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

























## C0 Controls and Basic Latin








007F

	000	001	002	003	004	005	006	007
0	<b>NUL</b> 0000	<b>DLE</b> 0010	<b>SP</b> 0020	<b>0</b> 0030	<b>@</b> 0040	<b>P</b> 0050	<b>`</b> 0060	<b>p</b> 0070
1	<b>SOH</b> 0001	<b>DC1</b> 0011	<b>!</b> 0021	<b>1</b> 0031	<b>A</b> 0041	<b>Q</b> 0051	<b>a</b> 0061	<b>q</b> 0071
2	<b>STX</b> 0002	<b>DC2</b> 0012	<b>"</b> 0022	<b>2</b> 0032	<b>B</b> 0042	<b>R</b> 0052	<b>b</b> 0062	<b>r</b> 0072
3	<b>ETX</b> 0003	<b>DC3</b> 0013	<b>#</b> 0023	<b>3</b> 0033	<b>C</b> 0043	<b>S</b> 0053	<b>c</b> 0063	<b>s</b> 0073
4	<b>EOT</b> 0004	<b>DC4</b> 0014	<b>\$</b> 0024	<b>4</b> 0034	<b>D</b> 0044	<b>T</b> 0054	<b>d</b> 0064	<b>t</b> 0074
5	<b>ENQ</b> 0005	<b>NAK</b> 0015	<b>%</b> 0025	<b>5</b> 0035	<b>E</b> 0045	<b>U</b> 0055	<b>e</b> 0065	<b>u</b> 0075
6	<b>ACK</b> 0006	<b>SYN</b> 0016	<b>&amp;</b> 0026	<b>6</b> 0036	<b>F</b> 0046	<b>V</b> 0056	<b>f</b> 0066	<b>v</b> 0076
7	<b>BEL</b> 0007	<b>ETB</b> 0017	<b>'</b> 0027	<b>7</b> 0037	<b>G</b> 0047	<b>W</b> 0057	<b>g</b> 0067	<b>w</b> 0077
8	<b>BS</b> 0008	<b>CAN</b> 0018	<b>(</b> 0028	<b>8</b> 0038	<b>H</b> 0048	<b>X</b> 0058	<b>h</b> 0068	<b>x</b> 0078
9	<b>HT</b> 0009	<b>EM</b> 0019	<b>)</b> 0029	<b>9</b> 0039	<b>I</b> 0049	<b>Y</b> 0059	<b>i</b> 0069	<b>y</b> 0079
A	<b>LF</b> 000A	<b>SUB</b> 001A	<b>*</b> 002A	<b>:</b> 003A	<b>J</b> 004A	<b>Z</b> 005A	<b>j</b> 006A	<b>z</b> 007A
B	<b>VT</b> 000B	<b>ESC</b> 001B	<b>+</b> 002B	<b>;</b> 003B	<b>K</b> 004B	<b>[</b> 005B	<b>k</b> 006B	<b>{</b> 007B
C	<b>FF</b> 000C	<b>FS</b> 001C	<b>,</b> 002C	<b>&lt;</b> 003C	<b>L</b> 004C	<b>\</b> 005C	<b>l</b> 006C	<b> </b> 007C
D	<b>CR</b> 000D	<b>GS</b> 001D	<b>-</b> 002D	<b>=</b> 003D	<b>M</b> 004D	<b>]</b> 005D	<b>m</b> 006D	<b>}</b> 007D
E	<b>SO</b> 000E	<b>RS</b> 001E	<b>.</b> 002E	<b>&gt;</b> 003E	<b>N</b> 004E	<b>^</b> 005E	<b>n</b> 006E	<b>~</b> 007E
F	<b>SI</b> 000F	<b>US</b> 001F	<b>/</b> 002F	<b>?</b> 003F	<b>O</b> 004F	<b>_</b> 005F	<b>o</b> 006F	<b>DEL</b> 007F

**C0 controls**









*Alias names are those for ISO/IEC 6429:1992. Commonly used alternative aliases are also shown.*

0000		<b>&lt;control&gt;</b> = NULL
0001		<b>&lt;control&gt;</b> = START OF HEADING
0002		<b>&lt;control&gt;</b> = START OF TEXT
0003		<b>&lt;control&gt;</b> = END OF TEXT
0004		<b>&lt;control&gt;</b> = END OF TRANSMISSION
0005		<b>&lt;control&gt;</b> = ENQUIRY
0006		<b>&lt;control&gt;</b> = ACKNOWLEDGE
0007		<b>&lt;control&gt;</b> = BELL
0008		<b>&lt;control&gt;</b> = BACKSPACE
0009		<b>&lt;control&gt;</b> = CHARACTER TABULATION = horizontal tabulation (HT), tab
000A		<b>&lt;control&gt;</b> = LINE FEED (LF) = new line (NL), end of line (EOL)
000B		<b>&lt;control&gt;</b> = LINE TABULATION = vertical tabulation (VT)
000C		<b>&lt;control&gt;</b> = FORM FEED (FF)
000D		<b>&lt;control&gt;</b> = CARRIAGE RETURN (CR)
000E		<b>&lt;control&gt;</b> = SHIFT OUT • known as LOCKING-SHIFT ONE in 8-bit environments
000F		<b>&lt;control&gt;</b> = SHIFT IN • known as LOCKING-SHIFT ZERO in 8-bit environments
0010		<b>&lt;control&gt;</b> = DATA LINK ESCAPE
0011		<b>&lt;control&gt;</b> = DEVICE CONTROL ONE
0012		<b>&lt;control&gt;</b> = DEVICE CONTROL TWO
0013		<b>&lt;control&gt;</b> = DEVICE CONTROL THREE
0014		<b>&lt;control&gt;</b> = DEVICE CONTROL FOUR
0015		<b>&lt;control&gt;</b> = NEGATIVE ACKNOWLEDGE
0016		<b>&lt;control&gt;</b> = SYNCHRONOUS IDLE
0017		<b>&lt;control&gt;</b> = END OF TRANSMISSION BLOCK
0018		<b>&lt;control&gt;</b> = CANCEL
0019		<b>&lt;control&gt;</b> = END OF MEDIUM

001A		<b>&lt;control&gt;</b> = SUBSTITUTE → FFFD  replacement character
001B		<b>&lt;control&gt;</b> = ESCAPE
001C		<b>&lt;control&gt;</b> = INFORMATION SEPARATOR FOUR = file separator (FS)
001D		<b>&lt;control&gt;</b> = INFORMATION SEPARATOR THREE = group separator (GS)
001E		<b>&lt;control&gt;</b> = INFORMATION SEPARATOR TWO = record separator (RS)
001F		<b>&lt;control&gt;</b> = INFORMATION SEPARATOR ONE = unit separator (US)

**ASCII punctuation and symbols**

*Based on ISO/IEC 646.*

0020		<b>SPACE</b> • sometimes considered a control code • other space characters: 2000  — 200A  → 00A0  no-break space → 200B  zero width space → 2060  word joiner → 3000  ideographic space → FEFF  zero width no-break space
0021	!	<b>EXCLAMATION MARK</b> = factorial = bang → 00A1 ¡ inverted exclamation mark → 01C3 ! latin letter retroflex click → 203C !! double exclamation mark → 203D ? interrobang → 2762 Ͳ heavy exclamation mark ornament
0022	"	<b>QUOTATION MARK</b> • neutral (vertical), used as opening or closing quotation mark • preferred characters in English for paired quotation marks are 201C “ & 201D ” → 02BA " modifier letter double prime → 030B ͡ combining double acute accent → 030E ͠ combining double vertical line above → 2033 " double prime → 3003 " ditto mark
0023	#	<b>NUMBER SIGN</b> = pound sign, hash, crosshatch, octothorpe → 2114 ₣ l b bar symbol → 266F ₯ music sharp sign
0024	\$	<b>DOLLAR SIGN</b> = milreis, escudo • glyph may have one or two vertical bars • other currency symbol characters: 20A0 ₧ — 20B5 ₧ → 00A4 ₭ currency sign

0025	%	<b>PERCENT SIGN</b> → 066A ٪ arabic percent sign → 2030 ‰ per mille sign → 2031 ‰ per ten thousand sign → 2052 ⅈ commercial minus sign
0026	&	<b>AMPERSAND</b> → 204A Ɂ tironian sign et → 214B ɂ turned ampersand
0027	'	<b>APOSTROPHE</b> = apostrophe-quote (1.0) = APL quote • neutral (vertical) glyph with mixed usage • 2019 ’ is preferred for apostrophe • preferred characters in English for paired quotation marks are 2018 ‘ & 2019 ’ → 02B9 ’ modifier letter prime → 02BC ’ modifier letter apostrophe → 02C8 ' modifier letter vertical line → 0301 ́ combining acute accent → 2032 ’ prime → A78C ' latin small letter saltillo
0028	(	<b>LEFT PARENTHESIS</b> = opening parenthesis (1.0)
0029	)	<b>RIGHT PARENTHESIS</b> = closing parenthesis (1.0) • see discussion on semantics of paired bracketing characters
002A	*	<b>ASTERISK</b> = star (on phone keypads) → 066D * arabic five pointed star → 204E * low asterisk → 2217 * asterisk operator → 26B9 * sextile → 2731 * heavy asterisk
002B	+	<b>PLUS SIGN</b>
002C	,	<b>COMMA</b> = decimal separator → 060C ٫ arabic comma → 201A ٫ single low-9 quotation mark → 3001 、 ideographic comma
002D	-	<b>HYPHEN-MINUS</b> = hyphen or minus sign • used for either hyphen or minus sign → 2010 - hyphen → 2011 ⎯ non-breaking hyphen → 2012 — figure dash → 2013 — en dash → 2212 — minus sign → 10191 — roman uncia sign
002E	.	<b>FULL STOP</b> = period, dot, decimal point • may be rendered as a raised decimal point in old style numbers → 06D4 ٫ arabic full stop → 3002 ｡ ideographic full stop

002F	/	<b>SOLIDUS</b> = slash, virgule → 01C0 l latin letter dental click → 0338 ⁄ combining long solidus overlay → 2044 ⁄ fraction slash → 2215 ⁄ division slash
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**ASCII digits**

0030	0	<b>DIGIT ZERO</b>
0031	1	<b>DIGIT ONE</b>
0032	2	<b>DIGIT TWO</b>
0033	3	<b>DIGIT THREE</b>
0034	4	<b>DIGIT FOUR</b>
0035	5	<b>DIGIT FIVE</b>
0036	6	<b>DIGIT SIX</b>
0037	7	<b>DIGIT SEVEN</b>
0038	8	<b>DIGIT EIGHT</b>
0039	9	<b>DIGIT NINE</b>

**ASCII punctuation and symbols**

003A	:	<b>COLON</b> → 0589 ։ armenian full stop → 05C3 ։ hebrew punctuation sof pasuq → 2236 ։ ratio → A789 ։ modifier letter colon
003B	;	<b>SEMICOLON</b> • this, and not 037E ；, is the preferred character for 'Greek question mark' → 037E ； greek question mark → 061B ； arabic semicolon → 204F ； reversed semicolon
003C	<	<b>LESS-THAN SIGN</b> → 2039 ‹ single left-pointing angle quotation mark → 2329 ‹ left-pointing angle bracket → 27E8 ‹ mathematical left angle bracket → 3008 ‹ left angle bracket
003D	=	<b>EQUALS SIGN</b> • other related characters: 2241 ≠ —2263 ≡ → 2260 ≠ not equal to → 2261 ≡ identical to → A78A = modifier letter short equals sign → 10190 = roman sextans sign
003E	>	<b>GREATER-THAN SIGN</b> → 203A › single right-pointing angle quotation mark → 232A › right-pointing angle bracket → 27E9 › mathematical right angle bracket → 3009 › right angle bracket
003F	?	<b>QUESTION MARK</b> → 00BF ？ inverted question mark → 037E ； greek question mark → 061F ？ arabic question mark → 203D ？ interrobang → 2048 ？! question exclamation mark → 2049 ！? exclamation question mark
0040	@	<b>COMMERCIAL AT</b> = at sign

**Uppercase Latin alphabet**

0041	A	LATIN CAPITAL LETTER A
0042	B	LATIN CAPITAL LETTER B
		→ 212C <i>ℬ</i> script capital b
0043	C	LATIN CAPITAL LETTER C
		→ 2102 <i>℄</i> double-struck capital c
		→ 212D <i>℄</i> black-letter capital c
0044	D	LATIN CAPITAL LETTER D
0045	E	LATIN CAPITAL LETTER E
		→ 2107 <i>ℰ</i> euler constant
		→ 2130 <i>ℰ</i> script capital e
0046	F	LATIN CAPITAL LETTER F
		→ 2131 <i>ℱ</i> script capital f
		→ 2132 <i>ℱ</i> turned capital f
0047	G	LATIN CAPITAL LETTER G
0048	H	LATIN CAPITAL LETTER H
		→ 210B <i>ℋ</i> script capital h
		→ 210C <i>ℋ</i> black-letter capital h
		→ 210D <i>ℋ</i> double-struck capital h
0049	I	LATIN CAPITAL LETTER I
		• Turkish and Azerbaijani use 0131 <i>İ</i> for lowercase
		→ 0130 <i>İ</i> latin capital letter i with dot above
		→ 0406 <i>І</i> cyrillic capital letter byelorussian-ukrainian i
		→ 04C0 <i>І</i> cyrillic letter palochka
		→ 2110 <i>ℐ</i> script capital i
		→ 2111 <i>ℐ</i> black-letter capital i
		→ 2160 <i>I</i> roman numeral one
004A	J	LATIN CAPITAL LETTER J
004B	K	LATIN CAPITAL LETTER K
		→ 212A <i>℔</i> kelvin sign
004C	L	LATIN CAPITAL LETTER L
		→ 2112 <i>ℒ</i> script capital l
004D	M	LATIN CAPITAL LETTER M
		→ 2133 <i>ℳ</i> script capital m
004E	N	LATIN CAPITAL LETTER N
		→ 2115 <i>ℕ</i> double-struck capital n
004F	O	LATIN CAPITAL LETTER O
0050	P	LATIN CAPITAL LETTER P
		→ 2119 <i>ℙ</i> double-struck capital p
0051	Q	LATIN CAPITAL LETTER Q
		→ 211A <i>ℚ</i> double-struck capital q
0052	R	LATIN CAPITAL LETTER R
		→ 211B <i>℞</i> script capital r
		→ 211C <i>℞</i> black-letter capital r
		→ 211D <i>℞</i> double-struck capital r
0053	S	LATIN CAPITAL LETTER S
0054	T	LATIN CAPITAL LETTER T
0055	U	LATIN CAPITAL LETTER U
0056	V	LATIN CAPITAL LETTER V
		→ 2164 <i>V</i> roman numeral five
0057	W	LATIN CAPITAL LETTER W
0058	X	LATIN CAPITAL LETTER X
0059	Y	LATIN CAPITAL LETTER Y
005A	Z	LATIN CAPITAL LETTER Z
		→ 2124 <i>ℤ</i> double-struck capital z
		→ 2128 <i>ℤ</i> black-letter capital z

**ASCII punctuation and symbols**

005B	[	LEFT SQUARE BRACKET
		= opening square bracket (1.0)
		• other bracket characters: 27E6 <i>⌞</i> —27EB <i>⌟</i> , 2983 <i>⌠</i> —2998 <i>⌡</i> , 3008 <i>⌢</i> —301B <i>⌣</i>
005C	\	REVERSE SOLIDUS
		= backslash
		→ 20E5 <i>↵</i> combining reverse solidus overlay
		→ 2216 <i>−</i> set minus
005D	]	RIGHT SQUARE BRACKET
		= closing square bracket (1.0)
005E	^	CIRCUMFLEX ACCENT
		• this is a spacing character
		→ 02C4 <i>^</i> modifier letter up arrowhead
		→ 02C6 <i>^</i> modifier letter circumflex accent
		→ 0302 <i>ˆ</i> combining circumflex accent
		→ 2038 <i>^</i> caret
		→ 2303 <i>⤴</i> up arrowhead
005F	_	LOW LINE
		= spacing underscore (1.0)
		• this is a spacing character
		→ 02CD <i>_</i> modifier letter low macron
		→ 0331 <i>◌̣</i> combining macron below
		→ 0332 <i>◌̤</i> combining low line
		→ 2017 <i>≡</i> double low line
0060	`	GRAVE ACCENT
		• this is a spacing character
		→ 02CB <i>`</i> modifier letter grave accent
		→ 0300 <i>˘</i> combining grave accent
		→ 2035 <i>′</i> reversed prime

**Lowercase Latin alphabet**

0061	a	LATIN SMALL LETTER A
0062	b	LATIN SMALL LETTER B
0063	c	LATIN SMALL LETTER C
0064	d	LATIN SMALL LETTER D
0065	e	LATIN SMALL LETTER E
		→ 212E <i>ℷ</i> estimated symbol
		→ 212F <i>ℷ</i> script small e
0066	f	LATIN SMALL LETTER F
0067	g	LATIN SMALL LETTER G
		→ 0261 <i>ɡ</i> latin small letter script g
		→ 210A <i>ℳ</i> script small g
0068	h	LATIN SMALL LETTER H
		→ 04BB <i>Һ</i> cyrillic small letter shha
		→ 210E <i>ℏ</i> planck constant
0069	i	LATIN SMALL LETTER I
		• Turkish and Azerbaijani use 0130 <i>İ</i> for uppercase
		→ 0131 <i>ı</i> latin small letter dotless i
		→ 1D6A4 <i>ı</i> mathematical italic small dotless i
006A	j	LATIN SMALL LETTER J
		→ 0237 <i>ȝ</i> latin small letter dotless j
		→ 1D6A5 <i>ȝ</i> mathematical italic small dotless j
006B	k	LATIN SMALL LETTER K
006C	l	LATIN SMALL LETTER L
		→ 2113 <i>ℓ</i> script small l
		→ 1D4C1 <i>ℓ</i> mathematical script small l
006D	m	LATIN SMALL LETTER M

006E

## C0 Controls and Basic Latin


007F

- 006E n LATIN SMALL LETTER N  
→ 207F <sup>n</sup> superscript latin small letter n
- 006F o LATIN SMALL LETTER O  
→ 2134 *o* script small o
- 0070 p LATIN SMALL LETTER P
- 0071 q LATIN SMALL LETTER Q
- 0072 r LATIN SMALL LETTER R
- 0073 s LATIN SMALL LETTER S
- 0074 t LATIN SMALL LETTER T
- 0075 u LATIN SMALL LETTER U
- 0076 v LATIN SMALL LETTER V
- 0077 w LATIN SMALL LETTER W
- 0078 x LATIN SMALL LETTER X
- 0079 y LATIN SMALL LETTER Y
- 007A z LATIN SMALL LETTER Z  
→ 01B6 **z** latin small letter z with stroke

**ASCII punctuation and symbols**

- 007B { LEFT CURLY BRACKET  
= opening curly bracket (1.0)  
= left brace
- 007C | VERTICAL LINE  
= vertical bar  
• used in pairs to indicate absolute value  
→ 01C0 | latin letter dental click  
→ 05C0 | hebrew punctuation paseq  
→ 2223 | divides  
→ 2758 | light vertical bar
- 007D } RIGHT CURLY BRACKET  
= closing curly bracket (1.0)  
= right brace
- 007E ~ TILDE  
• this is a spacing character  
→ 02DC ~ small tilde  
→ 0303 ¸ combining tilde  
→ 2053 ~ swung dash  
→ 223C ~ tilde operator  
→ FF5E ~ fullwidth tilde

**Control character**

- 007F  <control>  
= DELETE

	008	009	00A	00B	00C	00D	00E	00F
0	XXX 0080	DCS 0090	NB SP 00A0	◊ 00B0	À 00C0	Đ 00D0	à 00E0	đ 00F0
1	XXX 0081	PU1 0091	¡ 00A1	± 00B1	Á 00C1	Ñ 00D1	á 00E1	ñ 00F1
2	BPH 0082	PU2 0092	¢ 00A2	² 00B2	Â 00C2	Ò 00D2	â 00E2	ò 00F2
3	NBH 0083	STS 0093	£ 00A3	³ 00B3	Ã 00C3	Ó 00D3	ã 00E3	ó 00F3
4	IND 0084	CCH 0094	¤ 00A4	´ 00B4	Ä 00C4	Ô 00D4	ä 00E4	ô 00F4
5	NEL 0085	MW 0095	¥ 00A5	µ 00B5	Å 00C5	Õ 00D5	å 00E5	õ 00F5
6	SSA 0086	SPA 0096	¦ 00A6	¶ 00B6	Æ 00C6	Ö 00D6	æ 00E6	ö 00F6
7	ESA 0087	EPA 0097	§ 00A7	· 00B7	Ç 00C7	× 00D7	ç 00E7	÷ 00F7
8	HTS 0088	SOS 0098	¨ 00A8	¸ 00B8	È 00C8	Ø 00D8	è 00E8	ø 00F8
9	HTJ 0089	XXX 0099	© 00A9	¹ 00B9	É 00C9	Ù 00D9	é 00E9	ù 00F9
A	VTS 008A	SCI 009A	ª 00AA	º 00BA	Ê 00CA	Ú 00DA	ê 00EA	ú 00FA
B	PLD 008B	CSI 009B	« 00AB	» 00BB	Ë 00CB	Û 00DB	ë 00EB	û 00FB
C	PLU 008C	ST 009C	¬ 00AC	¼ 00BC	Ì 00CC	Ü 00DC	ì 00EC	ü 00FC
D	RI 008D	OSC 009D	SHY 00AD	½ 00BD	Í 00CD	Ý 00DD	í 00ED	ý 00FD
E	SS2 008E	PM 009E	® 00AE	¾ 00BE	Î 00CE	Þ 00DE	î 00EE	þ 00FE
F	SS3 008F	APC 009F	— 00AF	¿ 00BF	Ï 00CF	ß 00DF	ï 00EF	ÿ 00FF

**C1 controls**

*Alias names are those for ISO/IEC 6429:1992.*

0080		<control>	
0081		<control>	
0082		<control>	
		= BREAK PERMITTED HERE	
		→ 200B  zero width space	
0083		<control>	
		= NO BREAK HERE	
		→ 2060  word joiner	
0084		<control>	
		• formerly known as INDEX	
0085		<control>	
		= NEXT LINE (NEL)	
0086		<control>	
		= START OF SELECTED AREA	
0087		<control>	
		= END OF SELECTED AREA	
0088		<control>	
		= CHARACTER TABULATION SET	
0089		<control>	
		= CHARACTER TABULATION WITH JUSTIFICATION	
008A		<control>	
		= LINE TABULATION SET	
008B		<control>	
		= PARTIAL LINE FORWARD	
008C		<control>	
		= PARTIAL LINE BACKWARD	
008D		<control>	
		= REVERSE LINE FEED	
008E		<control>	
		= SINGLE SHIFT TWO	
008F		<control>	
		= SINGLE SHIFT THREE	
0090		<control>	
		= DEVICE CONTROL STRING	
0091		<control>	
		= PRIVATE USE ONE	
0092		<control>	
		= PRIVATE USE TWO	
0093		<control>	
		= SET TRANSMIT STATE	
0094		<control>	
		= CANCEL CHARACTER	
0095		<control>	
		= MESSAGE WAITING	
0096		<control>	
		= START OF GUARDED AREA	
0097		<control>	
		= END OF GUARDED AREA	
0098		<control>	
		= START OF STRING	
0099		<control>	
009A		<control>	
		= SINGLE CHARACTER INTRODUCER	
009B		<control>	
		= CONTROL SEQUENCE INTRODUCER	
009C		<control>	
		= STRING TERMINATOR	
009D		<control>	
		= OPERATING SYSTEM COMMAND	

009E <control>  
= PRIVACY MESSAGE

009F <control>  
= APPLICATION PROGRAM COMMAND

**Latin-1 punctuation and symbols**

*Based on ISO/IEC 8859-1 (aka Latin-1) from here.*

00A0		NO-BREAK SPACE	
		• commonly abbreviated as NBSP	
		→ 0020  space	
		→ 2007  figure space	
		→ 202F  narrow no-break space	
		→ 2060  word joiner	
		→ FEFF  zero width no-break space	
		≈ <noBreak> 0020	
00A1	¡	INVERTED EXCLAMATION MARK	
		• Spanish, Asturian, Galician	
		→ 0021 ! exclamation mark	
00A2	¢	CENT SIGN	
00A3	£	POUND SIGN	
		= pound sterling, Irish punt, Italian lira, Turkish lira, etc.	
		→ 20A4 £ lira sign	
		→ 10192 ₧ roman semuncia sign	
00A4	¤	CURRENCY SIGN	
		• other currency symbol characters:	
		20A0 ₰ —20B5 ₣	
		→ 0024 \$ dollar sign	
00A5	¥	YEN SIGN	
		= yuan sign	
		• glyph may have one or two crossbars	
00A6	¦	BROKEN BAR	
		= broken vertical bar (1.0)	
		= parted rule (in typography)	
00A7	§	SECTION SIGN	
		• paragraph sign in some European usage	
00A8	¨	DIAERESIS	
		• this is a spacing character	
		→ 0308 ¨ combining diaeresis	
		≈ 0020  0308 ¨	
00A9	©	COPYRIGHT SIGN	
		→ 2117 ® sound recording copyright	
		→ 24B8 © circled latin capital letter c	
00AA	ª	FEMININE ORDINAL INDICATOR	
		• Spanish	
		≈ <super> 0061 a	
00AB	«	LEFT-POINTING DOUBLE ANGLE QUOTATION MARK	
		= left guillemet	
		= chevrons (in typography)	
		• usually opening, sometimes closing	
		→ 226A « much less-than	
		→ 300A « left double angle bracket	
00AC	¬	NOT SIGN	
		= angled dash (in typography)	
		→ 2310 ¬ reversed not sign	
00AD		SOFT HYPHEN	
		= discretionary hyphen	
		• commonly abbreviated as SHY	

00AE	®	<b>REGISTERED SIGN</b> = registered trade mark sign (1.0) → 24C7 ® circled latin capital letter r
00AF	—	<b>MACRON</b> = overline, APL overbar • this is a spacing character → 02C9 ¯ modifier letter macron → 0304 ¯ combining macron → 0305 ¯ combining overline ≈ 0020 [sp] 0304 ¯
00B0	°	<b>DEGREE SIGN</b> • this is a spacing character → 02DA ° ring above → 030A ° combining ring above → 2070 ° superscript zero → 2218 ° ring operator
00B1	±	<b>PLUS-MINUS SIGN</b> → 2213 ± minus-or-plus sign
00B2	²	<b>SUPERSCRIP TWO</b> = squared • other superscript digit characters: 2070 ⁰ —2079 ⁹ → 00B9 ¹ superscript one ≈ <super> 0032 2
00B3	³	<b>SUPERSCRIP THREE</b> = cubed → 00B9 ¹ superscript one ≈ <super> 0033 3
00B4	´	<b>ACUTE ACCENT</b> • this is a spacing character → 02B9 ´ modifier letter prime → 02CA ´ modifier letter acute accent → 0301 ó combining acute accent → 2032 ´ prime ≈ 0020 [sp] 0301 ó
00B5	μ	<b>MICRO SIGN</b> ≈ 03BC μ greek small letter mu
00B6	¶	<b>PILCROW SIGN</b> = paragraph sign • section sign in some European usage → 204B ¶ reversed pilcrow sign → 2761 ¶ curved stem paragraph sign ornament
00B7	·	<b>MIDDLE DOT</b> = midpoint (in typography) = Georgian comma = Greek middle dot (ano teleia) → 0387 · greek ano teleia → 16EB · runic single punctuation → 2022 • bullet → 2024 . one dot leader → 2027 · hyphenation point → 2219 • bullet operator → 22C5 · dot operator → 2E31 · word separator middle dot → 30FB • katakana middle dot

00B8	¸	<b>CEDILLA</b> • this is a spacing character • other spacing accent characters: 02D8 ~ —02DB ¸ → 0327 ¸ combining cedilla ≈ 0020 [sp] 0327 ¸
00B9	¹	<b>SUPERSCRIP ONE</b> → 00B2 ² superscript two → 00B3 ³ superscript three ≈ <super> 0031 1
00BA	º	<b>MASCULINE ORDINAL INDICATOR</b> • Spanish ≈ <super> 006F o
00BB	»	<b>RIGHT-POINTING DOUBLE ANGLE QUOTATION MARK</b> = right guillemet • usually closing, sometimes opening → 226B » much greater-than → 300B » right double angle bracket
00BC	¼	<b>VULGAR FRACTION ONE QUARTER</b> • bar may be horizontal or slanted • other fraction characters: 2153 ⅓ —215E ⅔ ≈ <fraction> 0031 1 2044/ 0034 4
00BD	½	<b>VULGAR FRACTION ONE HALF</b> • bar may be horizontal or slanted ≈ <fraction> 0031 1 2044/ 0032 2
00BE	¾	<b>VULGAR FRACTION THREE QUARTERS</b> • bar may be horizontal or slanted ≈ <fraction> 0033 3 2044/ 0034 4
00BF	¿	<b>INVERTED QUESTION MARK</b> = turned question mark • Spanish → 003F ? question mark → 2E2E ? reversed question mark

**Letters**

00C0	À	<b>LATIN CAPITAL LETTER A WITH GRAVE</b> ≡ 0041 A 0300 ò
00C1	Á	<b>LATIN CAPITAL LETTER A WITH ACUTE</b> ≡ 0041 A 0301 ó
00C2	Â	<b>LATIN CAPITAL LETTER A WITH CIRCUMFLEX</b> ≡ 0041 A 0302 ô
00C3	Ã	<b>LATIN CAPITAL LETTER A WITH TILDE</b> ≡ 0041 A 0303 õ
00C4	Ä	<b>LATIN CAPITAL LETTER A WITH DIAERESIS</b> ≡ 0041 A 0308 ö
00C5	Å	<b>LATIN CAPITAL LETTER A WITH RING ABOVE</b> → 212B Å angstrom sign ≡ 0041 A 030A å
00C6	Æ	<b>LATIN CAPITAL LETTER AE</b> = latin capital ligature ae (1.0)
00C7	Ç	<b>LATIN CAPITAL LETTER C WITH CEDILLA</b> ≡ 0043 C 0327 ç
00C8	È	<b>LATIN CAPITAL LETTER E WITH GRAVE</b> ≡ 0045 E 0300 è
00C9	É	<b>LATIN CAPITAL LETTER E WITH ACUTE</b> ≡ 0045 E 0301 é
00CA	Ê	<b>LATIN CAPITAL LETTER E WITH CIRCUMFLEX</b> ≡ 0045 E 0302 ê



00CB

## C1 Controls and Latin-1 Supplement

00F7

00CB	Ë	LATIN CAPITAL LETTER E WITH DIAERESIS ≡ 0045 E 0308 ̈
00CC	Ì	LATIN CAPITAL LETTER I WITH GRAVE ≡ 0049 I 0300 `
00CD	Í	LATIN CAPITAL LETTER I WITH ACUTE ≡ 0049 I 0301 ´
00CE	Î	LATIN CAPITAL LETTER I WITH CIRCUMFLEX ≡ 0049 I 0302 ^
00CF	Ï	LATIN CAPITAL LETTER I WITH DIAERESIS ≡ 0049 I 0308 ̈
00D0	Ð	LATIN CAPITAL LETTER ETH → 00F0 ð latin small letter eth → 0110 Ð latin capital letter d with stroke → 0189 Ð latin capital letter african d
00D1	Ñ	LATIN CAPITAL LETTER N WITH TILDE ≡ 004E N 0303 ~
00D2	Ò	LATIN CAPITAL LETTER O WITH GRAVE ≡ 004F O 0300 `
00D3	Ó	LATIN CAPITAL LETTER O WITH ACUTE ≡ 004F O 0301 ´
00D4	Ô	LATIN CAPITAL LETTER O WITH CIRCUMFLEX ≡ 004F O 0302 ^
00D5	Õ	LATIN CAPITAL LETTER O WITH TILDE ≡ 004F O 0303 ~
00D6	Ö	LATIN CAPITAL LETTER O WITH DIAERESIS ≡ 004F O 0308 ̈

**Mathematical operator**

00D7	×	MULTIPLICATION SIGN = z notation Cartesian product
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**Letters**

00D8	Ø	LATIN CAPITAL LETTER O WITH STROKE = o slash → 2205 Ø empty set
00D9	Ù	LATIN CAPITAL LETTER U WITH GRAVE ≡ 0055 U 0300 `
00DA	Ú	LATIN CAPITAL LETTER U WITH ACUTE ≡ 0055 U 0301 ´
00DB	Û	LATIN CAPITAL LETTER U WITH CIRCUMFLEX ≡ 0055 U 0302 ^
00DC	Ü	LATIN CAPITAL LETTER U WITH DIAERESIS ≡ 0055 U 0308 ̈
00DD	Ý	LATIN CAPITAL LETTER Y WITH ACUTE ≡ 0059 Y 0301 ´
00DE	Þ	LATIN CAPITAL LETTER THORN
00DF	ß	LATIN SMALL LETTER SHARP S = Eszett • German • uppercase is “SS” • in origin a ligature of 017F f and 0073 s → 03B2 β greek small letter beta → 1E9E ß latin capital letter sharp s
00E0	à	LATIN SMALL LETTER A WITH GRAVE ≡ 0061 a 0300 `
00E1	á	LATIN SMALL LETTER A WITH ACUTE ≡ 0061 a 0301 ´
00E2	â	LATIN SMALL LETTER A WITH CIRCUMFLEX ≡ 0061 a 0302 ^

00E3	ã	LATIN SMALL LETTER A WITH TILDE • Portuguese ≡ 0061 a 0303 ~
00E4	ä	LATIN SMALL LETTER A WITH DIAERESIS ≡ 0061 a 0308 ̈
00E5	å	LATIN SMALL LETTER A WITH RING ABOVE • Danish, Norwegian, Swedish, Walloon ≡ 0061 a 030A ̊
00E6	æ	LATIN SMALL LETTER AE = latin small ligature ae (1.0) = ash (from Old English æsc) • Danish, Norwegian, Icelandic, Faroese, Old English, French, IPA → 0153 œ latin small ligature oe → 04D5 æ cyrillic small ligature a ie
00E7	ç	LATIN SMALL LETTER C WITH CEDILLA ≡ 0063 c 0327 ¸
00E8	è	LATIN SMALL LETTER E WITH GRAVE ≡ 0065 e 0300 `
00E9	é	LATIN SMALL LETTER E WITH ACUTE ≡ 0065 e 0301 ´
00EA	ê	LATIN SMALL LETTER E WITH CIRCUMFLEX ≡ 0065 e 0302 ^
00EB	ë	LATIN SMALL LETTER E WITH DIAERESIS ≡ 0065 e 0308 ̈
00EC	ì	LATIN SMALL LETTER I WITH GRAVE • Italian, Malagasy ≡ 0069 i 0300 `
00ED	í	LATIN SMALL LETTER I WITH ACUTE ≡ 0069 i 0301 ´
00EE	î	LATIN SMALL LETTER I WITH CIRCUMFLEX ≡ 0069 i 0302 ^
00EF	ï	LATIN SMALL LETTER I WITH DIAERESIS ≡ 0069 i 0308 ̈
00F0	ð	LATIN SMALL LETTER ETH • Icelandic, Faroese, Old English, IPA → 00D0 Ð latin capital letter eth → 03B4 δ greek small letter delta → 2202 ∂ partial differential
00F1	ñ	LATIN SMALL LETTER N WITH TILDE ≡ 006E n 0303 ~
00F2	ò	LATIN SMALL LETTER O WITH GRAVE ≡ 006F o 0300 `
00F3	ó	LATIN SMALL LETTER O WITH ACUTE ≡ 006F o 0301 ´
00F4	ô	LATIN SMALL LETTER O WITH CIRCUMFLEX ≡ 006F o 0302 ^
00F5	õ	LATIN SMALL LETTER O WITH TILDE • Portuguese, Estonian ≡ 006F o 0303 ~
00F6	ö	LATIN SMALL LETTER O WITH DIAERESIS ≡ 006F o 0308 ̈

**Mathematical operator**

00F7	÷	DIVISION SIGN → 2215 / division slash → 2223 ∣ divides
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**Letters**

00F8	ø	<b>LATIN SMALL LETTER O WITH STROKE</b> = o slash • Danish, Norwegian, Faroese, IPA
00F9	ù	<b>LATIN SMALL LETTER U WITH GRAVE</b> • French, Italian ≡ 0075 u 0300 ò
00FA	ú	<b>LATIN SMALL LETTER U WITH ACUTE</b> ≡ 0075 u 0301 ó
00FB	û	<b>LATIN SMALL LETTER U WITH CIRCUMFLEX</b> ≡ 0075 u 0302 ô
00FC	ü	<b>LATIN SMALL LETTER U WITH DIAERESIS</b> ≡ 0075 u 0308 ö
00FD	ý	<b>LATIN SMALL LETTER Y WITH ACUTE</b> • Czech, Slovak, Icelandic, Faroese, Welsh, Malagasy ≡ 0079 y 0301 ó
00FE	þ	<b>LATIN SMALL LETTER THORN</b> • Icelandic, Old English, phonetics • Runic letter borrowed into Latin script → 16A6 ƥ runic letter thurisaz thurs thorn
00FF	ÿ	<b>LATIN SMALL LETTER Y WITH DIAERESIS</b> • French → 0178 Ÿ latin capital letter y with diaeresis ≡ 0079 y 0308 ö

	010	011	012	013	014	015	016	017
0	Ā 0100	Đ 0110	Ġ 0120	İ 0130	ı· 0140	Ŏ 0150	Š 0160	Ű 0170
1	ā 0101	đ 0111	ġ 0121	ı 0131	Ł 0141	ő 0151	š 0161	ű 0171
2	Ă 0102	Ē 0112	Ģ 0122	IJ 0132	ł 0142	Œ 0152	Ţ 0162	Ų 0172
3	ă 0103	ē 0113	ģ 0123	ij 0133	Ń 0143	œ 0153	ţ 0163	ų 0173
4	Ą 0104	Ě 0114	Ĥ 0124	Ĵ 0134	ń 0144	Ŕ 0154	Ť 0164	Ŵ 0174
5	ą 0105	ě 0115	ĥ 0125	ĵ 0135	Ņ 0145	ŕ 0155	ť 0165	ŵ 0175
6	Ć 0106	Ê 0116	Ħ 0126	Ķ 0136	ņ 0146	Ŗ 0156	Ŧ 0166	Ŷ 0176
7	ć 0107	ê 0117	ħ 0127	ķ 0137	Ň 0147	ŗ 0157	ŧ 0167	ŷ 0177
8	Ĉ 0108	Ė 0118	Ĩ 0128	κ 0138	ň 0148	Ř 0158	Ũ 0168	Ỳ 0178
9	ĉ 0109	ė 0119	ĩ 0129	ĺ 0139	’n 0149	ř 0159	ũ 0169	Ẑ 0179
A	Ċ 010A	Ě 011A	Ī 012A	Í 013A	Ņ 014A	Ś 015A	Ū 016A	Ẓ 017A
B	ċ 010B	ė 011B	ī 012B	Ľ 013B	ŋ 014B	ś 015B	ū 016B	ẑ 017B
C	Č 010C	Ĝ 011C	Ĭ 012C	Ĳ 013C	Ō 014C	Ŝ 015C	Ů 016C	ẓ 017C
D	č 010D	ĝ 011D	ĭ 012D	Ĳ 013D	ō 014D	ŝ 015D	ů 016D	Ẕ 017D
E	Ď 010E	Ģ 011E	Į 012E	Ĳ 013E	Ŏ 014E	Ş 015E	Ű 016E	ẕ 017E
F	ď 010F	ğ 011F	į 012F	Ĳ 013F	ő 014F	ş 015F	ű 016F	ƒ 017F

**European Latin**

0100	Ā	LATIN CAPITAL LETTER A WITH MACRON ≡ 0041 A 0304 ◌̄
0101	ā	LATIN SMALL LETTER A WITH MACRON • Latvian, Latin, ... ≡ 0061 a 0304 ◌̄
0102	Ă	LATIN CAPITAL LETTER A WITH BREVE ≡ 0041 A 0306 ◌̆
0103	ă	LATIN SMALL LETTER A WITH BREVE • Romanian, Vietnamese, Latin, ... ≡ 0061 a 0306 ◌̆
0104	Ą	LATIN CAPITAL LETTER A WITH OGONEK ≡ 0041 A 0328 ◌̇
0105	ą	LATIN SMALL LETTER A WITH OGONEK • Polish, Lithuanian, ... ≡ 0061 a 0328 ◌̇
0106	Ć	LATIN CAPITAL LETTER C WITH ACUTE ≡ 0043 C 0301 ◌̇
0107	ć	LATIN SMALL LETTER C WITH ACUTE • Polish, Croatian, ... → 045B ħ cyrillic small letter tshe ≡ 0063 c 0301 ◌̇
0108	Ĉ	LATIN CAPITAL LETTER C WITH CIRCUMFLEX ≡ 0043 C 0302 ◌̂
0109	ĉ	LATIN SMALL LETTER C WITH CIRCUMFLEX • Esperanto ≡ 0063 c 0302 ◌̂
010A	Ċ	LATIN CAPITAL LETTER C WITH DOT ABOVE ≡ 0043 C 0307 ◌̣
010B	ċ	LATIN SMALL LETTER C WITH DOT ABOVE • Maltese, Irish Gaelic (old orthography) ≡ 0063 c 0307 ◌̣
010C	Č	LATIN CAPITAL LETTER C WITH CARON ≡ 0043 C 030C ◌̣̂
010D	č	LATIN SMALL LETTER C WITH CARON • Czech, Slovak, Slovenian, and many other languages ≡ 0063 c 030C ◌̣̂
010E	Ď	LATIN CAPITAL LETTER D WITH CARON • the form using caron/hacek is preferred in all contexts ≡ 0044 D 030C ◌̣̂
010F	ď	LATIN SMALL LETTER D WITH CARON • Czech, Slovak • the form using apostrophe is preferred in typesetting ≡ 0064 d 030C ◌̣̂
0110	Ð	LATIN CAPITAL LETTER D WITH STROKE → 00D0 Ð latin capital letter eth → 0111 đ latin small letter d with stroke → 0189 Ð latin capital letter african d
0111	đ	LATIN SMALL LETTER D WITH STROKE • Croatian, Vietnamese, Sami • an alternate glyph with the stroke through the bowl is used in Americanist orthographies → 0110 Ð latin capital letter d with stroke → 0452 ħ cyrillic small letter dje
0112	Ē	LATIN CAPITAL LETTER E WITH MACRON ≡ 0045 E 0304 ◌̄
0113	ē	LATIN SMALL LETTER E WITH MACRON • Latvian, Latin, ... ≡ 0065 e 0304 ◌̄
0114	Ĕ	LATIN CAPITAL LETTER E WITH BREVE ≡ 0045 E 0306 ◌̆
0115	ĕ	LATIN SMALL LETTER E WITH BREVE • Malay, Latin, ... ≡ 0065 e 0306 ◌̆
0116	Ė	LATIN CAPITAL LETTER E WITH DOT ABOVE ≡ 0045 E 0307 ◌̣
0117	ė	LATIN SMALL LETTER E WITH DOT ABOVE • Lithuanian ≡ 0065 e 0307 ◌̣
0118	Ę	LATIN CAPITAL LETTER E WITH OGONEK ≡ 0045 E 0328 ◌̇
0119	ę	LATIN SMALL LETTER E WITH OGONEK • Polish, Lithuanian, ... ≡ 0065 e 0328 ◌̇
011A	Ě	LATIN CAPITAL LETTER E WITH CARON ≡ 0045 E 030C ◌̣̂
011B	ě	LATIN SMALL LETTER E WITH CARON • Czech, ... ≡ 0065 e 030C ◌̣̂
011C	Ĝ	LATIN CAPITAL LETTER G WITH CIRCUMFLEX ≡ 0047 G 0302 ◌̂
011D	ĝ	LATIN SMALL LETTER G WITH CIRCUMFLEX • Esperanto ≡ 0067 g 0302 ◌̂
011E	Ğ	LATIN CAPITAL LETTER G WITH BREVE ≡ 0047 G 0306 ◌̆
011F	ğ	LATIN SMALL LETTER G WITH BREVE • Turkish, Azerbaijani → 01E7 ğ latin small letter g with caron ≡ 0067 g 0306 ◌̆
0120	Ġ	LATIN CAPITAL LETTER G WITH DOT ABOVE ≡ 0047 G 0307 ◌̣
0121	ġ	LATIN SMALL LETTER G WITH DOT ABOVE • Maltese, Irish Gaelic (old orthography) ≡ 0067 g 0307 ◌̣
0122	Ģ	LATIN CAPITAL LETTER G WITH CEDILLA ≡ 0047 G 0327 ◌̈́
0123	ģ	LATIN SMALL LETTER G WITH CEDILLA • Latvian • there are three major glyph variants ≡ 0067 g 0327 ◌̈́
0124	Ĥ	LATIN CAPITAL LETTER H WITH CIRCUMFLEX ≡ 0048 H 0302 ◌̂
0125	ĥ	LATIN SMALL LETTER H WITH CIRCUMFLEX • Esperanto ≡ 0068 h 0302 ◌̂
0126	Ħ	LATIN CAPITAL LETTER H WITH STROKE
0127	ħ	LATIN SMALL LETTER H WITH STROKE • Maltese, IPA, ... → 045B ħ cyrillic small letter tshe → 210F ħ planck constant over two pi

0128	Ī	LATIN CAPITAL LETTER I WITH TILDE ≡ 0049 I 0303 Ǆ
0129	ĩ	LATIN SMALL LETTER I WITH TILDE • Greenlandic (old orthography) ≡ 0069 i 0303 ǵ
012A	Ī	LATIN CAPITAL LETTER I WITH MACRON ≡ 0049 I 0304 ̄
012B	ī	LATIN SMALL LETTER I WITH MACRON • Latvian, Latin, ... ≡ 0069 i 0304 ̄
012C	İ	LATIN CAPITAL LETTER I WITH BREVE ≡ 0049 I 0306 ̇
012D	ı	LATIN SMALL LETTER I WITH BREVE • Latin, ... ≡ 0069 i 0306 ̇
012E	Į	LATIN CAPITAL LETTER I WITH OGONEK ≡ 0049 I 0328 ̇
012F	į	LATIN SMALL LETTER I WITH OGONEK • Lithuanian, ... ≡ 0069 i 0328 ̇
0130	İ̇	LATIN CAPITAL LETTER I WITH DOT ABOVE = i dot • Turkish, Azerbaijani • lowercase is 0069 i → 0049 I latin capital letter i ≡ 0049 I 0307 ̇
0131	ı̇	LATIN SMALL LETTER DOTLESS I • Turkish, Azerbaijani • uppercase is 0049 İ → 0069 i latin small letter i
0132	IJ	LATIN CAPITAL LIGATURE IJ ≈ 0049 I 004A J
0133	ij	LATIN SMALL LIGATURE IJ • Dutch ≈ 0069 i 006A j
0134	Ĵ	LATIN CAPITAL LETTER J WITH CIRCUMFLEX ≡ 004A J 0302 ̂
0135	ĵ	LATIN SMALL LETTER J WITH CIRCUMFLEX • Esperanto ≡ 006A j 0302 ̂
0136	ķ	LATIN CAPITAL LETTER K WITH CEDILLA ≡ 004B K 0327 ̣
0137	ķ	LATIN SMALL LETTER K WITH CEDILLA • Latvian ≡ 006B k 0327 ̣
0138	ƙ	LATIN SMALL LETTER KRA • Greenlandic (old orthography)
0139	Ĺ	LATIN CAPITAL LETTER L WITH ACUTE ≡ 004C L 0301 ́
013A	ĺ	LATIN SMALL LETTER L WITH ACUTE • Slovak ≡ 006C l 0301 ́
013B	Ļ	LATIN CAPITAL LETTER L WITH CEDILLA ≡ 004C L 0327 ̣
013C	ļ	LATIN SMALL LETTER L WITH CEDILLA • Latvian ≡ 006C l 0327 ̣

013D	Ľ	LATIN CAPITAL LETTER L WITH CARON • the form using apostrophe is preferred in typesetting ≡ 004C L 030C ǃ
013E	ĺ	LATIN SMALL LETTER L WITH CARON • Slovak • the form using apostrophe is preferred in typesetting ≡ 006C l 030C ǃ
013F	Ľ	LATIN CAPITAL LETTER L WITH MIDDLE DOT • some fonts show the middle dot inside the L, but the preferred form has the dot following the L ≈ 004C L 00B7 ·
0140	ḷ	LATIN SMALL LETTER L WITH MIDDLE DOT ≈ 006C l 00B7 · • Catalan legacy compatibility character for ISO/IEC 6937 • preferred representation for Catalan: 006C l 00B7 ·
0141	Ł	LATIN CAPITAL LETTER L WITH STROKE → 023D Ł latin capital letter l with bar
0142	ł	LATIN SMALL LETTER L WITH STROKE • Polish, ... → 019A ł latin small letter l with bar
0143	Ń	LATIN CAPITAL LETTER N WITH ACUTE ≡ 004E N 0301 ́
0144	ń	LATIN SMALL LETTER N WITH ACUTE • Polish, ... ≡ 006E n 0301 ́
0145	Ñ	LATIN CAPITAL LETTER N WITH CEDILLA ≡ 004E N 0327 ̣
0146	ņ	LATIN SMALL LETTER N WITH CEDILLA • Latvian ≡ 006E n 0327 ̣
0147	Ň	LATIN CAPITAL LETTER N WITH CARON ≡ 004E N 030C ǃ
0148	ň	LATIN SMALL LETTER N WITH CARON • Czech, Slovak ≡ 006E n 030C ǃ

**Deprecated letter**

0149	’n	LATIN SMALL LETTER N PRECEDED BY APOSTROPHE = latin small letter apostrophe n (1.0) • this character is deprecated and its use is strongly discouraged • Afrikaans ≈ 02BC ’ 006E n • legacy compatibility character for ISO/IEC 6937 • uppercase is 02BC ’ 004E N
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**European Latin**

014A	Ŋ	LATIN CAPITAL LETTER ENG • glyph may also have appearance of large form of the small letter
014B	ŋ	LATIN SMALL LETTER ENG = engma, angma • Sami, Mende, IPA, ...
014C	Ō	LATIN CAPITAL LETTER O WITH MACRON ≡ 004F O 0304 ̄

