			0163	ț	LATIN SMALL LETTER T CEDILLA <i>Romanian, ...</i> the form using under-comma is taken to be a glyph variant

0164	Ť	LATIN CAPITAL LETTER T HACEK <i>the form using hacek is preferred in all contexts</i>
0165	ť	LATIN SMALL LETTER T HACEK <i>Czech, Slovak the form using apostrophe is preferred in typesetting</i>
0166	Ƨ	LATIN CAPITAL LETTER T BAR
0167	Ƨ	LATIN SMALL LETTER T BAR <i>Lappish</i>
0168	Ũ	LATIN CAPITAL LETTER U TILDE
0169	ũ	LATIN SMALL LETTER U TILDE <i>Greenlandic</i>
016A	Ū	LATIN CAPITAL LETTER U MACRON
016B	ū	LATIN SMALL LETTER U MACRON <i>Latvian, Lithuanian, ...</i>
016C	Ů	LATIN CAPITAL LETTER U BREVE
016D	ů	LATIN SMALL LETTER U BREVE <i>Latin, Esperanto, ...</i>
016E	Ů̇	LATIN CAPITAL LETTER U RING
016F	ů̇	LATIN SMALL LETTER U RING <i>Czech, ...</i>
0170	Ű	LATIN CAPITAL LETTER U DOUBLE ACUTE
0171	ű	LATIN SMALL LETTER U DOUBLE ACUTE <i>Hungarian</i>
0172	Ū̇	LATIN CAPITAL LETTER U OGONEK
0173	ū̇	LATIN SMALL LETTER U OGONEK <i>Lithuanian</i>
0174	Ŵ	LATIN CAPITAL LETTER W CIRCUMFLEX
0175	ŵ	LATIN SMALL LETTER W CIRCUMFLEX <i>Welsh</i>
0176	Ŷ	LATIN CAPITAL LETTER Y CIRCUMFLEX
0177	ŷ	LATIN SMALL LETTER Y CIRCUMFLEX <i>Welsh</i>
0178	ÿ	LATIN CAPITAL LETTER Y DIAERESIS <i>French</i> × ( <i>latin small letter y diaeresis</i> → 00FF)
0179	Ź	LATIN CAPITAL LETTER Z ACUTE
017A	ź	LATIN SMALL LETTER Z ACUTE <i>Polish, ...</i>
017B	Ż	LATIN CAPITAL LETTER Z DOT
017C	ż	LATIN SMALL LETTER Z DOT <i>Polish, ...</i>
017D	Ž	LATIN CAPITAL LETTER Z HACEK
017E	ž	LATIN SMALL LETTER Z HACEK <i>(many)</i>

	018	019	01A	01B	01C	01D	01E	01F
0	ḃ	ε	Ɔ	Ư		ǐ	Ā	ǰ
1	Ḃ	Ɔ	σ	Ʈ	//	Ǒ	ā	
2	Ḅ	ƒ	Ɔ	Ʈ	≠ ≠	ǒ	ĀĒ	
3	ḅ	Ɔ	Ɔ	Ʈ	!	Ǔ	āē	
4	Ḇ	Ƴ	Ɔ	Ʈ	DŽ	ǔ	Ɔ	
5	ḇ	ḥ	Ɔ β	Ʈ	Dž	Ǖ	Ɔ	
6	Ḉ	l	Ɔ	Ʈ	dž	ǖ	Ǧ	
7	Ɔ	Ɔ	Ɔ	Ʈ Ʈ	LJ	Ǘ	ǧ	
8	Ɔ	K	Ɔ	Ʈ	Lj	Ǚ	Ǩ	
9	Ḋ	Ɔ	Ɔ	Ʈ	lj	ǚ	ǩ	
A	Ḍ	Ɔ	Ɔ	Ʈ	NJ	Ǜ	Ǫ	
B	Ḑ	λ	Ɔ	Ʈ	Nj	ǜ	ǫ	
C	Ḓ	ω	Ɔ	Ʈ	nj	ǝ	Ǭ	
D	Ḕ	Ɔ	Ɔ	Ʈ	Ǻ	ǟ	Ǭ	
E	Ḕ	η	Ɔ	Ʈ	ǻ	Ā	ǻ	
F	Ḕ	θ θ	Ɔ	Ʈ	Ǽ	ā	ǻ	



Extended Latin					
0180	ḃ	LATIN SMALL LETTER B BAR <i>Americanist usage for phonetic beta</i> × ( <i>greek small letter beta</i> → 03B2) × ( <i>blank</i> → 2422)	0191	ƒ	LATIN CAPITAL LETTER F HOOK <i>African</i> × ( <i>latin small letter script f</i> → 0192)
0181	Ɔ	LATIN CAPITAL LETTER B HOOK × ( <i>latin small letter b hook</i> → 0253)	0192	f	LATIN SMALL LETTER SCRIPT F = <i>ISO SMALL LETTER F WITH HOOK</i> = <i>Florin currency symbol (Dutch)</i> = <i>function symbol</i> × ( <i>latin capital letter f hook</i> → 0191)
0182	Ḃ	LATIN CAPITAL LETTER B TOPBAR	0193	Ɠ	LATIN CAPITAL LETTER G HOOK <i>African</i> × ( <i>latin small letter g hook</i> → 0260)
0183	Ḅ	LATIN SMALL LETTER B TOPBAR <i>Soviet minority language scripts</i> × ( <i>cyrillic capital letter be</i> → 0411)	0194	Ƴ	LATIN CAPITAL LETTER GAMMA <i>African</i> × ( <i>latin small letter gamma</i> → 0263)
0184	ḅ	LATIN CAPITAL LETTER TONE SIX	0195	ḥ	LATIN SMALL LETTER H V <i>Gothic</i>
0185	b	LATIN SMALL LETTER TONE SIX <i>Zhuang</i> <i>Zhuang tone three is Cyrillic ze</i> <i>Zhuang tone four is Cyrillic che</i> × ( <i>latin small letter tone two</i> → 01A8) × ( <i>latin small letter tone five</i> → 01BD) × ( <i>cyrillic small letter ze</i> → 0437) × ( <i>cyrillic small letter che</i> → 0447) × ( <i>cyrillic small letter soft sign</i> → 044C)	0196	ɪ	LATIN CAPITAL LETTER IOTA <i>African</i> × ( <i>latin small letter iota</i> → 0269)
0186	Ɔ	LATIN CAPITAL LETTER OPEN O <i>typographically a turned C</i> × ( <i>latin small letter open o</i> → 0254)	0197	İ	LATIN CAPITAL LETTER BARRED I = <i>i bar</i> <i>African</i> <i>ISO 6438 gives lowercase as 026A, not 0268</i> × ( <i>latin letter small capital i</i> → 026A)
0187	Ɔ	LATIN CAPITAL LETTER C HOOK	0198	Ƒ	LATIN CAPITAL LETTER K HOOK
0188	Ɔ	LATIN SMALL LETTER C HOOK <i>African</i>	0199	Ƒ	LATIN SMALL LETTER K HOOK <i>African</i>
0189	Ɖ	LATIN CAPITAL LETTER AFRICAN D × ( <i>latin capital letter eth</i> → 00D0) × ( <i>latin capital letter d bar</i> → 0110) × ( <i>latin small letter d retroflex hook</i> → 0256)	019A	ł	LATIN SMALL LETTER BARRED L = <i>l bar</i> <i>Americanist phonetic usage</i> × ( <i>latin small letter l slash</i> → 0142)
018A	Ɖ	LATIN CAPITAL LETTER D HOOK <i>African</i> × ( <i>latin small letter d hook</i> → 0257)	019B	λ	LATIN SMALL LETTER BARRED LAMBDA = <i>lambda bar</i> <i>Americanist phonetic usage</i>
018B	Ɗ	LATIN CAPITAL LETTER D TOPBAR	019C	Ʊ	LATIN CAPITAL LETTER TURNED M <i>Zhuang</i> × ( <i>latin small letter turned m</i> → 026F)
018C	ḁ	LATIN SMALL LETTER D TOPBAR <i>Soviet minority language scripts</i>	019D	Ɲ	LATIN CAPITAL LETTER N HOOK <i>African</i> × ( <i>latin small letter n hook</i> → 0272)
018D	Ɔ	LATIN SMALL LETTER TURNED DELTA <i>archaic phonetic for labialized dental fricative</i> <i>recommended spellings 007A 02B7 or 007A 032B</i>	019E	ɳ	LATIN SMALL LETTER N WITH LONG RIGHT LEG <i>archaic phonetic for Japanese syllabic "n"</i> <i>recommended spelling 006E 0329</i>
018E	Ɛ	LATIN CAPITAL LETTER TURNED E <i>Nigerian</i> <i>alternate uppercase usage to the following</i> × ( <i>latin small letter turned e</i> → 01DD)	019F	Ɔ	LATIN CAPITAL LETTER BARRED O = <i>o bar</i> <i>African, Soviet minority language scripts</i> × ( <i>latin small letter barred o</i> → 0275)
018F	Ɔ	LATIN CAPITAL LETTER SCHWA <i>Azerbaijani, ...</i> × ( <i>latin small letter schwa</i> → 0259)	01A0	Ɔ	LATIN CAPITAL LETTER O HORN
0190	Ɔ	LATIN CAPITAL LETTER EPSILON <i>African</i> × ( <i>latin small letter epsilon</i> → 025B) × ( <i>eulers</i> → 2107)	01A1	Ɔ	LATIN SMALL LETTER O HORN <i>Vietnamese</i>
			01A2	Ɔ	LATIN CAPITAL LETTER O I
			01A3	Ɔ	LATIN SMALL LETTER O I <i>old Azerbaijani</i>

01A4	Ɔ	LATIN CAPITAL LETTER P HOOK	01B7	Ʒ	LATIN CAPITAL LETTER YOGH <i>African</i> × ( <i>latin small letter yogh</i> → 0292)
01A5	Ɔ̣	LATIN SMALL LETTER P HOOK <i>African</i>	01B8	Ʒ̅	LATIN CAPITAL LETTER REVERSED YOGH
01A6	ᚱ	LATIN LETTER Y R <i>old Norse</i> <i>from German Standard DIN 31624</i>	01B9	Ʒ̆	LATIN SMALL LETTER REVERSED YOGH <i>archaic phonetic for voiced pharyngeal fricative</i> <i>sometimes typographically rendered with a turned digit 3</i> <i>recommended spelling 0295</i> × ( <i>latin letter reversed glottal stop</i> → 0295) × ( <i>arabic letter ain</i> → 0639)
01A7	ᚲ	LATIN CAPITAL LETTER TONE TWO	01BA	Ʒ̇	LATIN SMALL LETTER YOGH WITH TAIL <i>archaic phonetic for labialized voiced palato-alveolar or palatal fricative</i> <i>Twi</i> <i>recommended spellings 0292 02B7 or 006A 02B7</i>
01A8	ᚳ	LATIN SMALL LETTER TONE TWO <i>Zhuang</i> <i>typographically a reversed S</i> × ( <i>latin small letter tone six</i> → 0185)	01BB	ᚴ	LATIN LETTER TWO BAR <i>archaic phonetic for [dz] affricate</i> <i>recommended spellings 0292 or 0064 007A</i>
01A9	Σ	LATIN CAPITAL LETTER ESH <i>African</i> × ( <i>latin small letter esh</i> → 0283) × ( <i>greek capital letter sigma</i> → 03A3)	01BC	ᚵ	LATIN CAPITAL LETTER TONE FIVE
01AA	ʃ̥	LATIN LETTER REVERSED ESH LOOP <i>archaic phonetic for labialized palato-alveolar or palatal fricative</i> <i>Twi</i> <i>recommended spellings 0283 02B7, 00E7 02B7, 0068 0265, etc.</i>	01BD	ᚶ	LATIN SMALL LETTER TONE FIVE <i>Zhuang</i> × ( <i>latin small letter tone six</i> → 0185)
01AB	ᚷ	LATIN SMALL LETTER T PALATAL HOOK <i>archaic phonetic for palatalized alveolar or dental stop</i> <i>recommended spelling 0074 02B2</i>	01BE	ᚷ̅	LATIN LETTER INVERTED GLOTTAL STOP BAR <i>archaic phonetic for [ts] affricate</i> <i>recommended spelling 0074 0073</i>
01AC	Ƨ	LATIN CAPITAL LETTER T HOOK	01BF	ƿ	LATIN LETTER WYNN <i>Runic letter borrowed into Latin script replaced by "w" in modern transcriptions of Old English</i>
01AD	Ƨ̣	LATIN SMALL LETTER T HOOK <i>African</i>	01C0	ǀ	LATIN LETTER PIPE = <i>dental click</i> <i>Khoisan tradition</i> <i>"c" in Zulu orthography</i> × ( <i>slash</i> → 002F) × ( <i>vertical bar</i> → 007C) × ( <i>latin small letter turned t</i> → 0287) × ( <i>divides</i> → 2223)
01AE	Ƨ̣̅	LATIN CAPITAL LETTER T RETROFLEX HOOK <i>African</i> × ( <i>latin small letter t retroflex hook</i> → 0288)	01C1	ǁ	LATIN LETTER DOUBLE PIPE = <i>lateral click</i> <i>Khoisan tradition</i> <i>"x" in Zulu orthography</i> × ( <i>latin letter inverted glottal stop</i> → 0296) × ( <i>parallel to</i> → 2225)
01AF	Ƨ̣̆	LATIN CAPITAL LETTER U HORN	01C2	ǂ	LATIN LETTER PIPE DOUBLE BAR = <i>alveolar (or palatal) click</i> <i>Khoisan tradition</i> <i>no IPA equivalent</i> × ( <i>not equal to</i> → 2260)
01B0	Ƨ̣̆̅	LATIN SMALL LETTER U HORN <i>Vietnamese</i>			
01B1	Ƨ̣̆̆	LATIN CAPITAL LETTER UPSILON <i>African</i> <i>typographically based on turned capital Greek omega</i> × ( <i>latin small letter upsilon</i> → 028A) × ( <i>mho</i> → 2127)			
01B2	Ƨ̣̆̆̅	LATIN CAPITAL LETTER SCRIPT V = ISO LATIN CAPITAL LETTER V WITH HOOK <i>African</i> × ( <i>latin small letter script v</i> → 028B)			
01B3	Ƨ̣̆̆̆	LATIN CAPITAL LETTER Y HOOK			
01B4	Ƨ̣̆̆̆̅	LATIN SMALL LETTER Y HOOK <i>African</i>			
01B5	Ƨ̣̆̆̆̆	LATIN CAPITAL LETTER Z BAR			
01B6	Ƨ̣̆̆̆̆̅	LATIN SMALL LETTER Z BAR <i>variant of Latin "z"</i> × ( <i>latin small letter z</i> → 007A)			

01C3	!	LATIN LETTER EXCLAMATION MARK = palatal (or alveolar) click Khoisan tradition "q" in Zulu orthography × (exclamation mark → 0021) × (latin letter stretched c → 0297)			
		<b>Croatian digraphs matching Serbian Cyrillic letters</b>			
01C4	DŽ	LATIN CAPITAL LETTER D Z HACEK			
01C5	Dž	LATIN LETTER CAPITAL D SMALL Z HACEK			
01C6	dž	LATIN SMALL LETTER D Z HACEK × (cyrillic small letter dzhe → 045F)			
01C7	LJ	LATIN CAPITAL LETTER L J			
01C8	Lj	LATIN LETTER CAPITAL L SMALL J			
01C9	lj	LATIN SMALL LETTER L J × (cyrillic small letter lje → 0459)			
01CA	NJ	LATIN CAPITAL LETTER N J			
01CB	Nj	LATIN LETTER CAPITAL N SMALL J			
01CC	nj	LATIN SMALL LETTER N J × (cyrillic small letter nje → 045A)			
		<b>Pinyin diacritic-vowel combinations</b>			
01CD	Ǻ	LATIN CAPITAL LETTER A HACEK			
01CE	ǻ	LATIN SMALL LETTER A HACEK Pinyin third tone			
01CF	Ǽ	LATIN CAPITAL LETTER I HACEK			
01D0	ǽ	LATIN SMALL LETTER I HACEK Pinyin third tone			
01D1	Ǿ	LATIN CAPITAL LETTER O HACEK			
01D2	ǿ	LATIN SMALL LETTER O HACEK Pinyin third tone			
01D3	Ǻ	LATIN CAPITAL LETTER U HACEK			
01D4	ǻ	LATIN SMALL LETTER U HACEK Pinyin third tone			
01D5	Ǽ	LATIN CAPITAL LETTER U DIAERESIS MACRON			
01D6	ǽ	LATIN SMALL LETTER U DIAERESIS MACRON Pinyin first tone			
01D7	Ǻ	LATIN CAPITAL LETTER U DIAERESIS ACUTE			
01D8	ǻ	LATIN SMALL LETTER U DIAERESIS ACUTE Pinyin second tone			
01D9	Ǽ	LATIN CAPITAL LETTER U DIAERESIS HACEK			
01DA	ǽ	LATIN SMALL LETTER U DIAERESIS HACEK Pinyin third tone			
01DB	Ǻ	LATIN CAPITAL LETTER U DIAERESIS GRAVE			
01DC	ǻ	LATIN SMALL LETTER U DIAERESIS GRAVE Pinyin fourth tone			
		<b>Additions</b>			
01DD	ə	LATIN SMALL LETTER TURNED E Nigerian all other usages of schwa are 0259 × (latin capital letter turned e → 018E) × (latin small letter schwa → 0259)			
01DE	Ǻ	LATIN CAPITAL LETTER A DIAERESIS MACRON			
01DF	ǻ	LATIN SMALL LETTER A DIAERESIS MACRON Lappish			
01E0	Ǻ	LATIN CAPITAL LETTER A DOT MACRON			
01E1	ǻ	LATIN SMALL LETTER A DOT MACRON Lappish			
01E2	Ǻ	LATIN CAPITAL LETTER A E MACRON			
01E3	ǻ	LATIN SMALL LETTER A E MACRON Lappish, Old English			
01E4	Ǻ	LATIN CAPITAL LETTER G BAR			
01E5	ǻ	LATIN SMALL LETTER G BAR Lappish			
01E6	Ǻ	LATIN CAPITAL LETTER G HACEK			
01E7	ǻ	LATIN SMALL LETTER G HACEK Lappish; sometimes used in writing Turkish × (latin small letter g breve → 011F)			
01E8	Ǻ	LATIN CAPITAL LETTER K HACEK			
01E9	ǻ	LATIN SMALL LETTER K HACEK Lappish			
01EA	Ǻ	LATIN CAPITAL LETTER O OGONEK			
01EB	ǻ	LATIN SMALL LETTER O OGONEK Lappish, Iroquoian			
01EC	Ǻ	LATIN CAPITAL LETTER O OGONEK MACRON			
01ED	ǻ	LATIN SMALL LETTER O OGONEK MACRON Lappish			
01EE	Ǻ	LATIN CAPITAL LETTER YOGH HACEK			
01EF	ǻ	LATIN SMALL LETTER YOGH HACEK Lappish			
01F0	Ǻ	LATIN SMALL LETTER J HACEK IPA			

	025	026	027	028	029	02A
0	Ƶ	ƶ	Ʒ	Ƹ	ƹ	ƺ
1	ƻ	Ƽ	ƽ	ƿ	ƾ	ƿ̄
2	ƿ	ƾ	ƿ̄	ƿ̇	ƿ̈	ƿ̉
3	ƿ̊	ƿ̋	ƿ̌	ƿ̍	ƿ̎	ƿ̏
4	ƿ̐	ƿ̑	ƿ̒	ƿ̓	ƿ̔	ƿ̕
5	ƿ̖	ƿ̗	ƿ̘	ƿ̙	ƿ̚	ƿ̛
6	ƿ̜	ƿ̝	ƿ̞	ƿ̟	ƿ̠	ƿ̡
7	ƿ̢	ƿ̣	ƿ̤	ƿ̥	ƿ̦	ƿ̧
8	ƿ̨	ƿ̩	ƿ̪	ƿ̫	ƿ̬	ƿ̭
9	ƿ̮	ƿ̯	ƿ̰	ƿ̱	ƿ̲	
A	ƿ̳	ƿ̴	ƿ̵	ƿ̶	ƿ̷	
B	ƿ̸	ƿ̹	ƿ̺	ƿ̻	ƿ̼	
C	ƿ̽	ƿ̾	ƿ̿	ƿ̺	ƿ̻	
D	ƿ̼	ƿ̽	ƿ̾	ƿ̿	ƿ̺	
E	ƿ̺	ƿ̻	ƿ̼	ƿ̽	ƿ̾	
F	ƿ̿	ƿ̺	ƿ̻	ƿ̼	ƿ̽	



		<b>Standard phonetic</b>			
		× ( <i>latin small letter a e</i> → 00E6)		025E	Ɂ LATIN SMALL LETTER CLOSED REVERSED EPSILON <i>lower-mid central rounded vowel</i>
		× ( <i>latin small letter c cedilla</i> → 00E7)		025F	ɂ LATIN SMALL LETTER DOTLESS J BAR <i>voiced palatal stop</i> <i>typographically a turned f</i> <i>"gy" in Hungarian orthography</i>
		× ( <i>latin small letter eth</i> → 00F0)		0260	Ƀ LATIN SMALL LETTER G HOOK <i>implosive velar stop</i> × ( <i>latin capital letter g hook</i> → 0193)
		× ( <i>latin small letter o slash</i> → 00F8)		0261	Ʉ LATIN SMALL LETTER SCRIPT G <i>voiced velar stop</i> × ( <i>latin small letter g</i> → 0067)
		× ( <i>latin small letter h bar</i> → 0127)		0262	Ʌ LATIN LETTER SMALL CAPITAL G <i>voiced uvular stop</i>
		× ( <i>latin small letter eng</i> → 014B)		0263	Ɇ LATIN SMALL LETTER GAMMA <i>voiced velar fricative</i> × ( <i>latin capital letter gamma</i> → 0194) × ( <i>greek small letter gamma</i> → 03B3)
		× ( <i>latin small letter o e</i> → 0153)		0264	ɇ LATIN SMALL LETTER BABY GAMMA <i>upper-mid back unrounded vowel</i>
		× ( <i>greek small letter beta</i> → 03B2)		0265	Ɉ LATIN SMALL LETTER TURNED H <i>voiced rounded palatal approximant</i>
		× ( <i>greek small letter theta</i> → 03B8)		0266	ɦ LATIN SMALL LETTER H HOOK <i>breathy-voiced glottal fricative</i> × ( <i>modifier letter small h hook</i> → 02B1)
		× ( <i>greek small letter lambda</i> → 03BB)		0267	ɉ LATIN SMALL LETTER HENG HOOK <i>voiceless coarticulated velar and palato-alveolar fricative</i> <i>"tj" or "kj" in some Swedish dialects</i>
		× ( <i>greek small letter chi</i> → 03C7)		0268	ı̇ LATIN SMALL LETTER BARRED I = <i>i bar</i> <i>high central unrounded vowel</i> ISO 6438 gives lowercase of 0197 as 026A, not 0268
0250	ɐ	LATIN SMALL LETTER TURNED A <i>low central unrounded vowel</i>		0269	Ɋ LATIN SMALL LETTER IOTA <i>semi-high front unrounded vowel</i> <i>obsoleted by IPA in 1989</i> <i>preferred use is 026A LATIN LETTER SMALL CAPITAL I</i> × ( <i>latin capital letter iota</i> → 0196) × ( <i>greek small letter iota</i> → 03B9)
0251	ɑ̣	LATIN SMALL LETTER SCRIPT A <i>low back unrounded vowel</i> × ( <i>greek small letter alpha</i> → 03B1)		026A	ɋ LATIN LETTER SMALL CAPITAL I <i>semi-high front unrounded vowel</i> <i>preferred IPA alternate</i> × ( <i>latin capital letter barred i</i> → 0197)
0252	ɔ̣	LATIN SMALL LETTER TURNED SCRIPT A <i>low back rounded vowel</i>		026B	Ɍ LATIN SMALL LETTER L WITH MIDDLE TILDE <i>velarized voiced alveolar lateral approximant</i>
0253	ɸ	LATIN SMALL LETTER B HOOK <i>implosive bilabial stop</i> × ( <i>latin capital letter b hook</i> → 0181)		026C	ɍ LATIN SMALL LETTER L BELT <i>voiceless alveolar lateral fricative</i>
0254	ɔ̥	LATIN SMALL LETTER OPEN O <i>typographically a turned c</i> <i>lower-mid back rounded vowel</i> × ( <i>latin capital letter open o</i> → 0186)		026D	Ɏ LATIN SMALL LETTER L RETROFLEX HOOK <i>voiced retroflex lateral</i>
0255	ç	LATIN SMALL LETTER C CURL <i>voiceless alveolo-palatal laminal fricative</i> <i>used in transcription of Mandarin Chinese</i> <i>sound spelled with 015B in Polish</i>		026E	ɏ LATIN SMALL LETTER L YOGH <i>voiced lateral fricative</i> <i>"dhl" in Zulu orthography</i>
0256	ɖ	LATIN SMALL LETTER D RETROFLEX HOOK <i>voiced retroflex stop</i> × ( <i>latin capital letter african d</i> → 0189)			
0257	ɗ	LATIN SMALL LETTER D HOOK <i>implosive dental or alveolar stop</i> × ( <i>latin capital letter d hook</i> → 018A)			
0258	ɘ	LATIN SMALL LETTER REVERSED E <i>upper-mid central unrounded vowel</i>			
0259	ə̣	LATIN SMALL LETTER SCHWA <i>mid-central unrounded vowel</i> <i>variant uppercase form 018E is associated with clone 01DD</i> × ( <i>latin capital letter schwa</i> → 018F) × ( <i>latin small letter turned e</i> → 01DD)			
025A	ɘ̣	LATIN SMALL LETTER SCHWA HOOK <i>rhotacized schwa</i>			
025B	ɛ̣	LATIN SMALL LETTER EPSILON <i>lower-mid front unrounded vowel</i> × ( <i>latin capital letter epsilon</i> → 0190) × ( <i>greek small letter epsilon</i> → 03B5)			
025C	ɛ̥	LATIN SMALL LETTER REVERSED EPSILON <i>lower-mid central unrounded vowel</i>			
025D	ɛ̣̥	LATIN SMALL LETTER REVERSED EPSILON HOOK <i>rhotacized lower-mid central vowel</i>			



026F	Ƶ	LATIN SMALL LETTER TURNED M <i>high back unrounded vowel</i> × ( <i>latin capital letter turned m</i> → 019C)	0280	R	LATIN LETTER SMALL CAPITAL R <i>voiced uvular trill</i>
0270	ƶ	LATIN SMALL LETTER TURNED M WITH LONG LEG <i>voiced velar approximant</i>	0281	ʀ	LATIN LETTER SMALL CAPITAL INVERTED R <i>voiced uvular fricative or approximant</i> × ( <i>modifier letter small capital inverted r</i> → 02B6)
0271	Ʒ	LATIN SMALL LETTER M HOOK <i>voiced labiodental nasal</i>	0282	ʂ	LATIN SMALL LETTER S HOOK <i>voiceless retroflex fricative</i>
0272	Ƹ	LATIN SMALL LETTER N HOOK <i>voiced palatal nasal</i> × ( <i>latin capital letter n hook</i> → 019D)	0283	ʃ	LATIN SMALL LETTER ESH <i>voiceless postalveolar fricative</i> × ( <i>latin capital letter esh</i> → 01A9) × ( <i>integral</i> → 222B)
0273	ƹ	LATIN SMALL LETTER N RETROFLEX HOOK <i>voiced retroflex nasal</i>	0284	ʄ	LATIN SMALL LETTER DOTLESS J BAR HOOK <i>implosive palatal stop</i> <i>typographically based on 025F, not on 0283</i>
0274	ƺ	LATIN LETTER SMALL CAPITAL N <i>voiced uvular nasal</i>	0285	ʅ	LATIN SMALL LETTER SQUAT REVERSED ESH <i>apical retroflex vowel</i> <i>used in Sinological tradition</i> <i>IPA spelling</i> → 0290 0329
0275	ɵ	LATIN SMALL LETTER BARRED O = <i>o bar</i> <i>rounded mid-central vowel, i.e. rounded schwa</i> × ( <i>latin capital letter barred o</i> → 019F) × ( <i>greek small letter theta</i> → 03B8) × ( <i>cyrillic small letter fita</i> → 0473)	0286	ʆ	LATIN SMALL LETTER ESH CURL <i>palatalized voiceless postalveolar fricative</i> <i>suggested spelling</i> → 0283 02B2
0276	œ	LATIN LETTER SMALL CAPITAL O E <i>low front rounded vowel</i> × ( <i>latin small letter o e</i> → 0153)	0287	ʇ	LATIN SMALL LETTER TURNED T <i>dental click (sound of "tsk tsk")</i> × ( <i>latin letter pipe</i> → 01C0)
0277	ω	LATIN SMALL LETTER CLOSED OMEGA <i>semi-high back rounded vowel</i> <i>obsoleted by IPA in 1989</i> <i>preferred use is 028A LATIN LETTER SMALL UPSILON</i>	0288	ʈ	LATIN SMALL LETTER T RETROFLEX HOOK <i>voiceless retroflex stop</i> × ( <i>latin capital letter t retroflex hook</i> → 01AE)
0278	φ	LATIN SMALL LETTER PHI <i>voiceless bilabial fricative</i> × ( <i>greek small letter phi</i> → 03C6)	0289	ʉ	LATIN SMALL LETTER U BAR <i>high central rounded vowel</i>
0279	ɹ	LATIN SMALL LETTER TURNED R <i>voiced alveolar approximant</i> × ( <i>modifier letter small turned r</i> → 02B4)	028A	υ	LATIN SMALL LETTER UPSILON <i>semi-high back rounded vowel</i> <i>preferred IPA alternate</i> × ( <i>latin capital letter upsilon</i> → 01B1) × ( <i>greek small letter upsilon</i> → 03C5)
027A	ɺ	LATIN SMALL LETTER TURNED R WITH LONG LEG <i>voiced lateral flap</i>	028B	ʋ	LATIN SMALL LETTER SCRIPT V <i>voiced labiodental approximant</i> × ( <i>latin capital letter script v</i> → 01B2) × ( <i>greek small letter upsilon</i> → 03C5)
027B	ɻ	LATIN SMALL LETTER TURNED R HOOK <i>voiced retroflex approximant</i> × ( <i>modifier letter small turned r hook</i> → 02B5)	028C	∧	LATIN SMALL LETTER TURNED V = <i>caret</i> = <i>wedge</i> <i>lower-mid back unrounded vowel</i>
027C	ɽ	LATIN SMALL LETTER R WITH LONG LEG <i>voiced strident apico-alveolar trill</i> <i>sound spelled with 0159 in Czech</i>	028D	ʷ	LATIN SMALL LETTER TURNED W <i>voiceless rounded labiovelar approximant</i>
027D	ɿ	LATIN SMALL LETTER R HOOK <i>voiced retroflex flap</i>	028E	ɸ	LATIN SMALL LETTER TURNED Y <i>voiced lateral approximant</i>
027E	ɾ	LATIN SMALL LETTER FISHHOOK R <i>voiced alveolar flap or tap</i>	028F	ʏ	LATIN LETTER SMALL CAPITAL Y <i>semi-high front rounded vowel</i>
027F	ɿ	LATIN SMALL LETTER REVERSED FISHHOOK R <i>apical dental vowel</i> <i>used in Sinological tradition</i> <i>IPA spelling</i> → 007A 0329	0290	ʒ	LATIN SMALL LETTER Z RETROFLEX HOOK <i>voiced retroflex fricative</i>



	02B	02C	02D	02E	02F
0	h	?	˘	ÿ	
1	ĥ	ʔ	˘	l	
2	j	<	˘	s	
3	r	>	˘	x	
4	ı	^	˘	ŷ	
5	ı̇	v	˘	l	
6	ß	^	+	l	
7	w	˘	˘	l	
8	y	'	˘	l	
9	'	-	˘	l	
A	”	'	˘		
B	‘	˘	˘		
C	’	˘	˘		
D	˘	-	˘		
E	˘	˘	˘		
F	˘	˘			

		Phonetic modifiers derived from Latin letters		
02B0	h	MODIFIER LETTER SMALL H <i>aspiration</i>	02BB	MODIFIER LETTER TURNED COMMA <i>typographical alternate for 02BD or 02BF</i> × (non-spacing turned comma above → 0312) × (single turned comma quotation mark → 2018)
02B1	ɦ	MODIFIER LETTER SMALL H HOOK <i>breathy voiced, murmured</i> × (latin small letter h hook → 0266) × (non-spacing double dot below → 0324)	02BC	MODIFIER LETTER APOSTROPHE = apostrophe <i>glottal stop, glottalization, ejective; elision</i> <i>spacing clone of Greek smooth breathing mark</i> <i>this is the preferred character for apostrophe</i> × (apostrophe-quote → 0027) × (non-spacing comma above → 0313) × (non-spacing comma above right → 0315) × (greek non-spacing psili pneumata → 0372) × (armenian modifier letter right half ring → 055A) × (single comma quotation mark → 2019)
02B2	j	MODIFIER LETTER SMALL J <i>palatalization</i> × (non-spacing palatalized hook below → 0321)	02BD	MODIFIER LETTER REVERSED COMMA <i>weak aspiration</i> <i>spacing clone of Greek rough breathing mark</i> × (non-spacing reversed comma above → 0314) × (greek non-spacing dasia pneumata → 0371) × (armenian modifier letter left half ring → 0559) × (single reversed comma quotation mark → 201B)
02B3	r	MODIFIER LETTER SMALL R	02BE	MODIFIER LETTER RIGHT HALF RING <i>transliteration of Arabic hamzah (glottal stop)</i> × (armenian modifier letter right half ring → 055A) × (arabic letter hamzah → 0621)
02B4	ɹ	MODIFIER LETTER SMALL TURNED R × (latin small letter turned r → 0279)	02BF	MODIFIER LETTER LEFT HALF RING <i>transliteration of Arabic ain (voiced pharyngeal fricative)</i> × (armenian modifier letter left half ring → 0559) × (arabic letter ain → 0639)
02B5	ɻ	MODIFIER LETTER SMALL TURNED R HOOK × (latin small letter turned r hook → 027B)	02C0	MODIFIER LETTER GLOTTAL STOP <i>ejective or glottalized</i> <i>typographical alternate for 02BC or 02BE</i> × (latin letter glottal stop → 0294) × (non-spacing hook above → 0309)
02B6	ɿ	MODIFIER LETTER SMALL CAPITAL INVERTED R <i>preceding four used for r-coloring or r-offglides</i> × (latin letter small capital inverted r → 0281)	02C1	MODIFIER LETTER REVERSED GLOTTAL STOP <i>typographical alternate for 02BF</i> × (latin letter reversed glottal stop → 0295)
02B7	w	MODIFIER LETTER SMALL W <i>labialization</i> × (non-spacing inverted double arch below → 032B)		
02B8	y	MODIFIER LETTER SMALL Y <i>palatalization</i> <i>common Americanist substitution for 02B2</i>		
		<b>Miscellaneous phonetic modifiers</b>		
02B9	ˊ	MODIFIER LETTER PRIME <i>primary stress, emphasis</i> <i>transliteration of mjagkij znak (Cyrillic soft sign: palatalization)</i> × (apostrophe-quote → 0027) × (spacing acute → 00B4) × (modifier letter acute → 02CA) × (non-spacing acute → 0301) × (greek upper numeral sign → 03D8) × (prime → 2032)		
02BA	ˋ	MODIFIER LETTER DOUBLE PRIME <i>exaggerated stress, contrastive stress</i> <i>transliteration of tverdyj znak (Cyrillic hard sign: no palatalization)</i> × (quotation mark → 0022) × (non-spacing double acute → 030B) × (double prime → 2033)		



02C2	<	MODIFIER LETTER LEFT ARROWHEAD <i>fronted articulation</i>	02CF	'	MODIFIER LETTER LOW ACUTE <i>low-rising tone</i> × ( <i>greek lower numeral sign</i> → 03D9)
02C3	>	MODIFIER LETTER RIGHT ARROWHEAD <i>backed articulation</i>	02D0	:	MODIFIER LETTER TRIANGULAR COLON <i>length mark</i>
02C4	^	MODIFIER LETTER UP ARROWHEAD <i>raised articulation</i> × ( <i>spacing circumflex</i> → 005E) × ( <i>up arrowhead</i> → 2303)	02D1	•	MODIFIER LETTER HALF TRIANGULAR COLON <i>half-length mark</i>
02C5	v	MODIFIER LETTER DOWN ARROWHEAD <i>lowered articulation</i>	02D2	›	MODIFIER LETTER CENTERED RIGHT HALF RING <i>more rounded articulation</i>
02C6	^	MODIFIER LETTER CIRCUMFLEX <i>rising-falling tone, falling tone, secondary stress, etc.</i> × ( <i>spacing circumflex</i> → 005E) × ( <i>non-spacing circumflex</i> → 0302)	02D3	◁	MODIFIER LETTER CENTERED LEFT HALF RING <i>less rounded articulation</i>
02C7	˘	MODIFIER LETTER HACEK <i>falling-rising tone</i> <i>Mandarin Chinese third tone</i> × ( <i>non-spacing hacek</i> → 030C)	02D4	ˆ	MODIFIER LETTER UP TACK <i>vowel raising or closing</i> × ( <i>non-spacing up tack below</i> → 031D) × ( <i>non-spacing dot below</i> → 0323)
02C8	˙	MODIFIER LETTER VERTICAL LINE <i>primary stress, downstep</i> <i>precedes letter or syllable modified</i> × ( <i>apostrophe-quote</i> → 0027) × ( <i>non-spacing vertical line above</i> → 030D)	02D5	˘	MODIFIER LETTER DOWN TACK <i>vowel lowering or opening</i> × ( <i>non-spacing left half ring below</i> → 031C) × ( <i>non-spacing down tack below</i> → 031E)
02C9	ˉ	MODIFIER LETTER MACRON <i>high level tone</i> <i>precedes or follows letter or syllable modified</i> <i>Mandarin Chinese first tone</i> × ( <i>spacing macron</i> → 00AF) × ( <i>non-spacing macron</i> → 0304)	02D6	+	MODIFIER LETTER PLUS SIGN <i>advanced or fronted articulation</i> × ( <i>non-spacing plus sign below</i> → 031F)
02CA	ˊ	MODIFIER LETTER ACUTE <i>high-rising tone (IPA), high tone, primary stress</i> <i>Mandarin Chinese second tone</i> × ( <i>spacing acute</i> → 00B4) × ( <i>modifier letter prime</i> → 02B9) × ( <i>non-spacing acute</i> → 0301) × ( <i>greek upper numeral sign</i> → 03D8) × ( <i>armenian emphasis mark</i> → 055B)	02D7	-	MODIFIER LETTER MINUS SIGN <i>retracted or backed articulation</i> <i>glyph may have small end-serifs</i> × ( <i>non-spacing minus sign below</i> → 0320)
02CB	ˋ	MODIFIER LETTER GRAVE <i>high-falling tone (IPA), low tone, secondary or tertiary stress</i> <i>Mandarin Chinese fourth tone</i> × ( <i>spacing grave</i> → 0060) × ( <i>non-spacing grave</i> → 0300) × ( <i>armenian comma</i> → 055D)	<b>Spacing clones of diacritics</b>		
02CC	˙	MODIFIER LETTER LOW VERTICAL LINE <i>secondary stress</i> <i>precedes letter or syllable modified</i> × ( <i>non-spacing vertical line below</i> → 0329)	02D8	˘	SPACING BREVE × ( <i>non-spacing breve</i> → 0306)
02CD	˘	MODIFIER LETTER LOW MACRON <i>low level tone</i> × ( <i>spacing underscore</i> → 005F) × ( <i>non-spacing macron below</i> → 0331)	02D9	˙	SPACING DOT ABOVE <i>Mandarin Chinese fifth (neutral) tone</i> × ( <i>non-spacing dot above</i> → 0307)
02CE	ˋ	MODIFIER LETTER LOW GRAVE <i>low-falling tone</i>	02DA	◊	SPACING RING ABOVE × ( <i>degree sign</i> → 00B0) × ( <i>non-spacing ring above</i> → 030A)
			02DB	◌	SPACING OGONEK × ( <i>non-spacing ogonek</i> → 0328)
			02DC	˜	SPACING TILDE × ( <i>tilde</i> → 007E) × ( <i>non-spacing tilde</i> → 0303) × ( <i>tilde operator</i> → 223C)
			02DD	˝	SPACING DOUBLE ACUTE × ( <i>non-spacing double acute</i> → 030B)
			<b>Additions based on 1989 IPA</b>		
			02DE	˥	MODIFIER LETTER RHOTIC HOOK <i>rhotacization in vowel</i> <i>often ligated: 025A = 0259 + 02DE;</i> <i>025D = 025C + 02DE</i>





	030	031	032	033	034	035	036
0							
1							
2							
3							
4							
5							
6							
7							
8							
9							
A							
B							
C							
D							
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F							

Ordinary diacritics	
0300	NON-SPACING GRAVE × (spacing grave → 0060) × (modifier letter grave → 02CB)
0301	NON-SPACING ACUTE = stress mark × (apostrophe -quote → 0027) × (spacing acute → 00B4) × (modifier letter prime → 02B9) × (modifier letter acute → 02CA)
0302	NON-SPACING CIRCUMFLEX = hat × (spacing circumflex → 005E) × (modifier letter circumflex → 02C6)
0303	NON-SPACING TILDE IPA: nasalization Vietnamese tone mark × (tilde → 007E) × (spacing tilde → 02DC)
0304	NON-SPACING MACRON = ISO HORIZONTAL INDICATOR OF NEGATION = long distinguish from the following × (spacing macron → 00AF) × (modifier letter macron → 02C9)
0305	NON-SPACING OVERSCORE = overline connects on left and right × (spacing macron → 00AF)
0306	NON-SPACING BREVE = short × (spacing breve → 02D8)
0307	NON-SPACING DOT ABOVE = derivative IPA (unofficial): palatalization × (spacing dot above → 02D9)
0308	NON-SPACING DIAERESIS = double dot above = umlaut = double derivative × (spacing diaeresis → 00A8)
0309	NON-SPACING HOOK ABOVE kerns left or right of circumflex over vowels Vietnamese tone mark × (modifier letter glottal stop → 02C0)
030A	NON-SPACING RING ABOVE × (degree sign → 00B0) × (spacing ring above → 02DA)
030B	NON-SPACING DOUBLE ACUTE Hungarian, Chuvash × (quotation mark → 0022) × (modifier letter double prime → 02BA) × (spacing double acute → 02DD)
030C	NON-SPACING HACEK = caron = V ABOVE × (modifier letter hacek → 02C7)
030D	NON-SPACING VERTICAL LINE ABOVE Marshallese × (modifier letter vertical line → 02C8) × (greek capital letter alpha tonos → 0386)
030E	NON-SPACING DOUBLE VERTICAL LINE ABOVE Marshallese × (quotation mark → 0022)
030F	NON-SPACING DOUBLE GRAVE Serbocroatian
0310	NON-SPACING CANDRABINDU × (devanagari sign candrabindu → 0901)
0311	NON-SPACING INVERTED BREVE
0312	NON-SPACING TURNED COMMA ABOVE = cedilla above Latvian × (modifier letter turned comma → 02BB)
0313	NON-SPACING COMMA ABOVE × (modifier letter apostrophe → 02BC)
0314	NON-SPACING REVERSED COMMA ABOVE × (modifier letter reversed comma → 02BD)
0315	NON-SPACING COMMA ABOVE RIGHT × (modifier letter apostrophe → 02BC)
0316	NON-SPACING GRAVE BELOW
0317	NON-SPACING ACUTE BELOW
0318	NON-SPACING LEFT TACK BELOW
0319	NON-SPACING TACK BELOW
031A	NON-SPACING LEFT ANGLE ABOVE IPA: unreleased stop
031B	NON-SPACING HORN Vietnamese
031C	NON-SPACING LEFT HALF RING BELOW IPA: open variety of vowel × (modifier letter down tack → 02D5) × (non-spacing down tack below → 031E)
031D	NON-SPACING UP TACK BELOW IPA: vowel raising or closing × (modifier letter up tack → 02D4) × (non-spacing dot below → 0323)
031E	NON-SPACING DOWN TACK BELOW IPA: vowel lowering or opening × (modifier letter down tack → 02D5) × (non-spacing left half ring below → 031C)
031F	NON-SPACING PLUS SIGN BELOW IPA: advanced or fronted articulation × (modifier letter plus sign → 02D6)

- 0320 ◌̡ NON-SPACING MINUS SIGN BELOW  
IPA: retracted or backed articulation  
glyph may have small end-serifs  
× (modifier letter minus sign → 02D7)
- 0321 ◌̢ NON-SPACING PALATALIZED HOOK BELOW  
IPA: palatalization  
× (modifier letter small j → 02B2)
- 0322 ◌̣ NON-SPACING RETROFLEX HOOK BELOW  
IPA: retroflexion  
× (non-spacing dot below → 0323)
- 0323 ◌̤ NON-SPACING DOT BELOW  
IPA: closer variety of vowel  
Americanist: retraction or retroflexion  
Semiticist: velarization or pharyngealization  
Vietnamese tone mark  
× (modifier letter up tack → 02D4)  
× (non-spacing up tack below → 031D)  
× (non-spacing retroflex hook below → 0322)  
× (non-spacing double underscore → 0333)
- 0324 ◌̥ NON-SPACING DOUBLE DOT BELOW  
IPA: breathy-voice or murmur  
× (modifier letter small h hook → 02B1)
- 0325 ◌̦ NON-SPACING RING BELOW  
IPA: voiceless  
Madurese
- 0326 ◌̧ NON-SPACING COMMA BELOW  
variant of the following
- 0327 ◌̨ NON-SPACING CEDILLA  
× (spacing cedilla → 00B8)
- 0328 ◌̩ NON-SPACING OGONEK  
Americanist: nasalization  
× (spacing ogonek → 02DB)
- 0329 ◌̪ NON-SPACING VERTICAL LINE BELOW  
IPA: syllabic  
Yoruba  
× (modifier letter low vertical line → 02CC)
- 032A ◌̫ NON-SPACING BRIDGE BELOW  
IPA: dental  
× (non-spacing circumflex below → 032D)
- 032B ◌̬ NON-SPACING INVERTED DOUBLE ARCH BELOW  
IPA: labialization  
× (modifier letter small w → 02B7)
- 032C ◌̭ NON-SPACING HACEK BELOW  
IPA: voiced  
Hittite
- 032D ◌̮ NON-SPACING CIRCUMFLEX BELOW  
Americanist: fronted articulation  
× (non-spacing bridge below → 032A)
- 032E ◌̯ NON-SPACING BREVE BELOW

- 032F ◌̰ NON-SPACING INVERTED BREVE BELOW  
Americanist: fronted articulation  
(variant of 032D)  
Indo-European: semivowel
- 0330 ◌̱ NON-SPACING TILDE BELOW  
IPA: creaky voice
- 0331 ◌̲ NON-SPACING MACRON BELOW  
× (spacing underscore → 005F)  
× (modifier letter low macron → 02CD)
- 0332 ◌̳ NON-SPACING UNDERSCORE  
= underline  
connects on left and right  
× (spacing underscore → 005F)
- 0333 ◌̴ NON-SPACING DOUBLE UNDERSCORE  
= double underline  
connects on left and right  
× (non-spacing dot below → 0323)  
× (spacing double underscore → 2017)