014D	ō	LATIN SMALL LETTER O WITH MACRON • Latvian, Latin, ... ≡ 006F o 0304 ̄	0162	Ŧ	LATIN CAPITAL LETTER T WITH CEDILLA ≡ 0054 T 0327 ̣
014E	Ŏ	LATIN CAPITAL LETTER O WITH BREVE ≡ 004F O 0306 ̆	0163	ț	LATIN SMALL LETTER T WITH CEDILLA • Semitic transliteration, ... • the character 0218 ț is preferred for Romanian → 021B ț latin small letter t with comma below ≡ 0074 t 0327 ̣
014F	ö	LATIN SMALL LETTER O WITH BREVE • Latin ≡ 006F o 0306 ̆	0164	Ť	LATIN CAPITAL LETTER T WITH CARON • the form using caron/hacek is preferred in all contexts ≡ 0054 T 030C ̈
0150	Ō	LATIN CAPITAL LETTER O WITH DOUBLE ACUTE ≡ 004F O 030B ̈́	0165	ť	LATIN SMALL LETTER T WITH CARON • Czech, Slovak • the form using apostrophe is preferred in typesetting ≡ 0074 t 030C ̈́
0151	ő	LATIN SMALL LETTER O WITH DOUBLE ACUTE • Hungarian ≡ 006F o 030B ̈́	0166	Ŧ	LATIN CAPITAL LETTER T WITH STROKE 0167
0152	Œ	LATIN CAPITAL LIGATURE OE	0167	ť	LATIN SMALL LETTER T WITH STROKE • Sami
0153	æ	LATIN SMALL LIGATURE OE = ethel (from Old English eðel) • French, IPA, Old Icelandic, Old English, ... → 00E6 æ latin small letter ae → 0276 æ latin letter small capital oe	0168	Ū	LATIN CAPITAL LETTER U WITH TILDE ≡ 0055 U 0303 ̃
0154	Ŕ	LATIN CAPITAL LETTER R WITH ACUTE ≡ 0052 R 0301 ́	0169	ū	LATIN SMALL LETTER U WITH TILDE • Greenlandic (old orthography) ≡ 0075 u 0303 ̃
0155	ř	LATIN SMALL LETTER R WITH ACUTE • Slovak, ... ≡ 0072 r 0301 ́	016A	Ū	LATIN CAPITAL LETTER U WITH MACRON ≡ 0055 U 0304 ̄
0156	Ŗ	LATIN CAPITAL LETTER R WITH CEDILLA ≡ 0052 R 0327 ̣	016B	ū	LATIN SMALL LETTER U WITH MACRON • Latvian, Lithuanian, Latin, ... ≡ 0075 u 0304 ̄
0157	ŗ	LATIN SMALL LETTER R WITH CEDILLA • Livonian ≡ 0072 r 0327 ̣	016C	Ů	LATIN CAPITAL LETTER U WITH BREVE ≡ 0055 U 0306 ̆
0158	Ř	LATIN CAPITAL LETTER R WITH CARON ≡ 0052 R 030C ̈	016D	ů	LATIN SMALL LETTER U WITH BREVE • Latin, Esperanto, ... ≡ 0075 u 0306 ̆
0159	ř	LATIN SMALL LETTER R WITH CARON • Czech, ... ≡ 0072 r 030C ̈	016E	Ů	LATIN CAPITAL LETTER U WITH RING ABOVE ≡ 0055 U 030A ̈́
015A	Ś	LATIN CAPITAL LETTER S WITH ACUTE ≡ 0053 S 0301 ́	016F	ű	LATIN SMALL LETTER U WITH RING ABOVE • Czech, ... ≡ 0075 u 030A ̈́
015B	ś	LATIN SMALL LETTER S WITH ACUTE • Polish, Indic transliteration, ... ≡ 0073 s 0301 ́	0170	Ű	LATIN CAPITAL LETTER U WITH DOUBLE ACUTE ≡ 0055 U 030B ̈́
015C	Ŝ	LATIN CAPITAL LETTER S WITH CIRCUMFLEX ≡ 0053 S 0302 ̂	0171	ű	LATIN SMALL LETTER U WITH DOUBLE ACUTE • Hungarian ≡ 0075 u 030B ̈́
015D	ŝ	LATIN SMALL LETTER S WITH CIRCUMFLEX • Esperanto ≡ 0073 s 0302 ̂	0172	Ų	LATIN CAPITAL LETTER U WITH OGONEK ≡ 0055 U 0328 ̧
015E	Ş	LATIN CAPITAL LETTER S WITH CEDILLA ≡ 0053 S 0327 ̣	0173	ų	LATIN SMALL LETTER U WITH OGONEK • Lithuanian ≡ 0075 u 0328 ̧
015F	ş	LATIN SMALL LETTER S WITH CEDILLA • Turkish, Azerbaijani, ... • the character 0219 ş is preferred for Romanian → 0219 ş latin small letter s with comma below ≡ 0073 s 0327 ̣	0174	Ŵ	LATIN CAPITAL LETTER W WITH CIRCUMFLEX ≡ 0057 W 0302 ̂
0160	Š	LATIN CAPITAL LETTER S WITH CARON ≡ 0053 S 030C ̈	0175	ŵ	LATIN SMALL LETTER W WITH CIRCUMFLEX • Welsh ≡ 0077 w 0302 ̂
0161	š	LATIN SMALL LETTER S WITH CARON • Czech, Estonian, Finnish, Slovak, and many other languages ≡ 0073 s 030C ̈	0176	Ŷ	LATIN CAPITAL LETTER Y WITH CIRCUMFLEX ≡ 0059 Y 0302 ̂

0177

## Latin Extended-A

017F

- 0177 ŷ LATIN SMALL LETTER Y WITH CIRCUMFLEX  
 • Welsh  
 ≡ 0079 y 0302 ô
- 0178 Ÿ LATIN CAPITAL LETTER Y WITH DIAERESIS  
 • French, Igbo  
 → 00FF ÿ latin small letter y with diaeresis  
 ≡ 0059 Y 0308 ö
- 0179 Ž LATIN CAPITAL LETTER Z WITH ACUTE  
 ≡ 005A Z 0301 ó
- 017A ž LATIN SMALL LETTER Z WITH ACUTE  
 • Polish, ...  
 ≡ 007A z 0301 ó
- 017B Ž LATIN CAPITAL LETTER Z WITH DOT ABOVE  
 ≡ 005A Z 0307 ő
- 017C ž LATIN SMALL LETTER Z WITH DOT ABOVE  
 • Polish, ...  
 ≡ 007A z 0307 ő
- 017D Ž LATIN CAPITAL LETTER Z WITH CARON  
 ≡ 005A Z 030C š
- 017E ž LATIN SMALL LETTER Z WITH CARON  
 • Czech, Estonian, Finnish, Slovak, Slovenian, and many other languages  
 ≡ 007A z 030C š
- 017F ſ LATIN SMALL LETTER LONG S  
 • in common use in Roman types until the 18th century  
 • in current use in Fraktur and Gaelic types  
 ≈ 0073 s latin small letter s

	018	019	01A	01B	01C	01D	01E	01F	020	021	022	023	024
0	Ḕ 0180	Ɛ 0190	Ɔ 01A0	Ʈ 01B0	ǀ 01C0	ǃ 01D0	Ā 01E0	ǰ 01F0	À 0200	Ř 0210	ŋ 0220	Ō 0230	Ƶ 0240
1	Ḓ 0181	Ƒ 0191	σ 01A1	Ʈ 01B1	ǁ 01C1	Ǫ 01D1	ā 01E1	DZ 01F1	à 0201	ř 0211	ɖ 0221	ō 0231	ƶ 0241
2	Ḗ 0182	ƒ 0192	Ɔ 01A2	Ʈ 01B2	ǂ 01C2	ǫ 01D2	Æ 01E2	Dz 01F2	Â 0202	Ŕ 0212	8 0222	Ȳ 0232	Ʒ 0242
3	Ḕ 0183	Ƒ 0193	Ɔ 01A3	Ʈ 01B3	ǃ 01C3	Ǆ 01D3	æ 01E3	dz 01F3	â 0203	ŕ 0213	8 0223	ȳ 0233	Ʒ 0243
4	Ḕ 0184	Ƒ 0194	Ɔ 01A4	Ʈ 01B4	Ǆ 01C4	ǅ 01D4	Ɠ 01E4	Ɠ 01F4	È 0204	Ù 0214	Ʒ 0224	ł 0234	Ƨ 0244
5	Ḕ 0185	Ƒ 0195	Ɔ 01A5	Ʈ 01B5	ǅ 01C5	ǆ 01D5	Ɠ 01E5	Ɠ 01F5	è 0205	ù 0215	Ʒ 0225	ŋ 0235	Λ 0245
6	Ḕ 0186	Ƒ 0196	Ɔ 01A6	Ʈ 01B6	ǆ 01C6	Ǉ 01D6	Ɠ 01E6	Ɠ 01F6	Ê 0206	Û 0216	À 0226	Ƨ 0236	Ƨ 0246
7	Ḕ 0187	Ƒ 0197	Ɔ 01A7	Ʈ 01B7	Ǉ 01C7	ǈ 01D7	Ɠ 01E7	Ɠ 01F7	ê 0207	û 0217	à 0227	Ƨ 0237	Ƨ 0247
8	Ḕ 0188	Ƒ 0198	Ɔ 01A8	Ʈ 01B8	ǈ 01C8	ǉ 01D8	Ɠ 01E8	Ɠ 01F8	Ë 0208	Ü 0218	Ʒ 0228	Ƨ 0238	Ƨ 0248
9	Ḕ 0189	Ƒ 0199	Ɔ 01A9	Ʈ 01B9	ǉ 01C9	Ǌ 01D9	Ɠ 01E9	Ɠ 01F9	ì 0209	ş 0219	Ʒ 0229	Ƨ 0239	Ƨ 0249
A	Ḕ 018A	Ƒ 019A	Ɔ 01AA	Ʈ 01BA	Ǌ 01CA	ǋ 01DA	Ɠ 01EA	Ɠ 01FA	Î 020A	Ț 021A	Ō 022A	Ƨ 023A	Ƨ 024A
B	Ḕ 018B	Ƒ 019B	Ɔ 01AB	Ʈ 01BB	ǋ 01CB	ǌ 01DB	Ɠ 01EB	Ɠ 01FB	î 020B	ț 021B	ö 022B	Ƨ 023B	Ƨ 024B
C	Ḕ 018C	Ƒ 019C	Ɔ 01AC	Ʈ 01BC	ǌ 01CC	Ǎ 01DC	Ɠ 01EC	Ɠ 01FC	Ò 020C	Ʒ 021C	Ō 022C	Ƨ 023C	Ƨ 024C
D	Ḕ 018D	Ƒ 019D	Ɔ 01AD	Ʈ 01BD	Ǎ 01CD	ǎ 01DD	Ɠ 01ED	Ɠ 01FD	ò 020D	Ʒ 021D	ō 022D	Ƨ 023D	Ƨ 024D
E	Ḕ 018E	Ƒ 019E	Ɔ 01AE	Ʈ 01BE	ǎ 01CE	Ā 01DE	Ž 01EE	Ø 01FE	Ô 020E	Ĥ 021E	Ò 022E	Ƨ 023E	Ƨ 024E
F	Ḕ 018F	Ƒ 019F	Ɔ 01AF	Ʈ 01BF	ǎ 01CF	ā 01DF	ž 01EF	ø 01FF	ô 020F	ĥ 021F	ò 022F	Ƨ 023F	Ƨ 024F



**Non-European and historic Latin**

- 0180 **Ɓ** LATIN SMALL LETTER B WITH STROKE
- Americanist and Indo-Europeanist usage for phonetic beta
  - Americanist orthographies use an alternate glyph with the stroke through the bowl
  - Old Saxon
  - uppercase is 0243 **Ɓ**
  - 03B2 **β** greek small letter beta
  - 2422 **Ɓ** blank symbol
- 0181 **Ɓ** LATIN CAPITAL LETTER B WITH HOOK
- Zulu, Pan-Nigerian alphabet
  - 0253 **Ɓ** latin small letter b with hook
- 0182 **Ɓ** LATIN CAPITAL LETTER B WITH TOPBAR
- 0183 **Ɓ** LATIN SMALL LETTER B WITH TOPBAR
- Zhuang (old orthography)
  - former Soviet minority language scripts
  - 0411 **Ɓ** cyrillic capital letter be
- 0184 **Ƀ** LATIN CAPITAL LETTER TONE SIX
- 0185 **Ƀ** LATIN SMALL LETTER TONE SIX
- Zhuang (old orthography)
  - Zhuang tone three is Cyrillic ze
  - Zhuang tone four is Cyrillic che
  - 01A8 **Ƀ** latin small letter tone two
  - 01BD **Ƀ** latin small letter tone five
  - 0437 **Ƀ** cyrillic small letter ze
  - 0447 **Ƀ** cyrillic small letter che
  - 044C **Ƀ** cyrillic small letter soft sign
- 0186 **Ɔ** LATIN CAPITAL LETTER OPEN O
- typographically a turned C
  - African
  - 0254 **Ɔ** latin small letter open o
- 0187 **Ɔ** LATIN CAPITAL LETTER C WITH HOOK
- 0188 **Ɔ** LATIN SMALL LETTER C WITH HOOK
- African
- 0189 **Ɔ** LATIN CAPITAL LETTER AFRICAN D
- Ewe
  - lowercase is 0256 **Ɔ**
  - 00D0 **Ɔ** latin capital letter eth
  - 0110 **Ɔ** latin capital letter d with stroke
- 018A **Ɔ** LATIN CAPITAL LETTER D WITH HOOK
- Pan-Nigerian alphabet
  - 0257 **Ɔ** latin small letter d with hook
- 018B **Ɔ** LATIN CAPITAL LETTER D WITH TOPBAR
- 018C **Ɔ** LATIN SMALL LETTER D WITH TOPBAR
- former-Soviet minority language scripts
  - Zhuang (old orthography)
- 018D **Ɔ** LATIN SMALL LETTER TURNED DELTA
- = reversed Polish-hook o
  - archaic phonetic for labialized alveolar fricative
  - recommended spellings 007A **Ɔ** 02B7 **Ɔ** or 007A **Ɔ** 032B **Ɔ**
- 018E **Ɔ** LATIN CAPITAL LETTER REVERSED E
- = turned e
  - Pan-Nigerian alphabet
  - lowercase is 01DD **Ɔ**

- 018F **Ɔ** LATIN CAPITAL LETTER SCHWA
- Azerbaijani, ...
  - 0259 **Ɔ** latin small letter schwa
  - 04D8 **Ɔ** cyrillic capital letter schwa
- 0190 **Ɔ** LATIN CAPITAL LETTER OPEN E
- = epsilon
  - African
  - 025B **Ɔ** latin small letter open e
  - 2107 **Ɔ** euler constant
- 0191 **Ɔ** LATIN CAPITAL LETTER F WITH HOOK
- African
- 0192 **Ɔ** LATIN SMALL LETTER F WITH HOOK
- = script f
  - = Florin currency symbol (Netherlands)
  - = function symbol
  - used as abbreviation convention for folder
- 0193 **Ɔ** LATIN CAPITAL LETTER G WITH HOOK
- African
  - 0260 **Ɔ** latin small letter g with hook
- 0194 **Ɔ** LATIN CAPITAL LETTER GAMMA
- African
  - 0263 **Ɔ** latin small letter gamma
- 0195 **Ɔ** LATIN SMALL LETTER HV
- Gothic transliteration
  - uppercase is 01F6 **Ɔ**
- 0196 **Ɔ** LATIN CAPITAL LETTER IOTA
- African
  - 0269 **Ɔ** latin small letter iota
- 0197 **Ɔ** LATIN CAPITAL LETTER I WITH STROKE
- = barred i, i bar
  - African
  - lowercase is 0268 **Ɔ**
  - ISO 6438 gives lowercase as 026A, not 0268
  - 026A **Ɔ** latin letter small capital i
- 0198 **Ɔ** LATIN CAPITAL LETTER K WITH HOOK
- 0199 **Ɔ** LATIN SMALL LETTER K WITH HOOK
- Hausa, Pan-Nigerian alphabet
- 019A **Ɔ** LATIN SMALL LETTER L WITH BAR
- = barred l
  - Americanist phonetic usage for 026C **Ɔ**
  - 0142 **Ɔ** latin small letter l with stroke
  - 023D **Ɔ** latin capital letter l with bar
- 019B **Ɔ** LATIN SMALL LETTER LAMBDA WITH STROKE
- = barred lambda, lambda bar
  - Americanist phonetic usage
- 019C **Ɔ** LATIN CAPITAL LETTER TURNED M
- Zhuang (old orthography)
  - 026F **Ɔ** latin small letter turned m
- 019D **Ɔ** LATIN CAPITAL LETTER N WITH LEFT HOOK
- African
  - 0272 **Ɔ** latin small letter n with left hook
- 019E **Ɔ** LATIN SMALL LETTER N WITH LONG RIGHT LEG
- archaic phonetic for Japanese 3093 **Ɔ**
  - recommended spelling for syllabic n is 006E **Ɔ** 0329 **Ɔ**
  - Lakota (indicates nasalization of vowel)
  - 0220 **Ɔ** latin capital letter n with long right leg

019F	Ō	LATIN CAPITAL LETTER O WITH MIDDLE TILDE = barred o, o bar • lowercase is 0275 ȯ • African → 04E8 Ȫ cyrillic capital letter barred o	01B1	Ŭ	LATIN CAPITAL LETTER UPSILON • African • typographically based on turned capital Greek omega → 028A Ƶ latin small letter upsilon → 2127 ƶ inverted ohm sign
01A0	Ȫ	LATIN CAPITAL LETTER O WITH HORN ≡ 004F Ȫ 031B Ȫ	01B2	Ƶ	LATIN CAPITAL LETTER V WITH HOOK = script v • African → 028B ƶ latin small letter v with hook
01A1	ȫ	LATIN SMALL LETTER O WITH HORN • Vietnamese ≡ 006F ȫ 031B ȫ	01B3	ƶ	LATIN CAPITAL LETTER Y WITH HOOK • a glyph variant with hook at the left also occurs
01A2	Ɔ	LATIN CAPITAL LETTER OI × LATIN CAPITAL LETTER GHA	01B4	Ʒ	LATIN SMALL LETTER Y WITH HOOK • Bini, Esoko, and other Edo languages in West Africa
01A3	Ɔ	LATIN SMALL LETTER OI × LATIN SMALL LETTER GHA • Pan-Turkic Latin alphabets	01B5	Ʒ	LATIN CAPITAL LETTER Z WITH STROKE
01A4	Ɔ	LATIN CAPITAL LETTER P WITH HOOK	01B6	Ʒ	LATIN SMALL LETTER Z WITH STROKE = barred z, z bar • Pan-Turkic Latin orthography • handwritten variant of Latin “z” → 007A Ʒ latin small letter z
01A5	Ɔ	LATIN SMALL LETTER P WITH HOOK • African	01B7	Ʒ	LATIN CAPITAL LETTER EZH • African, Skolt Sami • lowercase is 0292 Ʒ → 021C Ʒ latin capital letter yogh → 04E0 Ʒ cyrillic capital letter abkhassian dze
01A6	Ɔ	LATIN LETTER YR • Old Norse • from German Standard DIN 31624 and ISO 5246-2 • lowercase is 0280 Ɔ	01B8	Ʒ	LATIN CAPITAL LETTER EZH REVERSED
01A7	Ʒ	LATIN CAPITAL LETTER TONE TWO	01B9	Ʒ	LATIN SMALL LETTER EZH REVERSED • archaic phonetic for voiced pharyngeal fricative • sometimes typographically rendered with a turned digit 3 • recommended spelling 0295 Ʒ → 0295 Ʒ latin letter pharyngeal voiced fricative → 0639 Ʒ arabic letter ain
01A8	Ʒ	LATIN SMALL LETTER TONE TWO • Zhuang (old orthography) • typographically a reversed S → 0185 Ʒ latin small letter tone six	01BA	Ʒ	LATIN SMALL LETTER EZH WITH TAIL • archaic phonetic for labialized voiced palatoalveolar or palatal fricative • Twi • recommended spellings 0292 Ʒ 02B7 Ʒ or 006A Ʒ 02B7 Ʒ
01A9	Ʒ	LATIN CAPITAL LETTER ESH • African → 0283 Ʒ latin small letter esh → 03A3 Ʒ greek capital letter sigma	01BB	Ʒ	LATIN LETTER TWO WITH STROKE • archaic phonetic for [dz] affricate • recommended spellings 0292 Ʒ or 0064 Ʒ 007A Ʒ
01AA	Ʒ	LATIN LETTER REVERSED ESH LOOP • archaic phonetic for labialized palatoalveolar or palatal fricative • Twi • recommended spellings 0283 Ʒ 02B7 Ʒ, 00E7 Ʒ 02B7 Ʒ, 0068 Ʒ 0265 Ʒ, etc.	01BC	Ʒ	LATIN CAPITAL LETTER TONE FIVE
01AB	Ʒ	LATIN SMALL LETTER T WITH PALATAL HOOK • archaic phonetic for palatalized alveolar or dental stop • recommended spelling 0074 Ʒ 02B2 Ʒ	01BD	Ʒ	LATIN SMALL LETTER TONE FIVE • Zhuang (old orthography) → 0185 Ʒ latin small letter tone six
01AC	Ʒ	LATIN CAPITAL LETTER T WITH HOOK • a glyph variant with hook at the right also occurs	01BE	Ʒ	LATIN LETTER INVERTED GLOTTAL STOP WITH STROKE • archaic phonetic for [ts] affricate • recommended spelling 0074 Ʒ 0073 Ʒ • letter form is actually derived from ligation of ts, rather than inverted glottal stop
01AD	Ʒ	LATIN SMALL LETTER T WITH HOOK • African			
01AE	Ʒ	LATIN CAPITAL LETTER T WITH RETROFLEX HOOK • African → 0288 Ʒ latin small letter t with retroflex hook			
01AF	Ʒ	LATIN CAPITAL LETTER U WITH HORN ≡ 0055 Ʒ 031B Ʒ			
01B0	Ʒ	LATIN SMALL LETTER U WITH HORN • Vietnamese ≡ 0075 Ʒ 031B Ʒ			

- 01BF p LATIN LETTER WYNN  
 = wen  
 • Runic letter borrowed into Latin script  
 • replaced by “w” in modern transcriptions of Old English  
 • uppercase is 01F7 Þ  
 → 16B9 ꝥ runic letter wunjo wygn w

**African letters for clicks**

- 01C0 | LATIN LETTER DENTAL CLICK  
 = pipe  
 • Khoisan tradition  
 • “c” in Zulu orthography  
 → 002F / solidus  
 → 007C | vertical line  
 → 0287 ɿ latin small letter turned t  
 → 2223 | divides
- 01C1 || LATIN LETTER LATERAL CLICK  
 = double pipe  
 • Khoisan tradition  
 • “x” in Zulu orthography  
 → 0296 ɬ latin letter inverted glottal stop  
 → 2225 || parallel to
- 01C2 † LATIN LETTER ALVEOLAR CLICK  
 = double-barred pipe  
 = palatoalveolar click (IPA)  
 • Khoisan tradition  
 → 2260 ≠ not equal to
- 01C3 ! LATIN LETTER RETROFLEX CLICK  
 = latin letter exclamation mark (1.0)  
 = (post)alveolar click (IPA)  
 • Khoisan tradition  
 • “q” in Zulu orthography  
 → 0021 ! exclamation mark  
 → 0297 ɕ latin letter stretched c

**Croatian digraphs matching Serbian Cyrillic letters**

- 01C4 DŽ LATIN CAPITAL LETTER DZ WITH CARON  
 ≈ 0044 D 017D Ž
- 01C5 Dž LATIN CAPITAL LETTER D WITH SMALL LETTER Z WITH CARON  
 ≈ 0044 D 017E ž
- 01C6 dž LATIN SMALL LETTER DZ WITH CARON  
 → 045F ɱ cyrillic small letter dzhe  
 ≈ 0064 d 017E ž
- 01C7 LJ LATIN CAPITAL LETTER LJ  
 ≈ 004C L 004A J
- 01C8 Lj LATIN CAPITAL LETTER L WITH SMALL LETTER J  
 ≈ 004C L 006A j
- 01C9 lj LATIN SMALL LETTER LJ  
 → 0459 љ cyrillic small letter lje  
 ≈ 006C l 006A j
- 01CA NJ LATIN CAPITAL LETTER NJ  
 ≈ 004E N 004A J
- 01CB Nj LATIN CAPITAL LETTER N WITH SMALL LETTER J  
 ≈ 004E N 006A j
- 01CC nj LATIN SMALL LETTER NJ  
 → 045A њ cyrillic small letter nje  
 ≈ 006E n 006A j

**Pinyin diacritic-vowel combinations**

- 01CD Ä LATIN CAPITAL LETTER A WITH CARON  
 ≈ 0041 A 030C Ǻ
- 01CE ä LATIN SMALL LETTER A WITH CARON  
 • Pinyin third tone  
 ≈ 0061 a 030C ǻ
- 01CF Ĩ LATIN CAPITAL LETTER I WITH CARON  
 ≈ 0049 I 030C Ǫ
- 01D0 ĩ LATIN SMALL LETTER I WITH CARON  
 • Pinyin third tone  
 ≈ 0069 i 030C ǻ
- 01D1 Ŏ LATIN CAPITAL LETTER O WITH CARON  
 ≈ 004F O 030C Ǫ
- 01D2 ŏ LATIN SMALL LETTER O WITH CARON  
 • Pinyin third tone  
 ≈ 006F o 030C ǻ
- 01D3 Ũ LATIN CAPITAL LETTER U WITH CARON  
 ≈ 0055 U 030C Ǫ
- 01D4 ŭ LATIN SMALL LETTER U WITH CARON  
 • Pinyin third tone  
 ≈ 0075 u 030C ǻ
- 01D5 Ü LATIN CAPITAL LETTER U WITH DIAERESIS AND MACRON  
 ≈ 00DC Ü 0304 ̄
- 01D6 ü LATIN SMALL LETTER U WITH DIAERESIS AND MACRON  
 • Pinyin first tone  
 ≈ 00FC ü 0304 ̄
- 01D7 Ů LATIN CAPITAL LETTER U WITH DIAERESIS AND ACUTE  
 ≈ 00DC Ü 0301 ́
- 01D8 ú LATIN SMALL LETTER U WITH DIAERESIS AND ACUTE  
 • Pinyin second tone  
 ≈ 00FC ü 0301 ́
- 01D9 Ű LATIN CAPITAL LETTER U WITH DIAERESIS AND CARON  
 ≈ 00DC Ü 030C Ǻ
- 01DA ű LATIN SMALL LETTER U WITH DIAERESIS AND CARON  
 • Pinyin third tone  
 ≈ 00FC ü 030C ǻ
- 01DB Ū LATIN CAPITAL LETTER U WITH DIAERESIS AND GRAVE  
 ≈ 00DC Ü 0300 ̀
- 01DC ù LATIN SMALL LETTER U WITH DIAERESIS AND GRAVE  
 • Pinyin fourth tone  
 ≈ 00FC ü 0300 ̀

**Phonetic and historic letters**

- 01DD ə LATIN SMALL LETTER TURNED E  
 • Pan-Nigerian alphabet  
 • all other usages of schwa are 0259 ə  
 • uppercase is 018E Ǝ  
 → 0259 ə latin small letter schwa
- 01DE Ä LATIN CAPITAL LETTER A WITH DIAERESIS AND MACRON  
 ≈ 00C4 Ä 0304 ̄

01DF	ā	LATIN SMALL LETTER A WITH DIAERESIS AND MACRON • Livonian, Uralicist usage ≡ 00E4 ä 0304 ̄
01E0	Ā	LATIN CAPITAL LETTER A WITH DOT ABOVE AND MACRON ≡ 0226 Ā 0304 ̄
01E1	ḁ	LATIN SMALL LETTER A WITH DOT ABOVE AND MACRON • Uralicist usage ≡ 0227 ḁ 0304 ̄
01E2	Æ	LATIN CAPITAL LETTER AE WITH MACRON ≡ 00C6 Æ 0304 ̄
01E3	æ	LATIN SMALL LETTER AE WITH MACRON • Old Norse, Old English ≡ 00E6 æ 0304 ̄
01E4	G	LATIN CAPITAL LETTER G WITH STROKE
01E5	g	LATIN SMALL LETTER G WITH STROKE • Skolt Sami
01E6	Ġ	LATIN CAPITAL LETTER G WITH CARON ≡ 0047 Ġ 030C ̂
01E7	ġ	LATIN SMALL LETTER G WITH CARON • Skolt Sami → 011F ġ latin small letter g with breve ≡ 0067 g 030C ̂
01E8	Ķ	LATIN CAPITAL LETTER K WITH CARON ≡ 004B Ķ 030C ̂
01E9	ķ	LATIN SMALL LETTER K WITH CARON • Skolt Sami ≡ 006B ķ 030C ̂
01EA	Q	LATIN CAPITAL LETTER O WITH OGONEK ≡ 004F Q 0328 ˆ
01EB	q	LATIN SMALL LETTER O WITH OGONEK • Sami, Iroquoian, Old Icelandic ≡ 006F q 0328 ˆ
01EC	Ų	LATIN CAPITAL LETTER O WITH OGONEK AND MACRON ≡ 01EA Q 0304 ̄
01ED	ū	LATIN SMALL LETTER O WITH OGONEK AND MACRON • Old Icelandic ≡ 01EB q 0304 ̄
01EE	Ž	LATIN CAPITAL LETTER EZH WITH CARON ≡ 01B7 Ž 030C ̂
01EF	ž	LATIN SMALL LETTER EZH WITH CARON • Skolt Sami ≡ 0292 ž 030C ̂
01F0	ĵ	LATIN SMALL LETTER J WITH CARON • IPA and many languages ≡ 006A j 030C ̂
01F1	DZ	LATIN CAPITAL LETTER DZ ≈ 0044 D 005A Z
01F2	Dz	LATIN CAPITAL LETTER D WITH SMALL LETTER Z ≈ 0044 D 007A z
01F3	dz	LATIN SMALL LETTER DZ ≈ 0064 d 007A z
01F4	Ģ	LATIN CAPITAL LETTER G WITH ACUTE ≡ 0047 G 0301 ́

01F5	ġ	LATIN SMALL LETTER G WITH ACUTE • Macedonian and Serbian transliteration ≡ 0067 g 0301 ́
01F6	Hu	LATIN CAPITAL LETTER HWAIR • lowercase is 0195 hu
01F7	P	LATIN CAPITAL LETTER WYNN = wen • lowercase is 01BF p
01F8	Ñ	LATIN CAPITAL LETTER N WITH GRAVE ≡ 004E Ñ 0300 ̀
01F9	ñ	LATIN SMALL LETTER N WITH GRAVE • Pinyin ≡ 006E n 0300 ̀
01FA	Å	LATIN CAPITAL LETTER A WITH RING ABOVE AND ACUTE ≡ 00C5 Å 0301 ́
01FB	Ǻ	LATIN SMALL LETTER A WITH RING ABOVE AND ACUTE ≡ 00E5 Ǻ 0301 ́
01FC	Æ	LATIN CAPITAL LETTER AE WITH ACUTE ≡ 00C6 Æ 0301 ́
01FD	æ	LATIN SMALL LETTER AE WITH ACUTE ≡ 00E6 æ 0301 ́
01FE	Ø	LATIN CAPITAL LETTER O WITH STROKE AND ACUTE ≡ 00D8 Ø 0301 ́
01FF	ø	LATIN SMALL LETTER O WITH STROKE AND ACUTE ≡ 00F8 ø 0301 ́

**Additions for Slovenian and Croatian**

0200	À	LATIN CAPITAL LETTER A WITH DOUBLE GRAVE ≡ 0041 A 030F ͂
0201	à	LATIN SMALL LETTER A WITH DOUBLE GRAVE ≡ 0061 a 030F ͂
0202	Â	LATIN CAPITAL LETTER A WITH INVERTED BREVE ≡ 0041 A 0311 ̂
0203	â	LATIN SMALL LETTER A WITH INVERTED BREVE ≡ 0061 a 0311 ̂
0204	È	LATIN CAPITAL LETTER E WITH DOUBLE GRAVE ≡ 0045 E 030F ͂
0205	è	LATIN SMALL LETTER E WITH DOUBLE GRAVE ≡ 0065 e 030F ͂
0206	Ê	LATIN CAPITAL LETTER E WITH INVERTED BREVE ≡ 0045 E 0311 ̂
0207	ê	LATIN SMALL LETTER E WITH INVERTED BREVE ≡ 0065 e 0311 ̂
0208	Ì	LATIN CAPITAL LETTER I WITH DOUBLE GRAVE ≡ 0049 I 030F ͂
0209	ì	LATIN SMALL LETTER I WITH DOUBLE GRAVE ≡ 0069 i 030F ͂
020A	Î	LATIN CAPITAL LETTER I WITH INVERTED BREVE ≡ 0049 I 0311 ̂
020B	î	LATIN SMALL LETTER I WITH INVERTED BREVE ≡ 0069 i 0311 ̂
020C	Ò	LATIN CAPITAL LETTER O WITH DOUBLE GRAVE ≡ 004F O 030F ͂

## 020D

## Latin Extended-B

## 0239

020D	ð	LATIN SMALL LETTER O WITH DOUBLE GRAVE ≡ 006F o 030F ̈ð
020E	Ô	LATIN CAPITAL LETTER O WITH INVERTED BREVE ≡ 004F O 0311 ̆
020F	ô	LATIN SMALL LETTER O WITH INVERTED BREVE ≡ 006F o 0311 ̆
0210	Ř	LATIN CAPITAL LETTER R WITH DOUBLE GRAVE ≡ 0052 R 030F ̈Ř
0211	ř	LATIN SMALL LETTER R WITH DOUBLE GRAVE ≡ 0072 r 030F ̈ř
0212	Ŕ	LATIN CAPITAL LETTER R WITH INVERTED BREVE ≡ 0052 R 0311 ̆
0213	ř	LATIN SMALL LETTER R WITH INVERTED BREVE ≡ 0072 r 0311 ̆
0214	Ů	LATIN CAPITAL LETTER U WITH DOUBLE GRAVE ≡ 0055 U 030F ̈Ů
0215	ů	LATIN SMALL LETTER U WITH DOUBLE GRAVE ≡ 0075 u 030F ̈ů
0216	Ů	LATIN CAPITAL LETTER U WITH INVERTED BREVE ≡ 0055 U 0311 ̆
0217	ů	LATIN SMALL LETTER U WITH INVERTED BREVE ≡ 0075 u 0311 ̆

**Additions for Romanian**

0218	Ș	LATIN CAPITAL LETTER S WITH COMMA BELOW ≡ 0053 S 0326 ̣
0219	ș	LATIN SMALL LETTER S WITH COMMA BELOW • Romanian → 015F ș latin small letter s with cedilla ≡ 0073 s 0326 ̣
021A	Ț	LATIN CAPITAL LETTER T WITH COMMA BELOW ≡ 0054 T 0326 ̣
021B	ț	LATIN SMALL LETTER T WITH COMMA BELOW • Romanian → 0163 ț latin small letter t with cedilla ≡ 0074 t 0326 ̣

**Miscellaneous additions**

021C	Ȑ	LATIN CAPITAL LETTER YOGH → 01B7 Ȑ latin capital letter ezh
021D	ȑ	LATIN SMALL LETTER YOGH • Middle English, Scots → 0292 ȑ latin small letter ezh → 1D79 ȑ latin small letter insular g → 2125 ȑ ounce sign
021E	Ĥ	LATIN CAPITAL LETTER H WITH CARON ≡ 0048 H 030C ̂
021F	ĥ	LATIN SMALL LETTER H WITH CARON • Finnish Romany ≡ 0068 h 030C ̂
0220	ŋ	LATIN CAPITAL LETTER N WITH LONG RIGHT LEG • Lakota → 019E ŋ latin small letter n with long right leg
0221	ḏ	LATIN SMALL LETTER D WITH CURL • phonetic use in Sinology

0222	Ů	LATIN CAPITAL LETTER OU
0223	ů	LATIN SMALL LETTER OU • Algonquin, Huron → 0038 8 digit eight
0224	Ȥ	LATIN CAPITAL LETTER Z WITH HOOK
0225	ȥ	LATIN SMALL LETTER Z WITH HOOK • Middle High German
0226	Ā	LATIN CAPITAL LETTER A WITH DOT ABOVE ≡ 0041 A 0307 ̇
0227	ā	LATIN SMALL LETTER A WITH DOT ABOVE • Uralicist usage ≡ 0061 a 0307 ̇
0228	Ė	LATIN CAPITAL LETTER E WITH CEDILLA ≡ 0045 E 0327 ̣
0229	ė	LATIN SMALL LETTER E WITH CEDILLA ≡ 0065 e 0327 ̣

**Additions for Livonian**

022A	Ȫ	LATIN CAPITAL LETTER O WITH DIAERESIS AND MACRON ≡ 00D6 Ö 0304 ̄
022B	ȫ	LATIN SMALL LETTER O WITH DIAERESIS AND MACRON ≡ 00F6 ö 0304 ̄
022C	Ȭ	LATIN CAPITAL LETTER O WITH TILDE AND MACRON ≡ 00D5 Ō 0304 ̄
022D	ȭ	LATIN SMALL LETTER O WITH TILDE AND MACRON ≡ 00F5 ō 0304 ̄
022E	Ȯ	LATIN CAPITAL LETTER O WITH DOT ABOVE ≡ 004F O 0307 ̇
022F	ȯ	LATIN SMALL LETTER O WITH DOT ABOVE ≡ 006F o 0307 ̇
0230	Ȱ	LATIN CAPITAL LETTER O WITH DOT ABOVE AND MACRON ≡ 022E Ō 0304 ̄
0231	ȱ	LATIN SMALL LETTER O WITH DOT ABOVE AND MACRON ≡ 022F ō 0304 ̄
0232	Ȳ	LATIN CAPITAL LETTER Y WITH MACRON ≡ 0059 Y 0304 ̄
0233	ȳ	LATIN SMALL LETTER Y WITH MACRON • also Cornish ≡ 0079 y 0304 ̄

**Additions for Sinology**

0234	ᳵ	LATIN SMALL LETTER L WITH CURL
0235	ᳶ	LATIN SMALL LETTER N WITH CURL
0236	᳷	LATIN SMALL LETTER T WITH CURL

**Miscellaneous additions**

0237	Ȥ	LATIN SMALL LETTER DOTLESS J → 1D6A5 Ȥ mathematical italic small dotless j
0238	Ḑ	LATIN SMALL LETTER DB DIGRAPH • used in Africanist linguistics
0239	ḑ	LATIN SMALL LETTER QP DIGRAPH • used in Africanist linguistics

- 023A **À** LATIN CAPITAL LETTER A WITH STROKE
- Sencoten
  - lowercase is 2C65 **à**
- 023B **Ç** LATIN CAPITAL LETTER C WITH STROKE
- Sencoten
- 023C **ç** LATIN SMALL LETTER C WITH STROKE
- used in Americanist linguistics
- 023D **Ĺ** LATIN CAPITAL LETTER L WITH BAR
- Sencoten
  - lowercase is 019A **ĺ**
- 023E **Ŧ** LATIN CAPITAL LETTER T WITH DIAGONAL STROKE
- Sencoten
  - lowercase is 2C66 **ŧ**
- 023F **Œ** LATIN SMALL LETTER S WITH SWASH TAIL
- uppercase is 2C7E **Œ**
- 0240 **Ƶ** LATIN SMALL LETTER Z WITH SWASH TAIL
- uppercase is 2C7F **ƶ**
- 0241 **ʔ** LATIN CAPITAL LETTER GLOTTAL STOP
- 0242 **ɀ** LATIN SMALL LETTER GLOTTAL STOP
- casing use in Chipewyan, Dogrib, Slavey (Canadian aboriginal orthographies)
  - 0294 **ʔ** latin letter glottal stop
  - 02C0 **ʔ** modifier letter glottal stop
- 0243 **Ɓ** LATIN CAPITAL LETTER B WITH STROKE
- lowercase is 0180 **ɓ**
- 0244 **Ʊ** LATIN CAPITAL LETTER U BAR
- lowercase is 0289 **ɯ**
- 0245 **Λ** LATIN CAPITAL LETTER TURNED V
- lowercase is 028C **λ**
- 0246 **Ǝ** LATIN CAPITAL LETTER E WITH STROKE
- 0247 **ɛ̃** LATIN SMALL LETTER E WITH STROKE
- 0248 **Ɔ** LATIN CAPITAL LETTER J WITH STROKE
- 0249 **ɔ̃** LATIN SMALL LETTER J WITH STROKE
- 024A **Ɔ** LATIN CAPITAL LETTER SMALL Q WITH HOOK TAIL
- 024B **ɔ̃** LATIN SMALL LETTER Q WITH HOOK TAIL
- 024C **Ŕ** LATIN CAPITAL LETTER R WITH STROKE
- 024D **ɣ** LATIN SMALL LETTER R WITH STROKE
- 024E **Ƴ** LATIN CAPITAL LETTER Y WITH STROKE
- 024F **ɣ̃** LATIN SMALL LETTER Y WITH STROKE

	025	026	027	028	029	02A
0	ɐ 0250	ɟ 0260	ɥ 0270	ʀ 0280	ʐ 0290	ɕ 02A0
1	ɑ 0251	ɡ 0261	ŋ 0271	ʁ 0281	ʑ 0291	ʑ̥ 02A1
2	ɒ 0252	ɠ 0262	ɲ 0272	ʂ 0282	ʑ̥ 0292	ɕ̥ 02A2
3	ɓ 0253	ɣ 0263	ɳ 0273	ʃ 0283	ʒ 0293	ɗ 02A3
4	ɔ̥ 0254	ɣ̥ 0264	ɴ 0274	ʃ̥ 0284	ʒ̥ 0294	ɗ̥ 02A4
5	ɕ 0255	ɥ̥ 0265	ɵ 0275	ɭ 0285	ɮ 0295	ɗ̥ 02A5
6	ɖ 0256	ɦ 0266	æ 0276	ɮ̥ 0286	ɮ̥ 0296	ɮ̥ 02A6
7	ɖ̥ 0257	ɦ̥ 0267	ω 0277	ɭ̥ 0287	ɮ̥ 0297	ɮ̥ 02A7
8	ə̥ 0258	ɨ̥ 0268	ϕ 0278	ɮ̥ 0288	⊙ 0298	ɮ̥ 02A8
9	ə̥ 0259	ɭ̥ 0269	ɮ̥ 0279	ɮ̥ 0289	ɮ̥ 0299	ɮ̥ 02A9
A	ɮ̥ 025A	ɮ̥ 026A	ɮ̥ 027A	ɮ̥ 028A	ɮ̥ 029A	ɮ̥ 02AA
B	ɮ̥ 025B	ɮ̥ 026B	ɮ̥ 027B	ɮ̥ 028B	ɮ̥ 029B	ɮ̥ 02AB
C	ɮ̥ 025C	ɮ̥ 026C	ɮ̥ 027C	ɮ̥ 028C	ɮ̥ 029C	ɮ̥ 02AC
D	ɮ̥ 025D	ɮ̥ 026D	ɮ̥ 027D	ɮ̥ 028D	ɮ̥ 029D	ɮ̥ 02AD
E	ɮ̥ 025E	ɮ̥ 026E	ɮ̥ 027E	ɮ̥ 028E	ɮ̥ 029E	ɮ̥ 02AE
F	ɮ̥ 025F	ɮ̥ 026F	ɮ̥ 027F	ɮ̥ 028F	ɮ̥ 029F	ɮ̥ 02AF

**IPA extensions**

*IPA includes basic Latin letters and a number of Latin or Greek letters from other blocks.*

- 00E6 æ latin small letter ae  
 → 00E7 ċ latin small letter c with cedilla  
 → 00F0 ð latin small letter eth  
 → 00F8 ø latin small letter o with stroke  
 → 0127 ħ latin small letter h with stroke  
 → 014B ŋ latin small letter eng  
 → 0153 œ latin small ligature oe  
 → 03B2 β greek small letter beta  
 → 03B8 θ greek small letter theta  
 → 03BB λ greek small letter lamda  
 → 03C7 χ greek small letter chi
- 0250 Ƶ **LATIN SMALL LETTER TURNED A**  
 • low central unrounded vowel  
 • uppercase is 2C6F V
- 0251 α **LATIN SMALL LETTER ALPHA**  
 = latin small letter script a (1.0)  
 • low back unrounded vowel  
 • uppercase is 2C6D A  
 → 03B1 α greek small letter alpha
- 0252 ɒ **LATIN SMALL LETTER TURNED ALPHA**  
 • low back rounded vowel  
 • uppercase is 2C70 D
- 0253 ɓ **LATIN SMALL LETTER B WITH HOOK**  
 • implosive bilabial stop  
 • Pan-Nigerian alphabet  
 → 0181 B latin capital letter b with hook
- 0254 ɔ̥ **LATIN SMALL LETTER OPEN O**  
 • typographically a turned c  
 • lower-mid back rounded vowel  
 → 0186 O latin capital letter open o
- 0255 ɕ **LATIN SMALL LETTER C WITH CURL**  
 • voiceless alveolo-palatal laminal fricative  
 • used in transcription of Mandarin Chinese  
 • sound spelled with 015B ś in Polish
- 0256 ɖ **LATIN SMALL LETTER D WITH TAIL**  
 = d retroflex hook  
 • voiced retroflex stop  
 → 0189 D latin capital letter african d
- 0257 ɗ **LATIN SMALL LETTER D WITH HOOK**  
 • implosive dental or alveolar stop  
 • Ewe, Pan-Nigerian alphabet  
 → 018A D latin capital letter d with hook
- 0258 ɘ **LATIN SMALL LETTER REVERSED E**  
 • upper-mid central unrounded vowel
- 0259 ə **LATIN SMALL LETTER SCHWA**  
 • mid-central unrounded vowel  
 • variant uppercase form 018E ɐ is associated with 01DD ɐ  
 → 018F ɐ latin capital letter schwa  
 → 01DD ɐ latin small letter turned e  
 → 04D9 ɐ cyrillic small letter schwa
- 025A ɤ̥ **LATIN SMALL LETTER SCHWA WITH HOOK**  
 • rhotacized schwa

- 025B ɛ **LATIN SMALL LETTER OPEN E**  
 = epsilon  
 • lower-mid front unrounded vowel  
 → 0190 E latin capital letter open e  
 → 03B5 ε greek small letter epsilon
- 025C ɜ **LATIN SMALL LETTER REVERSED OPEN E**  
 • lower-mid central unrounded vowel
- 025D ɜ̥ **LATIN SMALL LETTER REVERSED OPEN E WITH HOOK**  
 • rhotacized lower-mid central vowel
- 025E ɜ̥ **LATIN SMALL LETTER CLOSED REVERSED OPEN E**  
 = closed reversed epsilon  
 • lower-mid central rounded vowel
- 025F ɟ **LATIN SMALL LETTER DOTLESS J WITH STROKE**  
 • voiced palatal stop  
 • typographically a turned f, but better thought of as a form of j  
 • “gy” in Hungarian orthography  
 • also archaic phonetic for palatoalveolar affricate 02A4 ɟʝ
- 0260 ɠ **LATIN SMALL LETTER G WITH HOOK**  
 • implosive velar stop  
 → 0193 G latin capital letter g with hook
- 0261 ɡ **LATIN SMALL LETTER SCRIPT G**  
 • voiced velar stop  
 → 0067 g latin small letter g
- 0262 ɢ **LATIN LETTER SMALL CAPITAL G**  
 • voiced uvular stop
- 0263 ɣ **LATIN SMALL LETTER GAMMA**  
 • voiced velar fricative  
 → 0194 Y latin capital letter gamma  
 → 03B3 γ greek small letter gamma
- 0264 ɣ̥ **LATIN SMALL LETTER RAMS HORN**  
 = latin small letter baby gamma (1.0)  
 • upper-mid back unrounded vowel
- 0265 ɥ **LATIN SMALL LETTER TURNED H**  
 • voiced rounded palatal approximant
- 0266 ɦ **LATIN SMALL LETTER H WITH HOOK**  
 • breathy-voiced glottal fricative  
 → 02B1 ɦ modifier letter small h with hook
- 0267 ɧ **LATIN SMALL LETTER HENG WITH HOOK**  
 • voiceless coarticulated velar and palatoalveolar fricative  
 • “tj” or “kj” or “sj” in some Swedish dialects
- 0268 ı̇ **LATIN SMALL LETTER I WITH STROKE**  
 = barred i, i bar  
 • high central unrounded vowel  
 • uppercase is 0197 İ  
 • ISO 6438 gives lowercase of 0197 as 026A, not 0268
- 0269 ɪ̇ **LATIN SMALL LETTER IOTA**  
 • semi-high front unrounded vowel  
 • obsoleted by IPA in 1989  
 • preferred use is 026A I latin letter small capital i  
 → 0196 I latin capital letter iota  
 → 03B9 ι greek small letter iota



<p><b>026A</b>    <b>ɪ</b>    <b>LATIN LETTER SMALL CAPITAL I</b></p> <ul style="list-style-type: none"> <li>• semi-high front unrounded vowel</li> <li>• preferred IPA alternate for 0269 <b>ɿ</b></li> <li>→ 0197 <b>İ</b> latin capital letter i with stroke</li> </ul> <p><b>026B</b>    <b>ł</b>    <b>LATIN SMALL LETTER L WITH MIDDLE TILDE</b></p> <ul style="list-style-type: none"> <li>• velarized voiced alveolar lateral approximant</li> <li>• uppercase is 2C62 <b>Ł</b></li> </ul> <p><b>026C</b>    <b>ɭ</b>    <b>LATIN SMALL LETTER L WITH BELT</b></p> <ul style="list-style-type: none"> <li>• voiceless alveolar lateral fricative</li> </ul> <p><b>026D</b>    <b>ɮ</b>    <b>LATIN SMALL LETTER L WITH RETROFLEX HOOK</b></p> <ul style="list-style-type: none"> <li>• voiced retroflex lateral</li> </ul> <p><b>026E</b>    <b>ɬ</b>    <b>LATIN SMALL LETTER LEZH</b></p> <ul style="list-style-type: none"> <li>• voiced lateral fricative</li> <li>• “dhl” in Zulu orthography</li> </ul> <p><b>026F</b>    <b>ʉ</b>    <b>LATIN SMALL LETTER TURNED M</b></p> <ul style="list-style-type: none"> <li>• high back unrounded vowel</li> <li>→ 019C <b>Ũ</b> latin capital letter turned m</li> </ul> <p><b>0270</b>    <b>ʋ</b>    <b>LATIN SMALL LETTER TURNED M WITH LONG LEG</b></p> <ul style="list-style-type: none"> <li>• voiced velar approximant</li> </ul> <p><b>0271</b>    <b>ɱ</b>    <b>LATIN SMALL LETTER M WITH HOOK</b></p> <ul style="list-style-type: none"> <li>• voiced labiodental nasal</li> <li>• uppercase is 2C6E <b>M̊</b></li> </ul> <p><b>0272</b>    <b>ɲ</b>    <b>LATIN SMALL LETTER N WITH LEFT HOOK</b></p> <ul style="list-style-type: none"> <li>• voiced palatal nasal</li> <li>→ 019D <b>N̐</b> latin capital letter n with left hook</li> </ul> <p><b>0273</b>    <b>ɳ</b>    <b>LATIN SMALL LETTER N WITH RETROFLEX HOOK</b></p> <ul style="list-style-type: none"> <li>• voiced retroflex nasal</li> </ul> <p><b>0274</b>    <b>ɴ</b>    <b>LATIN LETTER SMALL CAPITAL N</b></p> <ul style="list-style-type: none"> <li>• voiced uvular nasal</li> </ul> <p><b>0275</b>    <b>ɵ</b>    <b>LATIN SMALL LETTER BARRED O</b></p> <ul style="list-style-type: none"> <li>= o bar</li> <li>• rounded mid-central vowel, i.e. rounded schwa</li> <li>• uppercase is 019F <b>Θ</b></li> <li>→ 0388 <b>θ</b> greek small letter theta</li> <li>→ 0473 <b>ө</b> cyrillic small letter fita</li> <li>→ 04E9 <b>ӧ</b> cyrillic small letter barred o</li> </ul> <p><b>0276</b>    <b>œ</b>    <b>LATIN LETTER SMALL CAPITAL OE</b></p> <ul style="list-style-type: none"> <li>• low front rounded vowel</li> <li>→ 0153 <b>æ</b> latin small ligature oe</li> </ul> <p><b>0277</b>    <b>ω</b>    <b>LATIN SMALL LETTER CLOSED OMEGA</b></p> <ul style="list-style-type: none"> <li>• semi-high back rounded vowel</li> <li>• obsoleted by IPA in 1989</li> <li>• preferred use is 028A <b>υ</b> latin small letter upsilon</li> </ul> <p><b>0278</b>    <b>φ</b>    <b>LATIN SMALL LETTER PHI</b></p> <ul style="list-style-type: none"> <li>• voiceless bilabial fricative</li> <li>→ 03C6 <b>ϕ</b> greek small letter phi</li> </ul> <p><b>0279</b>    <b>ɹ</b>    <b>LATIN SMALL LETTER TURNED R</b></p> <ul style="list-style-type: none"> <li>• voiced alveolar approximant</li> <li>→ 02B4 <b>ⱥ</b> modifier letter small turned r</li> </ul> <p><b>027A</b>    <b>ɺ</b>    <b>LATIN SMALL LETTER TURNED R WITH LONG LEG</b></p> <ul style="list-style-type: none"> <li>• voiced lateral flap</li> </ul> <p><b>027B</b>    <b>ɻ</b>    <b>LATIN SMALL LETTER TURNED R WITH HOOK</b></p> <ul style="list-style-type: none"> <li>• voiced retroflex approximant</li> <li>→ 02B5 <b>ⱦ</b> modifier letter small turned r with hook</li> </ul>	<p><b>027C</b>    <b>ɽ</b>    <b>LATIN SMALL LETTER R WITH LONG LEG</b></p> <ul style="list-style-type: none"> <li>• voiced strident apico-alveolar trill</li> <li>• obsoleted by IPA in 1989</li> <li>• sound spelled with 0159 <b>ř</b> in Czech</li> <li>• preferred phonetic representation for Czech is 0072 <b>ɾ</b> 031D <b>Ꞥ</b></li> <li>• in current use in Gaelic types (as glyph variant of 0072 <b>ɾ</b>)</li> </ul> <p><b>027D</b>    <b>ɿ</b>    <b>LATIN SMALL LETTER R WITH TAIL</b></p> <ul style="list-style-type: none"> <li>• voiced retroflex flap</li> <li>• uppercase is 2C64 <b>Ṛ</b></li> </ul> <p><b>027E</b>    <b>ɽ</b>    <b>LATIN SMALL LETTER R WITH FISHHOOK</b></p> <ul style="list-style-type: none"> <li>• voiced alveolar flap or tap</li> </ul> <p><b>027F</b>    <b>ɺ</b>    <b>LATIN SMALL LETTER REVERSED R WITH FISHHOOK</b></p> <ul style="list-style-type: none"> <li>= long leg turned iota (a misnomer)</li> <li>• apical dental vowel</li> <li>• used by linguists working on Chinese and other Sino-Tibetan languages</li> <li>• IPA spelling - 007A <b>ɹ</b> 0329 <b>ꞣ</b></li> <li>• preferred presentation is with a descender</li> </ul> <p><b>0280</b>    <b>ʀ</b>    <b>LATIN LETTER SMALL CAPITAL R</b></p> <ul style="list-style-type: none"> <li>• voiced uvular trill</li> <li>• Germanic, Old Norse</li> <li>• uppercase is 01A6 <b>R̥</b></li> </ul> <p><b>0281</b>    <b>ɻ</b>    <b>LATIN LETTER SMALL CAPITAL INVERTED R</b></p> <ul style="list-style-type: none"> <li>• voiced uvular fricative or approximant</li> <li>→ 02B6 <b>ⱡ</b> modifier letter small capital inverted r</li> </ul> <p><b>0282</b>    <b>ʂ</b>    <b>LATIN SMALL LETTER S WITH HOOK</b></p> <ul style="list-style-type: none"> <li>• voiceless retroflex fricative</li> </ul> <p><b>0283</b>    <b>ʃ</b>    <b>LATIN SMALL LETTER ESH</b></p> <ul style="list-style-type: none"> <li>• voiceless postalveolar fricative</li> <li>→ 01A9 <b>Σ</b> latin capital letter esh</li> <li>→ 222B <b>∫</b> integral</li> </ul> <p><b>0284</b>    <b>ʄ</b>    <b>LATIN SMALL LETTER DOTLESS J WITH STROKE AND HOOK</b></p> <ul style="list-style-type: none"> <li>• implosive palatal stop</li> <li>• typographically based on 025F <b>Ʒ</b>, not on 0283 <b>ʃ</b></li> </ul> <p><b>0285</b>    <b>ɺ</b>    <b>LATIN SMALL LETTER SQUAT REVERSED ESH</b></p> <ul style="list-style-type: none"> <li>• apical retroflex vowel</li> <li>• used by linguists working on Chinese and other Sino-Tibetan languages</li> <li>• IPA spelling - 0290 <b>ɹ̠</b> 0329 <b>Ꞣ</b></li> <li>• in origin 027F <b>ɺ</b> plus the retroflex hook 0322 <b>ɻ̌</b>, despite its name</li> <li>• preferred presentation is with a descender</li> </ul> <p><b>0286</b>    <b>ɺ̥</b>    <b>LATIN SMALL LETTER ESH WITH CURL</b></p> <ul style="list-style-type: none"> <li>• palatalized voiceless postalveolar fricative</li> <li>• suggested spelling - 0283 <b>ʃ</b> 0282 <b>j̥</b></li> </ul> <p><b>0287</b>    <b>ɸ</b>    <b>LATIN SMALL LETTER TURNED T</b></p> <ul style="list-style-type: none"> <li>• dental click (sound of “tsk tsk”)</li> <li>→ 01C0 <b>ɿ</b> latin letter dental click</li> </ul> <p><b>0288</b>    <b>ɿ</b>    <b>LATIN SMALL LETTER T WITH RETROFLEX HOOK</b></p> <ul style="list-style-type: none"> <li>• voiceless retroflex stop</li> <li>→ 01AE <b>T̡</b> latin capital letter t with retroflex hook</li> </ul> <p><b>0289</b>    <b>ʊ</b>    <b>LATIN SMALL LETTER U BAR</b></p> <ul style="list-style-type: none"> <li>• high central rounded vowel</li> <li>• uppercase is 0244 <b>U̅</b></li> </ul>
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028A	ʊ	<b>LATIN SMALL LETTER UPSILON</b> • semi-high back rounded vowel • preferred IPA alternate to 0277 ɔ → 01B1 Ů latin capital letter upsilon → 03C5 υ greek small letter upsilon
028B	ʋ	<b>LATIN SMALL LETTER V WITH HOOK</b> = latin small letter script v (1.0) • voiced labiodental approximant → 01B2 Ů latin capital letter v with hook → 03C5 υ greek small letter upsilon
028C	ʌ	<b>LATIN SMALL LETTER TURNED V</b> = caret, wedge • lower-mid back unrounded vowel • uppercase is 0245 Λ → 039B Λ greek capital letter lamda → 2038 ʌ caret → 2227 ʌ logical and
028D	ʍ	<b>LATIN SMALL LETTER TURNED W</b> • voiceless rounded labiovelar approximant
028E	ʎ	<b>LATIN SMALL LETTER TURNED Y</b> • voiced lateral approximant
028F	ɣ	<b>LATIN LETTER SMALL CAPITAL Y</b> • semi-high front rounded vowel
0290	ɮ	<b>LATIN SMALL LETTER Z WITH RETROFLEX HOOK</b> • voiced retroflex fricative
0291	ɹ	<b>LATIN SMALL LETTER Z WITH CURL</b> • voiced alveolo-palatal laminal fricative • sound spelled with 017A Ż in Polish
0292	ɺ	<b>LATIN SMALL LETTER EZH</b> = dram • voiced postalveolar fricative • mistakenly named yogh in Unicode 1.0 • uppercase is 01B7 Ƶ • Skolt Sami → 021D ɺ latin small letter yogh → 04E1 ɺ cyrillic small letter abkhassian dze → 2125 ɺ ounce sign
0293	ɻ	<b>LATIN SMALL LETTER EZH WITH CURL</b> • palatalized voiced postalveolar fricative
0294	ʔ	<b>LATIN LETTER GLOTTAL STOP</b> • this is a caseless letter • used in IPA, other phonetic notations, and those orthographies which use a caseless glottal stop → 0241 ʔ latin capital letter glottal stop → 02C0 ʔ modifier letter glottal stop
0295	ʕ	<b>LATIN LETTER PHARYNGEAL VOICED FRICATIVE</b> = reversed glottal stop • voiced pharyngeal fricative • ain → 01B9 ʕ latin small letter ezh reversed → 02C1 ʕ modifier letter reversed glottal stop
0296	ɸ	<b>LATIN LETTER INVERTED GLOTTAL STOP</b> • lateral click → 01C1 ɸ latin letter lateral click
0297	ɕ	<b>LATIN LETTER STRETCHED C</b> • palatal (or alveolar) click → 01C3 ɕ latin letter retroflex click → 2201 ɕ complement

0298	ɔ̥	<b>LATIN LETTER BILABIAL CLICK</b> = bullseye → 2299 ɔ̥ circled dot operator
0299	ɓ	<b>LATIN LETTER SMALL CAPITAL B</b> • bilabial trill
029A	ɐ	<b>LATIN SMALL LETTER CLOSED OPEN E</b> = closed epsilon • lower-mid front rounded vowel • non-IPA alternate for the preferred 0153 œ
029B	ɠ	<b>LATIN LETTER SMALL CAPITAL G WITH HOOK</b> • voiced uvular implosive
029C	ɬ	<b>LATIN LETTER SMALL CAPITAL H</b> • voiceless epiglottal fricative
029D	ɣ̥	<b>LATIN SMALL LETTER J WITH CROSSED-TAIL</b> • voiced palatal fricative
029E	ɰ	<b>LATIN SMALL LETTER TURNED K</b> • proposed for velar click • withdrawn by IPA in 1970
029F	ɭ	<b>LATIN LETTER SMALL CAPITAL L</b> • velar lateral approximant
02A0	ɣ̥	<b>LATIN SMALL LETTER Q WITH HOOK</b> • voiceless uvular implosive
02A1	ʔ̥	<b>LATIN LETTER GLOTTAL STOP WITH STROKE</b> • voiced epiglottal stop
02A2	ɰ̥	<b>LATIN LETTER REVERSED GLOTTAL STOP WITH STROKE</b> • voiced epiglottal fricative
02A3	ɗɹ	<b>LATIN SMALL LETTER DZ DIGRAPH</b> • voiced dental affricate
02A4	ɗʒ	<b>LATIN SMALL LETTER DEZH DIGRAPH</b> • voiced postalveolar affricate
02A5	ɗɹ̥	<b>LATIN SMALL LETTER DZ DIGRAPH WITH CURL</b> • voiced alveolo-palatal affricate
02A6	ts	<b>LATIN SMALL LETTER TS DIGRAPH</b> • voiceless dental affricate
02A7	tʃ	<b>LATIN SMALL LETTER TESH DIGRAPH</b> • voiceless postalveolar affricate
02A8	tc̥	<b>LATIN SMALL LETTER TC DIGRAPH WITH CURL</b> • voiceless alveolo-palatal affricate

**IPA characters for disordered speech**

02A9	fɿ	<b>LATIN SMALL LETTER FENG DIGRAPH</b> • velopharyngeal fricative
02AA	ɬs	<b>LATIN SMALL LETTER LS DIGRAPH</b> • lateral alveolar fricative (lisp)
02AB	ɬz	<b>LATIN SMALL LETTER LZ DIGRAPH</b> • voiced lateral alveolar fricative
02AC	ɸɸ	<b>LATIN LETTER BILABIAL PERCUSSIVE</b> • audible lip smack
02AD	ɸɸ̥	<b>LATIN LETTER BIDENTAL PERCUSSIVE</b> • audible teeth gnashing

**Additions for Sinology**

02AE	ɰ̥	<b>LATIN SMALL LETTER TURNED H WITH FISHHOOK</b>
02AF	ɰ̥̥	<b>LATIN SMALL LETTER TURNED H WITH FISHHOOK AND TAIL</b>

	02B	02C	02D	02E	02F
0	h 02B0	ʔ 02C0	◌̣ 02D0	Ÿ 02E0	^ 02F0
1	ħ 02B1	ƒ 02C1	◌̤ 02D1	ı 02E1	< 02F1
2	ĵ 02B2	< 02C2	◌̥ 02D2	š 02E2	> 02F2
3	ŕ 02B3	> 02C3	◌̦ 02D3	Ẋ 02E3	◌̧ 02F3
4	Į 02B4	^ 02C4	⊥ 02D4	ſ 02E4	◌̨ 02F4
5	Ĳ 02B5	∨ 02C5	⊥ 02D5	┐ 02E5	◌̩ 02F5
6	Ɓ 02B6	^ 02C6	⊕ 02D6	┘ 02E6	◌̪ 02F6
7	Ẁ 02B7	∨ 02C7	⊖ 02D7	┘ 02E7	~ 02F7
8	ẏ 02B8	ˆ 02C8	◌̭ 02D8	┘ 02E8	⋮ 02F8
9	/ 02B9	⊖ 02C9	⋅ 02D9	┘ 02E9	Ṛ 02F9
A	” 02BA	/ 02CA	◌̮ 02DA	┘ 02EA	Ṛ 02FA
B	‘ 02BB	◌̯ 02CB	◌̰ 02DB	┘ 02EB	Ṛ 02FB
C	, 02BC	◌̱ 02CC	~ 02DC	◌̲ 02EC	Ṛ 02FC
D	◌̳ 02BD	⊖ 02CD	” 02DD	= 02ED	┘ 02FD
E	◌̴ 02BE	◌̵ 02CE	◌̶ 02DE	” 02EE	┘ 02FE
F	◌̷ 02BF	/ 02CF	× 02DF	◌̸ 02EF	← 02FF

**Latin superscript modifier letters**

- 02B0 <sup>h</sup> **MODIFIER LETTER SMALL H**  
 • aspiration  
 ≈ <super> 0068 <sup>h</sup>
- 02B1 <sup>fi</sup> **MODIFIER LETTER SMALL H WITH HOOK**  
 • breathy voiced, murmured  
 → 0266 <sup>fi</sup> latin small letter h with hook  
 → 0324 <sup>fi</sup> combining diaeresis below  
 ≈ <super> 0266 <sup>fi</sup>
- 02B2 <sup>j</sup> **MODIFIER LETTER SMALL J**  
 • palatalization  
 → 0321 <sup>j</sup> combining palatalized hook below  
 ≈ <super> 006A <sup>j</sup>
- 02B3 <sup>r</sup> **MODIFIER LETTER SMALL R**  
 ≈ <super> 0072 <sup>r</sup>
- 02B4 <sup>ɹ</sup> **MODIFIER LETTER SMALL TURNED R**  
 → 0279 <sup>ɹ</sup> latin small letter turned r  
 ≈ <super> 0279 <sup>ɹ</sup>
- 02B5 <sup>ɹ̥</sup> **MODIFIER LETTER SMALL TURNED R WITH HOOK**  
 → 027B <sup>ɹ̥</sup> latin small letter turned r with hook  
 ≈ <super> 027B <sup>ɹ̥</sup>
- 02B6 <sup>ɹ̥</sup> **MODIFIER LETTER SMALL CAPITAL INVERTED R**  
 • preceding four used for r-coloring or r-offglides  
 → 0281 <sup>ɹ̥</sup> latin letter small capital inverted r  
 ≈ <super> 0281 <sup>ɹ̥</sup>
- 02B7 <sup>w</sup> **MODIFIER LETTER SMALL W**  
 • labialization  
 → 032B <sup>w</sup> combining inverted double arch below  
 ≈ <super> 0077 <sup>w</sup>
- 02B8 <sup>y</sup> **MODIFIER LETTER SMALL Y**  
 • palatalization  
 • common Americanist usage for 02B2 <sup>j</sup>  
 ≈ <super> 0079 <sup>y</sup>

**Miscellaneous phonetic modifiers**

- 02B9 <sup>ʹ</sup> **MODIFIER LETTER PRIME**  
 • primary stress, emphasis  
 • transliteration of mjagkij znak (Cyrillic soft sign: palatalization)  
 → 0027 <sup>ʹ</sup> apostrophe  
 → 00B4 <sup>ʹ</sup> acute accent  
 → 02CA <sup>ʹ</sup> modifier letter acute accent  
 → 0301 <sup>ʹ</sup> combining acute accent  
 → 0374 <sup>ʹ</sup> greek numeral sign  
 → 2032 <sup>ʹ</sup> prime
- 02BA <sup>ʹʹ</sup> **MODIFIER LETTER DOUBLE PRIME**  
 • exaggerated stress, contrastive stress  
 • transliteration of tverdyj znak (Cyrillic hard sign: no palatalization)  
 → 0022 <sup>ʹʹ</sup> quotation mark  
 → 030B <sup>ʹʹ</sup> combining double acute accent  
 → 2033 <sup>ʹʹ</sup> double prime

- 02BB <sup>ʹ</sup> **MODIFIER LETTER TURNED COMMA**  
 • typographical alternate for 02BD <sup>ʹ</sup> or 02BF <sup>ʹ</sup>  
 • used in Hawaiʻian orthography as `okina (glottal stop)  
 → 0312 <sup>ʹ</sup> combining turned comma above  
 → 07F5 <sup>ʹ</sup> nko low tone apostrophe  
 → 2018 <sup>ʹ</sup> left single quotation mark
- 02BC <sup>ʹ</sup> **MODIFIER LETTER APOSTROPHE**  
 = apostrophe  
 • glottal stop, glottalization, ejective  
 • many languages use this as a letter of their alphabets  
 • used as a tone marker in Bodo, Dogri, and Maithili  
 • 2019 <sup>ʹ</sup> is the preferred character for a punctuation apostrophe  
 → 0027 <sup>ʹ</sup> apostrophe  
 → 0313 <sup>ʹ</sup> combining comma above  
 → 0315 <sup>ʹ</sup> combining comma above right  
 → 055A <sup>ʹ</sup> armenian apostrophe  
 → 07F4 <sup>ʹ</sup> nko high tone apostrophe  
 → 1FBF <sup>ʹ</sup> greek psili  
 → 2019 <sup>ʹ</sup> right single quotation mark
- 02BD <sup>ʹ</sup> **MODIFIER LETTER REVERSED COMMA**  
 • weak aspiration  
 → 0314 <sup>ʹ</sup> combining reversed comma above  
 → 0559 <sup>ʹ</sup> armenian modifier letter left half ring  
 → 1FFE <sup>ʹ</sup> greek dasia  
 → 201B <sup>ʹ</sup> single high-reversed-9 quotation mark
- 02BE <sup>ʹ</sup> **MODIFIER LETTER RIGHT HALF RING**  
 • transliteration of Arabic hamza (glottal stop)  
 → 055A <sup>ʹ</sup> armenian apostrophe  
 → 0621 <sup>ʹ</sup> arabic letter hamza
- 02BF <sup>ʹ</sup> **MODIFIER LETTER LEFT HALF RING**  
 • transliteration of Arabic ain (voiced pharyngeal fricative)  
 → 0559 <sup>ʹ</sup> armenian modifier letter left half ring  
 → 0639 <sup>ʹ</sup> arabic letter ain
- 02C0 <sup>ʹ</sup> **MODIFIER LETTER GLOTTAL STOP**  
 • ejective or glottalized  
 • typographical alternate for 02BC <sup>ʹ</sup> or 02BE <sup>ʹ</sup>  
 → 0294 <sup>ʹ</sup> latin letter glottal stop  
 → 0309 <sup>ʹ</sup> combining hook above
- 02C1 <sup>ʹ</sup> **MODIFIER LETTER REVERSED GLOTTAL STOP**  
 • typographical alternate for 02BF <sup>ʹ</sup>  
 → 0295 <sup>ʹ</sup> latin letter pharyngeal voiced fricative
- 02C2 <sup>ʹ</sup> **MODIFIER LETTER LEFT ARROWHEAD**  
 • fronted articulation
- 02C3 <sup>ʹ</sup> **MODIFIER LETTER RIGHT ARROWHEAD**  
 • backed articulation
- 02C4 <sup>ʹ</sup> **MODIFIER LETTER UP ARROWHEAD**  
 • raised articulation  
 → 005E <sup>ʹ</sup> circumflex accent  
 → 2303 <sup>ʹ</sup> up arrowhead
- 02C5 <sup>ʹ</sup> **MODIFIER LETTER DOWN ARROWHEAD**  
 • lowered articulation

## 02C6

## Spacing Modifier Letters

## 02E2

02C6	^	<b>MODIFIER LETTER CIRCUMFLEX ACCENT</b> • rising-falling tone, falling tone, secondary stress, etc. → 005E ^ circumflex accent → 0302 ô combining circumflex accent → A788 ̂ modifier letter low circumflex accent
02C7	ˇ	<b>CARON</b> = hacek • falling-rising tone • Mandarin Chinese third tone → 030C ̋ combining caron
02C8	ˊ	<b>MODIFIER LETTER VERTICAL LINE</b> • primary stress, downstep • precedes letter or syllable modified → 0027 ' apostrophe → 030D ̇ combining vertical line above
02C9	ˉ	<b>MODIFIER LETTER MACRON</b> • high level tone • precedes or follows letter or syllable modified • Mandarin Chinese first tone → 00AF ̄ macron → 0304 ̄ combining macron
02CA	ˋ	<b>MODIFIER LETTER ACUTE ACCENT</b> • high-rising tone (IPA), high tone, primary stress • Mandarin Chinese second tone → 00B4 ´ acute accent → 02B9 ˊ modifier letter prime → 0301 ̂ combining acute accent → 0374 ˆ greek numeral sign → 055B ˆ armenian emphasis mark
02CB	ˋ	<b>MODIFIER LETTER GRAVE ACCENT</b> • high-falling tone (IPA), low tone, secondary or tertiary stress • Mandarin Chinese fourth tone → 0060 ` grave accent → 0300 ̀ combining grave accent → 055D ˘ armenian comma
02CC	ˋ	<b>MODIFIER LETTER LOW VERTICAL LINE</b> • secondary stress • precedes letter or syllable modified → 0329 ˋ combining vertical line below
02CD	ˉ	<b>MODIFIER LETTER LOW MACRON</b> • low level tone → 005F ˉ low line → 0331 ˉ combining macron below
02CE	ˋ	<b>MODIFIER LETTER LOW GRAVE ACCENT</b> • low-falling tone
02CF	ˋ	<b>MODIFIER LETTER LOW ACUTE ACCENT</b> • low-rising tone → 0375 ˋ greek lower numeral sign
02D0	:	<b>MODIFIER LETTER TRIANGULAR COLON</b> • length mark → 003A : colon
02D1	ˋ	<b>MODIFIER LETTER HALF TRIANGULAR COLON</b> • half-length mark → 00B7 ˋ middle dot
02D2	ˋ	<b>MODIFIER LETTER CENTRED RIGHT HALF RING</b> • more rounded articulation

02D3	ˋ	<b>MODIFIER LETTER CENTRED LEFT HALF RING</b> • less rounded articulation
02D4	ˋ	<b>MODIFIER LETTER UP TACK</b> • vowel raising or closing → 031D ˋ combining up tack below → 0323 ˋ combining dot below
02D5	ˋ	<b>MODIFIER LETTER DOWN TACK</b> • vowel lowering or opening → 031C ˋ combining left half ring below → 031E ˋ combining down tack below
02D6	ˋ	<b>MODIFIER LETTER PLUS SIGN</b> • advanced or fronted articulation → 031F ˋ combining plus sign below
02D7	-	<b>MODIFIER LETTER MINUS SIGN</b> • retracted or backed articulation • glyph may have small end-serifs → 0320 ˋ combining minus sign below → 2212 - minus sign

**Spacing clones of diacritics**

02D8	ˋ	<b>BREVE</b> → 0306 ̆ combining breve ≈ 0020 [sp] 0306 ̆
02D9	ˋ	<b>DOT ABOVE</b> • Mandarin Chinese fifth tone (light or neutral) → 0307 ̈́ combining dot above ≈ 0020 [sp] 0307 ̈́
02DA	ˋ	<b>RING ABOVE</b> → 00B0 ° degree sign → 030A ̊ combining ring above ≈ 0020 [sp] 030A ̊
02DB	ˋ	<b>OGONEK</b> → 0328 ˋ combining ogonek ≈ 0020 [sp] 0328 ˋ
02DC	ˋ	<b>SMALL TILDE</b> → 007E ~ tilde → 0303 ̃ combining tilde → 223C ~ tilde operator ≈ 0020 [sp] 0303 ̃
02DD	ˋ	<b>DOUBLE ACUTE ACCENT</b> → 030B ̈́ combining double acute accent ≈ 0020 [sp] 030B ̈́

**Additions based on 1989 IPA**

02DE	ˋ	<b>MODIFIER LETTER RHOTIC HOOK</b> • rhotacization in vowel • often ligated: 025A ɹ̥ = 0259 ɹ + 02DE ˋ ; 025D ɹ̥ = 025C ɹ + 02DE ˋ
02DF	×	<b>MODIFIER LETTER CROSS ACCENT</b> • Swedish grave accent
02E0	ˋ	<b>MODIFIER LETTER SMALL GAMMA</b> • these modifier letters are occasionally used in transcription of affricates ≈ <super> 0263 ɣ
02E1	ˋ	<b>MODIFIER LETTER SMALL L</b> ≈ <super> 006C ɭ
02E2	ˋ	<b>MODIFIER LETTER SMALL S</b> ≈ <super> 0073 s

- 02E3   x   MODIFIER LETTER SMALL X  
           ≈ <super> 0078 x
- 02E4   ʘ   MODIFIER LETTER SMALL REVERSED GLOTTAL  
           STOP  
           ≈ <super> 0295 ʘ

**Tone letters**

- 02E5   ͡   MODIFIER LETTER EXTRA-HIGH TONE BAR
- 02E6   ͠   MODIFIER LETTER HIGH TONE BAR
- 02E7   ͡   MODIFIER LETTER MID TONE BAR
- 02E8   ͢   MODIFIER LETTER LOW TONE BAR
- 02E9   ͣ   MODIFIER LETTER EXTRA-LOW TONE BAR

**Extended Bopomofo tone marks**

- 02EA   ㄣ   MODIFIER LETTER YIN DEPARTING TONE MARK
- 02EB   ㄣ   MODIFIER LETTER YANG DEPARTING TONE  
           MARK

**IPA modifiers**

















































































































- 02EC   ͜   MODIFIER LETTER VOICING
- 02ED   ͝   MODIFIER LETTER UNASPIRATED

**Other modifier letter**

- 02EE   ͞   MODIFIER LETTER DOUBLE APOSTROPHE  
           • Nenets

**UPA modifiers**

- 02EF   ͟   MODIFIER LETTER LOW DOWN ARROWHEAD
- 02F0   ͠   MODIFIER LETTER LOW UP ARROWHEAD
- 02F1   ͡   MODIFIER LETTER LOW LEFT ARROWHEAD
- 02F2   ͢   MODIFIER LETTER LOW RIGHT ARROWHEAD
- 02F3   ͣ   MODIFIER LETTER LOW RING
- 02F4   ͤ   MODIFIER LETTER MIDDLE GRAVE ACCENT
- 02F5   ͥ   MODIFIER LETTER MIDDLE DOUBLE GRAVE  
           ACCENT
- 02F6   ͦ   MODIFIER LETTER MIDDLE DOUBLE ACUTE  
           ACCENT
- 02F7   ͧ   MODIFIER LETTER LOW TILDE
- 02F8   ͨ   MODIFIER LETTER RAISED COLON
- 02F9   ͩ   MODIFIER LETTER BEGIN HIGH TONE
- 02FA   ͪ   MODIFIER LETTER END HIGH TONE
- 02FB   ͫ   MODIFIER LETTER BEGIN LOW TONE
- 02FC   ͬ   MODIFIER LETTER END LOW TONE
- 02FD   ͭ   MODIFIER LETTER SHELF
- 02FE   ͮ   MODIFIER LETTER OPEN SHELF
- 02FF   ͯ   MODIFIER LETTER LOW LEFT ARROW

	030	031	032	033	034	035	036
0	 0300	 0310	 0320	 0330	 0340	 0350	 0360
1	 0301	 0311	 0321	 0331	 0341	 0351	 0361
2	 0302	 0312	 0322	 0332	 0342	 0352	 0362
3	 0303	 0313	 0323	 0333	 0343	 0353	 0363
4	 0304	 0314	 0324	 0334	 0344	 0354	 0364
5	 0305	 0315	 0325	 0335	 0345	 0355	 0365
6	 0306	 0316	 0326	 0336	 0346	 0356	 0366
7	 0307	 0317	 0327	 0337	 0347	 0357	 0367
8	 0308	 0318	 0328	 0338	 0348	 0358	 0368
9	 0309	 0319	 0329	 0339	 0349	 0359	 0369
A	 030A	 031A	 032A	 033A	 034A	 035A	 036A
B	 030B	 031B	 032B	 033B	 034B	 035B	 036B
C	 030C	 031C	 032C	 033C	 034C	 035C	 036C
D	 030D	 031D	 032D	 033D	 034D	 035D	 036D
E	 030E	 031E	 032E	 033E	 034E	 035E	 036E
F	 030F	 031F	 032F	 033F	 034F	 035F	 036F

**Ordinary diacritics**

- 0300 ◌̀ **COMBINING GRAVE ACCENT**  
= Greek varia  
→ 0060 ` grave accent  
→ 02CB ` modifier letter grave accent
- 0301 ◌́ **COMBINING ACUTE ACCENT**  
= stress mark  
= Greek oxia, tonos  
→ 0027 ' apostrophe  
→ 00B4 ´ acute accent  
→ 02B9 ´ modifier letter prime  
→ 02CA ´ modifier letter acute accent  
→ 0384 ´ greek tonos
- 0302 ◌̂ **COMBINING CIRCUMFLEX ACCENT**  
= hat  
→ 005E ^ circumflex accent  
→ 02C6 ^ modifier letter circumflex accent
- 0303 ◌̃ **COMBINING TILDE**  
• IPA: nasalization  
• Vietnamese tone mark  
→ 007E ~ tilde  
→ 02DC ~ small tilde
- 0304 ◌̄ **COMBINING MACRON**  
= long  
• distinguish from the following  
→ 00AF — macron  
→ 02C9 — modifier letter macron
- 0305 ◌̅ **COMBINING OVERLINE**  
= overscore, vinculum  
• connects on left and right  
→ 00AF — macron
- 0306 ◌̇ **COMBINING BREVE**  
= short  
= Greek vrachy  
→ 02D8 ˇ breve  
→ A67C ◌̇ combining cyrillic kavyka
- 0307 ◌̈ **COMBINING DOT ABOVE**  
= derivative (Newtonian notation)  
• IPA (withdrawn in 1976): palatalization  
→ 02D9 ˙ dot above
- 0308 ◌̉ **COMBINING DIAERESIS**  
= double dot above, umlaut  
= Greek dialytika  
= double derivative  
→ 00A8 ¨ diaeresis
- 0309 ◌̊ **COMBINING HOOK ABOVE**  
= hoi  
• kerns left or right of circumflex over vowels  
• Vietnamese tone mark  
→ 02C0 ʔ modifier letter glottal stop
- 030A ◌° **COMBINING RING ABOVE**  
→ 00B0 ° degree sign  
→ 02DA ° ring above
- 030B ◌̋ **COMBINING DOUBLE ACUTE ACCENT**  
• Hungarian, Chuvash  
→ 0022 " quotation mark  
→ 02BA ¨ modifier letter double prime  
→ 02DD ¨ double acute accent

- 030C ◌̌ **COMBINING CARON**  
= hacek, V above  
→ 02C7 ˇ caron
- 030D ◌̍ **COMBINING VERTICAL LINE ABOVE**  
• this is not the Greek tonos  
• Marshallese  
→ 02C8 ˊ modifier letter vertical line
- 030E ◌̎ **COMBINING DOUBLE VERTICAL LINE ABOVE**  
• Marshallese  
→ 0022 " quotation mark
- 030F ◌̏ **COMBINING DOUBLE GRAVE ACCENT**  
• Serbian and Croatian poetics
- 0310 ◌̐ **COMBINING CANDRABINDU**  
→ 0901 ॐ devanagari sign candrabindu
- 0311 ◌̑ **COMBINING INVERTED BREVE**  
→ 0487 Ҁ combining cyrillic pokrytie
- 0312 ◌̒ **COMBINING TURNED COMMA ABOVE**  
= cedilla above  
• Latvian (but not used in decomposition)  
→ 02BB ˆ modifier letter turned comma
- 0313 ◌̓ **COMBINING COMMA ABOVE**  
= Greek psili, smooth breathing mark  
• Americanist: ejective or glottalization  
→ 02BC ˆ modifier letter apostrophe  
→ 0486 ҁ combining cyrillic psili pneumata  
→ 055A Ԁ armenian apostrophe
- 0314 ◌̔ **COMBINING REVERSED COMMA ABOVE**  
= Greek dasia, rough breathing mark  
→ 02BD ˆ modifier letter reversed comma  
→ 0485 ҂ combining cyrillic dasia pneumata  
→ 0559 Ԁ armenian modifier letter left half ring
- 0315 ◌̕ **COMBINING COMMA ABOVE RIGHT**  
→ 02BC ˆ modifier letter apostrophe
- 0316 ◌̖ **COMBINING GRAVE ACCENT BELOW**
- 0317 ◌̗ **COMBINING ACUTE ACCENT BELOW**
- 0318 ◌̘ **COMBINING LEFT TACK BELOW**
- 0319 ◌̙ **COMBINING RIGHT TACK BELOW**
- 031A ◌̚ **COMBINING LEFT ANGLE ABOVE**  
• IPA: unreleased stop
- 031B ◌̛ **COMBINING HORN**  
• Vietnamese
- 031C ◌̜ **COMBINING LEFT HALF RING BELOW**  
• IPA: open variety of vowel  
→ 02D5 ˆ modifier letter down tack
- 031D ◌̝ **COMBINING UP TACK BELOW**  
• IPA: vowel raising or closing  
→ 02D4 ˆ modifier letter up tack
- 031E ◌̞ **COMBINING DOWN TACK BELOW**  
• IPA: vowel lowering or opening  
→ 02D5 ˆ modifier letter down tack
- 031F ◌̟ **COMBINING PLUS SIGN BELOW**  
• IPA: advanced or fronted articulation  
→ 02D6 ˆ modifier letter plus sign
- 0320 ◌̠ **COMBINING MINUS SIGN BELOW**  
• IPA: retracted or backed articulation  
• glyph may have small end-serifs  
→ 02D7 ˆ modifier letter minus sign



- 0321 ǰ COMBINING PALATALIZED HOOK BELOW  
• IPA: palatalization  
→ 02B2 ǰ modifier letter small j
- 0322 ǰ COMBINING RETROFLEX HOOK BELOW  
• IPA: retroflexion
- 0323 ̣ COMBINING DOT BELOW  
= nang  
• IPA: closer variety of vowel  
• Americanist and Indo-Europeanist: retraction or retroflexion  
• Semiticist: velarization or pharyngealization  
• Vietnamese tone mark  
→ 02D4 ̣ modifier letter up tack
- 0324 ̤ COMBINING DIAERESIS BELOW  
• IPA: breathy-voice or murmur  
→ 02B1 ̤ modifier letter small h with hook
- 0325 ̥ COMBINING RING BELOW  
• IPA: voiceless  
• vocalic (in Latin transliteration of Indic sonorants)  
• Madurese
- 0326 ̦ COMBINING COMMA BELOW  
• Romanian, Latvian, Livonian
- 0327 ̧ COMBINING CEDILLA  
• French, Turkish, Azerbaijani  
→ 00B8 ̧ cedilla
- 0328 ̨ COMBINING OGONEK  
= nasal hook  
• Americanist: nasalization  
• Polish, Lithuanian  
→ 02DB ̨ ogonek
- 0329 ̩ COMBINING VERTICAL LINE BELOW  
• IPA: syllabic  
• Yoruba  
• German dialectology  
• may attach or not; shape may vary by local preferences  
→ 02CC ̩ modifier letter low vertical line
- 032A ̪ COMBINING BRIDGE BELOW  
• IPA: dental
- 032B ̫ COMBINING INVERTED DOUBLE ARCH BELOW  
• IPA: labialization  
→ 02B7 ̫ modifier letter small w
- 032C ̬ COMBINING CARON BELOW  
• IPA: voiced
- 032D ̭ COMBINING CIRCUMFLEX ACCENT BELOW  
• Americanist: fronted articulation
- 032E ̮ COMBINING BREVE BELOW  
• Hittite transcription
- 032F ̯ COMBINING INVERTED BREVE BELOW  
• Americanist: fronted articulation (variant of 032D ̭)  
• Indo-Europeanist: semivowel
- 0330 ̰ COMBINING TILDE BELOW  
• IPA: creaky voice
- 0331 ̱ COMBINING MACRON BELOW  
→ 005F ̱ low line  
→ 02CD ̱ modifier letter low macron

- 0332 ̲ COMBINING LOW LINE  
= underline, underscore  
• connects on left and right  
→ 005F ̲ low line
- 0333 ̳ COMBINING DOUBLE LOW LINE  
= double underline, double underscore  
• connects on left and right  
→ 0347 ̳ combining equals sign below  
→ 2017 ̳ double low line

**Overstruck diacritics**

- 0334 ̴ COMBINING TILDE OVERLAY  
• IPA: velarization or pharyngealization
- 0335 ̵ COMBINING SHORT STROKE OVERLAY
- 0336 ̶ COMBINING LONG STROKE OVERLAY
- 0337 ̷ COMBINING SHORT SOLIDUS OVERLAY  
= short slash overlay
- 0338 ̸ COMBINING LONG SOLIDUS OVERLAY  
= long slash overlay

**Additions**

- 0339 ̹ COMBINING RIGHT HALF RING BELOW
- 033A ̺ COMBINING INVERTED BRIDGE BELOW
- 033B ̻ COMBINING SQUARE BELOW
- 033C ̼ COMBINING SEAGULL BELOW
- 033D ̽ COMBINING X ABOVE
- 033E ̾ COMBINING VERTICAL TILDE  
= yerik  
• used for Cyrillic yerik, indicates an omitted jer  
• this is not a palatalization mark  
→ 0484 ̾ combining cyrillic palatalization  
→ 2E2F ̾ vertical tilde  
→ A67D ̾ combining cyrillic payerok
- 033F ̿ COMBINING DOUBLE OVERLINE

**Vietnamese tone marks**

*Vietnamese-specific accent placement should be handled instead by specialized rendering of 0300 and 0301. Use of 0340 and 0341 is discouraged.*

- 0340 ̸ COMBINING GRAVE TONE MARK  
= 0300 ̸ combining grave accent
- 0341 ̹ COMBINING ACUTE TONE MARK  
= 0301 ̹ combining acute accent

**Additions for Greek**

- 0342 ̺ COMBINING GREEK PERISPOMENI
- 0343 ̻ COMBINING GREEK KORONIS  
= 0313 ̻ combining comma above
- 0344 ̼ COMBINING GREEK DIALYTIKA TONOS  
• use of this character is discouraged  
= 0308 ̼ 0301 ̹
- 0345 ̽ COMBINING GREEK YPOGEGRAMMENI  
= greek non-spacing iota below (1.0)  
= iota subscript  
• note special casing issues  
→ 037A ̽ greek ypogegrammeni  
→ 0399 ̽ greek capital letter iota

**Additions for IPA**

- 0346 ◌̆ COMBINING BRIDGE ABOVE  
 • IPA: dentolabial  
 → 20E9 ◌̆ combining wide bridge above
- 0347 ◌̇ COMBINING EQUALS SIGN BELOW  
 • IPA: alveolar
- 0348 ◌̈ COMBINING DOUBLE VERTICAL LINE BELOW  
 • IPA: strong articulation
- 0349 ◌̋ COMBINING LEFT ANGLE BELOW  
 • IPA: weak articulation
- 034A ◌̌ COMBINING NOT TILDE ABOVE  
 • IPA: denasal

**IPA diacritics for disordered speech**

- 034B ◌̍ COMBINING HOMOTHETIC ABOVE  
 • IPA: nasal escape
- 034C ◌̎ COMBINING ALMOST EQUAL TO ABOVE  
 • IPA: velopharyngeal friction
- 034D ◌̏ COMBINING LEFT RIGHT ARROW BELOW  
 • IPA: labial spreading
- 034E ◌̐ COMBINING UPWARDS ARROW BELOW  
 • IPA: whistled articulation

**Grapheme joiner**

- 034F ◌͏ COMBINING GRAPHEME JOINER  
 • commonly abbreviated as CGJ  
 • has no visible glyph  
 • the name of this character is misleading; it does not actually join graphemes

**Additions for the Uralic Phonetic Alphabet**

- 0350 ◌̐ COMBINING RIGHT ARROWHEAD ABOVE
- 0351 ◌̑ COMBINING LEFT HALF RING ABOVE
- 0352 ◌̒ COMBINING FERMATA
- 0353 ◌̓ COMBINING X BELOW
- 0354 ◌̔ COMBINING LEFT ARROWHEAD BELOW
- 0355 ◌̕ COMBINING RIGHT ARROWHEAD BELOW
- 0356 ◌̖ COMBINING RIGHT ARROWHEAD AND UP ARROWHEAD BELOW
- 0357 ◌̗ COMBINING RIGHT HALF RING ABOVE

**Miscellaneous additions**

- 0358 ◌̘ COMBINING DOT ABOVE RIGHT  
 • Latin transliterations of the Southern Min dialects of Chinese
- 0359 ◌̙ COMBINING ASTERISK BELOW  
 → 204E \* low asterisk
- 035A ◌̚ COMBINING DOUBLE RING BELOW  
 • Kharoshthi transliteration
- 035B ◌̛ COMBINING ZIGZAG ABOVE  
 • Latin abbreviation, Lithuanian phonetics and mediaevalist transcriptions

**Double diacritics**

- 035C ◌̜ COMBINING DOUBLE BREVE BELOW  
 = ligature tie below, papyrological hyphen  
 • a common glyph alternate connects the horizontal midpoints of the characters  
 → 035D ◌̝ combining double breve  
 → 0361 ◌̞ combining double inverted breve
- 035D ◌̝ COMBINING DOUBLE BREVE
- 035E ◌̞ COMBINING DOUBLE MACRON

- 035F ◌̟ COMBINING DOUBLE MACRON BELOW
- 0360 ◌̠ COMBINING DOUBLE TILDE
- 0361 ◌̡ COMBINING DOUBLE INVERTED BREVE  
 = ligature tie
- 0362 ◌̢ COMBINING DOUBLE RIGHTWARDS ARROW BELOW  
 • IPA: sliding articulation

**Medieval superscript letter diacritics**

*These are letter diacritics written directly above other letters. They appear primarily in medieval Germanic manuscripts, but saw some usage as late as the 19th century in some languages.*

- 0363 ◌̣ COMBINING LATIN SMALL LETTER A
- 0364 ◌̤ COMBINING LATIN SMALL LETTER E
- 0365 ◌̥ COMBINING LATIN SMALL LETTER I
- 0366 ◌̦ COMBINING LATIN SMALL LETTER O
- 0367 ◌̧ COMBINING LATIN SMALL LETTER U
- 0368 ◌̨ COMBINING LATIN SMALL LETTER C
- 0369 ◌̩ COMBINING LATIN SMALL LETTER D
- 036A ◌̪ COMBINING LATIN SMALL LETTER H
- 036B ◌̫ COMBINING LATIN SMALL LETTER M
- 036C ◌̬ COMBINING LATIN SMALL LETTER R
- 036D ◌̭ COMBINING LATIN SMALL LETTER T
- 036E ◌̮ COMBINING LATIN SMALL LETTER V
- 036F ◌̯ COMBINING LATIN SMALL LETTER X

	037	038	039	03A	03B	03C	03D	03E	03F
0	Ⲁ 0370		ⲁ 0390	Ⲃ 03A0	ⲃ 03B0	Ⲅ 03C0	ⲅ 03D0	Ⲇ 03E0	ⲇ 03F0
1	Ⲉ 0371		Ⲋ 0391	ⲋ 03A1	Ⲍ 03B1	ⲍ 03C1	Ⲏ 03D1	ⲏ 03E1	Ⲑ 03F1
2	ⲑ 0372		Ⲓ 0392		Ⲕ 03B2	ⲕ 03C2	Ⲗ 03D2	ⲗ 03E2	Ⲙ 03F2
3	ⲙ 0373		Ⲏ 0393	ⲏ 03A3	Ⲑ 03B3	ⲑ 03C3	Ⲓ 03D3	ⲓ 03E3	Ⲕ 03F3
4	ⲕ 0374	ⲕ 0384	ⲕ 0394	ⲕ 03A4	ⲕ 03B4	ⲕ 03C4	ⲕ 03D4	ⲕ 03E4	ⲕ 03F4
5	ⲕ 0375	ⲕ 0385	ⲕ 0395	ⲕ 03A5	ⲕ 03B5	ⲕ 03C5	ⲕ 03D5	ⲕ 03E5	ⲕ 03F5
6	ⲕ 0376	ⲕ 0386	ⲕ 0396	ⲕ 03A6	ⲕ 03B6	ⲕ 03C6	ⲕ 03D6	ⲕ 03E6	ⲕ 03F6
7	ⲕ 0377	ⲕ 0387	ⲕ 0397	ⲕ 03A7	ⲕ 03B7	ⲕ 03C7	ⲕ 03D7	ⲕ 03E7	ⲕ 03F7
8		ⲕ 0388	ⲕ 0398	ⲕ 03A8	ⲕ 03B8	ⲕ 03C8	ⲕ 03D8	ⲕ 03E8	ⲕ 03F8
9		ⲕ 0389	ⲕ 0399	ⲕ 03A9	ⲕ 03B9	ⲕ 03C9	ⲕ 03D9	ⲕ 03E9	ⲕ 03F9
A	ⲕ 037A	ⲕ 038A	ⲕ 039A	ⲕ 03AA	ⲕ 03BA	ⲕ 03CA	ⲕ 03DA	ⲕ 03EA	ⲕ 03FA
B	ⲕ 037B		ⲕ 039B	ⲕ 03AB	ⲕ 03BB	ⲕ 03CB	ⲕ 03DB	ⲕ 03EB	ⲕ 03FB
C	ⲕ 037C	ⲕ 038C	ⲕ 039C	ⲕ 03AC	ⲕ 03BC	ⲕ 03CC	ⲕ 03DC	ⲕ 03EC	ⲕ 03FC
D	ⲕ 037D		ⲕ 039D	ⲕ 03AD	ⲕ 03BD	ⲕ 03CD	ⲕ 03DD	ⲕ 03ED	ⲕ 03FD
E	ⲕ 037E	ⲕ 038E	ⲕ 039E	ⲕ 03AE	ⲕ 03BE	ⲕ 03CE	ⲕ 03DE	ⲕ 03EE	ⲕ 03FE
F		ⲕ 038F	ⲕ 039F	ⲕ 03AF	ⲕ 03BF	ⲕ 03CF	ⲕ 03DF	ⲕ 03EF	ⲕ 03FF

**Archaic letters**

- 0370 **Ͱ** GREEK CAPITAL LETTER HETA  
→ 2C75 **Ɔ** latin capital letter half h
- 0371 **ͱ** GREEK SMALL LETTER HETA  
→ 2C76 **Ɇ** latin small letter half h
- 0372 **Ͳ** GREEK CAPITAL LETTER ARCHAIC SAMPI
- 0373 **ͳ** GREEK SMALL LETTER ARCHAIC SAMPI

**Numeral signs**

- 0374 **͵** GREEK NUMERAL SIGN  
= dexia keraia  
• indicates numeric use of letters  
→ 02CA **ˆ** modifier letter acute accent  
≡ 02B9 **ʹ** modifier letter prime
- 0375 **Ͷ** GREEK LOWER NUMERAL SIGN  
= aristeri keraia  
• indicates numeric use of letters  
→ 02CF **˘** modifier letter low acute accent

**Archaic letters**

- 0376 **ͷ** GREEK CAPITAL LETTER PAMPHYLIAN DIGAMMA
- 0377 **͸** GREEK SMALL LETTER PAMPHYLIAN DIGAMMA

**Iota subscript**

- 037A **͹** GREEK YPOGEGRAMMENI  
= iota subscript  
→ 0345 **Ϳ** combining greek ypogegrammeni  
≈ 0020 **[sp]** 0345 **Ϳ**

**Lowercase of editorial symbols**

- 037B **ͺ** GREEK SMALL REVERSED LUNATE SIGMA SYMBOL
- 037C **ͻ** GREEK SMALL DOTTED LUNATE SIGMA SYMBOL
- 037D **ͼ** GREEK SMALL REVERSED DOTTED LUNATE SIGMA SYMBOL

**Punctuation**

- 037E **ͽ** GREEK QUESTION MARK  
= erotimatiko  
• sentence-final punctuation  
• 003B **;** is the preferred character  
→ 003F **?** question mark  
≡ 003B **;** semicolon

**Spacing accent marks**

- 0384 **Ϳ** GREEK TONOS  
→ 00B4 **ˆ** acute accent  
→ 030D **͂** combining vertical line above  
≈ 0020 **[sp]** 0301 **͂**
- 0385 **ͽ** GREEK DIALYTIKA TONOS  
≡ 00A8 **¨** 0301 **͂**

**Letter**

- 0386 **Ϳ** GREEK CAPITAL LETTER ALPHA WITH TONOS  
≡ 0391 **Α** 0301 **͂**

**Punctuation**

- 0387 **Ϳ** GREEK ANO TELEIA  
• functions in Greek like a semicolon  
• 00B7 **·** is the preferred character  
≡ 00B7 **·** middle dot

**Letters**

- 0388 **Ϳ** GREEK CAPITAL LETTER EPSILON WITH TONOS  
≡ 0395 **Ε** 0301 **͂**
- 0389 **Ϳ** GREEK CAPITAL LETTER ETA WITH TONOS  
≡ 0397 **Η** 0301 **͂**
- 038A **Ϳ** GREEK CAPITAL LETTER IOTA WITH TONOS  
≡ 0399 **Ι** 0301 **͂**
- 038B **Ϳ** <reserved>
- 038C **Ϳ** GREEK CAPITAL LETTER OMICRON WITH TONOS  
≡ 039F **Ο** 0301 **͂**
- 038D **Ϳ** <reserved>
- 038E **Ϳ** GREEK CAPITAL LETTER UPSILON WITH TONOS  
≡ 03A5 **Υ** 0301 **͂**
- 038F **Ϳ** GREEK CAPITAL LETTER OMEGA WITH TONOS  
≡ 03A9 **Ω** 0301 **͂**
- 0390 **Ϳ** GREEK SMALL LETTER IOTA WITH DIALYTIKA AND TONOS  
≡ 03CA **ϊ** 0301 **͂**
- 0391 **Α** GREEK CAPITAL LETTER ALPHA
- 0392 **Β** GREEK CAPITAL LETTER BETA
- 0393 **Γ** GREEK CAPITAL LETTER GAMMA  
= gamma function  
→ 213E **Γ** double-struck capital gamma
- 0394 **Δ** GREEK CAPITAL LETTER DELTA  
→ 2206 **Δ** increment
- 0395 **Ε** GREEK CAPITAL LETTER EPSILON
- 0396 **Ζ** GREEK CAPITAL LETTER ZETA
- 0397 **Η** GREEK CAPITAL LETTER ETA
- 0398 **Θ** GREEK CAPITAL LETTER THETA
- 0399 **Ι** GREEK CAPITAL LETTER IOTA  
= iota adscript
- 039A **Κ** GREEK CAPITAL LETTER KAPPA
- 039B **Λ** GREEK CAPITAL LETTER LAMDA
- 039C **Μ** GREEK CAPITAL LETTER MU
- 039D **Ν** GREEK CAPITAL LETTER NU
- 039E **Ξ** GREEK CAPITAL LETTER XI
- 039F **Ο** GREEK CAPITAL LETTER OMICRON
- 03A0 **Π** GREEK CAPITAL LETTER PI  
→ 213F **Π** double-struck capital pi  
→ 220F **Π** n-ary product
- 03A1 **Ρ** GREEK CAPITAL LETTER RHO
- 03A2 **Ϳ** <reserved>
- 03A3 **Σ** GREEK CAPITAL LETTER SIGMA  
→ 01A9 **Σ** latin capital letter esh  
→ 2211 **Σ** n-ary summation
- 03A4 **Τ** GREEK CAPITAL LETTER TAU
- 03A5 **Υ** GREEK CAPITAL LETTER UPSILON
- 03A6 **Φ** GREEK CAPITAL LETTER PHI
- 03A7 **Χ** GREEK CAPITAL LETTER CHI
- 03A8 **Ψ** GREEK CAPITAL LETTER PSI
- 03A9 **Ω** GREEK CAPITAL LETTER OMEGA  
→ 2126 **Ω** ohm sign  
→ 2127 **Ω** inverted ohm sign
- 03AA **Ϳ** GREEK CAPITAL LETTER IOTA WITH DIALYTIKA  
≡ 0399 **Ι** 0308 **͂**
- 03AB **Ϳ** GREEK CAPITAL LETTER UPSILON WITH DIALYTIKA  
≡ 03A5 **Υ** 0308 **͂**