**Overstruck diacritics**

- 0334 ◌̵ NON-SPACING TILDE OVERLAY  
IPA: velarization or pharyngealization
- 0335 ◌̶ NON-SPACING SHORT BAR OVERLAY
- 0336 ◌̷ NON-SPACING LONG BAR OVERLAY
- 0337 ◌̸ NON-SPACING SHORT SLASH OVERLAY  
= short slash overlay
- 0338 ◌̹ NON-SPACING LONG SLASH OVERLAY  
= ISO OBLIQUE INDICATOR OF NEGATION  
= long slash overlay

**Additions**

- 0339 ◌̺ NON-SPACING RIGHT HALF RING BELOW
- 033A ◌̻ NON-SPACING INVERTED BRIDGE BELOW
- 033B ◌̼ NON-SPACING SQUARE BELOW
- 033C ◌̽ NON-SPACING SEAGULL BELOW
- 033D ◌̾ NON-SPACING X ABOVE
- 033E ◌̿ NON-SPACING VERTICAL TILDE  
Cyrillic palatalization  
× (cyrillic non-spacing palatalization → 0484)
- 033F ◌̀ NON-SPACING DOUBLE OVERSCORE

**Vietnamese tone marks**

- 0340 ◌̽̇ NON-SPACING GRAVE TONE MARK  
kerns left of circumflex over vowels
- 0341 ◌̽̈́ NON-SPACING ACUTE TONE MARK  
kerns right of circumflex over vowels





	037	038	039	03A	03B	03C	03D	03E	03F
0	◌̇		◌̇	Π	ϋ	π	β	ϑ	κ
1	◌̈́		Α	Ρ	α	ρ	ϑ	ϑ	ρ
2	◌̈́		Β		β	ς	Υ	Ψ	Ϸ
3			Γ	Σ	γ	σ	Υ	Ϸ	'
4	◌̈́		Δ	Τ	δ	τ	Ͽ	Ͽ	⋄
5	◌̈́		Ε	Υ	ε	υ	φ	Ͽ	ι
6	'Α	Ζ	Φ	Ζ	φ	ω	Ϸ		
7			Η	Χ	η	χ	;	Ϸ Ϸ	
8	'Ε	Θ	Ψ	Θ	ψ	'	Ϸ		
9	'Η	Ι	Ω	ι	ω	,	Ϸ		
A	'Ι	Κ	ϊ	κ	ϊ	ς	Ϸ		
B			Λ	Ͽ	λ	ϋ	ς	Ϸ	
C	'Ο	Μ	ά	μ	ό	Ϸ	Ϸ		
D			Ν	έ	ν	ύ	Ϸ		
E	'Υ	Ξ	ή	ξ	ώ	Ϸ Ϸ	Ϸ		
F	'Ω	Ο	ι	ο		Ϸ Ϸ	Ϸ		

## Based on ISO 8859-7

0370	◌̇	GREEK NON-SPACING IOTA BELOW = <i>iota subscript</i> × ( <i>greek spacing iota below</i> → 03F5)	038C	Ό	GREEK CAPITAL LETTER OMICRON TONOS
0371	◌̈́	GREEK NON-SPACING DASIA PNEUMATA = <i>rough breathing</i> × ( <i>modifier letter reversed comma</i> → 02BD) × ( <i>cyrillic non-spacing dasia pneumata</i> → 0485) × ( <i>armenian modifier letter left half ring</i> → 0559)	038D		× ( <i>fraction one half</i> → 00BD)
0372	◌̈́	GREEK NON-SPACING PSILI PNEUMATA = <i>smooth breathing</i> × ( <i>modifier letter apostrophe</i> → 02BC) × ( <i>cyrillic non-spacing psili pneumata</i> → 0486) × ( <i>armenian modifier letter right half ring</i> → 055A)	038E	Υ	GREEK CAPITAL LETTER UPSILON TONOS
0373		× ( <i>pound sign</i> → 00A3)	038F	Ω	GREEK CAPITAL LETTER OMEGA TONOS
0374			0390	ι̇	GREEK SMALL LETTER IOTA DIAERESIS TONOS
0375			0391	Α	GREEK CAPITAL LETTER ALPHA
0376		× ( <i>broken vertical bar</i> → 00A6)	0392	Β	GREEK CAPITAL LETTER BETA
0377		× ( <i>paragraph sign</i> → 00B6)	0393	Γ	GREEK CAPITAL LETTER GAMMA = <i>GAMMA FUNCTION</i>
0378		× ( <i>non-spacing diaeresis</i> → 0308)	0394	Δ	GREEK CAPITAL LETTER DELTA × ( <i>increment</i> → 2206)
0379		× ( <i>copyright sign</i> → 00A9)	0395	Ε	GREEK CAPITAL LETTER EPSILON
037A			0396	Ζ	GREEK CAPITAL LETTER ZETA
037B		× ( <i>left pointing guillemet</i> → 00AB)	0397	Η	GREEK CAPITAL LETTER ETA
037C		× ( <i>not sign</i> → 00AC)	0398	Θ	GREEK CAPITAL LETTER THETA
037D		× ( <i>soft hyphen</i> → 00AD)	0399	Ι	GREEK CAPITAL LETTER IOTA
037E			039A	Κ	GREEK CAPITAL LETTER KAPPA
037F		× ( <i>quotation dash</i> → 2015)	039B	Λ	GREEK CAPITAL LETTER LAMBDA
0380		× ( <i>degree sign</i> → 00B0)	039C	Μ	GREEK CAPITAL LETTER MU
0381		× ( <i>plus-or-minus sign</i> → 00B1)	039D	Ν	GREEK CAPITAL LETTER NU
0382		× ( <i>superscript digit two</i> → 00B2)	039E	Ξ	GREEK CAPITAL LETTER XI
0383		× ( <i>superscript digit three</i> → 00B3)	039F	Ο	GREEK CAPITAL LETTER OMICRON
0384	◌̇	GREEK NON-SPACING TONOS × ( <i>greek spacing tonos</i> → 03F3)	03A0	Π	GREEK CAPITAL LETTER PI × ( <i>n-ary product</i> → 220F)
0385	◌̇	GREEK NON-SPACING DIAERESIS TONOS = <i>ISO ACUTE ACCENT AND DIAERESIS</i> × ( <i>greek spacing diaeresis tonos</i> → 03F4)	03A1	Ρ	GREEK CAPITAL LETTER RHO
0386	Ά	GREEK CAPITAL LETTER ALPHA TONOS × ( <i>non-spacing vertical line above</i> → 030D) × ( <i>middle dot</i> → 00B7)	03A2		
0387			03A3	Σ	GREEK CAPITAL LETTER SIGMA × ( <i>latin capital letter esh</i> → 01A9) × ( <i>n-ary summation</i> → 2211)
0388	Έ	GREEK CAPITAL LETTER EPSILON TONOS	03A4	Τ	GREEK CAPITAL LETTER TAU
0389	Ή	GREEK CAPITAL LETTER ETA TONOS	03A5	Υ	GREEK CAPITAL LETTER UPSILON
038A	Ί	GREEK CAPITAL LETTER IOTA TONOS	03A6	Φ	GREEK CAPITAL LETTER PHI
038B		× ( <i>right pointing guillemet</i> → 00BB)	03A7	Χ	GREEK CAPITAL LETTER CHI
			03A8	Ψ	GREEK CAPITAL LETTER PSI
			03A9	Ω	GREEK CAPITAL LETTER OMEGA × ( <i>ohm</i> → 2126) × ( <i>mho</i> → 2127)
			03AA	ϊ̇	GREEK CAPITAL LETTER IOTA DIAERESIS
			03AB	ϋ̇	GREEK CAPITAL LETTER UPSILON DIAERESIS
			03AC	ά	GREEK SMALL LETTER ALPHA TONOS
			03AD	έ	GREEK SMALL LETTER EPSILON TONOS
			03AE	ή	GREEK SMALL LETTER ETA TONOS
			03AF	ι̇	GREEK SMALL LETTER IOTA TONOS
			03B0	ϋ̇	GREEK SMALL LETTER UPSILON DIAERESIS TONOS

03B1	α	GREEK SMALL LETTER ALPHA × (latin small letter script a → 0251) × (proportional to → 221D)
03B2	β	GREEK SMALL LETTER BETA × (latin small letter sharp s → 00DF) × (latin small letter b bar → 0180)
03B3	γ	GREEK SMALL LETTER GAMMA × (latin small letter gamma → 0263)
03B4	δ	GREEK SMALL LETTER DELTA
03B5	ε	GREEK SMALL LETTER EPSILON × (latin small letter epsilon → 025B)
03B6	ζ	GREEK SMALL LETTER ZETA
03B7	η	GREEK SMALL LETTER ETA
03B8	θ	GREEK SMALL LETTER THETA × (latin small letter barred o → 0275) × (cyrillic small letter fita → 0473)
03B9	ι	GREEK SMALL LETTER IOTA × (latin small letter iota → 0269) × (turned greek small letter iota → 2129)
03BA	κ	GREEK SMALL LETTER KAPPA
03BB	λ	GREEK SMALL LETTER LAMBDA
03BC	μ	GREEK SMALL LETTER MU × (micro sign → 00B5)
03BD	ν	GREEK SMALL LETTER NU
03BE	ξ	GREEK SMALL LETTER XI
03BF	ο	GREEK SMALL LETTER OMICRON
03C0	π	GREEK SMALL LETTER PI math constant 3.141592...
03C1	ρ	GREEK SMALL LETTER RHO
03C2	ς	GREEK SMALL LETTER FINAL SIGMA
03C3	σ	GREEK SMALL LETTER SIGMA
03C4	τ	GREEK SMALL LETTER TAU
03C5	υ	GREEK SMALL LETTER UPSILON × (latin small letter upsilon → 028A) × (latin small letter script v → 028B)
03C6	φ	GREEK SMALL LETTER PHI × (latin small letter phi → 0278)
03C7	χ	GREEK SMALL LETTER CHI
03C8	ψ	GREEK SMALL LETTER PSI
03C9	ω	GREEK SMALL LETTER OMEGA
03CA	ϊ	GREEK SMALL LETTER IOTA DIAERESIS
03CB	ϋ	GREEK SMALL LETTER UPSILON DIAERESIS
03CC	ὀ	GREEK SMALL LETTER OMICRON TONOS
03CD	ύ	GREEK SMALL LETTER UPSILON TONOS
03CE	ώ	GREEK SMALL LETTER OMEGA TONOS
03CF		

**Variant letterforms**

03D0 β GREEK SMALL LETTER CURLED BETA

03D1	ϑ	GREEK SMALL LETTER SCRIPT THETA used as technical symbol
03D2	Υ	GREEK CAPITAL LETTER UPSILON HOOK
03D3	Υ̂	GREEK CAPITAL LETTER UPSILON HOOK TONOS
03D4	ÿ̂	GREEK CAPITAL LETTER UPSILON HOOK DIAERESIS
03D5	ϕ	GREEK SMALL LETTER SCRIPT PHI used as technical symbol
03D6	ω̂	GREEK SMALL LETTER OMEGA PI used as technical symbol a variant of pi, looking like omega

**Punctuation-like characters**

03D7	;	GREEK QUESTION MARK sentence-final punctuation × (semicolon → 003B) × (question mark → 003F)
03D8	´	GREEK UPPER NUMERAL SIGN for numeric use of letters × (modifier letter prime → 02B9) × (modifier letter acute → 02CA)
03D9	ˊ	GREEK LOWER NUMERAL SIGN for numeric use of letters × (modifier letter low acute → 02CF)

**Archaic letters**

03DA	Ϛ	GREEK CAPITAL LETTER STIGMA
03DB	ϛ	GREEK SMALL LETTER STIGMA
03DC	Ϝ	GREEK CAPITAL LETTER DIGAMMA
03DD	ϝ	GREEK SMALL LETTER DIGAMMA
03DE	Ϙ	GREEK CAPITAL LETTER KOPPA
03DF	ϙ	GREEK SMALL LETTER KOPPA
03E0	Ϡ	GREEK CAPITAL LETTER SAMPI
03E1	ϡ	GREEK SMALL LETTER SAMPI

**Coptic-unique letters**

03E2	Ϩ	GREEK CAPITAL LETTER SHEI
03E3	ϩ	GREEK SMALL LETTER SHEI
03E4	Ϫ	GREEK CAPITAL LETTER FEI
03E5	ϫ	GREEK SMALL LETTER FEI
03E6	Ϭ	GREEK CAPITAL LETTER KHEI
03E7	ϭ	GREEK SMALL LETTER KHEI
03E8	Ϯ	GREEK CAPITAL LETTER HORI
03E9	ϯ	GREEK SMALL LETTER HORI
03EA	ϰ	GREEK CAPITAL LETTER GANGIA
03EB	ϱ	GREEK SMALL LETTER GANGIA
03EC	ϲ	GREEK CAPITAL LETTER SHIMA
03ED	ϳ	GREEK SMALL LETTER SHIMA
03EE	ϴ	GREEK CAPITAL LETTER DEI



	040	041	042	043	044	045	046	047
0		А	Р	а	р		Ი	Კ
1	Ё	Б	С	б	с	ё	Თ	Ლ
2	Ѣ	В	Т	в	т	ѣ	Მ	Ნ
3	Ѓ	Г	У	г	у	ѓ	Პ	Ჟ
4	Є	Д	Ф	д	ф	є	Რ	Ს
5	Ѕ	Е	Х	е	х	ѕ	Ტ	Უ
6	І	Ж	Ц	ж	ц	і	Ფ	Ქ
7	Ї	З	Ч	з	ч	ї	Ღ	Ყ
8	Ј	И	Ш	и	ш	ј	Შ	Ჩ
9	Љ	Й	Щ	й	щ	љ	Ც	Ძ
А	Њ	К	Ѣ	к	ѣ	њ	Წ	Ჭ
В	Ѥ	Л	Ы	л	ы	ѥ	Ხ	Ჯ
С	Ќ	М	Ь	м	ь	ќ	Ჰ	Ჱ
Д		Н	Э	н	э		Ჲ	Ჳ
Е	Ў	О	Ю	о	ю	ў	Ჴ	Ჵ
Ф	Ѧ	П	Я	п	я	ѧ	Ჶ	Ჷ



	048	049	04A	04B	04C	04D	04E	04F
0	Ѕ	Ґ	Ҕ	Ү	І			
1	ѕ	ґ	ҕ	ү	ӡ			
2	Ҷ	Ҫ ҫ	Ҳ	Х	Ӣ			
3	Ҷ̇	Ҫ ҫ	Ҳ	х	Ӣ			
4	Ҷ̈	Ҫ	Ҳ	Ң	Ӣ			
5	Ҷ̇̈	Ҫ	Ҳ	Ң	Ӣ̇			
6	Ҷ̈̇	Ӣ	Ң	Ң	Ӣ̈			
7		Ӣ	Ң	Ң	Ң			
8		Ӣ Ӣ	Ң	Ң	Ң			
9		Ӣ Ӣ	Ң	Ң	Ң̇			
A		Ӣ	Ң Ң	Ң	Ң̇			
B		Ӣ	Ң Ң	Ң	Ң̇			
C		Ӣ	Ң	Ң̇	Ң̇			
D		Ӣ	Ң	Ң̇				
E		Ӣ	Ң	Ң̇ Ң̇				
F		Ӣ	Ң	Ң̇ Ң̇				



0450	×	(numero → 2116)
0451	ѥ	CYRILLIC SMALL LETTER IO <i>Russian, ...</i>
0452	ђ	CYRILLIC SMALL LETTER DJE <i>Serbian</i> × ( <i>latin small letter d bar</i> → 0111)
0453	ј	CYRILLIC SMALL LETTER GJE <i>Macedonian</i>
0454	Ѣ	CYRILLIC SMALL LETTER E = <i>Old Cyrillic yest</i> <i>Ukrainian, ...</i>
0455	ѕ	CYRILLIC SMALL LETTER DZE = <i>Old Cyrillic zelo</i> <i>Macedonian</i>
0456	і	CYRILLIC SMALL LETTER I = <i>Old Cyrillic i</i> <i>Ukrainian, Byelorussian, ...</i>
0457	ї	CYRILLIC SMALL LETTER YI <i>Ukrainian</i>
0458	ј	CYRILLIC SMALL LETTER JE <i>Serbian, Azerbaijan, Altaic</i>
0459	Љ	CYRILLIC SMALL LETTER LJE <i>Serbian, Macedonian</i> × ( <i>latin small letter l j</i> → 01C9)
045A	Њ	CYRILLIC SMALL LETTER NJE <i>Serbian, Macedonian</i> × ( <i>latin small letter n j</i> → 01CC)
045B	ѣ	CYRILLIC SMALL LETTER TSHE = <i>Old Cyrillic derv</i> <i>Serbian</i> × ( <i>latin small letter c acute</i> → 0107) × ( <i>latin small letter h bar</i> → 0127) × ( <i>cyrillic capital letter tshe</i> → 040B) × ( <i>planck constant over 2 pi</i> → 210F)
045C	ќ	CYRILLIC SMALL LETTER KJE <i>Macedonian</i>
045D	×	( <i>section sign</i> → 00A7)
045E	ѣ	CYRILLIC SMALL LETTER SHORT U <i>Byelorussian, Uzbek, ...</i>
045F	ѣ	CYRILLIC SMALL LETTER DZHE <i>Serbian, Macedonian, Abkhasian</i> × ( <i>latin small letter d z hacek</i> → 01C6)

**Historic letters**

0460	Ѡ	CYRILLIC CAPITAL LETTER OMEGA
0461	ѡ	CYRILLIC SMALL LETTER OMEGA
0462	Ѣ	CYRILLIC CAPITAL LETTER YAT
0463	ѣ	CYRILLIC SMALL LETTER YAT
0464	Ѥ	CYRILLIC CAPITAL LETTER IOTIFIED E
0465	ѥ	CYRILLIC SMALL LETTER IOTIFIED E
0466	Ѧ	CYRILLIC CAPITAL LETTER LITTLE YUS
0467	ѧ	CYRILLIC SMALL LETTER LITTLE YUS

0468	Ѩ	CYRILLIC CAPITAL LETTER IOTIFIED LITTLE YUS
0469	ѩ	CYRILLIC SMALL LETTER IOTIFIED LITTLE YUS
046A	Ѫ	CYRILLIC CAPITAL LETTER BIG YUS
046B	ѫ	CYRILLIC SMALL LETTER BIG YUS
046C	Ѭ	CYRILLIC CAPITAL LETTER IOTIFIED BIG YUS
046D	ѭ	CYRILLIC SMALL LETTER IOTIFIED BIG YUS
046E	Ѯ	CYRILLIC CAPITAL LETTER KSI
046F	ѯ	CYRILLIC SMALL LETTER KSI
0470	Ѱ	CYRILLIC CAPITAL LETTER PSI
0471	ѱ	CYRILLIC SMALL LETTER PSI
0472	Ѳ	CYRILLIC CAPITAL LETTER FITA
0473	ѳ	CYRILLIC SMALL LETTER FITA × ( <i>latin small letter barred o</i> → 0275) × ( <i>greek small letter theta</i> → 03B8)
0474	Ѵ	CYRILLIC CAPITAL LETTER IZHITSA
0475	ѵ	CYRILLIC SMALL LETTER IZHITSA
0476	Ѷ	CYRILLIC CAPITAL LETTER IZHITSA DOUBLE GRAVE
0477	ѷ	CYRILLIC SMALL LETTER IZHITSA DOUBLE GRAVE
0478	Ѹ	CYRILLIC CAPITAL LETTER UK DIGRAPH <i>basic Old Cyrillic uk is unified with</i> <b>CYRILLIC LETTER U</b> × ( <i>cyrillic capital letter u</i> → 0423)
0479	ѹ	CYRILLIC SMALL LETTER UK DIGRAPH
047A	Ѻ	CYRILLIC CAPITAL LETTER ROUND OMEGA
047B	ѻ	CYRILLIC SMALL LETTER ROUND OMEGA
047C	Ѽ	CYRILLIC CAPITAL LETTER OMEGA TITLO
047D	ѽ	CYRILLIC SMALL LETTER OMEGA TITLO
047E	Ѿ	CYRILLIC CAPITAL LETTER OT
047F	ѿ	CYRILLIC SMALL LETTER OT
0480	Ѡ	CYRILLIC CAPITAL LETTER KOPPA
0481	ѡ	CYRILLIC SMALL LETTER KOPPA

**Historic miscellaneous**

0482	Ѣ	CYRILLIC THOUSANDS SIGN
0483	ѣ	CYRILLIC NON-SPACING TITLO
0484	Ѥ	CYRILLIC NON-SPACING PALATALIZATION × ( <i>non-spacing vertical tilde</i> → 033E)
0485	ѥ	CYRILLIC NON-SPACING DASIA PNEUMATA × ( <i>greek non-spacing dasia pneumata</i> → 0371)
0486	Ѧ	CYRILLIC NON-SPACING PSILI PNEUMATA × ( <i>greek non-spacing psili pneumata</i> → 0372)
0487		
0488		
0489		

048A			04A6	Ӏ	CYRILLIC CAPITAL LETTER PE HOOK
048B			04A7	ӓ	CYRILLIC SMALL LETTER PE HOOK <i>Abkhasian</i>
048C			04A8	Ӑ	CYRILLIC CAPITAL LETTER O HOOK
048D			04A9	ӑ	CYRILLIC SMALL LETTER O HOOK <i>Abkhasian</i>
048E			04AA	Ӈ	CYRILLIC CAPITAL LETTER ES CEDILLA
048F			04AB	ӈ	CYRILLIC SMALL LETTER ES CEDILLA <i>Bashkir, Chuvash cedilla form preferred</i>
	<b>Extended Cyrillic</b>		04AC	ӑ	CYRILLIC CAPITAL LETTER TE WITH RIGHT DESCENDER
0490	Ӏ	CYRILLIC CAPITAL LETTER GE WITH UPTURN	04AD	ӓ	CYRILLIC SMALL LETTER TE WITH RIGHT DESCENDER <i>Abkhasian</i>
0491	Ӑ	CYRILLIC SMALL LETTER GE WITH UPTURN <i>Old Ukrainian</i>	04AE	Ӑ	CYRILLIC CAPITAL LETTER STRAIGHT U
0492	ӑ	CYRILLIC CAPITAL LETTER GE BAR	04AF	ӑ	CYRILLIC SMALL LETTER STRAIGHT U <i>stem is straight, unlike LETTER U Azerbaijan, Bashkir, ... × (cyrillic capital letter u → 0423)</i>
0493	Ӈ	CYRILLIC SMALL LETTER GE BAR <i>Azerbaijani, Bashkir, ... full bar form preferred</i>	04B0	Ӑ̅	CYRILLIC CAPITAL LETTER STRAIGHT U BAR
0494	Ӑ̅	CYRILLIC CAPITAL LETTER GE HOOK	04B1	ӑ̅	CYRILLIC SMALL LETTER STRAIGHT U BAR <i>Kazakh</i>
0495	ӑ̅	CYRILLIC SMALL LETTER GE HOOK <i>Abkhasian, Yakut</i>	04B2	Ӑ̅	CYRILLIC CAPITAL LETTER KHA WITH RIGHT DESCENDER
0496	ӑ̅	CYRILLIC CAPITAL LETTER ZHE WITH RIGHT DESCENDER	04B3	ӑ̅	CYRILLIC SMALL LETTER KHA WITH RIGHT DESCENDER <i>Abkhasian, Tajik, ...</i>
0497	ӓ̅	CYRILLIC SMALL LETTER ZHE WITH RIGHT DESCENDER <i>Tatar, ...</i>	04B4	Ӑ̅	CYRILLIC CAPITAL LETTER TE TSE
0498	Ӈ̅	CYRILLIC CAPITAL LETTER ZE CEDILLA	04B5	ӈ̅	CYRILLIC SMALL LETTER TE TSE <i>Abkhasian</i>
0499	ӈ̅	CYRILLIC SMALL LETTER ZE CEDILLA <i>Bashkir cedilla form preferred</i>	04B6	Ӑ̅	CYRILLIC CAPITAL LETTER CHE WITH RIGHT DESCENDER
049A	Ӑ̅	CYRILLIC CAPITAL LETTER KA WITH RIGHT DESCENDER	04B7	ӓ̅	CYRILLIC SMALL LETTER CHE WITH RIGHT DESCENDER <i>Abkhasian, Tajik</i>
049B	ӑ̅	CYRILLIC SMALL LETTER KA WITH RIGHT DESCENDER <i>Abkhasian, Tajik, ...</i>	04B8	Ӑ̅	CYRILLIC CAPITAL LETTER CHE VERTICAL BAR
049C	Ӑ̅	CYRILLIC CAPITAL LETTER KA VERTICAL BAR	04B9	ӓ̅	CYRILLIC SMALL LETTER CHE VERTICAL BAR <i>Azerbaijan</i>
049D	ӑ̅	CYRILLIC SMALL LETTER KA VERTICAL BAR <i>Azerbaijan</i>	04BA	Ӑ̅	CYRILLIC CAPITAL LETTER H
049E	Ӑ̅	CYRILLIC CAPITAL LETTER KA BAR	04BB	ӓ̅	CYRILLIC SMALL LETTER H <i>basically just a Latin "h", but uppercase form 04BA is closer to an inverted che (0427) Azerbaijan, Bashkir, ... × (latin small letter h → 0068)</i>
049F	ӑ̅	CYRILLIC SMALL LETTER KA BAR <i>Abkhasian</i>	04BC	Ӑ̅	CYRILLIC CAPITAL LETTER IE HOOK
04A0	Ӑ̅	CYRILLIC CAPITAL LETTER REVERSED GE KA	04BD	ӓ̅	CYRILLIC SMALL LETTER IE HOOK <i>Abkhasian represents a "che"</i>
04A1	ӑ̅	CYRILLIC SMALL LETTER REVERSED GE KA <i>Bashkir</i>			
04A2	Ӑ̅	CYRILLIC CAPITAL LETTER EN WITH RIGHT DESCENDER			
04A3	ӓ̅	CYRILLIC SMALL LETTER EN WITH RIGHT DESCENDER <i>Bashkir, ...</i>			
04A4	Ӑ̅	CYRILLIC CAPITAL LETTER EN GE			
04A5	ӓ̅	CYRILLIC SMALL LETTER EN GE <i>Altaic, Mari, Yakut</i>			



Code	Character	Description	U+04B0	U+04B1	U+04B2	U+04B3
04BE	Ѳ	CYRILLIC CAPITAL LETTER IE HOOK OGONEK				
04BF	ѳ	CYRILLIC SMALL LETTER IE HOOK OGONEK <i>Abkhasian ogonek form preferred</i>				
04C0	І	CYRILLIC LETTER I <i>aspiration sign in many Caucasian languages has no "lowercase form", i.e. is case- invariant × (cyrillic capital letter i → 0406)</i>				
04C1	Ӏ	CYRILLIC CAPITAL LETTER SHORT ZHE				
04C2	Ӂ	CYRILLIC SMALL LETTER SHORT ZHE <i>Moldavian</i>				
04C3	ӂ	CYRILLIC CAPITAL LETTER KA HOOK				
04C4	Ӄ	CYRILLIC SMALL LETTER KA HOOK <i>Khanty, Chukchi</i>				
04C5	ӄ	CYRILLIC CAPITAL LETTER KA OGONEK				
04C6	Ӆ	CYRILLIC SMALL LETTER KA OGONEK <i>Uzbek</i>				
04C7	ӆ	CYRILLIC CAPITAL LETTER EN HOOK				
04C8	Ӈ	CYRILLIC SMALL LETTER EN HOOK <i>Khanty, Chukchi</i>				
04C9	ӈ	CYRILLIC CAPITAL LETTER KHA OGONEK				
04CA	Ӊ	CYRILLIC SMALL LETTER KHA OGONEK <i>Uzbek</i>				
04CB	ӊ	CYRILLIC CAPITAL LETTER CHE WITH LEFT DESCENDER				
04CC	Ӌ	CYRILLIC SMALL LETTER CHE WITH LEFT DESCENDER <i>Khakassian</i>				



	053	054	055	056	057	058
0		Հ	Ր		հ	ր
1	Ա	Զ	Յ	Ս	ճ	ց
2	Բ	Ղ	Ի	Բ	ղ	լ
3	Գ	Ճ	Փ	Գ	ց	փ
4	Դ	Մ	Բ	Դ	մ	բ
5	Ե	Յ	Օ	Ե	յ	օ
6	Զ	Ն	Ծ	Զ	ն	ծ
7	Է	Շ		է	շ	
8	Ը	Ո		ը	ո	
9	Թ	Չ	՛	թ	չ	:
A	Ժ	Պ	՛	ժ	պ	
B	Ի	Ջ	՛	ի	ջ	
C	Լ	Դ	՛	լ	դ	
D	Խ	Ս	՛	խ	ս	
E	Վ	Վ	՞	վ	վ	
F	Կ	Տ	՛	կ	տ	

## Uppercase letters

0530		
0531	Ա	ARMENIAN CAPITAL LETTER AYB
0532	Բ	ARMENIAN CAPITAL LETTER BEN
0533	Գ	ARMENIAN CAPITAL LETTER GIM
0534	Դ	ARMENIAN CAPITAL LETTER DA
0535	Ե	ARMENIAN CAPITAL LETTER ECH
0536	Զ	ARMENIAN CAPITAL LETTER ZA
0537	Է	ARMENIAN CAPITAL LETTER EH
0538	Ը	ARMENIAN CAPITAL LETTER ET
0539	Թ	ARMENIAN CAPITAL LETTER TO
053A	Ճ	ARMENIAN CAPITAL LETTER ZHE
053B	Ի	ARMENIAN CAPITAL LETTER INI
053C	Լ	ARMENIAN CAPITAL LETTER LIWN
053D	Խ	ARMENIAN CAPITAL LETTER XEH
053E	Մ	ARMENIAN CAPITAL LETTER CA
053F	Կ	ARMENIAN CAPITAL LETTER KEN
0540	Հ	ARMENIAN CAPITAL LETTER HO
0541	Ջ	ARMENIAN CAPITAL LETTER JA
0542	Դ	ARMENIAN CAPITAL LETTER LAD
0543	Յ	ARMENIAN CAPITAL LETTER CHEH
0544	Մ	ARMENIAN CAPITAL LETTER MEN
0545	Յ	ARMENIAN CAPITAL LETTER YI
0546	Ն	ARMENIAN CAPITAL LETTER NOW
0547	Շ	ARMENIAN CAPITAL LETTER SHA
0548	Ո	ARMENIAN CAPITAL LETTER VO
0549	Չ	ARMENIAN CAPITAL LETTER CHA
054A	Պ	ARMENIAN CAPITAL LETTER PEH
054B	Ջ	ARMENIAN CAPITAL LETTER JHEH
054C	Ռ	ARMENIAN CAPITAL LETTER RA
054D	Ս	ARMENIAN CAPITAL LETTER SEH
054E	Վ	ARMENIAN CAPITAL LETTER VEW
054F	Տ	ARMENIAN CAPITAL LETTER TIWN
0550	Ր	ARMENIAN CAPITAL LETTER REH
0551	Ց	ARMENIAN CAPITAL LETTER CO
0552	Ի	ARMENIAN CAPITAL LETTER YIWN
0553	Փ	ARMENIAN CAPITAL LETTER PIWR
0554	Ք	ARMENIAN CAPITAL LETTER KEH
0555	Օ	ARMENIAN CAPITAL LETTER OH
0556	Ֆ	ARMENIAN CAPITAL LETTER FEH
0557		
0558		

## Modifier letters

0559	◌̈́	ARMENIAN MODIFIER LETTER LEFT HALF RING × ( <i>modifier letter reversed comma</i> → 02BD) × ( <i>modifier letter left half ring</i> → 02BF) × ( <i>greek non-spacing dasia pneumata</i> → 0371)
055A	◌̈́	ARMENIAN MODIFIER LETTER RIGHT HALF RING = ISO ARMENIAN APOSTROPHE × ( <i>modifier letter apostrophe</i> → 02BC) × ( <i>modifier letter right half ring</i> → 02BE) × ( <i>greek non-spacing psili pneumata</i> → 0372)
055B	◌̈́	ARMENIAN EMPHASIS MARK = <i>shesht</i> × ( <i>modifier letter acute</i> → 02CA)
055C	◌̈́	ARMENIAN EXCLAMATION MARK = <i>batsaganchakan nshan</i>
055D	◌̈́	ARMENIAN COMMA = <i>boot</i> × ( <i>modifier letter grave</i> → 02CB)
055E	◌̈́	ARMENIAN QUESTION MARK = <i>hartsakan nshan</i>
055F	◌̈́	ARMENIAN ABBREVIATION MARK = <i>patiw</i>

## Lowercase letters

0560		
0561	ա	ARMENIAN SMALL LETTER AYB
0562	բ	ARMENIAN SMALL LETTER BEN
0563	գ	ARMENIAN SMALL LETTER GIM
0564	դ	ARMENIAN SMALL LETTER DA
0565	ե	ARMENIAN SMALL LETTER ECH
0566	զ	ARMENIAN SMALL LETTER ZA
0567	է	ARMENIAN SMALL LETTER EH
0568	ը	ARMENIAN SMALL LETTER ET
0569	թ	ARMENIAN SMALL LETTER TO
056A	ճ	ARMENIAN SMALL LETTER ZHE
056B	ի	ARMENIAN SMALL LETTER INI
056C	լ	ARMENIAN SMALL LETTER LIWN
056D	խ	ARMENIAN SMALL LETTER XEH
056E	մ	ARMENIAN SMALL LETTER CA
056F	կ	ARMENIAN SMALL LETTER KEN
0570	հ	ARMENIAN SMALL LETTER HO
0571	ձ	ARMENIAN SMALL LETTER JA
0572	դ	ARMENIAN SMALL LETTER LAD
0573	յ	ARMENIAN SMALL LETTER CHEH
0574	մ	ARMENIAN SMALL LETTER MEN

0575	յ	ARMENIAN SMALL LETTER YI
0576	ղ	ARMENIAN SMALL LETTER NOW
0577	շ	ARMENIAN SMALL LETTER SHA
0578	ռ	ARMENIAN SMALL LETTER VO
0579	չ	ARMENIAN SMALL LETTER CHA
057A	պ	ARMENIAN SMALL LETTER PEH
057B	ղ	ARMENIAN SMALL LETTER JHEH
057C	ր	ARMENIAN SMALL LETTER RA
057D	ս	ARMENIAN SMALL LETTER SEH
057E	վ	ARMENIAN SMALL LETTER VEV
057F	տ	ARMENIAN SMALL LETTER TIWN
0580	ր	ARMENIAN SMALL LETTER REH
0581	ց	ARMENIAN SMALL LETTER CO
0582	լ	ARMENIAN SMALL LETTER YIWN
0583	փ	ARMENIAN SMALL LETTER PIWR
0584	ք	ARMENIAN SMALL LETTER KEH
0585	օ	ARMENIAN SMALL LETTER OH
0586	ֆ	ARMENIAN SMALL LETTER FEH
0587		
0588		

**Punctuation**

0589	:	ARMENIAN PERIOD = <i>vertsaket</i> = <i>Georgian period</i> may also be used for Georgian X ( <i>colon</i> → 003A)
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	059	05A	05B	05C	05D	05E	05F
0			◌ְ	׀	א	נ	וּ
1			◌ִ	◌ֹ	ב	ס	וִי
2			◌ֵ	◌ֺ	ג	ע	״
3			◌ֶ	׃	ד	ף	'
4			◌ַ		ה	פ	”
5			◌ָ		ו	ץ	◌ֹ
6			◌ֹ		ז	צ	
7			◌ֺ		ח	ק	
8			◌ֻ		ט	ר	
9			◌ּ		י	ש	
A					ך	ת	
B			◌ֽ		כ		
C			◌ֿ		ל		
D			◌ֻ		ם		
E			◌ֿ		מ		
F			◌ֹ		ן		



## Cantillation marks, accents (TBD)

0590  
0591  
0592  
0593  
0594  
0595  
0596  
0597  
0598  
0599  
059A  
059B  
059C  
059D  
059E  
059F  
05A0  
05A1  
05A2  
05A3  
05A4  
05A5  
05A6  
05A7  
05A8  
05A9  
05AA  
05AB  
05AC  
05AD  
05AE  
05AF

## Points and punctuation

05B0 ○ HEBREW POINT SHEVA  
05B1 ○ HEBREW POINT HATAF SEGOL  
05B2 ○ HEBREW POINT HATAF PATAH  
05B3 ○ HEBREW POINT HATAF QAMATS  
05B4 ○ HEBREW POINT HIRIQ  
05B5 ○ HEBREW POINT TSERE  
05B6 ○ HEBREW POINT SEGOL  
05B7 ○ HEBREW POINT PATAH  
*furtive Patah is not a distinct character*  
05B8 ○ HEBREW POINT QAMATS  
05B9 ○ HEBREW POINT HOLAM

05BA  
05BB ○ HEBREW POINT QUBUTS  
05BC ○ HEBREW POINT DAGESH  
= *shuruq*  
= *mapiq*  
*falls within the base letter*  
05BD ○ HEBREW POINT METEG  
= *siluq*  
05BE - HEBREW PUNCTUATION MAQAF  
05BF ○ HEBREW POINT RAPE  
05C0 | HEBREW POINT PASEQ  
= *legarmeh*  
*may be treated as spacing punctuation,*  
*not as a point*  
05C1 ○ HEBREW POINT SHIN DOT  
05C2 ○ HEBREW POINT SIN DOT  
05C3 : HEBREW PUNCTUATION SOF PASUQ  
05C4  
05C5  
05C6  
05C7  
05C8  
05C9  
05CA  
05CB  
05CC  
05CD  
05CE  
05CF

## Based on ISO 8859-8

05D0 ⚭ HEBREW LETTER ALEF  
= *aleph*  
× (first transfinite cardinal → 2135)  
05D1 ב HEBREW LETTER BET  
× (second transfinite cardinal → 2136)  
05D2 ג HEBREW LETTER GIMEL  
× (third transfinite cardinal → 2137)  
05D3 ד HEBREW LETTER DALET  
× (fourth transfinite cardinal → 2138)  
05D4 ה HEBREW LETTER HE  
05D5 ו HEBREW LETTER VAV  
05D6 ז HEBREW LETTER ZAYIN  
05D7 ח HEBREW LETTER HET  
05D8 ט HEBREW LETTER TET  
05D9 י HEBREW LETTER YOD  
05DA ך HEBREW LETTER FINAL KAF  
= *terminal kaf*  
05DB כ HEBREW LETTER KAF

05DC	ֿ	HEBREW LETTER LAMED
05DD	׀	HEBREW LETTER FINAL MEM = <i>terminal mem</i>
05DE	מ	HEBREW LETTER MEM
05DF	ׁ	HEBREW LETTER FINAL NUN = <i>terminal nun</i>
05E0	נ	HEBREW LETTER NUN
05E1	ס	HEBREW LETTER SAMEKH
05E2	ע	HEBREW LETTER AYIN
05E3	׃	HEBREW LETTER FINAL PE = <i>terminal pe</i>
05E4	פ	HEBREW LETTER PE
05E5	׀	HEBREW LETTER FINAL TSADI = <i>terminal zade</i>
05E6	צ	HEBREW LETTER TSADI = <i>zade</i>
05E7	ק	HEBREW LETTER QOF
05E8	ר	HEBREW LETTER RESH
05E9	שׁ	HEBREW LETTER SHIN
05EA	ת	HEBREW LETTER TAV
05EB		
05EC		
05ED		
05EE		
05EF		

**Yiddish digraphs**

05F0	ײ	HEBREW LETTER DOUBLE VAV = <i>tsvey vovn</i>
05F1	ױ	HEBREW LETTER VAV YOD
05F2	ײ	HEBREW LETTER DOUBLE YOD = <i>tsvey yudn</i>

**Additional punctuation**

05F3	'	HEBREW PUNCTUATION GERESH
05F4	”	HEBREW PUNCTUATION GERSHAYIM

**Additional point**

05F5	◌̇	HEBREW POINT VARİKA <i>Ladino/Judezmo</i>
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	060	061	062	063	064	065	066	067
0				ذ	ـ	◌ِ	◌ِ	◌ِ
1			ء	ر	ف	◌ِ	١	أ
2			آ	ز	ق	◌ِ	٢	أ
3			أ	س	ك		٣	أ
4			ؤ	ش	ل		٤	ء
5			إ	ص	م		٥	أ
6			رئى	ض	ن		٦	ءو
7			ا	ط	هـ		٧	ءو
8			ب	ظ	و		٨	عمى
9			ة	ع	ى		٩	ط
A			ت	غ	ي		%	ث
B		؛	ث		◌ِ		د	ب
C	،		ج		◌ِ		د،	ت
D			ح		◌ِ			ث
E			خ		◌ِ			پ
F		؟	د		◌ِ			ث

	068	069	06A	06B	06C	06D	06E	06F
0	پ	ڈ	شغ	لگ	ہ	ہی		۰
1	ع	ڑ	ف	نگ	ہ	پی		۱
2	ع	ز	فب	گی	ہ	ے		۲
3	ع	د	فب	گی	ہ	ے		۳
4	ع	ر	قا	نگ	ہ	-		۴
5	ع	پ	پا	ن	و	ہ		۵
6	ع	ب	قا	ن	و			۶
7	ع	ر	ف	ن	و			۷
8	ڑ	ر	ق		و			۸
9	د	ر	کا		و			۹
A	د	نیں	کا	ن	ق			
B	د	پیں	گا	ن	ق			
C	د	پیں	ن	ن	ی			
D	د	پیں	ن	ن	ی			
E	د	ض	پ	ہ	ی			
F	د	ظ	گ					



Based on ISO 8859-6			
0600	× (non-breaking space → 00A0)	0629	ة ARABIC LETTER TAA MARBUTAH
0601		062A	ت ARABIC LETTER TAA
0602		062B	ث ARABIC LETTER THAA
0603		062C	ج ARABIC LETTER JEEM
0604	× (currency sign → 00A4)	062D	ح ARABIC LETTER HAA
0605		062E	خ ARABIC LETTER KHAA
0606		062F	د ARABIC LETTER DAL
0607		0630	ذ ARABIC LETTER THAL
0608		0631	ر ARABIC LETTER RA
0609		0632	ز ARABIC LETTER ZAIN
060A		0633	س ARABIC LETTER SEEN
060B		0634	ش ARABIC LETTER SHEEN
060C	، ARABIC COMMA × (comma → 002C)	0635	ص ARABIC LETTER SAD
060D	× (soft hyphen → 00AD)	0636	ض ARABIC LETTER DAD
060E		0637	ط ARABIC LETTER TAH
060F		0638	ظ ARABIC LETTER DHAH
0610		0639	ع ARABIC LETTER AIN × (latin small letter reversed yogh → 01B9) × (modifier letter left half ring → 02BF)
0611		063A	غ ARABIC LETTER GHAIN
0612		063B	
0613		063C	
0614		063D	
0615		063E	
0616		063F	
0617		0640	— ARABIC TATWEEL = <i>kashida</i> inserted to stretch characters
0618		0641	ف ARABIC LETTER FA
0619		0642	ق ARABIC LETTER QAF
061A		0643	ك ARABIC LETTER CAF
061B	؛ ARABIC SEMICOLON × (semicolon → 003B)	0644	ل ARABIC LETTER LAM
061C		0645	م ARABIC LETTER MEEM
061D		0646	ن ARABIC LETTER NOON
061E		0647	هـ ARABIC LETTER HA
061F	؟ ARABIC QUESTION MARK × (question mark → 003F)	0648	و ARABIC LETTER WAW
0620		0649	ى ARABIC LETTER ALEF MAQSURAH
0621	ء ARABIC LETTER HAMZAH × (modifier letter right half ring → 02BE)	064A	ي ARABIC LETTER YA
0622	آ ARABIC LETTER MADDAH ON ALEF	<b>Points from ISO 8859-6</b>	
0623	أ ARABIC LETTER HAMZAH ON ALEF	064B	◌ْ ARABIC FATHATAN
0624	ؤ ARABIC LETTER HAMZAH ON WAW	064C	◌◌ ARABIC DAMMATAN
0625	إ ARABIC LETTER HAMZAH UNDER ALEF	064D	◌◌◌ ARABIC KASRATAN
0626	أى ARABIC LETTER HAMZAH ON YA	064E	◌◌◌◌ ARABIC FATHAH
0627	ا ARABIC LETTER ALEF	064F	◌◌◌◌◌ ARABIC DAMMAH
0628	ب ARABIC LETTER BAA	0650	◌◌◌◌◌◌ ARABIC KASRAH

0651	◌ّ	ARABIC SHADDAH
0652	◌◌	ARABIC SUKUN
0653		
0654		
0655		
0656		
0657		
0658		
0659		
065A		
065B		
065C		
065D		
065E		
065F		

**Arabic-Indic digits**

0660	٠	ARABIC-INDIC DIGIT ZERO
0661	١	ARABIC-INDIC DIGIT ONE
0662	٢	ARABIC-INDIC DIGIT TWO
0663	٣	ARABIC-INDIC DIGIT THREE
0664	٤	ARABIC-INDIC DIGIT FOUR
0665	٥	ARABIC-INDIC DIGIT FIVE
0666	٦	ARABIC-INDIC DIGIT SIX
0667	٧	ARABIC-INDIC DIGIT SEVEN
0668	٨	ARABIC-INDIC DIGIT EIGHT
0669	٩	ARABIC-INDIC DIGIT NINE
066A	٪	ARABIC PERCENT SIGN × (percent sign → 0025)
066B	٫	ARABIC DECIMAL SEPARATOR
066C	٬	ARABIC THOUSANDS SEPARATOR
066D		
066E		
066F		

**Point**

0670 ◌◌◌ ARABIC ALEF ABOVE

**Extended Arabic letters**

0671	ﺀ	ARABIC LETTER HAMZAT WASL ON ALEF <i>Arabic</i>
0672	ﻻ	ARABIC LETTER WAVY HAMZAH ON ALEF <i>Baluchi, Kashmiri</i>
0673	ﻻ̣	ARABIC LETTER WAVY HAMZAH UNDER ALEF <i>Baluchi, Kashmiri</i>

0674	ء	ARABIC LETTER HIGH HAMZAH <i>Kazakh forms digraphs</i>
0675	ﺀ	ARABIC LETTER HIGH HAMZAH ALEF <i>Kazakh</i>
0676	ﻮ	ARABIC LETTER HIGH HAMZAH WAW <i>Kazakh</i>
0677	ﻮ̣	ARABIC LETTER HIGH HAMZAH WAW WITH DAMMAH <i>Kazakh</i>
0678	ﻪﺀ	ARABIC LETTER HIGH HAMZAH YA <i>Kazakh</i>
0679	ٹ	ARABIC LETTER TAA WITH SMALL TAH <i>Urdu</i>
067A	ث	ARABIC LETTER TAA WITH TWO DOTS VERTICAL ABOVE <i>Sindhi</i>
067B	پ	ARABIC LETTER BAA WITH TWO DOTS VERTICAL BELOW <i>Sindhi</i>
067C	ٲ	ARABIC LETTER TAA WITH RING <i>Pashto</i>
067D	ٴ	ARABIC LETTER TAA WITH THREE DOTS ABOVE DOWNWARD <i>Sindhi</i>
067E	پ	ARABIC LETTER TAA WITH THREE DOTS BELOW = <i>peh</i> <i>Persian, Urdu, ...</i>
067F	ٴ	ARABIC LETTER TAA WITH FOUR DOTS ABOVE <i>Sindhi</i>
0680	پ	ARABIC LETTER BAA WITH FOUR DOTS BELOW <i>Sindhi</i>
0681	ځ	ARABIC LETTER HAMZAH ON HAA <i>Pashto</i>
0682	ځ	ARABIC LETTER HAA WITH TWO DOTS VERTICAL ABOVE <i>Pashto</i>
0683	ڄ	ARABIC LETTER HAA WITH MIDDLE TWO DOTS <i>Sindhi</i>
0684	ڄ	ARABIC LETTER HAA WITH MIDDLE TWO DOTS VERTICAL <i>Sindhi</i>
0685	څ	ARABIC LETTER HAA WITH THREE DOTS ABOVE <i>Pashto</i>
0686	ڇ	ARABIC LETTER HAA WITH MIDDLE THREE DOTS DOWNWARD = <i>tcheh</i> <i>Persian, Urdu, ...</i>
0687	ڇ	ARABIC LETTER HAA WITH MIDDLE FOUR DOTS <i>Sindhi</i>