## 03AC

## Greek and Coptic

## 03D9

03AC	ά	GREEK SMALL LETTER ALPHA WITH TONOS ≡ 03B1 α 0301 ó
03AD	έ	GREEK SMALL LETTER EPSILON WITH TONOS ≡ 03B5 ε 0301 ó
03AE	ή	GREEK SMALL LETTER ETA WITH TONOS ≡ 03B7 η 0301 ó
03AF	ί	GREEK SMALL LETTER IOTA WITH TONOS ≡ 03B9 ι 0301 ó
03B0	ύ	GREEK SMALL LETTER UPSILON WITH DIALYTIKA AND TONOS ≡ 03CB ü 0301 ó
03B1	α	GREEK SMALL LETTER ALPHA → 0251 α latin small letter alpha → 221D ∝ proportional to
03B2	β	GREEK SMALL LETTER BETA → 00DF ß latin small letter sharp s → 0180 ʙ latin small letter b with stroke
03B3	γ	GREEK SMALL LETTER GAMMA → 0263 γ latin small letter gamma → 213D γ double-struck small gamma
03B4	δ	GREEK SMALL LETTER DELTA
03B5	ε	GREEK SMALL LETTER EPSILON → 025B ε latin small letter open e
03B6	ζ	GREEK SMALL LETTER ZETA
03B7	η	GREEK SMALL LETTER ETA
03B8	θ	GREEK SMALL LETTER THETA → 0275 θ latin small letter barred o → 0473 Ө cyrillic small letter fita
03B9	ι	GREEK SMALL LETTER IOTA → 0269 ι latin small letter iota → 2129 ı turned greek small letter iota
03BA	κ	GREEK SMALL LETTER KAPPA
03BB	λ	GREEK SMALL LETTER LAMDA = lambda
03BC	μ	GREEK SMALL LETTER MU → 00B5 μ micro sign
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 = stigma (the Modern Greek name for this letterform) • not to be confused with the actual stigma letter → 03DB Ϸ greek small letter stigma
03C3	σ	GREEK SMALL LETTER SIGMA • used symbolically with a numeric value 200
03C4	τ	GREEK SMALL LETTER TAU
03C5	υ	GREEK SMALL LETTER UPSILON → 028A ū latin small letter upsilon → 028B υ latin small letter v with hook











03C6	φ	GREEK SMALL LETTER PHI → 0278 ϕ latin small letter phi → 03D5 ϕ greek phi symbol • the ordinary Greek letter, showing considerable glyph variation • in mathematical contexts, the loopy glyph is preferred, to contrast with 03D5 ϕ
03C7	χ	GREEK SMALL LETTER CHI
03C8	ψ	GREEK SMALL LETTER PSI
03C9	ω	GREEK SMALL LETTER OMEGA
03CA	ϊ	GREEK SMALL LETTER IOTA WITH DIALYTIKA ≡ 03B9 ι 0308 ö
03CB	ϋ	GREEK SMALL LETTER UPSILON WITH DIALYTIKA ≡ 03C5 υ 0308 ö
03CC	ό	GREEK SMALL LETTER OMICRON WITH TONOS ≡ 03BF ο 0301 ó
03CD	ύ	GREEK SMALL LETTER UPSILON WITH TONOS ≡ 03C5 υ 0301 ó
03CE	ώ	GREEK SMALL LETTER OMEGA WITH TONOS ≡ 03C9 ω 0301 ó

**Variant letterforms**

03CF	Ϟ	GREEK CAPITAL KAI SYMBOL → 03D7 ϟ greek kai symbol
03D0	Ϡ	GREEK BETA SYMBOL = curled beta ≈ 03B2 β greek small letter beta
03D1	ϡ	GREEK THETA SYMBOL = script theta • used as a technical symbol ≈ 03B8 θ greek small letter theta
03D2	ϣ	GREEK UPSILON WITH HOOK SYMBOL ≈ 03A5 Υ greek capital letter upsilon
03D3	Ϥ	GREEK UPSILON WITH ACUTE AND HOOK SYMBOL ≡ 03D2 ϣ 0301 ó
03D4	ϥ	GREEK UPSILON WITH DIAERESIS AND HOOK SYMBOL ≡ 03D2 ϣ 0308 ö
03D5	Ϧ	GREEK PHI SYMBOL • used as a technical symbol, with a stroked glyph • maps to “phi1” symbol entities ≈ 03C6 ϕ greek small letter phi
03D6	ϧ	GREEK PI SYMBOL = omega pi • used as a technical symbol • a variant of pi, looking like omega ≈ 03C0 π greek small letter pi
03D7	Ϩ	GREEK KAI SYMBOL • used as an ampersand → 2CE4 ϩ coptic symbol kai















**Archaic letters**

03D8	Ϻ	GREEK LETTER ARCHAIC KOPPA
03D9	ϻ	GREEK SMALL LETTER ARCHAIC KOPPA • the Q-shaped archaic koppas are the ordinary alphabetic letters and can also be used as symbols with a numeric value of 90 in classical and pre-classical texts







- 03DA  GREEK LETTER STIGMA
- apparently in origin a cursive form of digamma
  - the name “stigma” originally applied to a medieval sigma-tau ligature, whose shape was confusably similar to the cursive digamma
  - used as a symbol with a numeric value of 6
- 2185  roman numeral six late form
- 03DB  GREEK SMALL LETTER STIGMA
- 03C2  greek small letter final sigma
- 03DC  GREEK LETTER DIGAMMA
- 03DD  GREEK SMALL LETTER DIGAMMA
- used as a symbol with a numeric value of 6
- 03DE  GREEK LETTER KOPPA
- 03DF  GREEK SMALL LETTER KOPPA
- used in modern Greek as a symbol with a numeric value of 90, as in the dating of legal documentation
- 03E0  GREEK LETTER SAMPI
- 03E1  GREEK SMALL LETTER SAMPI
- used as a symbol with a numeric value of 900

**Coptic letters derived from Demotic**

*For other Coptic letters see the Coptic Block.*

- 03E2  COPTIC CAPITAL LETTER SHEI
- 03E3  COPTIC SMALL LETTER SHEI
- 03E4  COPTIC CAPITAL LETTER FEI
- 03E5  COPTIC SMALL LETTER FEI
- 03E6  COPTIC CAPITAL LETTER KHEI
- 03E7  COPTIC SMALL LETTER KHEI
- 03E8  COPTIC CAPITAL LETTER HORI
- 03E9  COPTIC SMALL LETTER HORI
- 03EA  COPTIC CAPITAL LETTER GANGIA
- 03EB  COPTIC SMALL LETTER GANGIA
- 03EC  COPTIC CAPITAL LETTER SHIMA
- 03ED  COPTIC SMALL LETTER SHIMA
- 03EE  COPTIC CAPITAL LETTER DEI
- 03EF  COPTIC SMALL LETTER DEI

**Variant letterforms**






- 03F0  GREEK KAPPA SYMBOL
- = script kappa
  - used as technical symbol
- ≈ 03BA  greek small letter kappa
- 03F1  GREEK RHO SYMBOL
- = tailed rho
  - used as technical symbol
- ≈ 03C1  greek small letter rho
- 03F2  GREEK LUNATE SIGMA SYMBOL
- = greek small letter lunate sigma (1.0)
  - ≈ 03C2  greek small letter final sigma

**Additional letter**

- 03F3  GREEK LETTER YOT

**Variant letterforms and symbols**

- 03F4  GREEK CAPITAL THETA SYMBOL
- 0472  cyrillic capital letter fita
  - ≈ 0398  greek capital letter theta

- 03F5  GREEK LUNATE EPSILON SYMBOL
- = straight epsilon
  - 220A  small element of
  - ≈ 03B5  greek small letter epsilon
- 03F6  GREEK REVERSED LUNATE EPSILON SYMBOL
- = reversed straight epsilon
  - 220D  small contains as member

**Additional archaic letters for Bactrian**

- 03F7  GREEK CAPITAL LETTER SHO
- 03F8  GREEK SMALL LETTER SHO



**Variant letterform**

- 03F9  GREEK CAPITAL LUNATE SIGMA SYMBOL
- ≈ 03A3  greek capital letter sigma

**Archaic letters**

- 03FA  GREEK CAPITAL LETTER SAN
- 03FB  GREEK SMALL LETTER SAN

**Symbol**

- 03FC  GREEK RHO WITH STROKE SYMBOL
- used with abbreviations containing 03C1  p

**Editorial symbols**

- 03FD  GREEK CAPITAL REVERSED LUNATE SIGMA SYMBOL
- = antisigma
- 03FE  GREEK CAPITAL DOTTED LUNATE SIGMA SYMBOL
- = sigma periestigmenon
- 03FF  GREEK CAPITAL REVERSED DOTTED LUNATE SIGMA SYMBOL
- = antisigma periestigmenon

0400

Cyrillic

04FF

	040	041	042	043	044	045	046	047	048	049	04A	04B	04C	04D	04E	04F
0	È 0400	А 0410	Р 0420	а 0430	р 0440	è 0450	Ѡ 0460	Ѳ 0470	С 0480	Г 0490	К 04A0	У 04B0	І 04C0	Ǻ 04D0	З 04E0	ÿ 04F0
1	Ё 0401	Б 0411	С 0421	б 0431	с 0441	ё 0451	ѡ 0461	ѳ 0471	с 0481	г 0491	к 04A1	у 04B1	Ж 04C1	ǻ 04D1	з 04E1	ÿ 04F1
2	Ѣ 0402	В 0412	Т 0422	в 0432	т 0442	ђ 0452	Ѥ 0462	Ө 0472	Ѽ 0482	Ғ 0492	Ң 04A2	Х 04B2	Ж 04C2	Ǻ 04D2	Й 04E2	Ў 04F2
3	Ѓ 0403	Г 0413	У 0423	г 0433	у 0443	ѓ 0453	ѥ 0463	ө 0473	̊ 0483	ғ 0493	ң 04A3	х 04B3	Қ 04C3	ǻ 04D3	й 04E3	ў 04F3
4	Є 0404	Д 0414	Ф 0424	д 0434	ф 0444	є 0454	Ј 0464	Ѧ 0474	̋ 0484	Ђ 0494	Н 04A4	Ц 04B4	қ 04C4	Æ 04D4	Й 04E4	Ї 04F4
5	Ѕ 0405	Е 0415	Х 0425	е 0435	х 0445	ѕ 0455	Ј 0465	ѧ 0475	̋ 0485	ђ 0495	н 04A5	ц 04B5	Л 04C5	æ 04D5	й 04E5	ї 04F5
6	І 0406	Ж 0416	Ц 0426	ж 0436	ц 0446	і 0456	А 0466	Ѧ 0476	̋ 0486	Ж 0496	Љ 04A6	Ч 04B6	л 04C6	Ё 04D6	Ö 04E6	Г 04F6
7	Ї 0407	З 0417	Ч 0427	з 0437	ч 0447	ї 0457	А 0467	Ѧ 0477	̋ 0487	ж 0497	љ 04A7	ч 04B7	Н 04C7	ё 04D7	ö 04E7	г 04F7
8	Ј 0408	И 0418	Ш 0428	и 0438	ш 0448	ј 0458	Ѓ 0468	0у 0478	☼ 0488	З 0498	Ѧ 04A8	Ч 04B8	н 04C8	Э 04D8	Ө 04E8	Ї 04F8
9	Љ 0409	Й 0419	Щ 0429	й 0439	щ 0449	љ 0459	Ѓ 0469	0у 0479	☼ 0489	з 0499	Ѧ 04A9	ч 04B9	Н 04C9	э 04D9	ө 04E9	ї 04F9
A	Њ 040A	К 041A	Ѣ 042A	к 043A	ѣ 044A	њ 045A	Ѧ 046A	О 047A	Й 048A	Қ 049A	Ң 04AA	Һ 04BA	ң 04CA	Э 04DA	Ө 04EA	Ғ 04FA
B	Ѥ 040B	Л 041B	Ы 042B	л 043B	ы 044B	ћ 045B	Ѧ 046B	О 047B	й 048B	қ 049B	Ң 04AB	Һ 04BB	Ч 04CB	э 04DB	ө 04EB	Ғ 04FB
C	Ќ 040C	М 041C	Ь 042C	м 043C	ь 044C	ќ 045C	Ѓ 046C	Ѧ 047C	Ѣ 048C	К 049C	Т 04AC	Ѓ 04BC	ч 04CC	Ж 04DC	Э 04EC	Х 04FC
D	Й 040D	Н 041D	Э 042D	н 043D	э 044D	й 045D	Ѓ 046D	Ѧ 047D	Ѣ 048D	к 049D	т 04AD	Ѓ 04BD	М 04CD	ж 04DD	э 04ED	х 04FD
E	Ў 040E	О 041E	Ю 042E	о 043E	ю 044E	ў 045E	Ѣ 046E	Ѧ 047E	Р 048E	К 049E	У 04AE	Ѓ 04BE	М 04CE	З 04DE	У 04EE	Х 04FE
F	Ц 040F	П 041F	Я 042F	п 043F	я 044F	ц 045F	Ѣ 046F	Ѧ 047F	р 048F	к 049F	у 04AF	Ѓ 04BF	І 04CF	З 04DF	У 04EF	х 04FF

**Cyrillic extensions**

0400	Ё	CYRILLIC CAPITAL LETTER IE WITH GRAVE ≡ 0415 Е 0300 ѐ
0401	Ѧ	CYRILLIC CAPITAL LETTER IO ≡ 0415 Е 0308 Ѣ
0402	Ђ	CYRILLIC CAPITAL LETTER DJE
0403	Ѓ	CYRILLIC CAPITAL LETTER GJE ≡ 0413 Г 0301 ђ
0404	Є	CYRILLIC CAPITAL LETTER UKRAINIAN IE
0405	Ѕ	CYRILLIC CAPITAL LETTER DZE
0406	І	CYRILLIC CAPITAL LETTER BYELORUSSIAN-UKRAINIAN I → 0049 I latin capital letter i → 0456 і cyrillic small letter byelorussian-ukrainian i → 04C0 І cyrillic letter palochka
0407	Ї	CYRILLIC CAPITAL LETTER YI ≡ 0406 І 0308 ѣ
0408	Ј	CYRILLIC CAPITAL LETTER JE
0409	Љ	CYRILLIC CAPITAL LETTER LJE
040A	Њ	CYRILLIC CAPITAL LETTER NJE
040B	Ѡ	CYRILLIC CAPITAL LETTER TSHE
040C	Ѣ	CYRILLIC CAPITAL LETTER KJE ≡ 041A К 0301 ѓ
040D	Ѕ	CYRILLIC CAPITAL LETTER I WITH GRAVE ≡ 0418 И 0300 ѝ
040E	Ѹ	CYRILLIC CAPITAL LETTER SHORT U ≡ 0423 У 0306 ѹ
040F	Ѻ	CYRILLIC CAPITAL LETTER DZHE
<b>Basic Russian alphabet</b>		
0410	А	CYRILLIC CAPITAL LETTER A
0411	Б	CYRILLIC CAPITAL LETTER BE → 0183 Б latin small letter b with topbar
0412	В	CYRILLIC CAPITAL LETTER VE
0413	Г	CYRILLIC CAPITAL LETTER GHE
0414	Д	CYRILLIC CAPITAL LETTER DE
0415	Е	CYRILLIC CAPITAL LETTER IE
0416	Ж	CYRILLIC CAPITAL LETTER ZHE
0417	З	CYRILLIC CAPITAL LETTER ZE
0418	И	CYRILLIC CAPITAL LETTER I
0419	Й	CYRILLIC CAPITAL LETTER SHORT I ≡ 0418 И 0306 Ѣ
041A	К	CYRILLIC CAPITAL LETTER KA
041B	Л	CYRILLIC CAPITAL LETTER EL
041C	М	CYRILLIC CAPITAL LETTER EM
041D	Н	CYRILLIC CAPITAL LETTER EN
041E	О	CYRILLIC CAPITAL LETTER O
041F	П	CYRILLIC CAPITAL LETTER PE
0420	Р	CYRILLIC CAPITAL LETTER ER
0421	С	CYRILLIC CAPITAL LETTER ES
0422	Т	CYRILLIC CAPITAL LETTER TE
0423	У	CYRILLIC CAPITAL LETTER U → 0478 0у cyrillic capital letter uk → 04AF У cyrillic small letter straight u → A64A Ѹ cyrillic capital letter monograph uk
0424	Ф	CYRILLIC CAPITAL LETTER EF
0425	Х	CYRILLIC CAPITAL LETTER HA
0426	Ц	CYRILLIC CAPITAL LETTER TSE

0427	Ч	CYRILLIC CAPITAL LETTER CHE
0428	Ш	CYRILLIC CAPITAL LETTER SHA
0429	Щ	CYRILLIC CAPITAL LETTER SHCHA
042A	Ъ	CYRILLIC CAPITAL LETTER HARD SIGN
042B	Ы	CYRILLIC CAPITAL LETTER YERU
042C	Ь	CYRILLIC CAPITAL LETTER SOFT SIGN
042D	Э	CYRILLIC CAPITAL LETTER E
042E	Ю	CYRILLIC CAPITAL LETTER YU
042F	Я	CYRILLIC CAPITAL LETTER YA
0430	а	CYRILLIC SMALL LETTER A
0431	б	CYRILLIC SMALL LETTER BE
0432	в	CYRILLIC SMALL LETTER VE
0433	г	CYRILLIC SMALL LETTER GHE
0434	д	CYRILLIC SMALL LETTER DE
0435	е	CYRILLIC SMALL LETTER IE
0436	ж	CYRILLIC SMALL LETTER ZHE
0437	з	CYRILLIC SMALL LETTER ZE
0438	и	CYRILLIC SMALL LETTER I
0439	й	CYRILLIC SMALL LETTER SHORT I ≡ 0438 и 0306 ѣ
043A	к	CYRILLIC SMALL LETTER KA
043B	л	CYRILLIC SMALL LETTER EL
043C	м	CYRILLIC SMALL LETTER EM
043D	н	CYRILLIC SMALL LETTER EN
043E	о	CYRILLIC SMALL LETTER O
043F	п	CYRILLIC SMALL LETTER PE
0440	р	CYRILLIC SMALL LETTER ER
0441	с	CYRILLIC SMALL LETTER ES
0442	т	CYRILLIC SMALL LETTER TE
0443	у	CYRILLIC SMALL LETTER U
0444	ф	CYRILLIC SMALL LETTER EF
0445	х	CYRILLIC SMALL LETTER HA
0446	ц	CYRILLIC SMALL LETTER TSE
0447	ч	CYRILLIC SMALL LETTER CHE
0448	ш	CYRILLIC SMALL LETTER SHA
0449	щ	CYRILLIC SMALL LETTER SHCHA
044A	ъ	CYRILLIC SMALL LETTER HARD SIGN
044B	ы	CYRILLIC SMALL LETTER YERU → A651 Ы cyrillic small letter yeru with back yer
044C	ь	CYRILLIC SMALL LETTER SOFT SIGN → 0185 б latin small letter tone six → A64F Ь cyrillic small letter neutral yer
044D	э	CYRILLIC SMALL LETTER E
044E	ю	CYRILLIC SMALL LETTER YU → A655 ѡ cyrillic small letter reversed yu
044F	я	CYRILLIC SMALL LETTER YA

**Cyrillic extensions**

0450	ѐ	CYRILLIC SMALL LETTER IE WITH GRAVE • Macedonian ≡ 0435 е 0300 ѐ
0451	ë	CYRILLIC SMALL LETTER IO • Russian, ... ≡ 0435 е 0308 Ѣ
0452	ђ	CYRILLIC SMALL LETTER DJE • Serbian → 0111 đ latin small letter d with stroke



## 0453

- 0453 **Г** CYRILLIC SMALL LETTER GJE  
• Macedonian  
≡ 0433 **г** 0301 **г**
- 0454 **Є** CYRILLIC SMALL LETTER UKRAINIAN IE  
= Old Cyrillic yest
- 0455 **С** CYRILLIC SMALL LETTER DZE  
• Macedonian  
→ A643 **з** cyrillic small letter dzelo
- 0456 **І** CYRILLIC SMALL LETTER BYELORUSSIAN-UKRAINIAN I  
= Old Cyrillic i
- 0457 **і** CYRILLIC SMALL LETTER YI  
• Ukrainian  
≡ 0456 **і** 0308 **і**
- 0458 **Ј** CYRILLIC SMALL LETTER JE  
• Serbian, Azerbaijani, Altay
- 0459 **Љ** CYRILLIC SMALL LETTER LJE  
• Serbian, Macedonian  
→ 01C9 **lj** latin small letter lj
- 045A **Њ** CYRILLIC SMALL LETTER NJE  
• Serbian, Macedonian  
→ 01CC **nj** latin small letter nj
- 045B **Ѣ** CYRILLIC SMALL LETTER TSHE  
• Serbian  
→ 0107 **ě** latin small letter c with acute  
→ 0127 **ћ** latin small letter h with stroke  
→ 040B **Ѣ** cyrillic capital letter tshe  
→ 210F **ћ** planck constant over two pi  
→ A649 **ѣ** cyrillic small letter djerv
- 045C **Ќ** CYRILLIC SMALL LETTER KJE  
• Macedonian  
≡ 043A **к** 0301 **к**
- 045D **Њ** CYRILLIC SMALL LETTER I WITH GRAVE  
• Macedonian, Bulgarian  
≡ 0438 **и** 0300 **и**
- 045E **Ѥ** CYRILLIC SMALL LETTER SHORT U  
• Byelorussian, Uzbek  
≡ 0443 **у** 0306 **у**
- 045F **Ѧ** CYRILLIC SMALL LETTER DZHE  
• Serbian, Macedonian, Abkhasian  
→ 01C6 **dž** latin small letter dz with caron

**Historic letters**

- 0460 **Ѡ** CYRILLIC CAPITAL LETTER OMEGA
- 0461 **ѡ** CYRILLIC SMALL LETTER OMEGA  
→ A64D **ѡ** cyrillic small letter broad omega
- 0462 **Ѣ** CYRILLIC CAPITAL LETTER YAT
- 0463 **ѣ** CYRILLIC SMALL LETTER YAT  
→ A653 **ѣ** cyrillic small letter iotified 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  
→ A659 **ѧ** cyrillic small letter closed little yus  
→ A65B **ѧ** cyrillic small letter blended yus
- 0468 **Ѩ** CYRILLIC CAPITAL LETTER IOTIFIED LITTLE YUS

## Cyrillic

## 0484

- 0469 **ѩ** CYRILLIC SMALL LETTER IOTIFIED LITTLE YUS  
→ 044F **ѩ** cyrillic small letter ya  
→ A65D **ѩ** cyrillic small letter iotified closed little yus
- 046A **Ѫ** CYRILLIC CAPITAL LETTER BIG YUS
- 046B **ѫ** CYRILLIC SMALL LETTER BIG YUS  
→ A65B **ѫ** cyrillic small letter blended 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  
→ 0275 **ө** latin small letter barred o  
→ 03B8 **θ** greek small letter theta
- 0474 **Ѵ** CYRILLIC CAPITAL LETTER IZHITSA
- 0475 **ѵ** CYRILLIC SMALL LETTER IZHITSA
- 0476 **Ѷ** CYRILLIC CAPITAL LETTER IZHITSA WITH DOUBLE GRAVE ACCENT  
≡ 0474 **Ѵ** 030F **Ѵ**
- 0477 **ѷ** CYRILLIC SMALL LETTER IZHITSA WITH DOUBLE GRAVE ACCENT  
≡ 0475 **ѵ** 030F **ѵ**
- 0478 **Ѹ** CYRILLIC CAPITAL LETTER UK  
• may be rendered as either monograph or digraph form  
• for “digraph uk” the preferred spelling is 041E **О** 0443 **у**  
• for “monograph uk” the preferred character is A64A **Ѹ**  
→ 0423 **Ѹ** cyrillic capital letter u
- 0479 **ѹ** CYRILLIC SMALL LETTER UK  
• for “digraph uk” the preferred spelling is 043E **о** 0443 **у**  
• for “monograph uk” the preferred character is A64B **ѹ**
- 047A **Ѻ** CYRILLIC CAPITAL LETTER ROUND OMEGA
- 047B **ѻ** CYRILLIC SMALL LETTER ROUND OMEGA
- 047C **Ѽ** CYRILLIC CAPITAL LETTER OMEGA WITH TITLO  
= Cyrillic “beautiful omega”  
• despite its name, this character does not have a titlo, nor is it composed of an omega plus a diacritic  
→ A64C **Ѽ** cyrillic capital letter broad omega
- 047D **ѽ** CYRILLIC SMALL LETTER OMEGA WITH 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** COMBINING CYRILLIC TITLO  
• not used with letter titlos  
→ A66F **ѣ** combining cyrillic vzmet
- 0484 **Ѥ** COMBINING CYRILLIC PALATALIZATION  
→ 033E **Ѥ** combining vertical tilde

- 0485 ѿ COMBINING CYRILLIC DASIA PNEUMATA  
→ 0314 ѿ combining reversed comma above
- 0486 ѿ COMBINING CYRILLIC PSILI PNEUMATA  
→ 0313 ѿ combining comma above
- 0487 ѿ COMBINING CYRILLIC POKRYTIE  
• used only with letter titlos  
→ 0311 ѿ combining inverted breve  
→ A66F ѿ combining cyrillic vzmet
- 0488 ѿ COMBINING CYRILLIC HUNDRED THOUSANDS SIGN  
• use 20DD ☺ for ten thousands sign
- 0489 ѿ COMBINING CYRILLIC MILLIONS SIGN  
→ A670 ѿ combining cyrillic ten millions sign

**Extended Cyrillic**

- 048A Ъ CYRILLIC CAPITAL LETTER SHORT I WITH TAIL
- 048B ѡ CYRILLIC SMALL LETTER SHORT I WITH TAIL  
• Kildin Sami
- 048C Ь CYRILLIC CAPITAL LETTER SEMISOFT SIGN
- 048D ѣ CYRILLIC SMALL LETTER SEMISOFT SIGN  
• Kildin Sami
- 048E Р CYRILLIC CAPITAL LETTER ER WITH TICK
- 048F р CYRILLIC SMALL LETTER ER WITH TICK  
• Kildin Sami
- 0490 І CYRILLIC CAPITAL LETTER GHE WITH UPTURN
- 0491 і CYRILLIC SMALL LETTER GHE WITH UPTURN  
• Ukrainian
- 0492 Ҁ CYRILLIC CAPITAL LETTER GHE WITH STROKE
- 0493 ҁ CYRILLIC SMALL LETTER GHE WITH STROKE  
• Azerbaijani, Bashkir, ...  
• full bar form preferred over half-barred “F”-type
- 0494 Ъ CYRILLIC CAPITAL LETTER GHE WITH MIDDLE HOOK
- 0495 ѣ CYRILLIC SMALL LETTER GHE WITH MIDDLE HOOK  
• Yakut, older orthographies for Abkhasian
- 0496 Ж CYRILLIC CAPITAL LETTER ZHE WITH DESCENDER
- 0497 ж CYRILLIC SMALL LETTER ZHE WITH DESCENDER  
• Tatar, ...
- 0498 З CYRILLIC CAPITAL LETTER ZE WITH DESCENDER
- 0499 з CYRILLIC SMALL LETTER ZE WITH DESCENDER  
• Bashkir  
• letterforms with right hooks are preferred, although occasional variants with left hooks occur
- 049A К CYRILLIC CAPITAL LETTER KA WITH DESCENDER
- 049B к CYRILLIC SMALL LETTER KA WITH DESCENDER  
• Abkhasian, Tajik, ...
- 049C К CYRILLIC CAPITAL LETTER KA WITH VERTICAL STROKE
- 049D к CYRILLIC SMALL LETTER KA WITH VERTICAL STROKE  
• Azerbaijani
- 049E К CYRILLIC CAPITAL LETTER KA WITH STROKE
- 049F к CYRILLIC SMALL LETTER KA WITH STROKE  
• Abkhasian
- 04A0 К CYRILLIC CAPITAL LETTER BASHKIR KA
- 04A1 к CYRILLIC SMALL LETTER BASHKIR KA
- 04A2 Ҡ CYRILLIC CAPITAL LETTER EN WITH DESCENDER

- 04A3 Ң CYRILLIC SMALL LETTER EN WITH DESCENDER  
• Bashkir, ...
- 04A4 Ҥ CYRILLIC CAPITAL LIGATURE EN GHE
- 04A5 ҥ CYRILLIC SMALL LIGATURE EN GHE  
• Altay, Mari, Yakut  
• this is not a decomposable ligature
- 04A6 Ҧ CYRILLIC CAPITAL LETTER PE WITH MIDDLE HOOK
- 04A7 ҧ CYRILLIC SMALL LETTER PE WITH MIDDLE HOOK  
• older orthographies for Abkhasian
- 04A8 Ҩ CYRILLIC CAPITAL LETTER ABKHASIAN HA
- 04A9 ҩ CYRILLIC SMALL LETTER ABKHASIAN HA
- 04AA Ҫ CYRILLIC CAPITAL LETTER ES WITH DESCENDER
- 04AB ҫ CYRILLIC SMALL LETTER ES WITH DESCENDER  
• Bashkir, Chuvash  
• letterforms with right hooks are preferred, although occasional variants with left hooks occur  
• in Chuvashia, letterforms identical to or similar in form to 00E7 ç regularly occur
- 04AC Ҭ CYRILLIC CAPITAL LETTER TE WITH DESCENDER
- 04AD ҭ CYRILLIC SMALL LETTER TE WITH DESCENDER  
• Abkhasian
- 04AE Ү CYRILLIC CAPITAL LETTER STRAIGHT U
- 04AF ү CYRILLIC SMALL LETTER STRAIGHT U  
• stem is straight, unlike LETTER U  
• Azerbaijani, Bashkir, ...  
→ 0423 Ү cyrillic capital letter u
- 04B0 Ұ CYRILLIC CAPITAL LETTER STRAIGHT U WITH STROKE
- 04B1 ұ CYRILLIC SMALL LETTER STRAIGHT U WITH STROKE  
• Kazakh
- 04B2 Ҳ CYRILLIC CAPITAL LETTER HA WITH DESCENDER
- 04B3 Һ CYRILLIC SMALL LETTER HA WITH DESCENDER  
• Abkhasian, Tajik, Uzbek
- 04B4 Ҫ CYRILLIC CAPITAL LIGATURE TE TSE
- 04B5 ҥ CYRILLIC SMALL LIGATURE TE TSE  
• Abkhasian  
• this is not a decomposable ligature
- 04B6 Ҫ CYRILLIC CAPITAL LETTER CHE WITH DESCENDER
- 04B7 ҧ CYRILLIC SMALL LETTER CHE WITH DESCENDER  
• Abkhasian, Tajik
- 04B8 Ҫ CYRILLIC CAPITAL LETTER CHE WITH VERTICAL STROKE
- 04B9 ҧ CYRILLIC SMALL LETTER CHE WITH VERTICAL STROKE  
• Azerbaijani
- 04BA Һ CYRILLIC CAPITAL LETTER SHHA
- 04BB Һ CYRILLIC SMALL LETTER SHHA  
• originally derived from Latin “h”, but uppercase form 04BA Һ is closer to an inverted che (0427 Ч)  
• Azerbaijani, Bashkir, ...  
→ 0068 h latin small letter h
- 04BC Ҫ CYRILLIC CAPITAL LETTER ABKHASIAN CHE
- 04BD ҥ CYRILLIC SMALL LETTER ABKHASIAN CHE
- 04BE Ҫ CYRILLIC CAPITAL LETTER ABKHASIAN CHE WITH DESCENDER

## 04BF

## Cyrillic

## 04F5

04BF	Ҁ	CYRILLIC SMALL LETTER ABKHASIAN CHE WITH DESCENDER • some older Abkhaz fonts show a descender shaped like a right hook (ogonek or reversed comma shape)	04DB	Ӑ	CYRILLIC SMALL LETTER SCHWA WITH DIAERESIS ≡ 04D9 ӑ 0308 ӓ
04C0	І	CYRILLIC LETTER PALOCHKA • aspiration sign in many Caucasian languages • is usually not cased, but the formal lowercase is 04CF І → 0049 І latin capital letter i → 0406 І cyrillic capital letter byelorussian-ukrainian i	04DC	Ӗ	CYRILLIC CAPITAL LETTER ZHE WITH DIAERESIS ≡ 0416 Ә 0308 Ӛ
04C1	Ӗ	CYRILLIC CAPITAL LETTER ZHE WITH BREVE ≡ 0416 Ә 0306 Ӛ	04DD	ӗ	CYRILLIC SMALL LETTER ZHE WITH DIAERESIS ≡ 0436 ӛ 0308 ӟ
04C2	ӗ	CYRILLIC SMALL LETTER ZHE WITH BREVE • Moldavian ≡ 0436 ӛ 0306 ӟ	04DE	Ӛ	CYRILLIC CAPITAL LETTER ZE WITH DIAERESIS ≡ 0417 ӛ 0308 ӟ
04C3	Ӗ	CYRILLIC CAPITAL LETTER KA WITH HOOK	04DF	ӗ	CYRILLIC SMALL LETTER ZE WITH DIAERESIS ≡ 0437 ӛ 0308 ӟ
04C4	ӗ	CYRILLIC SMALL LETTER KA WITH HOOK • Khanty, Chukchi	04E0	Ӗ	CYRILLIC CAPITAL LETTER ABKHASIAN DZE
04C5	Ӗ	CYRILLIC CAPITAL LETTER EL WITH TAIL	04E1	ӗ	CYRILLIC SMALL LETTER ABKHASIAN DZE → 0292 ӓ latin small letter ezh
04C6	ӗ	CYRILLIC SMALL LETTER EL WITH TAIL • Kildin Sami	04E2	Ӗ	CYRILLIC CAPITAL LETTER I WITH MACRON ≡ 0418 Ӗ 0304 Ӛ
04C7	Ӗ	CYRILLIC CAPITAL LETTER EN WITH HOOK	04E3	ӗ	CYRILLIC SMALL LETTER I WITH MACRON ≡ 0438 ӛ 0304 ӟ
04C8	ӗ	CYRILLIC SMALL LETTER EN WITH HOOK • Khanty, Chukchi, Nenets	04E4	Ӗ	CYRILLIC CAPITAL LETTER I WITH DIAERESIS ≡ 0418 Ӗ 0308 ӟ
04C9	Ӗ	CYRILLIC CAPITAL LETTER EN WITH TAIL	04E5	ӗ	CYRILLIC SMALL LETTER I WITH DIAERESIS ≡ 0438 ӛ 0308 ӟ
04CA	ӗ	CYRILLIC SMALL LETTER EN WITH TAIL • Kildin Sami	04E6	Ӗ	CYRILLIC CAPITAL LETTER O WITH DIAERESIS ≡ 041E Ӗ 0308 ӟ
04CB	Ӗ	CYRILLIC CAPITAL LETTER KHAKASSIAN CHE	04E7	ӗ	CYRILLIC SMALL LETTER O WITH DIAERESIS ≡ 043E ӛ 0308 ӟ
04CC	ӗ	CYRILLIC SMALL LETTER KHAKASSIAN CHE	04E8	Ӗ	CYRILLIC CAPITAL LETTER BARRED O
04CD	Ӗ	CYRILLIC CAPITAL LETTER EM WITH TAIL	04E9	ӗ	CYRILLIC SMALL LETTER BARRED O → 0275 ӓ latin small letter barred o
04CE	ӗ	CYRILLIC SMALL LETTER EM WITH TAIL • Kildin Sami	04EA	Ӗ	CYRILLIC CAPITAL LETTER BARRED O WITH DIAERESIS ≡ 04E8 Ӗ 0308 ӟ
04CF	І	CYRILLIC SMALL LETTER PALOCHKA	04EB	Ӑ	CYRILLIC SMALL LETTER BARRED O WITH DIAERESIS ≡ 04E9 ӓ 0308 ӟ
04D0	Ӗ	CYRILLIC CAPITAL LETTER A WITH BREVE ≡ 0410 Ӗ 0306 Ӛ	04EC	Ӗ	CYRILLIC CAPITAL LETTER E WITH DIAERESIS ≡ 042D Ӗ 0308 ӟ
04D1	ӗ	CYRILLIC SMALL LETTER A WITH BREVE ≡ 0430 ӛ 0306 ӟ	04ED	ӗ	CYRILLIC SMALL LETTER E WITH DIAERESIS • Kildin Sami ≡ 044D ӛ 0308 ӟ
04D2	Ӗ	CYRILLIC CAPITAL LETTER A WITH DIAERESIS ≡ 0410 Ӗ 0308 ӟ	04EE	Ӗ	CYRILLIC CAPITAL LETTER U WITH MACRON ≡ 0423 Ӗ 0304 Ӛ
04D3	ӗ	CYRILLIC SMALL LETTER A WITH DIAERESIS ≡ 0430 ӛ 0308 ӟ	04EF	ӗ	CYRILLIC SMALL LETTER U WITH MACRON ≡ 0443 ӛ 0304 ӟ
04D4	Ӗ	CYRILLIC CAPITAL LIGATURE A IE	04F0	Ӗ	CYRILLIC CAPITAL LETTER U WITH DIAERESIS ≡ 0423 Ӗ 0308 ӟ
04D5	ӗ	CYRILLIC SMALL LIGATURE A IE • this is not a decomposable ligature → 00E6 ӓ latin small letter ae	04F1	ӗ	CYRILLIC SMALL LETTER U WITH DIAERESIS ≡ 0443 ӛ 0308 ӟ
04D6	Ӗ	CYRILLIC CAPITAL LETTER IE WITH BREVE ≡ 0415 Ӗ 0306 Ӛ	04F2	Ӗ	CYRILLIC CAPITAL LETTER U WITH DOUBLE ACUTE ≡ 0423 Ӗ 0308 ӟ
04D7	ӗ	CYRILLIC SMALL LETTER IE WITH BREVE ≡ 0435 ӛ 0306 ӟ	04F3	ӗ	CYRILLIC SMALL LETTER U WITH DOUBLE ACUTE ≡ 0443 ӛ 0308 ӟ
04D8	Ӗ	CYRILLIC CAPITAL LETTER SCHWA	04F4	Ӗ	CYRILLIC CAPITAL LETTER CHE WITH DIAERESIS ≡ 0427 Ӗ 0308 ӟ
04D9	ӗ	CYRILLIC SMALL LETTER SCHWA → 0259 ӓ latin small letter schwa	04F5	ӗ	CYRILLIC SMALL LETTER CHE WITH DIAERESIS ≡ 0447 ӛ 0308 ӟ
04DA	Ӗ	CYRILLIC CAPITAL LETTER SCHWA WITH DIAERESIS ≡ 04D8 Ӗ 0308 ӟ			

- 04F6 Г CYRILLIC CAPITAL LETTER GHE WITH DESCENDER
- 04F7 г CYRILLIC SMALL LETTER GHE WITH DESCENDER  
•Yupik
- 04F8 ЪІ CYRILLIC CAPITAL LETTER YERU WITH DIAERESIS  
≡ 042B ЪІ 0308 ӱ
- 04F9 ъі CYRILLIC SMALL LETTER YERU WITH DIAERESIS  
≡ 044B ъі 0308 ӱ

**Additions for Nivkh**

- 04FA Ӑ CYRILLIC CAPITAL LETTER GHE WITH STROKE AND HOOK
- 04FB ӑ CYRILLIC SMALL LETTER GHE WITH STROKE AND HOOK
- 04FC Ӗ CYRILLIC CAPITAL LETTER HA WITH HOOK
- 04FD ӗ CYRILLIC SMALL LETTER HA WITH HOOK
- 04FE Ӑ CYRILLIC CAPITAL LETTER HA WITH STROKE
- 04FF ӑ CYRILLIC SMALL LETTER HA WITH STROKE

	050	051	052
0	Д 0500	Э 0510	Љ 0520
1	д 0501	э 0511	љ 0521
2	Ѓ 0502	Ј 0512	Њ 0522
3	ѓ 0503	ј 0513	њ 0523
4	Ѕ 0504	ЈХ 0514	Њ 0524
5	ѕ 0505	јх 0515	њ 0525
6	Ѓ 0506	Ќ 0516	ћ 0526
7	ѓ 0507	ќ 0517	ћ 0527
8	Љ 0508	ЈЕ 0518	
9	љ 0509	је 0519	
A	Ћ 050A	Ќ 051A	
B	ћ 050B	ќ 051B	
C	Ѓ 050C	Њ 051C	
D	ѓ 050D	њ 051D	
E	Ћ 050E	Ќ 051E	
F	ћ 050F	ќ 051F	

**Komi letters**

0500	Ӏ	CYRILLIC CAPITAL LETTER KOMI DE
0501	Ӂ	CYRILLIC SMALL LETTER KOMI DE
0502	ӂ	CYRILLIC CAPITAL LETTER KOMI DJE
0503	Ӄ	CYRILLIC SMALL LETTER KOMI DJE
0504	ӄ	CYRILLIC CAPITAL LETTER KOMI ZJE
0505	Ӆ	CYRILLIC SMALL LETTER KOMI ZJE
0506	ӆ	CYRILLIC CAPITAL LETTER KOMI DZJE
0507	Ӈ	CYRILLIC SMALL LETTER KOMI DZJE
0508	ӈ	CYRILLIC CAPITAL LETTER KOMI LJE
0509	Ӊ	CYRILLIC SMALL LETTER KOMI LJE
050A	ӊ	CYRILLIC CAPITAL LETTER KOMI NJE
050B	Ӌ	CYRILLIC SMALL LETTER KOMI NJE
050C	ӌ	CYRILLIC CAPITAL LETTER KOMI SJE
050D	Ӎ	CYRILLIC SMALL LETTER KOMI SJE
050E	ӎ	CYRILLIC CAPITAL LETTER KOMI TJE
050F	ӏ	CYRILLIC SMALL LETTER KOMI TJE

**Cyrillic extensions**

0510	Ӑ	CYRILLIC CAPITAL LETTER REVERSED ZE
0511	ӑ	CYRILLIC SMALL LETTER REVERSED ZE • Enets, Khanty
0512	Ӓ	CYRILLIC CAPITAL LETTER EL WITH HOOK
0513	ӓ	CYRILLIC SMALL LETTER EL WITH HOOK • Chukchi, Itelmen, Khanty

**Mordvin letters**

0514	Ӕ	CYRILLIC CAPITAL LETTER LHA
0515	ӕ	CYRILLIC SMALL LETTER LHA = voiceless l
0516	Ӧ	CYRILLIC CAPITAL LETTER RHA
0517	ӧ	CYRILLIC SMALL LETTER RHA = voiceless r
0518	Ө	CYRILLIC CAPITAL LETTER YAE
0519	ө	CYRILLIC SMALL LETTER YAE

**Kurdish letters**

051A	Q	CYRILLIC CAPITAL LETTER QA
051B	q	CYRILLIC SMALL LETTER QA
051C	W	CYRILLIC CAPITAL LETTER WE
051D	w	CYRILLIC SMALL LETTER WE

**Aleut letter**

051E	Ӑ	CYRILLIC CAPITAL LETTER ALEUT KA
051F	ӑ	CYRILLIC SMALL LETTER ALEUT KA • used for [q] in Aleut

**Chuvash letters**

*These are obsolete letters formerly used in Jakovlev's Chuvash orthography.*

0520	Ӣ	CYRILLIC CAPITAL LETTER EL WITH MIDDLE HOOK
0521	ӣ	CYRILLIC SMALL LETTER EL WITH MIDDLE HOOK = palatalized l
0522	Ӥ	CYRILLIC CAPITAL LETTER EN WITH MIDDLE HOOK
0523	ӥ	CYRILLIC SMALL LETTER EN WITH MIDDLE HOOK = palatalized n





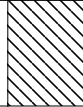
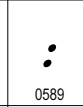

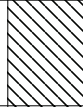
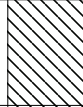
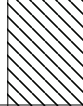
**Abkhaz letters**

0524	Ӧ	CYRILLIC CAPITAL LETTER PE WITH DESCENDER
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0525	ӧ	CYRILLIC SMALL LETTER PE WITH DESCENDER • used in modern Abkhaz orthography → 04A7 ӧ cyrillic small letter pe with middle hook
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**Azerbaijani letters**

0526	ӧ	CYRILLIC CAPITAL LETTER SHHA WITH DESCENDER
0527	ӧ	CYRILLIC SMALL LETTER SHHA WITH DESCENDER

	053	054	055	056	057	058
0		Հ 0540	Ր 0550		Հ 0570	Ր 0580
1	Ա 0531	Զ 0541	Յ 0551	Մ 0561	Ճ 0571	Գ 0581
2	Բ 0532	Ղ 0542	Ի 0552	Բ 0562	Ղ 0572	Լ 0582
3	Գ 0533	Ճ 0543	Փ 0553	Դ 0563	Ճ 0573	Վ 0583
4	Դ 0534	Մ 0544	Ք 0554	Դ 0564	Մ 0574	Ք 0584
5	Ե 0535	Յ 0545	Օ 0555	Ե 0565	Յ 0575	Օ 0585
6	Զ 0536	Ն 0546	Ֆ 0556	Զ 0566	Ն 0576	Ֆ 0586
7	Է 0537	Շ 0547		Է 0567	Շ 0577	Լ 0587
8	Ը 0538	Ո 0548		Ը 0568	Ո 0578	
9	Թ 0539	Չ 0549	Ր 0559	Թ 0569	Չ 0579	Ր 0589
A	Ժ 053A	Պ 054A	Պ 055A	Ժ 056A	Պ 057A	Պ 058A
B	Ի 053B	Ջ 054B	Վ 055B	Ի 056B	Ջ 057B	
C	Լ 053C	Դ 054C	Ն 055C	Լ 056C	Դ 057C	
D	Խ 053D	Ս 054D	Շ 055D	Խ 056D	Ս 057D	
E	Վ 053E	Վ 054E	Պ 055E	Վ 056E	Վ 057E	
F	Կ 053F	Տ 054F	Վ 055F	Կ 056F	Տ 057F	

**Uppercase letters**

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	Վ	ARMENIAN CAPITAL LETTER CA
053F	Կ	ARMENIAN CAPITAL LETTER KEN
0540	Հ	ARMENIAN CAPITAL LETTER HO
0541	Ջ	ARMENIAN CAPITAL LETTER JA
0542	Ղ	ARMENIAN CAPITAL LETTER GHAD
0543	Ճ	ARMENIAN CAPITAL LETTER CHEH
0544	Մ	ARMENIAN CAPITAL LETTER MEN
0545	Ի	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	Թ	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

**Modifier letters**

0559	՝	ARMENIAN MODIFIER LETTER LEFT HALF RING → 02BD ˘ modifier letter reversed comma → 02BF ˘ modifier letter left half ring → 0314 ˆ combining reversed comma above
055A	՛	ARMENIAN APOSTROPHE = armenian modifier letter right half ring (1.0) → 02BC ˘ modifier letter apostrophe → 02BE ˘ modifier letter right half ring → 0313 ˆ combining comma above
055B	՛	ARMENIAN EMPHASIS MARK = shesht → 02CA ˘ modifier letter acute accent
055C	~	ARMENIAN EXCLAMATION MARK = batsaganchakan nshan
055D	՛	ARMENIAN COMMA = bowt → 02CB ˘ modifier letter grave accent

055E	՞	ARMENIAN QUESTION MARK = hartsakan nshan
055F	՟	ARMENIAN ABBREVIATION MARK = patiw

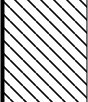
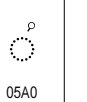
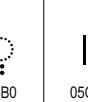




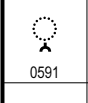
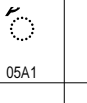


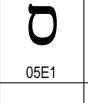
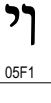

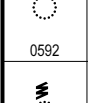
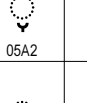
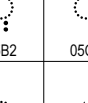


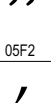

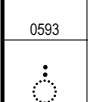
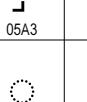



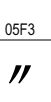

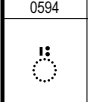
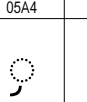


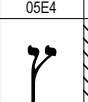



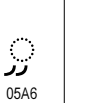





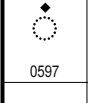
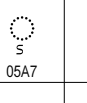
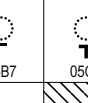
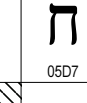
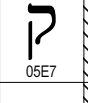


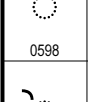
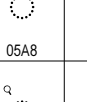

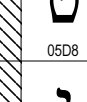
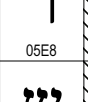


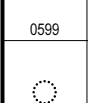
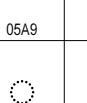
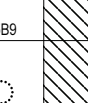




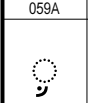
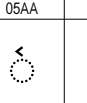
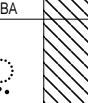






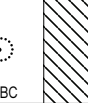




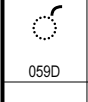
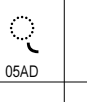

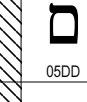



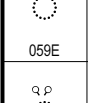
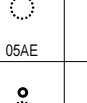
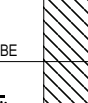
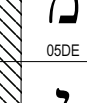



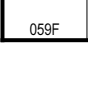
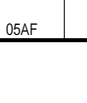



















**Lowercase letters**

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	վ	ARMENIAN SMALL LETTER CA
056F	կ	ARMENIAN SMALL LETTER KEN
0570	հ	ARMENIAN SMALL LETTER HO
0571	ձ	ARMENIAN SMALL LETTER JA
0572	ղ	ARMENIAN SMALL LETTER GHAD
0573	ճ	ARMENIAN SMALL LETTER CHEH
0574	մ	ARMENIAN SMALL LETTER MEN
0575	յ	ARMENIAN SMALL LETTER YI
0576	ն	ARMENIAN SMALL LETTER NOW
0577	շ	ARMENIAN SMALL LETTER SHA
0578	ո	ARMENIAN SMALL LETTER VO
0579	չ	ARMENIAN SMALL LETTER CHA
057A	պ	ARMENIAN SMALL LETTER PEH
057B	Ջ	ARMENIAN SMALL LETTER JHEH
057C	ր	ARMENIAN SMALL LETTER RA
057D	ս	ARMENIAN SMALL LETTER SEH
057E	վ	ARMENIAN SMALL LETTER VEW
057F	տ	ARMENIAN SMALL LETTER TIWN
0580	ր	ARMENIAN SMALL LETTER REH
0581	ց	ARMENIAN SMALL LETTER CO
0582	ւ	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	և	ARMENIAN SMALL LIGATURE ECH YIWN ≈ 0565 Ե 0582 Լ

**Punctuation**

0589	։	ARMENIAN FULL STOP = vertsaket • may also be used for Georgian → 003A : colon
058A	֊	ARMENIAN HYPHEN = yentamna



	059	05A	05B	05C	05D	05E	05F
0							
1							
2							
3							
4							
5							
6							
7							
8							
9							
A							
B							
C							
D							
E							
F							

## HEBREW POINT PATAH

- |      |    |  |
|------|----|--|
|      |    | • furitive patah is not a distinct character   |
| 05B8 | ◌ְ | <b>HEBREW POINT QAMATS</b><br>• used generically or as qamats gadol in orthography which distinguishes that from qamats qatan<br>→ 05C7 ◌ֶ hebrew point qamats qatan |
| 05B9 | ◌ׁ | <b>HEBREW POINT HOLAM</b>  |
| 05BA | ◌ׂ | <b>HEBREW POINT HOLAM HASER FOR VAV</b>  |
| 05BB | ◌ֿ | <b>HEBREW POINT QUBUTS</b>   |
| 05BC | ◌׃ | <b>HEBREW POINT DAGESH OR MAPIQ</b><br>= shuruq<br>• falls within the base letter  |
| 05BD | ◌ֹ | <b>HEBREW POINT METEG</b><br>= siluq<br>• may be used as a Hebrew accent sof pasuq   |
| 05BE | ׀  | <b>HEBREW PUNCTUATION MAQAF</b>  |
| 05BF | ◌ׇ | <b>HEBREW POINT RAPE</b><br>→ FB1E ׇ hebrew point judeo-spanish varika   |
| 05C0 | ׀  | <b>HEBREW PUNCTUATION PASEQ</b><br>= legarmeh<br>• may be treated as spacing punctuation, not as a point<br>→ 007C   vertical line                                   |
| 05C1 | ◌ׄ | <b>HEBREW POINT SHIN DOT</b>   |
| 05C2 | ◌ׅ | <b>HEBREW POINT SIN DOT</b>  |
| 05C3 | :  | <b>HEBREW PUNCTUATION SOF PASUQ</b><br>• may be used as a Hebrew punctuation colon<br>→ 003A : colon   |

05C4 ◊ HEBREW MARK UPPER DOT  
05C5 ◌ HEBREW MARK LOWER DOT  
• punctum extraordinarium (Psalms 27:13)  
→ 05B4 ◌ hebrew point hiriq

05C6 ל־ HEBREW PUNCTUATION NUN HAFUKHA  
 • does not historically derive from the letter nun  
 → 05E0 ל־ hebrew letter nun

05C7 ׀ HEBREW POINT QAMATS QATAN  
 → 05B8 ׀ hebrew point qamats

05D0	א	HEBREW LETTER ALEF = aleph → 2135 א alef symbol
05D1	ב	HEBREW LETTER BET → 2136 ב bet symbol
05D2	ג	HEBREW LETTER GIMEL → 2137 ג gimel symbol
05D3	ד	HEBREW LETTER DALET → 2138 ד dalet symbol
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
05DB	כ	HEBREW LETTER KAF

## 05DB

## 05DC

## Hebrew

## 05F4











05DC	ﻝ	HEBREW LETTER LAMED
05DD	ם	HEBREW LETTER FINAL MEM
05DE	מ	HEBREW LETTER MEM
05DF	ן	HEBREW LETTER FINAL NUN
05E0	נ	HEBREW LETTER NUN
05E1	ס	HEBREW LETTER SAMEKH
05E2	ע	HEBREW LETTER AYIN
05E3	ף	HEBREW LETTER FINAL PE
05E4	פ	HEBREW LETTER PE
05E5	צ	HEBREW LETTER FINAL TSADI
05E6	צ	HEBREW LETTER TSADI = zade
05E7	ק	HEBREW LETTER QOF
05E8	ר	HEBREW LETTER RESH
05E9	ש	HEBREW LETTER SHIN
05EA	ת	HEBREW LETTER TAV

**Yiddish digraphs**

05F0	וו	HEBREW LIGATURE YIDDISH DOUBLE VAV = tsvey vovn
05F1	ײ	HEBREW LIGATURE YIDDISH VAV YOD
05F2	װ	HEBREW LIGATURE YIDDISH DOUBLE YOD = tsvey yudn

**Additional punctuation**

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

	060	061	062	063	064	065	066	067	068	069	06A	06B	06C	06D	06E	06F
0	 0600	ص		ذ	-	◌ْ	◌َ	◌ِ	پ	ڈ	غ	گ	ه	ي	◌ْ	◌َ
1	 0601	ع	ء	ر	ف	◌ْ	◌َ	أ	خ	ر	ف	گ	ه	ي	◌ْ	◌َ
2	 0602	◌ْ	آ	ز	ق	◌ْ	◌َ	أ	خ	ر	ب	گ	ه	ي	◌ْ	◌َ
3	 0603	◌ْ	أ	س	ك	◌ْ	◌َ	إ	ج	ر	ف	گ	ه	ي	◌ْ	◌َ
4		◌ْ	و	ش	ل	◌ْ	◌َ	ء	ج	ر	ف	گ	و	-	◌ْ	◌َ
5		◌ْ	إ	ص	م	◌ْ	◌َ	ه	أ	خ	ر	پ	ل	و	ه	◌ْ
6	◌ْ	◌ْ	ئ	ض	ن	◌ْ	◌َ	و	چ	ر	ق	ل	و	ط	◌ْ	◌َ
7	◌ْ	◌ْ	ا	ط	ه	◌ْ	◌َ	و	چ	ر	ف	ل	و	ط	◌ْ	◌َ
8	◌ْ	◌ْ	ب	ظ	و	◌ْ	◌َ	ه	ئ	د	ق	ل	و	◌ْ	◌َ	◌َ
9	◌ْ	◌ْ	ة	ع	ي	◌ْ	◌َ	ه	ئ	د	ك	ن	و	◌ْ	◌َ	◌َ
A	◌ْ	◌ْ	ت	غ	ي	◌ْ	◌َ	ه	ئ	د	ك	ن	و	◌ْ	◌َ	◌َ
B	ف	؛	ث	كت	◌ْ	◌َ	ر	ب	ب	س	ك	ن	و	◌ْ	◌َ	ض
C	،		ج	ك	◌ْ	◌َ	ر	ب	ب	س	ك	ن	و	◌ْ	◌َ	غ
D	◌ْ		ح	ي	◌ْ	◌َ	ر	ب	ب	س	ك	ن	و	◌ْ	◌َ	ع
E	ه	◌ْ	خ	تي	◌ْ	◌َ	ر	ب	ب	س	ك	ن	و	◌ْ	◌َ	م
F	ع	؟	د	ث	◌ْ		و	ت	ڈ	ظ	گ	چ	ف	◌ْ	ر	ه

**Subtending marks**

0600		ARABIC NUMBER SIGN
0601		ARABIC SIGN SANAH
0602		ARABIC FOOTNOTE MARKER
0603		ARABIC SIGN SAFHA

**Radix symbols**

0606		ARABIC-INDIC CUBE ROOT → 221B $\sqrt[3]{\phantom{x}}$ cube root
0607		ARABIC-INDIC FOURTH ROOT → 221C $\sqrt[4]{\phantom{x}}$ fourth root

**Letterlike symbol**

0608		ARABIC RAY
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**Punctuation**

0609		ARABIC-INDIC PER MILLE SIGN → 2030 ‰ per mille sign
060A		ARABIC-INDIC PER TEN THOUSAND SIGN → 2031 ‰ per ten thousand sign

**Currency sign**

060B		AFGHANI SIGN
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**Punctuation**

060C		ARABIC COMMA • also used with Thaana and Syriac in modern text → 002C , comma
060D		ARABIC DATE SEPARATOR

**Poetic marks**

060E		ARABIC POETIC VERSE SIGN
060F		ARABIC SIGN MISRA

**Honorifics**

0610		ARABIC SIGN SALLALLAHOU ALAYHE WASSALLAM • represents sallallahu alayhe wasallam “may God’s peace and blessings be upon him”
0611		ARABIC SIGN ALAYHE ASSALLAM • represents alayhe assalam “upon him be peace”
0612		ARABIC SIGN RAHMATULLAH ALAYHE • represents rahmatullah alayhe “may God have mercy upon him”
0613		ARABIC SIGN RADI ALLAHOU ANHU • represents radi allahu ’anhu “may God be pleased with him”
0614		ARABIC SIGN TAKHALLUS • sign placed over the name or nom-de-plume of a poet, or in some writings used to mark all proper names

**Koranic annotation sign**

0615		ARABIC SMALL HIGH TAH • marks a recommended pause position in some Korans published in Iran and Pakistan • should not be confused with the small TAH sign used as a diacritic for some letters such as 0679 ث
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**Extended Arabic mark**

0616		ARABIC SMALL HIGH LIGATURE ALEF WITH LAM WITH YEH • early Persian
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**Koranic annotation signs**

0617		ARABIC SMALL HIGH ZAIN
0618		ARABIC SMALL FATHA • should not be confused with 064E َ FATHA
0619		ARABIC SMALL DAMMA • should not be confused with 064F ُ DAMMA
061A		ARABIC SMALL KASRA • should not be confused with 0650 ِ KASRA

**Punctuation**

061B		ARABIC SEMICOLON • also used with Thaana and Syriac in modern text → 003B ; semicolon
061C		<reserved>
061D		<reserved>
061E		ARABIC TRIPLE DOT PUNCTUATION MARK
061F		ARABIC QUESTION MARK • also used with Thaana and Syriac in modern text → 003F ? question mark → 2E2E ؟ reversed question mark

**Based on ISO 8859-6**

0621		ARABIC LETTER HAMZA → 02BE ʾ modifier letter right half ring
0622		ARABIC LETTER ALEF WITH MADDA ABOVE ≡ 0627 ʾ 0653 ٱ
0623		ARABIC LETTER ALEF WITH HAMZA ABOVE ≡ 0627 ʾ 0654 ٱ
0624		ARABIC LETTER WAW WITH HAMZA ABOVE ≡ 0648 ۞ 0654 ٱ
0625		ARABIC LETTER ALEF WITH HAMZA BELOW ≡ 0627 ʾ 0655 ٱ
0626		ARABIC LETTER YEH WITH HAMZA ABOVE ≡ 064A ۟ 0654 ٱ
0627		ARABIC LETTER ALEF
0628		ARABIC LETTER BEH
0629		ARABIC LETTER TEH MARBUTA
062A		ARABIC LETTER TEH
062B		ARABIC LETTER THEH
062C		ARABIC LETTER JEEM
062D		ARABIC LETTER HAH
062E		ARABIC LETTER KHAH
062F		ARABIC LETTER DAL
0630		ARABIC LETTER THAL
0631		ARABIC LETTER REH
0632		ARABIC LETTER ZAIN
0633		ARABIC LETTER SEEN
0634		ARABIC LETTER SHEEN
0635		ARABIC LETTER SAD
0636		ARABIC LETTER DAD
0637		ARABIC LETTER TAH
0638		ARABIC LETTER ZAH

- 0639 ع ARABIC LETTER AIN  
 → 01B9 ع latin small letter ezh reversed  
 → 02BF ʿ modifier letter left half ring
- 063A غ ARABIC LETTER GHAIN

**Additions for early Persian and Azerbaijani**

- 063B ك ARABIC LETTER KEHEH WITH TWO DOTS ABOVE
- 063C ك ARABIC LETTER KEHEH WITH THREE DOTS BELOW
- 063D ي ARABIC LETTER FARSI YEH WITH INVERTED V  
 • Azerbaijani
- 063E ي ARABIC LETTER FARSI YEH WITH TWO DOTS ABOVE
- 063F ي ARABIC LETTER FARSI YEH WITH THREE DOTS ABOVE

**Based on ISO 8859-6**

- 0640 - ARABIC TATWEEL  
 = kashida  
 • inserted to stretch characters  
 • also used with Syriac
- 0641 ف ARABIC LETTER FEH
- 0642 ق ARABIC LETTER QAF
- 0643 ك ARABIC LETTER KAF
- 0644 ل ARABIC LETTER LAM
- 0645 م ARABIC LETTER MEEM
- 0646 ن ARABIC LETTER NOON
- 0647 ه ARABIC LETTER HEH
- 0648 و ARABIC LETTER WAW
- 0649 ى ARABIC LETTER ALEF MAKSURA  
 • represents YEH-shaped letter with no dots in any positional form
- 064A ي ARABIC LETTER YEH

**Points from ISO 8859-6**

- 064B َ ARABIC FATHATAN
- 064C ِ ARABIC DAMMATAN
- 064D ُ ARABIC KASRATAN
- 064E َ ARABIC FATHA
- 064F ِ ARABIC DAMMA
- 0650 ُ ARABIC KASRA
- 0651 ْ ARABIC SHADDA
- 0652 ْ ARABIC SUKUN  
 • marks absence of a vowel after the base consonant  
 • used in some Korans to mark a long vowel as ignored  
 • can have a variety of shapes, including a circular one and a shape that looks like ‘◌◌’  
 → 06E1 ْ arabic small high dotless head of khah

**Combining maddah and hamza**

- 0653 ً ARABIC MADDAAH ABOVE
- 0654 ْ ARABIC HAMZA ABOVE
- 0655 َ ARABIC HAMZA BELOW

**Other combining marks**

- 0656 ٲ ARABIC SUBSCRIPT ALEF
- 0657 ٲ ARABIC INVERTED DAMMA  
 = ulfa pesh  
 • Kashmiri, Urdu

- 0658 ٲ ARABIC MARK NOON GHUNNA  
 • Kashmiri and Baluchi  
 • indicates nasalization in Urdu
- 0659 ٲ ARABIC ZWARAKAY  
 • Pashto
- 065A ٲ ARABIC VOWEL SIGN SMALL V ABOVE  
 • African languages
- 065B ٲ ARABIC VOWEL SIGN INVERTED SMALL V ABOVE  
 • African languages
- 065C ٲ ARABIC VOWEL SIGN DOT BELOW  
 • African languages
- 065D ٲ ARABIC REVERSED DAMMA  
 • Ormuri, African languages
- 065E ٲ ARABIC FATHA WITH TWO DOTS  
 • Kalami

**Arabic-Indic digits**

*These digits are used with Arabic proper; for languages of Iran, Pakistan, and India, see the Eastern Arabic-Indic digits at 06F0..06F9.*

- 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

**Punctuation**

- 066A ٪ ARABIC PERCENT SIGN  
 → 0025 % percent sign
- 066B ٫ ARABIC DECIMAL SEPARATOR
- 066C ٫ ARABIC THOUSANDS SEPARATOR  
 → 0027 ' apostrophe  
 → 2019 ’ right single quotation mark
- 066D ★ ARABIC FIVE POINTED STAR  
 • appearance rather variable  
 → 002A \* asterisk

**Archaic letters**

- 066E ٴ ARABIC LETTER DOTLESS BEH
- 066F ٴ ARABIC LETTER DOTLESS QAF

**Point**

- 0670 ٲ ARABIC LETTER SUPERScript ALEF  
 • actually a vowel sign, despite the name

**Extended Arabic letters**

- 0671 ٲ ARABIC LETTER ALEF WASLA  
 • Koranic Arabic
- 0672 ٲ ARABIC LETTER ALEF WITH WAVY HAMZA ABOVE  
 • Baluchi, Kashmiri
- 0673 ٲ ARABIC LETTER ALEF WITH WAVY HAMZA BELOW  
 • Baluchi, Kashmiri

## 0674

## Arabic

## 06A6

0674	ا	ARABIC LETTER HIGH HAMZA
		• Kazakh
		• forms digraphs
0675	آ	ARABIC LETTER HIGH HAMZA ALEF
		• Kazakh
		≈ 0627 ا 0674 ا
0676	و	ARABIC LETTER HIGH HAMZA WAW
		• Kazakh
		≈ 0648 و 0674 ا
0677	ؤ	ARABIC LETTER U WITH HAMZA ABOVE
		• Kazakh
		≈ 06C7 ؤ 0674 ا
0678	ي	ARABIC LETTER HIGH HAMZA YEH
		• Kazakh
		≈ 064A ي 0674 ا
0679	ٹ	ARABIC LETTER TTEH
		• Urdu
067A	ٺ	ARABIC LETTER TTEHEH
		• Sindhi
067B	پ	ARABIC LETTER BEEH
		• Sindhi
067C	ڙ	ARABIC LETTER TEH WITH RING
		• Pashto
067D	ټ	ARABIC LETTER TEH WITH THREE DOTS ABOVE DOWNWARDS
		• Sindhi
067E	پ	ARABIC LETTER PEH
		• Persian, Urdu, ...
067F	ٺ	ARABIC LETTER TEHEH
		• Sindhi
0680	پ	ARABIC LETTER BEHEH
		• Sindhi
0681	خ	ARABIC LETTER HAH WITH HAMZA ABOVE
		• Pashto letter “dze”
0682	ځ	ARABIC LETTER HAH WITH TWO DOTS VERTICAL ABOVE
		• not used in modern Pashto
0683	چ	ARABIC LETTER NYEH
		• Sindhi
0684	ڇ	ARABIC LETTER DYEYH
		• Sindhi
0685	څ	ARABIC LETTER HAH WITH THREE DOTS ABOVE
		• Pashto, Khwarazmian
0686	چ	ARABIC LETTER TCHEH
		• Persian, Urdu, ...
0687	ڇ	ARABIC LETTER TCHEHEH
		• Sindhi
0688	ڙ	ARABIC LETTER DDAL
		• Urdu
0689	ڍ	ARABIC LETTER DAL WITH RING
		• Pashto
068A	ڏ	ARABIC LETTER DAL WITH DOT BELOW
		• Sindhi, early Persian
068B	ڌ	ARABIC LETTER DAL WITH DOT BELOW AND SMALL TAH
		• Lahnda
068C	ڌ	ARABIC LETTER DAHAL
		• Sindhi

068D	ڌ	ARABIC LETTER DDAHALL
		• Sindhi
068E	ڌ	ARABIC LETTER DUL
		• older shape for DUL, now obsolete in Sindhi
		• Burushaski
068F	ڌ	ARABIC LETTER DAL WITH THREE DOTS ABOVE DOWNWARDS
		• Sindhi
		• current shape used for DUL
0690	ڌ	ARABIC LETTER DAL WITH FOUR DOTS ABOVE
		• old Urdu, not in current use
0691	ڌ	ARABIC LETTER RREH
		• Urdu
0692	ڌ	ARABIC LETTER REH WITH SMALL V
		• Kurdish
0693	ڌ	ARABIC LETTER REH WITH RING
		• Pashto
0694	ڌ	ARABIC LETTER REH WITH DOT BELOW
		• Kurdish, early Persian
0695	ڌ	ARABIC LETTER REH WITH SMALL V BELOW
		• Kurdish
0696	ڌ	ARABIC LETTER REH WITH DOT BELOW AND DOT ABOVE
		• Pashto
0697	ڌ	ARABIC LETTER REH WITH TWO DOTS ABOVE
		• Dargwa
0698	ڌ	ARABIC LETTER JEYH
		• Persian, Urdu, ...
0699	ڌ	ARABIC LETTER REH WITH FOUR DOTS ABOVE
		• Sindhi
069A	ڌ	ARABIC LETTER SEEN WITH DOT BELOW AND DOT ABOVE
		• Pashto
069B	ڌ	ARABIC LETTER SEEN WITH THREE DOTS BELOW
		• early Persian
069C	ڌ	ARABIC LETTER SEEN WITH THREE DOTS BELOW AND THREE DOTS ABOVE
		• Moroccan Arabic
069D	ڌ	ARABIC LETTER SAD WITH TWO DOTS BELOW
		• Turkic
069E	ڌ	ARABIC LETTER SAD WITH THREE DOTS ABOVE
		• Berber, Burushaski
069F	ڌ	ARABIC LETTER TAH WITH THREE DOTS ABOVE
		• old Hausa
06A0	ڌ	ARABIC LETTER AIN WITH THREE DOTS ABOVE
		• old Malay
06A1	ڌ	ARABIC LETTER DOTLESS FEH
		• Adighe
06A2	ڌ	ARABIC LETTER FEH WITH DOT MOVED BELOW
		• Maghrib Arabic
06A3	ڌ	ARABIC LETTER FEH WITH DOT BELOW
		• Ingush
06A4	ڌ	ARABIC LETTER VEYH
		• Middle Eastern Arabic for foreign words
		• Kurdish, Khwarazmian, early Persian
06A5	ڌ	ARABIC LETTER FEH WITH THREE DOTS BELOW
		• North African Arabic for foreign words
06A6	ڌ	ARABIC LETTER PEHEH
		• Sindhi

06A7	ق	ARABIC LETTER QAF WITH DOT ABOVE	• Maghrib Arabic
06A8	ث	ARABIC LETTER QAF WITH THREE DOTS ABOVE	• Tunisian Arabic
06A9	ڪ	ARABIC LETTER KEHEH	• Persian, Urdu, ...
06AA	ڪ	ARABIC LETTER SWASH KAF	
06AB	ڪ	ARABIC LETTER KAF WITH RING	• Pashto • may appear like an Arabic KAF (0643 ك) with a ring below the base
06AC	ك	ARABIC LETTER KAF WITH DOT ABOVE	• old Malay
06AD	ڱ	ARABIC LETTER NG	• Uighur, Kazakh, old Malay, early Persian, ...
06AE	ك	ARABIC LETTER KAF WITH THREE DOTS BELOW	• Berber, early Persian
06AF	گ	ARABIC LETTER GAF	• Persian, Urdu, ...
06B0	گ	ARABIC LETTER GAF WITH RING	• Lahnda
06B1	گ	ARABIC LETTER NGOEH	• Sindhi
06B2	گ	ARABIC LETTER GAF WITH TWO DOTS BELOW	• not used in Sindhi
06B3	گ	ARABIC LETTER GUEH	• Sindhi
06B4	گ	ARABIC LETTER GAF WITH THREE DOTS ABOVE	• not used in Sindhi
06B5	ل	ARABIC LETTER LAM WITH SMALL V	• Kurdish
06B6	ل	ARABIC LETTER LAM WITH DOT ABOVE	• Kurdish
06B7	ل	ARABIC LETTER LAM WITH THREE DOTS ABOVE	• Kurdish
06B8	ل	ARABIC LETTER LAM WITH THREE DOTS BELOW	
06B9	ن	ARABIC LETTER NOON WITH DOT BELOW	
06BA	ن	ARABIC LETTER NOON GHUNNA	• Urdu
06BB	ن	ARABIC LETTER RNOON	• Sindhi
06BC	ن	ARABIC LETTER NOON WITH RING	• Pashto
06BD	ن	ARABIC LETTER NOON WITH THREE DOTS ABOVE	• old Malay
06BE	ه	ARABIC LETTER HEH DOACHASHMEE	• Urdu • forms aspirate digraphs
06BF	ح	ARABIC LETTER TCHEH WITH DOT ABOVE	
06C0	ه	ARABIC LETTER HEH WITH YEH ABOVE	= arabic letter hamzah on ha (1.0) = izafet • Urdu • actually a ligature, not an independent letter ≡ 06D5 • 0654 ه
06C1	ه	ARABIC LETTER HEH GOAL	• Urdu

06C2	ه	ARABIC LETTER HEH GOAL WITH HAMZA ABOVE	• Urdu • actually a ligature, not an independent letter ≡ 06C1 • 0654 ه
06C3	ه	ARABIC LETTER TEH MARBUTA GOAL	• Urdu
06C4	و	ARABIC LETTER WAW WITH RING	• Kashmiri
06C5	و	ARABIC LETTER KIRGHIZ OE	• Kirghiz
06C6	و	ARABIC LETTER OE	• Uighur, Kurdish, Kazakh, Azerbaijani
06C7	و	ARABIC LETTER U	• Kirghiz, Azerbaijani
06C8	و	ARABIC LETTER YU	• Uighur
06C9	و	ARABIC LETTER KIRGHIZ YU	• Kazakh, Kirghiz
06CA	و	ARABIC LETTER WAW WITH TWO DOTS ABOVE	• Kurdish
06CB	و	ARABIC LETTER VE	• Uighur, Kazakh
06CC	ی	ARABIC LETTER FARSI YEH	• Arabic, Persian, Urdu, ... • initial and medial forms of this letter have dots → 0649 ی arabic letter alef maksura → 064A ی arabic letter yeh
06CD	ی	ARABIC LETTER YEH WITH TAIL	• Pashto, Sindhi
06CE	ی	ARABIC LETTER YEH WITH SMALL V	• Kurdish
06CF	و	ARABIC LETTER WAW WITH DOT ABOVE	
06D0	ی	ARABIC LETTER E	• Pashto, Uighur • used as the letter bbeh in Sindhi
06D1	ی	ARABIC LETTER YEH WITH THREE DOTS BELOW	• old Malay
06D2	ه	ARABIC LETTER YEH BARREE	• Urdu
06D3	ه	ARABIC LETTER YEH BARREE WITH HAMZA ABOVE	• Urdu • actually a ligature, not an independent letter ≡ 06D2 ه 0654 ه

**Punctuation**

06D4	-	ARABIC FULL STOP	• Urdu
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**Extended Arabic letter**

06D5	•	ARABIC LETTER AE	• Uighur, Kazakh, Kirghiz
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**Koranic annotation signs**

06D6	ه	ARABIC SMALL HIGH LIGATURE SAD WITH LAM WITH ALEF MAKSURA	
06D7	ه	ARABIC SMALL HIGH LIGATURE QAF WITH LAM WITH ALEF MAKSURA	
06D8	ه	ARABIC SMALL HIGH MEEM INITIAL FORM	
06D9	ه	ARABIC SMALL HIGH LAM ALEF	



## 06DA

## Arabic

## 06FF

06DA	◌ْ	ARABIC SMALL HIGH JEEM
06DB	◌◌◌	ARABIC SMALL HIGH THREE DOTS
06DC	◌◌◌	ARABIC SMALL HIGH SEEN
06DD	◌◌◌◌◌	ARABIC END OF AYAH
06DE	◌◌◌◌◌◌◌	ARABIC START OF RUB EL HIZB
06DF	◌◌◌	ARABIC SMALL HIGH ROUNDED ZERO <ul style="list-style-type: none"> <li>• smaller than the typical circular shape used for 0652 ◌◌◌</li> </ul>
06E0	◌◌◌◌◌◌◌◌◌◌◌	ARABIC SMALL HIGH UPRIGHT RECTANGULAR ZERO
06E1	◌◌◌◌◌◌◌◌◌◌◌	ARABIC SMALL HIGH DOTLESS HEAD OF KHAH = Arabic jazm <ul style="list-style-type: none"> <li>• presentation form of 0652 ◌◌◌, using font technology to select the variant is preferred</li> <li>• used in some Korans to mark absence of a vowel</li> </ul> → 0652 ◌◌◌ arabic sukun
06E2	◌◌◌◌◌◌◌◌◌◌◌	ARABIC SMALL HIGH MEEM ISOLATED FORM
06E3	◌◌◌◌◌◌◌◌◌◌◌	ARABIC SMALL LOW SEEN
06E4	◌◌◌◌◌◌◌◌◌◌◌	ARABIC SMALL HIGH MADDA
06E5	◌◌◌◌◌◌◌◌◌◌◌	ARABIC SMALL WAW
06E6	◌◌◌◌◌◌◌◌◌◌◌	ARABIC SMALL YEH
06E7	◌◌◌◌◌◌◌◌◌◌◌	ARABIC SMALL HIGH YEH
06E8	◌◌◌◌◌◌◌◌◌◌◌	ARABIC SMALL HIGH NOON
06E9	◌◌◌◌◌◌◌◌◌◌◌	ARABIC PLACE OF SAJDAH <ul style="list-style-type: none"> <li>• there is a range of acceptable glyphs for this character</li> </ul>
06EA	◌◌◌◌◌◌◌◌◌◌◌	ARABIC EMPTY CENTRE LOW STOP
06EB	◌◌◌◌◌◌◌◌◌◌◌	ARABIC EMPTY CENTRE HIGH STOP
06EC	◌◌◌◌◌◌◌◌◌◌◌	ARABIC ROUNDED HIGH STOP WITH FILLED CENTRE
06ED	◌◌◌◌◌◌◌◌◌◌◌	ARABIC SMALL LOW MEEM

**Extended Arabic letters for Parkari**

06EE	◌◌◌◌◌◌◌◌◌◌◌	ARABIC LETTER DAL WITH INVERTED V
06EF	◌◌◌◌◌◌◌◌◌◌◌	ARABIC LETTER REH WITH INVERTED V <ul style="list-style-type: none"> <li>• also used in early Persian</li> </ul>

**Eastern Arabic-Indic digits**

*These digits are used with Arabic-script languages of Iran, Pakistan, and India (Persian, Sindhi, Urdu, etc.). For details of variations in preferred glyphs, see the block description for the Arabic script.*

06F0	◌◌◌◌◌◌◌◌◌◌◌	EXTENDED ARABIC-INDIC DIGIT ZERO
06F1	◌◌◌◌◌◌◌◌◌◌◌	EXTENDED ARABIC-INDIC DIGIT ONE
06F2	◌◌◌◌◌◌◌◌◌◌◌	EXTENDED ARABIC-INDIC DIGIT TWO
06F3	◌◌◌◌◌◌◌◌◌◌◌	EXTENDED ARABIC-INDIC DIGIT THREE
06F4	◌◌◌◌◌◌◌◌◌◌◌	EXTENDED ARABIC-INDIC DIGIT FOUR <ul style="list-style-type: none"> <li>• Persian has a different glyph than Sindhi and Urdu</li> </ul>
06F5	◌◌◌◌◌◌◌◌◌◌◌	EXTENDED ARABIC-INDIC DIGIT FIVE <ul style="list-style-type: none"> <li>• Persian, Sindhi, and Urdu share glyph different from Arabic</li> </ul>
06F6	◌◌◌◌◌◌◌◌◌◌◌	EXTENDED ARABIC-INDIC DIGIT SIX <ul style="list-style-type: none"> <li>• Persian, Sindhi, and Urdu have glyphs different from Arabic</li> </ul>
06F7	◌◌◌◌◌◌◌◌◌◌◌	EXTENDED ARABIC-INDIC DIGIT SEVEN <ul style="list-style-type: none"> <li>• Urdu and Sindhi have glyphs different from Arabic</li> </ul>
06F8	◌◌◌◌◌◌◌◌◌◌◌	EXTENDED ARABIC-INDIC DIGIT EIGHT
06F9	◌◌◌◌◌◌◌◌◌◌◌	EXTENDED ARABIC-INDIC DIGIT NINE

**Extended Arabic letters**

















































































06FA	◌◌◌◌◌◌◌◌◌◌◌	ARABIC LETTER SHEEN WITH DOT BELOW
06FB	◌◌◌◌◌◌◌◌◌◌◌	ARABIC LETTER DAD WITH DOT BELOW
06FC	◌◌◌◌◌◌◌◌◌◌◌	ARABIC LETTER GHAIN WITH DOT BELOW

**Signs for Sindhi**

06FD	◌◌◌◌◌◌◌◌◌◌◌	ARABIC SIGN SINDHI AMPERSAND
06FE	◌◌◌◌◌◌◌◌◌◌◌	ARABIC SIGN SINDHI POSTPOSITION MEN

**Extended Arabic letter for Parkari**

06FF	◌◌◌◌◌◌◌◌◌◌◌	ARABIC LETTER HEH WITH INVERTED V
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	070	071	072	073	074
0	 0700	 0710	 0720	 0730	 0740
1	 0701	 0711	 0721	 0731	 0741
2	 0702	 0712	 0722	 0732	 0742
3	 0703	 0713	 0723	 0733	 0743
4	 0704	 0714	 0724	 0734	 0744
5	 0705	 0715	 0725	 0735	 0745
6	 0706	 0716	 0726	 0736	 0746
7	 0707	 0717	 0727	 0737	 0747
8	 0708	 0718	 0728	 0738	 0748
9	 0709	 0719	 0729	 0739	 0749
A	 070A	 071A	 072A	 073A	 074A
B	 070B	 071B	 072B	 073B	
C	 070C	 071C	 072C	 073C	
D	 070D	 071D	 072D	 073D	 074D
E		 071E	 072E	 073E	 074E
F	 070F	 071F	 072F	 073F	 074F

0700


Syriac

0745

**Syriac punctuation and signs**

- 0700 ❖ SYRIAC END OF PARAGRAPH  
• marks the end of a paragraph
- 0701 · SYRIAC SUPRALINEAR FULL STOP  
• marks interrogations, imperatives, and pauses, especially in Biblical texts
- 0702 . SYRIAC SUBLINEAR FULL STOP  
• marks subordinate clauses and minor pauses, especially in Biblical texts
- 0703 : SYRIAC SUPRALINEAR COLON  
• marks expressions of wonder and has a distinct pausal value in Biblical texts
- 0704 : SYRIAC SUBLINEAR COLON  
• used at the end of verses of supplications
- 0705 - SYRIAC HORIZONTAL COLON  
• joins two words closely together in a context to which a rising tone is suitable
- 0706 . SYRIAC COLON SKEWED LEFT  
• marks a dependent clause
- 0707 . SYRIAC COLON SKEWED RIGHT  
• marks the end of a subdivision of the apodosis, or latter part of a Biblical verse
- 0708 . SYRIAC SUPRALINEAR COLON SKEWED LEFT  
• marks a minor phrase division
- 0709 . SYRIAC SUBLINEAR COLON SKEWED RIGHT  
• marks the end of a real or rhetorical question
- 070A ⁂ SYRIAC CONTRACTION  
• a contraction mark, mostly used in East Syriac  
• placed at the end of an incomplete word
- 070B − SYRIAC HARKLEAN OBELUS  
• marks the beginning of a phrase, word, or morpheme that has a marginal note
- 070C \ SYRIAC HARKLEAN METOBELUS  
• marks the end of a section with a marginal note
- 070D + SYRIAC HARKLEAN ASTERISCUS  
• marks the beginning of a phrase, word, or morpheme that has a marginal note

**Syriac format control character**

- 070F  SYRIAC ABBREVIATION MARK  
= SAM  
• marks the beginning of a Syriac abbreviation

**Syriac letters**

- 0710 ܐ SYRIAC LETTER ALAPH
- 0711 ܐ̇ SYRIAC LETTER SUPERSCRIFT ALAPH  
• used in East Syriac texts to indicate an etymological Alaph
- 0712 ܒ SYRIAC LETTER BETH
- 0713 ܓ SYRIAC LETTER GAMAL
- 0714 ܓ̈ SYRIAC LETTER GAMAL GARSHUNI  
• used in Garshuni documents
- 0715 ܕ SYRIAC LETTER DALATH
- 0716 ܕ̈ SYRIAC LETTER DOTLESS DALATH RISH  
• ambiguous form for undifferentiated early dalath/rish
- 0717 ܥ SYRIAC LETTER HE
- 0718 ܦ SYRIAC LETTER WAW
- 0719 ܨ SYRIAC LETTER ZAIN
- 071A ܥ̈ SYRIAC LETTER HETH
- 071B ܬ SYRIAC LETTER TETH

- 071C ܬ̈ SYRIAC LETTER TETH GARSHUNI  
• used in Garshuni documents
- 071D ܫ SYRIAC LETTER YUDH
- 071E ܫ̈ SYRIAC LETTER YUDH HE  
• mostly used in East Syriac texts
- 071F ܫ̈ SYRIAC LETTER KAPH
- 0720 ܠ SYRIAC LETTER LAMADH
- 0721 ܡ SYRIAC LETTER MIM
- 0722 ܢ SYRIAC LETTER NUN
- 0723 ܢ̈ SYRIAC LETTER SEMKATH
- 0724 ܢ̈ SYRIAC LETTER FINAL SEMKATH
- 0725 ܐ̈ SYRIAC LETTER E
- 0726 ܐ̈ SYRIAC LETTER PE
- 0727 ܐ̈ SYRIAC LETTER REVERSED PE  
• used in Christian Palestinian Aramaic
- 0728 ܥ̈ SYRIAC LETTER SADHE
- 0729 ܩ SYRIAC LETTER QAPH
- 072A ܩ̈ SYRIAC LETTER RISH
- 072B ܩ̈ SYRIAC LETTER SHIN
- 072C ܬ̈ SYRIAC LETTER TAW

**Persian letters**

- 072D ܬ̈ SYRIAC LETTER PERSIAN BHETH
- 072E ܬ̈ SYRIAC LETTER PERSIAN GHAMAL
- 072F ܬ̈ SYRIAC LETTER PERSIAN DHALATH

**Syriac points (vowels)**

- 0730 ܐ̇ SYRIAC PTHAHA ABOVE
- 0731 ܐ̇ SYRIAC PTHAHA BELOW
- 0732 ܐ̇̈ SYRIAC PTHAHA DOTTED
- 0733 ܐ̇̈ SYRIAC ZQAPHA ABOVE
- 0734 ܐ̇̈ SYRIAC ZQAPHA BELOW
- 0735 ܐ̇̈ SYRIAC ZQAPHA DOTTED
- 0736 ܐ̇̈ SYRIAC RBASA ABOVE
- 0737 ܐ̇̈ SYRIAC RBASA BELOW
- 0738 ܐ̇̈ SYRIAC DOTTED ZLAMA HORIZONTAL
- 0739 ܐ̇̈ SYRIAC DOTTED ZLAMA ANGULAR
- 073A ܐ̇̈ SYRIAC HBASA ABOVE
- 073B ܐ̇̈ SYRIAC HBASA BELOW
- 073C ܐ̇̈ SYRIAC HBASA-ESASA DOTTED
- 073D ܐ̇̈ SYRIAC ESASA ABOVE
- 073E ܐ̇̈ SYRIAC ESASA BELOW
- 073F ܐ̇̈ SYRIAC RWAHA

**Syriac marks**

- 0740 ܐ̇̈ SYRIAC FEMININE DOT  
• feminine marker used with the Taw feminine suffix
- 0741 ܐ̇̈ SYRIAC QUSHSHAYA  
• indicates a plosive pronunciation
- 0742 ܐ̇̈ SYRIAC RUKKAKHA  
• indicates an aspirated (spirantized) pronunciation
- 0743 ܐ̇̈ SYRIAC TWO VERTICAL DOTS ABOVE  
• accent mark used in ancient manuscripts
- 0744 ܐ̇̈ SYRIAC TWO VERTICAL DOTS BELOW  
• accent mark used in ancient manuscripts
- 0745 ܐ̇̈ SYRIAC THREE DOTS ABOVE  
• diacritic used in Turoyo for letters not found in Syriac

- 0746    ܐ    SYRIAC THREE DOTS BELOW  
              • diacritic used in Turoyo for letters not found in Syriac
- 0747    ܐ    SYRIAC OBLIQUE LINE ABOVE  
              • indication of a silent letter
- 0748    ܐ    SYRIAC OBLIQUE LINE BELOW  
              • indication of a silent letter  
              • also used to indicate numbers multiplied by a certain constant
- 0749    ܐ    SYRIAC MUSIC  
              • a music mark  
              • also used in the Syrian Orthodox Anaphora book to mark the breaking of the Eucharist bread
- 074A    ܐ    SYRIAC BARREKH  
              • a diacritic cross used in liturgical texts

**Sogdian letters**

- 074D    𐭣    SYRIAC LETTER SOGDIAN ZHAIN
- 074E    𐭣    SYRIAC LETTER SOGDIAN KHAPH
- 074F    𐭣    SYRIAC LETTER SOGDIAN FE

	075	076	077
0	پ 0750	ف 0760	ٹ 0770
1	ب 0751	پ 0761	ڑ 0771
2	پ 0752	ک 0762	ح 0772
3	پ 0753	گ 0763	آ 0773
4	پ 0754	ک 0764	آ 0774
5	ب 0755	م 0765	ی 0775
6	ب 0756	م 0766	ی 0776
7	خ 0757	ن 0767	ی 0777
8	چ 0758	ن 0768	و 0778
9	ڈ 0759	ن 0769	و 0779
A	د 075A	ل 076A	ے 077A
B	ر 075B	ز 076B	ے 077B
C	ش 075C	ر 076C	ج 077C
D	غ 075D	ش 076D	س 077D
E	غ 075E	ح 076E	س 077E
F	غ 075F	چ 076F	ل 077F

**Extended Arabic letters**

*These are primarily used in Arabic-script orthographies of African languages.*

0750	ب	ARABIC LETTER BEH WITH THREE DOTS HORIZONTALLY BELOW
0751	بٓ	ARABIC LETTER BEH WITH DOT BELOW AND THREE DOTS ABOVE
0752	پ	ARABIC LETTER BEH WITH THREE DOTS POINTING UPWARDS BELOW
0753	پٓ	ARABIC LETTER BEH WITH THREE DOTS POINTING UPWARDS BELOW AND TWO DOTS ABOVE
0754	بٔ	ARABIC LETTER BEH WITH TWO DOTS BELOW AND DOT ABOVE
0755	بٖ	ARABIC LETTER BEH WITH INVERTED SMALL V BELOW
0756	ت	ARABIC LETTER BEH WITH SMALL V
0757	ح	ARABIC LETTER HAH WITH TWO DOTS ABOVE
0758	حٓ	ARABIC LETTER HAH WITH THREE DOTS POINTING UPWARDS BELOW
0759	ڌ	ARABIC LETTER DAL WITH TWO DOTS VERTICALLY BELOW AND SMALL TAH • Saraiki
075A	ڊ	ARABIC LETTER DAL WITH INVERTED SMALL V BELOW
075B	ر	ARABIC LETTER REH WITH STROKE
075C	ش	ARABIC LETTER SEEN WITH FOUR DOTS ABOVE • Shina
075D	ع	ARABIC LETTER AIN WITH TWO DOTS ABOVE
075E	عٓ	ARABIC LETTER AIN WITH THREE DOTS POINTING DOWNWARDS ABOVE
075F	عٔ	ARABIC LETTER AIN WITH TWO DOTS VERTICALLY ABOVE
0760	ف	ARABIC LETTER FEH WITH TWO DOTS BELOW
0761	فٓ	ARABIC LETTER FEH WITH THREE DOTS POINTING UPWARDS BELOW
0762	ك	ARABIC LETTER KEHEH WITH DOT ABOVE • old Malay, preferred to 06AC كٔ → 06AC كٓ arabic letter kaf with dot above
0763	كٓ	ARABIC LETTER KEHEH WITH THREE DOTS ABOVE • Moroccan Arabic, Amazigh, Burushaski → 06AD كٔ arabic letter ng
0764	كٔ	ARABIC LETTER KEHEH WITH THREE DOTS POINTING UPWARDS BELOW
0765	م	ARABIC LETTER MEEM WITH DOT ABOVE
0766	مٓ	ARABIC LETTER MEEM WITH DOT BELOW • Maba
0767	ن	ARABIC LETTER NOON WITH TWO DOTS BELOW • Arwi
0768	نٓ	ARABIC LETTER NOON WITH SMALL TAH • Saraiki, Pathwari
0769	نٔ	ARABIC LETTER NOON WITH SMALL V • Gojri
076A	ل	ARABIC LETTER LAM WITH BAR
076B	رٓ	ARABIC LETTER REH WITH TWO DOTS VERTICALLY ABOVE • Torwali, Ormuri
076C	رٔ	ARABIC LETTER REH WITH HAMZA ABOVE • Ormuri

076D	شٓ	ARABIC LETTER SEEN WITH TWO DOTS VERTICALLY ABOVE • Kalami, Ormuri
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**Additions for Khowar**

076E	ح	ARABIC LETTER HAH WITH SMALL ARABIC LETTER TAH BELOW
076F	حٓ	ARABIC LETTER HAH WITH SMALL ARABIC LETTER TAH AND TWO DOTS
0770	شٔ	ARABIC LETTER SEEN WITH SMALL ARABIC LETTER TAH AND TWO DOTS
0771	رٔ	ARABIC LETTER REH WITH SMALL ARABIC LETTER TAH AND TWO DOTS

**Addition for Torwali**



















































0772	ح	ARABIC LETTER HAH WITH SMALL ARABIC LETTER TAH ABOVE
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**Additions for Burushaski**

0773	ا	ARABIC LETTER ALEF WITH EXTENDED ARABIC-INDIC DIGIT TWO ABOVE
0774	آ	ARABIC LETTER ALEF WITH EXTENDED ARABIC-INDIC DIGIT THREE ABOVE
0775	ي	ARABIC LETTER FARSI YEH WITH EXTENDED ARABIC-INDIC DIGIT TWO ABOVE
0776	يٓ	ARABIC LETTER FARSI YEH WITH EXTENDED ARABIC-INDIC DIGIT THREE ABOVE
0777	ئ	ARABIC LETTER FARSI YEH WITH EXTENDED ARABIC-INDIC DIGIT FOUR BELOW
0778	و	ARABIC LETTER WAW WITH EXTENDED ARABIC-INDIC DIGIT TWO ABOVE
0779	وٓ	ARABIC LETTER WAW WITH EXTENDED ARABIC-INDIC DIGIT THREE ABOVE
077A	هٓ	ARABIC LETTER YEH BARREE WITH EXTENDED ARABIC-INDIC DIGIT TWO ABOVE
077B	هٔ	ARABIC LETTER YEH BARREE WITH EXTENDED ARABIC-INDIC DIGIT THREE ABOVE
077C	ح	ARABIC LETTER HAH WITH EXTENDED ARABIC-INDIC DIGIT FOUR BELOW
077D	شٔ	ARABIC LETTER SEEN WITH EXTENDED ARABIC-INDIC DIGIT FOUR ABOVE

**Additions for early Persian**

077E	شٓ	ARABIC LETTER SEEN WITH INVERTED V
077F	كٓ	ARABIC LETTER KAF WITH TWO DOTS ABOVE

	078	079	07A	07B
0	 0780	 0790	 07A0	 07B0
1	 0781	 0791	 07A1	 07B1
2	 0782	 0792	 07A2	
3	 0783	 0793	 07A3	
4	 0784	 0794	 07A4	
5	 0785	 0795	 07A5	
6	 0786	 0796	 07A6	
7	 0787	 0797	 07A7	
8	 0788	 0798	 07A8	
9	 0789	 0799	 07A9	
A	 078A	 079A	 07AA	
B	 078B	 079B	 07AB	
C	 078C	 079C	 07AC	
D	 078D	 079D	 07AD	
E	 078E	 079E	 07AE	
F	 078F	 079F	 07AF	

**Basic consonants**

0780	✓	THAANA LETTER HAA
0781	✓	THAANA LETTER SHAVIYANI
0782	✓	THAANA LETTER NOONU
0783	✓	THAANA LETTER RAA
0784	✓	THAANA LETTER BAA
0785	✓	THAANA LETTER LHAVIYANI
0786	✓	THAANA LETTER KAAFU
0787	✓	THAANA LETTER ALIFU
0788	✓	THAANA LETTER VAAVU
0789	✓	THAANA LETTER MEEMU
078A	✓	THAANA LETTER FAFU
078B	✓	THAANA LETTER DHAALU
078C	✓	THAANA LETTER THAA
078D	✓	THAANA LETTER LAAMU
078E	✓	THAANA LETTER GAAFU
078F	✓	THAANA LETTER GNAVIYANI
0790	✓	THAANA LETTER SEENU
0791	✓	THAANA LETTER DAVIYANI
0792	✓	THAANA LETTER ZAVIYANI
0793	✓	THAANA LETTER TAVIYANI
0794	✓	THAANA LETTER YAA
0795	✓	THAANA LETTER PAVIYANI
0796	✓	THAANA LETTER JAVIYANI
0797	✓	THAANA LETTER CHAVIYANI

**Extensions for Arabic**
































































0798	✓	THAANA LETTER TTAA
0799	✓	THAANA LETTER HHAA
079A	✓	THAANA LETTER KHAA
079B	✓	THAANA LETTER THAALU
079C	✓	THAANA LETTER ZAA
079D	✓	THAANA LETTER SHEENU
079E	✓	THAANA LETTER SAADHU
079F	✓	THAANA LETTER DAADHU
07A0	✓	THAANA LETTER TO
07A1	✓	THAANA LETTER ZO
07A2	✓	THAANA LETTER AINU
07A3	✓	THAANA LETTER GHAINU
07A4	✓	THAANA LETTER QAAFU
07A5	✓	THAANA LETTER WAAVU

**Vowels**

07A6	✓	THAANA ABAFILI
07A7	✓	THAANA ABAAFILI
07A8	✓	THAANA IBIFILI
07A9	✓	THAANA EEBEFILI
07AA	✓	THAANA UBUFILI
07AB	✓	THAANA OBOOFILI
07AC	✓	THAANA EBEFILI
07AD	✓	THAANA EYBEYFILI
07AE	✓	THAANA OBOFILI
07AF	✓	THAANA OABOAFILI
07B0	✓	THAANA SUKUN

**Consonant for Addu dialect**

07B1	✓	THAANA LETTER NAA
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	07C	07D	07E	07F
0	 07C0	 07D0	 07E0	 07F0
1	 07C1	 07D1	 07E1	 07F1
2	 07C2	 07D2	 07E2	 07F2
3	 07C3	 07D3	 07E3	 07F3
4	 07C4	 07D4	 07E4	 07F4
5	 07C5	 07D5	 07E5	 07F5
6	 07C6	 07D6	 07E6	 07F6
7	 07C7	 07D7	 07E7	 07F7
8	 07C8	 07D8	 07E8	 07F8
9	 07C9	 07D9	 07E9	 07F9
A	 07CA	 07DA	 07EA	 07FA
B	 07CB	 07DB	 07EB	 07FB
C	 07CC	 07DC	 07EC	 07FC
D	 07CD	 07DD	 07ED	 07FD
E	 07CE	 07DE	 07EE	 07FE
F	 07CF	 07DF	 07EF	 07FF



## 07C0

**Digits**

07C0	0	NKO DIGIT ZERO
07C1	1	NKO DIGIT ONE
07C2	2	NKO DIGIT TWO
07C3	3	NKO DIGIT THREE
07C4	4	NKO DIGIT FOUR
07C5	5	NKO DIGIT FIVE
07C6	6	NKO DIGIT SIX
07C7	7	NKO DIGIT SEVEN
07C8	8	NKO DIGIT EIGHT
07C9	9	NKO DIGIT NINE

**Letters**

07CA	A	NKO LETTER A
07CB	B	NKO LETTER EE
07CC	C	NKO LETTER I
07CD	E	NKO LETTER E
07CE	U	NKO LETTER U
07CF	OO	NKO LETTER OO
07D0	O	NKO LETTER O
07D1	DAGBASINNA	NKO LETTER DAGBASINNA
07D2	N	NKO LETTER N
07D3	F	NKO LETTER BA
07D4	PA	NKO LETTER PA
07D5	TA	NKO LETTER TA
07D6	JA	NKO LETTER JA
07D7	CHA	NKO LETTER CHA
07D8	DA	NKO LETTER DA
07D9	RA	NKO LETTER RA
07DA	RAA	NKO LETTER RRA
07DB	SA	NKO LETTER SA
07DC	GBA	NKO LETTER GBA
07DD	FA	NKO LETTER FA
07DE	KA	NKO LETTER KA
07DF	LA	NKO LETTER LA
07E0	WOLOSO	NKO LETTER NA WOLOSO
07E1	MA	NKO LETTER MA
07E2	NYA	NKO LETTER NYA
07E3	NA	NKO LETTER NA
07E4	HA	NKO LETTER HA
07E5	WA	NKO LETTER WA
07E6	YA	NKO LETTER YA
07E7	WOLOSO	NKO LETTER NYA WOLOSO

**Archaic letters**

07E8	JONA JA	NKO LETTER JONA JA
07E9	JONA CHA	NKO LETTER JONA CHA
07EA	JONA RA	NKO LETTER JONA RA
	→ 07D9 † nko letter ra	