0688	ڏ	ARABIC LETTER DAL WITH SMALL TAH <i>Urdu</i>	069D	ص	ARABIC LETTER SAD WITH TWO DOTS BELOW <i>Turkic</i>
0689	ډ	ARABIC LETTER DAL WITH RING <i>Pashto</i>	069E	ض	ARABIC LETTER SAD WITH THREE DOTS ABOVE <i>Berber</i>
068A	ڊ	ARABIC LETTER DAL WITH DOT BELOW <i>Sindhi</i>	069F	ظ	ARABIC LETTER TAH WITH THREE DOTS ABOVE <i>old Hausa</i>
068B	ڙ	ARABIC LETTER DAL WITH DOT BELOW AND SMALL TAH <i>Lahnda</i>	06A0	غ	ARABIC LETTER AIN WITH THREE DOTS ABOVE <i>old Malay</i>
068C	ڌ	ARABIC LETTER DAL WITH TWO DOTS ABOVE <i>Sindhi</i>	06A1	ف	ARABIC LETTER DOTLESS FA <i>Adighe</i>
068D	ڍ	ARABIC LETTER DAL WITH TWO DOTS BELOW <i>Sindhi</i>	06A2	ڦ	ARABIC LETTER FA WITH DOT MOVED BELOW <i>Maghrib Arabic</i>
068E	ڏ	ARABIC LETTER DAL WITH THREE DOTS ABOVE <i>Sindhi</i>	06A3	ڻ	ARABIC LETTER FA WITH DOT BELOW <i>Ingush</i>
068F	ڌ	ARABIC LETTER DAL WITH THREE DOTS ABOVE DOWNWARD <i>Sindhi</i>	06A4	ڦ	ARABIC LETTER FA WITH THREE DOTS ABOVE = <i>veh</i> <i>Arabic for foreign words</i>
0690	ڏ	ARABIC LETTER DAL WITH FOUR DOTS ABOVE <i>Urdu</i>	06A5	ڦ	ARABIC LETTER FA WITH THREE DOTS BELOW <i>Arabic for foreign words</i>
0691	ڙ	ARABIC LETTER RA WITH SMALL TAH <i>Urdu</i>	06A6	ڦ	ARABIC LETTER FA WITH FOUR DOTS ABOVE <i>Sindhi</i>
0692	ژ	ARABIC LETTER RA WITH SMALL V <i>Kurdish</i>	06A7	ڦ	ARABIC LETTER QAF WITH DOT ABOVE <i>Maghrib Arabic</i>
0693	ڙ	ARABIC LETTER RA WITH RING <i>Pashto</i>	06A8	ڦ	ARABIC LETTER QAF WITH THREE DOTS ABOVE <i>Tunisian Arabic</i>
0694	ڙ	ARABIC LETTER RA WITH DOT BELOW <i>Kurdish</i>	06A9	ک	ARABIC LETTER OPEN CAF <i>Persian, Urdu, ...</i>
0695	ڙ	ARABIC LETTER RA WITH SMALL V BELOW <i>Kurdish</i>	06AA	ڪ	ARABIC LETTER SWASH CAF <i>(various)</i>
0696	ڙ	ARABIC LETTER RA WITH DOT BELOW AND DOT ABOVE <i>Pashto</i>	06AB	گ	ARABIC LETTER CAF WITH RING <i>Pashto</i>
0697	ڙ	ARABIC LETTER RA WITH TWO DOTS ABOVE <i>Dargwa</i>	06AC	گ	ARABIC LETTER CAF WITH DOT ABOVE <i>old Malay</i>
0698	ڙ	ARABIC LETTER RA WITH THREE DOTS ABOVE = <i>jeh</i> <i>Persian, Urdu, ...</i>	06AD	گ	ARABIC LETTER CAF WITH THREE DOTS ABOVE <i>Uighur, Kazakh, old Malay, ...</i>
0699	ڙ	ARABIC LETTER RA WITH FOUR DOTS ABOVE <i>Sindhi</i>	06AE	گ	ARABIC LETTER CAF WITH THREE DOTS BELOW <i>Berber</i>
069A	ښ	ARABIC LETTER SEEN WITH DOT BELOW AND DOT ABOVE <i>Pashto</i>	06AF	گ	ARABIC LETTER GAF <i>Persian, Urdu, ...</i>
069B	ښ	ARABIC LETTER SEEN WITH THREE DOTS BELOW <i>Uighur</i>	06B0	گ	ARABIC LETTER GAF WITH RING <i>Lahnda</i>
069C	ښ	ARABIC LETTER SEEN WITH THREE DOTS BELOW AND THREE DOTS ABOVE <i>Moroccan Arabic</i>	06B1	گ	ARABIC LETTER GAF WITH TWO DOTS ABOVE <i>Sindhi</i>

06B2	گي	ARABIC LETTER GAF WITH TWO DOTS BELOW <i>Sindhi</i>	06CA	و	ARABIC LETTER WAW WITH TWO DOTS ABOVE <i>Kurdish</i>
06B3	گب	ARABIC LETTER GAF WITH TWO DOTS VERTICAL BELOW <i>Sindhi</i>	06CB	وٓ	ARABIC LETTER WAW WITH THREE DOTS ABOVE <i>Uighur, Kazakh</i>
06B4	گش	ARABIC LETTER GAF WITH THREE DOTS ABOVE <i>Sindhi</i>	06CC	ى	ARABIC LETTER DOTLESS YA <i>Arabic, Persian, Urdu, ...</i>
06B5	ل	ARABIC LETTER LAM WITH SMALL V <i>Kurdish</i>	06CD	ىٔ	ARABIC LETTER YA WITH TAIL <i>Pashto, Sindhi</i>
06B6	لٓ	ARABIC LETTER LAM WITH DOT ABOVE <i>Kurdish</i>	06CE	ىٖ	ARABIC LETTER YA WITH SMALL V <i>Kurdish</i>
06B7	لٓٓ	ARABIC LETTER LAM WITH THREE DOTS ABOVE <i>Kurdish</i>	06CF		
06B8			06D0	يٓ	ARABIC LETTER YA WITH TWO DOTS VERTICAL BELOW <i>Pashto, Uighur</i>
06B9			06D1	يٓٓ	ARABIC LETTER YA WITH THREE DOTS BELOW <i>old Malay</i>
06BA	و	ARABIC LETTER DOTLESS NOON <i>Urdu</i>	06D2	ء	ARABIC LETTER YA BARREE <i>Urdu</i>
06BB	وٓ	ARABIC LETTER DOTLESS NOON WITH SMALL TAH <i>Sindhi</i>	06D3	ءٓ	ARABIC LETTER HAMZAH ON YA BARREE <i>Urdu</i>
06BC	و٘	ARABIC LETTER NOON WITH RING <i>Pashto</i>	06D4	-	ARABIC PERIOD <i>Urdu</i>
06BD	وٓٓ	ARABIC LETTER NOON WITH THREE DOTS ABOVE <i>old Malay</i>	06D5	ؤ	ARABIC LETTER AE <i>Uighur, Kazakh, Kirghiz</i>
06BE	ھ	ARABIC LETTER KNOTTED HA <i>Urdu</i> <i>forms aspirate digraphs</i>	06D6		
06BF			06D7		
06C0	هٔ	ARABIC LETTER HAMZAH ON HA <i>Persian</i>	06D8		
06C1	هٔ	ARABIC LETTER HA GOAL <i>Urdu</i>	06D9		
06C2	هٔٓ	ARABIC LETTER HAMZAH ON HA GOAL <i>Urdu</i>	06DA		
06C3	هٔٓ	ARABIC LETTER TAA MARBUTAH GOAL <i>Urdu</i>	06DB		
06C4	و٘	ARABIC LETTER WAW WITH RING <i>Kashmiri</i>	06DC		
06C5	و٘ٓ	ARABIC LETTER WAW WITH BAR <i>Kirghiz</i>	06DD		
06C6	وٖ٘	ARABIC LETTER WAW WITH SMALL V <i>Uighur, Kurdish, Kazah</i>	06DE		
06C7	و٘ٗ	ARABIC LETTER WAW WITH DAMMAH <i>Kirghiz</i>	06DF		
06C8	و٘٘	ARABIC LETTER WAW WITH ALEF ABOVE <i>Uighur</i>	06E0		
06C9	و٘ٙ	ARABIC LETTER WAW WITH INVERTED SMALL V <i>Kazakh, Kirghiz</i>	06E1		
			06E2		
			06E3		
			06E4		
			06E5		
			06E6		
			06E7		
			06E8		
			06E9		
			06EA		
			06EB		
			06EC		

06ED

Arabic

06FF

06ED

06EE

06EF

**Eastern Arabic-Indic digits  
(Persian and Urdu)**

- 06F0 ۰ EASTERN ARABIC-INDIC DIGIT ZERO
- 06F1 ۱ EASTERN ARABIC-INDIC DIGIT ONE
- 06F2 ۲ EASTERN ARABIC-INDIC DIGIT TWO
- 06F3 ۳ EASTERN ARABIC-INDIC DIGIT THREE
- 06F4 ۴|۴ EASTERN ARABIC-INDIC DIGIT FOUR  
*different glyphs in Persian and Urdu*
- 06F5 ۵ EASTERN ARABIC-INDIC DIGIT FIVE  
*Persian and Urdu share glyph different  
from Arabic*
- 06F6 ۶|۶ EASTERN ARABIC-INDIC DIGIT SIX  
*Persian glyph different from Arabic*
- 06F7 ۷|۷ EASTERN ARABIC-INDIC DIGIT SEVEN  
*Urdu glyph different from Arabic*
- 06F8 ۸ EASTERN ARABIC-INDIC DIGIT EIGHT
- 06F9 ۹ EASTERN ARABIC-INDIC DIGIT NINE





	090	091	092	093	094	095	096	097
0		ऐ	ठ	र	ी	ॐ	ॠ	०
1	ँ	ऑ	ड	र	ु	ं	ॡ	
2	ं	औ	ढ	ल	ु	ं	ॢ	
3	:	ओ	ण	ळ	ु	े	ॣ	
4		औ	त	ळ	ु	े	।	
5	अ	क	थ	व	ँ		॥	
6	आ	ख	द	श	ँ		०	
7	इ	ग	ध	ष	े		१	
8	ई	घ	न	स	ै	क	२	
9	उ	ङ	न	ह	ँ	ख	३	
A	ऊ	च	प		ँ	ग	४	
B	ॠ	छ	फ		ँ	ज	५	
C	ॡ	ज	ब	ं	ँ	ड	६	
D	ँ	झ	भ	ऽ	ं	ढ	७	
E	ऐ	ञ	म	।		फ	८	
F	ए	ट	य	ि		य	९	

## Based on ISCII 1988

## Various signs

0900		
0901	◌ं	DEVANAGARI SIGN CANDRABINDU = <i>anunasika</i> × (non-spacing candrabindu → 0310)
0902	◌ँ	DEVANAGARI SIGN ANUSVARA = <i>bindu</i>
0903	:	DEVANAGARI SIGN VISARGA
0904		

## Independent vowels

0905	अ	DEVANAGARI LETTER A
0906	आ	DEVANAGARI LETTER AA
0907	इ	DEVANAGARI LETTER I
0908	ई	DEVANAGARI LETTER II
0909	उ	DEVANAGARI LETTER U
090A	ऊ	DEVANAGARI LETTER UU
090B	ऋ	DEVANAGARI LETTER VOCALIC R = ISO DEVANAGARI LETTER RI
090C	ॠ	DEVANAGARI LETTER VOCALIC L = ISO DEVANAGARI LETTER LRI
090D	ए	DEVANAGARI LETTER CANDRA E
090E	ऐ	DEVANAGARI LETTER SHORT E for transcribing Dravidian short e
090F	ऎ	DEVANAGARI LETTER E
0910	ए	DEVANAGARI LETTER AI
0911	ओ	DEVANAGARI LETTER CANDRA O
0912	औ	DEVANAGARI LETTER SHORT O for transcribing Dravidian short o
0913	ओ	DEVANAGARI LETTER O
0914	औ	DEVANAGARI LETTER AU

## Consonants

0915	क	DEVANAGARI LETTER KA
0916	ख	DEVANAGARI LETTER KHA
0917	ग	DEVANAGARI LETTER GA
0918	घ	DEVANAGARI LETTER GHA
0919	ङ	DEVANAGARI LETTER NGA
091A	च	DEVANAGARI LETTER CA
091B	छ	DEVANAGARI LETTER CHA
091C	ज	DEVANAGARI LETTER JA
091D	झ	DEVANAGARI LETTER JHA
091E	ञ	DEVANAGARI LETTER NYA
091F	ट	DEVANAGARI LETTER TTA
0920	ठ	DEVANAGARI LETTER TTHA
0921	ड	DEVANAGARI LETTER DDA
0922	ढ	DEVANAGARI LETTER DDHA

0923	ण	DEVANAGARI LETTER NNA = ISO DEVANAGARI LETTER NDA
0924	त	DEVANAGARI LETTER TA
0925	थ	DEVANAGARI LETTER THA
0926	द	DEVANAGARI LETTER DA
0927	ध	DEVANAGARI LETTER DHA
0928	न	DEVANAGARI LETTER NA
0929	न्	DEVANAGARI LETTER NNNA = ISO DEVANAGARI LETTER NNA for transcribing Tamil alveolar n

092A	प	DEVANAGARI LETTER PA
092B	फ	DEVANAGARI LETTER PHA
092C	ब	DEVANAGARI LETTER BA
092D	भ	DEVANAGARI LETTER BHA
092E	म	DEVANAGARI LETTER MA
092F	य	DEVANAGARI LETTER YA
0930	र	DEVANAGARI LETTER RA
0931	र्	DEVANAGARI LETTER RRA for transcribing Tamil alveolar r
0932	ल	DEVANAGARI LETTER LA
0933	ळ	DEVANAGARI LETTER LLA = ISO DEVANAGARI LETTER LDA
0934	ळ	DEVANAGARI LETTER LLLA = ISO DEVANAGARI LETTER LLA for transcribing Tamil l
0935	व	DEVANAGARI LETTER VA
0936	श	DEVANAGARI LETTER SHA
0937	ष	DEVANAGARI LETTER SSA
0938	स	DEVANAGARI LETTER SA
0939	ह	DEVANAGARI LETTER HA

## Various signs

093A		
093B		× (zero width non-joiner → 200C)
093C	◌ु	DEVANAGARI SIGN NUKTA for extending the alphabet to new letters
093D	॥	DEVANAGARI SIGN AVAGRAHA

## Dependent vowel signs

093E	।	DEVANAGARI VOWEL SIGN AA
093F	ि	DEVANAGARI VOWEL SIGN I stands to the left of the consonant
0940	ी	DEVANAGARI VOWEL SIGN II
0941	ु	DEVANAGARI VOWEL SIGN U
0942	ू	DEVANAGARI VOWEL SIGN UU
0943	ृ	DEVANAGARI VOWEL SIGN VOCALIC R = ISO DEVANAGARI VOWEL SIGN RI

0944	ॠ	DEVANAGARI VOWEL SIGN VOCALIC RR = ISO DEVANAGARI VOWEL SIGN RII
0945	ॡ	DEVANAGARI VOWEL SIGN CANDRA E = <i>candra</i>
0946	ॢ	DEVANAGARI VOWEL SIGN SHORT E <i>for transcribing Dravidian vowels</i>
0947	ॣ	DEVANAGARI VOWEL SIGN E
0948	।	DEVANAGARI VOWEL SIGN AI
0949	॥	DEVANAGARI VOWEL SIGN CANDRA O
094A	०	DEVANAGARI VOWEL SIGN SHORT O <i>for transcribing Dravidian vowels</i>
094B	ॡ	DEVANAGARI VOWEL SIGN O
094C	ॢ	DEVANAGARI VOWEL SIGN AU

**Various signs**

094D	ॣ	DEVANAGARI SIGN VIRAMA = <i>halant</i> <i>suppresses inherent vowel</i>
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094E

094F

0950	ॠ	DEVANAGARI OM
0951	ॡ	DEVANAGARI STRESS SIGN UDATTA
0952	ॢ	DEVANAGARI STRESS SIGN ANUDATTA
0953	ॣ	DEVANAGARI GRAVE ACCENT
0954	।	DEVANAGARI ACUTE ACCENT

0955

0956

0957

**Additional consonants**

0958	क	DEVANAGARI LETTER QA
0959	ख	DEVANAGARI LETTER KHHA
095A	ग	DEVANAGARI LETTER GHHA
095B	ज	DEVANAGARI LETTER ZA
095C	ड	DEVANAGARI LETTER DDDHA
095D	ढ	DEVANAGARI LETTER RHA
095E	फ	DEVANAGARI LETTER FA
095F	य	DEVANAGARI LETTER YYA

**Generic additions**

0960	ॠ	DEVANAGARI LETTER VOCALIC RR
0961	ॡ	DEVANAGARI LETTER VOCALIC LL
0962	ॢ	DEVANAGARI VOWEL SIGN VOCALIC L
0963	ॣ	DEVANAGARI VOWEL SIGN VOCALIC LL
0964	।	DEVANAGARI DANDA = <i>phrase separator</i> × ( <i>tibetan shad</i> → 1034)

0965	॥	DEVANAGARI DOUBLE DANDA × ( <i>tibetan double shad</i> → 104A)
0966	०	DEVANAGARI DIGIT ZERO
0967	१	DEVANAGARI DIGIT ONE
0968	२	DEVANAGARI DIGIT TWO
0969	३	DEVANAGARI DIGIT THREE
096A	४	DEVANAGARI DIGIT FOUR
096B	५	DEVANAGARI DIGIT FIVE
096C	६	DEVANAGARI DIGIT SIX
096D	७	DEVANAGARI DIGIT SEVEN
096E	८	DEVANAGARI DIGIT EIGHT
096F	९	DEVANAGARI DIGIT NINE

**Devanagari-specific additions**

0970	०	DEVANAGARI ABBREVIATION SIGN
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	098	099	09A	09B	09C	09D	09E	09F
0		ঐ	ঔ	ঝ	ঞ		ঠ	ড
1	ঁ		ড		়		ঢ	ণ
2	ং		ত	থ	়		়	ঢ
3	ঃ	তে	ণ		়		়	ট
4		থে	ণ		়			ঢ
5	অ	ক	খ					ূ
6	আ	খ	দ	শ			০	ৃ
7	ই	গ	ধ	ষ	ে	ী	১	।
8	ঈ	ঘ	ন	স	ৈ		২	ৣ
9	ঊ	ঙ		হ			৩	০
A	ঋ	চ	প				৪	৅
B	ঌ	ছ	ফ		ৌ		৫	
C	঍	জ	ব	়	ৌ	ড়	৬	
D		ঝ	ভ		়	ড়	৭	
E		ঞ	ম	া			৮	
F	ঐ	ট	ষ	ি		ষ	৯	

## Based on ISCII 1988

## Various signs

0980	
0981	◌̇ BENGALI SIGN CANDRABINDU
0982	◌̣ BENGALI SIGN ANUSVARA
0983	◌̈ BENGALI SIGN VISARGA
0984	

## Independent vowels

0985	অ BENGALI LETTER A
0986	আ BENGALI LETTER AA
0987	ই BENGALI LETTER I
0988	ঈ BENGALI LETTER II
0989	উ BENGALI LETTER U
098A	ঊ BENGALI LETTER UU
098B	ঋ BENGALI LETTER VOCALIC R
098C	ৠ BENGALI LETTER VOCALIC L
098D	
098E	
098F	এ BENGALI LETTER E
0990	ঐ BENGALI LETTER AI
0991	
0992	
0993	ও BENGALI LETTER O
0994	ঔ BENGALI LETTER AU

## Consonants

0995	ক BENGALI LETTER KA
0996	খ BENGALI LETTER KHA
0997	গ BENGALI LETTER GA
0998	ঘ BENGALI LETTER GHA
0999	ঙ BENGALI LETTER NGA
099A	চ BENGALI LETTER CA
099B	ছ BENGALI LETTER CHA
099C	জ BENGALI LETTER JA
099D	ঝ BENGALI LETTER JHA
099E	ঞ BENGALI LETTER NYA
099F	ট BENGALI LETTER TTA
09A0	ঠ BENGALI LETTER TTHA
09A1	ড BENGALI LETTER DDA
09A2	ঢ BENGALI LETTER DDHA
09A3	ণ BENGALI LETTER NNA
09A4	ত BENGALI LETTER TA
09A5	থ BENGALI LETTER THA
09A6	দ BENGALI LETTER DA
09A7	ধ BENGALI LETTER DHA

09A8	ন BENGALI LETTER NA
09A9	
09AA	প BENGALI LETTER PA
09AB	ফ BENGALI LETTER PHA
09AC	ব BENGALI LETTER BA = Bengali va, wa
09AD	ভ BENGALI LETTER BHA
09AE	ম BENGALI LETTER MA
09AF	য BENGALI LETTER YA
09B0	র BENGALI LETTER RA
09B1	
09B2	ল BENGALI LETTER LA
09B3	
09B4	
09B5	
09B6	শ BENGALI LETTER SHA
09B7	ষ BENGALI LETTER SSA
09B8	স BENGALI LETTER SA
09B9	হ BENGALI LETTER HA

## Various signs

09BA	
09BB	
09BC	◌̇ BENGALI SIGN NUKTA for extending the alphabet to new letters
09BD	

## Dependent vowel signs

09BE	◌̆ BENGALI VOWEL SIGN AA
09BF	◌̇◌̆ BENGALI VOWEL SIGN I stands to the left of the consonant
09C0	◌̆◌̆ BENGALI VOWEL SIGN II
09C1	◌̇◌̆◌̆ BENGALI VOWEL SIGN U
09C2	◌̇◌̆◌̆◌̆ BENGALI VOWEL SIGN UU
09C3	◌̇◌̆◌̆◌̆◌̆ BENGALI VOWEL SIGN VOCALIC R
09C4	◌̇◌̆◌̆◌̆◌̆◌̆ BENGALI VOWEL SIGN VOCALIC RR
09C5	
09C6	
09C7	◌̇◌̆◌̆ BENGALI VOWEL SIGN E stands to the left of the consonant
09C8	◌̇◌̆◌̆◌̆ BENGALI VOWEL SIGN AI stands to the left of the consonant
09C9	
09CA	
09CB	◌̆◌̆◌̆ BENGALI VOWEL SIGN O pieces on both sides of the consonant
09CC	◌̆◌̆◌̆◌̆ BENGALI VOWEL SIGN AU pieces on both sides of the consonant

<b>Various signs</b>		09F1	ঝ	BENGALI LETTER VA WITH LOWER DIAGONAL <i>Assamese</i>
09CD	◌্ BENGALI SIGN VIRAMA = <i>halant</i>	09F2	৳	BENGALI RUPEE MARK
09CE		09F3	ট	BENGALI RUPEE SIGN
09CF		09F4	৳	BENGALI CURRENCY NUMERATOR ONE
09D0		09F5	৳	BENGALI CURRENCY NUMERATOR TWO
09D1		09F6	৳	BENGALI CURRENCY NUMERATOR THREE
09D2		09F7		BENGALI CURRENCY NUMERATOR FOUR
09D3		09F8	৳	BENGALI CURRENCY NUMERATOR ONE LESS THAN THE DENOMINATOR
09D4		09F9	৳	BENGALI CURRENCY DENOMINATOR SIXTEEN
09D5		09FA	৳	BENGALI ISSHAR
09D6				
09D7	৳ BENGALI AU LENGTH MARK			
<b>Additional consonants</b>				
09D8				
09D9				
09DA				
09DB				
09DC	৳ BENGALI LETTER RRA			
09DD	৳ BENGALI LETTER RHA			
09DE				
09DF	৳ BENGALI LETTER YYA			
<b>Generic additions</b>				
09E0	৳ BENGALI LETTER VOCALIC RR			
09E1	৳ BENGALI LETTER VOCALIC LL			
09E2	৳ BENGALI VOWEL SIGN VOCALIC L			
09E3	৳ BENGALI VOWEL SIGN VOCALIC LL			
09E4				
09E5				
09E6	০ BENGALI DIGIT ZERO			
09E7	১ BENGALI DIGIT ONE			
09E8	২ BENGALI DIGIT TWO			
09E9	৩ BENGALI DIGIT THREE			
09EA	৪ BENGALI DIGIT FOUR			
09EB	৫ BENGALI DIGIT FIVE			
09EC	৬ BENGALI DIGIT SIX			
09ED	৭ BENGALI DIGIT SEVEN			
09EE	৮ BENGALI DIGIT EIGHT			
09EF	৯ BENGALI DIGIT NINE			
<b>Bengali-specific additions</b>				
09F0	৳ BENGALI LETTER RA WITH MIDDLE DIAGONAL <i>Assamese</i>			



	0A0	0A1	0A2	0A3	0A4	0A5	0A6	0A7
0		ਐ	ਠ	ਰ	ੀ			ੰ
1			ਢ		ਿ			ੱ
2	ੰ		ਢ	ਲ	ਿ			ੲ
3		ਓ	ਲ	ਲ				ੳ
4		ਐ	ਭ					ੴ
5	ਅ	ਕ	ਬ	ਵ				
6	ਆ	ਖ	ਦ	ਸ਼			੦	
7	ਇ	ਗ	ਧ		ੇ		੧	
8	ਈ	ਘ	ਨ	ਸ	ੈ		੨	
9	ਉ	ਙ		ਹ		ਖ਼	੩	
A	ੴ	ਚ	ਪ			ਗ਼	੪	
B		ਛ	ਫ		ੌ	ਜ਼	੫	
C		ਜ	ਬ	਼	ੌ	ਝ	੬	
D		ਝ	ਭ				੭	
E		ਞ	ਮ	ਾ		ਠ	੮	
F	ਏ	ਟ	ਯ	ਿ			੯	



## Based on ISCII 1988

## Various signs

0A00	
0A01	
0A02	◌̣ GURMUKHI SIGN BINDI
0A03	
0A04	

## Independent vowels

0A05	ਅ	GURMUKHI LETTER A
0A06	ਆ	GURMUKHI LETTER AA
0A07	ਇ	GURMUKHI LETTER I
0A08	ਈ	GURMUKHI LETTER II
0A09	ਉ	GURMUKHI LETTER U
0A0A	ਊ	GURMUKHI LETTER UU
0A0B		
0A0C		
0A0D		
0A0E		
0A0F	ਏ	GURMUKHI LETTER EE
0A10	ਐ	GURMUKHI LETTER AI
0A11		
0A12		
0A13	ੳ	GURMUKHI LETTER OO
0A14	ਔ	GURMUKHI LETTER AU

## Consonants

0A15	ਕ	GURMUKHI LETTER KA
0A16	ਖ	GURMUKHI LETTER KHA
0A17	ਗ	GURMUKHI LETTER GA
0A18	ਘ	GURMUKHI LETTER GHA
0A19	ਙ	GURMUKHI LETTER NGA
0A1A	ਚ	GURMUKHI LETTER CA
0A1B	ਛ	GURMUKHI LETTER CHA
0A1C	ਜ	GURMUKHI LETTER JA
0A1D	ਝ	GURMUKHI LETTER JHA
0A1E	ਞ	GURMUKHI LETTER NYA
0A1F	ਟ	GURMUKHI LETTER TTA
0A20	ਠ	GURMUKHI LETTER TTHA
0A21	ਡ	GURMUKHI LETTER DDA
0A22	ਢ	GURMUKHI LETTER DDHA
0A23	ਣ	GURMUKHI LETTER NNA
0A24	ਤ	GURMUKHI LETTER TA
0A25	ਥ	GURMUKHI LETTER THA
0A26	ਦ	GURMUKHI LETTER DA
0A27	ਧ	GURMUKHI LETTER DHA

0A28	ਨ	GURMUKHI LETTER NA
0A29		
0A2A	ਪ	GURMUKHI LETTER PA
0A2B	ਫ	GURMUKHI LETTER PHA
0A2C	ਬ	GURMUKHI LETTER BA
0A2D	ਭ	GURMUKHI LETTER BHA
0A2E	ਮ	GURMUKHI LETTER MA
0A2F	ਯ	GURMUKHI LETTER YA
0A30	ਰ	GURMUKHI LETTER RA
0A31		
0A32	ਲ	GURMUKHI LETTER LA
0A33	ਲ਼	GURMUKHI LETTER LLA
0A34		
0A35	ਵ	GURMUKHI LETTER VA
0A36	ਸ਼	GURMUKHI LETTER SHA
0A37		
0A38	ਸ਼	GURMUKHI LETTER SA
0A39	ਹ	GURMUKHI LETTER HA

## Various signs

0A3A		
0A3B		
0A3C	◌̣	GURMUKHI SIGN NUKTA <i>for extending the alphabet to new letters</i>
0A3D		GURMUKHI SIGN AVAGRAHA

## Dependent vowel signs

0A3E	ੳ	GURMUKHI VOWEL SIGN AA
0A3F	ਿ	GURMUKHI VOWEL SIGN I <i>stands to the left of the consonant</i>
0A40	ੀ	GURMUKHI VOWEL SIGN II
0A41	ੁ	GURMUKHI VOWEL SIGN U
0A42	ੂ	GURMUKHI VOWEL SIGN UU
0A43		
0A44		
0A45		
0A46		
0A47	ੇ	GURMUKHI VOWEL SIGN EE
0A48	ੈ	GURMUKHI VOWEL SIGN AI
0A49		
0A4A		
0A4B	ੋ	GURMUKHI VOWEL SIGN OO
0A4C	ੳ	GURMUKHI VOWEL SIGN AU
0A4D		
0A4E		
0A4F		

0A50  
0A51  
0A52  
0A53  
0A54  
0A55  
0A56  
0A57

**Additional consonants**

0A58  
0A59 **ਖ਼** GURMUKHI LETTER KHHA  
0A5A **ਗ਼** GURMUKHI LETTER GHHA  
0A5B **ਜ਼** GURMUKHI LETTER ZA  
0A5C **ੜ** GURMUKHI LETTER RRA  
0A5D  
0A5E **ਫ਼** GURMUKHI LETTER FA  
0A5F

**Generic additions**

0A60  
0A61  
0A62  
0A63  
0A64  
0A65  
0A66 **੦** GURMUKHI DIGIT ZERO  
0A67 **੧** GURMUKHI DIGIT ONE  
0A68 **੨** GURMUKHI DIGIT TWO  
0A69 **੩** GURMUKHI DIGIT THREE  
0A6A **੪** GURMUKHI DIGIT FOUR  
0A6B **੫** GURMUKHI DIGIT FIVE  
0A6C **੬** GURMUKHI DIGIT SIX  
0A6D **੭** GURMUKHI DIGIT SEVEN  
0A6E **੮** GURMUKHI DIGIT EIGHT  
0A6F **੯** GURMUKHI DIGIT NINE

**Gurmukhi-specific additions**

0A70 **ੴ** GURMUKHI TIPPI  
*nasalization*  
0A71 **ੴ** GURMUKHI ADDAK  
*doubles following consonant*  
0A72 **ੲ** GURMUKHI IRI  
*base for vowels*  
0A73 **ੳ** GURMUKHI URA  
*base for vowels*

0A74 **ੴ** GURMUKHI EK ONKAR  
*God is One*



	0A8	0A9	0AA	0AB	0AC	0AD	0AE	0AF
0		ઐ	ઠ	ર	ી	ૐ	ઋ	
1	ँ		ડ		ુ			
2	ં		ઢ	લ	ૂ			
3	:	ઓ	ણ	ળ	ૃ			
4		ઔ	ત		ૄ			
5	અ	ક	થ	વ	ँ			
6	આ	ખ	દ	શ			૦	
7	ઈ	ગ	ધ	ષ	ે		૧	
8	ઈ	ઘ	ન	સ	ૈ		૨	
9	ઉ	ડ		હ			૩	
A	ઊ	ચ	પ				૪	
B	ઋ	છ	જ		ો		૫	
C		જ	ખ	ં	ી		૬	
D		ઝ	ભ	૨	િ		૭	
E		ઞ	મ	।			૮	
F	એ	ટ	ય	િ			૯	





0ACE

Gujarati

0AFF

0ACE				
0ACF				
0AD0	૩૦	GUJARATI OM		
0AD1				
0AD2				
0AD3				
0AD4				
0AD5				
0AD6				
0AD7				
0AD8				
0AD9				
0ADA				
0ADB				
0ADC				
0ADD				
0ADE				
0ADF				

Generic additions

0AE0	૩૧	GUJARATI LETTER VOCALIC RR		
0AE1				
0AE2				
0AE3				
0AE4				
0AE5				
0AE6	૦	GUJARATI DIGIT ZERO		
0AE7	૧	GUJARATI DIGIT ONE		
0AE8	૨	GUJARATI DIGIT TWO		
0AE9	૩	GUJARATI DIGIT THREE		
0AEA	૪	GUJARATI DIGIT FOUR		
0AEB	૫	GUJARATI DIGIT FIVE		
0AEC	૬	GUJARATI DIGIT SIX		
0AED	૭	GUJARATI DIGIT SEVEN		
0AEE	૮	GUJARATI DIGIT EIGHT		
0AEF	૯	GUJARATI DIGIT NINE		



	OB0	OB1	OB2	OB3	OB4	OB5	OB6	OB7
0		୩	୦	୧	୧		୧	✓
1	ୠ		ୡ		ୢ		ୣ	
2	୤		୥	୦	ୢ			
3	୦	ୠ	ୡ	ୢ	ୣ			
4		୩	ୣ					
5	ୡ	ୢ	ୣ					
6	ୢ	ୣ	୦	ୡ			୦	
7	ୣ	୦	ୡ	ୢ	ୠ	୧	୧	
8	ୣ	ୢ	୦	ୣ	ୠ		୧	
9	ୣ	ୡ		ୢ			ୡ	
A	ୣ	ୣ	ୡ				ୣ	
B	ୣ	ୢ	ୡ		ୠ		ୣ	
C	ୣ	ୢ	ୣ	ୠ	ୠ	ୡ	ୣ	
D		ୣ	ୣ	ୣ	ୠ	ୡ	ୣ	
E		ୣ	ୡ	ୠ			ୠ	
F	ୣ	ୣ	ୣ	ୠ		ୣ	ୣ	

## Based on ISCII 1988

## Various signs

OB00		
OB01	◌̣	ORIYA SIGN CANDRABINDU
OB02	◌̣̣	ORIYA SIGN ANUSVARA
OB03	◌̣̣̣	ORIYA SIGN VISARGA
OB04		

## Independent vowels

OB05	ଅ	ORIYA LETTER A
OB06	ଆ	ORIYA LETTER AA
OB07	ଇ	ORIYA LETTER I
OB08	ଈ	ORIYA LETTER II
OB09	ଉ	ORIYA LETTER U
OB0A	ଊ	ORIYA LETTER UU
OB0B	ଋ	ORIYA LETTER VOCALIC R
OB0C	ୠ	ORIYA LETTER VOCALIC L
OB0D		
OB0E		
OB0F	ଏ	ORIYA LETTER E
OB10	ଐ	ORIYA LETTER AI
OB11		
OB12		
OB13	ଓ	ORIYA LETTER O
OB14	ଔ	ORIYA LETTER AU

## Consonants

OB15	କ	ORIYA LETTER KA
OB16	ଖ	ORIYA LETTER KHA
OB17	ଗ	ORIYA LETTER GA
OB18	ଘ	ORIYA LETTER GHA
OB19	ଙ	ORIYA LETTER NGA
OB1A	ଚ	ORIYA LETTER CA
OB1B	ଛ	ORIYA LETTER CHA
OB1C	ଜ	ORIYA LETTER JA
OB1D	ଝ	ORIYA LETTER JHA
OB1E	ଞ	ORIYA LETTER NYA
OB1F	ଟ	ORIYA LETTER TTA
OB20	ଠ	ORIYA LETTER TTHA
OB21	ଡ	ORIYA LETTER DDA
OB22	ଢ	ORIYA LETTER DDHA
OB23	ଣ	ORIYA LETTER NNA
OB24	ତ	ORIYA LETTER TA
OB25	ଥ	ORIYA LETTER THA
OB26	ଦ	ORIYA LETTER DA
OB27	ଧ	ORIYA LETTER DHA

OB28	ନ	ORIYA LETTER NA
OB29		
OB2A	ପ	ORIYA LETTER PA
OB2B	ଫ	ORIYA LETTER PHA
OB2C	ବ	ORIYA LETTER BA = Oriya va, wa
OB2D	ଭ	ORIYA LETTER BHA
OB2E	ମ	ORIYA LETTER MA
OB2F	ଯ	ORIYA LETTER YA
OB30	ର	ORIYA LETTER RA
OB31		
OB32	ଲ	ORIYA LETTER LA
OB33	ୠ	ORIYA LETTER LLA
OB34		
OB35		× (oriya letter ba → 0B2C)
OB36	ଶ	ORIYA LETTER SHA
OB37	ଷ	ORIYA LETTER SSA
OB38	ସ	ORIYA LETTER SA
OB39	ହ	ORIYA LETTER HA

## Various signs

OB3A		
OB3B		
OB3C	◌̣̣̣̣	ORIYA SIGN NUKTA for extending the alphabet to new letters
OB3D	୪	ORIYA SIGN AVAGRAHA

## Dependent vowel signs

OB3E		ORIYA VOWEL SIGN AA
OB3F	◌̣̣̣̣̣	ORIYA VOWEL SIGN I
OB40	1	ORIYA VOWEL SIGN II
OB41	◌̣̣̣̣̣̣	ORIYA VOWEL SIGN U
OB42	◌̣̣̣̣̣̣̣	ORIYA VOWEL SIGN UU
OB43	◌̣̣̣̣̣̣̣̣	ORIYA VOWEL SIGN VOCALIC R
OB44		
OB45		
OB46		
OB47	◌̣̣̣̣̣̣̣̣̣	ORIYA VOWEL SIGN E stands to the left of the consonant
OB48	◌̣̣̣̣̣̣̣̣̣̣	ORIYA VOWEL SIGN AI pieces left of and above the consonant
OB49		
OB4A		
OB4B	◌̣̣̣̣̣̣̣̣̣̣̣	ORIYA VOWEL SIGN O pieces on both sides of the consonant
OB4C	◌̣̣̣̣̣̣̣̣̣̣̣̣	ORIYA VOWEL SIGN AU pieces on both sides of the consonant

**Various signs**

0B4D ◌ ORIYA SIGN VIRAMA

0B4E

0B4F

0B50

0B51

0B52

0B53

0B54

0B55

0B56

0B57 ǀ ORIYA AU LENGTH MARK

**Additional consonants**

0B58

0B59

0B5A

0B5B

0B5C ◌ ORIYA LETTER RRA

0B5D ◌ ORIYA LETTER RHA

0B5E

0B5F ◌ ORIYA LETTER YYA

**Generic additions**

0B60 ◌ ORIYA LETTER VOCALIC RR

0B61 ◌ ORIYA LETTER VOCALIC LL

0B62

0B63

0B64

0B65

0B66 ◌ ORIYA DIGIT ZERO

0B67 ୧ ORIYA DIGIT ONE

0B68 ୨ ORIYA DIGIT TWO

0B69 ୩ ORIYA DIGIT THREE

0B6A ୪ ORIYA DIGIT FOUR

0B6B ୫ ORIYA DIGIT FIVE

0B6C ୬ ORIYA DIGIT SIX

0B6D ୭ ORIYA DIGIT SEVEN

0B6E ୮ ORIYA DIGIT EIGHT

0B6F ୯ ORIYA DIGIT NINE

**Oriya-specific addition**

0B70 ✓ ORIYA ISSHAR





	OB8	OB9	OBA	OBB	OBC	OBD	OBE	OBF
0		ஐ		ர	ீ			ய
1				ற	ு			ள
2	ஃ	ஓ		ல	ூ			கூ
3	ஃ	ஓ	ண	ள				
4		ஔ	த	ழ				
5	அ	க		வ				
6	ஆ				ெ			
7	இ			ஷ	ே	ள	க	
8	ஈ		ந	ஸ	ை		உ	
9	உ	ங	ன	ஹ			ந	
A	ஊ	ச	ப		ொ		சு	
B					ோ		ரு	
C		ஐ			ௌ		கூ	
D					ஂ		எ	
E	எ	ஞ	ம	ா			அ	
F	ஏ	ட	ய	ர்			கூ	



OBCD

Tamil

OBFF

		<b>Various signs</b>	
OBCD	◌̣	TAMIL SIGN VIRAMA	
OBCF			
OBD0			
OBD1			
OBD2			
OBD3			
OBD4			
OBD5			
OBD6			
OBD7	◌̣	TAMIL AU LENGTH MARK	
OBD8			
OBD9			
OBDA			
OBDB			
OBDC			
OBDG			
OBDH			
OBDI			
OBDJ			
OBDK			
OBDL			
OBDM			
OBDN			
OBDP			
OBDQ			
OBDR			
OBDU			
OBDV			
OBDW			
OBDX			
OBDY			
OBDZ			

**Generic additions**

OBE0			
OBE1			
OBE2			
OBE3			
OBE4			
OBE5			
OBE6		× (digit zero → 0030)	
OBE7	ௐ	TAMIL DIGIT ONE	
OBE8	௑	TAMIL DIGIT TWO	
OBE9	௒	TAMIL DIGIT THREE	
OBEA	௓	TAMIL DIGIT FOUR	
OBEB	௔	TAMIL DIGIT FIVE	
OBEC	௕	TAMIL DIGIT SIX	
OBED	௖	TAMIL DIGIT SEVEN	
OBEF	ௗ	TAMIL DIGIT EIGHT	
OBEF	௘	TAMIL DIGIT NINE	

**Tamil-specific additions**

OBFO	௙	TAMIL NUMBER TEN	
OBF1	௚	TAMIL NUMBER ONE HUNDRED	
OBF2	௛	TAMIL NUMBER ONE THOUSAND	





	0C0	0C1	0C2	0C3	0C4	0C5	0C6	0C7
0		ఱ	ఱ	ఱ	ఱ		ఱ	
1	ఱ		ఱ	ఱ	ఱ		ఱ	
2	ఱ	ఱ	ఱ	ఱ	ఱ			
3	ఱ	ఱ	ఱ	ఱ	ఱ			
4		ఱ	ఱ		ఱ			
5	ఱ	ఱ	ఱ	ఱ		ఱ		
6	ఱ	ఱ	ఱ	ఱ	ఱ	ఱ	ఱ	
7	ఱ	ఱ	ఱ	ఱ	ఱ		ఱ	
8	ఱ	ఱ	ఱ	ఱ	ఱ		ఱ	
9	ఱ	ఱ		ఱ			ఱ	
A	ఱ	ఱ	ఱ		ఱ		ఱ	
B	ఱ	ఱ	ఱ		ఱ		ఱ	
C	ఱ	ఱ	ఱ		ఱ		ఱ	
D		ఱ	ఱ		ఱ		ఱ	
E	ఱ	ఱ	ఱ	ఱ			ఱ	
F	ఱ	ఱ	ఱ	ఱ			ఱ	

**Based on ISCII 1988****Various signs**

0C00		
0C01	ఁ	TELUGU SIGN CANDRABINDU
0C02	ం	TELUGU SIGN ANUSVARA
0C03	ః	TELUGU SIGN VISARGA
0C04		

**Independent vowels**

0C05	అ	TELUGU LETTER A
0C06	ఆ	TELUGU LETTER AA
0C07	ఇ	TELUGU LETTER I
0C08	ఈ	TELUGU LETTER II
0C09	ఉ	TELUGU LETTER U
0C0A	ఊ	TELUGU LETTER UU
0C0B	ఋ	TELUGU LETTER VOCALIC R
0C0C	ౠ	TELUGU LETTER VOCALIC L
0C0D		
0C0E	ఎ	TELUGU LETTER E
0C0F	ఏ	TELUGU LETTER EE
0C10	ఐ	TELUGU LETTER AI
0C11		
0C12	ఒ	TELUGU LETTER O
0C13	ఓ	TELUGU LETTER OO
0C14	ఔ	TELUGU LETTER AU

**Consonants**

0C15	క	TELUGU LETTER KA
0C16	ఖ	TELUGU LETTER KHA
0C17	గ	TELUGU LETTER GA
0C18	ఘ	TELUGU LETTER GHA
0C19	ఙ	TELUGU LETTER NGA
0C1A	చ	TELUGU LETTER CA
0C1B	ఛ	TELUGU LETTER CHA
0C1C	జ	TELUGU LETTER JA
0C1D	ఝ	TELUGU LETTER JHA
0C1E	ఞ	TELUGU LETTER NYA
0C1F	ట	TELUGU LETTER TTA
0C20	ఠ	TELUGU LETTER TTHA
0C21	డ	TELUGU LETTER DDA
0C22	ఢ	TELUGU LETTER DDHA
0C23	ణ	TELUGU LETTER NNA
0C24	త	TELUGU LETTER TA
0C25	థ	TELUGU LETTER THA
0C26	ద	TELUGU LETTER DA
0C27	ధ	TELUGU LETTER DHA

0C28	న	TELUGU LETTER NA
0C29		
0C2A	ప	TELUGU LETTER PA
0C2B	ఫ	TELUGU LETTER PHA
0C2C	బ	TELUGU LETTER BA
0C2D	భ	TELUGU LETTER BHA
0C2E	మ	TELUGU LETTER MA
0C2F	య	TELUGU LETTER YA
0C30	ర	TELUGU LETTER RA
0C31	ఱ	TELUGU LETTER RRA
0C32	ల	TELUGU LETTER LA
0C33	ళ	TELUGU LETTER LLA
0C34		
0C35	వ	TELUGU LETTER VA
0C36	శ	TELUGU LETTER SHA
0C37	ష	TELUGU LETTER SSA
0C38	స	TELUGU LETTER SA
0C39	హ	TELUGU LETTER HA
0C3A		
0C3B		
0C3C		
0C3D		

**Dependent vowel signs**

0C3E	ా	TELUGU VOWEL SIGN AA
0C3F	ి	TELUGU VOWEL SIGN I
0C40	ీ	TELUGU VOWEL SIGN II
0C41	ు	TELUGU VOWEL SIGN U
0C42	ూ	TELUGU VOWEL SIGN UU
0C43	ృ	TELUGU VOWEL SIGN VOCALIC R
0C44	ౠ	TELUGU VOWEL SIGN VOCALIC RR
0C45		
0C46	ె	TELUGU VOWEL SIGN E
0C47	ే	TELUGU VOWEL SIGN EE
0C48	ై	TELUGU VOWEL SIGN AI
0C49		
0C4A	ొ	TELUGU VOWEL SIGN O
0C4B	ో	TELUGU VOWEL SIGN OO
0C4C	ౌ	TELUGU VOWEL SIGN AU