**Tone marks**

07EB	◌̄	NKO COMBINING SHORT HIGH TONE → 0304 ◌̄ combining macron
07EC	◌̃	NKO COMBINING SHORT LOW TONE → 0303 ◌̃ combining tilde
07ED	◌̇	NKO COMBINING SHORT RISING TONE → 0307 ◌̇ combining dot above
07EE	◌̈́	NKO COMBINING LONG DESCENDING TONE → 0302 ◌̈́ combining circumflex accent
07EF	◌̊	NKO COMBINING LONG HIGH TONE

## NKo

07F0	◌̎	NKO COMBINING LONG LOW TONE
07F1	◌̌	NKO COMBINING LONG RISING TONE
07F2	◌̍	NKO COMBINING NASALIZATION MARK → 0323 ◌̍ combining dot below
07F3	◌̈́	NKO COMBINING DOUBLE DOT ABOVE → 0308 ◌̈́ combining diaeresis
07F4	’	NKO HIGH TONE APOSTROPHE → 02BC ’ modifier letter apostrophe
07F5	‘	NKO LOW TONE APOSTROPHE → 02BB ‘ modifier letter turned comma

**Symbol**

07F6	2	NKO SYMBOL OO DENNEN
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
































**Punctuation**

07F7	GBAKURUNEN	NKO SYMBOL GBAKURUNEN
07F8	,	NKO COMMA
07F9	!	NKO EXCLAMATION MARK

**Letter extender**

07FA	_	NKO LAJANYALAN → 005F _ low line → 0640 - arabic tatweel
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## 07FA

	080	081	082	083
0	 0800	 0810	 0820	 0830
1	 0801	 0811	 0821	 0831
2	 0802	 0812	 0822	 0832
3	 0803	 0813	 0823	 0833
4	 0804	 0814	 0824	 0834
5	 0805	 0815	 0825	 0835
6	 0806	 0816	 0826	 0836
7	 0807	 0817	 0827	 0837
8	 0808	 0818	 0828	 0838
9	 0809	 0819	 0829	 0839
A	 080A	 081A	 082A	 083A
B	 080B	 081B	 082B	 083B
C	 080C	 081C	 082C	 083C
D	 080D	 081D	 082D	 083D
E	 080E	 081E	 082E	 083E
F	 080F	 081F	 082F	 083F

0800

Samaritan

083E

**Letters**

0800	𐤀	SAMARITAN LETTER ALAF
0801	𐤁	SAMARITAN LETTER BIT
0802	𐤂	SAMARITAN LETTER GAMAN
0803	𐤃	SAMARITAN LETTER DALAT
0804	𐤄	SAMARITAN LETTER IY
0805	𐤅	SAMARITAN LETTER BAA
0806	𐤆	SAMARITAN LETTER ZEN
0807	𐤇	SAMARITAN LETTER IT
0808	𐤈	SAMARITAN LETTER TIT
0809	𐤉	SAMARITAN LETTER YUT
080A	𐤊	SAMARITAN LETTER KAAF
080B	𐤋	SAMARITAN LETTER LABAT
080C	𐤌	SAMARITAN LETTER MIM
080D	𐤍	SAMARITAN LETTER NUN
080E	𐤎	SAMARITAN LETTER SINGAAT
080F	𐤏	SAMARITAN LETTER IN
0810	𐤐	SAMARITAN LETTER FI
0811	𐤑	SAMARITAN LETTER TSAADIY
0812	𐤒	SAMARITAN LETTER QUF
0813	𐤓	SAMARITAN LETTER RISH
0814	𐤔	SAMARITAN LETTER SHAN
0815	𐤕	SAMARITAN LETTER TAAF

**Consonant modifiers**

0816	𐤖	SAMARITAN MARK IN
0817	𐤗	SAMARITAN MARK IN-ALAF
0818	𐤘	SAMARITAN MARK DAGESH
0819	𐤙	SAMARITAN MARK OCCLUSION
081A	𐤚	SAMARITAN MODIFIER LETTER EPENTHETIC YUT
081B	𐤛	SAMARITAN MARK EPENTHETIC YUT

**Vowel signs**

081C	𐤜	SAMARITAN VOWEL SIGN LONG E = fatha al-nida
081D	𐤝	SAMARITAN VOWEL SIGN E
081E	𐤞	SAMARITAN VOWEL SIGN OVERLONG AA = fatha al-ima
081F	𐤟	SAMARITAN VOWEL SIGN LONG AA
0820	𐤠	SAMARITAN VOWEL SIGN AA
0821	𐤡	SAMARITAN VOWEL SIGN OVERLONG A = fatha al-iha
0822	𐤢	SAMARITAN VOWEL SIGN LONG A
0823	𐤣	SAMARITAN VOWEL SIGN A
0824	𐤤	SAMARITAN MODIFIER LETTER SHORT A
0825	𐤥	SAMARITAN VOWEL SIGN SHORT A = fatha
0826	𐤦	SAMARITAN VOWEL SIGN LONG U = damma
0827	𐤧	SAMARITAN VOWEL SIGN U
0828	𐤨	SAMARITAN MODIFIER LETTER I
0829	𐤩	SAMARITAN VOWEL SIGN LONG I = kasra
082A	𐤪	SAMARITAN VOWEL SIGN I
082B	𐤫	SAMARITAN VOWEL SIGN O
082C	𐤬	SAMARITAN VOWEL SIGN SUKUN

**Variant reading sign**

082D	𐤭	SAMARITAN MARK NEQUDAA
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**Punctuation**

0830	·	SAMARITAN PUNCTUATION NEQUDAA = word separator
0831	:	SAMARITAN PUNCTUATION AFSAAQ = interruption
0832	¨	SAMARITAN PUNCTUATION ANGED = restraint
0833	☩	SAMARITAN PUNCTUATION BAU = prayer
0834	☩:	SAMARITAN PUNCTUATION ATMAAU = surprise
0835	⋈	SAMARITAN PUNCTUATION SHIYYAALAA = question
0836	𐤠	SAMARITAN ABBREVIATION MARK
0837	—☩	SAMARITAN PUNCTUATION MELODIC QITSA
0838	—·	SAMARITAN PUNCTUATION ZIQAA = shouting
0839	—:	SAMARITAN PUNCTUATION QITSA = end of section
083A	==:	SAMARITAN PUNCTUATION ZAEF = outburst
083B	⋈:	SAMARITAN PUNCTUATION TURU = teaching
083C	/	SAMARITAN PUNCTUATION ARKAANU = submissiveness
083D	⋈	SAMARITAN PUNCTUATION SOF MASHFAAT = full stop
083E	°	SAMARITAN PUNCTUATION ANNAAU = rest

	084	085
0	0840	0850
1	0841	0851
2	0842	0852
3	0843	0853
4	0844	0854
5	0845	0855
6	0846	0856
7	0847	0857
8	0848	0858
9	0849	0859
A	084A	085A
B	084B	085B
C	084C	
D	084D	
E	084E	085E
F	084F	

**Letters**

0840	𐤀	MANDAIC LETTER HALQA = a
0841	𐤁	MANDAIC LETTER AB
0842	𐤂	MANDAIC LETTER AG
0843	𐤃	MANDAIC LETTER AD
0844	𐤄	MANDAIC LETTER AH
0845	𐤅	MANDAIC LETTER USHENNA = u
0846	𐤆	MANDAIC LETTER AZ
0847	𐤇	MANDAIC LETTER IT
0848	𐤈	MANDAIC LETTER ATT
0849	𐤉	MANDAIC LETTER AKSA = i
084A	𐤊	MANDAIC LETTER AK
084B	𐤋	MANDAIC LETTER AL
084C	𐤌	MANDAIC LETTER AM
084D	𐤍	MANDAIC LETTER AN
084E	𐤎	MANDAIC LETTER AS
084F	𐤏	MANDAIC LETTER IN
0850	𐤐	MANDAIC LETTER AP
0851	𐤑	MANDAIC LETTER ASZ
0852	𐤒	MANDAIC LETTER AQ
0853	𐤓	MANDAIC LETTER AR
0854	𐤔	MANDAIC LETTER ASH
0855	𐤕	MANDAIC LETTER AT
0856	𐤖	MANDAIC LETTER DUSHENNA = di
0857	𐤗	MANDAIC LETTER KAD
0858	𐤘	MANDAIC LETTER AIN

**Diacritics**

0859	𐤙	MANDAIC AFFRICATION MARK
085A	𐤚	MANDAIC VOCALIZATION MARK
085B	𐤛	MANDAIC GEMINATION MARK

**Punctuation**

085E	𐤜	MANDAIC PUNCTUATION
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	090	091	092	093	094	095	096	097
0	ं 0900	ऐ 0910	ठ 0920	र 0930	ी 0940	ॐ 0950	ऋ 0960	० 0970
1	ँ 0901	ऑ 0911	ड 0921	ॠ 0931	ु 0941	ं 0951	ॡ 0961	ॱ 0971
2	ं 0902	ओ 0912	ढ 0922	ल 0932	ॡ 0942	ॢ 0952	ॣ 0962	अँ 0972
3	ः 0903	ओ 0913	ण 0923	ळ 0933	ॣ 0943	े 0953	। 0963	
4	ऐ 0904	औ 0914	त 0924	ळ 0934	॥ 0944	े 0954	। 0964	
5	अ 0905	क 0915	थ 0925	व 0935	ँ 0945	ँ 0955	॥ 0965	
6	आ 0906	ख 0916	द 0926	श 0936	े 0946		० 0966	
7	इ 0907	ग 0917	ध 0927	ष 0937	े 0947		१ 0967	
8	ई 0908	घ 0918	न 0928	स 0938	ै 0948	क 0958	२ 0968	
9	उ 0909	ङ 0919	न 0929	ह 0939	ॉ 0949	ख 0959	३ 0969	ज़ 0979
A	ऊ 090A	च 091A	प 092A		ो 094A	ग 095A	४ 096A	ष 097A
B	ऋ 090B	छ 091B	फ 092B		ो 094B	ज 095B	५ 096B	ग 097B
C	ॠ 090C	ज 091C	ब 092C	ॠ 093C	ौ 094C	ड़ 095C	६ 096C	ज़ 097C
D	ँ 090D	झ 091D	भ 092D	ॡ 093D	ॢ 094D	ढ 095D	७ 096D	१ 097D
E	ऐ 090E	ज 091E	म 092E	ा 093E	ि 094E	फ़ 095E	८ 096E	ड 097E
F	ए 090F	ट 091F	य 092F	ि 093F		य 095F	९ 096F	ब 097F

**Various signs**

0900	ँ	DEVANAGARI SIGN INVERTED CANDRABINDU = vaidika adhomukha candrabindu
0901	ं	DEVANAGARI SIGN CANDRABINDU = anunasika → 0310 ँ combining candrabindu
0902	ॠ	DEVANAGARI SIGN ANUSVARA = bindu
0903	ॡ	DEVANAGARI SIGN VISARGA

**Independent vowels**

0904	अ	DEVANAGARI LETTER SHORT A
0905	आ	DEVANAGARI LETTER A
0906	इ	DEVANAGARI LETTER AA
0907	ई	DEVANAGARI LETTER I
0908	उ	DEVANAGARI LETTER II
0909	ऊ	DEVANAGARI LETTER U
090A	ऋ	DEVANAGARI LETTER UU
090B	ॠ	DEVANAGARI LETTER VOCALIC R
090C	ॡ	DEVANAGARI LETTER VOCALIC L
090D	ए	DEVANAGARI LETTER CANDRA E
090E	ऐ	DEVANAGARI LETTER SHORT E • for transcribing Dravidian short e
090F	ऋ	DEVANAGARI LETTER E
0910	ॠ	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 GH
0919	ङ	DEVANAGARI LETTER NG
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
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 NNA • for transcribing Dravidian alveolar n ≡ 0928 न 093C ण
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	ऌ	DEVANAGARI LETTER RRA • for transcribing Dravidian alveolar r • half form is represented as “Eyelash RA” ≡ 0930 र 093C ळ
0932	ल	DEVANAGARI LETTER LA
0933	ळ	DEVANAGARI LETTER LLA
0934	ॢ	DEVANAGARI LETTER LLLA • for transcribing Dravidian l ≡ 0933 ळ 093C ऴ
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**

093C	ॴ	DEVANAGARI SIGN NUKTA • for extending the alphabet to new letters
093D	ॵ	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
0944	ॵ	DEVANAGARI VOWEL SIGN VOCALIC RR
0945	ॶ	DEVANAGARI VOWEL SIGN CANDRA E = candra
0946	ॷ	DEVANAGARI VOWEL SIGN SHORT E • for transcribing Dravidian vowels
0947	ॸ	DEVANAGARI VOWEL SIGN E
0948	ॹ	DEVANAGARI VOWEL SIGN AI
0949	ॺ	DEVANAGARI VOWEL SIGN CANDRA O
094A	ॻ	DEVANAGARI VOWEL SIGN SHORT O • for transcribing Dravidian vowels
094B	ॽ	DEVANAGARI VOWEL SIGN O
094C	ॾ	DEVANAGARI VOWEL SIGN AU

**Virama**

094D	ॿ	DEVANAGARI SIGN VIRAMA = halant (the preferred Hindi name) • suppresses inherent vowel
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**Archaic dependent vowel sign**

094E	॰	DEVANAGARI VOWEL SIGN PRISHTHAMATRA E • character has historic use only • combines with E to form AI, with AA to form O, and with O to form AU
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**Sign**

0950	ॱ	DEVANAGARI OM
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	098	099	09A	09B	09C	09D	09E	09F
0		ঐ 0990	ঊ 09A0	র 09B0	ী 09C0		ঋ 09E0	ষ 09F0
1	ঁ 0981		ড 09A1		ু 09C1		ঋ 09E1	ষ 09F1
2	ং 0982		ঢ 09A2	ল 09B2	ূ 09C2		্র 09E2	় 09F2
3	ঃ 0983	ও 0993	ণ 09A3		্ 09C3		্র 09E3	ট 09F3
4		ঔ 0994	ত 09A4		র্ 09C4			র্ 09F4
5	অ 0985	ক 0995	খ 09A5					ৎ 09F5
6	আ 0986	খ 0996	দ 09A6	শ 09B6			০ 09E6	৳ 09F6
7	ই 0987	গ 0997	ধ 09A7	ষ 09B7	ে 09C7	ী 09D7	১ 09E7	। 09F7
8	ঈ 0988	ঘ 0998	ন 09A8	স 09B8	ৈ 09C8		২ 09E8	৷ 09F8
9	উ 0989	ঙ 0999		হ 09B9			৩ 09E9	০ 09F9
A	ঊ 098A	চ 099A	প 09AA				৪ 09EA	৳ 09FA
B	ঋ 098B	ছ 099B	ফ 09AB		ৌ 09CB		৫ 09EB	৳ 09FB
C	৳ 098C	জ 099C	ব 09AC	় 09BC	ৌ 09CC	ড় 09DC	৬ 09EC	
D		ঝ 099D	ভ 09AD	হ 09BD	্ 09CD	ঢ 09DD	৭ 09ED	
E		ঞ 099E	য 09AE	া 09BE	ৎ 09CE		৮ 09EE	
F	এ 098F	ট 099F	য 09AF	ি 09BF		য় 09DF	৯ 09EF	



0981

**Various signs**

0981	ঁ	BENGALI SIGN CANDRABINDU
0982	ং	BENGALI SIGN ANUSVARA
0983	ঃ	BENGALI SIGN VISARGA

**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	ৡ	<reserved>
098E	ৢ	<reserved>
098F	এ	BENGALI LETTER E
0990	ঐ	BENGALI LETTER AI
0991	ৣ	<reserved>
0992	৤	<reserved>
0993	ও	BENGALI LETTER O
0994	৥	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	১	<reserved>
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	২	<reserved>
09B2	ল	BENGALI LETTER LA
09B3	৩	<reserved>
09B4	৪	<reserved>
09B5	৫	<reserved>
09B6	শ	BENGALI LETTER SHA
09B7	ষ	BENGALI LETTER SSA

Bengali

09E3

09B8	স	BENGALI LETTER SA
09B9	হ	BENGALI LETTER HA

**Various signs**

09BC	০	BENGALI SIGN NUKTA • for extending the alphabet to new letters
09BD	২	BENGALI SIGN AVAGRAHA

**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	ৡ	<reserved>
09C6	ৢ	<reserved>
09C7	ে	BENGALI VOWEL SIGN E • stands to the left of the consonant
09C8	ৈ	BENGALI VOWEL SIGN AI • stands to the left of the consonant

**Two-part dependent vowel signs**

*These vowel signs have glyph pieces which stand on both sides of the consonant; they follow the consonant in logical order, and should be handled as a unit for most processing.*

09CB	ো	BENGALI VOWEL SIGN O ≡ 09C7 ে 09BE া
09CC	ৌ	BENGALI VOWEL SIGN AU ≡ 09C7 ে 09D7 ি

**Virama**

09CD	০	BENGALI SIGN VIRAMA = hasant (Bengali term for halant)
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**Additional consonant**

09CE	ৎ	BENGALI LETTER KHANDA TA • a dead consonant form of ta, without implicit vowel, used in some sequences
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**Sign**

09D7	ী	BENGALI AU LENGTH MARK
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**Additional consonants**


09DC	ৱ	BENGALI LETTER RRA ≡ 09A1 ড 09BC ০
09DD	ৱ	BENGALI LETTER RHA ≡ 09A2 ঢ 09BC ০
09DE	ৡ	<reserved>
09DF	য়	BENGALI LETTER YYA ≡ 09AF য 09BC ০

**Additional vowels for Sanskrit**


09E0	ঋ	BENGALI LETTER VOCALIC RR
09E1	ৠ	BENGALI LETTER VOCALIC LL
09E2	ৡ	BENGALI VOWEL SIGN VOCALIC L
09E3	ৢ	BENGALI VOWEL SIGN VOCALIC LL

**Reserved**

*For viram punctuation, use the generic Indic 0964 and 0965.*

09E4  <reserved>

→ 0964 I devanagari danda

09E5  <reserved>

→ 0965 II devanagari double danda

**Digits**

09E6  BENGALI DIGIT ZERO


09E7  BENGALI DIGIT ONE

09E8  BENGALI DIGIT TWO

09E9  BENGALI DIGIT THREE

09EA  BENGALI DIGIT FOUR

09EB  BENGALI DIGIT FIVE

09EC  BENGALI DIGIT SIX

09ED  BENGALI DIGIT SEVEN

09EE  BENGALI DIGIT EIGHT

09EF  BENGALI DIGIT NINE

**Bengali-specific additions**

09F0  BENGALI LETTER RA WITH MIDDLE DIAGONAL

• Assamese

09F1  BENGALI LETTER RA WITH LOWER DIAGONAL

= bengali letter va with lower diagonal (1.0)

• Assamese

09F2  BENGALI RUPEE MARK

09F3  BENGALI RUPEE SIGN

09F4  BENGALI CURRENCY NUMERATOR ONE

• not in current usage

09F5  BENGALI CURRENCY NUMERATOR TWO


• not in current usage

09F6  BENGALI CURRENCY NUMERATOR THREE

• not in current usage

09F7  BENGALI CURRENCY NUMERATOR FOUR

09F8  BENGALI CURRENCY NUMERATOR ONE LESS THAN THE DENOMINATOR

09F9  BENGALI CURRENCY DENOMINATOR SIXTEEN

09FA  BENGALI ISSHAR

09FB  BENGALI GANDA MARK

	0A0	0A1	0A2	0A3	0A4	0A5	0A6	0A7
0		ਐ 0A10	ਠ 0A20	ਰ 0A30	ੀ 0A40			ੰ 0A70
1	ੰ 0A01		ਡ 0A21		ੁ 0A41	੍ਰ 0A51		ੱ 0A71
2	ਂ 0A02		ਢ 0A22	ਲ 0A32	ੂ 0A42			ੲ 0A72
3	ੰਃ 0A03	ਓ 0A13	ਣ 0A23	ਲ਼ 0A33				ੳ 0A73
4		ਔ 0A14	ਤ 0A24					੬ 0A74
5	ਅ 0A05	ਕ 0A15	ਬ 0A25	ਵ 0A35				੍ਰ 0A75
6	ਆ 0A06	ਖ 0A16	ਦ 0A26	ਸ਼ 0A36			੦ 0A66	
7	ਇ 0A07	ਗ 0A17	ਧ 0A27		ੇ 0A47		੧ 0A67	
8	ਈ 0A08	ਘ 0A18	ਨ 0A28	ਸ਼ 0A38	ੈ 0A48		੨ 0A68	
9	ਉ 0A09	ਙ 0A19		ਹ 0A39		ਖ਼ 0A59	੩ 0A69	
A	ਊ 0A0A	ਚ 0A1A	ਪ 0A2A			ਗ਼ 0A5A	੪ 0A6A	
B		ਛ 0A1B	ਫ 0A2B		ੋ 0A4B	ਜ਼ 0A5B	੫ 0A6B	
C		ਜ 0A1C	ਬ 0A2C	੍ਰ 0A3C	ੌ 0A4C	ੜ 0A5C	੬ 0A6C	
D		ਝ 0A1D	ਭ 0A2D		੍ਰ 0A4D		੭ 0A6D	
E		ਵ 0A1E	ਮ 0A2E	ਾ 0A3E		ਫ਼ 0A5E	੮ 0A6E	
F	ਏ 0A0F	ਟ 0A1F	ਯ 0A2F	ਿ 0A3F			੯ 0A6F	

**Various signs**

0A01	◌ੰ	GURMUKHI SIGN ADAK BINDI
0A02	◌ੰ	GURMUKHI SIGN BINDI
0A03	◌ੰ	GURMUKHI SIGN VISARGA

**Independent vowels**

0A05	ਅ	GURMUKHI LETTER A = aīra
0A06	ਐ	GURMUKHI LETTER AA
0A07	ਇ	GURMUKHI LETTER I
0A08	ਈ	GURMUKHI LETTER II
0A09	ਉ	GURMUKHI LETTER U
0A0A	ਊ	GURMUKHI LETTER UU
0A0B	◌	<reserved>
0A0C	◌	<reserved>
0A0D	◌	<reserved>
0A0E	◌	<reserved>
0A0F	ਏ	GURMUKHI LETTER EE
0A10	ਐ	GURMUKHI LETTER AI
0A11	◌	<reserved>
0A12	◌	<reserved>
0A13	ਓ	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	◌	<reserved>
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	◌	<reserved>
0A32	ਲ	GURMUKHI LETTER LA
0A33	ਲ਼	GURMUKHI LETTER LLA = 0A32 ਲ 0A3C ੜ
0A34	◌	<reserved>
0A35	ਵ	GURMUKHI LETTER VA

0A36	ਸ਼	GURMUKHI LETTER SHA = 0A38 ਸ਼ 0A3C ੜ
0A37	◌	<reserved>
0A38	ਸ਼	GURMUKHI LETTER SA
0A39	ਹ	GURMUKHI LETTER HA

**Various signs**

0A3C	◌	GURMUKHI SIGN NUKTA = pairin bindi • for extending the alphabet to new letters
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**Dependent vowel signs**

0A3E	◌ਾ	GURMUKHI VOWEL SIGN AA = kanna
0A3F	◌ਿ	GURMUKHI VOWEL SIGN I = sihari • stands to the left of the consonant
0A40	◌ੀ	GURMUKHI VOWEL SIGN II = bihari
0A41	◌ੁ	GURMUKHI VOWEL SIGN U = aunkar
0A42	◌ੂ	GURMUKHI VOWEL SIGN UU = dulaīnkar
0A43	◌	<reserved>
0A44	◌	<reserved>
0A45	◌	<reserved>
0A46	◌	<reserved>
0A47	◌ੇ	GURMUKHI VOWEL SIGN EE = lanvan
0A48	◌ੈ	GURMUKHI VOWEL SIGN AI = dulanvan
0A49	◌	<reserved>
0A4A	◌	<reserved>
0A4B	◌ੋ	GURMUKHI VOWEL SIGN OO = hora
0A4C	◌ੌ	GURMUKHI VOWEL SIGN AU = kanaura

**Virama**

0A4D	◌ੜ	GURMUKHI SIGN VIRAMA
0A4E	◌	<reserved>
0A4F	◌	<reserved>
0A50	◌	<reserved>
0A51	◌ੜ	GURMUKHI SIGN UDAAT

**Additional consonants**

0A59	ਖ਼	GURMUKHI LETTER KHHA = 0A16 ਖ਼ 0A3C ੜ
0A5A	ਗ਼	GURMUKHI LETTER GHHA = 0A17 ਗ਼ 0A3C ੜ
0A5B	ਜ਼	GURMUKHI LETTER ZA = 0A1C ਜ਼ 0A3C ੜ
0A5C	ੜ	GURMUKHI LETTER RRA
0A5D	◌	<reserved>
0A5E	ਫ਼	GURMUKHI LETTER FA = 0A2B ਫ਼ 0A3C ੜ

**Reserved**


For viram punctuation, use the generic Indic 0964 and 0965.

0A64	◌	<reserved> → 0964 । devanagari danda
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0A65

Gurmukhi

0A75

0A65  <reserved>  
 → 0965 II devanagari double danda

**Digits**

0A66 0 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 ੱ GURMUKHI TIPPI  
 • nasalization  
 0A71 ੱ 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  
 0A75 ੵ GURMUKHI SIGN YAKASH

	0A8	0A9	0AA	0AB	0AC	0AD	0AE	0AF
0		ૐ 0A90	ઠ 0AA0	ર 0AB0	ી 0AC0	ૐ 0AD0	જ 0AE0	
1	ૐ 0A81	ઑ 0A91	ડ 0AA1		ુ 0AC1		જે 0AE1	ૐ 0AF1
2	ં 0A82		ઢ 0AA2	લ 0AB2	ૂ 0AC2		ૐ 0AE2	
3	ઃ 0A83	ઔ 0A93	ણ 0AA3	ળ 0AB3	ૃ 0AC3		ૐ 0AE3	
4		ઔ 0A94	ત 0AA4		ૃ 0AC4			
5	અ 0A85	ક 0A95	થ 0AA5	વ 0AB5	ે 0AC5			
6	આ 0A86	ખ 0A96	દ 0AA6	શ 0AB6			ૐ 0AE6	
7	ઈ 0A87	ગ 0A97	ધ 0AA7	ષ 0AB7	ે 0AC7		ૐ 0AE7	
8	ઈ 0A88	ઘ 0A98	ન 0AA8	સ 0AB8	ૈ 0AC8		ૐ 0AE8	
9	ઉ 0A89	ડ 0A99		હ 0AB9	ૌ 0AC9		ૐ 0AE9	
A	ઊ 0A8A	ચ 0A9A	પ 0AAA				ૐ 0AEA	
B	જ 0A8B	છ 0A9B	ફ 0AAB		ો 0ACB		ૐ 0AEB	
C	જ 0A8C	ઝ 0A9C	બ 0AAC	ં 0ABC	ૌ 0ACC		ૐ 0AEC	
D	ઞ 0A8D	ઝ 0A9D	ભ 0AAD	ડ 0ABD	્ 0ACD		ૐ 0AED	
E		ઞ 0A9E	મ 0AAE	ા 0ABE			ૐ 0AEE	
F	ઞ 0A8F	ટ 0A9F	ય 0AAF	િ 0ABF			ૐ 0AEF	

## 0A81

**Various signs**

0A81	ॐ	GUJARATI SIGN CANDRABINDU
0A82	◌ं	GUJARATI SIGN ANUSVARA
0A83	◌ः	GUJARATI SIGN VISARGA

**Independent vowels**

0A85	અ	GUJARATI LETTER A
0A86	આ	GUJARATI LETTER AA
0A87	ઇ	GUJARATI LETTER I
0A88	ઈ	GUJARATI LETTER II
0A89	ઉ	GUJARATI LETTER U
0A8A	ઊ	GUJARATI LETTER UU
0A8B	ઋ	GUJARATI LETTER VOCALIC R
0A8C	ૠ	GUJARATI LETTER VOCALIC L
		• used with Sanskrit text
0A8D	ઐ	GUJARATI VOWEL CANDRA E
0A8E	◻	<reserved>
0A8F	એ	GUJARATI LETTER E
0A90	ૐ	GUJARATI LETTER AI
0A91	ઔ	GUJARATI VOWEL CANDRA O
0A92	◻	<reserved>
0A93	ઑ	GUJARATI LETTER O
0A94	ૐ	GUJARATI LETTER AU

**Consonants**

0A95	ક	GUJARATI LETTER KA
0A96	ખ	GUJARATI LETTER KHA
0A97	ગ	GUJARATI LETTER GA
0A98	ઘ	GUJARATI LETTER GHA
0A99	ઙ	GUJARATI LETTER NGA
0A9A	ચ	GUJARATI LETTER CA
0A9B	છ	GUJARATI LETTER CHA
0A9C	જ	GUJARATI LETTER JA
0A9D	ઝ	GUJARATI LETTER JHA
0A9E	ઞ	GUJARATI LETTER NYA
0A9F	ટ	GUJARATI LETTER TTA
0AA0	ઠ	GUJARATI LETTER TTHA
0AA1	ડ	GUJARATI LETTER DDA
0AA2	ઢ	GUJARATI LETTER DDHA
0AA3	ણ	GUJARATI LETTER NNA
0AA4	ત	GUJARATI LETTER TA
0AA5	થ	GUJARATI LETTER THA
0AA6	દ	GUJARATI LETTER DA
0AA7	ધ	GUJARATI LETTER DHA
0AA8	ન	GUJARATI LETTER NA
0AA9	◻	<reserved>
0AAA	પ	GUJARATI LETTER PA
0AAB	ફ	GUJARATI LETTER PHA
0AAC	બ	GUJARATI LETTER BA
0AAD	ભ	GUJARATI LETTER BHA
0AAE	મ	GUJARATI LETTER MA
0AAF	ય	GUJARATI LETTER YA
0AB0	ર	GUJARATI LETTER RA
0AB1	◻	<reserved>
0AB2	લ	GUJARATI LETTER LA
0AB3	ળ	GUJARATI LETTER LLA
0AB4	◻	<reserved>
0AB5	વ	GUJARATI LETTER VA
0AB6	શ	GUJARATI LETTER SHA
0AB7	સ	GUJARATI LETTER SSA

## Gujarati

## 0AF1

0AB8	સ	GUJARATI LETTER SA
0AB9	હ	GUJARATI LETTER HA

**Various signs**

0ABC	◌્	GUJARATI SIGN NUKTA
		• for extending the alphabet to new letters
0ABD	સ	GUJARATI SIGN AVAGRAHA

**Dependent vowel signs**

0ABE	◌ા	GUJARATI VOWEL SIGN AA
0ABF	◌િ	GUJARATI VOWEL SIGN I
		• stands to the left of the consonant
0AC0	◌ી	GUJARATI VOWEL SIGN II
0AC1	◌ુ	GUJARATI VOWEL SIGN U
0AC2	◌ૂ	GUJARATI VOWEL SIGN UU
0AC3	◌ૃ	GUJARATI VOWEL SIGN VOCALIC R
0AC4	◌ૠ	GUJARATI VOWEL SIGN VOCALIC RR
0AC5	◌ૡ	GUJARATI VOWEL SIGN CANDRA E
0AC6	◻	<reserved>
0AC7	◌ે	GUJARATI VOWEL SIGN E
0AC8	◌ૐ	GUJARATI VOWEL SIGN AI
0AC9	◌ૌ	GUJARATI VOWEL SIGN CANDRA O
0ACA	◻	<reserved>
0ACB	◌૑	GUJARATI VOWEL SIGN O
0ACC	◌ૐ	GUJARATI VOWEL SIGN AU

**Virama**

0ACD	◌્	GUJARATI SIGN VIRAMA
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**Various signs**

0AD0	ॐ	GUJARATI OM
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**Additional vowels for Sanskrit**

0AE0	ઋ	GUJARATI LETTER VOCALIC RR
0AE1	ૠ	GUJARATI LETTER VOCALIC LL
0AE2	◌ૃ	GUJARATI VOWEL SIGN VOCALIC L
0AE3	◌ૠ	GUJARATI VOWEL SIGN VOCALIC LL

**Reserved**

For viram punctuation, use the generic Indic 0964 and 0965.



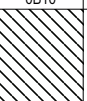
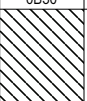
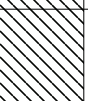

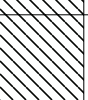




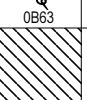
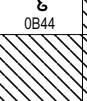

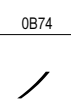



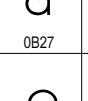
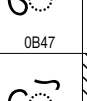

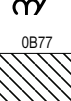
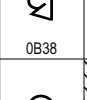



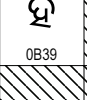



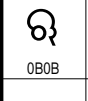


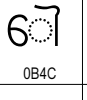
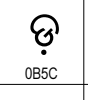

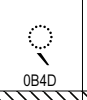

0AE4	◻	<reserved>
		→ 0964 I devanagari danda
0AE5	◻	<reserved>
		→ 0965 II devanagari double danda

**Digits**

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

**Currency sign**

0AF1	₹	GUJARATI RUPEE SIGN
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	0B0	0B1	0B2	0B3	0B4	0B5	0B6	0B7
0		ଐ 0B10	ଊ 0B20	ଋ 0B30	ୠ 0B40		ଌ 0B60	ୡ 0B70
1	ୢ 0B01		ୣ 0B21		୥ 0B41		୦ 0B61	ୠ 0B71
2	୦ 0B02		ୡ 0B22	ୢ 0B32	ୣ 0B42		୦ 0B62	ୠ 0B72
3	ୠ 0B03	ୡ 0B13	ୢ 0B23	ୣ 0B33	୥ 0B43		୦ 0B63	ୠ 0B73
4		ୢ 0B14	ୣ 0B24		୥ 0B44			ୡ 0B74
5	ୢ 0B05	ୣ 0B15	୥ 0B25	୦ 0B35				ୢ 0B75
6	ୠ 0B06	ୡ 0B16	ୢ 0B26	ୣ 0B36		୥ 0B56	୦ 0B66	ୠ 0B76
7	ୢ 0B07	ୣ 0B17	୥ 0B27	୦ 0B37	୥ 0B47	୦ 0B57	ୠ 0B67	ୢ 0B77
8	ୢ 0B08	ୣ 0B18	୥ 0B28	୦ 0B38	୥ 0B48		ୠ 0B68	
9	ୢ 0B09	ୣ 0B19		୥ 0B39			ୠ 0B69	
A	ୢ 0B0A	ୣ 0B1A	୥ 0B2A				ୠ 0B6A	
B	ୢ 0B0B	ୣ 0B1B	୥ 0B2B		୥ 0B4B		ୠ 0B6B	
C	ୢ 0B0C	ୣ 0B1C	୥ 0B2C	୦ 0B3C	୥ 0B4C	୦ 0B5C	ୠ 0B6C	
D		ୢ 0B1D	ୣ 0B2D	୥ 0B3D	୦ 0B4D	୥ 0B5D	ୠ 0B6D	
E		ୢ 0B1E	ୣ 0B2E	୥ 0B3E			ୠ 0B6E	
F	ୢ 0B0F	ୣ 0B1F	୥ 0B2F	୦ 0B3F		୥ 0B5F	ୠ 0B6F	



## 0B01

**Various signs**

0B01	𑀓	ORIYA SIGN CANDRABINDU
0B02	𑀔	ORIYA SIGN ANUSVARA
0B03	𑀕	ORIYA SIGN VISARGA

**Independent vowels**

0B05	𑀗	ORIYA LETTER A
0B06	𑀘	ORIYA LETTER AA
0B07	𑀙	ORIYA LETTER I
0B08	𑀚	ORIYA LETTER II
0B09	𑀛	ORIYA LETTER U
0B0A	𑀜	ORIYA LETTER UU
0B0B	𑀝	ORIYA LETTER VOCALIC R
0B0C	𑀞	ORIYA LETTER VOCALIC L
0B0D	𑀟	<reserved>
0B0E	𑀠	<reserved>
0B0F	𑀡	ORIYA LETTER E
0B10	𑀢	ORIYA LETTER AI
0B11	𑀣	<reserved>
0B12	𑀤	<reserved>
0B13	𑀥	ORIYA LETTER O
0B14	𑀦	ORIYA LETTER AU

**Consonants**

0B15	𑀧	ORIYA LETTER KA
0B16	𑀨	ORIYA LETTER KHA
0B17	𑀩	ORIYA LETTER GA
0B18	𑀪	ORIYA LETTER GH
0B19	𑀫	ORIYA LETTER NGA
0B1A	𑀬	ORIYA LETTER CA
0B1B	𑀭	ORIYA LETTER CHA
0B1C	𑀮	ORIYA LETTER JA
0B1D	𑀯	ORIYA LETTER JHA
0B1E	𑀰	ORIYA LETTER NYA
0B1F	𑀱	ORIYA LETTER TTA
0B20	𑀲	ORIYA LETTER TT
0B21	𑀳	ORIYA LETTER DDA
0B22	𑀴	ORIYA LETTER DDHA
0B23	𑀵	ORIYA LETTER NNA
0B24	𑀶	ORIYA LETTER TA
0B25	𑀷	ORIYA LETTER THA
0B26	𑀸	ORIYA LETTER DA
0B27	𑀹	ORIYA LETTER DHA
0B28	𑀺	ORIYA LETTER NA
0B29	𑀻	<reserved>
0B2A	𑀼	ORIYA LETTER PA
0B2B	𑀽	ORIYA LETTER PHA
0B2C	𑀾	ORIYA LETTER BA
		→ 0B35 𑀿 oriya letter va
0B2D	𑀿	ORIYA LETTER BHA
0B2E	𑁀	ORIYA LETTER MA
0B2F	𑁁	ORIYA LETTER YA
		= ja
0B30	𑁂	ORIYA LETTER RA
0B31	𑁃	<reserved>
0B32	𑁄	ORIYA LETTER LA
0B33	𑁅	ORIYA LETTER LLA
0B34	𑁆	<reserved>
0B35	𑁇	ORIYA LETTER VA
		→ 0B2C 𑀾 oriya letter ba

## Oriya

## 0B63

0B36	𑁈	ORIYA LETTER SHA
0B37	𑁉	ORIYA LETTER SSA
0B38	𑁊	ORIYA LETTER SA
0B39	𑁋	ORIYA LETTER HA

**Various signs**

0B3C	𑁌	ORIYA SIGN NUKTA
		• for extending the alphabet to new letters
0B3D	𑁍	ORIYA SIGN AVAGRAHA

**Dependent vowel signs**

0B3E	𑁎	ORIYA VOWEL SIGN AA
0B3F	𑁏	ORIYA VOWEL SIGN I
0B40	𑁐	ORIYA VOWEL SIGN II
0B41	𑁑	ORIYA VOWEL SIGN U
0B42	𑁒	ORIYA VOWEL SIGN UU
0B43	𑁓	ORIYA VOWEL SIGN VOCALIC R
0B44	𑁔	ORIYA VOWEL SIGN VOCALIC RR
0B45	𑁕	<reserved>
0B46	𑁖	<reserved>
0B47	𑁗	ORIYA VOWEL SIGN E
		• stands to the left of the consonant
0B48	𑁘	ORIYA VOWEL SIGN AI
		• pieces left of and above the consonant
		≡ 0B47 𑁗 0B56 𑁙

**Two-part dependent vowel signs**

*These vowel signs have glyph pieces which stand on both sides of the consonant; they follow the consonant in logical order, and should be handled as a unit for most processing.*

0B4B	𑁚	ORIYA VOWEL SIGN O
		≡ 0B47 𑁗 0B3E 𑁎
0B4C	𑁛	ORIYA VOWEL SIGN AU
		≡ 0B47 𑁗 0B57 𑁜

**Virama**

0B4D	𑁝	ORIYA SIGN VIRAMA
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**Various signs**

0B56	𑁙	ORIYA AI LENGTH MARK
0B57	𑁜	ORIYA AU LENGTH MARK

**Additional consonants**

0B5C	𑁞	ORIYA LETTER RRA
		= dda
		≡ 0B21 𑀳 0B3C 𑁌
0B5D	𑁟	ORIYA LETTER RHA
		= ddha
		≡ 0B22 𑀴 0B3C 𑁌
0B5E	𑁠	<reserved>
0B5F	𑁡	ORIYA LETTER YYA
		= ya

**Additional vowels for Sanskrit**


0B60	𑁢	ORIYA LETTER VOCALIC RR
0B61	𑁣	ORIYA LETTER VOCALIC LL

**Dependent vowels**


0B62	𑁤	ORIYA VOWEL SIGN VOCALIC L
0B63	𑁥	ORIYA VOWEL SIGN VOCALIC LL

**Reserved**

*For viram punctuation, use the generic Indic 0964 and 0965.*

0B64  <reserved>

→ 0964 I devanagari danda

0B65  <reserved>

→ 0965 II devanagari double danda

**Digits**

0B66 ୦ 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 additions**

0B70 ✓ ORIYA ISSHAR

0B71 ଓ ORIYA LETTER WA

→ 0B13 ଓ oriya letter o

→ 0B35 ବ oriya letter va

**Fraction signs**

0B72 ୧୪ ORIYA FRACTION ONE QUARTER

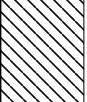
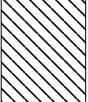



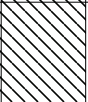

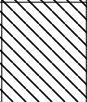
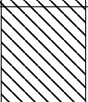
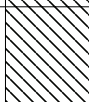
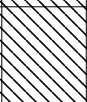
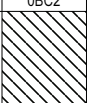
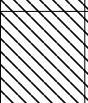

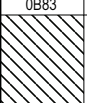
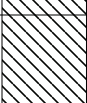
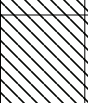
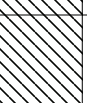

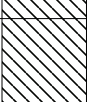


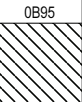
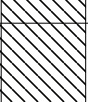


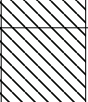




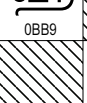

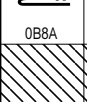
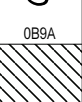
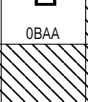



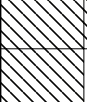


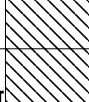

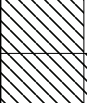

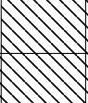

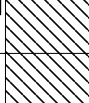

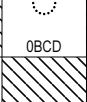
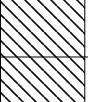

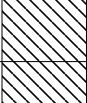
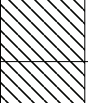

0B73 ୧୨ ORIYA FRACTION ONE HALF

0B74 ୩୪ ORIYA FRACTION THREE QUARTERS

0B75 ୧୬ ORIYA FRACTION ONE SIXTEENTH

0B76 ୧୮ ORIYA FRACTION ONE EIGHTH

0B77 ୩୧୬ ORIYA FRACTION THREE SIXTEENTHS

	0B8	0B9	0BA	0BB	0BC	0BD	0BE	0BF
0		ஐ 0B90		ர 0BB0	ீ 0BC0	ஔ 0BD0		ய 0BF0
1				ற 0BB1	ு 0BC1			ள 0BF1
2	ஃ 0B82	ஔ 0B92		ல 0BB2	ூ 0BC2			சு 0BF2
3	ஃ 0B83	ஔ 0B93	ண 0BA3	ள 0BB3				உ 0BF3
4		ௌ 0B94	த 0BA4	ழ 0BB4				மீ 0BF4
5	அ 0B85	க 0B95		வ 0BB5				ஶ 0BF5
6	ஆ 0B86			ய 0BB6	ெ 0BC6		ஐ 0BE6	யூ 0BF6
7	இ 0B87			ஷ 0BB7	ே 0BC7	ௌ 0BD7	க 0BE7	ஶ 0BF7
8	ஈ 0B88		ந 0BA8	ஸ 0BB8	ை 0BC8		உ 0BE8	ஷை 0BF8
9	உ 0B89	ங 0B99	ன 0BA9	ஹ 0BB9			ந 0BE9	நீ 0BF9
A	ஊ 0B8A	ச 0B9A	ப 0BAA		ொ 0BCA		சு 0BEA	நீ 0BFA
B					ோ 0BCB		ரு 0BEB	
C		ஐ 0B9C			ௌ 0BCC		சு 0BEC	
D					ஃ 0BCD		எ 0BED	
E	எ 0B8E	ஞ 0B9E	ம 0BAE	ா 0BBE			அ 0BEE	
F	ஏ 0B8F	ட 0B9F	ய 0BAF	ி 0BBF			சு 0BEF	



0BF1

Tamil

0BFA

0BF1 ஸ்ரீ TAMIL NUMBER ONE HUNDRED  
 0BF2 சூ TAMIL NUMBER ONE THOUSAND

**Tamil symbols**












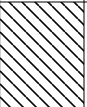



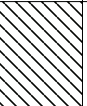






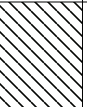




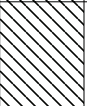
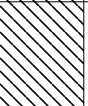






0BF3 ன TAMIL DAY SIGN  
 = naal  
 0BF4 மீ TAMIL MONTH SIGN  
 = maatham  
 0BF5 வருடம் TAMIL YEAR SIGN  
 = varudam  
 0BF6 பி TAMIL DEBIT SIGN  
 = patru  
 0BF7 வரவு TAMIL CREDIT SIGN  
 = varavu  
 0BF8 மெய்யு TAMIL AS ABOVE SIGN  
 = merpadi

**Currency symbol**

0BF9 ரூ TAMIL RUPEE SIGN  
 = rupai

**Tamil symbol**

0BFA ன் TAMIL NUMBER SIGN  
 = enn

	0C0	0C1	0C2	0C3	0C4	0C5	0C6	0C7
0		ఐ 0C10	ఠ 0C20	ఠ 0C30	ఠ 0C40		ఋ 0C60	
1	ఁ 0C01		ఢ 0C21	ఢ 0C31	ౠ 0C41		ౡ 0C61	
2	ం 0C02	ఒ 0C12	ఢ 0C22	ల 0C32	ౡ 0C42		ౢ 0C62	
3	ం 0C03	ఓ 0C13	ణ 0C23	ళ 0C33	ౣ 0C43		ౣ 0C63	
4		ఔ 0C14	త 0C24		౥ 0C44			
5	అ 0C05	క 0C15	థ 0C25	వ 0C35		ం 0C55		
6	ఆ 0C06	ఖ 0C16	ద 0C26	శ 0C36	౧ 0C46	ం 0C56	ం 0C66	
7	ఇ 0C07	గ 0C17	ధ 0C27	ష 0C37	౧ 0C47		ం 0C67	
8	ఈ 0C08	ఘ 0C18	న 0C28	స 0C38	ం 0C48	ఱ 0C58	ం 0C68	ం 0C78
9	ఉ 0C09	ఙ 0C19		హ 0C39		ఱ 0C59	ం 0C69	ం 0C79
A	ఊ 0C0A	చ 0C1A	ప 0C2A		౧ 0C4A		ం 0C6A	ం 0C7A
B	ఋ 0C0B	ఛ 0C1B	ఫ 0C2B		౧ 0C4B		ం 0C6B	ం 0C7B
C	ౠ 0C0C	జ 0C1C	బ 0C2C		౧ 0C4C		ం 0C6C	ం 0C7C
D		ఝ 0C1D	భ 0C2D	౧ 0C3D	౧ 0C4D		ం 0C6D	ం 0C7D
E	ఎ 0C0E	ఞ 0C1E	మ 0C2E	౧ 0C3E			ం 0C6E	ం 0C7E
F	ఏ 0C0F	ట 0C1F	య 0C2F	ం 0C3F			ం 0C6F	ం 0C7F

## 0C01

**Various signs**

0C01	◌	TELUGU SIGN CANDRABINDU = arasunna
0C02	◌	TELUGU SIGN ANUSVARA = sunna
0C03	◌	TELUGU SIGN VISARGA

**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	◌	<reserved>
0C0E	ఎ	TELUGU LETTER E
0C0F	ఐ	TELUGU LETTER EE
0C10	ఒ	TELUGU LETTER AI
0C11	◌	<reserved>
0C12	ఓ	TELUGU LETTER O
0C13	ఔ	TELUGU LETTER OO
0C14	ఌ	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	◌	<reserved>
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	◌	<reserved>
0C35	వ	TELUGU LETTER VA
0C36	శ	TELUGU LETTER SHA

## Telugu

## 0C6E

0C37	ష	TELUGU LETTER SSA
0C38	స	TELUGU LETTER SA
0C39	హ	TELUGU LETTER HA

**Addition for Sanskrit**

0C3D	ఽ	TELUGU SIGN AVAGRAHA
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**Dependent vowel signs**

0C3E	ౡ	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	౦	TELUGU VOWEL SIGN VOCALIC R
0C44	ౠ	TELUGU VOWEL SIGN VOCALIC RR
0C45	◌	<reserved>
0C46	ౡ	TELUGU VOWEL SIGN E
0C47	ౢ	TELUGU VOWEL SIGN EE
0C48	ౣ	TELUGU VOWEL SIGN AI ≡ 0C46 ౡ 0C56 ౤
0C49	◌	<reserved>
0C4A	౦	TELUGU VOWEL SIGN O
0C4B	ౠ	TELUGU VOWEL SIGN OO
0C4C	ౡ	TELUGU VOWEL SIGN AU

**Virama**

0C4D	్	TELUGU SIGN VIRAMA = halant (the preferred name)
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**Various signs**

0C55	◌	TELUGU LENGTH MARK
0C56	◌	TELUGU AI LENGTH MARK

**Historic phonetic variants**

0C58	ష	TELUGU LETTER TSA
0C59	జ	TELUGU LETTER DZA

**Additional vowels for Sanskrit**

0C60	ఋ	TELUGU LETTER VOCALIC RR
0C61	ౠ	TELUGU LETTER VOCALIC LL

**Dependent vowels**

0C62	ౡ	TELUGU VOWEL SIGN VOCALIC L
0C63	ౢ	TELUGU VOWEL SIGN VOCALIC LL

**Reserved**

For viram punctuation, use the generic Indic 0964 and 0965.

0C64	◌	<reserved> → 0964 I devanagari danda
0C65	◌	<reserved> → 0965 II devanagari double danda

**Digits**

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

**Telugu fractions and weights**

0C78    ౩    TELUGU FRACTION DIGIT ZERO FOR ODD  
POWERS OF FOUR

0C79    1    TELUGU FRACTION DIGIT ONE FOR ODD  
POWERS OF FOUR

0C7A    ౪    TELUGU FRACTION DIGIT TWO FOR ODD  
POWERS OF FOUR

0C7B    ౫    TELUGU FRACTION DIGIT THREE FOR ODD  
POWERS OF FOUR

0C7C    —    TELUGU FRACTION DIGIT ONE FOR EVEN  
POWERS OF FOUR

0C7D    ౭    TELUGU FRACTION DIGIT TWO FOR EVEN  
POWERS OF FOUR

0C7E    ౮    TELUGU FRACTION DIGIT THREE FOR EVEN  
POWERS OF FOUR

0C7F    ౯    TELUGU SIGN TUUMU



	0C8	0C9	0CA	0CB	0CC	0CD	0CE	0CF
0		ಐ 0C90	ಠ 0CA0	ರ 0CB0	ೀ 0CC0		ಖಾ 0CE0	
1			ಢ 0CA1	ಱ 0CB1	ು 0CC1		ಘಾ 0CE1	ಞ 0CF1
2	ಂ 0C82	ಒ 0C92	ಢ 0CA2	ಲ 0CB2	ೂ 0CC2		ಞ್ 0CE2	ಂಂ 0CF2
3	ಃ 0C83	ಓ 0C93	ಣ 0CA3	ಳ 0CB3	ೃ 0CC3		ಞ್ 0CE3	
4		ಔ 0C94	ಱ 0CA4		ೄ 0CC4			
5	ಱ 0C85	ಀ 0C95	ಱ 0CA5	ಱ 0CB5		ೀ 0CD5		
6	ಱ 0C86	ಱ 0C96	ಱ 0CA6	ಱ 0CB6	ೀ 0CC6	ೃ 0CD6	ಂ 0CE6	
7	ಱ 0C87	ಱ 0C97	ಱ 0CA7	ಱ 0CB7	ೀ 0CC7		ಂ 0CE7	
8	ಱ 0C88	ಱ 0C98	ಱ 0CA8	ಱ 0CB8	ೀ 0CC8		ಂ 0CE8	
9	ಱ 0C89	ಱ 0C99		ಱ 0CB9			ಱ 0CE9	
A	ಱ 0C8A	ಱ 0C9A	ಱ 0CAA		ೀ 0CCA		ಱ 0CEA	
B	ಱ 0C8B	ಱ 0C9B	ಱ 0CAB		ೀ 0CCB		ಱ 0CEB	
C	ಱ 0C8C	ಱ 0C9C	ಱ 0CAC	ಱ 0CBC	ಱ 0CCC		ಱ 0CEC	
D		ಱ 0C9D	ಱ 0CAD	ಱ 0CBD	ಱ 0CCD		ಱ 0CED	
E	ಱ 0C8E	ಱ 0C9E	ಱ 0CAE	ಱ 0CBE		ಱ 0CDE	ಱ 0CEE	
F	ಱ 0C8F	ಱ 0C9F	ಱ 0CAF	ಱ 0CBF			ಱ 0CEF	



0CEB

Kannada



















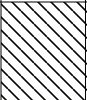












0CF2

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

**Vedic signs**

*The Vedic signs for jihvamuliya and upadhmaniya were encoded in the Kannada block, but are intended for general Vedic use with all scripts.*

0CF1	ꣳ	KANNADA SIGN JIHVAMULIYA
		• marks a velar fricative occurring only before unvoiced velar stops
		→ 0F88 ꣴ tibetan sign lce tsa can
0CF2	ꣵ	KANNADA SIGN UPADHMANIYA
		• marks a bilabial fricative occurring only before unvoiced labial stops
		→ 0F89 ꣶ tibetan sign mchu can
		→ 1CF2 ꣷ vedic sign ardhavisarga

	0D0	0D1	0D2	0D3	0D4	0D5	0D6	0D7
0		ഐ 0D10	ഠ 0D20	ര 0D30	ീ 0D40		ജ 0D60	ധ 0D70
1			ഡ 0D21	റ 0D31	ൂ 0D41		ഞ 0D61	ന 0D71
2	ഌ 0D02	ഒ 0D12	ഡ 0D22	ല 0D32	ൂ 0D42		ൺ 0D62	൯ 0D72
3	഍ 0D03	ഓ 0D13	ണ 0D23	ള 0D33	ൃ 0D43		ൺ 0D63	റ 0D73
4		ഔ 0D14	ത 0D24	ഴ 0D34	ൃ 0D44			ൽ 0D74
5	അ 0D05	ക 0D15	ഥ 0D25	വ 0D35				ൺ 0D75
6	ആ 0D06	ച 0D16	ഭ 0D26	ശ 0D36	െ 0D46		ഠ 0D66	
7	ഇ 0D07	ശ 0D17	ധ 0D27	ഷ 0D37	േ 0D47	ൂ 0D57	ഥ 0D67	
8	ഈ 0D08	ഘ 0D18	ന 0D28	സ 0D38	ൈ 0D48		റ 0D68	
9	ഉ 0D09	ഔ 0D19	ണ 0D29	ഹ 0D39			ന 0D69	ന 0D79
A	ഊ 0D0A	ച 0D1A	വ 0D2A	റ്റി 0D3A	ൊ 0D4A		ർ 0D6A	ൺ 0D7A
B	ഈ 0D0B	ഘ 0D1B	ഘ 0D2B		ോ 0D4B		ൺ 0D6B	ൺ 0D7B
C	ൺ 0D0C	ജ 0D1C	ബ 0D2C		ൺ 0D4C		ന 0D6C	ർ 0D7C
D		ഡ 0D1D	ഭ 0D2D	ഴ 0D3D	ൂ 0D4D		ഠ 0D6D	ൽ 0D7D
E	ഐ 0D0E	ൺ 0D1E	മ 0D2E	ാ 0D3E			വ 0D6E	ൾ 0D7E
F	ഐ 0D0F	ട 0D1F	യ 0D2F	ി 0D3F			ൺ 0D6F	ൽ 0D7F

## 0D02

**Various signs**

0D02	◌̣	MALAYALAM SIGN ANUSVARA
0D03	◌̣̣	MALAYALAM SIGN VISARGA

**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	◌̣̣̣	<reserved>
0D0E	എ	MALAYALAM LETTER E
0D0F	ഐ	MALAYALAM LETTER EE
0D10	ഐ	MALAYALAM LETTER AI
0D11	◌̣̣̣̣	<reserved>
0D12	ഒ	MALAYALAM LETTER O
0D13	ഓ	MALAYALAM LETTER OO
0D14	ഔ	MALAYALAM LETTER AU

**Consonants**

*Alternate romanizations are shown as aliases for some letters to clarify their identity.*

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 = cha
0D1B	ച	MALAYALAM LETTER CHA = chha
0D1C	ജ	MALAYALAM LETTER JA
0D1D	ഝ	MALAYALAM LETTER JHA
0D1E	ഞ	MALAYALAM LETTER NYA = nha
0D1F	ട	MALAYALAM LETTER TTA = ta
0D20	ത	MALAYALAM LETTER TTHA = tta
0D21	ഡ	MALAYALAM LETTER DDA = hard da
0D22	ഢ	MALAYALAM LETTER DDHA = hard dda
0D23	ണ	MALAYALAM LETTER NNA = hard na
0D24	ത	MALAYALAM LETTER TA = tha
0D25	ഥ	MALAYALAM LETTER THA = ttha
0D26	ദ	MALAYALAM LETTER DA = soft da
0D27	ഢ	MALAYALAM LETTER DHA = soft dda
0D28	ന	MALAYALAM LETTER NA
0D29	ണ	MALAYALAM LETTER NNNNA
0D2A	പ	MALAYALAM LETTER PA
0D2B	ഫ	MALAYALAM LETTER PHA
0D2C	ബ	MALAYALAM LETTER BA

## Malayalam

## 0D57

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 = zha
0D35	വ	MALAYALAM LETTER VA
0D36	ശ	MALAYALAM LETTER SHA = soft sha
0D37	ഷ	MALAYALAM LETTER SSA = sha
0D38	സ	MALAYALAM LETTER SA
0D39	ഹ	MALAYALAM LETTER HA
0D3A	ഠ	MALAYALAM LETTER TTTA

**Addition for Sanskrit**

0D3D	ഌ	MALAYALAM SIGN AVAGRAHA = praslesham
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**Dependent vowel signs**

0D3E	ഌ	MALAYALAM VOWEL SIGN AA
0D3F	ഌ	MALAYALAM VOWEL SIGN I
0D40	ഌ	MALAYALAM VOWEL SIGN II
0D41	ഌ	MALAYALAM VOWEL SIGN U
0D42	ഌ	MALAYALAM VOWEL SIGN UU
0D43	ഌ	MALAYALAM VOWEL SIGN VOCALIC R
0D44	ഌ	MALAYALAM VOWEL SIGN VOCALIC RR
0D45	◌̣̣̣̣̣	<reserved>
0D46	ഌ	MALAYALAM VOWEL SIGN E • stands to the left of the consonant
0D47	ഌ	MALAYALAM VOWEL SIGN EE • stands to the left of the consonant
0D48	ഌ	MALAYALAM VOWEL SIGN AI • stands to the left of the consonant

**Two-part dependent vowel signs**

*These vowel signs have glyph pieces which stand on both sides of the consonant; they follow the consonant in logical order, and should be handled as a unit for most processing.*

0D4A	ഌ	MALAYALAM VOWEL SIGN O ≡ 0D46 ഌ 0D3E ഌ
0D4B	ഌ	MALAYALAM VOWEL SIGN OO ≡ 0D47 ഌ 0D3E ഌ
0D4C	ഌ	MALAYALAM VOWEL SIGN AU • archaic form of the /au/ dependent vowel → 0D57 ഌ malayalam au length mark ≡ 0D46 ഌ 0D57 ഌ

**Virama**

0D4D	ഌ	MALAYALAM SIGN VIRAMA = chandrakkala (the preferred name) = vowel half-u
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**Various signs**

0D57	ഌ	MALAYALAM AU LENGTH MARK • used alone to write the /au/ dependent vowel in modern texts → 0D4C ഌ malayalam vowel sign au
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**Additional vowels for Sanskrit**

0D60 ഋ MALAYALAM LETTER VOCALIC RR

0D61 ॠ MALAYALAM LETTER VOCALIC LL

**Dependent vowels**

0D62 ഌ MALAYALAM VOWEL SIGN VOCALIC L

0D63 ॡ MALAYALAM VOWEL SIGN VOCALIC LL

**Reserved***For viram punctuation, use the generic Indic 0964 and 0965.*

0D64 𑊄 &lt;reserved&gt;

→ 0964 I devanagari danda

0D65 𑊅 &lt;reserved&gt;

→ 0965 II devanagari double danda

**Digits**

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

**Malayalam numerics**

0D70 ൧൦ MALAYALAM NUMBER TEN

0D71 ൧൦൦ MALAYALAM NUMBER ONE HUNDRED

0D72 ൧൦൦൦ MALAYALAM NUMBER ONE THOUSAND

**Fractions**

0D73 ൧൪ MALAYALAM FRACTION ONE QUARTER

0D74 ൧൨ MALAYALAM FRACTION ONE HALF

0D75 ൩൪ MALAYALAM FRACTION THREE QUARTERS

**Date mark**

0D79 ൩൦ MALAYALAM DATE MARK

**Chillu letters**

0D7A ൪൪ MALAYALAM LETTER CHILLU NN

0D7B ൪൫ MALAYALAM LETTER CHILLU N

0D7C ൪൬ MALAYALAM LETTER CHILLU RR

• historically derived from the full letter ra

• also used for chillu r













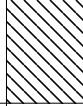




































0D7D ൪൭ MALAYALAM LETTER CHILLU L

• historically derived from the full letter ta

• used for chillu t and chillu d

0D7E ൪൮ MALAYALAM LETTER CHILLU LL



















0D7F ൪൯ MALAYALAM LETTER CHILLU K

	0D8	0D9	0DA	0DB	0DC	0DD	0DE	0DF
0		භ 0D90	ච 0DA0	ධ 0DB0	ඵ 0DC0	ඹ 0DD0		
1		ඵ 0D91	ඡ 0DA1	ඣ 0DB1	ඥ 0DC1	ඹ 0DD1		
2	ං 0D82	ඵ 0D92	ඡ 0DA2		ඡ 0DC2	ි 0DD2		ා 0DF2
3	ං 0D83	ඵ 0D93	ඣ 0DA3	ඳ 0DB3	ඪ 0DC3	ි 0DD3		ා 0DF3
4		ඹ 0D94	ඣ 0DA4	ඪ 0DB4	ඣ 0DC4	ඹ 0DD4		
5	ඵ 0D85	ඹ 0D95	ඣ 0DA5	ඵ 0DB5	ඥ 0DC5			
6	ඵ 0D86	ඹ 0D96	ඡ 0DA6	ඪ 0DB6	ඣ 0DC6	ඹ 0DD6		
7	ඵ 0D87		ඣ 0DA7	ඣ 0DB7				
8	ඵ 0D88		ඪ 0DA8	ඹ 0DB8		ා 0DD8		
9	ඹ 0D89		ඪ 0DA9	ඪ 0DB9		ෙ 0DD9		
A	ඹ 0D8A	ක 0D9A	ඪ 0DA A	ය 0DBA	ඹ 0DCA	ෙ 0DDA		
B	ඪ 0D8B	ඪ 0D9B	ඣ 0DAB	ර 0DBB		ෙ 0DDB		
C	ඪ 0D8C	ඣ 0D9C	ඪ 0DAC			ෙ 0DDC		
D	ඪ 0D8D	ඪ 0D9D	ඣ 0DAD	ඪ 0DBD		ෙ 0DDD		
E	ඪ 0D8E	ඪ 0D9E	ඪ 0DAE			ෙ 0DDE		
F	ඪ 0D8F	ඣ 0D9F	ඪ 0DAF		ා 0DCF	ා 0DDF		







**Various signs**

- 0D82  SINHALA SIGN ANUSVARAYA  
= anusvara
- 0D83  SINHALA SIGN VISARGAYA  
= visarga

**Independent vowels**

- 0D85  SINHALA LETTER AYANNA  
= sinhala letter a
- 0D86  SINHALA LETTER AAYANNA  
= sinhala letter aa
- 0D87  SINHALA LETTER AEYANNA  
= sinhala letter ae
- 0D88  SINHALA LETTER AEEYANNA  
= sinhala letter aae
- 0D89  SINHALA LETTER IYANNA  
= sinhala letter i
- 0D8A  SINHALA LETTER IYANNA  
= sinhala letter ii
- 0D8B  SINHALA LETTER UYANNA  
= sinhala letter u
- 0D8C  SINHALA LETTER UUYANNA  
= sinhala letter uu
- 0D8D  SINHALA LETTER IRUYANNA  
= sinhala letter vocalic r
- 0D8E  SINHALA LETTER IRUUYANNA  
= sinhala letter vocalic rr
- 0D8F  SINHALA LETTER ILUYANNA  
= sinhala letter vocalic l
- 0D90  SINHALA LETTER ILUUYANNA  
= sinhala letter vocalic ll
- 0D91  SINHALA LETTER EYANNA  
= sinhala letter e
- 0D92  SINHALA LETTER EYANNA  
= sinhala letter ee
- 0D93  SINHALA LETTER AIYANNA  
= sinhala letter ai
- 0D94  SINHALA LETTER OYANNA  
= sinhala letter o
- 0D95  SINHALA LETTER OYANNA  
= sinhala letter oo
- 0D96  SINHALA LETTER AUYANNA  
= sinhala letter au

**Consonants**

- 0D9A  SINHALA LETTER ALPAPRAANA KAYANNA  
= sinhala letter ka
- 0D9B  SINHALA LETTER MAHAAPRAANA KAYANNA  
= sinhala letter kha
- 0D9C  SINHALA LETTER ALPAPRAANA GAYANNA  
= sinhala letter ga
- 0D9D  SINHALA LETTER MAHAAPRAANA GAYANNA  
= sinhala letter gha
- 0D9E  SINHALA LETTER KANTAJA NAASIKYAYA  
= sinhala letter nga
- 0D9F  SINHALA LETTER SANYAKA GAYANNA  
= sinhala letter nnga
- 0DA0  SINHALA LETTER ALPAPRAANA CAYANNA  
= sinhala letter ca
- 0DA1  SINHALA LETTER MAHAAPRAANA CAYANNA  
= sinhala letter cha
- 0DA2  SINHALA LETTER ALPAPRAANA JAYANNA  
= sinhala letter ja






- 0DA3  SINHALA LETTER MAHAAPRAANA JAYANNA  
= sinhala letter jha
- 0DA4  SINHALA LETTER TAALUJA NAASIKYAYA  
= sinhala letter nya
- 0DA5  SINHALA LETTER TAALUJA SANYOOGA  
NAAKSIKYAYA  
= sinhala letter jnya
- 0DA6  SINHALA LETTER SANYAKA JAYANNA  
= sinhala letter nyja
- 0DA7  SINHALA LETTER ALPAPRAANA TTAYANNA  
= sinhala letter tta
- 0DA8  SINHALA LETTER MAHAAPRAANA TTAYANNA  
= sinhala letter ttha
- 0DA9  SINHALA LETTER ALPAPRAANA DDAYANNA  
= sinhala letter dda
- 0DAA  SINHALA LETTER MAHAAPRAANA DDAYANNA  
= sinhala letter ddha
- 0DAB  SINHALA LETTER MUURDHAJA NAYANNA  
= sinhala letter nna
- 0DAC  SINHALA LETTER SANYAKA DDAYANNA  
= sinhala letter nndda
- 0DAD  SINHALA LETTER ALPAPRAANA TAYANNA  
= sinhala letter ta
- 0DAE  SINHALA LETTER MAHAAPRAANA TAYANNA  
= sinhala letter tha
- 0DAF  SINHALA LETTER ALPAPRAANA DAYANNA  
= sinhala letter da
- 0DB0  SINHALA LETTER MAHAAPRAANA DAYANNA  
= sinhala letter dha
- 0DB1  SINHALA LETTER DANTAJA NAYANNA  
= sinhala letter na
- 0DB2  <reserved>
- 0DB3  SINHALA LETTER SANYAKA DAYANNA  
= sinhala letter nda
- 0DB4  SINHALA LETTER ALPAPRAANA PAYANNA  
= sinhala letter pa
- 0DB5  SINHALA LETTER MAHAAPRAANA PAYANNA  
= sinhala letter pha
- 0DB6  SINHALA LETTER ALPAPRAANA BAYANNA  
= sinhala letter ba
- 0DB7  SINHALA LETTER MAHAAPRAANA BAYANNA  
= sinhala letter bha
- 0DB8  SINHALA LETTER MAYANNA  
= sinhala letter ma
- 0DB9  SINHALA LETTER AMBA BAYANNA  
= sinhala letter mba
- 0DBA  SINHALA LETTER YAYANNA  
= sinhala letter ya
- 0DBB  SINHALA LETTER RAYANNA  
= sinhala letter ra
- 0DBC  <reserved>
- 0DBD  SINHALA LETTER DANTAJA LAYANNA  
= sinhala letter la  
• dental
- 0DBE  <reserved>
- 0DBF  <reserved>
- 0DC0  SINHALA LETTER VAYANNA  
= sinhala letter va
- 0DC1  SINHALA LETTER TAALUJA SAYANNA  
= sinhala letter sha




## 0DC2

## Sinhala
















## 0DF4

- 0DC2  SINHALA LETTER MUURDHAJA SAYANNA  
= sinhala letter ssa  
• retroflex
- 0DC3  SINHALA LETTER DANTAJA SAYANNA  
= sinhala letter sa  
• dental
- 0DC4  SINHALA LETTER HAYANNA  
= sinhala letter ha
- 0DC5  SINHALA LETTER MUURDHAJA LAYANNA  
= sinhala letter lla  
• retroflex
- 0DC6  SINHALA LETTER FAYANNA  
= sinhala letter fa

**Sign**










- 0DCA  SINHALA SIGN AL-LAKUNA  
= virama

**Dependent vowel signs**

- 0DCF  SINHALA VOWEL SIGN AELA-PILLA  
= sinhala vowel sign aa
- 0DD0  SINHALA VOWEL SIGN KETTI AEDA-PILLA  
= sinhala vowel sign ae
- 0DD1  SINHALA VOWEL SIGN DIGA AEDA-PILLA  
= sinhala vowel sign aae
- 0DD2  SINHALA VOWEL SIGN KETTI IS-PILLA  
= sinhala vowel sign i
- 0DD3  SINHALA VOWEL SIGN DIGA IS-PILLA  
= sinhala vowel sign ii
- 0DD4  SINHALA VOWEL SIGN KETTI PAA-PILLA  
= sinhala vowel sign u
- 0DD5  <reserved>
- 0DD6  SINHALA VOWEL SIGN DIGA PAA-PILLA  
= sinhala vowel sign uu
- 0DD7  <reserved>
- 0DD8  SINHALA VOWEL SIGN GAETTA-PILLA  
= sinhala vowel sign vocalic r
- 0DD9  SINHALA VOWEL SIGN KOMBUVA  
= sinhala vowel sign e
- 0DDA  SINHALA VOWEL SIGN DIGA KOMBUVA  
= sinhala vowel sign ee  
≡ 0DD8  0DCA 
- 0ddb  SINHALA VOWEL SIGN KOMBU DEKA  
= sinhala vowel sign ai

**Two-part dependent vowel signs**



*These vowel signs have glyph pieces which stand on both sides of the consonant; they follow the consonant in logical order, and should be handled as a unit for most processing.*

- 0DDC  SINHALA VOWEL SIGN KOMBUVA HAA AELA-PILLA  
= sinhala vowel sign o  
≡ 0DD8  0DCF 
- 0DDD  SINHALA VOWEL SIGN KOMBUVA HAA DIGA AELA-PILLA  
= sinhala vowel sign oo  
≡ 0DD8  0DCA 
- 0DDE  SINHALA VOWEL SIGN KOMBUVA HAA GAYANUKITTA  
= sinhala vowel sign au  
≡ 0DD8  0DDF 

**Dependent vowel sign**

- 0DDF  SINHALA VOWEL SIGN GAYANUKITTA  
= sinhala vowel sign vocalic l

**Additional dependent vowel signs**

- 0DF2  SINHALA VOWEL SIGN DIGA GAETTA-PILLA  
= sinhala vowel sign vocalic rr
- 0DF3  SINHALA VOWEL SIGN DIGA GAYANUKITTA  
= sinhala vowel sign vocalic ll

**Punctuation**

- 0DF4  SINHALA PUNCTUATION KUNDDALIYA

	0E0	0E1	0E2	0E3	0E4	0E5	0E6	0E7
0		๐ 0E10	๑ 0E20	๒ 0E30	๓ 0E40	๔ 0E50		
1	๕ 0E01	๖ 0E11	๗ 0E21	๘ 0E31	๙ 0E41	๐ 0E51		
2	๑ 0E02	๒ 0E12	๓ 0E22	๔ 0E32	๕ 0E42	๖ 0E52		
3	๗ 0E03	๘ 0E13	๙ 0E23	๐ 0E33	๑ 0E43	๒ 0E53		
4	๓ 0E04	๔ 0E14	๕ 0E24	๖ 0E34	๗ 0E44	๘ 0E54		
5	๙ 0E05	๐ 0E15	๑ 0E25	๒ 0E35	๓ 0E45	๔ 0E55		
6	๖ 0E06	๗ 0E16	๘ 0E26	๙ 0E36	๐ 0E46	๑ 0E56		
7	๘ 0E07	๙ 0E17	๐ 0E27	๑ 0E37	๒ 0E47	๓ 0E57		
8	๐ 0E08	๑ 0E18	๒ 0E28	๓ 0E38	๔ 0E48	๕ 0E58		
9	๒ 0E09	๓ 0E19	๔ 0E29	๕ 0E39	๖ 0E49	๗ 0E59		
A	๔ 0E0A	๕ 0E1A	๖ 0E2A	๗ 0E3A	๘ 0E4A	๙ 0E5A		
B	๙ 0E0B	๐ 0E1B	๑ 0E2B		๑ 0E4B	๒ 0E5B		
C	๖ 0E0C	๗ 0E1C	๘ 0E2C		๓ 0E4C			
D	๐ 0E0D	๑ 0E1D	๒ 0E2D		๔ 0E4D			
E	๒ 0E0E	๓ 0E1E	๔ 0E2E		๕ 0E4E			
F	๔ 0E0F	๕ 0E1F	๖ 0E2F	๗ 0E3F	๘ 0E4F			

0E01

Thai

0E54

**Based on TIS 620-2533****Consonants**

0E01	ก	THAI CHARACTER KO KAI
0E02	ข	THAI CHARACTER KHO KHAI
0E03	ฃ	THAI CHARACTER KHO KHUAT
0E04	ค	THAI CHARACTER KHO KHWAI
0E05	ฅ	THAI CHARACTER KHO KHON
0E06	ฆ	THAI CHARACTER KHO RAKHANG
0E07	ง	THAI CHARACTER NGO NGU
0E08	จ	THAI CHARACTER CHO CHAN
0E09	ฉ	THAI CHARACTER CHO CHING
0E0A	ช	THAI CHARACTER CHO CHANG
0E0B	ซ	THAI CHARACTER SO SO
0E0C	ฌ	THAI CHARACTER CHO CHOE
0E0D	ญ	THAI CHARACTER YO YING
0E0E	ฎ	THAI CHARACTER DO CHADA
0E0F	ฏ	THAI CHARACTER TO PATAK
0E10	ฐ	THAI CHARACTER THO THAN
0E11	ฑ	THAI CHARACTER THO NANGMONTHO
0E12	ฒ	THAI CHARACTER THO PHUTHAO
0E13	ณ	THAI CHARACTER NO NEN
0E14	ด	THAI CHARACTER DO DEK
0E15	ต	THAI CHARACTER TO TAO
0E16	ถ	THAI CHARACTER THO THUNG
0E17	ท	THAI CHARACTER THO THAHAN
0E18	ธ	THAI CHARACTER THO THONG
0E19	น	THAI CHARACTER NO NU
0E1A	บ	THAI CHARACTER BO BAIMAI
0E1B	ป	THAI CHARACTER PO PLA
0E1C	ผ	THAI CHARACTER PHO PHUNG
0E1D	ฝ	THAI CHARACTER FO FA
0E1E	พ	THAI CHARACTER PHO PHAN
0E1F	ฟ	THAI CHARACTER FO FAN
0E20	ภ	THAI CHARACTER PHO SAMPHAO
0E21	ม	THAI CHARACTER MO MA
0E22	ย	THAI CHARACTER YO YAK
0E23	ร	THAI CHARACTER RO RUA
0E24	ฤ	THAI CHARACTER RU • independent vowel letter used to write Sanskrit
0E25	ล	THAI CHARACTER LO LING
0E26	ฦ	THAI CHARACTER LU • independent vowel letter used to write Sanskrit
0E27	ว	THAI CHARACTER WO WAEN
0E28	ศ	THAI CHARACTER SO SALA
0E29	ษ	THAI CHARACTER SO RUSI
0E2A	ส	THAI CHARACTER SO SUA
0E2B	ห	THAI CHARACTER HO HIP
0E2C	ฬ	THAI CHARACTER LO CHULA
0E2D	อ	THAI CHARACTER O ANG
0E2E	ฮ	THAI CHARACTER HO NOKHUK = ho nok huk

**Sign**

0E2F	๐	THAI CHARACTER PAIYANNOI = paiyan noi • ellipsis, abbreviation
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**Vowels**

0E30	๑	THAI CHARACTER SARA A
0E31	๒	THAI CHARACTER MAI HAN-AKAT

0E32	๓	THAI CHARACTER SARA AA → 0E45 ๓ thai character lakkhangyao
0E33	๔	THAI CHARACTER SARA AM ≈ 0E4D ๔ 0E32 ๓
0E34	๕	THAI CHARACTER SARA I
0E35	๖	THAI CHARACTER SARA II
0E36	๗	THAI CHARACTER SARA UE
0E37	๘	THAI CHARACTER SARA UEE = sara uue
0E38	๙	THAI CHARACTER SARA U
0E39	๐	THAI CHARACTER SARA UU
0E3A	๑	THAI CHARACTER PHINTHU • Pali virama

**Currency symbol**

0E3F	฿	THAI CURRENCY SYMBOL BAHT
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**Vowels**

0E40	๑	THAI CHARACTER SARA E
0E41	๒	THAI CHARACTER SARA AE
0E42	๓	THAI CHARACTER SARA O
0E43	๔	THAI CHARACTER SARA AI MAIMUAN = sara ai mai muan
0E44	๕	THAI CHARACTER SARA AI MAIMALAI = sara ai mai malai
0E45	๖	THAI CHARACTER LAKKHANGYAO = lakkhang yao • special vowel length indication used with 0E24 ๓ or 0E26 ๓ → 0E32 ๓ thai character sara aa

**Sign**

0E46	๗	THAI CHARACTER MAIYAMOK = mai yamok • repetition
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**Vowel**

0E47	๘	THAI CHARACTER MAITAIKHU = mai taikhu
------	---	--

**Tone marks**

0E48	๑	THAI CHARACTER MAI EK
0E49	๒	THAI CHARACTER MAI THO
0E4A	๓	THAI CHARACTER MAI TRI
0E4B	๔	THAI CHARACTER MAI CHATTAWA

**Signs**

0E4C	๑	THAI CHARACTER THANTHAKHAT • cancellation mark
0E4D	๒	THAI CHARACTER NIKHAHIT = nikkahit • final nasal
0E4E	๓	THAI CHARACTER YAMAKKAN
0E4F	๔	THAI CHARACTER FONGMAN • used as a bullet → 17D9 ๐ khmer sign phnaek muan

**Digits**

0E50	๐	THAI DIGIT ZERO
0E51	๑	THAI DIGIT ONE
0E52	๒	THAI DIGIT TWO
0E53	๓	THAI DIGIT THREE
0E54	๔	THAI DIGIT FOUR

0E55	๕	THAI DIGIT FIVE
0E56	๖	THAI DIGIT SIX
0E57	๗	THAI DIGIT SEVEN
0E58	๘	THAI DIGIT EIGHT
0E59	๙	THAI DIGIT NINE

**Signs**

0E5A	๑๐	THAI CHARACTER ANGKHANKHU
		<ul style="list-style-type: none"> <li>• used to mark end of long sections</li> <li>• used in combination with 0E30 ๐ to mark end of a verse</li> </ul>
0E5B	๑๑	THAI CHARACTER KHOMUT
		<ul style="list-style-type: none"> <li>• used to mark end of chapter or document</li> </ul>
		→ 17DA ๑๒ khmer sign koomuut

	0E8	0E9	0EA	0EB	0EC	0ED	0EE	0EF
0				ຂ 0EB0	໒ 0EC0	໐ 0ED0		
1	ກ 0E81		ມ 0EA1	້ 0EB1	ແ 0EC1	໑ 0ED1		
2	ຂ 0E82		ຢ 0EA2	າ 0EB2	ໂ 0EC2	໒ 0ED2		
3			ຣ 0EA3	ຳ 0EB3	ໃ 0EC3	໓ 0ED3		
4	ຄ 0E84	ດ 0E94		ິ 0EB4	ໄ 0EC4	໔ 0ED4		
5		ຕ 0E95	ລ 0EA5	ື 0EB5		໕ 0ED5		
6		ຖ 0E96		ື 0EB6	ງ 0EC6	໖ 0ED6		
7	ງ 0E87	ທ 0E97	ວ 0EA7	ື 0EB7		ກ 0ED7		
8	ຈ 0E88			ູ 0EB8	່ 0EC8	໘ 0ED8		
9		ນ 0E99		ູ 0EB9	້ 0EC9	ລ 0ED9		
A	ຊ 0E8A	ບ 0E9A	ສ 0EAA		ື 0ECA			
B		ປ 0E9B	ຫ 0EAB	ື 0EBB	້ 0ECB			
C		ຜ 0E9C		ູ 0EBC	້ 0ECC	໙ 0EDC		
D	ຍ 0E8D	ຝ 0E9D	ອ 0EAD	ູ 0EBD	້ 0ECD	໙ 0EDD		
E		ພ 0E9E	ຮ 0EAE					
F		ຟ 0E9F	ຮ 0EAF					

**Consonants**

0E81	ກ	LAO LETTER KO = ko kay
0E82	ຂ	LAO LETTER KHO SUNG = kho khay
0E83		<reserved>
0E84	ຄ	LAO LETTER KHO TAM = kho khuay
0E85		<reserved>
0E86		<reserved>
0E87	ງ	LAO LETTER NGO = ngo ngu, ngo ngua
0E88	ຈ	LAO LETTER CO = co cok, co cua
0E89		<reserved>
0E8A	ຊ	LAO LETTER SO TAM = so sang
0E8B		<reserved>
0E8C		<reserved>
0E8D	ຍ	LAO LETTER NYO = nyo nyung
0E8E		<reserved>
0E8F		<reserved>
0E90		<reserved>
0E91		<reserved>
0E92		<reserved>
0E93		<reserved>
0E94	ດ	LAO LETTER DO = do dek
0E95	ຕ	LAO LETTER TO = to ta
0E96	ຖ	LAO LETTER THO SUNG = tho thong
0E97	ທ	LAO LETTER THO TAM = tho thung
0E98		<reserved>
0E99	ນ	LAO LETTER NO = no nok
0E9A	ບ	LAO LETTER BO = bo be, bo bet
0E9B	ປ	LAO LETTER PO = po pa
0E9C	ຟ	LAO LETTER PHO SUNG = pho pheng
0E9D	ຟ	LAO LETTER FO TAM × LAO LETTER FO FON = fo fa • name is a mistake for fo sung
0E9E	ພ	LAO LETTER PHO TAM = pho phu
0E9F	ຟ	LAO LETTER FO SUNG × LAO LETTER FO FAY • name is a mistake for fo tam
0EA0		<reserved>
0EA1	ມ	LAO LETTER MO = mo mew, mo ma
0EA2	ຢ	LAO LETTER YO = yo ya

0EA3	ຣ	LAO LETTER LO LING × LAO LETTER RO = ro rot • name is a mistake, lo ling is the mnemonic for 0EA5 ລ
0EA4		<reserved>
0EA5	ລ	LAO LETTER LO LOOT × LAO LETTER LO = lo ling • name is a mistake, lo loot is the mnemonic for 0EA3 ຣ
0EA6		<reserved>
0EA7	ວ	LAO LETTER WO = wo wi
0EA8		<reserved>
0EA9		<reserved>
0EAA	ສ	LAO LETTER SO SUNG = so sya
0EAB	ຫ	LAO LETTER HO SUNG = ho hay, ho han
0EAC		<reserved>
0EAD	ອ	LAO LETTER O = o o
0EAE	ຮ	LAO LETTER HO TAM = ho hya, ho hyan

**Sign**

0EAF	໑	LAO ELLIPSIS
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**Vowels**

0EB0	າ	LAO VOWEL SIGN A
0EB1	າ	LAO VOWEL SIGN MAI KAN • vowel shortener
0EB2	າ	LAO VOWEL SIGN AA
0EB3	າ	LAO VOWEL SIGN AM ≈ 0ECD ອ 0EB2 າ
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		<reserved>
0EBB	ອ	LAO VOWEL SIGN MAI KON = mai kong

**Signs**

0EBC	ອ	LAO SEMIVOWEL SIGN LO
0EBD	ອ	LAO SEMIVOWEL SIGN NYO = nyo fyang

**Vowels**

0EC0	ເ	LAO VOWEL SIGN E
0EC1	ເ	LAO VOWEL SIGN EI
0EC2	໋	LAO VOWEL SIGN O
0EC3	໋	LAO VOWEL SIGN AY = mai muan
0EC4	໌	LAO VOWEL SIGN AI = mai may

0EC6

Lao

0EDD

**Sign**

0EC6 ງ LAO KO LA  
 • repetition

**Tone marks**

0EC8 ັ LAO TONE MAI EK  
 0EC9 ັ LAO TONE MAI THO  
 0ECA ັ LAO TONE MAI TI  
 0ECB ັ LAO TONE MAI CATAWA

**Signs**









































































































































































0ECC ັ LAO CANCELLATION MARK  
 0ECD ັ LAO NIGGAHITA  
 • final nasal or long o vowel

**Digits**

0ED0 ໐ LAO DIGIT ZERO  
 0ED1 ໑ LAO DIGIT ONE  
 0ED2 ໒ LAO DIGIT TWO  
 0ED3 ໓ LAO DIGIT THREE  
 0ED4 ໔ LAO DIGIT FOUR  
 0ED5 ໕ LAO DIGIT FIVE  
 0ED6 ໖ LAO DIGIT SIX  
 0ED7 ໗ LAO DIGIT SEVEN  
 0ED8 ໘ LAO DIGIT EIGHT  
 0ED9 ໙ LAO DIGIT NINE

**Digraphs**

0EDC ພ LAO HO NO  
 ≈ 0EAB ຫ 0E99 ນ  
 0EDD ພ LAO HO MO  
 ≈ 0EAB ຫ 0EA1 ນ

	0F0	0F1	0F2	0F3	0F4	0F5	0F6	0F7	0F8	0F9	0FA	0FB	0FC	0FD	0FE	0FF
0																
1																
2																
3																
4																
5																
6																
7																
8																
9																
A																
B																
C																
D																
E																
F																



## 0F00

**Syllable**

0F00 ཨྵ TIBETAN SYLLABLE OM

**Head marks**

0F01 ཨྵ TIBETAN MARK GTER YIG MGO TRUNCATED A

0F02 ཨྵ TIBETAN MARK GTER YIG MGO -UM RNAME BCAD MA

0F03 ཨྵ TIBETAN MARK GTER YIG MGO -UM GTER TSHEG MA

0F04 ཨྵ TIBETAN MARK INITIAL YIG MGO MDUN MA  
• honorific; marks beginning of text or start of new folio

→ 1800 ཨྵ mongolian birga

0F05 ཨྵ TIBETAN MARK CLOSING YIG MGO SGAB MA  
• follows and ligates with initial yig-mgo

0F06 ཨྵ TIBETAN MARK CARET YIG MGO PHUR SHAD MA

0F07 ཨྵ TIBETAN MARK YIG MGO TSHEG SHAD MA

**Marks and signs**0F08 ཨྵ TIBETAN MARK SBRUL SHAD  
• separates sections of meaning equivalent to topics and sub-topics0F09 ཨྵ TIBETAN MARK BSKUR YIG MGO  
• list enumerator, used in Bhutan0F0A ཨྵ TIBETAN MARK BKA- SHOG YIG MGO  
• petition honorific, used in Bhutan0F0B ཨྵ TIBETAN MARK INTERSYLLABIC TSHEG = tsek  
• morpheme delimiter (approximate meaning)  
• the normal tsheg; provides a break opportunity  
• character name is a misnomer0F0C ཨྵ TIBETAN MARK DELIMITER TSHEG BSTAR  
• a non-breaking tsheg; inhibits line breaking  
• character name is a misnomer

≈ &lt;noBreak&gt; 0F0B \*

0F0D ཨྵ TIBETAN MARK SHAD = shey  
• marks end of a section of text (tshig-grub)  
→ 0964 I devanagari danda0F0E ཨྵ TIBETAN MARK NYIS SHAD  
• marks end of a whole topic (don-tshan)  
→ 0965 II devanagari double danda

0F0F ཨྵ TIBETAN MARK TSHEG SHAD

0F10 ཨྵ TIBETAN MARK NYIS TSHEG SHAD

0F11 ཨྵ TIBETAN MARK RIN CHEN SPUNGS SHAD  
• shad which follows a tsheg-bar that starts a new line

0F12 ཨྵ TIBETAN MARK RGYA GRAM SHAD

0F13 ཨྵ TIBETAN MARK CARET -DZUD RTAGS ME LONG CAN

0F14 ཨྵ TIBETAN MARK GTER TSHEG  
• used as a comma-like text delimiter  
→ 17D6 ཨྵ khmer sign camnuc pii kuuh**Astrological signs**

0F15 ཨྵ TIBETAN LOGOTYPE SIGN CHAD RTAGS

0F16 ཨྵ TIBETAN LOGOTYPE SIGN LHAG RTAGS

0F17 ཨྵ TIBETAN ASTROLOGICAL SIGN SGRA GCAN -CHAR RTAGS

## Tibetan

0F18 ཨྵ TIBETAN ASTROLOGICAL SIGN -KHYUD PA

• combines with digits

0F19 ཨྵ TIBETAN ASTROLOGICAL SIGN SDONG TSHUGS

• combines with digits

0F1A ཨྵ TIBETAN SIGN RDEL DKAR GCIG

0F1B ཨྵ TIBETAN SIGN RDEL DKAR GNYIS

0F1C ཨྵ TIBETAN SIGN RDEL DKAR GSUM

0F1D ཨྵ TIBETAN SIGN RDEL NAG GCIG

0F1E ཨྵ TIBETAN SIGN RDEL NAG GNYIS

0F1F ཨྵ TIBETAN SIGN RDEL DKAR RDEL NAG

**Digits**

0F20 ཨྵ TIBETAN DIGIT ZERO

0F21 ཨྵ TIBETAN DIGIT ONE

0F22 ཨྵ TIBETAN DIGIT TWO

0F23 ཨྵ TIBETAN DIGIT THREE

0F24 ཨྵ TIBETAN DIGIT FOUR

0F25 ཨྵ TIBETAN DIGIT FIVE

0F26 ཨྵ TIBETAN DIGIT SIX

0F27 ཨྵ TIBETAN DIGIT SEVEN

0F28 ཨྵ TIBETAN DIGIT EIGHT

0F29 ཨྵ TIBETAN DIGIT NINE

**Digits minus half**

0F2A ཨྵ TIBETAN DIGIT HALF ONE

0F2B ཨྵ TIBETAN DIGIT HALF TWO

0F2C ཨྵ TIBETAN DIGIT HALF THREE

0F2D ཨྵ TIBETAN DIGIT HALF FOUR

0F2E ཨྵ TIBETAN DIGIT HALF FIVE

0F2F ཨྵ TIBETAN DIGIT HALF SIX

0F30 ཨྵ TIBETAN DIGIT HALF SEVEN

0F31 ཨྵ TIBETAN DIGIT HALF EIGHT

0F32 ཨྵ TIBETAN DIGIT HALF NINE

0F33 ཨྵ TIBETAN DIGIT HALF ZERO

**Marks and signs**0F34 ཨྵ TIBETAN MARK BSDUS RTAGS  
• repetition0F35 ཨྵ TIBETAN MARK NGAS BZUNG NYI ZLA  
• honorific, emphasis; used like underlining0F36 ཨྵ TIBETAN MARK CARET -DZUD RTAGS BZHI MIG CAN  
• marks point of text insertion or annotation0F37 ཨྵ TIBETAN MARK NGAS BZUNG SGOR RTAGS  
• emphasis; used like underlining

0F38 ཨྵ TIBETAN MARK CHE MGO

0F39 ཨྵ TIBETAN MARK TSA -PHRU  
• a lenition mark**Paired punctuation**

0F3A ཨྵ TIBETAN MARK GUG RTAGS GYON

0F3B ཨྵ TIBETAN MARK GUG RTAGS GYAS  
• brackets

0F3C ཨྵ TIBETAN MARK ANG KHANG GYON

0F3D ཨྵ TIBETAN MARK ANG KHANG GYAS  
• used for bracketing with a roof over**Astrological signs**

0F3E ཨྵ TIBETAN SIGN YAR TSHES

0F3F ཨྵ TIBETAN SIGN MAR TSHES  
• marks which combine with digits

## 0F3F

**Consonants**

0F40	ཀ	TIBETAN LETTER KA
0F41	ཁ	TIBETAN LETTER KHA
0F42	ག	TIBETAN LETTER GA
0F43	ཁྱ	TIBETAN LETTER GHA ≡ 0F42 ག 0FB7 གྱ
0F44	ང	TIBETAN LETTER NGA
0F45	ཅ	TIBETAN LETTER CA
0F46	ཆ	TIBETAN LETTER CHA
0F47	ཇ	TIBETAN LETTER JA
0F48	◻	<reserved>
0F49	ཉ	TIBETAN LETTER NYA
0F4A	ཊ	TIBETAN LETTER TTA
0F4B	ཋ	TIBETAN LETTER TTHA
0F4C	ཌ	TIBETAN LETTER DDA
0F4D	ཌྱ	TIBETAN LETTER DDHA ≡ 0F4C ཌ 0FB7 ཌྱ
0F4E	ཎ	TIBETAN LETTER NNA
0F4F	ཏ	TIBETAN LETTER TA
0F50	ཐ	TIBETAN LETTER THA
0F51	ད	TIBETAN LETTER DA
0F52	དྱ	TIBETAN LETTER DHA ≡ 0F51 ད 0FB7 དྱ
0F53	ན	TIBETAN LETTER NA
0F54	པ	TIBETAN LETTER PA
0F55	ཕ	TIBETAN LETTER PHA
0F56	བ	TIBETAN LETTER BA
0F57	བྱ	TIBETAN LETTER BHA ≡ 0F56 བ 0FB7 བྱ
0F58	མ	TIBETAN LETTER MA
0F59	ཙ	TIBETAN LETTER TSA
0F5A	ཛ	TIBETAN LETTER TSHA
0F5B	ཌ	TIBETAN LETTER DZA
0F5C	ཌྱ	TIBETAN LETTER DZHA ≡ 0F5B ཌ 0FB7 ཌྱ
0F5D	ཞ	TIBETAN LETTER WA
0F5E	ཟ	TIBETAN LETTER ZHA
0F5F	འ	TIBETAN LETTER ZA
0F60	ར	TIBETAN LETTER -A
0F61	ཡ	TIBETAN LETTER YA
0F62	རྩ	TIBETAN LETTER RA • when followed by a subjoined letter = ra mgo
0F63	ལ	TIBETAN LETTER LA
0F64	ཤ	TIBETAN LETTER SHA
0F65	ཥ	TIBETAN LETTER SSA = reversed sha
0F66	ས	TIBETAN LETTER SA
0F67	ཧ	TIBETAN LETTER HA
0F68	ཨ	TIBETAN LETTER A • base for dependent vowels
0F69	ཀྱ	TIBETAN LETTER KSSA ≡ 0F40 ཀ 0FB5 ཀྱ
0F6A	རྩ	TIBETAN LETTER FIXED-FORM RA • fixed-form letter not showing the shape variation of the ordinary ra • used only in transliteration and transcription → 0F62 རྩ tibetan letter ra

**Extensions for Balti**

0F6B	ཾ	TIBETAN LETTER KKA
0F6C	ཾྱ	TIBETAN LETTER RRA

**Dependent vowel signs**

0F71	ཱ	TIBETAN VOWEL SIGN AA = a-chung • common, vowel-lengthening mark
0F72	ཱཱ	TIBETAN VOWEL SIGN I
0F73	ཱཱཱ	TIBETAN VOWEL SIGN II • use of this character is discouraged ≡ 0F71 ཱ 0F72 ཱཱ
0F74	ཱཱཱཱ	TIBETAN VOWEL SIGN U
0F75	ཱཱཱཱཱ	TIBETAN VOWEL SIGN UU • use of this character is discouraged ≡ 0F71 ཱ 0F74 ཱཱ
0F76	ཱཱཱཱཱཱ	TIBETAN VOWEL SIGN VOCALIC R ≡ 0FB2 ཱ 0F80 ཱཱ
0F77	ཱཱཱཱཱཱཱ	TIBETAN VOWEL SIGN VOCALIC RR • this character is deprecated and its use is strongly discouraged ≈ 0FB2 ཱ 0F81 ཱཱ
0F78	ཱཱཱཱཱཱཱཱ	TIBETAN VOWEL SIGN VOCALIC L ≡ 0FB3 ཱ 0F80 ཱཱ
0F79	ཱཱཱཱཱཱཱཱཱ	TIBETAN VOWEL SIGN VOCALIC LL • this character is deprecated and its use is strongly discouraged ≈ 0FB3 ཱ 0F81 ཱཱ
0F7A	ཱཱཱཱཱཱཱཱཱཱ	TIBETAN VOWEL SIGN E
0F7B	ཱཱཱཱཱཱཱཱཱཱཱ	TIBETAN VOWEL SIGN EE
0F7C	ཱཱཱཱཱཱཱཱཱཱཱཱ	TIBETAN VOWEL SIGN O
0F7D	ཱཱཱཱཱཱཱཱཱཱཱཱཱ	TIBETAN VOWEL SIGN OO

**Vocalic modification**

0F7E	ཱཱཱཱཱཱཱཱཱཱཱཱཱ	TIBETAN SIGN RJES SU NGA RO = anusvara
0F7F	ཱཱཱཱཱཱཱཱཱཱཱཱཱཱ	TIBETAN SIGN RNAM BCAD = visarga

**Dependent vowel signs**

0F80	ཱཱཱཱཱཱཱཱཱཱཱཱཱཱ	TIBETAN VOWEL SIGN REVERSED I
0F81	ཱཱཱཱཱཱཱཱཱཱཱཱཱཱཱ	TIBETAN VOWEL SIGN REVERSED II • use of this character is discouraged ≡ 0F71 ཱ 0F80 ཱཱ

**Marks and signs**

0F82	ཱཱཱཱཱཱཱཱཱཱཱཱཱཱ	TIBETAN SIGN NYI ZLA NAA DA
0F83	ཱཱཱཱཱཱཱཱཱཱཱཱཱཱ	TIBETAN SIGN SNA LDAN → 0901 ཱ devanagari sign candrabindu
0F84	ཱཱཱཱཱཱཱཱཱཱཱཱཱཱ	TIBETAN MARK HALANTA = srog med → 094D ཱ devanagari sign virama
0F85	ཱཱཱཱཱཱཱཱཱཱཱཱཱཱ	TIBETAN MARK PALUTA • transliteration of Sanskrit avagraha → 093D ཱ devanagari sign avagraha
0F86	ཱཱཱཱཱཱཱཱཱཱཱཱཱཱ	TIBETAN SIGN LCI RTAGS
0F87	ཱཱཱཱཱཱཱཱཱཱཱཱཱཱ	TIBETAN SIGN YANG RTAGS

## 0F88

**Transliteration head letters**

0F88	ཨ	TIBETAN SIGN LCE TSA CAN → 0CF1 ཨ kannada sign jihvamuliya → 1882 ཨ mongolian letter ali gali damaru
0F89	ཨ	TIBETAN SIGN MCHU CAN → 0CF2 ཨ kannada sign upadhmaniya → 1884 ཨ mongolian letter ali gali inverted ubadama
0F8A	ཨ	TIBETAN SIGN GRU CAN RGYINGS • always followed by 0F82 ཨ
0F8B	ཨ	TIBETAN SIGN GRU MED RGYINGS
0F8C	ཨ	TIBETAN SIGN INVERTED MCHU CAN

**Transliteration subjoined signs**

0F8D	ཨ	TIBETAN SUBJOINED SIGN LCE TSA CAN
0F8E	ཨ	TIBETAN SUBJOINED SIGN MCHU CAN
0F8F	ཨ	TIBETAN SUBJOINED SIGN INVERTED MCHU CAN

**Subjoined consonants**

The subjoined letters for WA, YA, and RA appear in both full and short forms. The short forms, wa.zur, ya-btags, and ra-btags, respectively, are most common and are the forms shown in the charts.

0F90	ཨ	TIBETAN SUBJOINED LETTER KA
0F91	ཨ	TIBETAN SUBJOINED LETTER KHA
0F92	ཨ	TIBETAN SUBJOINED LETTER GA
0F93	ཨ	TIBETAN SUBJOINED LETTER GHA ≡ 0F92 ཨ 0FB7 ཨ
0F94	ཨ	TIBETAN SUBJOINED LETTER NGA
0F95	ཨ	TIBETAN SUBJOINED LETTER CA
0F96	ཨ	TIBETAN SUBJOINED LETTER CHA
0F97	ཨ	TIBETAN SUBJOINED LETTER JA
0F98	ཨ	<reserved>
0F99	ཨ	TIBETAN SUBJOINED LETTER NYA
0F9A	ཨ	TIBETAN SUBJOINED LETTER TTA
0F9B	ཨ	TIBETAN SUBJOINED LETTER TTHA
0F9C	ཨ	TIBETAN SUBJOINED LETTER DDA
0F9D	ཨ	TIBETAN SUBJOINED LETTER DDHA ≡ 0F9C ཨ 0FB7 ཨ
0F9E	ཨ	TIBETAN SUBJOINED LETTER NNA
0F9F	ཨ	TIBETAN SUBJOINED LETTER TA
0FA0	ཨ	TIBETAN SUBJOINED LETTER THA
0FA1	ཨ	TIBETAN SUBJOINED LETTER DA
0FA2	ཨ	TIBETAN SUBJOINED LETTER DHA ≡ 0FA1 ཨ 0FB7 ཨ
0FA3	ཨ	TIBETAN SUBJOINED LETTER NA
0FA4	ཨ	TIBETAN SUBJOINED LETTER PA
0FA5	ཨ	TIBETAN SUBJOINED LETTER PHA
0FA6	ཨ	TIBETAN SUBJOINED LETTER BA
0FA7	ཨ	TIBETAN SUBJOINED LETTER BHA ≡ 0FA6 ཨ 0FB7 ཨ
0FA8	ཨ	TIBETAN SUBJOINED LETTER MA
0FA9	ཨ	TIBETAN SUBJOINED LETTER TSA
0FAA	ཨ	TIBETAN SUBJOINED LETTER TSHA
0FAB	ཨ	TIBETAN SUBJOINED LETTER DZA
0FAC	ཨ	TIBETAN SUBJOINED LETTER DZHA ≡ 0FAB ཨ 0FB7 ཨ
0FAD	ཨ	TIBETAN SUBJOINED LETTER WA = wa-zur, wa-btags (wa ta)

## Tibetan

## 0FCC

0FAE	ཨ	TIBETAN SUBJOINED LETTER ZHA
0FAF	ཨ	TIBETAN SUBJOINED LETTER ZA
0FB0	ཨ	TIBETAN SUBJOINED LETTER -A = a-chung • rare, only used for full-sized subjoined letter → 0F71 ཨ tibetan vowel sign aa
0FB1	ཨ	TIBETAN SUBJOINED LETTER YA = ya-btags (ya ta)
0FB2	ཨ	TIBETAN SUBJOINED LETTER RA = ra-btags (ra ta)
0FB3	ཨ	TIBETAN SUBJOINED LETTER LA
0FB4	ཨ	TIBETAN SUBJOINED LETTER SHA
0FB5	ཨ	TIBETAN SUBJOINED LETTER SSA = reversed subjoined sha
0FB6	ཨ	TIBETAN SUBJOINED LETTER SA
0FB7	ཨ	TIBETAN SUBJOINED LETTER HA
0FB8	ཨ	TIBETAN SUBJOINED LETTER A
0FB9	ཨ	TIBETAN SUBJOINED LETTER KSSA ≡ 0F90 ཨ 0FB5 ཨ

**Fixed-form subjoined consonants**

These characters are used only for transliteration and transcription.