**Various signs**

0C4D	్ం	TELUGU SIGN VIRAMA
0C4E		
0C4F		
0C50		
0C51		

- 0C52
- 0C53
- 0C54
- 0C55 ○ TELUGU LENGTH MARK
- 0C56 ○ TELUGU AI LENGTH MARK
- 0C57
- 0C58
- 0C59
- 0C5A
- 0C5B
- 0C5C
- 0C5D
- 0C5E
- 0C5F

**Generic additions**

- 0C60 యౌ TELUGU LETTER VOCALIC RR
- 0C61 యౌ TELUGU LETTER VOCALIC LL
- 0C62
- 0C63
- 0C64
- 0C65
- 0C66 ౦ TELUGU DIGIT ZERO
- 0C67 ౧ TELUGU DIGIT ONE
- 0C68 ౨ TELUGU DIGIT TWO
- 0C69 ౩ TELUGU DIGIT THREE
- 0C6A ౪ TELUGU DIGIT FOUR
- 0C6B ౫ TELUGU DIGIT FIVE
- 0C6C ౬ TELUGU DIGIT SIX
- 0C6D ౭ TELUGU DIGIT SEVEN
- 0C6E ౮ TELUGU DIGIT EIGHT
- 0C6F ౯ TELUGU DIGIT NINE



	0C8	0C9	0CA	0CB	0CC	0CD	0CE	0CF
0		ಛ	ಠ	ಡ	ಱ್ಱ		ಋ	
1			ಱ	ಞ	ಠ		ಠ್ಠ	
2	ಠ	ಠ	ಱ	ಠ	ಠ			
3	ಠ	ಠ	ಠ	ಠ	ಠ			
4		ಠ	ಠ		ಠ			
5	ಠ	ಠ	ಠ	ಠ		ಠ		
6	ಠ	ಠ	ಠ	ಠ	ಠ	ಠ	ಠ	
7	ಠ	ಠ	ಠ	ಠ	ಠ		ಠ	
8	ಠ	ಠ	ಠ	ಠ	ಠ		ಠ	
9	ಠ	ಠ		ಠ			ಠ	
A	ಠ	ಠ	ಠ		ಠ		ಠ	
B	ಠ	ಠ	ಠ		ಠ		ಠ	
C	ಠ	ಠ	ಠ		ಠ		ಠ	
D		ಠ	ಠ		ಠ		ಠ	
E	ಠ	ಠ	ಠ	ಠ		ಠ	ಠ	
F	ಠ	ಠ	ಠ	ಠ			ಠ	





0CD2

Kannada

0CFF

0CD2  
 0CD3  
 0CD4  
 0CD5 ಀ KANNADA LENGTH MARK  
 0CD6 ಁ KANNADA AI LENGTH MARK  
 0CD7

**Additional consonants**

0CD8  
 0CD9  
 0CDA  
 0CDB  
 0CDC  
 0CDD  
 0CDE ಃ KANNADA LETTER FA  
 0CDF

**Generic additions**

0CE0 ಋ KANNADA LETTER VOCALIC RR  
 0CE1 ೠ KANNADA LETTER VOCALIC LL  
 0CE2  
 0CE3  
 0CE4  
 0CE5  
 0CE6 ೦ KANNADA DIGIT ZERO  
 0CE7 ೧ KANNADA DIGIT ONE  
 0CE8 ೨ KANNADA DIGIT TWO  
 0CE9 ೩ KANNADA DIGIT THREE  
 0CEA ೪ KANNADA DIGIT FOUR  
 0CEB ೫ KANNADA DIGIT FIVE  
 0CEC ೬ KANNADA DIGIT SIX  
 0CED ೭ KANNADA DIGIT SEVEN  
 0CEE ೮ KANNADA DIGIT EIGHT  
 0CEF ೯ KANNADA DIGIT NINE



	0D0	0D1	0D2	0D3	0D4	0D5	0D6	0D7
0		ഐ	ഓ	ര	റ		ഋ	
1			ഡ	ഠ	ഡ		ഢ	
2	ഘ	ങ	ഢ	ഡ	ണ			
3	ഃ	ഔ	ണ	ള	ല്ല			
4		ഔ	ത	ഴ				
5	അ	ക	ഥ	വ				
6	ആ	ഖ	ഭ	ശ	ഌ		഍	
7	ഇ	ഗ	ധ	ഷ	ഏ	എ	ഏ	
8	ഈ	ഘ	ന	സ	ഐ		഑	
9	ഉ	ങ		ഹ			ഒ	
A	ഊ	ച	പ		ഐ		ഓ	
B	ഋ	ഘ	ഫ		ഐ		ഓ	
C	ൺ	ജ	ബ		ഔ		ഏ	
D		ഡ	ഭ		ഏ		ഏ	
E	ഏ	ണ	മ	ഠ			ഏ	
F	ഏ	ട	യ	റ			ഏ	

## Based on ISCII 1988

## Various signs

0D00	
0D01	
0D02	◦ MALAYALAM SIGN ANUSVARA
0D03	‡ MALAYALAM SIGN VISARGA
0D04	

## Independent vowels

0D05	അ	MALAYALAM LETTER A
0D06	ആ	MALAYALAM LETTER AA
0D07	ഇ	MALAYALAM LETTER I
0D08	ഈ	MALAYALAM LETTER II
0D09	ഉ	MALAYALAM LETTER U
0D0A	ഊ	MALAYALAM LETTER UU
0D0B	ഋ	MALAYALAM LETTER VOCALIC R
0D0C	ൠ	MALAYALAM LETTER VOCALIC L
0D0D		
0D0E	എ	MALAYALAM LETTER E
0D0F	ഈ	MALAYALAM LETTER EE
0D10	ഐ	MALAYALAM LETTER AI
0D11		
0D12	ഒ	MALAYALAM LETTER O
0D13	ഓ	MALAYALAM LETTER OO
0D14	ഔ	MALAYALAM LETTER AU

## Consonants

0D15	ക	MALAYALAM LETTER KA
0D16	ഖ	MALAYALAM LETTER KHA
0D17	ഗ	MALAYALAM LETTER GA
0D18	ഘ	MALAYALAM LETTER GHA
0D19	ങ	MALAYALAM LETTER NGA
0D1A	ച	MALAYALAM LETTER CA
0D1B	ഛ	MALAYALAM LETTER CHA
0D1C	ജ	MALAYALAM LETTER JA
0D1D	ഝ	MALAYALAM LETTER JHA
0D1E	ഞ	MALAYALAM LETTER NYA
0D1F	ട	MALAYALAM LETTER TTA
0D20	ഠ	MALAYALAM LETTER TTHA
0D21	ഡ	MALAYALAM LETTER DDA
0D22	ഢ	MALAYALAM LETTER DDHA
0D23	ണ	MALAYALAM LETTER NNA
0D24	ത	MALAYALAM LETTER TA
0D25	ഥ	MALAYALAM LETTER THA
0D26	ദ	MALAYALAM LETTER DA
0D27	ധ	MALAYALAM LETTER DHA

0D28	ന	MALAYALAM LETTER NA
0D29		
0D2A	പ	MALAYALAM LETTER PA
0D2B	ഫ	MALAYALAM LETTER PHA
0D2C	ബ	MALAYALAM LETTER BA
0D2D	ഭ	MALAYALAM LETTER BHA
0D2E	മ	MALAYALAM LETTER MA
0D2F	യ	MALAYALAM LETTER YA
0D30	ര	MALAYALAM LETTER RA
0D31	റ	MALAYALAM LETTER RRA
0D32	ല	MALAYALAM LETTER LA
0D33	ള	MALAYALAM LETTER LLA
0D34	ഴ	MALAYALAM LETTER LLLA
0D35	വ	MALAYALAM LETTER VA
0D36	ശ	MALAYALAM LETTER SHA
0D37	ഷ	MALAYALAM LETTER SSA
0D38	സ	MALAYALAM LETTER SA
0D39	ഹ	MALAYALAM LETTER HA

0D3A	
0D3B	
0D3C	
0D3D	

## Dependent vowel signs

0D3E	ഓ	MALAYALAM VOWEL SIGN AA
0D3F	ഐ	MALAYALAM VOWEL SIGN I
0D40	ഈ	MALAYALAM VOWEL SIGN II
0D41	ഊ	MALAYALAM VOWEL SIGN U
0D42	ഊ	MALAYALAM VOWEL SIGN UU
0D43	ഋ	MALAYALAM VOWEL SIGN VOCALIC R
0D44		
0D45		
0D46	എ	MALAYALAM VOWEL SIGN E <i>stands to the left of the consonant</i>
0D47	ഈ	MALAYALAM VOWEL SIGN EE <i>stands to the left of the consonant</i>
0D48	ഐ	MALAYALAM VOWEL SIGN AI <i>stands to the left of the consonant</i>
0D49		
0D4A	ഓ	MALAYALAM VOWEL SIGN O <i>pieces on both sides of the consonant</i>
0D4B	ഔ	MALAYALAM VOWEL SIGN OO <i>pieces on both sides of the consonant</i>
0D4C	ഔ	MALAYALAM VOWEL SIGN AU <i>pieces on both sides of the consonant</i>

**Various signs**

0D4D ◌̣ MALAYALAM SIGN VIRAMA  
= vowel half-u

0D4E

0D4F

0D50

0D51

0D52

0D53

0D54

0D55

0D56

0D57 ◌̣ MALAYALAM AU LENGTH MARK

0D58

0D59

0D5A

0D5B

0D5C

0D5D

0D5E

0D5F

**Generic additions**

0D60 ് MALAYALAM LETTER VOCALIC RR

0D61 ് MALAYALAM LETTER VOCALIC LL

0D62

0D63

0D64

0D65

0D66 ൦ MALAYALAM DIGIT ZERO

0D67 ൧ MALAYALAM DIGIT ONE

0D68 ൨ MALAYALAM DIGIT TWO

0D69 ൩ MALAYALAM DIGIT THREE

0D6A ൪ MALAYALAM DIGIT FOUR

0D6B ൫ MALAYALAM DIGIT FIVE

0D6C ൬ MALAYALAM DIGIT SIX

0D6D ൭ MALAYALAM DIGIT SEVEN

0D6E ൮ MALAYALAM DIGIT EIGHT

0D6F ൯ MALAYALAM DIGIT NINE





	0E0	0E1	0E2	0E3	0E4	0E5	0E6	0E7
0		จ	ภ	ะ	เ	อ		เ
1	ก	ท	ม	ั	แ	๑		แ
2	ข	ฌ	บ	า	โ	๒		โ
3	ช	ฌ	ร	ำ	ใ	๓		ใ
4	ค	ด	ฤ	ิ	ไ	๔		ไ
5	ศ	ต	ล	ี	า	๕		
6	ฆ	ถ	ภ	ื	ำ	๖		
7	ง	ท	ว	็	็	๗		
8	จ	ถ	ค	ุ	ุ	๘		
9	ช	น	ษ	ุ	ุ	๙		
A	ช	บ	ล	ุ	ุ	๙		
B	ช	ป	ห		ุ	๙		
C	ฌ	ผ	ฬ		ุ			
D	ญ	ฝ	อ		ุ			
E	ฎ	พ	ฮ		เ			
F	ฎ	ฟ	ช	฿	©			

## Based on TIS 620-2529

## Consonants

0E00		
0E01	ก	THAI LETTER KO KAI
0E02	ข	THAI LETTER KHO KHAI
0E03	ค	THAI LETTER KHO KHUAT
0E04	ค	THAI LETTER KHO KHWAI
0E05	ค	THAI LETTER KHO KHON
0E06	ฆ	THAI LETTER KHO RAKHANG
0E07	ง	THAI LETTER NGO NGU
0E08	จ	THAI LETTER CHO CHAN
0E09	ฉ	THAI LETTER CHO CHING
0E0A	ช	THAI LETTER CHO CHANG
0E0B	ซ	THAI LETTER SO SO
0E0C	ฌ	THAI LETTER CHO CHOE
0E0D	ญ	THAI LETTER YO YING
0E0E	ด	THAI LETTER DO CHADA
0E0F	ต	THAI LETTER TO PATAK
0E10	ถ	THAI LETTER THO THAN
0E11	ท	THAI LETTER THO NANGMONTHO
0E12	ฒ	THAI LETTER THO PHUTHAO
0E13	ณ	THAI LETTER NO NEN
0E14	ด	THAI LETTER DO DEK
0E15	ต	THAI LETTER TO TAO
0E16	ถ	THAI LETTER THO THUNG
0E17	ท	THAI LETTER THO THAHAN
0E18	ธ	THAI LETTER THO THONG
0E19	น	THAI LETTER NO NU
0E1A	บ	THAI LETTER BO BAIMAI
0E1B	ป	THAI LETTER PO PLA
0E1C	ฝ	THAI LETTER PHO PHUNG
0E1D	ฝ	THAI LETTER FO FA
0E1E	พ	THAI LETTER PHO PHAN
0E1F	ฟ	THAI LETTER FO FAN
0E20	ภ	THAI LETTER PHO SAMPHAO
0E21	ม	THAI LETTER MO MA
0E22	ย	THAI LETTER YO YAK
0E23	ร	THAI LETTER RO RUA
0E24	ฤ	THAI LETTER RU <i>independent vowel letter used to write Pali</i>
0E25	ล	THAI LETTER LO LING
0E26	ฌ	THAI LETTER LU <i>independent vowel letter used to write Pali</i>
0E27	ว	THAI LETTER WO WAEN
0E28	ศ	THAI LETTER SO SALA

0E29	ษ	THAI LETTER SO RUSI
0E2A	ส	THAI LETTER SO SUA
0E2B	ห	THAI LETTER HO HIP
0E2C	ฬ	THAI LETTER LO CHULA
0E2D	อ	THAI LETTER O ANG
0E2E	ฮ	THAI LETTER HO NOK HUK

## Sign

0E2F	๑	THAI PAI YAN NOI <i>ellipsis, abbreviation</i>
------	---	---

## Vowels

0E30	๑	THAI VOWEL SIGN SARA A
0E31	๑	THAI VOWEL SIGN MAI HAN-AKAT
0E32	๑	THAI VOWEL SIGN SARA AA
0E33	๑	THAI VOWEL SIGN SARA AM
0E34	๑	THAI VOWEL SIGN SARA I
0E35	๑	THAI VOWEL SIGN SARA II
0E36	๑	THAI VOWEL SIGN SARA UE
0E37	๑	THAI VOWEL SIGN SARA UEE
0E38	๑	THAI VOWEL SIGN SARA U
0E39	๑	THAI VOWEL SIGN SARA UU
0E3A	๑	THAI VOWEL SIGN PHINTHU <i>Pali virama</i>
0E3B		
0E3C		
0E3D		
0E3E		

## Currency symbol

0E3F	฿	THAI BAHT SIGN
------	---	----------------

## Vowels

0E40	๑	THAI VOWEL SIGN SARA E
0E41	๑	THAI VOWEL SIGN SARA AE
0E42	๑	THAI VOWEL SIGN SARA O
0E43	๑	THAI VOWEL SIGN SARA MAI MUAN
0E44	๑	THAI VOWEL SIGN SARA MAI MALAI

## Signs

0E45	๑	THAI LAK KHANG YAO
0E46	๑	THAI MAI YAMOK <i>repetition</i>

## Vowel

0E47	๑	THAI VOWEL SIGN MAI TAI KHU
------	---	-----------------------------

- 0E48  THAI TONE MAI EK
- 0E49  THAI TONE MAI THO
- 0E4A  THAI TONE MAI TRI
- 0E4B  THAI TONE MAI CHATTAWA

**Tone marks**

- 0E4C  THAI THANTHAKHAT  
*cancellation mark*
- 0E4D  THAI NIKKHAHIT  
*final nasal*
- 0E4E  THAI YAMAKKAN
- 0E4F  THAI FONGMAN

**Signs**

- 0E50  THAI DIGIT ZERO
- 0E51  THAI DIGIT ONE
- 0E52  THAI DIGIT TWO
- 0E53  THAI DIGIT THREE
- 0E54  THAI DIGIT FOUR
- 0E55  THAI DIGIT FIVE
- 0E56  THAI DIGIT SIX
- 0E57  THAI DIGIT SEVEN
- 0E58  THAI DIGIT EIGHT
- 0E59  THAI DIGIT NINE

**Digits**






- 0E5A  THAI ANGKHANKHU
- 0E5B  THAI KHOMUT

**Signs**

- 0E5C
- 0E5D
- 0E5E
- 0E5F
- 0E60
- 0E61
- 0E62
- 0E63
- 0E64
- 0E65
- 0E66
- 0E67
- 0E68
- 0E69
- 0E6A
- 0E6B
- 0E6C

- 0E6D
- 0E6E
- 0E6F

**Phonetic order clones of left side vowel signs**

- 0E70  THAI PHONETIC ORDER VOWEL SIGN SARA E
- 0E71  THAI PHONETIC ORDER VOWEL SIGN SARA AE
- 0E72  THAI PHONETIC ORDER VOWEL SIGN SARA O
- 0E73  THAI PHONETIC ORDER VOWEL SIGN SARA MAI MUAN
- 0E74  THAI PHONETIC ORDER VOWEL SIGN SARA MAI MALAI



	OE8	OE9	OE A	OE B	OE C	OE D	OE E	OE F
0				໌	ເ	ອ		ເ໌
1	ກ		ມ	ັ	ແ	ອ		ແ໌
2	ຂ		ຢ	າ	ໄ	ູ		ໄ໌
3			ຮ	າ̊	າ	ຸ		າ໌
4	ຄ	ດ		າ̋	ໄ	ຸ		ໄ໌
5		ຕ	ລ	າ̌		ຸ		
6		ຖ		າ̍	ງ	ຸ		
7	ງ	ທ	ວ	າ̎		ງ		
8	ຈ			າ̏	່	ຸ		
9		ນ		າ̐	້	ວ		
A	ຊ	ບ	ສ		ັ			
B		ປ	ຫ	ົ	່			
C		ຜ		ູ	ົ	ໝ		
D	ຍ	ຝ	ອ	ູ̋	ົ	ໝ		
E		ພ	ຮ					
F		ຟ	ຯ					



Based on TIS 620-2529

Consonants

0E80		
0E81	ກ	LAO LETTER KO
0E82	ຂ	LAO LETTER KHO SUNG
0E83		
0E84	ຄ	LAO LETTER KHO TAM
0E85		
0E86		
0E87	ງ	LAO LETTER NGO
0E88	ຈ	LAO LETTER CO
0E89		
0E8A	ຊ	LAO LETTER SO TAM
0E8B		
0E8C		
0E8D	ຍ	LAO LETTER NYO
0E8E		
0E8F		
0E90		
0E91		
0E92		
0E93		
0E94	ດ	LAO LETTER DO
0E95	ຕ	LAO LETTER TO
0E96	ຖ	LAO LETTER THO SUNG
0E97	ທ	LAO LETTER THO TAM
0E98		
0E99	ນ	LAO LETTER NO
0E9A	ບ	LAO LETTER BO
0E9B	ປ	LAO LETTER PO
0E9C	ຜ	LAO LETTER PHO SUNG
0E9D	ຝ	LAO LETTER FO TAM
0E9E	ພ	LAO LETTER PHO TAM
0E9F	ຟ	LAO LETTER FO SUNG
0EA0		
0EA1	ມ	LAO LETTER MO
0EA2	ຢ	LAO LETTER YO
0EA3	ສ	LAO LETTER LO LING
0EA4		
0EA5	ລ	LAO LETTER LO LOOT
0EA6		
0EA7	ວ	LAO LETTER WO
0EA8		
0EA9		
0EAA	ຮ	LAO LETTER SO SUNG
0EAB	ຫ	LAO LETTER HO SUNG

0EAC

0EAD ອ LAO LETTER O

0EAE ສ LAO LETTER HO TAM

Sign

0EAF ຯ LAO ELLIPSIS

Vowels

0EB0 ັ LAO VOWEL SIGN A

0EB1 ື LAO VOWEL SIGN MAI KAN  
vowel shortener

0EB2 ື̄ LAO VOWEL SIGN AA

0EB3 ື̆ LAO VOWEL SIGN AM

0EB4 ື̈ LAO VOWEL SIGN I

0EB5 ື̉ LAO VOWEL SIGN II

0EB6 ື̋ LAO VOWEL SIGN Y

0EB7 ື̌ LAO VOWEL SIGN YY

0EB8 ື̍ LAO VOWEL SIGN U

0EB9 ື̎ LAO VOWEL SIGN UU

0EBA

Vowel

0EBB ື̏ LAO VOWEL SIGN MAI KON

Signs

0EBC ື̐ LAO SEMIVOWEL SIGN LO

0EBD ື̑ LAO SEMIVOWEL SIGN NYO

0EBE

0EBF

Vowels

0EC0 ື̒ LAO VOWEL SIGN E

0EC1 ື̓ LAO VOWEL SIGN EI

0EC2 ື̔ LAO VOWEL SIGN O

0EC3 ື̕ LAO VOWEL SIGN AY

0EC4 ື̖ LAO VOWEL SIGN AI

0EC5

Sign

0EC6 ື̗ LAO KO LA  
repetition



0EC7

Tone marks



0EC8 ື̘ LAO TONE MAI EK

0EC9 ື̙ LAO TONE MAI THO

0ECA






0ECA  LAO TONE MAI TI  
 0ECB  LAO TONE MAI CATAWA

Signs

0ECC  LAO CANCELLATION MARK  
 0ECD  LAO NIGGAHITA  
*final nasal*



0ECE  
 0ECF

Digits

0ED0  LAO DIGIT ZERO  
 0ED1  LAO DIGIT ONE  
 0ED2  LAO DIGIT TWO  
 0ED3  LAO DIGIT THREE  
 0ED4  LAO DIGIT FOUR  
 0ED5  LAO DIGIT FIVE  
 0ED6  LAO DIGIT SIX  
 0ED7  LAO DIGIT SEVEN  
 0ED8  LAO DIGIT EIGHT  
 0ED9  LAO DIGIT NINE

0EDA  
 0EDB

Digraphs






0EDC  LAO HO NO  
 0EDD  LAO HO MO

0EDE  
 0EDF  
 0EE0  
 0EE1  
 0EE2  
 0EE3  
 0EE4  
 0EE5  
 0EE6  
 0EE7  
 0EE8  
 0EE9  
 0EEA  
 0EEB  
 0EEC  
 0EED  
 0EEE  
 0EEF

Lao

0EFF

















Phonetic order clones of left side vowel signs

0EF0  LAO PHONETIC ORDER VOWEL SIGN E  
 0EF1  LAO PHONETIC ORDER VOWEL SIGN EI  
 0EF2  LAO PHONETIC ORDER VOWEL SIGN O  
 0EF3  LAO PHONETIC ORDER VOWEL SIGN AY  
 0EF4  LAO PHONETIC ORDER VOWEL SIGN AI



	100	101	102	103	104	105
0						
1						
2						
3						
4						
5						
6						
7						
8						
9						
A						
B						
C						
D						
E						
F						

	<b>Consonants</b>
1000	TIBETAN LETTER KA
1001	TIBETAN LETTER KHA
1002	TIBETAN LETTER GA
1003	TIBETAN LETTER NGA
1004	TIBETAN LETTER CA
1005	TIBETAN LETTER CHA
1006	TIBETAN LETTER JA
1007	TIBETAN LETTER NYA
1008	TIBETAN LETTER REVERSED TA = <i>Sanskrit retroflex ta</i>
1009	TIBETAN LETTER REVERSED THA = <i>Sanskrit retroflex tha</i>
100A	TIBETAN LETTER REVERSED DA = <i>Sanskrit retroflex da</i>
100B	TIBETAN LETTER REVERSED NA = <i>Sanskrit retroflex na</i>
100C	TIBETAN LETTER TA
100D	TIBETAN LETTER THA
100E	TIBETAN LETTER DA
100F	TIBETAN LETTER NA
1010	TIBETAN LETTER PA
1011	TIBETAN LETTER PHA
1012	TIBETAN LETTER BA
1013	TIBETAN LETTER MA
1014	TIBETAN LETTER TSA
1015	TIBETAN LETTER TSHA
1016	TIBETAN LETTER DZA
1017	TIBETAN LETTER WA
1018	TIBETAN LETTER ZHA
1019	TIBETAN LETTER ZA
101A	TIBETAN LETTER AA
101B	TIBETAN LETTER YA
101C	TIBETAN LETTER RA
101D	TIBETAN LETTER LA
101E	TIBETAN LETTER SHA
101F	TIBETAN LETTER REVERSED SHA = <i>Sanskrit retroflex sha</i>
1020	TIBETAN LETTER SA
1021	TIBETAN LETTER HA
1022	TIBETAN LETTER A <i>base for dependent vowels</i>
1023	
1024	
1025	

1026		<b>Dependent vowel signs</b> TIBETAN VOWEL SIGN I = <i>gigu</i>
1027		TIBETAN VOWEL SIGN SHORT I = <i>reversed gigu</i>
1028		TIBETAN VOWEL SIGN U = <i>zhabskyu (shapkyu)</i>
1029		TIBETAN VOWEL SIGN E = <i>hgrenbu (drengpo)</i>
102A		TIBETAN VOWEL SIGN O = <i>snaro (naro)</i>
		<b>Various</b>
102B		TIBETAN CHUCHENYIGE
102C		TIBETAN VISARGA = <i>mambcad (namchey)</i>
102D		
		<b>Dependent vowel sign</b>
102E		TIBETAN ANUSVARA = <i>ngaro</i>
		<b>Punctuation</b>
102F		TIBETAN RIGHT BRACE × ( <i>tibetan left brace</i> → 103C)
1030		TIBETAN UNDER RING = <i>rtags (tak)</i> <i>emphasis</i>
1031		TIBETAN DITTO = <i>duyik</i>
1032		
1033		TIBETAN SINGLE ORNAMENT = <i>nyizla</i> <i>honorific; marks beginning of texts</i>
1034		TIBETAN SHAD = <i>shey</i> <i>phrase delimiter</i> × ( <i>devanagari danda</i> → 0964)
1035		TIBETAN TSEG = <i>tsek</i> <i>syllable delimiter</i>
		<b>Dependent vowel signs</b>
1036		TIBETAN CANDRABINDU = <i>kladkor (lehkör)</i>
1037		TIBETAN CANDRABINDU WITH ORNAMENT = <i>datsekthikley</i>

**Punctuation**

- 1038 ༄ TIBETAN COMMA  
= *tertsek*  
also used as TIBETAN VISARGA
- 1039 ་ TIBETAN RINCHANPHUNGSHAD  
= *rinchenpungshey*
- 103A ༌ TIBETAN RGYANSHAD  
= *druishey*
- 103B ། TIBETAN HONORIFIC UNDER RING
- 103C ༎ TIBETAN LEFT BRACE  
× (*tibetan right brace* → 102F)

**Dependent vowel signs**

- 103D ༏ TIBETAN VOWEL SIGN AI
- 103E ༐ TIBETAN VOWEL SIGN AU
- 103F

**Digits**

- 1040 ༐ TIBETAN DIGIT ZERO
- 1041 ༑ TIBETAN DIGIT ONE
- 1042 ༒ TIBETAN DIGIT TWO
- 1043 ༓ TIBETAN DIGIT THREE
- 1044 ༔ TIBETAN DIGIT FOUR
- 1045 ༕ TIBETAN DIGIT FIVE
- 1046 ༖ TIBETAN DIGIT SIX
- 1047 ༗ TIBETAN DIGIT SEVEN
- 1048 ༘ TIBETAN DIGIT EIGHT
- 1049 ༙ TIBETAN DIGIT NINE
- 104A ༚ TIBETAN DOUBLE SHAD  
× (*devanagari double danda* → 0965)

**Various**

- 104B ༘ TIBETAN VIRAMA  
= *srog med*
- 104C ༜ TIBETAN LENITION MARK





	10A	10B	10C	10D	10E	10F
0	Ⴀ	Ⴁ	Ⴂ	Ⴃ	Ⴄ	Ⴅ
1	Ⴆ	Ⴇ	Ⴈ	Ⴉ	Ⴊ	Ⴋ
2	Ⴌ	Ⴍ	Ⴎ	Ⴏ	Ⴐ	Ⴑ
3	Ⴒ	Ⴓ	Ⴔ	Ⴕ	Ⴖ	Ⴗ
4	Ⴘ	Ⴙ	Ⴚ	Ⴛ	Ⴜ	Ⴝ
5	Ⴞ	Ⴟ	Ⴡ	Ⴢ	Ⴣ	Ⴤ
6	Ⴥ	჆		Ⴧ	჈	჉
7	჊	჋		჌	Ⴭ	
8	჎	჏		ბ	გ	
9	დ	ე		ვ	ზ	
A	თ	ი		კ	ლ	
B	მ	ნ		ო	პ	∴
C	ჟ	რ		ს	ტ	
D	უ	ფ		ქ	ღ	
E	ყ	შ		ჩ	ც	
F	ძ	წ		ჭ	ხ	

		Archaic uppercase alphabet
10A0	Ⴚ	GEORGIAN CAPITAL LETTER AN
10A1	Ⴛ	GEORGIAN CAPITAL LETTER BAN
10A2	Ⴜ	GEORGIAN CAPITAL LETTER GAN
10A3	Ⴝ	GEORGIAN CAPITAL LETTER DON
10A4	Ⴞ	GEORGIAN CAPITAL LETTER EN
10A5	Ⴟ	GEORGIAN CAPITAL LETTER VIN
10A6	Ⴀ	GEORGIAN CAPITAL LETTER ZEN
10A7	Ⴁ	GEORGIAN CAPITAL LETTER TAN
10A8	Ⴂ	GEORGIAN CAPITAL LETTER IN
10A9	Ⴃ	GEORGIAN CAPITAL LETTER KAN
10AA	Ⴄ	GEORGIAN CAPITAL LETTER LAS
10AB	Ⴅ	GEORGIAN CAPITAL LETTER MAN
10AC	Ⴆ	GEORGIAN CAPITAL LETTER NAR
10AD	Ⴇ	GEORGIAN CAPITAL LETTER ON
10AE	Ⴈ	GEORGIAN CAPITAL LETTER PAR
10AF	Ⴉ	GEORGIAN CAPITAL LETTER ZHAR
10B0	Ⴊ	GEORGIAN CAPITAL LETTER RAE
10B1	Ⴋ	GEORGIAN CAPITAL LETTER SAN
10B2	Ⴌ	GEORGIAN CAPITAL LETTER TAR
10B3	Ⴍ	GEORGIAN CAPITAL LETTER UN
10B4	Ⴎ	GEORGIAN CAPITAL LETTER PHAR
10B5	Ⴏ	GEORGIAN CAPITAL LETTER KHAR
10B6	Ⴐ	GEORGIAN CAPITAL LETTER GHAN
10B7	Ⴑ	GEORGIAN CAPITAL LETTER QAR
10B8	Ⴒ	GEORGIAN CAPITAL LETTER SHIN
10B9	Ⴓ	GEORGIAN CAPITAL LETTER CHIN
10BA	Ⴔ	GEORGIAN CAPITAL LETTER CAN
10BB	Ⴕ	GEORGIAN CAPITAL LETTER JIL
10BC	Ⴖ	GEORGIAN CAPITAL LETTER CIL
10BD	Ⴗ	GEORGIAN CAPITAL LETTER CHAR
10BE	Ⴘ	GEORGIAN CAPITAL LETTER XAN
10BF	Ⴙ	GEORGIAN CAPITAL LETTER JHAN
10C0	Ⴚ	GEORGIAN CAPITAL LETTER HAE
10C1	Ⴛ	GEORGIAN CAPITAL LETTER HE
10C2	Ⴜ	GEORGIAN CAPITAL LETTER HIE
10C3	Ⴝ	GEORGIAN CAPITAL LETTER WE
10C4	Ⴞ	GEORGIAN CAPITAL LETTER HAR
10C5	Ⴟ	GEORGIAN CAPITAL LETTER HOE
10C6		
10C7		
10C8		
10C9		
10CA		
10CB		
10CC		

10CD  
10CE  
10CF

**Modern alphabet**  
= Archaic lowercase alphabet

10D0	Ⴚ	GEORGIAN SMALL LETTER AN
10D1	Ⴛ	GEORGIAN SMALL LETTER BAN
10D2	Ⴜ	GEORGIAN SMALL LETTER GAN
10D3	Ⴝ	GEORGIAN SMALL LETTER DON
10D4	Ⴞ	GEORGIAN SMALL LETTER EN
10D5	Ⴟ	GEORGIAN SMALL LETTER VIN
10D6	Ⴀ	GEORGIAN SMALL LETTER ZEN
10D7	Ⴁ	GEORGIAN SMALL LETTER TAN
10D8	Ⴂ	GEORGIAN SMALL LETTER IN
10D9	Ⴃ	GEORGIAN SMALL LETTER KAN
10DA	Ⴄ	GEORGIAN SMALL LETTER LAS
10DB	Ⴅ	GEORGIAN SMALL LETTER MAN
10DC	Ⴆ	GEORGIAN SMALL LETTER NAR
10DD	Ⴇ	GEORGIAN SMALL LETTER ON
10DE	Ⴈ	GEORGIAN SMALL LETTER PAR
10DF	Ⴉ	GEORGIAN SMALL LETTER ZHAR
10E0	Ⴊ	GEORGIAN SMALL LETTER RAE
10E1	Ⴋ	GEORGIAN SMALL LETTER SAN
10E2	Ⴌ	GEORGIAN SMALL LETTER TAR
10E3	Ⴍ	GEORGIAN SMALL LETTER UN
10E4	Ⴎ	GEORGIAN SMALL LETTER PHAR
10E5	Ⴏ	GEORGIAN SMALL LETTER KHAR
10E6	Ⴐ	GEORGIAN SMALL LETTER GHAN
10E7	Ⴑ	GEORGIAN SMALL LETTER QAR
10E8	Ⴒ	GEORGIAN SMALL LETTER SHIN
10E9	Ⴓ	GEORGIAN SMALL LETTER CHIN
10EA	Ⴔ	GEORGIAN SMALL LETTER CAN
10EB	Ⴕ	GEORGIAN SMALL LETTER JIL
10EC	Ⴖ	GEORGIAN SMALL LETTER CIL
10ED	Ⴗ	GEORGIAN SMALL LETTER CHAR
10EE	Ⴘ	GEORGIAN SMALL LETTER XAN
10EF	Ⴙ	GEORGIAN SMALL LETTER JHAN
10F0	Ⴚ	GEORGIAN SMALL LETTER HAE

**Archaic letters**

10F1	Ⴚ	GEORGIAN SMALL LETTER HE
10F2	Ⴛ	GEORGIAN SMALL LETTER HIE
10F3	Ⴜ	GEORGIAN SMALL LETTER WE
10F4	Ⴝ	GEORGIAN SMALL LETTER HAR
10F5	Ⴞ	GEORGIAN SMALL LETTER HOE

10F6	ჲ	GEORGIAN SMALL LETTER FI	10F6
10F7			10F7
10F8			10F8
10F9			10F9
10FA			10FA
		<b>Punctuation</b>	
10FB	⋯	GEORGIAN PARAGRAPH SEPARATOR	10FB
			10FC
			10FD
			10FE
			10FF
			10F0
			10F1
			10F2
			10F3
			10F4
			10F5
			10F6
			10F7
			10F8
			10F9
			10FA
			10FB
			10FC
			10FD
			10FE
			10FF
			10F0
			10F1
			10F2
			10F3
			10F4
			10F5
			10F6
			10F7
			10F8
			10F9
			10FA
			10FB
			10FC
			10FD
			10FE
			10FF

		Arabic uppercase alifbata	
		GEORGIAN CAPITAL LETTER IAN	10F6
		GEORGIAN CAPITAL LETTER DAN	10F7
		GEORGIAN CAPITAL LETTER GAN	10F8
		GEORGIAN CAPITAL LETTER DON	10F9
		GEORGIAN CAPITAL LETTER EN	10FA
		GEORGIAN CAPITAL LETTER VIN	10FB
		GEORGIAN CAPITAL LETTER TAN	10FC
		GEORGIAN CAPITAL LETTER SHIN	10FD
		GEORGIAN CAPITAL LETTER LHA	10FE
		GEORGIAN CAPITAL LETTER VA	10FF
		GEORGIAN CAPITAL LETTER PA	10F0
		GEORGIAN CAPITAL LETTER KA	10F1
		GEORGIAN CAPITAL LETTER XA	10F2
		GEORGIAN CAPITAL LETTER QA	10F3
		GEORGIAN CAPITAL LETTER WA	10F4
		GEORGIAN CAPITAL LETTER ZA	10F5
		GEORGIAN CAPITAL LETTER RA	10F6
		GEORGIAN CAPITAL LETTER SA	10F7
		GEORGIAN CAPITAL LETTER TA	10F8
		GEORGIAN CAPITAL LETTER DA	10F9
		GEORGIAN CAPITAL LETTER PA	10FA
		GEORGIAN CAPITAL LETTER KA	10FB
		GEORGIAN CAPITAL LETTER XA	10FC
		GEORGIAN CAPITAL LETTER QA	10FD
		GEORGIAN CAPITAL LETTER WA	10FE
		GEORGIAN CAPITAL LETTER ZA	10FF
		GEORGIAN CAPITAL LETTER RA	10F0
		GEORGIAN CAPITAL LETTER SA	10F1
		GEORGIAN CAPITAL LETTER TA	10F2
		GEORGIAN CAPITAL LETTER DA	10F3
		GEORGIAN CAPITAL LETTER PA	10F4
		GEORGIAN CAPITAL LETTER KA	10F5
		GEORGIAN CAPITAL LETTER XA	10F6
		GEORGIAN CAPITAL LETTER QA	10F7
		GEORGIAN CAPITAL LETTER WA	10F8
		GEORGIAN CAPITAL LETTER ZA	10F9
		GEORGIAN CAPITAL LETTER RA	10FA
		GEORGIAN CAPITAL LETTER SA	10FB
		GEORGIAN CAPITAL LETTER TA	10FC
		GEORGIAN CAPITAL LETTER DA	10FD
		GEORGIAN CAPITAL LETTER PA	10FE
		GEORGIAN CAPITAL LETTER KA	10FF
		GEORGIAN CAPITAL LETTER XA	10F0
		GEORGIAN CAPITAL LETTER QA	10F1
		GEORGIAN CAPITAL LETTER WA	10F2
		GEORGIAN CAPITAL LETTER ZA	10F3
		GEORGIAN CAPITAL LETTER RA	10F4
		GEORGIAN CAPITAL LETTER SA	10F5
		GEORGIAN CAPITAL LETTER TA	10F6
		GEORGIAN CAPITAL LETTER DA	10F7
		GEORGIAN CAPITAL LETTER PA	10F8
		GEORGIAN CAPITAL LETTER KA	10F9
		GEORGIAN CAPITAL LETTER XA	10FA
		GEORGIAN CAPITAL LETTER QA	10FB
		GEORGIAN CAPITAL LETTER WA	10FC
		GEORGIAN CAPITAL LETTER ZA	10FD
		GEORGIAN CAPITAL LETTER RA	10FE
		GEORGIAN CAPITAL LETTER SA	10FF



	200	201	202	203	204	205	206
0	En Quad ␣	Hyphen —	†	‰	˘		
1	Em Quad ␣	NB —	‡	‱	˘		
2	En SP ␣	Figure —	•	'	* **		
3	Em SP ␣	—	▶	"	■		
4	3 Em SP ␣	—	•	'''	/		
5	4 Em SP ␣	—	...	'			
6	8 Em SP ␣		...	"			
7	Fig SP ␣	≡	• HyphenPt	'''			
8	PunctSP ␣	‘	Line Sepr	^			
9	Thin SP ␣	’	Para Sepr	<			
A	Hair SP ␣	‚	LRE	>			
B	ZW SP ␣	◌	RLE	⊗			
C	Non- Joiner	“	PDF	!!			
D	Joiner	”	LRO	‡			
E	L-R Mark	”	RLO	—			
F	R-L Mark	“					



2000		General punctuation	2019	'	SINGLE COMMA QUOTATION MARK <i>this is the preferred character for closing single quotation mark</i> × (apostrophe-quote → 0027) × (modifier letter apostrophe → 02BC) × (heavy single comma quotation mark ornament → 275C)
2000	En Quad	EN QUAD			
2001	Em Quad	EM QUAD			
2002	En SP	EN SPACE			
2003	Em SP	EM SPACE			
2004	3 Em SP	THREE-PER-EM SPACE			
2005	En SP	FOUR-PER-EM SPACE	201A	,	LOW SINGLE COMMA QUOTATION MARK <i>usually opening, sometimes closing, in European usage</i>
2006	En SP	SIX-PER-EM SPACE			
2007	Fig SP	FIGURE SPACE	201B	‘	SINGLE REVERSED COMMA QUOTATION MARK <i>glyph variant of 2018</i> × (modifier letter reversed comma → 02BD)
2008	Punct SP	PUNCTUATION SPACE			
2009	Thin SP	THIN SPACE			
200A	Hair SP	HAIR SPACE	201C	“	DOUBLE TURNED COMMA QUOTATION MARK <i>this is the preferred character for opening quotation mark</i> × (quotation mark → 0022) × (heavy double turned comma quotation mark ornament → 275D) × (reversed double prime quotation mark → 301D)
200B	ZW SP	ZERO WIDTH SPACE			
200C	Zero Joiner	ZERO WIDTH NON-JOINER = ZWNJ ("zwinj")			
200D	Joiner	ZERO WIDTH JOINER = ZWJ ("zawj")			
200E	LRM	LEFT-TO-RIGHT MARK = LRM			
200F	RLM	RIGHT-TO-LEFT MARK = RLM	201D	”	DOUBLE COMMA QUOTATION MARK <i>this is the preferred character for closing quotation mark</i> × (quotation mark → 0022) × (double prime → 2033) × (heavy double comma quotation mark ornament → 275E) × (double prime quotation mark → 301E)
2010	Hyphen	HYPHEN × (hyphen-minus → 002D)			
2011	NB	NON-BREAKING HYPHEN × (hyphen-minus → 002D)			
2012	Figure	FIGURE DASH	201E	”	LOW DOUBLE COMMA QUOTATION MARK <i>usually opening, sometimes closing, in European usage</i> × (low double prime quotation mark → 301F)
2013	—	EN DASH			
2014	—	EM DASH × (katakana-hiragana prolonged sound mark → 30FC)	201F	“	DOUBLE REVERSED COMMA QUOTATION MARK <i>glyph variant of 201C</i>
2015	—	QUOTATION DASH = HORIZONTAL BAR <i>long dash introducing quoted text</i>	2020	†	DAGGER
2016		DOUBLE VERTICAL BAR <i>used in pairs to indicate norm of a matrix</i> × (parallel to → 2225)	2021	‡	DOUBLE DAGGER
2017	==	SPACING DOUBLE UNDERSCORE <i>this is a spacing character</i> × (spacing underscore → 005F) × (non-spacing double underscore → 0333)	2022	•	BULLET = BLACK SMALL CIRCLE × (middle dot → 00B7) × (one dot leader → 2024) × (bullet operator → 2219) × (inverse bullet → 25D8) × (white bullet → 25E6)
2018	‘	SINGLE TURNED COMMA QUOTATION MARK <i>this is the preferred character for opening single quotation mark</i> × (apostrophe-quote → 0027) × (modifier letter turned comma → 02BB) × (heavy single turned comma quotation mark ornament → 275B)	2023	▶	TRIANGULAR BULLET × (end of proof → 220E) × (black right pointing small triangle → 25B8)
			2024	·	ONE DOT LEADER × (middle dot → 00B7) × (bullet → 2022) × (bullet operator → 2219)
			2025	··	TWO DOT LEADER

2026	⋯	HORIZONTAL ELLIPSIS = <i>three dot leader</i> × ( <i>vertical ellipsis</i> → 22EE)	2039	◀	LEFT POINTING SINGLE GUILLEMET = ISO SINGLE LEFT-POINTING ANGLE QUOTATION MARK <i>usually opening, sometimes closing</i> × ( <i>less-than sign</i> → 003C) × ( <i>bra</i> → 2329) × ( <i>opening angle bracket</i> → 3008)
2027	•	HYPHENATION POINT	203A	▶	RIGHT POINTING SINGLE GUILLEMET = ISO SINGLE RIGHT-POINTING ANGLE QUOTATION MARK <i>usually closing, sometimes opening</i> × ( <i>greater-than sign</i> → 003E) × ( <i>ket</i> → 232A) × ( <i>closing angle bracket</i> → 3009)
2028	⋮	LINE SEPARATOR <i>may be used to represent this semantic unambiguously</i>	203B	※	REFERENCE MARK = <i>Japanese kome</i> = <i>Urdu paragraph separator</i>
2029	⋮	PARAGRAPH SEPARATOR <i>may be used to represent this semantic unambiguously</i>	203C	!!	DOUBLE EXCLAMATION MARK × ( <i>exclamation mark</i> → 0021)
202A	↪	LEFT-TO-RIGHT EMBEDDING = <i>LRE</i>	203D	‡	INTERROBANG × ( <i>question mark</i> → 003F)
202B	↩	RIGHT-TO-LEFT EMBEDDING = <i>RLE</i>	203E	—	SPACING OVERSCORE = <i>ISO OVERLINE</i>
202C	↻	POP DIRECTIONAL FORMATTING = <i>PDF</i>	203F	~	CHARACTER TIE
202D	↪	LEFT-TO-RIGHT OVERRIDE = <i>LRO</i>	2040	^	CARET INSERTION POINT
202E	↩	RIGHT-TO-LEFT OVERRIDE = <i>RLO</i>	2041	∧	CARET INSERTION POINT <i>proofreader's mark: insert here</i> × ( <i>right semidirect product</i> → 22CC)
202F			2042	**	ASTERISM
2030	‰	PER MILLE SIGN × ( <i>percent sign</i> → 0025)	2043	■	HYPHEN BULLET
2031	‱	PER TEN THOUSAND SIGN × ( <i>percent sign</i> → 0025)	2044	/	FRACTION SLASH <i>for composing arbitrary fractions</i> × ( <i>slash</i> → 002F) × ( <i>division slash</i> → 2215)
2032	'	PRIME = <i>minutes</i> = <i>feet</i> × ( <i>apostrophe-quote</i> → 0027) × ( <i>spacing acute</i> → 00B4) × ( <i>modifier letter prime</i> → 02B9)			
2033	''	DOUBLE PRIME = <i>seconds</i> = <i>inches</i> × ( <i>quotation mark</i> → 0022) × ( <i>modifier letter double prime</i> → 02BA) × ( <i>double comma quotation mark</i> → 201D) × ( <i>ditto mark</i> → 3003) × ( <i>double prime quotation mark</i> → 301E)			
2034	'''	TRIPLE PRIME			
2035	`	REVERSED PRIME × ( <i>spacing grave</i> → 0060)			
2036	''	REVERSED DOUBLE PRIME × ( <i>reversed double prime quotation mark</i> → 301D)			
2037	'''	REVERSED TRIPLE PRIME			
2038	^	CARET			





















	207	208	209
0	0	0	
1		1	
2		2	
3		3	
4	4	4	
5	5	5	
6	6	6	
7	7	7	
8	8	8	
9	9	9	
A	+	+	
B	-	-	
C	=	=	
D	(	(	
E	)	)	
F	n		

		Superscripts and subscripts	
2070	<sup>0</sup>	SUPERSCRIP	DIGIT ZERO
2071		×	( <i>superscript digit one</i> → 00B9)
2072		×	( <i>superscript digit two</i> → 00B2)
2073		×	( <i>superscript digit three</i> → 00B3)
2074	<sup>4</sup>	SUPERSCRIP	DIGIT FOUR
2075	<sup>5</sup>	SUPERSCRIP	DIGIT FIVE
2076	<sup>6</sup>	SUPERSCRIP	DIGIT SIX
2077	<sup>7</sup>	SUPERSCRIP	DIGIT SEVEN
2078	<sup>8</sup>	SUPERSCRIP	DIGIT EIGHT
2079	<sup>9</sup>	SUPERSCRIP	DIGIT NINE
207A	<sup>+</sup>	SUPERSCRIP	PLUS SIGN
207B	<sup>-</sup>	SUPERSCRIP	HYPHEN-MINUS
207C	<sup>=</sup>	SUPERSCRIP	EQUALS SIGN
207D	<sup>(</sup>	SUPERSCRIP	OPENING PARENTHESIS
207E	<sup>)</sup>	SUPERSCRIP	CLOSING PARENTHESIS
207F	<sup>n</sup>	SUPERSCRIP	LATIN SMALL LETTER N
2080	<sub>0</sub>	SUBSCRIPT	DIGIT ZERO
2081	<sub>1</sub>	SUBSCRIPT	DIGIT ONE
2082	<sub>2</sub>	SUBSCRIPT	DIGIT TWO
2083	<sub>3</sub>	SUBSCRIPT	DIGIT THREE
2084	<sub>4</sub>	SUBSCRIPT	DIGIT FOUR
2085	<sub>5</sub>	SUBSCRIPT	DIGIT FIVE
2086	<sub>6</sub>	SUBSCRIPT	DIGIT SIX
2087	<sub>7</sub>	SUBSCRIPT	DIGIT SEVEN
2088	<sub>8</sub>	SUBSCRIPT	DIGIT EIGHT
2089	<sub>9</sub>	SUBSCRIPT	DIGIT NINE
208A	<sub>+</sub>	SUBSCRIPT	PLUS SIGN
208B	<sub>-</sub>	SUBSCRIPT	HYPHEN-MINUS
208C	<sub>=</sub>	SUBSCRIPT	EQUALS SIGN
208D	<sub>(</sub>	SUBSCRIPT	OPENING PARENTHESIS
208E	<sub>)</sub>	SUBSCRIPT	CLOSING PARENTHESIS

	20A	20B	20C
0	₣		
1	⌘		
2	₠		
3	₡		
4	₧		
5	₢		
6	₣		
7	₤		
8	₶		
9	₷		
A	₸		
B			
C			
D			
E			
F			









	20D	20E	20F
0			
1			
2			
3			
4			
5			
6			
7			
8			
9			
A			
B			
C			
D			
E			
F			


**Diacritical marks for symbols**

- 20D0  NON-SPACING LEFT HARPOON ABOVE
- 20D1  NON-SPACING RIGHT HARPOON ABOVE  
*vector*
- 20D2  NON-SPACING LONG VERTICAL BAR  
OVERLAY
- 20D3  NON-SPACING SHORT VERTICAL BAR  
OVERLAY  
*negation*
- 20D4  NON-SPACING ANTICLOCKWISE ARROW  
ABOVE
- 20D5  NON-SPACING CLOCKWISE ARROW ABOVE  
*rotation*
- 20D6  NON-SPACING LEFT ARROW ABOVE
- 20D7  NON-SPACING RIGHT ARROW ABOVE  
*vector*
- 20D8  NON-SPACING RING OVERLAY
- 20D9  NON-SPACING CLOCKWISE RING OVERLAY
- 20DA  NON-SPACING ANTICLOCKWISE RING  
OVERLAY
- 20DB  NON-SPACING THREE DOTS ABOVE  
= *third derivative*
- 20DC  NON-SPACING FOUR DOTS ABOVE  
= *fourth derivative*

**Enclosing diacritics**

- 20DD  ENCLOSING CIRCLE  
= *JIS composition circle*  
× (*white circle* → 25CB)  
× (*ideographic number zero* → 3007)
- 20DE  ENCLOSING SQUARE
- 20DF  ENCLOSING DIAMOND
- 20E0  ENCLOSING CIRCLE SLASH  
*prohibition*

**Additional diacritics**

- 20E1  NON-SPACING LEFT RIGHT ARROW ABOVE  
*tensor*

	210	211	212	213	214
0	<i>a/c</i>	<i>J</i>	SM	<i>E</i>	
1	<i>a/s</i>	<i>S</i>	TEL	<i>F</i>	
2	C	L	TM	F	
3	°C	<i>l</i>	<i>V</i>	<i>m</i>	
4	℄	tb	Z	<i>o</i>	
5	%	N	<i>z</i>	<i>x</i>	
6	<i>c/u</i>	No	Ω	⌌	
7	ε	®	ü	⌋	
8	Ɔ	∞	3	⌋	
9	°F	P	1		
A	<i>J</i>	Q	K		
B	<i>H</i>	R	Å		
C	H	R	B		
D	H	R	€		
E	<i>h</i>	R	e		
F	<i>h h</i>	<i>R</i>	<i>e</i>		

		Letterlike symbols			
2100	$\frac{a}{c}$	ACCOUNT OF	2118	$\wp$	SCRIPT P = <i>per</i> = <i>power set</i> = <i>Weierstrass elliptic function</i> × ( <i>latin capital letter p</i> → 0050)
2101	$\frac{a}{s}$	ADDRESSED TO THE SUBJECT	2119	$\mathbb{P}$	DOUBLE-STRUCK P × ( <i>latin capital letter p</i> → 0050)
2102	$\mathbb{C}$	DOUBLE-STRUCK C = <i>the set of complex numbers</i> × ( <i>latin capital letter c</i> → 0043)	211A	$\mathbb{Q}$	DOUBLE-STRUCK Q = <i>the set of rational numbers</i> × ( <i>latin capital letter q</i> → 0051)
2103	$^{\circ}\text{C}$	DEGREES CENTIGRADE	211B	$\mathcal{R}$	SCRIPT R = <i>Riemann Integral</i> × ( <i>latin capital letter r</i> → 0052)
2104	$\text{C}$	C L SYMBOL = <i>centerline</i> = <i>clone</i>	211C	$\mathfrak{R}$	BLACK-LETTER R = <i>ISO REAL PART SYMBOL</i> × ( <i>latin capital letter r</i> → 0052)
2105	$\%$	CARE OF	211D	$\mathbb{R}$	DOUBLE-STRUCK R = <i>the set of real numbers</i> × ( <i>latin capital letter r</i> → 0052)
2106	$\frac{\%}{u}$	CADA UNA	211E	$\mathcal{R}$	PRESCRIPTION TAKE = <i>recipe</i> = <i>cross ratio</i>
2107	$\epsilon$	EULERS × ( <i>latin capital letter e</i> → 0045) × ( <i>latin capital letter epsilon</i> → 0190)	211F	$\mathfrak{R}$	RESPONSE
2108	$\mathcal{D}$	SCRUPLE	2120	$\text{SM}$	SERVICE MARK
2109	$^{\circ}\text{F}$	DEGREES FAHRENHEIT	2121	TEL	T E L SYMBOL
210A	$\mathcal{I}$	SCRIPT SMALL G = <i>real number symbol</i> × ( <i>latin small letter g</i> → 0067)	2122	$\text{TM}$	TRADEMARK
210B	$\mathcal{H}$	SCRIPT H = <i>Hamiltonian function</i> × ( <i>latin capital letter h</i> → 0048)	2123	$\text{V}$	VERSICLE
210C	$\mathfrak{H}$	BLACK-LETTER H × ( <i>latin capital letter h</i> → 0048)	2124	$\mathbb{Z}$	DOUBLE-STRUCK Z = <i>the set of integers</i> × ( <i>latin capital letter z</i> → 005A)
210D	$\mathbb{H}$	DOUBLE-STRUCK H × ( <i>latin capital letter h</i> → 0048)	2125	$\text{O}$	OUNCE × ( <i>latin small letter yogh</i> → 0292)
210E	$h$	PLANCK CONSTANT × ( <i>latin small letter h</i> → 0068)	2126	$\Omega$	OHM = <i>resistance</i> × ( <i>greek capital letter omega</i> → 03A9)
210F	$\hbar$	PLANCK CONSTANT OVER 2 PI × ( <i>latin small letter h bar</i> → 0127) × ( <i>cyrillic small letter tshe</i> → 045B)	2127	$\text{U}$	MHO = <i>conductance</i> <i>typographically a turned greek capital letter omega</i> × ( <i>latin capital letter upsilon</i> → 01B1) × ( <i>greek capital letter omega</i> → 03A9)
2110	$\mathcal{I}$	SCRIPT I × ( <i>latin capital letter i</i> → 0049)	2128	$\mathfrak{Z}$	BLACK-LETTER Z × ( <i>latin capital letter z</i> → 005A)
2111	$\mathfrak{I}$	BLACK-LETTER I = <i>ISO IMAGINARY PART SYMBOL</i> × ( <i>latin capital letter i</i> → 0049)	2129	$\text{I}$	TURNED GREEK SMALL LETTER IOTA <i>unique element fulfilling a description (logic)</i> × ( <i>greek small letter iota</i> → 03B9)
2112	$\mathcal{L}$	SCRIPT L = <i>Laplace symbol</i> × ( <i>latin capital letter l</i> → 004C)	212A	$\text{K}$	DEGREES KELVIN × ( <i>latin capital letter k</i> → 004B)
2113	$\ell$	SCRIPT SMALL L = <i>liter</i> × ( <i>latin small letter l</i> → 006C)	212B	$\text{A}$	ANGSTROM UNIT × ( <i>latin capital letter a ring</i> → 00C5)
2114	$\text{lb}$	LB BAR SYMBOL = <i>pounds</i>	212C	$\mathcal{B}$	SCRIPT B = <i>Bernoulli function</i> × ( <i>latin capital letter b</i> → 0042)
2115	$\mathbb{N}$	DOUBLE-STRUCK N = <i>natural number</i> × ( <i>latin capital letter n</i> → 004E)			
2116	$\text{No}$	NUMERO			
2117	$\text{©}$	SOUND RECORDING COPYRIGHT = <i>published</i> × ( <i>copyright sign</i> → 00A9)			

- 212D **Ⓒ** BLACK-LETTER C  
× (*latin capital letter c* → 0043)
- 212E **Ⓔ** ESTIMATED SYMBOL  
*used in European packaging*  
× (*latin small letter e* → 0065)
- 212F *e* SCRIPT SMALL E  
= *error*  
× (*latin small letter e* → 0065)
- 2130 **ℰ** SCRIPT E  
= *EMF (Electro-Magnetic Force)*  
× (*latin capital letter e* → 0045)
- 2131 **ℱ** SCRIPT F  
= *Fourier transform*  
× (*latin capital letter f* → 0046)
- 2132 **Ⅎ** TURNED F  
× (*latin capital letter f* → 0046)
- 2133 **ℳ** SCRIPT M  
= *M-matrix (physics)*  
× (*latin capital letter m* → 004D)
- 2134 *o* SCRIPT SMALL O  
= *order; of inferior order to*  
× (*latin small letter o* → 006F)
- 2135 **ℵ** FIRST TRANSFINITE CARDINAL  
= *cardinal of the set of integers*  
× (*hebrew letter alef* → 05D0)
- 2136 **ℶ** SECOND TRANSFINITE CARDINAL  
= *cardinal of the continuum*  
× (*hebrew letter bet* → 05D1)
- 2137 **ℷ** THIRD TRANSFINITE CARDINAL  
= *cardinal of functions of a real variable*  
× (*hebrew letter gimel* → 05D2)
- 2138 **ℸ** FOURTH TRANSFINITE CARDINAL  
× (*hebrew letter dalet* → 05D3)





	215	216	217	218
0		I	i	Ⓒ
1		II	ii	Ⓓ
2		III	iii	Ⓔ
3	$\frac{1}{3}$	IV	iv	
4	$\frac{2}{3}$	V	v	
5	$\frac{1}{5}$	VI	vi	
6	$\frac{2}{5}$	VII	vii	
7	$\frac{3}{5}$	VIII	viii	
8	$\frac{4}{5}$	IX	ix	
9	$\frac{1}{6}$	X	x	
A	$\frac{5}{6}$	XI	xi	
B	$\frac{1}{8}$	XII	xii	
C	$\frac{3}{8}$	L	l	
D	$\frac{5}{8}$	C	c	
E	$\frac{7}{8}$	D	d	
F	$\frac{1}{1}$	M	m	

Number forms		217D	c	SMALL ROMAN NUMERAL ONE HUNDRED
2150	× (fraction one quarter → 00BC)	217E	d	SMALL ROMAN NUMERAL FIVE HUNDRED
2151	× (fraction one half → 00BD)	217F	m	SMALL ROMAN NUMERAL ONE THOUSAND
2152	× (fraction three quarters → 00BE)	2180	Ⓘ	ROMAN NUMERAL ONE THOUSAND C D
2153	$\frac{1}{3}$ FRACTION ONE THIRD	2181	Ⓓ	ROMAN NUMERAL FIVE THOUSAND
2154	$\frac{2}{3}$ FRACTION TWO THIRDS	2182	Ⓣ	ROMAN NUMERAL TEN THOUSAND
2155	$\frac{1}{5}$ FRACTION ONE FIFTH			
2156	$\frac{2}{5}$ FRACTION TWO FIFTHS			
2157	$\frac{3}{5}$ FRACTION THREE FIFTHS			
2158	$\frac{4}{5}$ FRACTION FOUR FIFTHS			
2159	$\frac{1}{6}$ FRACTION ONE SIXTH			
215A	$\frac{5}{6}$ FRACTION FIVE SIXTHS			
215B	$\frac{1}{8}$ FRACTION ONE EIGHTH			
215C	$\frac{3}{8}$ FRACTION THREE EIGHTHS			
215D	$\frac{5}{8}$ FRACTION FIVE EIGHTHS			
215E	$\frac{7}{8}$ FRACTION SEVEN EIGHTHS			
215F	$\frac{1}{1}$ FRACTION NUMERATOR ONE			
2160	I ROMAN NUMERAL ONE			
2161	II ROMAN NUMERAL TWO			
2162	III ROMAN NUMERAL THREE			
2163	IV ROMAN NUMERAL FOUR			
2164	V ROMAN NUMERAL FIVE			
2165	VI ROMAN NUMERAL SIX			
2166	VII ROMAN NUMERAL SEVEN			
2167	VIII ROMAN NUMERAL EIGHT			
2168	IX ROMAN NUMERAL NINE			
2169	X ROMAN NUMERAL TEN			
216A	XI ROMAN NUMERAL ELEVEN			
216B	XII ROMAN NUMERAL TWELVE			
216C	L ROMAN NUMERAL FIFTY			
216D	C ROMAN NUMERAL ONE HUNDRED			
216E	D ROMAN NUMERAL FIVE HUNDRED			
216F	M ROMAN NUMERAL ONE THOUSAND			
2170	i SMALL ROMAN NUMERAL ONE			
2171	ii SMALL ROMAN NUMERAL TWO			
2172	iii SMALL ROMAN NUMERAL THREE			
2173	iv SMALL ROMAN NUMERAL FOUR			
2174	v SMALL ROMAN NUMERAL FIVE			
2175	vi SMALL ROMAN NUMERAL SIX			
2176	vii SMALL ROMAN NUMERAL SEVEN			
2177	viii SMALL ROMAN NUMERAL EIGHT			
2178	ix SMALL ROMAN NUMERAL NINE			
2179	x SMALL ROMAN NUMERAL TEN			
217A	xi SMALL ROMAN NUMERAL ELEVEN			
217B	xii SMALL ROMAN NUMERAL TWELVE			
217C	l SMALL ROMAN NUMERAL FIFTY			

	219	21A	21B	21C	21D	21E	21F
0	←	⇒	↶	→	⇐	←⋯	
1	↑	↓	↷	↘	⇑	↑⋮	
2	→	⇐	↶	↓	⇒	⋯→	
3	↓	↷	↶	↓	⇓	⋮↓	
4	↔	⇄	↶	↔	↔	←	
5	↕	⇅	↶	↕	↕	→	
6	↗	⇄	↷	↔	↗	⇐	
7	↖	⇄	↷	⇐	↖	⇑	
8	↘	⇅	↗	⇑	↘	⇐	
9	↙	⇄	↖	⇑	↙	⇓	
A	↔	⇄	↷	⇅	⇐	⇑	
B	↗	⇐	↷	⇐	⇒		
C	↗	⇐	↶	⇐	⇐		
D	↗	⇐	↶	⇐	⇐		
E	⇐	⇄	↶	⇄	⇄		
F	⇑	⇄	↶	⇄	⇄		

	Arrows	
2190	←	LEFT ARROW
2191	↑	UP ARROW
2192	→	RIGHT ARROW
2193	↓	DOWN ARROW
2194	↔	LEFT RIGHT ARROW
2195	↕	UP DOWN ARROW
2196	↖	UPPER LEFT ARROW
2197	↗	UPPER RIGHT ARROW
2198	↘	LOWER RIGHT ARROW
2199	↙	LOWER LEFT ARROW
219A	↔̄	LEFT ARROW WITH STROKE
219B	→̄	RIGHT ARROW WITH STROKE
219C	↔̂	LEFT WAVE ARROW
219D	↔̆	RIGHT WAVE ARROW
219E	↔↔	LEFT TWO HEADED ARROW
219F	↑↑	UP TWO HEADED ARROW
21A0	⇒⇒	RIGHT TWO HEADED ARROW
21A1	↓↓	DOWN TWO HEADED ARROW = <i>form feed</i>
21A2	←̄	LEFT ARROW WITH TAIL
21A3	→̄	RIGHT ARROW WITH TAIL
21A4	←̅	LEFT ARROW FROM BAR
21A5	↑̅	UP ARROW FROM BAR
21A6	→̅	RIGHT ARROW FROM BAR
21A7	↓̅	DOWN ARROW FROM BAR = <i>depth symbol</i>
21A8	↕̅	UP DOWN ARROW WITH BASE
21A9	↔̅	LEFT ARROW WITH HOOK
21AA	↔̆	RIGHT ARROW WITH HOOK
21AB	↔̅	LEFT ARROW WITH LOOP
21AC	↔̆	RIGHT ARROW WITH LOOP
21AD	↔̂	LEFT RIGHT WAVE ARROW
21AE	↔̄	LEFT RIGHT ARROW WITH STROKE
21AF	↘̂	DOWN ZIGZAG ARROW = <i>electrolysis</i>
21B0	↖̅	UP ARROW WITH TIP LEFT
21B1	↗̅	UP ARROW WITH TIP RIGHT
21B2	↘̅	DOWN ARROW WITH TIP LEFT
21B3	↙̅	DOWN ARROW WITH TIP RIGHT
21B4	↘̅	RIGHT ARROW WITH CORNER DOWN = <i>line feed</i>
21B5	↙̅	DOWN ARROW WITH CORNER LEFT = <i>carriage return</i> = <i>new line</i>
21B6	↶	ANTICLOCKWISE TOP SEMICIRCLE ARROW
21B7	↷	CLOCKWISE TOP SEMICIRCLE ARROW

21B8	↖̅	UPPER LEFT ARROW TO LONG BAR = <i>home</i>
21B9	↖̅	LEFT ARROW TO BAR OVER RIGHT ARROW TO BAR = <i>tab with shift tab</i>
21BA	↶	ANTICLOCKWISE OPEN CIRCLE ARROW
21BB	↷	CLOCKWISE OPEN CIRCLE ARROW
21BC	↖̅	LEFT HARPOON WITH BARB UP
21BD	↘̅	LEFT HARPOON WITH BARB DOWN
21BE	↗̅	UP HARPOON WITH BARB RIGHT
21BF	↖̅	UP HARPOON WITH BARB LEFT
21C0	→̅	RIGHT HARPOON WITH BARB UP
21C1	→̅	RIGHT HARPOON WITH BARB DOWN
21C2	↘̅	DOWN HARPOON WITH BARB RIGHT
21C3	↖̅	DOWN HARPOON WITH BARB LEFT
21C4	↔̅	RIGHT ARROW OVER LEFT ARROW
21C5	↕̅	UP ARROW LEFT OF DOWN ARROW
21C6	↔̅	LEFT ARROW OVER RIGHT ARROW
21C7	↔̅	LEFT PAIRED ARROWS
21C8	↑↑	UP PAIRED ARROWS
21C9	⇒⇒	RIGHT PAIRED ARROWS
21CA	↓↓	DOWN PAIRED ARROWS
21CB	↔̅	LEFT HARPOON OVER RIGHT HARPOON
21CC	↔̅	RIGHT HARPOON OVER LEFT HARPOON
21CD	↔̅	LEFT DOUBLE ARROW WITH STROKE
21CE	↔̅	LEFT RIGHT DOUBLE ARROW WITH STROKE
21CF	↔̅	RIGHT DOUBLE ARROW WITH STROKE
21D0	↔̅	LEFT DOUBLE ARROW
21D1	↑↑	UP DOUBLE ARROW
21D2	⇒⇒	RIGHT DOUBLE ARROW
21D3	↓↓	DOWN DOUBLE ARROW
21D4	↔̅	LEFT RIGHT DOUBLE ARROW
21D5	↕̅	UP DOWN DOUBLE ARROW
21D6	↖̅	UPPER LEFT DOUBLE ARROW
21D7	↗̅	UPPER RIGHT DOUBLE ARROW
21D8	↘̅	LOWER RIGHT DOUBLE ARROW
21D9	↙̅	LOWER LEFT DOUBLE ARROW
21DA	↔̅	LEFT TRIPLE ARROW
21DB	⇒⇒	RIGHT TRIPLE ARROW
21DC	↔̅	LEFT SQUIGGLE ARROW
21DD	↔̅	RIGHT SQUIGGLE ARROW
21DE	↑↑	UP ARROW WITH DOUBLE STROKE = <i>page up</i>
21DF	↓↓	DOWN ARROW WITH DOUBLE STROKE = <i>page down</i>
21E0	←̄	LEFT DASHED ARROW
21E1	↑̄	UP DASHED ARROW

21E2

Arrows

21FF

- 21E2 → RIGHT DASHED ARROW
- 21E3 ↓ DOWN DASHED ARROW
- 21E4 ← LEFT ARROW TO BAR  
= *leftward tab*
- 21E5 → RIGHT ARROW TO BAR  
= *rightward tab*
- 21E6 ⇐ WHITE LEFT ARROW
- 21E7 ↑ WHITE UP ARROW  
= *shift*
- 21E8 ⇨ WHITE RIGHT ARROW
- 21E9 ↓ WHITE DOWN ARROW
- 21EA ⇑ WHITE UP ARROW FROM BAR  
= *caps lock*





	220	221	222	223	224	225	226	227
0	$\forall$	$\amalg$	$\angle$	$\oint$	$\wr$	$\doteq$	$\neq$	$\nexists$
1	$\complement$	$\Sigma$	$\nabla$	$\mathfrak{f}$	$\times$	$\div$	$\equiv$	$\nexists$
2	$\partial$	$-$	$\nabla$	$\mathfrak{f}$	$\approx$	$\doteq$	$\neq$	$\nexists$
3	$\exists$	$\mp$	$ $	$\mathfrak{f}$	$\approx$	$\doteq$	$\equiv$	$\nexists$
4	$\nexists$	$\dagger$	$\dagger$	$\therefore$	$\neq$	$\doteq$	$\leq$	$\neq$
5	$\emptyset$	$/$	$\parallel$	$\therefore$	$\approx$	$\doteq$	$\geq$	$\neq$
6	$\Delta$	$\backslash$	$\nexists$	$:$	$\neq$	$\neq$	$\approx$	$\nexists$
7	$\nabla$	$*$	$\wedge$	$\therefore$	$\neq$	$\doteq$	$\approx$	$\nexists$
8	$\in$	$\circ$	$\vee$	$\dot{-}$	$\approx$	$\doteq$	$\neq$	$\neq$
9	$\notin$	$\bullet$	$\cap$	$\dot{-}$	$\neq$	$\doteq$	$\neq$	$\neq$
A	$\epsilon$	$\surd$	$\cup$	$\doteq$	$\approx$	$\leq$	$\ll$	$\sphericalangle$
B	$\ni$	$\sqrt[3]{}$	$\int$	$\dot{-}$	$\approx$	$\star$	$\gg$	$\sphericalangle$
C	$\nexists$	$\sqrt[4]{}$	$\iint$	$\sim$	$\approx$	$\triangle$	$\emptyset$	$\sphericalangle$
D	$\ni$	$\infty$	$\iiint$	$\sim$	$\times$	$\stackrel{\text{def}}{=}$	$\neq$	$\sphericalangle$
E	$\blacksquare$	$\infty$	$\mathfrak{f}$	$\approx$	$\dagger$	$\equiv$	$\nabla$	$\nexists$
F	$\amalg$	$\perp$	$\mathfrak{f}$	$\approx$	$\dagger$	$\doteq$	$\nabla$	$\approx$

	228	229	22A	22B	22C	22D	22E	22F
0	$\nabla$	$\sqcup$	$\boxtimes$	$\sphericalangle$	$\wedge$	$\cup$	$\nexists$	$\ddots$
1	$\nabla$	$\sqcup$	$\boxdot$	$\sphericalangle$	$\vee$	$\cup$	$\nexists$	$\ddots$
2	$\cup$	$\sqcup$	$\perp$	$\triangleleft$	$\cup$	$\supseteq$	$\nexists$	
3	$\cup$	$\sqcup$	$\perp$	$\triangleleft$	$\cup$	$\supseteq$	$\nexists$	
4	$\nexists$	$\sqcup$	$\perp$	$\triangleleft$	$\diamond$	$\supseteq$	$\sqcup$	
5	$\nexists$	$\oplus$	$\perp$	$\triangleleft$	$\cdot$	$\#$	$\sqcup$	
6	$\cup$	$\ominus$	$\perp$	$\circ$	$\star$	$\nabla$	$\nexists$	
7	$\cup$	$\otimes$	$\perp$	$\circ$	$\ast$	$\nabla$	$\nexists$	
8	$\nexists$	$\oslash$	$\perp$	$\circ$	$\boxtimes$	$\rightrightarrows$	$\nexists$	
9	$\nexists$	$\odot$	$\perp$	$\circ$	$\boxtimes$	$\rightrightarrows$	$\nexists$	
A	$\sqcup$	$\odot$	$\perp$	$\perp$	$\boxtimes$	$\nabla$	$\nexists$	
B	$\sqcup$	$\otimes$	$\perp$	$\nabla$	$\times$	$\nabla$	$\nexists$	
C	$\supseteq$	$\ominus$	$\nexists$	$\nabla$	$\times$	$\nabla$	$\nexists$	
D	$\cup$	$\ominus$	$\nexists$	$\nabla$	$\approx$	$\nabla$	$\nexists$	
E	$\oplus$	$\boxplus$	$\nexists$	$\nabla$	$\vee$	$\nabla$	$\ddots$	
F	$\sqcup$	$\boxplus$	$\nexists$	$\nabla$	$\wedge$	$\nabla$	$\ddots$	

Mathematical operators		2217	*	ASTERISK OPERATOR × (asterisk → 002A)
2200	∀ FOR ALL	2218	◦	RING OPERATOR = composite function = APL jot × (degree sign → 00B0) × (white bullet → 25E6)
2201	∁ COMPLEMENT × (latin letter stretched c → 0297)	2219	•	BULLET OPERATOR × (middle dot → 00B7) × (bullet → 2022) × (one dot leader → 2024)
2202	∂ PARTIAL DIFFERENTIAL	221A	√	SQUARE ROOT = radical sign × (check mark → 2713)
2203	∃ THERE EXISTS	221B	$\sqrt[3]{}$	CUBE ROOT
2204	∄ THERE DOES NOT EXIST	221C	$\sqrt[4]{}$	FOURTH ROOT
2205	∅ EMPTY SET = null set = diameter symbol × (latin capital letter o slash → 00D8)	221D	∝	PROPORTIONAL TO × (greek small letter alpha → 03B1)
2206	Δ INCREMENT = Laplace operator = forward difference × (greek capital letter delta → 0394) × (white up pointing triangle → 25B3)	221E	∞	INFINITY
2207	∇ NABLA = Laplace operator (written with superscript 2) = backward difference = del × (white down pointing triangle → 25BD)	221F	└	RIGHT ANGLE
2208	∈ ELEMENT OF	2220	∠	ANGLE
2209	∉ NOT AN ELEMENT OF	2221	∠	MEASURED ANGLE
220A	∈ SMALL ELEMENT OF	2222	∠	SPHERICAL ANGLE = angle arc
220B	⊃ CONTAINS AS MEMBER = such that	2223		DIVIDES = such that = APL stile × (vertical bar → 007C) × (latin letter pipe → 01C0)
220C	⊄ DOES NOT CONTAIN AS MEMBER	2224	∤	DOES NOT DIVIDE
220D	⊃ SMALL CONTAINS AS MEMBER	2225		PARALLEL TO × (latin letter double pipe → 01C1) × (double vertical bar → 2016)
220E	▀ END OF PROOF = qed × (triangular bullet → 2023)	2226	∦	NOT PARALLEL TO
220F	∏ N-ARY PRODUCT = product sign × (greek capital letter pi → 03A0)	2227	∧	LOGICAL AND = wedge
2210	∏ N-ARY COPRODUCT = coproduct sign	2228	∨	LOGICAL OR = vee
2211	∑ N-ARY SUMMATION = summation sign × (greek capital letter sigma → 03A3)	2229	∩	INTERSECTION = cap
2212	− MINUS SIGN × (hyphen-minus → 002D)	222A	∪	UNION = cup
2213	± MINUS-OR-PLUS SIGN × (plus-or-minus sign → 00B1)	222B	∫	INTEGRAL × (latin small letter esh → 0283)
2214	⋅ DOT PLUS	222C	∬	DOUBLE INTEGRAL
2215	/ DIVISION SLASH generic division operator × (slash → 002F) × (fraction slash → 2044)	222D	∭	TRIPLE INTEGRAL
2216	\ SET MINUS = ISO SHORT BACKWARD DIAGONAL × (backslash → 005C)	222E	∮	CONTOUR INTEGRAL
		222F	∯	SURFACE INTEGRAL
		2230	∭	VOLUME INTEGRAL
		2231	∮	CLOCKWISE INTEGRAL
		2232	∮	CLOCKWISE CONTOUR INTEGRAL
		2233	∮	ANTICLOCKWISE CONTOUR INTEGRAL

2234	∴	THEREFORE	2252	≐	APPROXIMATELY EQUAL TO OR THE IMAGE OF = <i>nearly equals</i>
2235	∵	BECAUSE	2253	≑	IMAGE OF OR APPROXIMATELY EQUAL TO
2236	:	RATIO × ( <i>colon</i> → 003A)	2254	⋮	COLON EQUAL
2237	∴	PROPORTION	2255	⋮	EQUAL COLON
2238	±	DOT MINUS = <i>symmetric difference</i>	2256	⋈	RING IN EQUAL TO
2239	∴	EXCESS	2257	⋉	RING EQUAL TO = <i>approximately equal to</i>
223A	≐	GEOMETRIC PROPORTION	2258	⋊	CORRESPONDS TO
223B	∝	HOMOTHETIC	2259	⋋	ESTIMATES = <i>corresponds to</i>
223C	~	TILDE OPERATOR = <i>varies with (proportional to)</i> = <i>difference between</i> = <i>similar to</i> = <i>APL tilde</i> = <i>cycle</i> = <i>not</i> × ( <i>tilde</i> → 007E) × ( <i>spacing tilde</i> → 02DC)	225A	∠	EQUIANGULAR TO
223D	˜	REVERSED TILDE = <i>lazy S</i> <i>reversed tilde and lazy S are glyph variants</i>	225B	★	STAR EQUALS
223E	∩	INVERTED LAZY S = <i>most positive</i>	225C	△	DELTA EQUAL TO = <i>equiangular</i> = <i>equal to by definition</i>
223F	∿	SINE WAVE = <i>alternating current</i>	225D	≐	EQUAL TO BY DEFINITION
2240	∪	WREATH PRODUCT	225E	≐	MEASURED BY
2241	⋈	NOT TILDE	225F	⋈	QUESTIONED EQUAL TO
2242	≍	MINUS TILDE	2260	≠	NOT EQUAL TO × ( <i>equals sign</i> → 003D) × ( <i>latin letter pipe double bar</i> → 01C2)
2243	≍	ASYMPTOTICALLY EQUAL TO	2261	≐	IDENTICAL TO
2244	≍	NOT ASYMPTOTICALLY EQUAL TO	2262	≠	NOT IDENTICAL TO
2245	≐	APPROXIMATELY EQUAL TO	2263	≐	STRICTLY EQUIVALENT TO
2246	≐	APPROXIMATELY BUT NOT ACTUALLY EQUAL TO	2264	⋈	LESS THAN OR EQUAL TO
2247	≐	NEITHER APPROXIMATELY NOR ACTUALLY EQUAL TO	2265	⋈	GREATER THAN OR EQUAL TO
2248	≈	ALMOST EQUAL TO = <i>asymptotic to</i>	2266	⋈	LESS THAN OVER EQUAL TO
2249	≠	NOT ALMOST EQUAL TO	2267	⋈	GREATER THAN OVER EQUAL TO
224A	≐	ALMOST EQUAL OR EQUAL TO	2268	≠	LESS THAN BUT NOT EQUAL TO
224B	≐	TRIPLE TILDE	2269	≠	GREATER THAN BUT NOT EQUAL TO
224C	≐	ALL EQUAL TO <i>reversed tilde and lazy S are glyph variants</i>	226A	⋈	MUCH LESS THAN × ( <i>left pointing guillemet</i> → 00AB)
224D	⋈	EQUIVALENT TO	226B	⋈	MUCH GREATER THAN × ( <i>right pointing guillemet</i> → 00BB)
224E	⋈	GEOMETRICALLY EQUIVALENT TO	226C	∅	BETWEEN = <i>plaintiff</i> = <i>quantic</i>
224F	⋈	DIFFERENCE BETWEEN	226D	⋈	NOT EQUIVALENT TO
2250	⋈	APPROACHES THE LIMIT	226E	⋈	NOT LESS THAN
2251	⋈	GEOMETRICALLY EQUAL TO	226F	⋈	NOT GREATER THAN
			2270	⋈	NEITHER LESS THAN NOR EQUAL TO
			2271	⋈	NEITHER GREATER THAN NOR EQUAL TO
			2272	⋈	LESS THAN OR EQUIVALENT TO
			2273	⋈	GREATER THAN OR EQUIVALENT TO
			2274	⋈	NEITHER LESS THAN NOR EQUIVALENT TO
			2275	⋈	NEITHER GREATER THAN NOR EQUIVALENT TO
















































2276	$\lessgtr$	LESS THAN OR GREATER THAN	229A	$\odot$	CIRCLED RING OPERATOR × ( <i>bullseye</i> → 25CE)
2277	$\gtrless$	GREATER THAN OR LESS THAN	229B	$\otimes$	CIRCLED ASTERISK OPERATOR
2278	$\nlessgtr$	NEITHER LESS THAN NOR GREATER THAN	229C	$\ominus$	CIRCLED EQUALS
2279	$\ngtrless$	NEITHER GREATER THAN NOR LESS THAN	229D	$\omin�$	CIRCLED DASH
227A	$\prec$	PRECEDES = <i>lower rank than</i> × ( <i>precedes under relation</i> → 22B0)	229E	$\boxplus$	SQUARED PLUS
227B	$\succ$	SUCCEEDS = <i>higher rank than</i> × ( <i>succeeds under relation</i> → 22B1)	229F	$\boxminus$	SQUARED MINUS
227C	$\preceq$	PRECEDES OR EQUAL TO	22A0	$\boxtimes$	SQUARED TIMES × ( <i>ballot box with x</i> → 2612)
227D	$\succeq$	SUCCEEDS OR EQUAL TO	22A1	$\boxdot$	SQUARED DOT OPERATOR
227E	$\preceq$	PRECEDES OR EQUIVALENT TO	22A2	$\dashv$	RIGHT TACK = <i>turnstile</i> = <i>proves, implies, yields</i> = <i>reducible</i>
227F	$\succeq$	SUCCEEDS OR EQUIVALENT TO	22A3	$\dashv$	LEFT TACK = <i>reverse turnstile</i> = <i>non-theorem, does not yield</i>
2280	$\nprec$	DOES NOT PRECEDE	22A4	$\dashv$	DOWN TACK
2281	$\nsuc$	DOES NOT SUCCEED	22A5	$\perp$	UP TACK = <i>orthogonal to</i> = <i>perpendicular</i> <i>APL and other uses</i>
2282	$\subset$	SUBSET OF	22A6	$\vdash$	ASSERTION = <i>reduces to</i>
2283	$\supset$	SUPERSET OF	22A7	$\models$	MODELS
2284	$\not\subset$	NOT A SUBSET OF	22A8	$\vDash$	TRUE = <i>statement is true, valid</i> = <i>is a tautology</i> = <i>satisfies</i> = <i>results in</i>
2285	$\not\supset$	NOT A SUPERSET OF	22A9	$\Vdash$	FORCES
2286	$\subset$	SUBSET OF OR EQUAL TO	22AA	$\equiv$	TRIPLE VERTICAL BAR RIGHT TURNSTILE
2287	$\supset$	SUPERSET OF OR EQUAL TO	22AB	$\equiv$	DOUBLE VERTICAL BAR DOUBLE RIGHT TURNSTILE
2288	$\not\subset$	NEITHER A SUBSET OF NOR EQUAL TO	22AC	$\nprec$	DOES NOT PROVE
2289	$\not\supset$	NEITHER A SUPERSET OF NOR EQUAL TO	22AD	$\nprec$	NOT TRUE
228A	$\subset$	SUBSET OF OR NOT EQUAL TO	22AE	$\nprec$	DOES NOT FORCE
228B	$\supset$	SUPERSET OF OR NOT EQUAL TO	22AF	$\nprec$	NEGATED DOUBLE VERTICAL BAR DOUBLE RIGHT TURNSTILE
228C	$\uplus$	MULTISET	22B0	$\prec$	PRECEDES UNDER RELATION × ( <i>precedes</i> → 227A)
228D	$\uplus$	MULTISET MULTIPLICATION	22B1	$\succ$	SUCCEEDS UNDER RELATION × ( <i>succeeds</i> → 227B)
228E	$\uplus$	MULTISET UNION	22B2	$\triangleleft$	NORMAL SUBGROUP OF
228F	$\square$	SQUARE IMAGE OF	22B3	$\triangleright$	CONTAINS AS NORMAL SUBGROUP
2290	$\square$	SQUARE ORIGINAL OF	22B4	$\triangleleft$	NORMAL SUBGROUP OF OR EQUAL TO
2291	$\square$	SQUARE IMAGE OF OR EQUAL TO	22B5	$\triangleright$	CONTAINS AS NORMAL SUBGROUP OR EQUAL TO
2292	$\square$	SQUARE ORIGINAL OF OR EQUAL TO	22B6	$\circ$	ORIGINAL OF
2293	$\sqcap$	SQUARE CAP	22B7	$\circ$	IMAGE OF
2294	$\sqcup$	SQUARE CUP	22B8	$\multimap$	MULTIMAP
2295	$\oplus$	CIRCLED PLUS = <i>direct sum</i> = <i>vector pointing into page</i> × ( <i>earth</i> → 2641)			
2296	$\ominus$	CIRCLED MINUS = <i>symmetric difference</i>			
2297	$\otimes$	CIRCLED TIMES = <i>tensor product</i> = <i>vector pointing into page</i>			
2298	$\oslash$	CIRCLED DIVISION SLASH			
2299	$\odot$	CIRCLED DOT OPERATOR = <i>direct product</i> = <i>vector pointing out of page</i> × ( <i>latin letter bullseye</i> → 0298) × ( <i>sun</i> → 2609)			



22B9	$\overset{-}{\underset{-}{ }}$	HERMITIAN CONJUGATE MATRIX	22E0	$\nlessdot$	DOES NOT PRECEDE OR EQUAL
22BA	$\top$	INTERCALATE	22E1	$\nlessdot$	DOES NOT SUCCEED OR EQUAL
22BB	$\overset{\equiv}{\vee}$	XOR	22E2	$\nlessdot$	NOT SQUARE IMAGE OF OR EQUAL TO
22BC	$\overset{\equiv}{\wedge}$	NAND	22E3	$\nlessdot$	NOT SQUARE ORIGINAL OF OR EQUAL TO
22BD	$\overset{\equiv}{\vee}$	NOR	22E4	$\nlessdot$	SQUARE IMAGE OF OR NOT EQUAL TO
22BE	$\lrcorner$	RIGHT ANGLE WITH ARC	22E5	$\nlessdot$	SQUARE ORIGINAL OF OR NOT EQUAL TO
22BF	$\triangle$	RIGHT TRIANGLE	22E6	$\nlessdot$	LESS THAN BUT NOT EQUIVALENT TO
22C0	$\bigwedge$	N-ARY LOGICAL AND	22E7	$\nlessdot$	GREATER THAN BUT NOT EQUIVALENT TO
22C1	$\bigvee$	N-ARY LOGICAL OR	22E8	$\nlessdot$	PRECEDES BUT NOT EQUIVALENT TO
22C2	$\cap$	N-ARY INTERSECTION	22E9	$\nlessdot$	SUCCEEDS BUT NOT EQUIVALENT TO
22C3	$\cup$	N-ARY UNION	22EA	$\nlessdot$	NOT NORMAL SUBGROUP OF
22C4	$\diamond$	DIAMOND OPERATOR × ( <i>white diamond</i> → 25C7)	22EB	$\nlessdot$	DOES NOT CONTAIN AS NORMAL SUBGROUP
22C5	$\cdot$	DOT OPERATOR × ( <i>middle dot</i> → 00B7)	22EC	$\nlessdot$	NOT NORMAL SUBGROUP OF OR EQUAL TO
22C6	$\star$	STAR OPERATOR APL × ( <i>black star</i> → 2605)	22ED	$\nlessdot$	DOES NOT CONTAIN AS NORMAL SUBGROUP OR EQUAL
22C7	$\div$	DIVISION TIMES	22EE	$\vdots$	VERTICAL ELLIPSIS <i>these four ellipses are used for matrix row/column ellision</i> × ( <i>horizontal ellipsis</i> → 2026)
22C8	$\bowtie$	BOWTIE × ( <i>ocr bow tie</i> → 2445)	22EF	$\cdots$	MIDLINE HORIZONTAL ELLIPSIS
22C9	$\ltimes$	LEFT NORMAL FACTOR SEMIDIRECT PRODUCT	22F0	$\ddots$	UP RIGHT DIAGONAL ELLIPSIS
22CA	$\rtimes$	RIGHT NORMAL FACTOR SEMIDIRECT PRODUCT	22F1	$\ddots$	DOWN RIGHT DIAGONAL ELLIPSIS
22CB	$\wr$	LEFT SEMIDIRECT PRODUCT			
22CC	$\overleftarrow{\wedge}$	RIGHT SEMIDIRECT PRODUCT × ( <i>caret insertion point</i> → 2041)			
22CD	$\Re$	REVERSED TILDE EQUALS			
22CE	$\curlyvee$	CURLY LOGICAL OR			
22CF	$\curlywedge$	CURLY LOGICAL AND			
22D0	$\Subset$	DOUBLE SUBSET			
22D1	$\Supset$	DOUBLE SUPERSET			
22D2	$\cap\cap$	DOUBLE INTERSECTION			
22D3	$\cup\cup$	DOUBLE UNION			
22D4	$\pitchfork$	PITCHFORK = <i>proper intersection</i>			
22D5	$\#$	EQUAL AND PARALLEL TO × ( <i>viewdata square</i> → 2317)			
22D6	$\lessdot$	LESS THAN WITH DOT			
22D7	$\gtrdot$	GREATER THAN WITH DOT			
22D8	$\lll$	VERY MUCH LESS THAN			
22D9	$\ggg$	VERY MUCH GREATER THAN			
22DA	$\lessgtr$	LESS THAN EQUAL TO OR GREATER THAN			
22DB	$\gtrless$	GREATER THAN EQUAL TO OR LESS THAN			
22DC	$\lessgtr$	EQUAL TO OR LESS THAN			
22DD	$\gtrless$	EQUAL TO OR GREATER THAN			
22DE	$\lessgtr$	EQUAL TO OR PRECEDES			
22DF	$\gtrless$	EQUAL TO OR SUCCEEDS			












	230	231	232	233	234	235	236	237	238
0	APL COMPOSE								
1									
2									
3									
4									
5									
6									
7									
8									
9									
A									
B									
C									
D									
E									
F									

Miscellaneous technical				
2300	 APL COMPOSE OPERATOR	2322		FROWN
2301	 APL OUT	2323		SMILE
2302	 HOUSE	2324		ENTER KEY
2303	 UP ARROWHEAD × ( <i>spacing circumflex</i> → 005E) × ( <i>modifier letter up arrowhead</i> → 02C4)	2325		OPTION KEY
2304	 DOWN ARROWHEAD	2326		DELETE TO THE RIGHT KEY
2305		2327		CLEAR KEY
2306		2328		KEYBOARD
2307	 WAVY LINE × ( <i>wavy dash</i> → 3030)	2329		BRA = ISO LEFT-POINTING ANGLE BRACKET × ( <i>less-than sign</i> → 003C) × ( <i>left pointing single guillemet</i> → 2039) × ( <i>opening angle bracket</i> → 3008)
2308	 LEFT CEILING = APL upstile	232A		KET = ISO RIGHT-POINTING ANGLE BRACKET × ( <i>greater-than sign</i> → 003E) × ( <i>right pointing single guillemet</i> → 203A) × ( <i>closing angle bracket</i> → 3009)
2309		232B		DELETE TO THE LEFT KEY
230A	 LEFT FLOOR = APL downstile	232C		BENZENE RING
230B				
230C	 BOTTOM RIGHT CROP <i>set of four "crop" corners, arranged facing outward</i>			
230D				
230E				
230F				
2310	 REVERSED NOT SIGN = <i>beginning of line</i> × ( <i>not sign</i> → 00AC)			
2311				
2312				
2313				
2314				
2315				
2316				
2317	 VIEWDATA SQUARE × ( <i>equal and parallel to</i> → 22D5)			
2318	 COMMAND KEY = <i>point of interest</i>			
2319	 TURNED NOT SIGN = <i>line marker</i>			
231A	 WATCH			
231B	 HOURGLASS			
231C	 TOP LEFT CORNER <i>set of four "quine" corners, for quincuncial arrangement</i>			
231D				
231E				
231F				
2320	 TOP HALF INTEGRAL			
2321	 BOTTOM HALF INTEGRAL			

	240	241	242	243
0	NUL	DLE	SP	
1	SOH	DC1	DEL	
2	STX	DC2	<b>b</b>	
3	ETX	DC3	<b>L</b>	
4	EOT	DC4	NL	
5	ENQ	NAK		
6	ACK	SYN		
7	BEL	ETB		
8	BS	CAN		
9	HT	EM		
A	LF	SUB		
B	VT	ESC		
C	FF	FS		
D	CR	GS		
E	SO	RS		
F	SI	US		

## Graphic pictures for control codes

2400	NUL	GRAPHIC FOR NULL		
2401	SOH	GRAPHIC FOR START OF HEADING		
2402	STX	GRAPHIC FOR START OF TEXT		
2403	ETX	GRAPHIC FOR END OF TEXT		
2404	EOT	GRAPHIC FOR END OF TRANSMISSION		
2405	ENQ	GRAPHIC FOR ENQUIRY		
2406	ACK	GRAPHIC FOR ACKNOWLEDGE		
2407	BEL	GRAPHIC FOR BELL		
2408	BS	GRAPHIC FOR BACKSPACE		
2409	HT	GRAPHIC FOR HORIZONTAL TABULATION		
240A	LF	GRAPHIC FOR LINE FEED		
240B	VT	GRAPHIC FOR VERTICAL TABULATION		
240C	FF	GRAPHIC FOR FORM FEED		
240D	CR	GRAPHIC FOR CARRIAGE RETURN		
240E	SO	GRAPHIC FOR SHIFT OUT		
240F	SI	GRAPHIC FOR SHIFT IN		
2410	DLE	GRAPHIC FOR DATA LINK ESCAPE		
2411	DC1	GRAPHIC FOR DEVICE CONTROL ONE		
2412	DC2	GRAPHIC FOR DEVICE CONTROL TWO		
2413	DC3	GRAPHIC FOR DEVICE CONTROL THREE		
2414	DC4	GRAPHIC FOR DEVICE CONTROL FOUR		
2415	NAK	GRAPHIC FOR NEGATIVE ACKNOWLEDGE		
2416	SYN	GRAPHIC FOR SYNCHRONOUS IDLE		
2417	ETB	GRAPHIC FOR END OF TRANSMISSION BLOCK		
2418	CAN	GRAPHIC FOR CANCEL		
2419	EM	GRAPHIC FOR END OF MEDIUM		
241A	SUB	GRAPHIC FOR SUBSTITUTE		
241B	ESC	GRAPHIC FOR ESCAPE		
241C	FS	GRAPHIC FOR FILE SEPARATOR		
241D	GS	GRAPHIC FOR GROUP SEPARATOR		
241E	RS	GRAPHIC FOR RECORD SEPARATOR		
241F	US	GRAPHIC FOR UNIT SEPARATOR		
2420	SP	GRAPHIC FOR SPACE		
2421	DEL	GRAPHIC FOR DELETE		
2422	̣	BLANK <i>graphic for space</i> × ( <i>latin small letter b bar</i> → 0180)		
2423	◡	OPEN BOX <i>graphic for space</i>		
2424	NL	GRAPHIC FOR NEWLINE		

	244	245
0		
1		
2		
3		
4		
5		
6		
7		
8		
9		
A		
B		
C		
D		
E		
F		



		OCR	2440	2441	2442	2443	2444	2445	2446	2447	2448	2449	244A
2440	∩	OCR HOOK											
2441	∩	OCR CHAIR											
2442	∩	OCR FORK											
2443	∩	OCR INVERTED FORK											
2444	∩	OCR BELT BUCKLE											
2445	∩	OCR BOW TIE × ( <i>bowtie</i> → 22C8)											
2446	∩	OCR BRANCH BANK IDENTIFICATION = <i>transit</i>											
2447	∩	OCR AMOUNT OF CHECK											
2448	∩	OCR DASH = <i>on us</i>											
2449	∩	OCR CUSTOMER ACCOUNT NUMBER = <i>dash</i>											
244A	∩	OCR DOUBLE BACKSLASH											

	246	247	248	249	24A	24B	24C	24D	24E	24F
0	①	⑰	(13)	9.	(e)	(u)	Ⓚ	ⓐ	Ⓠ	
1	②	⑱	(14)	10.	(f)	(v)	Ⓛ	ⓑ	Ⓡ	
2	③	⑲	(15)	11.	(g)	(w)	Ⓜ	ⓒ	Ⓢ	
3	④	⑳	(16)	12.	(h)	(x)	Ⓝ	ⓓ	Ⓣ	
4	⑤	(1)	(17)	13.	(i)	(y)	Ⓞ	ⓔ	Ⓤ	
5	⑥	(2)	(18)	14.	(j)	(z)	Ⓟ	ⓕ	Ⓥ	
6	⑦	(3)	(19)	15.	(k)	Ⓐ	Ⓠ	ⓖ	Ⓦ	
7	⑧	(4)	(20)	16.	(l)	Ⓑ	Ⓡ	ⓗ	Ⓧ	
8	⑨	(5)	1.	17.	(m)	Ⓒ	Ⓢ	Ⓢ	Ⓨ	
9	⑩	(6)	2.	18.	(n)	Ⓓ	Ⓣ	Ⓣ	Ⓩ	
A	⑪	(7)	3.	19.	(o)	Ⓔ	Ⓤ	Ⓚ	Ⓞ	
B	⑫	(8)	4.	20.	(p)	Ⓕ	Ⓥ	Ⓛ		
C	⑬	(9)	5.	(a)	(q)	Ⓖ	Ⓦ	ⓓ		
D	⑭	(10)	6.	(b)	(r)	Ⓗ	Ⓧ	Ⓝ		
E	⑮	(11)	7.	(c)	(s)	Ⓘ	Ⓨ	ⓔ		
F	⑯	(12)	8.	(d)	(t)	Ⓡ	Ⓩ	Ⓟ		

**Circled numbers**

2460	①	CIRCLED DIGIT ONE
2461	②	CIRCLED DIGIT TWO
2462	③	CIRCLED DIGIT THREE
2463	④	CIRCLED DIGIT FOUR
2464	⑤	CIRCLED DIGIT FIVE
2465	⑥	CIRCLED DIGIT SIX
2466	⑦	CIRCLED DIGIT SEVEN
2467	⑧	CIRCLED DIGIT EIGHT
2468	⑨	CIRCLED DIGIT NINE
2469	⑩	CIRCLED NUMBER TEN
246A	⑪	CIRCLED NUMBER ELEVEN
246B	⑫	CIRCLED NUMBER TWELVE
246C	⑬	CIRCLED NUMBER THIRTEEN
246D	⑭	CIRCLED NUMBER FOURTEEN
246E	⑮	CIRCLED NUMBER FIFTEEN
246F	⑯	CIRCLED NUMBER SIXTEEN
2470	⑰	CIRCLED NUMBER SEVENTEEN
2471	⑱	CIRCLED NUMBER EIGHTEEN
2472	⑲	CIRCLED NUMBER NINETEEN
2473	⑳	CIRCLED NUMBER TWENTY

**Parenthesized numbers**

2474	(1)	PARENTHESIZED DIGIT ONE
2475	(2)	PARENTHESIZED DIGIT TWO
2476	(3)	PARENTHESIZED DIGIT THREE
2477	(4)	PARENTHESIZED DIGIT FOUR
2478	(5)	PARENTHESIZED DIGIT FIVE
2479	(6)	PARENTHESIZED DIGIT SIX
247A	(7)	PARENTHESIZED DIGIT SEVEN
247B	(8)	PARENTHESIZED DIGIT EIGHT
247C	(9)	PARENTHESIZED DIGIT NINE
247D	(10)	PARENTHESIZED NUMBER TEN
247E	(11)	PARENTHESIZED NUMBER ELEVEN
247F	(12)	PARENTHESIZED NUMBER TWELVE
2480	(13)	PARENTHESIZED NUMBER THIRTEEN
2481	(14)	PARENTHESIZED NUMBER FOURTEEN
2482	(15)	PARENTHESIZED NUMBER FIFTEEN
2483	(16)	PARENTHESIZED NUMBER SIXTEEN
2484	(17)	PARENTHESIZED NUMBER SEVENTEEN
2485	(18)	PARENTHESIZED NUMBER EIGHTEEN
2486	(19)	PARENTHESIZED NUMBER NINETEEN
2487	(20)	PARENTHESIZED NUMBER TWENTY

**Numbers period**

2488	1.	DIGIT ONE PERIOD
2489	2.	DIGIT TWO PERIOD
248A	3.	DIGIT THREE PERIOD
248B	4.	DIGIT FOUR PERIOD
248C	5.	DIGIT FIVE PERIOD
248D	6.	DIGIT SIX PERIOD
248E	7.	DIGIT SEVEN PERIOD
248F	8.	DIGIT EIGHT PERIOD
2490	9.	DIGIT NINE PERIOD
2491	10.	NUMBER TEN PERIOD
2492	11.	NUMBER ELEVEN PERIOD
2493	12.	NUMBER TWELVE PERIOD
2494	13.	NUMBER THIRTEEN PERIOD
2495	14.	NUMBER FOURTEEN PERIOD
2496	15.	NUMBER FIFTEEN PERIOD
2497	16.	NUMBER SIXTEEN PERIOD
2498	17.	NUMBER SEVENTEEN PERIOD
2499	18.	NUMBER EIGHTEEN PERIOD
249A	19.	NUMBER NINETEEN PERIOD
249B	20.	NUMBER TWENTY PERIOD

**Parenthesized Latin letters**

249C	(a)	PARENTHESIZED LATIN SMALL LETTER A
249D	(b)	PARENTHESIZED LATIN SMALL LETTER B
249E	(c)	PARENTHESIZED LATIN SMALL LETTER C
249F	(d)	PARENTHESIZED LATIN SMALL LETTER D
24A0	(e)	PARENTHESIZED LATIN SMALL LETTER E
24A1	(f)	PARENTHESIZED LATIN SMALL LETTER F
24A2	(g)	PARENTHESIZED LATIN SMALL LETTER G
24A3	(h)	PARENTHESIZED LATIN SMALL LETTER H
24A4	(i)	PARENTHESIZED LATIN SMALL LETTER I
24A5	(j)	PARENTHESIZED LATIN SMALL LETTER J
24A6	(k)	PARENTHESIZED LATIN SMALL LETTER K
24A7	(l)	PARENTHESIZED LATIN SMALL LETTER L
24A8	(m)	PARENTHESIZED LATIN SMALL LETTER M
24A9	(n)	PARENTHESIZED LATIN SMALL LETTER N
24AA	(o)	PARENTHESIZED LATIN SMALL LETTER O
24AB	(p)	PARENTHESIZED LATIN SMALL LETTER P
24AC	(q)	PARENTHESIZED LATIN SMALL LETTER Q
24AD	(r)	PARENTHESIZED LATIN SMALL LETTER R
24AE	(s)	PARENTHESIZED LATIN SMALL LETTER S
24AF	(t)	PARENTHESIZED LATIN SMALL LETTER T
24B0	(u)	PARENTHESIZED LATIN SMALL LETTER U
24B1	(v)	PARENTHESIZED LATIN SMALL LETTER V
24B2	(w)	PARENTHESIZED LATIN SMALL LETTER W

24B3 (x) PARENTHESES LATIN SMALL LETTER X  
 24B4 (y) PARENTHESES LATIN SMALL LETTER Y  
 24B5 (z) PARENTHESES LATIN SMALL LETTER Z

**Circled Latin letters**

24B6 (A) CIRCLED LATIN CAPITAL LETTER A  
 24B7 (B) CIRCLED LATIN CAPITAL LETTER B  
 24B8 (C) CIRCLED LATIN CAPITAL LETTER C  
 24B9 (D) CIRCLED LATIN CAPITAL LETTER D  
 24BA (E) CIRCLED LATIN CAPITAL LETTER E  
 24BB (F) CIRCLED LATIN CAPITAL LETTER F  
 24BC (G) CIRCLED LATIN CAPITAL LETTER G  
 24BD (H) CIRCLED LATIN CAPITAL LETTER H  
 24BE (I) CIRCLED LATIN CAPITAL LETTER I  
 24BF (J) CIRCLED LATIN CAPITAL LETTER J  
 24C0 (K) CIRCLED LATIN CAPITAL LETTER K  
 24C1 (L) CIRCLED LATIN CAPITAL LETTER L  
 24C2 (M) CIRCLED LATIN CAPITAL LETTER M  
 24C3 (N) CIRCLED LATIN CAPITAL LETTER N  
 24C4 (O) CIRCLED LATIN CAPITAL LETTER O  
 24C5 (P) CIRCLED LATIN CAPITAL LETTER P  
 24C6 (Q) CIRCLED LATIN CAPITAL LETTER Q  
 24C7 (R) CIRCLED LATIN CAPITAL LETTER R  
 24C8 (S) CIRCLED LATIN CAPITAL LETTER S  
 24C9 (T) CIRCLED LATIN CAPITAL LETTER T  
 24CA (U) CIRCLED LATIN CAPITAL LETTER U  
 24CB (V) CIRCLED LATIN CAPITAL LETTER V  
 24CC (W) CIRCLED LATIN CAPITAL LETTER W  
 24CD (X) CIRCLED LATIN CAPITAL LETTER X  
 24CE (Y) CIRCLED LATIN CAPITAL LETTER Y  
 24CF (Z) CIRCLED LATIN CAPITAL LETTER Z  
 24D0 (a) CIRCLED LATIN SMALL LETTER A  
 24D1 (b) CIRCLED LATIN SMALL LETTER B  
 24D2 (c) CIRCLED LATIN SMALL LETTER C  
 24D3 (d) CIRCLED LATIN SMALL LETTER D  
 24D4 (e) CIRCLED LATIN SMALL LETTER E  
 24D5 (f) CIRCLED LATIN SMALL LETTER F  
 24D6 (g) CIRCLED LATIN SMALL LETTER G  
 24D7 (h) CIRCLED LATIN SMALL LETTER H  
 24D8 (i) CIRCLED LATIN SMALL LETTER I  
 24D9 (j) CIRCLED LATIN SMALL LETTER J  
 24DA (k) CIRCLED LATIN SMALL LETTER K  
 24DB (l) CIRCLED LATIN SMALL LETTER L  
 24DC (m) CIRCLED LATIN SMALL LETTER M  
 24DD (n) CIRCLED LATIN SMALL LETTER N  
 24DE (o) CIRCLED LATIN SMALL LETTER O

24DF (p) CIRCLED LATIN SMALL LETTER P  
 24E0 (q) CIRCLED LATIN SMALL LETTER Q  
 24E1 (r) CIRCLED LATIN SMALL LETTER R  
 24E2 (s) CIRCLED LATIN SMALL LETTER S  
 24E3 (t) CIRCLED LATIN SMALL LETTER T  
 24E4 (u) CIRCLED LATIN SMALL LETTER U  
 24E5 (v) CIRCLED LATIN SMALL LETTER V  
 24E6 (w) CIRCLED LATIN SMALL LETTER W  
 24E7 (x) CIRCLED LATIN SMALL LETTER X  
 24E8 (y) CIRCLED LATIN SMALL LETTER Y  
 24E9 (z) CIRCLED LATIN SMALL LETTER Z

**Additional circled numbers**






























































24EA (0) CIRCLED DIGIT ZERO

























	250	251	252	253	254	255	256	257
0								
1								
2								
3								
4								
5								
6								
7								
8								
9								
A								
B								
C								
D								
E								
F								



<b>Form and chart components</b>					
2500	—	FORMS LIGHT HORIZONTAL = Videotex Mosaic DG 15	2521	┣	FORMS DOWN LIGHT AND RIGHT UP HEAVY
2501	—	FORMS HEAVY HORIZONTAL	2522	┣	FORMS UP LIGHT AND RIGHT DOWN HEAVY
2502		FORMS LIGHT VERTICAL = Videotex Mosaic DG 14	2523	┣	FORMS HEAVY VERTICAL AND RIGHT
2503		FORMS HEAVY VERTICAL	2524	┣	FORMS LIGHT VERTICAL AND LEFT = Videotex Mosaic DG 21
2504	---	FORMS LIGHT TRIPLE DASH HORIZONTAL	2525	┣	FORMS VERTICAL LIGHT AND LEFT HEAVY = Videotex Mosaic DG 04
2505	---	FORMS HEAVY TRIPLE DASH HORIZONTAL	2526	┣	FORMS UP HEAVY AND LEFT DOWN LIGHT
2506	⋮	FORMS LIGHT TRIPLE DASH VERTICAL	2527	┣	FORMS DOWN HEAVY AND LEFT UP LIGHT
2507	⋮	FORMS HEAVY TRIPLE DASH VERTICAL	2528	┣	FORMS VERTICAL HEAVY AND LEFT LIGHT
2508	⋯	FORMS LIGHT QUADRUPLE DASH HORIZONTAL	2529	┣	FORMS DOWN LIGHT AND LEFT UP HEAVY
2509	⋯	FORMS HEAVY QUADRUPLE DASH HORIZONTAL	252A	┣	FORMS UP LIGHT AND LEFT DOWN HEAVY
250A	⋮	FORMS LIGHT QUADRUPLE DASH VERTICAL	252B	┣	FORMS HEAVY VERTICAL AND LEFT
250B	⋮	FORMS HEAVY QUADRUPLE DASH VERTICAL	252C	┣	FORMS LIGHT DOWN AND HORIZONTAL = Videotex Mosaic DG 22
250C	┘	FORMS LIGHT DOWN AND RIGHT = Videotex Mosaic DG 16	252D	┣	FORMS LEFT HEAVY AND RIGHT DOWN LIGHT
250D	┘	FORMS DOWN LIGHT AND RIGHT HEAVY	252E	┣	FORMS RIGHT HEAVY AND LEFT DOWN LIGHT
250E	┘	FORMS DOWN HEAVY AND RIGHT LIGHT	252F	┣	FORMS DOWN LIGHT AND HORIZONTAL HEAVY = Videotex Mosaic DG 02
250F	┘	FORMS HEAVY DOWN AND RIGHT	2530	┣	FORMS DOWN HEAVY AND HORIZONTAL LIGHT
2510	┘	FORMS LIGHT DOWN AND LEFT = Videotex Mosaic DG 17	2531	┣	FORMS RIGHT LIGHT AND LEFT DOWN HEAVY
2511	┘	FORMS DOWN LIGHT AND LEFT HEAVY	2532	┣	FORMS LEFT LIGHT AND RIGHT DOWN HEAVY
2512	┘	FORMS DOWN HEAVY AND LEFT LIGHT	2533	┣	FORMS HEAVY DOWN AND HORIZONTAL
2513	┘	FORMS HEAVY DOWN AND LEFT	2534	┣	FORMS LIGHT UP AND HORIZONTAL = Videotex Mosaic DG 23
2514	┘	FORMS LIGHT UP AND RIGHT = Videotex Mosaic DG 18	2535	┣	FORMS LEFT HEAVY AND RIGHT UP LIGHT
2515	┘	FORMS UP LIGHT AND RIGHT HEAVY	2536	┣	FORMS RIGHT HEAVY AND LEFT UP LIGHT
2516	┘	FORMS UP HEAVY AND RIGHT LIGHT	2537	┣	FORMS UP LIGHT AND HORIZONTAL HEAVY = Videotex Mosaic DG 01
2517	┘	FORMS HEAVY UP AND RIGHT	2538	┣	FORMS UP HEAVY AND HORIZONTAL LIGHT
2518	┘	FORMS LIGHT UP AND LEFT = Videotex Mosaic DG 19	2539	┣	FORMS RIGHT LIGHT AND LEFT UP HEAVY
2519	┘	FORMS UP LIGHT AND LEFT HEAVY	253A	┣	FORMS LEFT LIGHT AND RIGHT UP HEAVY
251A	┘	FORMS UP HEAVY AND LEFT LIGHT	253B	┣	FORMS HEAVY UP AND HORIZONTAL
251B	┘	FORMS HEAVY UP AND LEFT	253C	┣	FORMS LIGHT VERTICAL AND HORIZONTAL = Videotex Mosaic DG 24
251C	┣	FORMS LIGHT VERTICAL AND RIGHT = Videotex Mosaic DG 20	253D	┣	FORMS LEFT HEAVY AND RIGHT VERTICAL LIGHT
251D	┣	FORMS VERTICAL LIGHT AND RIGHT HEAVY = Videotex Mosaic DG 03	253E	┣	FORMS RIGHT HEAVY AND LEFT VERTICAL LIGHT
251E	┣	FORMS UP HEAVY AND RIGHT DOWN LIGHT	253F	┣	FORMS VERTICAL LIGHT AND HORIZONTAL HEAVY = Videotex Mosaic DG 13
251F	┣	FORMS DOWN HEAVY AND RIGHT UP LIGHT			
2520	┣	FORMS VERTICAL HEAVY AND RIGHT LIGHT			

2540		FORMS UP HEAVY AND DOWN HORIZONTAL LIGHT	2562		FORMS VERTICAL DOUBLE AND LEFT SINGLE
2541		FORMS DOWN HEAVY AND UP HORIZONTAL LIGHT	2563		FORMS DOUBLE VERTICAL AND LEFT
2542		FORMS VERTICAL HEAVY AND HORIZONTAL LIGHT	2564		FORMS DOWN SINGLE AND HORIZONTAL DOUBLE
2543		FORMS LEFT UP HEAVY AND RIGHT DOWN LIGHT	2565		FORMS DOWN DOUBLE AND HORIZONTAL SINGLE
2544		FORMS RIGHT UP HEAVY AND LEFT DOWN LIGHT	2566		FORMS DOUBLE DOWN AND HORIZONTAL
2545		FORMS LEFT DOWN HEAVY AND RIGHT UP LIGHT	2567		FORMS UP SINGLE AND HORIZONTAL DOUBLE
2546		FORMS RIGHT DOWN HEAVY AND LEFT UP LIGHT	2568		FORMS UP DOUBLE AND HORIZONTAL SINGLE
2547		FORMS DOWN LIGHT AND UP HORIZONTAL HEAVY	2569		FORMS DOUBLE UP AND HORIZONTAL
2548		FORMS UP LIGHT AND DOWN HORIZONTAL HEAVY	256A		FORMS VERTICAL SINGLE AND HORIZONTAL DOUBLE
2549		FORMS RIGHT LIGHT AND LEFT VERTICAL HEAVY	256B		FORMS VERTICAL DOUBLE AND HORIZONTAL SINGLE
254A		FORMS LEFT LIGHT AND RIGHT VERTICAL HEAVY	256C		FORMS DOUBLE VERTICAL AND HORIZONTAL
254B		FORMS HEAVY VERTICAL AND HORIZONTAL	256D		FORMS LIGHT ARC DOWN AND RIGHT
254C		FORMS LIGHT DOUBLE DASH HORIZONTAL	256E		FORMS LIGHT ARC DOWN AND LEFT
254D		FORMS HEAVY DOUBLE DASH HORIZONTAL	256F		FORMS LIGHT ARC UP AND LEFT
254E		FORMS LIGHT DOUBLE DASH VERTICAL	2570		FORMS LIGHT ARC UP AND RIGHT
254F		FORMS HEAVY DOUBLE DASH VERTICAL	2571		FORMS LIGHT DIAGONAL UPPER RIGHT TO LOWER LEFT = ISO FORWARD DIAGONAL
2550		FORMS DOUBLE HORIZONTAL	2572		FORMS LIGHT DIAGONAL UPPER LEFT TO LOWER RIGHT = ISO BACKWARD DIAGONAL
2551		FORMS DOUBLE VERTICAL	2573		FORMS LIGHT DIAGONAL CROSS
2552		FORMS DOWN SINGLE AND RIGHT DOUBLE	2574		FORMS LIGHT LEFT
2553		FORMS DOWN DOUBLE AND RIGHT SINGLE	2575		FORMS LIGHT UP
2554		FORMS DOUBLE DOWN AND RIGHT	2576		FORMS LIGHT RIGHT
2555		FORMS DOWN SINGLE AND LEFT DOUBLE	2577		FORMS LIGHT DOWN
2556		FORMS DOWN DOUBLE AND LEFT SINGLE	2578		FORMS HEAVY LEFT
2557		FORMS DOUBLE DOWN AND LEFT	2579		FORMS HEAVY UP
2558		FORMS UP SINGLE AND RIGHT DOUBLE	257A		FORMS HEAVY RIGHT
2559		FORMS UP DOUBLE AND RIGHT SINGLE	257B		FORMS HEAVY DOWN
255A		FORMS DOUBLE UP AND RIGHT	257C		FORMS LIGHT LEFT AND HEAVY RIGHT
255B		FORMS UP SINGLE AND LEFT DOUBLE	257D		FORMS LIGHT UP AND HEAVY DOWN
255C		FORMS UP DOUBLE AND LEFT SINGLE	257E		FORMS HEAVY LEFT AND LIGHT RIGHT
255D		FORMS DOUBLE UP AND LEFT	257F		FORMS HEAVY UP AND LIGHT DOWN
255E		FORMS VERTICAL SINGLE AND RIGHT DOUBLE			
255F		FORMS VERTICAL DOUBLE AND RIGHT SINGLE			
2560		FORMS DOUBLE VERTICAL AND RIGHT			
2561		FORMS VERTICAL SINGLE AND LEFT DOUBLE			



	258	259
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	25A	25B	25C	25D	25E	25F
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Geometric shapes					
25A0	■	BLACK SQUARE	25C3	◁	WHITE LEFT POINTING SMALL TRIANGLE
25A1	□	WHITE SQUARE = <i>quadrature</i> × ( <i>ballot box</i> → 2610)	25C4	◄	BLACK LEFT POINTING POINTER
25A2	◻	WHITE SQUARE WITH ROUNDED CORNERS	25C5	◁	WHITE LEFT POINTING POINTER = <i>backward arrow indicator</i>
25A3	◼	WHITE SQUARE CONTAINING BLACK SMALL SQUARE	25C6	◆	BLACK DIAMOND × ( <i>black diamond suit</i> → 2666)
25A4	▨	SQUARE WITH HORIZONTAL FILL	25C7	◇	WHITE DIAMOND × ( <i>diamond operator</i> → 22C4) × ( <i>white diamond suit</i> → 2662)
25A5	▩	SQUARE WITH VERTICAL FILL	25C8	◈	WHITE DIAMOND CONTAINING BLACK SMALL DIAMOND
25A6	▧	SQUARE WITH ORTHOGONAL CROSSHATCH FILL	25C9	◎	FISHEYE = <i>tainome</i> ( <i>Japanese, a kind of bullet</i> )
25A7	▤	SQUARE WITH UPPER LEFT TO LOWER RIGHT FILL	25CA	◊	LOZENGE × ( <i>white diamond suit</i> → 2662)
25A8	▥	SQUARE WITH UPPER RIGHT TO LOWER LEFT FILL	25CB	○	WHITE CIRCLE × ( <i>enclosing circle</i> → 20DD) × ( <i>ideographic number zero</i> → 3007)
25A9	▦	SQUARE WITH DIAGONAL CROSSHATCH FILL	25CC	⦿	DOTTED CIRCLE
25AA	▪	BLACK SMALL SQUARE	25CD	◐	CIRCLE WITH VERTICAL FILL
25AB	◻	WHITE SMALL SQUARE	25CE	◎	BULLSEYE × ( <i>circled ring operator</i> → 229A)
25AC	▬	BLACK RECTANGLE	25CF	●	BLACK CIRCLE
25AD	▭	WHITE RECTANGLE	25D0	◐	CIRCLE WITH LEFT HALF BLACK
25AE	▮	BLACK VERTICAL RECTANGLE = <i>histogram marker</i>	25D1	◑	CIRCLE WITH RIGHT HALF BLACK
25AF	▯	WHITE VERTICAL RECTANGLE = <i>APL quad</i>	25D2	◒	CIRCLE WITH LOWER HALF BLACK
25B0	▭	BLACK PARALLELOGRAM	25D3	◓	CIRCLE WITH UPPER HALF BLACK
25B1	▯	WHITE PARALLELOGRAM	25D4	◔	CIRCLE WITH UPPER RIGHT QUADRANT BLACK
25B2	▲	BLACK UP POINTING TRIANGLE	25D5	◕	CIRCLE WITH ALL BUT UPPER LEFT QUADRANT BLACK
25B3	△	WHITE UP POINTING TRIANGLE = <i>trine</i> × ( <i>increment</i> → 2206)	25D6	◖	LEFT HALF BLACK CIRCLE
25B4	▲	BLACK UP POINTING SMALL TRIANGLE	25D7	◗	RIGHT HALF BLACK CIRCLE
25B5	△	WHITE UP POINTING SMALL TRIANGLE	25D8	◘	INVERSE BULLET × ( <i>bullet</i> → 2022) × ( <i>white bullet</i> → 25E6)
25B6	▶	BLACK RIGHT POINTING TRIANGLE	25D9	◙	INVERSE WHITE CIRCLE
25B7	▷	WHITE RIGHT POINTING TRIANGLE	25DA	◚	UPPER HALF INVERSE WHITE CIRCLE
25B8	▸	BLACK RIGHT POINTING SMALL TRIANGLE × ( <i>triangular bullet</i> → 2023)	25DB	◛	LOWER HALF INVERSE WHITE CIRCLE
25B9	▷	WHITE RIGHT POINTING SMALL TRIANGLE	25DC	◜	UPPER LEFT QUADRANT CIRCULAR ARC
25BA	▹	BLACK RIGHT POINTING POINTER	25DD	◝	UPPER RIGHT QUADRANT CIRCULAR ARC
25BB	▷	WHITE RIGHT POINTING POINTER = <i>forward arrow indicator</i>	25DE	◞	LOWER RIGHT QUADRANT CIRCULAR ARC
25BC	▼	BLACK DOWN POINTING TRIANGLE	25DF	◟	LOWER LEFT QUADRANT CIRCULAR ARC
25BD	▽	WHITE DOWN POINTING TRIANGLE × ( <i>nabla</i> → 2207)	25E0	◠	UPPER HALF CIRCLE
25BE	▼	BLACK DOWN POINTING SMALL TRIANGLE	25E1	◡	LOWER HALF CIRCLE
25BF	▽	WHITE DOWN POINTING SMALL TRIANGLE	25E2	▴	BLACK LOWER RIGHT TRIANGLE
25C0	◄	BLACK LEFT POINTING TRIANGLE	25E3	▵	BLACK LOWER LEFT TRIANGLE
25C1	◁	WHITE LEFT POINTING TRIANGLE	25E4	▹	BLACK UPPER LEFT TRIANGLE
25C2	◄	BLACK LEFT POINTING SMALL TRIANGLE	25E5	▸	BLACK UPPER RIGHT TRIANGLE

- 25E6 ○ WHITE BULLET
  - × (bullet → 2022)
  - × (ring operator → 2218)
  - × (inverse bullet → 25D8)
- 25E7 ◼ SQUARE WITH LEFT HALF BLACK
- 25E8 ◼ SQUARE WITH RIGHT HALF BLACK
- 25E9 ◻ SQUARE WITH UPPER LEFT DIAGONAL HALF BLACK
- 25EA ◻ SQUARE WITH LOWER RIGHT DIAGONAL HALF BLACK
- 25EB ◻ WHITE SQUARE WITH VERTICAL BISECTING LINE
- 25EC ▲ WHITE UP POINTING TRIANGLE WITH DOT
- 25ED ▲ UP POINTING TRIANGLE WITH LEFT HALF BLACK
- 25EE ▲ UP POINTING TRIANGLE WITH RIGHT HALF BLACK



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Miscellaneous dingbats	
2600	 BLACK SUN WITH RAYS = <i>clear weather</i> × ( <i>sun</i> → 2609)
2601	 CLOUD = <i>cloudy weather</i>
2602	 UMBRELLA = <i>rainy weather</i>
2603	 SNOWMAN = <i>snowy weather</i>
2604	 COMET
2605	 BLACK STAR × ( <i>star operator</i> → 22C6)
2606	 WHITE STAR × ( <i>stress outlined white star</i> → 2729)
2607	 LIGHTNING
2608	 THUNDERSTORM
2609	 SUN × ( <i>circled dot operator</i> → 2299) × ( <i>black sun with rays</i> → 2600) × ( <i>white sun with rays</i> → 263C)
260A	 ASCENDING NODE
260B	 DESCENDING NODE
260C	 CONJUNCTION
260D	 OPPOSITION
260E	 BLACK TELEPHONE
260F	 WHITE TELEPHONE
2610	 BALLOT BOX × ( <i>white square</i> → 25A1)
2611	 BALLOT BOX WITH CHECK
2612	 BALLOT BOX WITH X × ( <i>squared times</i> → 22A0)
2613	 SALTIRE = <i>St. Andrew's Cross</i> × ( <i>ballot x</i> → 2717)
2614	
2615	
2616	
2617	
2618	
2619	
261A	 BLACK LEFT POINTING INDEX
261B	 BLACK RIGHT POINTING INDEX
261C	 WHITE LEFT POINTING INDEX
261D	 WHITE UP POINTING INDEX
261E	 WHITE RIGHT POINTING INDEX
261F	 WHITE DOWN POINTING INDEX
2620	 SKULL AND CROSSBONES = <i>poison</i>
2621	 CAUTION SIGN
2622	 RADIOACTIVE SIGN
2623	 BIOHAZARD SIGN
2624	 CADUCEUS
2625	 ANKH
2626	 ORTHODOX CROSS
2627	 CHI RHO
2628	 CROSS OF LORRAINE
2629	 CROSS OF JERUSALEM
262A	 STAR AND CRESCENT
262B	 SYMBOL OF IRAN
262C	 ADI SHAKTI
262D	 HAMMER AND SICKLE
262E	 PEACE SYMBOL
262F	 YIN YANG
2630	 TRIGRAM FOR HEAVEN = <i>qian2</i>
2631	 TRIGRAM FOR LAKE = <i>dui4</i>
2632	 TRIGRAM FOR FIRE = <i>li2</i>
2633	 TRIGRAM FOR THUNDER = <i>zhen4</i>
2634	 TRIGRAM FOR WIND = <i>xun4</i>
2635	 TRIGRAM FOR WATER = <i>kan3</i>
2636	 TRIGRAM FOR MOUNTAIN = <i>gen4</i>
2637	 TRIGRAM FOR EARTH = <i>kun1</i>
2638	 WHEEL OF DHARMA
2639	 WHITE FROWNING FACE
263A	 WHITE SMILING FACE = <i>have a nice day!</i>
263B	 BLACK SMILING FACE
263C	 WHITE SUN WITH RAYS = <i>compass</i> × ( <i>sun</i> → 2609)
263D	 FIRST QUARTER MOON
263E	 LAST QUARTER MOON
263F	 MERCURY
2640	 FEMALE SIGN = <i>Venus</i>
2641	 EARTH × ( <i>circled plus</i> → 2295)
2642	 MALE SIGN = <i>Mars</i>
2643	 JUPITER
2644	 SATURN
2645	 URANUS

2646	♆	NEPTUNE
2647	♇	PLUTO
2648	♈	ARIES
2649	♉	TAURUS
264A	♊	GEMINI
264B	♋	CANCER
264C	♌	LEO
264D	♍	VIRGO = <i>minim (alternate glyph)</i>
264E	♎	LIBRA
264F	♏	SCORPIUS = <i>minim, drop</i>
2650	♐	SAGITTARIUS
2651	♑	CAPRICORN
2652	♒	AQUARIUS
2653	♓	PISCES
2654	♔	WHITE CHESS KING
2655	♕	WHITE CHESS QUEEN
2656	♖	WHITE CHESS ROOK
2657	♗	WHITE CHESS BISHOP
2658	♘	WHITE CHESS KNIGHT
2659	♙	WHITE CHESS PAWN
265A	♚	BLACK CHESS KING
265B	♛	BLACK CHESS QUEEN
265C	♜	BLACK CHESS ROOK
265D	♝	BLACK CHESS BISHOP
265E	♞	BLACK CHESS KNIGHT
265F	♟	BLACK CHESS PAWN
2660	♠	BLACK SPADE SUIT
2661	♥	WHITE HEART SUIT
2662	◇	WHITE DIAMOND SUIT × ( <i>white diamond</i> → 25C7) × ( <i>lozenge</i> → 25CA)
2663	♣	BLACK CLUB SUIT = <i>shamrock</i>
2664	♠	WHITE SPADE SUIT
2665	♥	BLACK HEART SUIT = <i>valentine</i> × ( <i>heavy black heart</i> → 2764)
2666	♠	BLACK DIAMOND SUIT × ( <i>black diamond</i> → 25C6)
2667	♣	WHITE CLUB SUIT
2668	♨	HOT SPRINGS
2669	♪	QUARTER NOTE
266A	♫	EIGHTH NOTE
266B	♬	BARRED EIGHTH NOTES
266C	♭	BARRED SIXTEENTH NOTES
266D	♮	FLAT

266E ♮ NATURAL






266F # SHARP





	270	271	272	273	274	275	276	277	278	279	27A	27B
0									①	⑦		
1									②	⑧		
2									③	⑨		
3									④	⑩		
4									⑤			
5									⑥			
6								①	⑦			
7								②	⑧			
8								③	⑨			
9								④	⑩			
A						█		⑤	①			
B						◐		⑥	②			
C						◑		⑦	③			
D					○	◒		⑧	④			
E						◓		⑨	⑤			
F								⑩	⑥			

Zapf dingbats			
2700		272B	☆ OPEN CENTER BLACK STAR
2701	✂ UPPER BLADE SCISSORS	272C	★ BLACK CENTER WHITE STAR
2702	✂ BLACK SCISSORS	272D	★ OUTLINED BLACK STAR
2703	✂ LOWER BLADE SCISSORS	272E	★ HEAVY OUTLINED BLACK STAR
2704	✂ WHITE SCISSORS	272F	★ PINWHEEL STAR
2705	✕ ( <i>black telephone</i> → 260E)	2730	☆ SHADOWED WHITE STAR
2706	☎ TELEPHONE LOCATION SIGN	2731	✱ HEAVY ASTERISK ✕ ( <i>asterisk</i> → 002A)
2707	Ⓜ TAPE DRIVE	2732	✱ OPEN CENTER ASTERISK
2708	✈ AIRPLANE	2733	✱ EIGHT SPOKED ASTERISK
2709	✉ ENVELOPE	2734	✱ EIGHT POINTED BLACK STAR
270A	✕ ( <i>black right pointing index</i> → 261B)	2735	✱ EIGHT POINTED PINWHEEL STAR
270B	✕ ( <i>white right pointing index</i> → 261E)	2736	✱ SIX POINTED BLACK STAR = <i>sextile</i>
270C	✊ VICTORY HAND	2737	✱ EIGHT POINTED RECTILINEAR BLACK STAR
270D	✍ WRITING HAND	2738	✱ HEAVY EIGHT POINTED RECTILINEAR BLACK STAR
270E	✎ LOWER RIGHT PENCIL	2739	✱ TWELVE POINTED BLACK STAR
270F	✎ PENCIL	273A	✱ SIXTEEN POINTED ASTERISK = <i>starburst</i>
2710	✎ UPPER RIGHT PENCIL	273B	✱ TEARDROP-SPOKED ASTERISK
2711	⦿ WHITE NIB	273C	✱ OPEN CENTER TEARDROP-SPOKED ASTERISK
2712	⦿ BLACK NIB	273D	✱ HEAVY TEARDROP-SPOKED ASTERISK
2713	✓ CHECK MARK ✕ ( <i>square root</i> → 221A)	273E	✱ SIX PETALLED BLACK AND WHITE FLORETTE
2714	✓ HEAVY CHECK MARK	273F	✱ BLACK FLORETTE
2715	✕ MULTIPLICATION X	2740	⦿ WHITE FLORETTE
2716	✕ HEAVY MULTIPLICATION X	2741	⦿ EIGHT PETALLED OUTLINED BLACK FLORETTE
2717	✕ BALLOT X ✕ ( <i>saltire</i> → 2613)	2742	⦿ CIRCLED OPEN CENTER EIGHT POINTED STAR
2718	✕ HEAVY BALLOT X	2743	✱ HEAVY TEARDROP-SPOKED PINWHEEL ASTERISK
2719	⦶ OUTLINED GREEK CROSS	2744	✱ SNOWFLAKE
271A	⦶ HEAVY GREEK CROSS	2745	✱ TIGHT TRIFOLIATE SNOWFLAKE
271B	⦶ OPEN CENTER CROSS	2746	✱ HEAVY CHEVRON SNOWFLAKE
271C	⦶ HEAVY OPEN CENTER CROSS	2747	✱ SPARKLE
271D	⦶ LATIN CROSS	2748	✱ HEAVY SPARKLE
271E	⦶ SHADOWED WHITE LATIN CROSS	2749	✱ BALLOON-SPOKED ASTERISK = <i>jack</i>
271F	⦶ OUTLINED LATIN CROSS	274A	✱ EIGHT TEARDROP-SPOKED PROPELLER ASTERISK
2720	⦶ MALTESE CROSS	274B	✱ HEAVY EIGHT TEARDROP-SPOKED PROPELLER ASTERISK = <i>turbofan</i>
2721	☆ STAR OF DAVID	274C	✕ ( <i>black circle</i> → 25CF)
2722	⦶ FOUR TEARDROP-SPOKED ASTERISK	274D	○ SHADOWED WHITE CIRCLE
2723	⦶ FOUR BALLOON-SPOKED ASTERISK	274E	✕ ( <i>black square</i> → 25A0)
2724	⦶ HEAVY FOUR BALLOON-SPOKED ASTERISK		
2725	⦶ FOUR CLUB-SPOKED ASTERISK		
2726	◆ BLACK FOUR POINTED STAR		
2727	◇ WHITE FOUR POINTED STAR		
2728	✕ ( <i>black star</i> → 2605)		
2729	☆ STRESS OUTLINED WHITE STAR ✕ ( <i>white star</i> → 2606)		
272A	⦿ CIRCLED WHITE STAR		

274F		LOWER RIGHT DROP-SHADOWED WHITE SQUARE	276E	×	(circled digit three → 2462)	
2750		UPPER RIGHT DROP-SHADOWED WHITE SQUARE	276F	×	(circled digit four → 2463)	
2751		LOWER RIGHT SHADOWED WHITE SQUARE	2770	×	(circled digit five → 2464)	
2752		UPPER RIGHT SHADOWED WHITE SQUARE	2771	×	(circled digit six → 2465)	
2753		×	(black up pointing triangle → 25B2)	2772	×	(circled digit seven → 2466)
2754		×	(black down pointing triangle → 25BC)	2773	×	(circled digit eight → 2467)
2755		×	(black diamond → 25C6)	2774	×	(circled digit nine → 2468)
2756		BLACK DIAMOND MINUS WHITE X	2775	×	(circled number ten → 2469)	
2757		×	(right half black circle → 25D7)	2776	①	INVERSE CIRCLED DIGIT ONE
2758		LIGHT VERTICAL BAR	2777	②	INVERSE CIRCLED DIGIT TWO	
		×	(vertical bar → 007C)	2778	③	INVERSE CIRCLED DIGIT THREE
2759	▮	MEDIUM VERTICAL BAR	2779	④	INVERSE CIRCLED DIGIT FOUR	
275A	▮	HEAVY VERTICAL BAR	277A	⑤	INVERSE CIRCLED DIGIT FIVE	
275B	⊘	HEAVY SINGLE TURNED COMMA QUOTATION MARK ORNAMENT	277B	⑥	INVERSE CIRCLED DIGIT SIX	
		×	(single turned comma quotation mark → 2018)	277C	⑦	INVERSE CIRCLED DIGIT SEVEN
275C	⊘	HEAVY SINGLE COMMA QUOTATION MARK ORNAMENT	277D	⑧	INVERSE CIRCLED DIGIT EIGHT	
		×	(single comma quotation mark → 2019)	277E	⑨	INVERSE CIRCLED DIGIT NINE
275D	⊘	HEAVY DOUBLE TURNED COMMA QUOTATION MARK ORNAMENT	277F	⑩	INVERSE CIRCLED NUMBER TEN	
		×	(double turned comma quotation mark → 201C)	2780	①	CIRCLED SANS-SERIF DIGIT ONE
275E	⊘	HEAVY DOUBLE COMMA QUOTATION MARK ORNAMENT	2781	②	CIRCLED SANS-SERIF DIGIT TWO	
		×	(double comma quotation mark → 201D)	2782	③	CIRCLED SANS-SERIF DIGIT THREE
275F				2783	④	CIRCLED SANS-SERIF DIGIT FOUR
2760				2784	⑤	CIRCLED SANS-SERIF DIGIT FIVE
2761	¶	CURVED STEM PARAGRAPH SIGN ORNAMENT	2785	⑥	CIRCLED SANS-SERIF DIGIT SIX	
		×	(paragraph sign → 00B6)	2786	⑦	CIRCLED SANS-SERIF DIGIT SEVEN
2762	⚡	HEAVY EXCLAMATION MARK ORNAMENT	2787	⑧	CIRCLED SANS-SERIF DIGIT EIGHT	
		×	(exclamation mark → 0021)	2788	⑨	CIRCLED SANS-SERIF DIGIT NINE
2763	♥	HEAVY HEART EXCLAMATION MARK ORNAMENT	2789	⑩	CIRCLED SANS-SERIF NUMBER TEN	
2764	♥	HEAVY BLACK HEART	278A	①	INVERSE CIRCLED SANS-SERIF DIGIT ONE	
		×	(black heart suit → 2665)	278B	②	INVERSE CIRCLED SANS-SERIF DIGIT TWO
2765	♠	ROTATED HEAVY BLACK HEART BULLET	278C	③	INVERSE CIRCLED SANS-SERIF DIGIT THREE	
2766	♣	FLORAL HEART	278D	④	INVERSE CIRCLED SANS-SERIF DIGIT FOUR	
2767	♣	ROTATED FLORAL HEART BULLET	278E	⑤	INVERSE CIRCLED SANS-SERIF DIGIT FIVE	
2768		×	(black club suit → 2663)	278F	⑥	INVERSE CIRCLED SANS-SERIF DIGIT SIX
2769		×	(black diamond suit → 2666)	2790	⑦	INVERSE CIRCLED SANS-SERIF DIGIT SEVEN
276A		×	(black heart suit → 2665)	2791	⑧	INVERSE CIRCLED SANS-SERIF DIGIT EIGHT
276B		×	(black spade suit → 2660)	2792	⑨	INVERSE CIRCLED SANS-SERIF DIGIT NINE
276C		×	(circled digit one → 2460)	2793	⑩	INVERSE CIRCLED SANS-SERIF NUMBER TEN
276D		×	(circled digit two → 2461)	2794	➔	HEAVY WIDE-HEADED RIGHT ARROW
				2795	×	(right arrow → 2192)
				2796	×	(left right arrow → 2194)
				2797	×	(up down arrow → 2195)
				2798	↘	HEAVY LOWER RIGHT ARROW
				2799	➔	HEAVY RIGHT ARROW
				279A	↗	HEAVY UPPER RIGHT ARROW
				279B	➔	DRAFTING POINT RIGHT ARROW

279C	➔	HEAVY ROUND-TIPPED RIGHT ARROW	27BE	⇒	OPEN-OUTLINED RIGHT ARROW
279D	➔	TRIANGLE-HEADED RIGHT ARROW			
279E	➔	HEAVY TRIANGLE-HEADED RIGHT ARROW			
279F	➔	DASHED TRIANGLE-HEADED RIGHT ARROW			
27A0	➔	HEAVY DASHED TRIANGLE-HEADED RIGHT ARROW			
27A1	➔	BLACK RIGHT ARROW			
27A2	➔	THREE-D TOP-LIGHTED RIGHT ARROWHEAD			
27A3	➔	THREE-D BOTTOM-LIGHTED RIGHT ARROWHEAD			
27A4	➔	BLACK RIGHT ARROWHEAD			
27A5	➔	HEAVY BLACK CURVED DOWN AND RIGHT ARROW			
27A6	➔	HEAVY BLACK CURVED UP AND RIGHT ARROW			
27A7	➔	SQUAT BLACK RIGHT ARROW			
27A8	➔	HEAVY CONCAVE-POINTED BLACK RIGHT ARROW			
27A9	➔	RIGHT-SHADED WHITE RIGHT ARROW			
27AA	➔	LEFT-SHADED WHITE RIGHT ARROW			
27AB	➔	BACK-TILTED SHADOWED WHITE RIGHT ARROW			
27AC	➔	FRONT-TILTED SHADOWED WHITE RIGHT ARROW			
27AD	➔	HEAVY LOWER RIGHT-SHADOWED WHITE RIGHT ARROW			
27AE	➔	HEAVY UPPER RIGHT-SHADOWED WHITE RIGHT ARROW			
27AF	➔	NOTCHED LOWER RIGHT-SHADOWED WHITE RIGHT ARROW			
27B0					
27B1	➔	NOTCHED UPPER RIGHT-SHADOWED WHITE RIGHT ARROW			
27B2	➔	CIRCLED HEAVY WHITE RIGHT ARROW			
27B3	➔	WHITE-FEATHERED RIGHT ARROW			
27B4	➔	BLACK-FEATHERED LOWER RIGHT ARROW			
27B5	➔	BLACK-FEATHERED RIGHT ARROW			
27B6	➔	BLACK-FEATHERED UPPER RIGHT ARROW			
27B7	➔	HEAVY BLACK-FEATHERED LOWER RIGHT ARROW			
27B8	➔	HEAVY BLACK-FEATHERED RIGHT ARROW			
27B9	➔	HEAVY BLACK-FEATHERED UPPER RIGHT ARROW			
27BA	➔	TEARDROP-BARBED RIGHT ARROW			
27BB	➔	HEAVY TEARDROP-SHANKED RIGHT ARROW			
27BC	➔	WEDGE-TAILED RIGHT ARROW			
27BD	➔	HEAVY WEDGE-TAILED RIGHT ARROW			



	300	301	302	303
0	␣ Ideo SP	【	⊕	〰
1	、	】	丨	〈
2	。〇	〒		〵
3	〃	≡		/
4	仝	〈	メ	ノ
5	々	〉	𠂇	ㄣ
6	↗	⌈	⊥	⊕
7	○	⌋	⊥	
8	〈	⌈	≡	
9	〉	⌋	女	
A	《	⌈	◦	
B	》	⌋	◦	
C	┌	┐	◦	
D	└	”	◦	
E	┌	”	◦	
F	└	”	◦	⊗



CJK symbols and punctuation			
3000	 IDEOGRAPHIC SPACE × ( <i>space</i> → 0020)	3014	( OPENING TORTOISE SHELL BRACKET = ISO LEFT TORTOISE-SHELL BRACKET
3001	 IDEOGRAPHIC COMMA × ( <i>comma</i> → 002C)	3015	) CLOSING TORTOISE SHELL BRACKET = ISO RIGHT TORTOISE-SHELL BRACKET
3002	 IDEOGRAPHIC PERIOD = ISO IDEOGRAPHIC FULL STOP × ( <i>period</i> → 002E)	3016	[[ OPENING WHITE LENTICULAR BRACKET
3003	// DITTO MARK × ( <i>double prime</i> → 2033)	3017	]] CLOSING WHITE LENTICULAR BRACKET
3004	 IDEOGRAPHIC DITTO MARK	3018	[( OPENING WHITE TORTOISE SHELL BRACKET = ISO LEFT EMPTY ANGULAR BRACKET SIGN
3005	 IDEOGRAPHIC ITERATION MARK	3019	)] CLOSING WHITE TORTOISE SHELL BRACKET = ISO RIGHT EMPTY ANGULAR BRACKET SIGN
3006	 IDEOGRAPHIC CLOSING MARK	301A	[ ] OPENING WHITE SQUARE BRACKET = ISO LEFT EMPTY BRACKET
3007	○ IDEOGRAPHIC NUMBER ZERO × ( <i>enclosing circle</i> → 20DD) × ( <i>white circle</i> → 25CB)	301B	] ] CLOSING WHITE SQUARE BRACKET = ISO RIGHT EMPTY BRACKET
3008	< OPENING ANGLE BRACKET × ( <i>less-than sign</i> → 003C) × ( <i>left pointing single guillemet</i> → 2039) × ( <i>bra</i> → 2329)	301C	— WAVE DASH <i>JIS punctuation</i> × ( <i>wavy dash</i> → 3030)
3009	> CLOSING ANGLE BRACKET × ( <i>greater-than sign</i> → 003E) × ( <i>right pointing single guillemet</i> → 203A) × ( <i>ket</i> → 232A)	301D	“ REVERSED DOUBLE PRIME QUOTATION MARK × ( <i>double turned comma quotation mark</i> → 201C) × ( <i>reversed double prime</i> → 2036)
300A	« OPENING DOUBLE ANGLE BRACKET = ISO LEFT-POINTING DOUBLE ANGLE BRACKET × ( <i>left pointing guillemet</i> → 00AB)	301E	” DOUBLE PRIME QUOTATION MARK × ( <i>double comma quotation mark</i> → 201D) × ( <i>double prime</i> → 2033)
300B	» CLOSING DOUBLE ANGLE BRACKET = ISO RIGHT-POINTING DOUBLE ANGLE BRACKET × ( <i>right pointing guillemet</i> → 00BB)	301F	„ LOW DOUBLE PRIME QUOTATION MARK × ( <i>low double comma quotation mark</i> → 201E)
300C	[ OPENING CORNER BRACKET = ISO IDEOGRAPHIC LEFT BRACKET	3020	 POSTAL MARK FACE
300D	] CLOSING CORNER BRACKET = ISO IDEOGRAPHIC RIGHT BRACKET <i>used as quotation marks</i>		<b>Hangzhou-style numerals</b>
300E	[ [ OPENING WHITE CORNER BRACKET = ISO IDEOGRAPHIC LEFT DOUBLE BRACKET	3021	HANGZHOU NUMERAL ONE
300F	] ] CLOSING WHITE CORNER BRACKET = ISO IDEOGRAPHIC RIGHT DOUBLE BRACKET <i>used as quotation marks</i>	3022	HANGZHOU NUMERAL TWO
3010	【 OPENING BLACK LENTICULAR BRACKET = ISO LEFT BOLDFACE SQUARE BRACKET	3023	HANGZHOU NUMERAL THREE
3011	】 CLOSING BLACK LENTICULAR BRACKET = ISO RIGHT BOLDFACE SQUARE BRACKET	3024	× HANGZHOU NUMERAL FOUR
3012	〒 POSTAL MARK	3025	ㄥ HANGZHOU NUMERAL FIVE
3013	■ GETA MARK <i>substitute for ideograph not in font</i>	3026	ㄷ HANGZHOU NUMERAL SIX
		3027	ㄱ HANGZHOU NUMERAL SEVEN
		3028	ㄴ HANGZHOU NUMERAL EIGHT
		3029	ㄹ HANGZHOU NUMERAL NINE
			<b>Diacritics</b>
		302A	◌◌ IDEOGRAPHIC LEVEL TONE MARK
		302B	◌◌◌ IDEOGRAPHIC RISING TONE MARK
		302C	◌◌◌◌ IDEOGRAPHIC DEPARTING TONE MARK
		302D	◌◌◌◌◌ IDEOGRAPHIC ENTERING TONE MARK

- 302E ◌ HANGUL SINGLE DOT TONE MARK
- 302F ◌ HANGUL DOUBLE DOT TONE MARK

**Other CJK symbols**

- 3030 〰 WAVY DASH  
  - × (wavy line → 2307)
  - × (wave dash → 301C)
- 3031 〰 VERTICAL KANA REPEAT MARK
- 3032 〰 VERTICAL KANA REPEAT WITH VOICED SOUND MARK  
  - the preceding two semantic characters are preferred to the following three glyphic forms*
- 3033 〰 VERTICAL KANA REPEAT MARK UPPER HALF
- 3034 〰 VERTICAL KANA REPEAT WITH VOICED SOUND MARK UPPER HALF  
  - the preceding two are glyphs used in conjunction with the following glyph*
- 3035 〰 VERTICAL KANA REPEAT MARK LOWER HALF
- 3036 ⊕ CIRCLED POSTAL MARK
- 3037
- 3038
- 3039
- 303A
- 303B
- 303C
- 303D
- 303E
- 303F ◻ IDEOGRAPHIC HALF FILL SPACE



	304	305	306	307	308	309
0		ぐ	だ	ば	む	る
1	あ	け	ち	ば	め	ゑ
2	あ	げ	ぢ	ひ	も	を
3	い	こ	っ	び	や	ん
4	い	ご	っ	び	や	づ
5	う	さ	づ	ふ	ゆ	
6	う	ぎ	て	ぶ	ゆ	
7	え	し	で	ぶ	よ	
8	え	じ	と	へ	よ	
9	お	す	ど	べ	ら	ゝ
A	お	ず	な	ぺ	り	ゞ
B	か	せ	に	ほ	る	ゝ
C	が	ぜ	ぬ	ぼ	れ	ゞ
D	き	そ	ね	ぽ	ろ	ゝ
E	ぎ	ぞ	の	ま	わ	づ
F	く	た	は	み	わ	

## Based on JIS X 0208

3040			3068	と	HIRAGANA LETTER TO
3041	あ	HIRAGANA LETTER SMALL A	3069	ど	HIRAGANA LETTER DO
3042	あ	HIRAGANA LETTER A	306A	な	HIRAGANA LETTER NA
3043	い	HIRAGANA LETTER SMALL I	306B	に	HIRAGANA LETTER NI
3044	い	HIRAGANA LETTER I	306C	ぬ	HIRAGANA LETTER NU
3045	う	HIRAGANA LETTER SMALL U	306D	ね	HIRAGANA LETTER NE
3046	う	HIRAGANA LETTER U	306E	の	HIRAGANA LETTER NO
3047	え	HIRAGANA LETTER SMALL E	306F	は	HIRAGANA LETTER HA
3048	え	HIRAGANA LETTER E	3070	ば	HIRAGANA LETTER BA
3049	お	HIRAGANA LETTER SMALL O	3071	ぱ	HIRAGANA LETTER PA
304A	お	HIRAGANA LETTER O	3072	ひ	HIRAGANA LETTER HI
304B	か	HIRAGANA LETTER KA	3073	び	HIRAGANA LETTER BI
304C	が	HIRAGANA LETTER GA	3074	ぴ	HIRAGANA LETTER PI
304D	き	HIRAGANA LETTER KI	3075	ふ	HIRAGANA LETTER HU = FU
304E	ぎ	HIRAGANA LETTER GI	3076	ぶ	HIRAGANA LETTER BU
304F	く	HIRAGANA LETTER KU	3077	ぷ	HIRAGANA LETTER PU
3050	ぐ	HIRAGANA LETTER GU	3078	へ	HIRAGANA LETTER HE
3051	け	HIRAGANA LETTER KE	3079	べ	HIRAGANA LETTER BE
3052	げ	HIRAGANA LETTER GE	307A	ぺ	HIRAGANA LETTER PE
3053	こ	HIRAGANA LETTER KO	307B	ほ	HIRAGANA LETTER HO
3054	ご	HIRAGANA LETTER GO	307C	ぼ	HIRAGANA LETTER BO
3055	さ	HIRAGANA LETTER SA	307D	ぽ	HIRAGANA LETTER PO
3056	ざ	HIRAGANA LETTER ZA	307E	ま	HIRAGANA LETTER MA
3057	し	HIRAGANA LETTER SI = SHI	307F	み	HIRAGANA LETTER MI
3058	じ	HIRAGANA LETTER ZI = JI (not unique)	3080	む	HIRAGANA LETTER MU
3059	す	HIRAGANA LETTER SU	3081	め	HIRAGANA LETTER ME
305A	ず	HIRAGANA LETTER ZU	3082	も	HIRAGANA LETTER MO
305B	せ	HIRAGANA LETTER SE	3083	や	HIRAGANA LETTER SMALL YA
305C	ぜ	HIRAGANA LETTER ZE	3084	や	HIRAGANA LETTER YA
305D	そ	HIRAGANA LETTER SO	3085	ゆ	HIRAGANA LETTER SMALL YU
305E	ぞ	HIRAGANA LETTER ZO	3086	ゆ	HIRAGANA LETTER YU
305F	た	HIRAGANA LETTER TA	3087	よ	HIRAGANA LETTER SMALL YO
3060	だ	HIRAGANA LETTER DA	3088	よ	HIRAGANA LETTER YO
3061	ち	HIRAGANA LETTER TI = CHI	3089	ら	HIRAGANA LETTER RA
3062	ち	HIRAGANA LETTER DI = JI (not unique)	308A	り	HIRAGANA LETTER RI
3063	っ	HIRAGANA LETTER SMALL TSU = SMALL TSU	308B	る	HIRAGANA LETTER RU
3064	っ	HIRAGANA LETTER TU = TSU	308C	れ	HIRAGANA LETTER RE
3065	づ	HIRAGANA LETTER DU = ZU (not unique)	308D	ろ	HIRAGANA LETTER RO
3066	て	HIRAGANA LETTER TE	308E	わ	HIRAGANA LETTER SMALL WA
3067	で	HIRAGANA LETTER DE	308F	わ	HIRAGANA LETTER WA
			3090	ゐ	HIRAGANA LETTER WI
			3091	ゑ	HIRAGANA LETTER WE
			3092	を	HIRAGANA LETTER WO
			3093	ん	HIRAGANA LETTER N
			3094	ヴ	HIRAGANA LETTER VU

- 3095
- 3096
- 3097
- 3098
- 3099 ◌゚ NON-SPACING KATAKANA-HIRAGANA  
VOICED SOUND MARK
- 309A ◌◌ NON-SPACING KATAKANA-HIRAGANA  
SEMI-VOICED SOUND MARK
- 309B ◌゛ KATAKANA-HIRAGANA VOICED SOUND  
MARK
- 309C ◌◌◌ KATAKANA-HIRAGANA SEMI-VOICED  
SOUND MARK
- 309D ◌ゝ HIRAGANA ITERATION MARK
- 309E ◌ゞ HIRAGANA VOICED ITERATION MARK





	30A	30B	30C	30D	30E	30F
0		グ	ダ	バ	ム	ヰ
1	ア	ケ	チ	パ	メ	エ
2	ア	ゲ	ヂ	ヒ	モ	ヲ
3	イ	コ	ツ	ビ	ヤ	ン
4	イ	ゴ	ヅ	ピ	ヤ	ヴ
5	ウ	サ	ヅ	フ	ユ	カ
6	ウ	ザ	テ	ブ	ユ	ケ
7	エ	シ	デ	プ	ヨ	
8	エ	ジ	ト	ヘ	ヨ	
9	オ	ス	ド	ベ	ラ	
A	オ	ズ	ナ	ペ	リ	
B	カ	セ	ニ	ホ	ル	・
C	ガ	ゼ	ヌ	ボ	レ	ー
D	キ	ソ	ネ	ポ	ロ	ゝ
E	ギ	ゾ	ノ	マ	ワ	ゞ
F	ク	タ	ハ	ミ	ワ	

## Based on JIS X 0208

30A0			30C8	ト	KATAKANA LETTER TO
30A1	ア	KATAKANA LETTER SMALL A	30C9	ド	KATAKANA LETTER DO
30A2	ア	KATAKANA LETTER A	30CA	ナ	KATAKANA LETTER NA
30A3	イ	KATAKANA LETTER SMALL I	30CB	ニ	KATAKANA LETTER NI
30A4	イ	KATAKANA LETTER I	30CC	ヌ	KATAKANA LETTER NU
30A5	ウ	KATAKANA LETTER SMALL U	30CD	ネ	KATAKANA LETTER NE
30A6	ウ	KATAKANA LETTER U	30CE	ノ	KATAKANA LETTER NO
30A7	エ	KATAKANA LETTER SMALL E	30CF	ハ	KATAKANA LETTER HA
30A8	エ	KATAKANA LETTER E	30D0	バ	KATAKANA LETTER BA
30A9	オ	KATAKANA LETTER SMALL O	30D1	パ	KATAKANA LETTER PA
30AA	オ	KATAKANA LETTER O	30D2	ヒ	KATAKANA LETTER HI
30AB	カ	KATAKANA LETTER KA	30D3	ビ	KATAKANA LETTER BI
30AC	ガ	KATAKANA LETTER GA	30D4	ピ	KATAKANA LETTER PI
30AD	キ	KATAKANA LETTER KI	30D5	フ	KATAKANA LETTER HU = FU
30AE	ギ	KATAKANA LETTER GI	30D6	ブ	KATAKANA LETTER BU
30AF	ク	KATAKANA LETTER KU	30D7	プ	KATAKANA LETTER PU
30B0	グ	KATAKANA LETTER GU	30D8	ヘ	KATAKANA LETTER HE
30B1	ケ	KATAKANA LETTER KE	30D9	ベ	KATAKANA LETTER BE
30B2	ゲ	KATAKANA LETTER GE	30DA	ペ	KATAKANA LETTER PE
30B3	コ	KATAKANA LETTER KO	30DB	ホ	KATAKANA LETTER HO
30B4	ゴ	KATAKANA LETTER GO	30DC	ボ	KATAKANA LETTER BO
30B5	サ	KATAKANA LETTER SA	30DD	ポ	KATAKANA LETTER PO
30B6	ザ	KATAKANA LETTER ZA	30DE	マ	KATAKANA LETTER MA
30B7	シ	KATAKANA LETTER SI = SHI	30DF	ミ	KATAKANA LETTER MI
30B8	ジ	KATAKANA LETTER ZI = JI (not unique)	30E0	ム	KATAKANA LETTER MU
30B9	ス	KATAKANA LETTER SU	30E1	メ	KATAKANA LETTER ME
30BA	ズ	KATAKANA LETTER ZU	30E2	モ	KATAKANA LETTER MO
30BB	セ	KATAKANA LETTER SE	30E3	ヤ	KATAKANA LETTER SMALL YA
30BC	ゼ	KATAKANA LETTER ZE	30E4	ヤ	KATAKANA LETTER YA
30BD	ソ	KATAKANA LETTER SO	30E5	ユ	KATAKANA LETTER SMALL YU
30BE	ゾ	KATAKANA LETTER ZO	30E6	ユ	KATAKANA LETTER YU
30BF	タ	KATAKANA LETTER TA	30E7	ヨ	KATAKANA LETTER SMALL YO
30C0	ダ	KATAKANA LETTER DA	30E8	ヨ	KATAKANA LETTER YO
30C1	チ	KATAKANA LETTER TI = CHI	30E9	ラ	KATAKANA LETTER RA
30C2	ヂ	KATAKANA LETTER DI = JI (not unique)	30EA	リ	KATAKANA LETTER RI
30C3	ツ	KATAKANA LETTER SMALL TU = SMALL TSU	30EB	ル	KATAKANA LETTER RU
30C4	ツ	KATAKANA LETTER TU = TSU	30EC	レ	KATAKANA LETTER RE
30C5	ヅ	KATAKANA LETTER DU = ZU (not unique)	30ED	ロ	KATAKANA LETTER RO
30C6	テ	KATAKANA LETTER TE	30EE	ワ	KATAKANA LETTER SMALL WA
30C7	デ	KATAKANA LETTER DE	30EF	ワ	KATAKANA LETTER WA
			30F0	ヰ	KATAKANA LETTER WI
			30F1	ヱ	KATAKANA LETTER WE
			30F2	ヲ	KATAKANA LETTER WO
			30F3	ン	KATAKANA LETTER N
			30F4	ヴ	KATAKANA LETTER VU

- 30F5 カ KATAKANA LETTER SMALL KA
- 30F6 ケ KATAKANA LETTER SMALL KE
- 30F7
- 30F8
- 30F9
- 30FA
- 30FB • KATAKANA MIDDLE DOT  
× (middle dot → 00B7)
- 30FC ー KATAKANA-HIRAGANA PROLONGED  
SOUND MARK  
× (em dash → 2014)
- 30FD 丶 KATAKANA ITERATION MARK
- 30FE 々 KATAKANA VOICED ITERATION MARK



	310	311	312
0		ㄩ	ㄝ
1		ㄨ	ㄨㄛ
2		ㄊ	ㄊㄛ
3		ㄓ	ㄓㄛ
4		ㄣ	ㄣㄛ
5	ㄣ	ㄨ	ㄨㄥ
6	ㄨ	ㄨ	ㄨㄥ
7	ㄨ	ㄨ	ㄨ
8	ㄨ	ㄨ	ㄨ
9	ㄨ	ㄨ	ㄨ
A	ㄨ	ㄨ	ㄨ
B	ㄨ	ㄨ	ㄨ
C	ㄨ	ㄨ	ㄨ
D	ㄨ	ㄨ	
E	ㄨ	ㄨ	
F	ㄨ	ㄨ	



## Based on GB 2312

- × (modifier letter hacek → 02C7)
- × (modifier letter macron → 02C9)
- × (modifier letter acute → 02CA)
- × (modifier letter grave → 02CB)
- × (spacing dot above → 02D9)

3129 ㄩ BOPOMOFO LETTER IU

## Dialect (non-Mandarin) letters

312A ㄨ BOPOMOFO LETTER V

312B ㄨ BOPOMOFO LETTER NG

312C ㄨ BOPOMOFO LETTER GN

3100  
3101  
3102  
3103  
3104  
3105 ㄅ BOPOMOFO LETTER B  
3106 ㄆ BOPOMOFO LETTER P  
3107 ㄇ BOPOMOFO LETTER M  
3108 ㄏ BOPOMOFO LETTER F  
3109 ㄏ BOPOMOFO LETTER D  
310A ㄏ BOPOMOFO LETTER T  
310B ㄏ BOPOMOFO LETTER N  
310C ㄏ BOPOMOFO LETTER L  
310D ㄏ BOPOMOFO LETTER G  
310E ㄏ BOPOMOFO LETTER K  
310F ㄏ BOPOMOFO LETTER H  
3110 ㄏ BOPOMOFO LETTER J  
3111 ㄏ BOPOMOFO LETTER Q  
3112 ㄏ BOPOMOFO LETTER X  
3113 ㄏ BOPOMOFO LETTER ZH  
3114 ㄏ BOPOMOFO LETTER CH  
3115 ㄏ BOPOMOFO LETTER SH  
3116 ㄏ BOPOMOFO LETTER R  
3117 ㄏ BOPOMOFO LETTER Z  
3118 ㄏ BOPOMOFO LETTER C  
3119 ㄏ BOPOMOFO LETTER S  
311A ㄏ BOPOMOFO LETTER A  
311B ㄏ BOPOMOFO LETTER O  
311C ㄏ BOPOMOFO LETTER E  
311D ㄏ BOPOMOFO LETTER EH  
311E ㄏ BOPOMOFO LETTER AI  
311F ㄏ BOPOMOFO LETTER EI  
3120 ㄏ BOPOMOFO LETTER AU  
3121 ㄏ BOPOMOFO LETTER OU  
3122 ㄏ BOPOMOFO LETTER AN  
3123 ㄏ BOPOMOFO LETTER EN  
3124 ㄏ BOPOMOFO LETTER ANG  
3125 ㄏ BOPOMOFO LETTER ENG  
3126 ㄏ BOPOMOFO LETTER ER  
3127 ㄏ BOPOMOFO LETTER I  
3128 ㄏ BOPOMOFO LETTER U

	313	314	315	316	317	318
0		ㄹᄇ	ㅂ	ㅍ	ㅁ△	∞
1	ㄱ	ㅁ	ㅂ	ㅡ	ㅇ	ㅇ
2	ㄱ	ㅂ	ㅂ	ㅡ	ㅂ	ㅇ
3	ㄱ	ㅂ	ㅂ	ㅡ	ㅂ	ㅇ△
4	ㄴ	ㅂ	ㅂ	(채움)	ㅂ	ㅍ
5	ㄴ	ㅂ	ㅂ	ㄴ	ㅂ	ㅎ
6	ㄴ	ㅂ	ㅂ	ㄴ	ㅂ	ㅎ
7	ㄴ	ㅇ	ㄴ	ㄴ	ㅂ	ㅂ
8	ㄴ	ㅂ	ㅂ	ㄴ△	ㅂ	ㅂ
9	ㄴ	ㅂ	ㅂ	ㄴ	ㅂ	ㅂ
A	ㄴ	ㅂ	ㅂ	ㄴ	ㅂ	ㅂ
B	ㄴ	ㅂ	ㅂ	ㄴ	ㅂ	ㅂ
C	ㄴ	ㅂ	ㅂ	ㄴ△	ㅂ	ㅂ
D	ㄴ	ㅂ	ㅂ	ㄴ	ㅂ	•
E	ㄴ	ㅂ	ㅂ	ㅂ	ㅂ	•
F	ㄴ	ㅂ	ㅂ	ㅂ	△	

## Based on KS C 5601

## Modern letters

3130		
3131	ㄱ	HANGUL LETTER GIYEOG
3132	ㄲ	HANGUL LETTER SSANG GIYEOG
3133	ㅋ	HANGUL LETTER GIYEOG SIOS
3134	ㄴ	HANGUL LETTER NIEUN
3135	ㄷ	HANGUL LETTER NIEUN JIEUJ
3136	ㄸ	HANGUL LETTER NIEUN HIEUH
3137	ㄹ	HANGUL LETTER DIGEUD
3138	ㄺ	HANGUL LETTER SSANG DIGEUD
3139	ㄻ	HANGUL LETTER LIEUL
313A	ㄼ	HANGUL LETTER LIEUL GIYEOG
313B	ㄽ	HANGUL LETTER LIEUL MIEUM
313C	ㄾ	HANGUL LETTER LIEUL BIEUB
313D	ㄿ	HANGUL LETTER LIEUL SIOS
313E	ㅀ	HANGUL LETTER LIEUL TIEUT
313F	ㅁ	HANGUL LETTER LIEUL PIEUP
3140	ㅂ	HANGUL LETTER LIEUL HIEUH
3141	ㅅ	HANGUL LETTER MIEUM
3142	ㅆ	HANGUL LETTER BIEUB
3143	ㅈ	HANGUL LETTER SSANG BIEUB
3144	ㅊ	HANGUL LETTER BIEUB SIOS
3145	ㅌ	HANGUL LETTER SIOS
3146	ㅍ	HANGUL LETTER SSANG SIOS
3147	ㅇ	HANGUL LETTER IEUNG
3148	ㅅ	HANGUL LETTER JIEUJ
3149	ㅆ	HANGUL LETTER SSANG JIEUJ
314A	ㅊ	HANGUL LETTER CIEUC
314B	ㅋ	HANGUL LETTER KIYEOK
314C	ㅌ	HANGUL LETTER TIEUT
314D	ㅍ	HANGUL LETTER PIEUP
314E	ㅎ	HANGUL LETTER HIEUH
314F	ㅏ	HANGUL LETTER A
3150	ㅑ	HANGUL LETTER AE
3151	ㅓ	HANGUL LETTER YA
3152	ㅕ	HANGUL LETTER YAE
3153	ㅗ	HANGUL LETTER EO
3154	ㅛ	HANGUL LETTER E
3155	ㅜ	HANGUL LETTER YEO
3156	ㅠ	HANGUL LETTER YE
3157	ㅡ	HANGUL LETTER O
3158	ㅜ	HANGUL LETTER WA
3159	ㅠ	HANGUL LETTER WAE
315A	ㅟ	HANGUL LETTER OE
315B	ㅠ	HANGUL LETTER YO

315C	ㅟ	HANGUL LETTER U
315D	ㅠ	HANGUL LETTER WEO
315E	ㅟ	HANGUL LETTER WE
315F	ㅟ	HANGUL LETTER WI
3160	ㅠ	HANGUL LETTER YU
3161	ㅡ	HANGUL LETTER EU
3162	ㅟ	HANGUL LETTER YI
3163	ㅣ	HANGUL LETTER I

## Special character

3164	(애움)	HANGUL CAE OM = FILL
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## Archaic letters

3165	ㄴ	HANGUL LETTER SSANG NIEUN
3166	ㄴ	HANGUL LETTER NIEUN DIGEUD
3167	ㄴ	HANGUL LETTER NIEUN SIOS
3168	ㄴ△	HANGUL LETTER NIEUN BAN CHI EUM
3169	ㄴㅅ	HANGUL LETTER LIEUL GIYEOG SIOS
316A	ㄴ	HANGUL LETTER LIEUL DIGEUD
316B	ㄴㅅ	HANGUL LETTER LIEUL BIEUB SIOS
316C	ㄴ△	HANGUL LETTER LIEUL BAN CHI EUM
316D	ㄴㅎ	HANGUL LETTER LIEUL YEOLIN HIEUH
316E	ㅁ	HANGUL LETTER MIEUM BIEUB
316F	ㅁ	HANGUL LETTER MIEUM SIOS
3170	ㅁ△	HANGUL LETTER BIEUB BAN CHI EUM
3171	ㅁ	HANGUL LETTER MIEUM SUN GYEONG EUM
3172	ㅁ	HANGUL LETTER BIEUB GIYEOG
3173	ㅁ	HANGUL LETTER BIEUB DIGEUD
3174	ㅁ	HANGUL LETTER BIEUB SIOS GIYEOG
3175	ㅁ	HANGUL LETTER BIEUB SIOS DIGEUD
3176	ㅁ	HANGUL LETTER BIEUB JIEUJ
3177	ㅁ	HANGUL LETTER BIEUB TIEUT
3178	ㅁ	HANGUL LETTER BIEUB SUN GYEONG EUM
3179	ㅁ	HANGUL LETTER SSANG BIEUB SUN GYEONG EUM
317A	ㅁ	HANGUL LETTER SIOS GIYEOG
317B	ㅁ	HANGUL LETTER SIOS NIEUN
317C	ㅁ	HANGUL LETTER SIOS DIGEUD
317D	ㅁ	HANGUL LETTER SIOS BIEUB
317E	ㅁ	HANGUL LETTER SIOS JIEUJ
317F	△	HANGUL LETTER BAN CHI EUM
3180	∞	HANGUL LETTER SSANG IEUNG
3181	ㅇ	HANGUL LETTER NGIEUNG <i>archaic velar nasal</i>
3182	ㅇ	HANGUL LETTER NGIEUNG SIOS

- 3183 ◌△ HANGUL LETTER NGIEUNG BAN CHI EUM
- 3184 ◌ㅍ HANGUL LETTER PIEUP SUN GYEONG EUM
- 3185 ◌ㅍㅍ HANGUL LETTER SSANG HIEUH
- 3186 ◌ㅑ HANGUL LETTER YEOLIN HIEUH  
*archaic glottal stop*
- 3187 ◌ㅓ HANGUL LETTER YOYA
- 3188 ◌ㅓㅓ HANGUL LETTER YOYAE
- 3189 ◌ㅕ HANGUL LETTER YOI
- 318A ◌ㅕㅕ HANGUL LETTER YUYEO
- 318B ◌ㅕㅕㅕ HANGUL LETTER YUYE
- 318C ◌ㅗ HANGUL LETTER YUI
- 318D ◌· HANGUL LETTER ALAE A
- 318E ◌·| HANGUL LETTER ALAE AE



	319	31A	31B	31C	31D	31E	31F
0	丨						
1	丿						
2	一						
3	二						
4	三						
5	四						
6	上						
7	中						
8	下						
9	甲						
A	乙						
B	丙						
C	丁						
D	天						
E	地						
F	人						





	320	321	322	323	324	325	326	327
0	(ㄱ)	(다)	(一)	(日)	(祭)		ㄱ	㉔
1	(ㄴ)	(라)	(二)	(株)	(休)		ㄴ	㉕
2	(ㄷ)	(마)	(三)	(有)	(自)		ㄷ	㉖
3	(ㄹ)	(바)	(四)	(社)	(至)		ㄹ	㉗
4	(ㅁ)	(사)	(五)	(名)			ㅁ	㉘
5	(ㅂ)	(아)	(六)	(特)			ㅂ	㉙
6	(ㅅ)	(자)	(七)	(財)			ㅅ	㉚
7	(ㅇ)	(차)	(八)	(祝)			ㅇ	㉛
8	(ㅈ)	(카)	(九)	(勞)			ㅈ	㉜
9	(ㅊ)	(타)	(十)	(代)			ㅊ	㉝
A	(ㅋ)	(과)	(月)	(呼)			ㅋ	㉞
B	(ㅌ)	(하)	(火)	(學)			ㅌ	㉟
C	(ㅍ)	(주)	(水)	(監)			ㅍ	
D	(ㅎ)		(木)	(企)			ㅎ	
E	(가)		(金)	(資)			가	
F	(나)		(土)	(協)			나	㉟

	328	329	32A	32B	32C	32D	32E	32F
0	一	日	項	夜		イ	レ	コ
1	二	株	休			ロ	ソ	エ
2	三	有	写			ハ	ツ	テ
3	四	社	正			ニ	ネ	ア
4	五	名	上			ホ	ナ	サ
5	六	特	中			ヘ	ラ	キ
6	七	財	下			ト	ム	ユ
7	八	祝	左			チ	ウ	メ
8	九	勞	右			リ	キ	ミ
9	十	秘	医			ヌ	ノ	シ
A	月	男	宗			ル	オ	エ
B	火	女	学			ヲ	ク	ヒ
C	水	適	監			ワ	ヤ	モ
D	木	優	企			カ	マ	セ
E	金	印	資			ヨ	ケ	ス
F	土	注	協			タ	フ	ク

**Parenthesized Hangul elements**

3200	(ㄱ)	PARENTHESIZED HANGUL GIYEOG
3201	(ㄴ)	PARENTHESIZED HANGUL NIEUN
3202	(ㄷ)	PARENTHESIZED HANGUL DIGEUD
3203	(ㄹ)	PARENTHESIZED HANGUL LIEUL
3204	(ㅁ)	PARENTHESIZED HANGUL MIEUM
3205	(ㅂ)	PARENTHESIZED HANGUL BIEUB
3206	(ㅅ)	PARENTHESIZED HANGUL SIOS
3207	(ㅇ)	PARENTHESIZED HANGUL IEUNG
3208	(ㅈ)	PARENTHESIZED HANGUL JIEUJ
3209	(ㅊ)	PARENTHESIZED HANGUL CIEUC
320A	(ㅋ)	PARENTHESIZED HANGUL KIYEOK
320B	(ㅌ)	PARENTHESIZED HANGUL TIEUT
320C	(ㅍ)	PARENTHESIZED HANGUL PIEUP
320D	(ㅎ)	PARENTHESIZED HANGUL HIEUH

**Parenthesized Hangul syllables**

320E	(가)	PARENTHESIZED HANGUL GA
320F	(나)	PARENTHESIZED HANGUL NA
3210	(다)	PARENTHESIZED HANGUL DA
3211	(라)	PARENTHESIZED HANGUL LA
3212	(마)	PARENTHESIZED HANGUL MA
3213	(바)	PARENTHESIZED HANGUL BA
3214	(사)	PARENTHESIZED HANGUL SA
3215	(아)	PARENTHESIZED HANGUL A
3216	(자)	PARENTHESIZED HANGUL JA
3217	(차)	PARENTHESIZED HANGUL CA
3218	(카)	PARENTHESIZED HANGUL KA
3219	(타)	PARENTHESIZED HANGUL TA
321A	(파)	PARENTHESIZED HANGUL PA
321B	(하)	PARENTHESIZED HANGUL HA
321C	(주)	PARENTHESIZED HANGUL JU
321D		
321E		
321F		

**Parenthesized ideographs**

3220	(一)	PARENTHESIZED IDEOGRAPH ONE
3221	(二)	PARENTHESIZED IDEOGRAPH TWO
3222	(三)	PARENTHESIZED IDEOGRAPH THREE
3223	(四)	PARENTHESIZED IDEOGRAPH FOUR
3224	(五)	PARENTHESIZED IDEOGRAPH FIVE
3225	(六)	PARENTHESIZED IDEOGRAPH SIX
3226	(七)	PARENTHESIZED IDEOGRAPH SEVEN
3227	(八)	PARENTHESIZED IDEOGRAPH EIGHT
3228	(九)	PARENTHESIZED IDEOGRAPH NINE

3229	(十)	PARENTHESIZED IDEOGRAPH TEN
322A	(月)	PARENTHESIZED IDEOGRAPH MOON <i>Monday</i>
322B	(火)	PARENTHESIZED IDEOGRAPH FIRE <i>Tuesday</i>
322C	(水)	PARENTHESIZED IDEOGRAPH WATER <i>Wednesday</i>
322D	(木)	PARENTHESIZED IDEOGRAPH WOOD <i>Thursday</i>
322E	(金)	PARENTHESIZED IDEOGRAPH METAL <i>Friday</i>
322F	(土)	PARENTHESIZED IDEOGRAPH EARTH <i>Saturday</i>
3230	(日)	PARENTHESIZED IDEOGRAPH SUN <i>Sunday</i>
3231	(株)	PARENTHESIZED IDEOGRAPH STOCK <i>incorporated</i>
3232	(有)	PARENTHESIZED IDEOGRAPH HAVE <i>limited</i>
3233	(社)	PARENTHESIZED IDEOGRAPH SOCIETY <i>company</i>
3234	(名)	PARENTHESIZED IDEOGRAPH NAME
3235	(特)	PARENTHESIZED IDEOGRAPH SPECIAL
3236	(財)	PARENTHESIZED IDEOGRAPH FINANCIAL
3237	(祝)	PARENTHESIZED IDEOGRAPH CONGRATULATION
3238	(勞)	PARENTHESIZED IDEOGRAPH LABOR
3239	(代)	PARENTHESIZED IDEOGRAPH REPRESENT
323A	(呼)	PARENTHESIZED IDEOGRAPH CALL
323B	(學)	PARENTHESIZED IDEOGRAPH STUDY
323C	(監)	PARENTHESIZED IDEOGRAPH SUPERVISE
323D	(企)	PARENTHESIZED IDEOGRAPH ENTERPRISE
323E	(資)	PARENTHESIZED IDEOGRAPH RESOURCE
323F	(協)	PARENTHESIZED IDEOGRAPH ALLIANCE
3240	(祭)	PARENTHESIZED IDEOGRAPH FESTIVAL
3241	(休)	PARENTHESIZED IDEOGRAPH REST
3242	(自)	PARENTHESIZED IDEOGRAPH SELF <i>from</i>
3243	(至)	PARENTHESIZED IDEOGRAPH REACH <i>to</i>
3244		
3245		
3246		
3247		
3248		
3249		
324A		
324B		
324C		

324D  
324E  
324F  
3250  
3251  
3252  
3253  
3254  
3255  
3256  
3257  
3258  
3259  
325A  
325B  
325C  
325D  
325E  
325F

**Circled Hangul elements**

3260 ㉿ CIRCLED HANGUL GIYEOG  
3261 ㊀ CIRCLED HANGUL NIEUN  
3262 ㊁ CIRCLED HANGUL DIGEUD  
3263 ㊂ CIRCLED HANGUL LIEUL  
3264 ㊃ CIRCLED HANGUL MIEUM  
3265 ㊄ CIRCLED HANGUL BIEUB  
3266 ㊅ CIRCLED HANGUL SIOS  
3267 ㊆ CIRCLED HANGUL IEUNG  
3268 ㊇ CIRCLED HANGUL JIEUJ  
3269 ㊈ CIRCLED HANGUL CIEUC  
326A ㊉ CIRCLED HANGUL KIYEOK  
326B ㊊ CIRCLED HANGUL TIEUT  
326C ㊋ CIRCLED HANGUL PIEUP  
326D ㊌ CIRCLED HANGUL HIEUH

**Circled Hangul syllables**

326E ㊍ CIRCLED HANGUL GA  
326F ㊎ CIRCLED HANGUL NA  
3270 ㊏ CIRCLED HANGUL DA  
3271 ㊑ CIRCLED HANGUL LA  
3272 ㊒ CIRCLED HANGUL MA  
3273 ㊓ CIRCLED HANGUL BA  
3274 ㊔ CIRCLED HANGUL SA  
3275 ㊕ CIRCLED HANGUL A  
3276 ㊖ CIRCLED HANGUL JA

3277 ㊗ CIRCLED HANGUL CA  
3278 ㊘ CIRCLED HANGUL KA  
3279 ㊙ CIRCLED HANGUL TA  
327A ㊚ CIRCLED HANGUL PA  
327B ㊛ CIRCLED HANGUL HA  
327C  
327D  
327E

**Symbol**

327F ㊜ KOREAN STANDARD SYMBOL

**Circled ideographs**

3280 ㊝ CIRCLED IDEOGRAPH ONE  
= *maru-iti, symbol of unification*  
3281 ㊞ CIRCLED IDEOGRAPH TWO  
3282 ㊟ CIRCLED IDEOGRAPH THREE  
3283 ㊠ CIRCLED IDEOGRAPH FOUR  
3284 ㊡ CIRCLED IDEOGRAPH FIVE  
3285 ㊢ CIRCLED IDEOGRAPH SIX  
3286 ㊣ CIRCLED IDEOGRAPH SEVEN  
3287 ㊤ CIRCLED IDEOGRAPH EIGHT  
3288 ㊥ CIRCLED IDEOGRAPH NINE  
3289 ㊦ CIRCLED IDEOGRAPH TEN  
328A ㊧ CIRCLED IDEOGRAPH MOON  
*Monday*  
328B ㊨ CIRCLED IDEOGRAPH FIRE  
*Tuesday*  
328C ㊩ CIRCLED IDEOGRAPH WATER  
*Wednesday*  
328D ㊪ CIRCLED IDEOGRAPH WOOD  
*Thursday*  
328E ㊫ CIRCLED IDEOGRAPH METAL  
*Friday*  
328F ㊬ CIRCLED IDEOGRAPH EARTH  
*Saturday*  
3290 ㊭ CIRCLED IDEOGRAPH SUN  
*Sunday*  
3291 ㊮ CIRCLED IDEOGRAPH STOCK  
*incorporated*  
3292 ㊯ CIRCLED IDEOGRAPH HAVE  
*limited*  
3293 ㊰ CIRCLED IDEOGRAPH SOCIETY  
*company*  
3294 ㊱ CIRCLED IDEOGRAPH NAME  
3295 ㊲ CIRCLED IDEOGRAPH SPECIAL  
3296 ㊳ CIRCLED IDEOGRAPH FINANCIAL  
3297 ㊴ CIRCLED IDEOGRAPH CONGRATULATION  
3298 ㊵ CIRCLED IDEOGRAPH LABOR



3299 秘 CIRCLED IDEOGRAPH SECRET  
 329A 男 CIRCLED IDEOGRAPH MALE  
 329B 女 CIRCLED IDEOGRAPH FEMALE  
 329C 適 CIRCLED IDEOGRAPH SUITABLE  
 329D 優 CIRCLED IDEOGRAPH EXCELLENT  
 329E 印 CIRCLED IDEOGRAPH PRINT  
     *name seal*  
 329F 注 CIRCLED IDEOGRAPH ATTENTION  
 32A0 項 CIRCLED IDEOGRAPH ITEM  
 32A1 休 CIRCLED IDEOGRAPH REST  
     *holiday*  
 32A2 写 CIRCLED IDEOGRAPH COPY  
 32A3 正 CIRCLED IDEOGRAPH CORRECT  
 32A4 上 CIRCLED IDEOGRAPH HIGH  
 32A5 中 CIRCLED IDEOGRAPH CENTER  
 32A6 下 CIRCLED IDEOGRAPH LOW  
 32A7 左 CIRCLED IDEOGRAPH LEFT  
 32A8 右 CIRCLED IDEOGRAPH RIGHT  
 32A9 医 CIRCLED IDEOGRAPH MEDICINE  
 32AA 宗 CIRCLED IDEOGRAPH RELIGION  
 32AB 学 CIRCLED IDEOGRAPH STUDY  
 32AC 監 CIRCLED IDEOGRAPH SUPERVISE  
 32AD 企 CIRCLED IDEOGRAPH ENTERPRISE  
 32AE 资 CIRCLED IDEOGRAPH RESOURCE  
 32AF 協 CIRCLED IDEOGRAPH ALLIANCE  
 32B0 夜 CIRCLED IDEOGRAPH NIGHT  
 32B1  
 32B2  
 32B3  
 32B4  
 32B5  
 32B6  
 32B7  
 32B8  
 32B9  
 32BA  
 32BB  
 32BC  
 32BD  
 32BE  
 32BF  
 32C0  
 32C1  
 32C2  
 32C3  
 32C4

32C5  
 32C6  
 32C7  
 32C8  
 32C9  
 32CA  
 32CB  
 32CC  
 32CD  
 32CE  
 32CF

## Circled Katakana

32D0 イ CIRCLED KATAKANA I  
 32D1 ロ CIRCLED KATAKANA RO  
 32D2 ハ CIRCLED KATAKANA HA  
 32D3 ニ CIRCLED KATAKANA NI  
 32D4 ホ CIRCLED KATAKANA HO  
 32D5 ヘ CIRCLED KATAKANA HE  
 32D6 ト CIRCLED KATAKANA TO  
 32D7 チ CIRCLED KATAKANA TI  
 32D8 リ CIRCLED KATAKANA RI  
 32D9 ヌ CIRCLED KATAKANA NU  
 32DA ル CIRCLED KATAKANA RU  
 32DB ワ CIRCLED KATAKANA WO  
 32DC フ CIRCLED KATAKANA WA  
 32DD カ CIRCLED KATAKANA KA  
 32DE ヨ CIRCLED KATAKANA YO  
 32DF タ CIRCLED KATAKANA TA  
 32E0 レ CIRCLED KATAKANA RE  
 32E1 ソ CIRCLED KATAKANA SO  
 32E2 ツ CIRCLED KATAKANA TU  
 32E3 ネ CIRCLED KATAKANA NE  
 32E4 ナ CIRCLED KATAKANA NA  
 32E5 ラ CIRCLED KATAKANA RA  
 32E6 ム CIRCLED KATAKANA MU  
 32E7 ウ CIRCLED KATAKANA U  
 32E8 卍 CIRCLED KATAKANA WI  
 32E9 ノ CIRCLED KATAKANA NO  
 32EA オ CIRCLED KATAKANA O  
 32EB ク CIRCLED KATAKANA KU  
 32EC ヤ CIRCLED KATAKANA YA  
 32ED マ CIRCLED KATAKANA MA  
 32EE ケ CIRCLED KATAKANA KE  
 32EF フ CIRCLED KATAKANA HU  
 32F0 コ CIRCLED KATAKANA KO



- 32F1 (㊦) CIRCLED KATAKANA WE
- 32F2 (㊧) CIRCLED KATAKANA TE
- 32F3 (㊨) CIRCLED KATAKANA A
- 32F4 (㊩) CIRCLED KATAKANA SA
- 32F5 (㊪) CIRCLED KATAKANA KI
- 32F6 (㊫) CIRCLED KATAKANA YU
- 32F7 (㊬) CIRCLED KATAKANA ME
- 32F8 (㊭) CIRCLED KATAKANA MI
- 32F9 (㊮) CIRCLED KATAKANA SI
- 32FA (㊯) CIRCLED KATAKANA E
- 32FB (㊰) CIRCLED KATAKANA HI
- 32FC (㊱) CIRCLED KATAKANA MO
- 32FD (㊲) CIRCLED KATAKANA SE
- 32FE (㊳) CIRCLED KATAKANA SU

**Symbol**

- 32FF (㊴) JAPANESE INDUSTRIAL STANDARD SYMBOL

	㊴	㊵	㊶	㊷	㊸	㊹	㊺
㊴	㊴	㊵	㊶	㊷	㊸	㊹	㊺
㊵	㊴	㊵	㊶	㊷	㊸	㊹	㊺
㊶	㊴	㊵	㊶	㊷	㊸	㊹	㊺
㊷	㊴	㊵	㊶	㊷	㊸	㊹	㊺
㊸	㊴	㊵	㊶	㊷	㊸	㊹	㊺
㊹	㊴	㊵	㊶	㊷	㊸	㊹	㊺
㊺	㊴	㊵	㊶	㊷	㊸	㊹	㊺
㊻	㊴	㊵	㊶	㊷	㊸	㊹	㊺
㊼	㊴	㊵	㊶	㊷	㊸	㊹	㊺
㊽	㊴	㊵	㊶	㊷	㊸	㊹	㊺
㊾	㊴	㊵	㊶	㊷	㊸	㊹	㊺
㊿	㊴	㊵	㊶	㊷	㊸	㊹	㊺

	330	331	332	333	334	335	336	337
0	アパ ート	ギ ガ	サン チーム	ピ コ	ボン ド	ユア ン		
1	アル ファ	ギニ ー	シリ ング	ビル	ホー ル	リッ トル		
2	アン ペア	キュ リー	セン チ	ファ ラッド	ホー ン	リ ラ		
3	アー ル	ギル ダー	セン ト	ファイ ート	マイ クロ	ルビ ー		
4	イニ ング	キ ロ	ダー ス	ブッ シエル	マイ ル	ルー ブル		
5	イン チ	キロ グラム	デ シ	フラ ン	マッ ハ	レ ム		
6	ウオ ン	キロ メートル	ドル	ヘク タール	マル ク	レン トゲン		
7	エス ケード	キロ ワット	トン	ペ ン	マン ション	ワッ ト		
8	エー カー	グラ ム	ナ ノ	ペニ ヒ	ミク ロン			
9	オン ス	グラム トン	ノッ ト	ヘル ツ	ミ リ			
A	オー ム	クル ゼロ	ハイ ツ	ペン ス	ミリ バル			
B	カイ リ	クロ ーネ	パー セント	ペー ジ	メ ガ			平成
C	カラ ット	ケー ス	パー ツ	ペー タ	メガ トン			昭和
D	カロ リー	コル ナ	パー レル	ポイ ント	メー トル			大正
E	ガロ ン	コー ポ	ピア ストル	ボル ト	ヤー ド			明治
F	ガン マ	サイ クル	ピク ル	ホン	ヤー ル			株式 会社

## Squared Katakana words

3300	アパート	SQUARED APAATO	331A	クルゼイロ	SQUARED KURUZEIRO
		<i>apartment</i>			<i>cruzeiro (Brazilian currency)</i>
3301	アルファ	SQUARED ARUHUA	331B	クローネ	SQUARED KUROONE
		<i>alpha</i>			<i>krone</i>
3302	アンペア	SQUARED ANPEA	331C	ケース	SQUARED KEESU
		<i>ampere</i>			<i>case</i>
3303	アール	SQUARED AARU	331D	コルナ	SQUARED KORUNA
		<i>are (unit of area)</i>			<i>koruna (Czech currency)</i>
3304	インニング	SQUARED ININGU	331E	コーポ	SQUARED KOOPO
		<i>inning</i>			<i>co-op</i>
3305	インチ	SQUARED INTI	331F	サイクル	SQUARED SAIKURU
		<i>inch</i>			<i>cycle</i>
3306	ウォン	SQUARED UON	3320	サンチム	SQUARED SANTIIMU
		<i>won (Korean currency)</i>			<i>centime</i>
3307	エスクード	SQUARED ESUKUUDO	3321	シリング	SQUARED SIRINGU
		<i>escudo (Portuguese currency)</i>			<i>shilling</i>
3308	エーカー	SQUARED EEKAA	3322	センチ	SQUARED SENTI
		<i>acre</i>			<i>centi-</i>
3309	オンス	SQUARED ONSU	3323	セント	SQUARED SENTO
		<i>ounce</i>			<i>cent</i>
330A	オーム	SQUARED OOMU	3324	ダース	SQUARED DAASU
		<i>ohm</i>			<i>dozen</i>
330B	カイリ	SQUARED KAIRI	3325	デシ	SQUARED DESI
		<i>kai-ri: nautical mile</i>			<i>deci-</i>
330C	カラット	SQUARED KARATTO	3326	ドル	SQUARED DORU
		<i>carat</i>			<i>dollar</i>
330D	カロリー	SQUARED KARORII	3327	トン	SQUARED TON
		<i>calorie</i>			<i>ton</i>
330E	ガロン	SQUARED GARON	3328	ナノ	SQUARED NANO
		<i>gallon</i>			<i>nano-</i>
330F	ガンマ	SQUARED GANMA	3329	ノット	SQUARED NOTTO
		<i>gamma</i>			<i>knot, nautical mile</i>
3310	ギガ	SQUARED GIGA	332A	ハイツ	SQUARED HAITU
		<i>giga-</i>			<i>heights</i>
3311	ギニー	SQUARED GINII	332B	パーセント	SQUARED PAASENTO
		<i>guinea</i>			<i>percent</i>
3312	キュリー	SQUARED KYURII	332C	パーツ	SQUARED PAATU
		<i>curie</i>			<i>parts</i>
3313	ギルダー	SQUARED GIRUDAA	332D	バレル	SQUARED BAARERU
		<i>guilder</i>			<i>barrel</i>
3314	キロ	SQUARED KIRO	332E	ピアストル	SQUARED PIASUTORU
		<i>kilo-</i>			<i>piaster</i>
3315	キログラム	SQUARED KIROGURAMU	332F	ピクル	SQUARED PIKURU
		<i>kilogram</i>			<i>picul (unit of weight)</i>
3316	キロメートル	SQUARED KIROMEETORU	3330	ピコ	SQUARED PIKO
		<i>kilometer</i>			<i>pico-</i>
3317	キロワット	SQUARED KIROWATTO	3331	ビル	SQUARED BIRU
		<i>kilowatt</i>			<i>building</i>
3318	グラム	SQUARED GURAMU	3332	ファラッド	SQUARED HUARADDO
		<i>gram</i>			<i>farad</i>
3319	グラムトン	SQUARED GURAMUTON	3333	フィート	SQUARED HUIITO
		<i>gram ton</i>			<i>feet</i>

3334 ブッシュェル SQUARED BUSSYERU  
*bushel*

3335 フラン SQUARED HURAN  
*franc*

3336 ヘクタール SQUARED HEKUTAARU  
*hectare*

3337 ペソ SQUARED PESO  
*peso*

3338 ペニヒ SQUARED PENIHI  
*pfennig*

3339 ヘルツ SQUARED HERUTU  
*hertz*

333A ペンス SQUARED PENSU  
*pence*

333B ページ SQUARED PEEZI  
*page*

333C ベータ SQUARED BEETA  
*beta*

333D ポイント SQUARED POINTO  
*point*

333E ボルト SQUARED BORUTO  
*volt, bolt*

333F ホン SQUARED HON  
*hon: volume*

3340 ポンド SQUARED PONDO  
*pound*

3341 ホール SQUARED HOORU  
*hall*

3342 ホーン SQUARED HOON  
*horn*

3343 マイクロ SQUARED MAIKURO  
*micro-*

3344 マイル SQUARED MAIRU  
*mile*

3345 マッハ SQUARED MAHHA  
*mach*

3346 マルク SQUARED MARUKU  
*mark*

3347 マンション SQUARED MANSYON  
*mansion*

3348 ミクロン SQUARED MIKURON  
*micron*

3349 ミリ SQUARED MIRI  
*milli-*

334A ミリバル SQUARED MIRIBAARU  
*millibar*

334B メガ SQUARED MEGA  
*mega-*

334C メガトン SQUARED MEGATON  
*megaton*

334D メートル SQUARED MEETORU  
*meter*

334E ヤード SQUARED YAADO  
*yard*

334F ヤーランド SQUARED YAARU  
*yard*

3350 ユアン SQUARED YUAN  
*yuan (Chinese currency)*

3351 リットル SQUARED RITTORU  
*liter*

3352 リラ SQUARED RIRA  
*lira*

3353 ルピー SQUARED RUPII  
*rupee*

3354 ルブル SQUARED RUUBURU  
*ruble*

3355 レム SQUARED REMU  
*rem (unit of radiation)*

3356 レントゲン SQUARED RENTOGEN  
*roentgen*

3357 ワット SQUARED WATTO  
*watt*

3358

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335A

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337A

**Japanese era names**

337B 平成 SQUARED TWO IDEOGRAPHS ERA NAME  
HEISEI

337C 昭和 SQUARED TWO IDEOGRAPHS ERA NAME  
SYOUWA

337D 大正 SQUARED TWO IDEOGRAPHS ERA NAME  
TAISYOU

337E 明治 SQUARED TWO IDEOGRAPHS ERA NAME  
MEIZI

**Japanese corporation**

337F 株式会社 SQUARED FOUR IDEOGRAPHS  
CORPORATION  
= *kabusiki-gaisya*  
*incorporated*

	338	339	33A	33B	33C	33D	33E	33F
0	pA	Hz	cm <sup>2</sup>	ps	kΩ	lm		
1	nA	kHz	m <sup>2</sup>	ns	MΩ	ln		
2	μA	MHz	km <sup>2</sup>	μs	a.m.	log		
3	mA	GHz	mm <sup>3</sup>	ms	Bq	lx		
4	kA	THz	cm <sup>3</sup>	pV	cc	mb		
5	KB	μl	m <sup>3</sup>	nV	cd	mil		
6	MB	ml	km <sup>3</sup>	μV	C/kg	mol		
7	GB	dl	m/s	mV	Ca	PH		
8	cal	kl	m/s <sup>2</sup>	kV	dB	p.m.		
9	kcal	fm	Pa	MV	Gy	PPM		
A	pF	nm	kPa	pW	ha	PR		
B	nF	μm	MPa	nW	HP	sr		
C	μF	mm	GPa	μW	in	Sv		
D	μg	cm	rad	mW	KK	Wb		
E	mg	km	rad/s	kW	KM			
F	kg	mm <sup>2</sup>	rad/s <sup>1</sup>	MW	kt			



## Squared Latin abbreviations

3380	pA	SQUARED PA AMPS	33AD	rad	SQUARED RAD
3381	nA	SQUARED NA	33AE	rad/s	SQUARED RAD OVER S
3382	$\mu$ A	SQUARED MU A	33AF	rad/s <sup>2</sup>	SQUARED RAD OVER S SQUARED
3383	mA	SQUARED MA	33B0	ps	SQUARED PS
3384	kA	SQUARED KA	33B1	ns	SQUARED NS
3385	KB	SQUARED KB	33B2	$\mu$ s	SQUARED MU S
3386	MB	SQUARED MB	33B3	ms	SQUARED MS
3387	GB	SQUARED GB	33B4	pV	SQUARED PV
3388	cal	SQUARED CAL	33B5	nV	SQUARED NV
3389	kcal	SQUARED KCAL	33B6	$\mu$ V	SQUARED MU V
338A	pF	SQUARED PF	33B7	mV	SQUARED MV
338B	nF	SQUARED NF	33B8	kV	SQUARED KV
338C	$\mu$ F	SQUARED MU F	33B9	MV	SQUARED MV MEGA
338D	$\mu$ G	SQUARED MU G	33BA	pW	SQUARED PW
338E	mg	SQUARED MG	33BB	nW	SQUARED NW
338F	kg	SQUARED KG	33BC	$\mu$ W	SQUARED MU W
3390	Hz	SQUARED HZ	33BD	mW	SQUARED MW
3391	kHz	SQUARED KHZ	33BE	kW	SQUARED KW
3392	MHz	SQUARED MHZ	33BF	MW	SQUARED MW MEGA
3393	GHz	SQUARED GHZ	33C0	k $\Omega$	SQUARED K OHM
3394	THz	SQUARED THZ	33C1	M $\Omega$	SQUARED M OHM
3395	$\mu$ l	SQUARED MU L	33C2	a.m.	SQUARED AM
3396	ml	SQUARED ML	33C3	Bq	SQUARED BQ
3397	dl	SQUARED DL	33C4	cc	SQUARED CC
3398	kl	SQUARED KL	33C5	cd	SQUARED CD
3399	fm	SQUARED FM	33C6	C/kg	SQUARED C OVER KG
339A	nm	SQUARED NM	33C7	Co	SQUARED CO
339B	$\mu$ m	SQUARED MU M	33C8	dB	SQUARED DB
339C	mm	SQUARED MM	33C9	Gy	SQUARED GY
339D	cm	SQUARED CM	33CA	ha	SQUARED HA
339E	km	SQUARED KM	33CB	HP	SQUARED HP
339F	mm <sup>2</sup>	SQUARED MM SQUARED	33CC	in	SQUARED IN
33A0	cm <sup>2</sup>	SQUARED CM SQUARED	33CD	KK	SQUARED KK
33A1	m <sup>2</sup>	SQUARED M SQUARED	33CE	KM	SQUARED KM CAPITAL
33A2	km <sup>2</sup>	SQUARED KM SQUARED	33CF	kt	SQUARED KT
33A3	mm <sup>3</sup>	SQUARED MM CUBED	33D0	lm	SQUARED LM
33A4	cm <sup>3</sup>	SQUARED CM CUBED	33D1	ln	SQUARED LN
33A5	m <sup>3</sup>	SQUARED M CUBED	33D2	log	SQUARED LOG
33A6	km <sup>3</sup>	SQUARED KM CUBED	33D3	lx	SQUARED LX
33A7	m/s	SQUARED M OVER S	33D4	mb	SQUARED MB SMALL
33A8	m/s <sup>2</sup>	SQUARED M OVER S SQUARED	33D5	mil	SQUARED MIL
33A9	Pa	SQUARED PA	33D6	mol	SQUARED MOL
33AA	kPa	SQUARED KPA	33D7	PH	SQUARED PH
33AB	MPa	SQUARED MPA	33D8	p.m.	SQUARED PM
33AC	GPa	SQUARED GPA	33D9	PPM	SQUARED PPM
			33DA	PR	SQUARED PR





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



























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	FE3	FE4
0		
1		
2		
3		
4		
5		
6		
7		
8		
9		
A		
B		
C		
D		
E		
F		

**Glyphs for vertical variants**

FE30		GLYPH FOR VERTICAL TWO DOT LEADER
FE31		GLYPH FOR VERTICAL EM DASH
FE32		GLYPH FOR VERTICAL EN DASH
FE33		GLYPH FOR VERTICAL SPACING UNDERSCORE
FE34		GLYPH FOR VERTICAL SPACING WAVY UNDERSCORE
FE35		GLYPH FOR VERTICAL OPENING PARENTHESIS
FE36		GLYPH FOR VERTICAL CLOSING PARENTHESIS
FE37		GLYPH FOR VERTICAL OPENING CURLY BRACKET
FE38		GLYPH FOR VERTICAL CLOSING CURLY BRACKET
FE39		GLYPH FOR VERTICAL OPENING TORTOISE SHELL BRACKET
FE3A		GLYPH FOR VERTICAL CLOSING TORTOISE SHELL BRACKET
FE3B		GLYPH FOR VERTICAL OPENING BLACK LENTICULAR BRACKET
FE3C		GLYPH FOR VERTICAL CLOSING BLACK LENTICULAR BRACKET
FE3D		GLYPH FOR VERTICAL OPENING DOUBLE ANGLE BRACKET
FE3E		GLYPH FOR VERTICAL CLOSING DOUBLE ANGLE BRACKET
FE3F		GLYPH FOR VERTICAL OPENING ANGLE BRACKET
FE40		GLYPH FOR VERTICAL CLOSING ANGLE BRACKET
FE41		GLYPH FOR VERTICAL OPENING CORNER BRACKET
FE42		GLYPH FOR VERTICAL CLOSING CORNER BRACKET
FE43		GLYPH FOR VERTICAL OPENING WHITE CORNER BRACKET
FE44		GLYPH FOR VERTICAL CLOSING WHITE CORNER BRACKET

FE45  
FE46  
FE47  
FE48

**Overscores and underscores**

FE49		SPACING DASHED OVERSCORE
FE4A		SPACING CENTERLINE OVERSCORE
FE4B		SPACING WAVY OVERSCORE
FE4C		SPACING DOUBLE WAVY OVERSCORE
FE4D		SPACING DASHED UNDERSCORE

FE4E  
FE4F



SPACING CENTERLINE UNDERSCORE  
SPACING WAVY UNDERSCORE

	FE5	FE6
0	,	&
1	,	*
2	.	+
3		-
4	;	<
5	:	>
6	?	=
7	!	
8	-	\
9	(	\$
A	)	%
B	{	@
C	}	
D	(	
E	)	
F	#	



		Small variants			
FE50	,	SMALL COMMA			
FE51	,	SMALL IDEOGRAPHIC COMMA			
FE52	.	SMALL PERIOD			
FE53	.	× ( <i>middle dot</i> → 00B7)			
FE54	;	SMALL SEMICOLON			
FE55	:	SMALL COLON			
FE56	?	SMALL QUESTION MARK			
FE57	!	SMALL EXCLAMATION MARK			
FE58	—	SMALL EM DASH			
FE59	(	SMALL OPENING PARENTHESIS			
FE5A	)	SMALL CLOSING PARENTHESIS			
FE5B	{	SMALL OPENING CURLY BRACKET			
FE5C	}	SMALL CLOSING CURLY BRACKET			
FE5D	(	SMALL OPENING TORTOISE SHELL BRACKET			
FE5E	)	SMALL CLOSING TORTOISE SHELL BRACKET			
FE5F	#	SMALL NUMBER SIGN			
FE60	&	SMALL AMPERSAND			
FE61	*	SMALL ASTERISK			
FE62	+	SMALL PLUS SIGN			
FE63	-	SMALL HYPHEN-MINUS			
FE64	<	SMALL LESS-THAN SIGN			
FE65	>	SMALL GREATER-THAN SIGN			
FE66	=	SMALL EQUALS SIGN			
FE67	/	× ( <i>division slash</i> → 2215)			
FE68	\	SMALL BACKSLASH			
FE69	\$	SMALL DOLLAR SIGN			
FE6A	%	SMALL PERCENT SIGN			
FE6B	@	SMALL COMMERCIAL AT			










































	FE7	FE8	FE9	FEA	FEB	FEC	FED	FEE	FEF
0	◌ْ	ء	ب	ج	ز	ض	غ	ل	ى
1	◌َ	آ	هـ	ح	س	ط	ف	م	ي
2	◌ِ	أ	ب	ح	س	ط	ف	م	ي
3		أ	ة	ح	س	ط	ف	م	ي
4	◌ِ	أ	ة	ح	س	ط	ف	م	ي
5		ؤ	ت	خ	ش	ظ	ق	ن	لآ
6	◌ِ	ؤ	ت	خ	ش	ظ	ق	ن	لآ
7	◌ِ	أ	ة	ح	س	ط	ف	م	لأ
8	◌ِ	أ	ت	خ	ش	ظ	ق	ن	لأ
9	◌ِ	ئ	ث	د	ص	ع	ك	هـ	لأ
A	◌ِ	ر	ز	د	ص	ع	ك	هـ	لأ
B	◌ِ	ء	ث	ذ	ص	ع	ك	هـ	لا
C	◌ِ	ئ	ث	ذ	ص	ع	ك	هـ	لا
D	◌ِ	ا	ج	ر	ض	غ	ل	و	
E	◌ِ	ا	ج	ر	ض	غ	ل	و	
F	◌ِ	ب	ج	ز	ض	غ	ل	ى	Byte Order Mark

### Glyphs for spacing forms of Arabic points

FE70		ARABIC SPACING FATHATAN
FE71		ARABIC FATHATAN ON TATWEEL
FE72		ARABIC SPACING DAMMATAN
FE73		
FE74		ARABIC SPACING KASRATAN
FE75		
FE76		ARABIC SPACING FATHAH
FE77		ARABIC FATHAH ON TATWEEL
FE78		ARABIC SPACING DAMMAH
FE79		ARABIC DAMMAH ON TATWEEL
FE7A		ARABIC SPACING KASRAH
FE7B		ARABIC KASRAH ON TATWEEL
FE7C		ARABIC SPACING SHADDAH
FE7D		ARABIC SHADDAH ON TATWEEL
FE7E		ARABIC SPACING SUKUN
FE7F		ARABIC SUKUN ON TATWEEL


### Basic glyphs for Arabic language contextual forms

FE80		GLYPH FOR ISOLATE ARABIC HAMZAH
FE81		GLYPH FOR ISOLATE ARABIC MADDAH ON ALEF
FE82		GLYPH FOR FINAL ARABIC MADDAH ON ALEF
FE83		GLYPH FOR ISOLATE ARABIC HAMZAH ON ALEF
FE84		GLYPH FOR FINAL ARABIC HAMZAH ON ALEF
FE85		GLYPH FOR ISOLATE ARABIC HAMZAH ON WAW
FE86		GLYPH FOR FINAL ARABIC HAMZAH ON WAW
FE87		GLYPH FOR ISOLATE ARABIC HAMZAH UNDER ALEF
FE88		GLYPH FOR FINAL ARABIC HAMZAH UNDER ALEF
FE89		GLYPH FOR ISOLATE ARABIC HAMZAH ON YA
FE8A		GLYPH FOR INITIAL ARABIC HAMZAH ON YA
FE8B		GLYPH FOR MEDIAL ARABIC HAMZAH ON YA
FE8C		GLYPH FOR FINAL ARABIC HAMZAH ON YA
FE8D		GLYPH FOR ISOLATE ARABIC ALEF
FE8E		GLYPH FOR FINAL ARABIC ALEF
FE8F		GLYPH FOR ISOLATE ARABIC BAA
FE90		GLYPH FOR INITIAL ARABIC BAA

FE91		GLYPH FOR MEDIAL ARABIC BAA
FE92		GLYPH FOR FINAL ARABIC BAA
FE93		GLYPH FOR ISOLATE ARABIC TAA MARBUTAH
FE94		GLYPH FOR FINAL ARABIC TAA MARBUTAH
FE95		GLYPH FOR ISOLATE ARABIC TAA
FE96		GLYPH FOR INITIAL ARABIC TAA
FE97		GLYPH FOR MEDIAL ARABIC TAA
FE98		GLYPH FOR FINAL ARABIC TAA
FE99		GLYPH FOR ISOLATE ARABIC THAA
FE9A		GLYPH FOR INITIAL ARABIC THAA
FE9B		GLYPH FOR MEDIAL ARABIC THAA
FE9C		GLYPH FOR FINAL ARABIC THAA
FE9D		GLYPH FOR ISOLATE ARABIC JEEM
FE9E		GLYPH FOR INITIAL ARABIC JEEM
FE9F		GLYPH FOR MEDIAL ARABIC JEEM
FEA0		GLYPH FOR FINAL ARABIC JEEM
FEA1		GLYPH FOR ISOLATE ARABIC HAA
FEA2		GLYPH FOR INITIAL ARABIC HAA
FEA3		GLYPH FOR MEDIAL ARABIC HAA
FEA4		GLYPH FOR FINAL ARABIC HAA
FEA5		GLYPH FOR ISOLATE ARABIC KHAA
FEA6		GLYPH FOR INITIAL ARABIC KHAA
FEA7		GLYPH FOR MEDIAL ARABIC KHAA
FEA8		GLYPH FOR FINAL ARABIC KHAA
FEA9		GLYPH FOR ISOLATE ARABIC DAL
FEAA		GLYPH FOR FINAL ARABIC DAL
FEAB		GLYPH FOR ISOLATE ARABIC THAL
FEAC		GLYPH FOR FINAL ARABIC THAL
FEAD		GLYPH FOR ISOLATE ARABIC RA
FEAE		GLYPH FOR FINAL ARABIC RA
FEAF		GLYPH FOR ISOLATE ARABIC ZAIN
FEB0		GLYPH FOR FINAL ARABIC ZAIN
FEB1		GLYPH FOR ISOLATE ARABIC SEEN
FEB2		GLYPH FOR INITIAL ARABIC SEEN
FEB3		GLYPH FOR MEDIAL ARABIC SEEN
FEB4		GLYPH FOR FINAL ARABIC SEEN
FEB5		GLYPH FOR ISOLATE ARABIC SHEEN
FEB6		GLYPH FOR INITIAL ARABIC SHEEN
FEB7		GLYPH FOR MEDIAL ARABIC SHEEN
FEB8		GLYPH FOR FINAL ARABIC SHEEN
FEB9		GLYPH FOR ISOLATE ARABIC SAD
FEBA		GLYPH FOR INITIAL ARABIC SAD
FEBB		GLYPH FOR MEDIAL ARABIC SAD
FEBC		GLYPH FOR FINAL ARABIC SAD

FEBD	ض	GLYPH FOR ISOLATE ARABIC DAD	FEEB	ه	GLYPH FOR MEDIAL ARABIC HA
FEBE	ض	GLYPH FOR INITIAL ARABIC DAD	FEEC	ه	GLYPH FOR FINAL ARABIC HA
FEBF	ض	GLYPH FOR MEDIAL ARABIC DAD	FEED	و	GLYPH FOR ISOLATE ARABIC WAW
FEC0	ض	GLYPH FOR FINAL ARABIC DAD	FEED	و	GLYPH FOR FINAL ARABIC WAW
FEC1	ط	GLYPH FOR ISOLATE ARABIC TAH	FEFF	ى	GLYPH FOR ISOLATE ARABIC ALEF MAQSURAH
FEC2	ط	GLYPH FOR INITIAL ARABIC TAH	FEF0	ى	GLYPH FOR FINAL ARABIC ALEF MAQSURAH
FEC3	ط	GLYPH FOR MEDIAL ARABIC TAH	FEF1	ي	GLYPH FOR ISOLATE ARABIC YA
FEC4	ط	GLYPH FOR FINAL ARABIC TAH	FEF2	ي	GLYPH FOR INITIAL ARABIC YA
FEC5	ظ	GLYPH FOR ISOLATE ARABIC DHAH	FEF3	ي	GLYPH FOR MEDIAL ARABIC YA
FEC6	ظ	GLYPH FOR INITIAL ARABIC DHAH	FEF4	ي	GLYPH FOR FINAL ARABIC YA
FEC7	ظ	GLYPH FOR MEDIAL ARABIC DHAH	FEF5	لا	GLYPH FOR ISOLATE ARABIC MADDAH ON LIGATURE LAM ALEF
FEC8	ظ	GLYPH FOR FINAL ARABIC DHAH	FEF6	لا	GLYPH FOR FINAL ARABIC MADDAH ON LIGATURE LAM ALEF
FEC9	ع	GLYPH FOR ISOLATE ARABIC AIN	FEF7	ي	GLYPH FOR ISOLATE ARABIC HAMZAH ON LIGATURE LAM ALEF
FECA	ع	GLYPH FOR INITIAL ARABIC AIN	FEF8	ي	GLYPH FOR FINAL ARABIC HAMZAH ON LIGATURE LAM ALEF
FECE	ع	GLYPH FOR MEDIAL ARABIC AIN	FEF9	ي	GLYPH FOR ISOLATE ARABIC HAMZAH UNDER LIGATURE LAM ALEF
FECB	ع	GLYPH FOR FINAL ARABIC AIN	FEFA	ي	GLYPH FOR FINAL ARABIC HAMZAH UNDER LIGATURE LAM ALEF
FECF	ع	GLYPH FOR ISOLATE ARABIC GHAIN	FEFB	ي	GLYPH FOR ISOLATE ARABIC LIGATURE LAM ALEF
FED0	ع	GLYPH FOR INITIAL ARABIC GHAIN	FEFC	ي	GLYPH FOR FINAL ARABIC LIGATURE LAM ALEF
FED1	ع	GLYPH FOR MEDIAL ARABIC GHAIN	FEFD		
FED2	ف	GLYPH FOR ISOLATE ARABIC FA	FEFE		
FED3	ف	GLYPH FOR INITIAL ARABIC FA			
FED4	ف	GLYPH FOR MEDIAL ARABIC FA			
FED5	ف	GLYPH FOR FINAL ARABIC FA			
FED6	ق	GLYPH FOR ISOLATE ARABIC QAF			
FED7	ق	GLYPH FOR INITIAL ARABIC QAF			
FED8	ق	GLYPH FOR MEDIAL ARABIC QAF			
FED9	ق	GLYPH FOR FINAL ARABIC QAF			
FEDA	ك	GLYPH FOR ISOLATE ARABIC CAF			
FEDB	ك	GLYPH FOR INITIAL ARABIC CAF			
FEDC	ك	GLYPH FOR MEDIAL ARABIC CAF			
FEDD	ك	GLYPH FOR FINAL ARABIC CAF			
FEE0	ل	GLYPH FOR ISOLATE ARABIC LAM			
FEE1	ل	GLYPH FOR INITIAL ARABIC LAM			
FEE2	ل	GLYPH FOR MEDIAL ARABIC LAM			
FEE3	ل	GLYPH FOR FINAL ARABIC LAM			
FEE4	م	GLYPH FOR ISOLATE ARABIC MEEM			
FEE5	م	GLYPH FOR INITIAL ARABIC MEEM			
FEE6	م	GLYPH FOR MEDIAL ARABIC MEEM			
FEE7	م	GLYPH FOR FINAL ARABIC MEEM			
FEE8	ن	GLYPH FOR ISOLATE ARABIC NOON			
FEE9	ن	GLYPH FOR INITIAL ARABIC NOON			
FEFA	ن	GLYPH FOR MEDIAL ARABIC NOON			
FEFB	ن	GLYPH FOR FINAL ARABIC NOON			
FEFC	ه	GLYPH FOR ISOLATE ARABIC HA			
FEFD	ه	GLYPH FOR INITIAL ARABIC HA			
FEFE	ه	GLYPH FOR MEDIAL ARABIC HA			
FEFF	ه	GLYPH FOR FINAL ARABIC HA			

## Special

FEFF  **BYTE ORDER MARK**  
 = BOM  
*may be used to detect byte order by contrast with FFFE which is not a character*  
 × (not a character → FFFE)





	FF0	FF1	FF2	FF3	FF4	FF5	FF6	FF7
0		0	@	P	`	p		一
1	!	1	A	Q	a	q	。	ア
2	"	2	B	R	b	r	「	イ
3	#	3	C	S	c	s	」	ウ
4	\$\$	4	D	T	d	t	、	エ
5	%	5	E	U	e	u	・	オ
6	&	6	F	V	f	v	ヲ	カ
7	'	7	G	W	g	w	ア	キ
8	(	8	H	X	h	x	イ	ク
9	)	9	I	Y	i	y	ウ	ケ
A	*	:	J	Z	j	z	エ	コ
B	+	;	K	[	k	{	オ	サ
C	,	<	L	\	l		ヤ	シ
D	-	=	M	]	m	}	ユ	ス
E	.	>	N	^	n	~	ヨ	セ
F	/	?	O	_	o		ツ	ソ

	FF8	FF9	FFA	FFB	FFC	FFD	FFE
0	夕	ミ	ㄱ	ㄴ			ø
1	チ	ム	ㄱ	ㄴ			£
2	ツ	メ	ㄱ	ㄴ	ト	ㄴ	ㄱ
3	テ	モ	ㄱ	ㄴ	ㄴ	ㄴ	ㄴ
4	ト	ヤ	ㄱ	ㄴ	ㄴ	ㄴ	!
5	ナ	ユ	ㄱ	ㄴ	ㄴ	ㄴ	¥ ¥
6	ニ	ヨ	ㄱ	ㄴ	ㄴ	ㄴ	₩
7	ヌ	ラ	ㄱ	ㄴ	ㄴ	ㄴ	
8	ネ	リ	ㄱ	ㄴ			
9	ノ	ル	ㄱ	ㄴ			
A	ハ	レ	ㄱ	ㄴ	ㄴ	ㄴ	
B	ヒ	ロ	ㄱ	ㄴ	ㄴ	ㄴ	
C	フ	ワ	ㄱ	ㄴ	ㄴ	ㄴ	
D	ヘ	ン	ㄱ	ㄴ	ㄴ		
E	ホ	゜	ㄱ	ㄴ	ㄴ		
F	マ	。°	ㄱ		ㄴ		



Fullwidth ASCII variants				
FF00			FF2D	<b>M</b> FULLWIDTH LATIN CAPITAL LETTER M
FF01	!	FULLWIDTH EXCLAMATION MARK	FF2E	<b>N</b> FULLWIDTH LATIN CAPITAL LETTER N
FF02	"	FULLWIDTH QUOTATION MARK	FF2F	<b>O</b> FULLWIDTH LATIN CAPITAL LETTER O
FF03	#	FULLWIDTH NUMBER SIGN	FF30	<b>P</b> FULLWIDTH LATIN CAPITAL LETTER P
FF04	\$	FULLWIDTH DOLLAR SIGN	FF31	<b>Q</b> FULLWIDTH LATIN CAPITAL LETTER Q
FF05	%	FULLWIDTH PERCENT SIGN	FF32	<b>R</b> FULLWIDTH LATIN CAPITAL LETTER R
FF06	&	FULLWIDTH AMPERSAND	FF33	<b>S</b> FULLWIDTH LATIN CAPITAL LETTER S
FF07	'	FULLWIDTH APOSTROPHE	FF34	<b>T</b> FULLWIDTH LATIN CAPITAL LETTER T
FF08	(	FULLWIDTH OPENING PARENTHESIS	FF35	<b>U</b> FULLWIDTH LATIN CAPITAL LETTER U
FF09	)	FULLWIDTH CLOSING PARENTHESIS	FF36	<b>V</b> FULLWIDTH LATIN CAPITAL LETTER V
FF0A	*	FULLWIDTH ASTERISK	FF37	<b>W</b> FULLWIDTH LATIN CAPITAL LETTER W
FF0B	+	FULLWIDTH PLUS SIGN	FF38	<b>X</b> FULLWIDTH LATIN CAPITAL LETTER X
FF0C	,	FULLWIDTH COMMA	FF39	<b>Y</b> FULLWIDTH LATIN CAPITAL LETTER Y
FF0D	-	FULLWIDTH HYPHEN-MINUS	FF3A	<b>Z</b> FULLWIDTH LATIN CAPITAL LETTER Z
FF0E	.	FULLWIDTH PERIOD	FF3B	[ FULLWIDTH OPENING SQUARE BRACKET
FF0F	/	FULLWIDTH SLASH	FF3C	\ FULLWIDTH BACKSLASH
FF10	0	FULLWIDTH DIGIT ZERO	FF3D	] FULLWIDTH CLOSING SQUARE BRACKET
FF11	1	FULLWIDTH DIGIT ONE	FF3E	^ FULLWIDTH SPACING CIRCUMFLEX
FF12	2	FULLWIDTH DIGIT TWO	FF3F	~ FULLWIDTH SPACING UNDERScore
FF13	3	FULLWIDTH DIGIT THREE	FF40	˘ FULLWIDTH SPACING GRAVE
FF14	4	FULLWIDTH DIGIT FOUR	FF41	a FULLWIDTH LATIN SMALL LETTER A
FF15	5	FULLWIDTH DIGIT FIVE	FF42	b FULLWIDTH LATIN SMALL LETTER B
FF16	6	FULLWIDTH DIGIT SIX	FF43	c FULLWIDTH LATIN SMALL LETTER C
FF17	7	FULLWIDTH DIGIT SEVEN	FF44	d FULLWIDTH LATIN SMALL LETTER D
FF18	8	FULLWIDTH DIGIT EIGHT	FF45	e FULLWIDTH LATIN SMALL LETTER E
FF19	9	FULLWIDTH DIGIT NINE	FF46	f FULLWIDTH LATIN SMALL LETTER F
FF1A	:	FULLWIDTH COLON	FF47	g FULLWIDTH LATIN SMALL LETTER G
FF1B	;	FULLWIDTH SEMICOLON	FF48	h FULLWIDTH LATIN SMALL LETTER H
FF1C	<	FULLWIDTH LESS-THAN SIGN	FF49	i FULLWIDTH LATIN SMALL LETTER I
FF1D	=	FULLWIDTH EQUALS SIGN	FF4A	j FULLWIDTH LATIN SMALL LETTER J
FF1E	>	FULLWIDTH GREATER-THAN SIGN	FF4B	k FULLWIDTH LATIN SMALL LETTER K
FF1F	?	FULLWIDTH QUESTION MARK	FF4C	l FULLWIDTH LATIN SMALL LETTER L
FF20	@	FULLWIDTH COMMERCIAL AT	FF4D	m FULLWIDTH LATIN SMALL LETTER M
FF21	A	FULLWIDTH LATIN CAPITAL LETTER A	FF4E	n FULLWIDTH LATIN SMALL LETTER N
FF22	B	FULLWIDTH LATIN CAPITAL LETTER B	FF4F	o FULLWIDTH LATIN SMALL LETTER O
FF23	C	FULLWIDTH LATIN CAPITAL LETTER C	FF50	p FULLWIDTH LATIN SMALL LETTER P
FF24	D	FULLWIDTH LATIN CAPITAL LETTER D	FF51	q FULLWIDTH LATIN SMALL LETTER Q
FF25	E	FULLWIDTH LATIN CAPITAL LETTER E	FF52	r FULLWIDTH LATIN SMALL LETTER R
FF26	F	FULLWIDTH LATIN CAPITAL LETTER F	FF53	s FULLWIDTH LATIN SMALL LETTER S
FF27	G	FULLWIDTH LATIN CAPITAL LETTER G	FF54	t FULLWIDTH LATIN SMALL LETTER T
FF28	H	FULLWIDTH LATIN CAPITAL LETTER H	FF55	u FULLWIDTH LATIN SMALL LETTER U
FF29	I	FULLWIDTH LATIN CAPITAL LETTER I	FF56	v FULLWIDTH LATIN SMALL LETTER V
FF2A	J	FULLWIDTH LATIN CAPITAL LETTER J	FF57	w FULLWIDTH LATIN SMALL LETTER W
FF2B	K	FULLWIDTH LATIN CAPITAL LETTER K	FF58	x FULLWIDTH LATIN SMALL LETTER X
FF2C	L	FULLWIDTH LATIN CAPITAL LETTER L	FF59	y FULLWIDTH LATIN SMALL LETTER Y
			FF5A	z FULLWIDTH LATIN SMALL LETTER Z

FF5B	{	FULLWIDTH OPENING CURLY BRACKET
FF5C		FULLWIDTH VERTICAL BAR
FF5D	}	FULLWIDTH CLOSING CURLY BRACKET
FF5E	~	FULLWIDTH SPACING TILDE
FF5F		

## Halfwidth Katakana variants

FF60		
FF61	。	HALFWIDTH IDEOGRAPHIC PERIOD
FF62	「	HALFWIDTH OPENING CORNER BRACKET
FF63	」	HALFWIDTH CLOSING CORNER BRACKET
FF64	、	HALFWIDTH IDEOGRAPHIC COMMA
FF65	・	HALFWIDTH KATAKANA MIDDLE DOT
FF66	ワ	HALFWIDTH KATAKANA LETTER WO
FF67	ア	HALFWIDTH KATAKANA LETTER SMALL A
FF68	イ	HALFWIDTH KATAKANA LETTER SMALL I
FF69	ウ	HALFWIDTH KATAKANA LETTER SMALL U
FF6A	エ	HALFWIDTH KATAKANA LETTER SMALL E
FF6B	オ	HALFWIDTH KATAKANA LETTER SMALL O
FF6C	ヤ	HALFWIDTH KATAKANA LETTER SMALL YA
FF6D	ユ	HALFWIDTH KATAKANA LETTER SMALL YU
FF6E	ヨ	HALFWIDTH KATAKANA LETTER SMALL YO
FF6F	ツ	HALFWIDTH KATAKANA LETTER SMALL TU
FF70	ー	HALFWIDTH KATAKANA-HIRAGANA PROLONGED SOUND MARK
FF71	ア	HALFWIDTH KATAKANA LETTER A
FF72	イ	HALFWIDTH KATAKANA LETTER I
FF73	ウ	HALFWIDTH KATAKANA LETTER U
FF74	エ	HALFWIDTH KATAKANA LETTER E
FF75	オ	HALFWIDTH KATAKANA LETTER O
FF76	カ	HALFWIDTH KATAKANA LETTER KA
FF77	キ	HALFWIDTH KATAKANA LETTER KI
FF78	ク	HALFWIDTH KATAKANA LETTER KU
FF79	ケ	HALFWIDTH KATAKANA LETTER KE
FF7A	コ	HALFWIDTH KATAKANA LETTER KO
FF7B	サ	HALFWIDTH KATAKANA LETTER SA
FF7C	シ	HALFWIDTH KATAKANA LETTER SI
FF7D	ス	HALFWIDTH KATAKANA LETTER SU
FF7E	セ	HALFWIDTH KATAKANA LETTER SE
FF7F	ソ	HALFWIDTH KATAKANA LETTER SO
FF80	タ	HALFWIDTH KATAKANA LETTER TA
FF81	チ	HALFWIDTH KATAKANA LETTER TI
FF82	ツ	HALFWIDTH KATAKANA LETTER TU
FF83	テ	HALFWIDTH KATAKANA LETTER TE

FF84	ト	HALFWIDTH KATAKANA LETTER TO
FF85	ナ	HALFWIDTH KATAKANA LETTER NA
FF86	ニ	HALFWIDTH KATAKANA LETTER NI
FF87	ヌ	HALFWIDTH KATAKANA LETTER NU
FF88	ネ	HALFWIDTH KATAKANA LETTER NE
FF89	ノ	HALFWIDTH KATAKANA LETTER NO
FF8A	ハ	HALFWIDTH KATAKANA LETTER HA
FF8B	ヒ	HALFWIDTH KATAKANA LETTER HI
FF8C	フ	HALFWIDTH KATAKANA LETTER HU
FF8D	ヘ	HALFWIDTH KATAKANA LETTER HE
FF8E	ホ	HALFWIDTH KATAKANA LETTER HO
FF8F	マ	HALFWIDTH KATAKANA LETTER MA
FF90	ミ	HALFWIDTH KATAKANA LETTER MI
FF91	ム	HALFWIDTH KATAKANA LETTER MU
FF92	メ	HALFWIDTH KATAKANA LETTER ME
FF93	モ	HALFWIDTH KATAKANA LETTER MO
FF94	ヤ	HALFWIDTH KATAKANA LETTER YA
FF95	ユ	HALFWIDTH KATAKANA LETTER YU
FF96	ヨ	HALFWIDTH KATAKANA LETTER YO
FF97	ラ	HALFWIDTH KATAKANA LETTER RA
FF98	リ	HALFWIDTH KATAKANA LETTER RI
FF99	ル	HALFWIDTH KATAKANA LETTER RU
FF9A	レ	HALFWIDTH KATAKANA LETTER RE
FF9B	ロ	HALFWIDTH KATAKANA LETTER RO
FF9C	ワ	HALFWIDTH KATAKANA LETTER WA
FF9D	ン	HALFWIDTH KATAKANA LETTER N
FF9E	ヽ	HALFWIDTH KATAKANA VOICED SOUND MARK
FF9F	◌◌	HALFWIDTH KATAKANA SEMI-VOICED SOUND MARK

## Halfwidth Hangul variants

FFA0	ㄱ	HALFWIDTH HANGUL CAE OM
FFA1	ㄴ	HALFWIDTH HANGUL LETTER GIYEOG
FFA2	ㄷ	HALFWIDTH HANGUL LETTER SSANG GIYEOG
FFA3	ㄹ	HALFWIDTH HANGUL LETTER GIYEOG SIOS
FFA4	ㄷ	HALFWIDTH HANGUL LETTER NIEUN
FFA5	ㅅ	HALFWIDTH HANGUL LETTER NIEUN JIEUJ
FFA6	ㅆ	HALFWIDTH HANGUL LETTER NIEUN HIEUH
FFA7	ㅈ	HALFWIDTH HANGUL LETTER DIGEUD
FFA8	ㅊ	HALFWIDTH HANGUL LETTER SSANG DIGEUD
FFA9	ㅌ	HALFWIDTH HANGUL LETTER LIEUL
FFAA	ㅍ	HALFWIDTH HANGUL LETTER LIEUL GIYEOG

FFAB		HALFWIDTH HANGUL LETTER LIEUL MIEUM
FFAC		HALFWIDTH HANGUL LETTER LIEUL BIEUB
FFAD		HALFWIDTH HANGUL LETTER LIEUL SIOS
FFAE		HALFWIDTH HANGUL LETTER LIEUL TIEUT
FFAF		HALFWIDTH HANGUL LETTER LIEUL PIEUP
FFB0		HALFWIDTH HANGUL LETTER LIEUL HIEUH
FFB1		HALFWIDTH HANGUL LETTER MIEUM
FFB2		HALFWIDTH HANGUL LETTER BIEUB
FFB3		HALFWIDTH HANGUL LETTER SSANG BIEUB
FFB4		HALFWIDTH HANGUL LETTER BIEUB SIOS
FFB5		HALFWIDTH HANGUL LETTER SIOS
FFB6		HALFWIDTH HANGUL LETTER SSANG SIOS
FFB7		HALFWIDTH HANGUL LETTER IEUNG
FFB8		HALFWIDTH HANGUL LETTER JIEUJ
FFB9		HALFWIDTH HANGUL LETTER SSANG JIEUJ
FFBA		HALFWIDTH HANGUL LETTER CIEUC
FFBB		HALFWIDTH HANGUL LETTER KIYEOK
FFBC		HALFWIDTH HANGUL LETTER TIEUT
FFBD		HALFWIDTH HANGUL LETTER PIEUP
FFBE		HALFWIDTH HANGUL LETTER HIEUH
FFBF		
FFC0		
FFC1		
FFC2		HALFWIDTH HANGUL LETTER A
FFC3		HALFWIDTH HANGUL LETTER AE
FFC4		HALFWIDTH HANGUL LETTER YA
FFC5		HALFWIDTH HANGUL LETTER YAE
FFC6		HALFWIDTH HANGUL LETTER EO
FFC7		HALFWIDTH HANGUL LETTER E
FFC8		
FFC9		
FFCA		HALFWIDTH HANGUL LETTER YEO
FFCB		HALFWIDTH HANGUL LETTER YE
FFCC		HALFWIDTH HANGUL LETTER O
FFCD		HALFWIDTH HANGUL LETTER WA
FFCE		HALFWIDTH HANGUL LETTER WAE
FFCF		HALFWIDTH HANGUL LETTER OE
FFD0		
FFD1		
FFD2		HALFWIDTH HANGUL LETTER YO
FFD3		HALFWIDTH HANGUL LETTER U
FFD4		HALFWIDTH HANGUL LETTER WEO
FFD5		HALFWIDTH HANGUL LETTER WE
FFD6		HALFWIDTH HANGUL LETTER WI

FFD7		HALFWIDTH HANGUL LETTER YU
FFD8		
FFD9		
FFDA		HALFWIDTH HANGUL LETTER EU
FFDB		HALFWIDTH HANGUL LETTER YI
FFDC		HALFWIDTH HANGUL LETTER I
FFDD		
FFDE		
FFDF		

## Fullwidth symbol variants

FFE0		FULLWIDTH CENT SIGN
FFE1		FULLWIDTH POUND SIGN
FFE2		FULLWIDTH NOT SIGN
FFE3		FULLWIDTH SPACING MACRON
FFE4		FULLWIDTH BROKEN VERTICAL BAR
FFE5		FULLWIDTH YEN SIGN
FFE6		FULLWIDTH WON SIGN



FFF0

Special

FFFF

	FFF
0	
1	
2	
3	
4	
5	
6	
7	
8	
9	
A	
B	
C	
D	
E	
F	

## Special

FFF0  
 FFF1  
 FFF2  
 FFF3  
 FFF4  
 FFF5  
 FFF6  
 FFF7  
 FFF8  
 FFF9  
 FFFA  
 FFFB  
 FFFC  
 FFFD



**REPLACEMENT CHARACTER**  
*used to replace incoming characters  
 whose values are unknown or  
 unrepresentable in Unicode*  
 × (substitute → 001A)

Not character codes

FFFE **NOT A CHARACTER**  
*the value FFFE is guaranteed not to be  
 a Unicode character at all  
 may be used to detect byte order by  
 contrast with FEFF which is a character*  
 × (byte order mark → FEFF)

FFFF **NOT A CHARACTER**  
*the value FFFF is guaranteed not to be  
 a Unicode character at all*