0FBA	ཨ	TIBETAN SUBJOINED LETTER FIXED-FORM WA
0FBB	ཨ	TIBETAN SUBJOINED LETTER FIXED-FORM YA
0FBC	ཨ	TIBETAN SUBJOINED LETTER FIXED-FORM RA

**Signs**

0FBE	×	TIBETAN KU RU KHA • often repeated three times; indicates a refrain
0FBF	✱	TIBETAN KU RU KHA BZHI MIG CAN • marks point of text insertion or annotation → 203B ✱ reference mark

**Cantillation signs**

0FC0	○	TIBETAN CANTILLATION SIGN HEAVY BEAT • marks a heavy drum beat
0FC1	○	TIBETAN CANTILLATION SIGN LIGHT BEAT • marks a light drum beat
0FC2	◉	TIBETAN CANTILLATION SIGN CANG TE-U • symbol of a small Tibetan hand drum
0FC3	◉	TIBETAN CANTILLATION SIGN SBUB -CHAL • symbol of a Tibetan cymbal

**Symbols**

0FC4	△	TIBETAN SYMBOL DRIL BU • symbol of a Tibetan hand bell
0FC5	卐	TIBETAN SYMBOL RDO RJE
0FC6	卐	TIBETAN SYMBOL PADMA GDAN
0FC7	卐	TIBETAN SYMBOL RDO RJE RGYA GRAM
0FC8	卐	TIBETAN SYMBOL PHUR PA
0FC9	卐	TIBETAN SYMBOL NOR BU
0FCA	卐	TIBETAN SYMBOL NOR BU NYIS -KHYIL • the double body symbol → 262F ☯ yin yang
0FCB	卐	TIBETAN SYMBOL NOR BU GSUM -KHYIL • the tri-kaya or triple body symbol
0FCC	卐	TIBETAN SYMBOL NOR BU BZHI -KHYIL • the quadruple body symbol, a form of the svasti sign → 0FD6 ༄ left-facing svasti sign

**Astrological signs**

- 0FCE ✎ TIBETAN SIGN RDEL NAG RDEL DKAR  
= dena deka  
• signifies good luck earlier, bad luck later
- 0FCF ✎ TIBETAN SIGN RDEL NAG GSUM

**Marks**

- 0FD0 ༄ TIBETAN MARK BSKA- SHOG GI MGO RGYAN  
✕ TIBETAN MARK BKA- SHOG GI MGO RGYAN  
• used in Bhutan
- 0FD1 ༅ TIBETAN MARK MNYAM YIG GI MGO RGYAN  
• used in Bhutan
- 0FD2 ༆ TIBETAN MARK NYIS TSHEG  
= nyi tsek

**Head marks**

- 0FD3 ༐ TIBETAN MARK INITIAL BRDA RNYING YIG MGO MDUN MA  
= da nying yik go dun ma
- 0FD4 ༑ TIBETAN MARK CLOSING BRDA RNYING YIG MGO SGAB MA  
= da nying yik go kab ma

**Religious symbols**

- 0FD5 ༐ RIGHT-FACING SVASTI SIGN  
= gyung drung nang -khor  
• symbol of good luck and well-being in India  
→ 5350 ༐
- 0FD6 ༑ LEFT-FACING SVASTI SIGN  
= gyung drung phyi -khor  
→ 5340 ༑
- 0FD7 ༐ RIGHT-FACING SVASTI SIGN WITH DOTS  
= gyung drung nang -khor bzhi mig can
- 0FD8 ༑ LEFT-FACING SVASTI SIGN WITH DOTS  
= gyung drung phyi -khor bzhi mig can

**Annotation marks**

- 0FD9 ༐ TIBETAN MARK LEADING MCHAN RTAGS
- 0FDA ༐ TIBETAN MARK TRAILING MCHAN RTAGS

	100	101	102	103	104	105	106	107	108	109
0	က 1000	တ 1010	င 1020	ု 1030	ဝ 1040	ရ 1050	ှ 1060	ယ 1070	ဆ 1080	ဝ 1090
1	ခ 1001	ထ 1011	အ 1021	ေ 1031	င 1041	ဖ 1051	ရ 1061	ိ 1071	ှ 1081	၁ 1091
2	ဂ 1002	ဒ 1012	က 1022	ဲ 1032	၂ 1042	ဗ 1052	ာ 1062	ိ 1072	ွ 1082	၃ 1092
3	ဃ 1003	မ 1013	ဒိ 1023	ိ 1033	၃ 1043	ဗ 1053	ှ 1063	ိ 1073	၁ 1083	၂ 1093
4	င 1004	န 1014	ြ 1024	် 1034	၄ 1044	ဇ 1054	ာ 1064	ိ 1074	ေ 1084	၂ 1094
5	စ 1005	ပ 1015	ဇ 1025	ိ 1035	၅ 1045	ဇ 1055	င 1065	ိ 1075	ိ 1085	၂ 1095
6	ဆ 1006	ဖ 1016	ဇ 1026	ိ 1036	၆ 1046	ာ 1056	ှ 1066	ိ 1076	ိ 1086	၃ 1096
7	ဇ 1007	ပ 1017	ဇ 1027	ိ 1037	၇ 1047	ာ 1057	ာ 1067	ိ 1077	ိ 1087	၃ 1097
8	ဈ 1008	ဘ 1018	ဇ 1028	ိ 1038	၈ 1048	ာ 1058	ာ 1068	ိ 1078	ိ 1088	၃ 1098
9	ည 1009	မ 1019	ြ 1029	ိ 1039	၉ 1049	ာ 1059	ာ 1069	ိ 1079	ိ 1089	၃ 1099
A	ည 100A	ယ 101A	ြ 102A	ိ 103A	၁ 104A	ာ 105A	ာ 106A	ိ 107A	ိ 108A	ိ 109A
B	ဋ 100B	ရ 101B	ိ 102B	ိ 103B	၂ 104B	ာ 105B	ာ 106B	ိ 107B	ိ 108B	ိ 109B
C	ဌ 100C	လ 101C	ိ 102C	ိ 103C	၃ 104C	ာ 105C	ာ 106C	ိ 107C	ိ 108C	ိ 109C
D	ဍ 100D	ဝ 101D	ိ 102D	ိ 103D	၄ 104D	ာ 105D	ာ 106D	ိ 107D	ိ 108D	ိ 109D
E	ဎ 100E	သ 101E	ိ 102E	ိ 103E	၅ 104E	ာ 105E	ာ 106E	ိ 107E	ိ 108E	ိ 109E
F	ဏ 100F	ဟ 101F	ိ 102F	ိ 103F	၆ 104F	ာ 105F	ာ 106F	ိ 107F	ိ 108F	ိ 109F

**Consonants**

1000	က	MYANMAR LETTER KA
1001	ခ	MYANMAR LETTER KHA
1002	ဂ	MYANMAR LETTER GA
1003	ဃ	MYANMAR LETTER GHA
1004	င	MYANMAR LETTER NGA
1005	စ	MYANMAR LETTER CA
1006	ဆ	MYANMAR LETTER CHA
1007	ဇ	MYANMAR LETTER JA
1008	ဈ	MYANMAR LETTER JHA
1009	ည	MYANMAR LETTER NYA
100A	ဋ	MYANMAR LETTER NNYA
100B	တ	MYANMAR LETTER TTA
100C	ထ	MYANMAR LETTER TTHA
100D	ဒ	MYANMAR LETTER DDA
100E	ဌ	MYANMAR LETTER DDHA
100F	န	MYANMAR LETTER NNA
1010	တ	MYANMAR LETTER TA
1011	ထ	MYANMAR LETTER THA
1012	ဒ	MYANMAR LETTER DA
1013	ဓ	MYANMAR LETTER DHA
1014	န	MYANMAR LETTER NA
1015	ပ	MYANMAR LETTER PA
1016	ဖ	MYANMAR LETTER PHA
1017	ဘ	MYANMAR LETTER BA
1018	ပ	MYANMAR LETTER BHA
1019	မ	MYANMAR LETTER MA
101A	ယ	MYANMAR LETTER YA
101B	ရ	MYANMAR LETTER RA
101C	လ	MYANMAR LETTER LA
101D	ဝ	MYANMAR LETTER WA
101E	သ	MYANMAR LETTER SA
101F	ဟ	MYANMAR LETTER HA
1020	ဠ	MYANMAR LETTER LLA

**Independent vowels**

1021	အ	MYANMAR LETTER A • also represents the glottal stop as a consonant
1022	ဣ	MYANMAR LETTER SHAN A
1023	ဩ	MYANMAR LETTER I
1024	ဪ	MYANMAR LETTER II
1025	ဥ	MYANMAR LETTER U
1026	ဦ	MYANMAR LETTER UU ≡ 1025 ဥ 102E ဦ
1027	ဧ	MYANMAR LETTER E
1028	ဨ	MYANMAR LETTER MON E
1029	ဩ	MYANMAR LETTER O
102A	ဪ	MYANMAR LETTER AU

**Dependent vowel signs**

102B	ါ	MYANMAR VOWEL SIGN TALL AA
102C	ာ	MYANMAR VOWEL SIGN AA
102D	ိ	MYANMAR VOWEL SIGN I
102E	ီ	MYANMAR VOWEL SIGN II
102F	ု	MYANMAR VOWEL SIGN U
1030	ူ	MYANMAR VOWEL SIGN UU
1031	ေ	MYANMAR VOWEL SIGN E • stands to the left of the consonant
1032	ဲ	MYANMAR VOWEL SIGN AI
1033	့	MYANMAR VOWEL SIGN MON II

1034	္	MYANMAR VOWEL SIGN MON O
1035	့	MYANMAR VOWEL SIGN E ABOVE

**Various signs**

1036	္	MYANMAR SIGN ANUSVARA
1037	့	MYANMAR SIGN DOT BELOW = aukmyit • a tone mark
1038	္	MYANMAR SIGN VISARGA
1039	္	MYANMAR SIGN VIRAMA = killer (when rendered visibly)
103A	္	MYANMAR SIGN ASAT = killer (always rendered visibly)

**Dependent consonant signs**

103B	္	MYANMAR CONSONANT SIGN MEDIAL YA
103C	္	MYANMAR CONSONANT SIGN MEDIAL RA
103D	္	MYANMAR CONSONANT SIGN MEDIAL WA
103E	္	MYANMAR CONSONANT SIGN MEDIAL HA

**Consonant**

103F	သ	MYANMAR LETTER GREAT SA
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**Digits**

1040	၀	MYANMAR DIGIT ZERO
1041	၁	MYANMAR DIGIT ONE
1042	၂	MYANMAR DIGIT TWO
1043	၃	MYANMAR DIGIT THREE
1044	၄	MYANMAR DIGIT FOUR
1045	၅	MYANMAR DIGIT FIVE
1046	၆	MYANMAR DIGIT SIX
1047	၇	MYANMAR DIGIT SEVEN
1048	၈	MYANMAR DIGIT EIGHT
1049	၉	MYANMAR DIGIT NINE

**Punctuation**

104A	၊	MYANMAR SIGN LITTLE SECTION → 0964 I devanagari danda
104B	။	MYANMAR SIGN SECTION → 0965 II devanagari double danda

**Various signs**

104C	္	MYANMAR SYMBOL LOCATIVE
104D	္	MYANMAR SYMBOL COMPLETED
104E	္	MYANMAR SYMBOL AFOREMENTIONED
104F	္	MYANMAR SYMBOL GENITIVE

**Pali and Sanskrit extensions**

1050	ဓ	MYANMAR LETTER SHA
1051	ဓ	MYANMAR LETTER SSA
1052	ဣ	MYANMAR LETTER VOCALIC R
1053	ဣ	MYANMAR LETTER VOCALIC RR
1054	ဧ	MYANMAR LETTER VOCALIC L
1055	ဧ	MYANMAR LETTER VOCALIC LL
1056	ဩ	MYANMAR VOWEL SIGN VOCALIC R
1057	ဩ	MYANMAR VOWEL SIGN VOCALIC RR
1058	ဩ	MYANMAR VOWEL SIGN VOCALIC L
1059	ဩ	MYANMAR VOWEL SIGN VOCALIC LL

**Extensions for Mon**

105A	င	MYANMAR LETTER MON NGA
105B	ဈ	MYANMAR LETTER MON JHA
105C	ဓ	MYANMAR LETTER MON BBA

105D

Myanmar

109F

105D	၂	MYANMAR LETTER MON BBE
105E	၂	MYANMAR CONSONANT SIGN MON MEDIAL NA
105F	၂	MYANMAR CONSONANT SIGN MON MEDIAL MA
1060	၂	MYANMAR CONSONANT SIGN MON MEDIAL LA

**Extensions for S'gaw Karen**

1061	၂	MYANMAR LETTER SGAW KAREN SHA
1062	၂	MYANMAR VOWEL SIGN SGAW KAREN EU
1063	၂	MYANMAR TONE MARK SGAW KAREN HATHI
1064	၂	MYANMAR TONE MARK SGAW KAREN KE PHO

**Extensions for Western Pwo Karen**

1065	၂	MYANMAR LETTER WESTERN PWO KAREN THA
1066	၂	MYANMAR LETTER WESTERN PWO KAREN PWA
1067	၂	MYANMAR VOWEL SIGN WESTERN PWO KAREN EU
1068	၂	MYANMAR VOWEL SIGN WESTERN PWO KAREN UE
1069	၂	MYANMAR SIGN WESTERN PWO KAREN TONE-1
106A	၂	MYANMAR SIGN WESTERN PWO KAREN TONE-2
106B	၂	MYANMAR SIGN WESTERN PWO KAREN TONE-3
106C	၂	MYANMAR SIGN WESTERN PWO KAREN TONE-4
106D	၂	MYANMAR SIGN WESTERN PWO KAREN TONE-5

**Extensions for Eastern Pwo Karen**

106E	၂	MYANMAR LETTER EASTERN PWO KAREN NNA
106F	၂	MYANMAR LETTER EASTERN PWO KAREN YWA
1070	၂	MYANMAR LETTER EASTERN PWO KAREN GHWA

**Extension for Geba Karen**

1071	၂	MYANMAR VOWEL SIGN GEBAR KAREN I
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**Extensions for Kayah**

1072	၂	MYANMAR VOWEL SIGN KAYAH OE
1073	၂	MYANMAR VOWEL SIGN KAYAH U
1074	၂	MYANMAR VOWEL SIGN KAYAH EE

**Extensions for Shan**

1075	၂	MYANMAR LETTER SHAN KA
1076	၂	MYANMAR LETTER SHAN KHA
1077	၂	MYANMAR LETTER SHAN GA
1078	၂	MYANMAR LETTER SHAN CA
1079	၂	MYANMAR LETTER SHAN ZA
107A	၂	MYANMAR LETTER SHAN NYA
107B	၂	MYANMAR LETTER SHAN DA
107C	၂	MYANMAR LETTER SHAN NA
107D	၂	MYANMAR LETTER SHAN PHA
107E	၂	MYANMAR LETTER SHAN FA
107F	၂	MYANMAR LETTER SHAN BA
1080	၂	MYANMAR LETTER SHAN THA
1081	၂	MYANMAR LETTER SHAN HA
1082	၂	MYANMAR CONSONANT SIGN SHAN MEDIAL WA
1083	၂	MYANMAR VOWEL SIGN SHAN AA
1084	၂	MYANMAR VOWEL SIGN SHAN E
1085	၂	MYANMAR VOWEL SIGN SHAN E ABOVE
1086	၂	MYANMAR VOWEL SIGN SHAN FINAL Y
1087	၂	MYANMAR SIGN SHAN TONE-2
1088	၂	MYANMAR SIGN SHAN TONE-3
1089	၂	MYANMAR SIGN SHAN TONE-5

108A	၂	MYANMAR SIGN SHAN TONE-6
108B	၂	MYANMAR SIGN SHAN COUNCIL TONE-2
108C	၂	MYANMAR SIGN SHAN COUNCIL TONE-3
108D	၂	MYANMAR SIGN SHAN COUNCIL EMPHATIC TONE

**Extensions for Rumai Palaung**

108E	၂	MYANMAR LETTER RUMAI PALAUNG FA
108F	၂	MYANMAR SIGN RUMAI PALAUNG TONE-5

**Shan digits**

1090	၂	MYANMAR SHAN DIGIT ZERO
1091	၂	MYANMAR SHAN DIGIT ONE
1092	၂	MYANMAR SHAN DIGIT TWO
1093	၂	MYANMAR SHAN DIGIT THREE
1094	၂	MYANMAR SHAN DIGIT FOUR
1095	၂	MYANMAR SHAN DIGIT FIVE
1096	၂	MYANMAR SHAN DIGIT SIX
1097	၂	MYANMAR SHAN DIGIT SEVEN
1098	၂	MYANMAR SHAN DIGIT EIGHT
1099	၂	MYANMAR SHAN DIGIT NINE

**Extensions for Khamti Shan**

109A	၂	MYANMAR SIGN KHAMTI TONE-1
109B	၂	MYANMAR SIGN KHAMTI TONE-3

**Extensions for Aiton and Phake**

109C	၂	MYANMAR VOWEL SIGN AITON A
109D	၂	MYANMAR VOWEL SIGN AITON AI

**Shan symbols**

109E	၂	MYANMAR SYMBOL SHAN ONE
109F	၂	MYANMAR SYMBOL SHAN EXCLAMATION

	10A	10B	10C	10D	10E	10F
0	Ⴊ 10A0	Ⴋ 10B0	Ⴌ 10C0	Ⴍ 10D0	Ⴎ 10E0	Ⴏ 10F0
1	Ⴐ 10A1	Ⴑ 10B1	Ⴒ 10C1	Ⴓ 10D1	Ⴔ 10E1	Ⴕ 10F1
2	Ⴗ 10A2	Ⴘ 10B2	Ⴙ 10C2	Ⴚ 10D2	Ⴛ 10E2	Ⴜ 10F2
3	Ⴝ 10A3	Ⴞ 10B3	Ⴟ 10C3	Ⴟ 10D3	Ⴟ 10E3	Ⴟ 10F3
4	Ⴟ 10A4	Ⴟ 10B4	Ⴟ 10C4	Ⴟ 10D4	Ⴟ 10E4	Ⴟ 10F4
5	Ⴟ 10A5	Ⴟ 10B5	Ⴟ 10C5	Ⴟ 10D5	Ⴟ 10E5	Ⴟ 10F5
6	Ⴟ 10A6	Ⴟ 10B6		Ⴟ 10D6	Ⴟ 10E6	Ⴟ 10F6
7	Ⴟ 10A7	Ⴟ 10B7		Ⴟ 10D7	Ⴟ 10E7	Ⴟ 10F7
8	Ⴟ 10A8	Ⴟ 10B8		Ⴟ 10D8	Ⴟ 10E8	Ⴟ 10F8
9	Ⴟ 10A9	Ⴟ 10B9		Ⴟ 10D9	Ⴟ 10E9	Ⴟ 10F9
A	Ⴟ 10AA	Ⴟ 10BA		Ⴟ 10DA	Ⴟ 10EA	Ⴟ 10FA
B	Ⴟ 10AB	Ⴟ 10BB		Ⴟ 10DB	Ⴟ 10EB	Ⴟ 10FB
C	Ⴟ 10AC	Ⴟ 10BC		Ⴟ 10DC	Ⴟ 10EC	Ⴟ 10FC
D	Ⴟ 10AD	Ⴟ 10BD		Ⴟ 10DD	Ⴟ 10ED	
E	Ⴟ 10AE	Ⴟ 10BE		Ⴟ 10DE	Ⴟ 10EE	
F	Ⴟ 10AF	Ⴟ 10BF		Ⴟ 10DF	Ⴟ 10EF	



## 10A0

## Georgian

## 10FC

**Capital letters (Khutsuri)**

*This is the uppercase of the old ecclesiastical alphabet. The style shown in the code charts is known as Asomtavruli. See the Georgian Supplement block for lowercase Nuskhuri.*

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

**Mkhedruli**

*This is the modern secular alphabet, which is caseless.*

10D0	ა	GEORGIAN LETTER AN
10D1	ბ	GEORGIAN LETTER BAN
10D2	გ	GEORGIAN LETTER GAN
10D3	დ	GEORGIAN LETTER DON
10D4	ე	GEORGIAN LETTER EN
10D5	ვ	GEORGIAN LETTER VIN
10D6	ზ	GEORGIAN LETTER ZEN
10D7	თ	GEORGIAN LETTER TAN
10D8	ი	GEORGIAN LETTER IN
10D9	კ	GEORGIAN LETTER KAN
10DA	ლ	GEORGIAN LETTER LAS
10DB	მ	GEORGIAN LETTER MAN
10DC	ნ	GEORGIAN LETTER NAR
10DD	ო	GEORGIAN LETTER ON
10DE	პ	GEORGIAN LETTER PAR

10DF	ჟ	GEORGIAN LETTER ZHAR
10E0	რ	GEORGIAN LETTER RAE
10E1	ს	GEORGIAN LETTER SAN
10E2	ტ	GEORGIAN LETTER TAR
10E3	უ	GEORGIAN LETTER UN
10E4	ფ	GEORGIAN LETTER PHAR
10E5	ქ	GEORGIAN LETTER KHAR
10E6	ყ	GEORGIAN LETTER GHAN
10E7	ღ	GEORGIAN LETTER QAR
10E8	შ	GEORGIAN LETTER SHIN
10E9	ჩ	GEORGIAN LETTER CHIN
10EA	ც	GEORGIAN LETTER CAN
10EB	ძ	GEORGIAN LETTER JIL
10EC	წ	GEORGIAN LETTER CIL
10ED	ჭ	GEORGIAN LETTER CHAR
10EE	ხ	GEORGIAN LETTER XAN
10EF	ჯ	GEORGIAN LETTER JHAN
10F0	ჰ	GEORGIAN LETTER HAE

**Archaic letters**

10F1	Ⴀ	GEORGIAN LETTER HE
10F2	Ⴁ	GEORGIAN LETTER HIE
10F3	Ⴂ	GEORGIAN LETTER WE
10F4	Ⴃ	GEORGIAN LETTER HAR
10F5	Ⴄ	GEORGIAN LETTER HOE
10F6	Ⴅ	GEORGIAN LETTER FI

**Additional letters for Mingrelian and Svan**

10F7	ჲ	GEORGIAN LETTER YN
10F8	Ⴇ	GEORGIAN LETTER ELIFI

**Additional letters**

10F9	Ⴇ	GEORGIAN LETTER TURNED GAN
10FA	Ⴈ	GEORGIAN LETTER AIN

**Punctuation**

10FB	⋯	GEORGIAN PARAGRAPH SEPARATOR
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**Modifier letter**

10FC	Ლ	MODIFIER LETTER GEORGIAN NAR
		≈ <super> 10DC 6

	110	111	112	113	114	115	116	117	118	119	11A	11B	11C	11D	11E	11F
0	ㄱ 1100	ㅋ 1110	ㆁ 1120	ㄴ 1130	ㄷ 1140	ㄹ 1150	ㅁ 1160	ㅂ 1170	ㅅ 1180	ㅇ 1190	ㅊ 11A0	ㄷ 11B0	ㅌ 11C0	ㄴ 11D0	ㅍ 11E0	ㅇ 11F0
1	ㄱ 1101	ㅋ 1111	ㆁ 1121	ㄴ 1131	ㄷ 1141	ㄹ 1151	ㅁ 1161	ㅂ 1171	ㅅ 1181	ㅇ 1191	ㅊ 11A1	ㄷ 11B1	ㅌ 11C1	ㄴ 11D1	ㅍ 11E1	ㅇ 11F1
2	ㄱ 1102	ㅋ 1112	ㆁ 1122	ㄴ 1132	ㄷ 1142	ㄹ 1152	ㅁ 1162	ㅂ 1172	ㅅ 1182	ㅇ 1192	ㅊ 11A2	ㄷ 11B2	ㅌ 11C2	ㄴ 11D2	ㅍ 11E2	ㅇ 11F2
3	ㄱ 1103	ㅋ 1113	ㆁ 1123	ㄴ 1133	ㄷ 1143	ㄹ 1153	ㅁ 1163	ㅂ 1173	ㅅ 1183	ㅇ 1193	ㅊ 11A3	ㄷ 11B3	ㅌ 11C3	ㄴ 11D3	ㅍ 11E3	ㅇ 11F3
4	ㄱ 1104	ㅋ 1114	ㆁ 1124	ㄴ 1134	ㄷ 1144	ㄹ 1154	ㅁ 1164	ㅂ 1174	ㅅ 1184	ㅇ 1194	ㅊ 11A4	ㄷ 11B4	ㅌ 11C4	ㄴ 11D4	ㅍ 11E4	ㅇ 11F4
5	ㄱ 1105	ㅋ 1115	ㆁ 1125	ㄴ 1135	ㄷ 1145	ㄹ 1155	ㅁ 1165	ㅂ 1175	ㅅ 1185	ㅇ 1195	ㅊ 11A5	ㄷ 11B5	ㅌ 11C5	ㄴ 11D5	ㅍ 11E5	ㅇ 11F5
6	ㄱ 1106	ㅋ 1116	ㆁ 1126	ㄴ 1136	ㄷ 1146	ㄹ 1156	ㅁ 1166	ㅂ 1176	ㅅ 1186	ㅇ 1196	ㅊ 11A6	ㄷ 11B6	ㅌ 11C6	ㄴ 11D6	ㅍ 11E6	ㅇ 11F6
7	ㄱ 1107	ㅋ 1117	ㆁ 1127	ㄴ 1137	ㄷ 1147	ㄹ 1157	ㅁ 1167	ㅂ 1177	ㅅ 1187	ㅇ 1197	ㅊ 11A7	ㄷ 11B7	ㅌ 11C7	ㄴ 11D7	ㅍ 11E7	ㅇ 11F7
8	ㄱ 1108	ㅋ 1118	ㆁ 1128	ㄴ 1138	ㄷ 1148	ㄹ 1158	ㅁ 1168	ㅂ 1178	ㅅ 1188	ㅇ 1198	ㅊ 11A8	ㄷ 11B8	ㅌ 11C8	ㄴ 11D8	ㅍ 11E8	ㅇ 11F8
9	ㄱ 1109	ㅋ 1119	ㆁ 1129	ㄴ 1139	ㄷ 1149	ㄹ 1159	ㅁ 1169	ㅂ 1179	ㅅ 1189	ㅇ 1199	ㅊ 11A9	ㄷ 11B9	ㅌ 11C9	ㄴ 11D9	ㅍ 11E9	ㅇ 11F9
A	ㄱ 110A	ㅋ 111A	ㆁ 112A	ㄴ 113A	ㄷ 114A	ㄹ 115A	ㅁ 116A	ㅂ 117A	ㅅ 118A	ㅇ 119A	ㅊ 11AA	ㄷ 11BA	ㅌ 11CA	ㄴ 11DA	ㅍ 11EA	ㅇ 11FA
B	ㄱ 110B	ㅋ 111B	ㆁ 112B	ㄴ 113B	ㄷ 114B	ㄹ 115B	ㅁ 116B	ㅂ 117B	ㅅ 118B	ㅇ 119B	ㅊ 11AB	ㄷ 11BB	ㅌ 11CB	ㄴ 11DB	ㅍ 11EB	ㅇ 11FB
C	ㄱ 110C	ㅋ 111C	ㆁ 112C	ㄴ 113C	ㄷ 114C	ㄹ 115C	ㅁ 116C	ㅂ 117C	ㅅ 118C	ㅇ 119C	ㅊ 11AC	ㄷ 11BC	ㅌ 11CC	ㄴ 11DC	ㅍ 11EC	ㅇ 11FC
D	ㄱ 110D	ㅋ 111D	ㆁ 112D	ㄴ 113D	ㄷ 114D	ㄹ 115D	ㅁ 116D	ㅂ 117D	ㅅ 118D	ㅇ 119D	ㅊ 11AD	ㄷ 11BD	ㅌ 11CD	ㄴ 11DD	ㅍ 11ED	ㅇ 11FD
E	ㄱ 110E	ㅋ 111E	ㆁ 112E	ㄴ 113E	ㄷ 114E	ㄹ 115E	ㅁ 116E	ㅂ 117E	ㅅ 118E	ㅇ 119E	ㅊ 11AE	ㄷ 11BE	ㅌ 11CE	ㄴ 11DE	ㅍ 11EE	ㅇ 11FE
F	ㄱ 110F	ㅋ 111F	ㆁ 112F	ㄴ 113F	ㄷ 114F	ㄹ 115F	ㅁ 116F	ㅂ 117F	ㅅ 118F	ㅇ 119F	ㅊ 11AF	ㄷ 11BF	ㅌ 11CF	ㄴ 11DF	ㅍ 11EF	ㅇ 11FF

The aliases in this block represent the Jamo short names.

**Initial consonants**

1100	ㄱ	HANGUL CHOSEONG KIYEOK = G
1101	ㄲ	HANGUL CHOSEONG SSANGKIYEOK = GG
1102	ㄴ	HANGUL CHOSEONG NIEUN = N
1103	ㄷ	HANGUL CHOSEONG TKEUT = D
1104	ㄸ	HANGUL CHOSEONG SSANGTKEUT = DD
1105	ㄹ	HANGUL CHOSEONG RIEUL = R
1106	ㅁ	HANGUL CHOSEONG MIEUM = M
1107	ㅂ	HANGUL CHOSEONG PIEUP = B
1108	ㅃ	HANGUL CHOSEONG SSANGPIEUP = BB
1109	ㅅ	HANGUL CHOSEONG SIOS = S
110A	ㅆ	HANGUL CHOSEONG SSANGSIOS = SS
110B	ㅇ	HANGUL CHOSEONG IEUNG
110C	ㅈ	HANGUL CHOSEONG CIEUC = J
110D	ㅊ	HANGUL CHOSEONG SSANGCIEUC = JJ
110E	ㅊ	HANGUL CHOSEONG CHIEUCH = C
110F	ㅋ	HANGUL CHOSEONG KHIEUKH = K
1110	ㅌ	HANGUL CHOSEONG THIEUTH = T
1111	ㅍ	HANGUL CHOSEONG PHIEUPH = P
1112	ㅎ	HANGUL CHOSEONG HIEUH = H
1113	ㄴㅇ	HANGUL CHOSEONG NIEUN-KIYEOK
1114	ㄴㄴ	HANGUL CHOSEONG SSANGNIEUN
1115	ㄴㄷ	HANGUL CHOSEONG NIEUN-TKEUT
1116	ㄴㅂ	HANGUL CHOSEONG NIEUN-PIEUP
1117	ㄴㄷ	HANGUL CHOSEONG TKEUT-KIYEOK
1118	ㄴㄹ	HANGUL CHOSEONG RIEUL-NIEUN
1119	ㄴㄹ	HANGUL CHOSEONG SSANGRIEUL
111A	ㄴㄹ	HANGUL CHOSEONG RIEUL-HIEUH
111B	ㄴㅁ	HANGUL CHOSEONG KAPYEOUNRIEUL
111C	ㄴㅁ	HANGUL CHOSEONG MIEUM-PIEUP
111D	ㄴㅁ	HANGUL CHOSEONG KAPYEOUNMIEUM
111E	ㄴㅁ	HANGUL CHOSEONG PIEUP-KIYEOK
111F	ㄴㅁ	HANGUL CHOSEONG PIEUP-NIEUN
1120	ㄴㅁ	HANGUL CHOSEONG PIEUP-TKEUT
1121	ㄴㅁ	HANGUL CHOSEONG PIEUP-SIOS
1122	ㄴㅁ	HANGUL CHOSEONG PIEUP-SIOS-KIYEOK
1123	ㄴㅁ	HANGUL CHOSEONG PIEUP-SIOS-TKEUT
1124	ㄴㅁ	HANGUL CHOSEONG PIEUP-SIOS-PIEUP
1125	ㄴㅁ	HANGUL CHOSEONG PIEUP-SSANGSIOS
1126	ㄴㅁ	HANGUL CHOSEONG PIEUP-SIOS-CIEUC
1127	ㄴㅁ	HANGUL CHOSEONG PIEUP-CIEUC

1128	ㅁㅅ	HANGUL CHOSEONG PIEUP-CHIEUCH
1129	ㅁㅅ	HANGUL CHOSEONG PIEUP-THIEUTH
112A	ㅁㅅ	HANGUL CHOSEONG PIEUP-PHIEUPH
112B	ㅁㅅ	HANGUL CHOSEONG KAPYEOUNPIEUP
112C	ㅁㅅ	HANGUL CHOSEONG KAPYEOUNSSANGPIEUP
112D	ㅁㅅ	HANGUL CHOSEONG SIOS-KIYEOK
112E	ㅁㅅ	HANGUL CHOSEONG SIOS-NIEUN
112F	ㅁㅅ	HANGUL CHOSEONG SIOS-TKEUT
1130	ㅁㅅ	HANGUL CHOSEONG SIOS-RIEUL
1131	ㅁㅅ	HANGUL CHOSEONG SIOS-MIEUM
1132	ㅁㅅ	HANGUL CHOSEONG SIOS-PIEUP
1133	ㅁㅅ	HANGUL CHOSEONG SIOS-PIEUP-KIYEOK
1134	ㅁㅅ	HANGUL CHOSEONG SIOS-SSANGSIOS
1135	ㅁㅅ	HANGUL CHOSEONG SIOS-IEUNG
1136	ㅁㅅ	HANGUL CHOSEONG SIOS-CIEUC
1137	ㅁㅅ	HANGUL CHOSEONG SIOS-CHIEUCH
1138	ㅁㅅ	HANGUL CHOSEONG SIOS-KHIEUKH
1139	ㅁㅅ	HANGUL CHOSEONG SIOS-THIEUTH
113A	ㅁㅅ	HANGUL CHOSEONG SIOS-PHIEUPH
113B	ㅁㅅ	HANGUL CHOSEONG SIOS-HIEUH
113C	ㅁㅅ	HANGUL CHOSEONG CHITUEUMSIOS
113D	ㅁㅅ	HANGUL CHOSEONG CHITUEUMSSANGSIOS
113E	ㅁㅅ	HANGUL CHOSEONG CEONGCHIEUMSIOS
113F	ㅁㅅ	HANGUL CHOSEONG CEONGCHIEUMSSANGSIOS
1140	ㅁㅅ	HANGUL CHOSEONG PANSIOS
1141	ㅁㅅ	HANGUL CHOSEONG IEUNG-KIYEOK
1142	ㅁㅅ	HANGUL CHOSEONG IEUNG-TKEUT
1143	ㅁㅅ	HANGUL CHOSEONG IEUNG-MIEUM
1144	ㅁㅅ	HANGUL CHOSEONG IEUNG-PIEUP
1145	ㅁㅅ	HANGUL CHOSEONG IEUNG-SIOS
1146	ㅁㅅ	HANGUL CHOSEONG IEUNG-PANSIOS
1147	ㅁㅅ	HANGUL CHOSEONG SSANGIEUNG
1148	ㅁㅅ	HANGUL CHOSEONG IEUNG-CIEUC
1149	ㅁㅅ	HANGUL CHOSEONG IEUNG-CHIEUCH
114A	ㅁㅅ	HANGUL CHOSEONG IEUNG-THIEUTH
114B	ㅁㅅ	HANGUL CHOSEONG IEUNG-PHIEUPH
114C	ㅁㅅ	HANGUL CHOSEONG YESIEUNG
114D	ㅁㅅ	HANGUL CHOSEONG CIEUC-IEUNG
114E	ㅁㅅ	HANGUL CHOSEONG CHITUEUMCIEUC
114F	ㅁㅅ	HANGUL CHOSEONG CHITUEUMSSANGCIEUC
1150	ㅁㅅ	HANGUL CHOSEONG CEONGCHIEUMCIEUC
1151	ㅁㅅ	HANGUL CHOSEONG CEONGCHIEUMSSANGCIEUC
1152	ㅁㅅ	HANGUL CHOSEONG CHIEUCH-KHIEUKH
1153	ㅁㅅ	HANGUL CHOSEONG CHIEUCH-HIEUH
1154	ㅁㅅ	HANGUL CHOSEONG CHITUEUMCHIEUCH
1155	ㅁㅅ	HANGUL CHOSEONG CEONGCHIEUMCHIEUCH
1156	ㅁㅅ	HANGUL CHOSEONG PHIEUPH-PIEUP
1157	ㅁㅅ	HANGUL CHOSEONG KAPYEOUNPHIEUPH
1158	ㅁㅅ	HANGUL CHOSEONG SSANGHIEUH
1159	ㅁㅅ	HANGUL CHOSEONG YEORINHIEUH
115A	ㅁㅅ	HANGUL CHOSEONG KIYEOK-TKEUT
115B	ㅁㅅ	HANGUL CHOSEONG NIEUN-SIOS
115C	ㅁㅅ	HANGUL CHOSEONG NIEUN-CIEUC
115D	ㅁㅅ	HANGUL CHOSEONG NIEUN-HIEUH
115E	ㅁㅅ	HANGUL CHOSEONG TKEUT-RIEUL
115F	ㅁㅅ	HANGUL CHOSEONG FILLER

**Medial vowels**

1160		HANGUL JUNGSEONG FILLER
1161		HANGUL JUNGSEONG A = A
1162		HANGUL JUNGSEONG AE = AE
1163		HANGUL JUNGSEONG YA = YA
1164		HANGUL JUNGSEONG YAE = YAE
1165		HANGUL JUNGSEONG EO = EO
1166		HANGUL JUNGSEONG E = E
1167		HANGUL JUNGSEONG YEO = YEO
1168		HANGUL JUNGSEONG YE = YE
1169		HANGUL JUNGSEONG O = O
116A		HANGUL JUNGSEONG WA = WA
116B		HANGUL JUNGSEONG WAE = WAE
116C		HANGUL JUNGSEONG OE = OE
116D		HANGUL JUNGSEONG YO = YO
116E		HANGUL JUNGSEONG U = U
116F		HANGUL JUNGSEONG WEO = WEO
1170		HANGUL JUNGSEONG WE = WE
1171		HANGUL JUNGSEONG WI = WI
1172		HANGUL JUNGSEONG YU = YU
1173		HANGUL JUNGSEONG EU = EU
1174		HANGUL JUNGSEONG YI = YI
1175		HANGUL JUNGSEONG I = I
1176		HANGUL JUNGSEONG A-O
1177		HANGUL JUNGSEONG A-U
1178		HANGUL JUNGSEONG YA-O
1179		HANGUL JUNGSEONG YA-YO
117A		HANGUL JUNGSEONG EO-O
117B		HANGUL JUNGSEONG EO-U
117C		HANGUL JUNGSEONG EO-EU
117D		HANGUL JUNGSEONG YEO-O
117E		HANGUL JUNGSEONG YEO-U
117F		HANGUL JUNGSEONG O-EO
1180		HANGUL JUNGSEONG O-E
1181		HANGUL JUNGSEONG O-YE
1182		HANGUL JUNGSEONG O-O
1183		HANGUL JUNGSEONG O-U
1184		HANGUL JUNGSEONG YO-YA
1185		HANGUL JUNGSEONG YO-YAE
1186		HANGUL JUNGSEONG YO-YEO

1187		HANGUL JUNGSEONG YO-O
1188		HANGUL JUNGSEONG YO-I
1189		HANGUL JUNGSEONG U-A
118A		HANGUL JUNGSEONG U-AE
118B		HANGUL JUNGSEONG U-EO-EU
118C		HANGUL JUNGSEONG U-YE
118D		HANGUL JUNGSEONG U-U
118E		HANGUL JUNGSEONG YU-A
118F		HANGUL JUNGSEONG YU-EO
1190		HANGUL JUNGSEONG YU-E
1191		HANGUL JUNGSEONG YU-YEO
1192		HANGUL JUNGSEONG YU-YE
1193		HANGUL JUNGSEONG YU-U
1194		HANGUL JUNGSEONG YU-I
1195		HANGUL JUNGSEONG EU-U
1196		HANGUL JUNGSEONG EU-EU
1197		HANGUL JUNGSEONG YI-U
1198		HANGUL JUNGSEONG I-A
1199		HANGUL JUNGSEONG I-YA
119A		HANGUL JUNGSEONG I-O
119B		HANGUL JUNGSEONG I-U
119C		HANGUL JUNGSEONG I-EU
119D		HANGUL JUNGSEONG I-ARAE
119E		HANGUL JUNGSEONG ARAE
119F		HANGUL JUNGSEONG ARAE-EO
11A0		HANGUL JUNGSEONG ARAE-U
11A1		HANGUL JUNGSEONG ARAE-I
11A2		HANGUL JUNGSEONG SSANGARAE
11A3		HANGUL JUNGSEONG A-EU
11A4		HANGUL JUNGSEONG YA-U
11A5		HANGUL JUNGSEONG YEO-YA
11A6		HANGUL JUNGSEONG O-YA
11A7		HANGUL JUNGSEONG O-YAE

**Final consonants**

11A8		HANGUL JONGSEONG KIYEOK = G
11A9		HANGUL JONGSEONG SSANGKIYEOK = GG
11AA		HANGUL JONGSEONG KIYEOK-SIOS = GS
11AB		HANGUL JONGSEONG NIEUN = N
11AC		HANGUL JONGSEONG NIEUN-CIEUC = NJ
11AD		HANGUL JONGSEONG NIEUN-HIEUH = NH
11AE		HANGUL JONGSEONG TIKEUT = D
11AF		HANGUL JONGSEONG RIEUL = L
11B0		HANGUL JONGSEONG RIEUL-KIYEOK = LG
11B1		HANGUL JONGSEONG RIEUL-MIEUM = LM
11B2		HANGUL JONGSEONG RIEUL-PIEUP = LB
11B3		HANGUL JONGSEONG RIEUL-SIOS = LS
11B4		HANGUL JONGSEONG RIEUL-THIEUTH = LT

## 11B5

## Hangul Jamo

## 11FF

11B5	ㄹㅅ	HANGUL JONGSEONG RIEUL-PHIEUPH = LP
11B6	ㄹㅎ	HANGUL JONGSEONG RIEUL-HIEUH = LH
11B7	ㅁ	HANGUL JONGSEONG MIEUM = M
11B8	ㅂ	HANGUL JONGSEONG PIEUP = B
11B9	ㅂㅅ	HANGUL JONGSEONG PIEUP-SIOS = BS
11BA	ㅅ	HANGUL JONGSEONG SIOS = S
11BB	ㅅㅅ	HANGUL JONGSEONG SSANGSIOS = SS
11BC	ㅇ	HANGUL JONGSEONG IEUNG = NG
11BD	ㅈ	HANGUL JONGSEONG CIEUC = J
11BE	ㅊ	HANGUL JONGSEONG CHIEUCH = C
11BF	ㅋ	HANGUL JONGSEONG KHIEUKH = K
11C0	ㅌ	HANGUL JONGSEONG THIEUTH = T
11C1	ㅍ	HANGUL JONGSEONG PHIEUPH = P
11C2	ㅎ	HANGUL JONGSEONG HIEUH = H
11C3	ㄹㅊ	HANGUL JONGSEONG KIYEOK-RIEUL
11C4	ㄹㅋ	HANGUL JONGSEONG KIYEOK-SIOS-KIYEOK
11C5	ㄹㅌ	HANGUL JONGSEONG NIEUN-KIYEOK
11C6	ㄹㅍ	HANGUL JONGSEONG NIEUN-TIKEUT
11C7	ㄹㅅ	HANGUL JONGSEONG NIEUN-SIOS
11C8	ㄹㅈ	HANGUL JONGSEONG NIEUN-PANSIOS
11C9	ㄹㅊ	HANGUL JONGSEONG NIEUN-THIEUTH
11CA	ㄹㅌ	HANGUL JONGSEONG TIKIUT-KIYEOK
11CB	ㄹㅍ	HANGUL JONGSEONG TIKIUT-RIEUL
11CC	ㄹㅅㅅ	HANGUL JONGSEONG RIEUL-KIYEOK-SIOS
11CD	ㄹㅇ	HANGUL JONGSEONG RIEUL-NIEUN
11CE	ㄹㅈ	HANGUL JONGSEONG RIEUL-TIKEUT
11CF	ㄹㅊ	HANGUL JONGSEONG RIEUL-TIKEUT-HIEUH
11D0	ㄹㅌ	HANGUL JONGSEONG SSANGRIEUL
11D1	ㄹㅍㅅ	HANGUL JONGSEONG RIEUL-MIEUM-KIYEOK
11D2	ㄹㅍㅅ	HANGUL JONGSEONG RIEUL-MIEUM-SIOS
11D3	ㄹㅍㅅ	HANGUL JONGSEONG RIEUL-PIEUP-SIOS
11D4	ㄹㅍㅅ	HANGUL JONGSEONG RIEUL-PIEUP-HIEUH
11D5	ㄹㅍㅅ	HANGUL JONGSEONG RIEUL-KAPYEOUNPIEUP
11D6	ㄹㅅㅅ	HANGUL JONGSEONG RIEUL-SSANGSIOS
11D7	ㄹㅅㅅ	HANGUL JONGSEONG RIEUL-PANSIOS
11D8	ㄹㅅㅅ	HANGUL JONGSEONG RIEUL-KHIEUKH
11D9	ㄹㅅㅅ	HANGUL JONGSEONG RIEUL-YEORINHIEUH
11DA	ㅁㅅ	HANGUL JONGSEONG MIEUM-KIYEOK
11DB	ㅁㅌ	HANGUL JONGSEONG MIEUM-RIEUL
11DC	ㅁㅊ	HANGUL JONGSEONG MIEUM-PIEUP
11DD	ㅁㅅ	HANGUL JONGSEONG MIEUM-SIOS
11DE	ㅁㅅㅅ	HANGUL JONGSEONG MIEUM-SSANGSIOS
11DF	ㅁㅅㅅ	HANGUL JONGSEONG MIEUM-PANSIOS
11E0	ㅁㅅㅅ	HANGUL JONGSEONG MIEUM-CHIEUCH
11E1	ㅁㅅㅅ	HANGUL JONGSEONG MIEUM-HIEUH
11E2	ㅁㅅㅅ	HANGUL JONGSEONG KAPYEOUNMIEUM
11E3	ㅁㅅㅅ	HANGUL JONGSEONG PIEUP-RIEUL

11E4	ㅁㅅㅅ	HANGUL JONGSEONG PIEUP-PHIEUPH
11E5	ㅁㅅㅅ	HANGUL JONGSEONG PIEUP-HIEUH
11E6	ㅁㅅㅅ	HANGUL JONGSEONG KAPYEOUNPIEUP
11E7	ㅁㅅㅅ	HANGUL JONGSEONG SIOS-KIYEOK
11E8	ㅁㅅㅅ	HANGUL JONGSEONG SIOS-TIKEUT
11E9	ㅁㅅㅅ	HANGUL JONGSEONG SIOS-RIEUL
11EA	ㅁㅅㅅ	HANGUL JONGSEONG SIOS-PIEUP
11EB	ㅁㅅㅅ	HANGUL JONGSEONG PANSIOS
11EC	ㅇㅅ	HANGUL JONGSEONG IEUNG-KIYEOK = yesieung-kiyeok
11ED	ㅇㅅㅅ	HANGUL JONGSEONG IEUNG-SSANGKIYEOK = yesieung-ssangkiyeok
11EE	ㅇㅅ	HANGUL JONGSEONG SSANGIEUNG = ssangyesieung
11EF	ㅇㅅ	HANGUL JONGSEONG IEUNG-KHIEUKH = yesieung-khieukh
11F0	ㅇ	HANGUL JONGSEONG YESIEUNG
11F1	ㅇㅅ	HANGUL JONGSEONG YESIEUNG-SIOS
11F2	ㅇㅅ	HANGUL JONGSEONG YESIEUNG-PANSIOS
11F3	ㅇㅅ	HANGUL JONGSEONG PHIEUPH-PIEUP
11F4	ㅇㅅ	HANGUL JONGSEONG KAPYEOUNPHIEUPH
11F5	ㅇㅅ	HANGUL JONGSEONG HIEUH-NIEUN
11F6	ㅇㅅ	HANGUL JONGSEONG HIEUH-RIEUL
11F7	ㅇㅅ	HANGUL JONGSEONG HIEUH-MIEUM
11F8	ㅇㅅ	HANGUL JONGSEONG HIEUH-PIEUP
11F9	ㅇㅅ	HANGUL JONGSEONG YEORINHIEUH
11FA	ㅌ	HANGUL JONGSEONG KIYEOK-NIEUN
11FB	ㅌ	HANGUL JONGSEONG KIYEOK-PIEUP
11FC	ㅌ	HANGUL JONGSEONG KIYEOK-CHIEUCH
11FD	ㅌ	HANGUL JONGSEONG KIYEOK-KHIEUKH
11FE	ㅌ	HANGUL JONGSEONG KIYEOK-HIEUH
11FF	ㅌ	HANGUL JONGSEONG SSANGNIEUN

	120	121	122	123	124	125	126	127	128	129	12A	12B
0	ሀ 1200	ሐ 1210	ሠ 1220	ሰ 1230	ቀ 1240	ቐ 1250	በ 1260	ተ 1270	ኀ 1280	ነ 1290	አ 12A0	ከ 12B0
1	ሁ 1201	ሐ 1211	ሠ 1221	ሰ 1231	ቁ 1241	ቐ 1251	ቡ 1261	ቱ 1271	ኀ 1281	ነ 1291	አ 12A1	
2	ሂ 1202	ሐ 1212	ሠ 1222	ሰ 1232	ቁ 1242	ቐ 1252	ቢ 1262	ቲ 1272	ኀ 1282	ነ 1292	አ 12A2	ከ 12B2
3	ሃ 1203	ሐ 1213	ሠ 1223	ሰ 1233	ቃ 1243	ቐ 1253	ባ 1263	ታ 1273	ኀ 1283	ነ 1293	አ 12A3	ከ 12B3
4	ሄ 1204	ሐ 1214	ሠ 1224	ሰ 1234	ቁ 1244	ቐ 1254	ቤ 1264	ቲ 1274	ኀ 1284	ነ 1294	አ 12A4	ከ 12B4
5	ሀ 1205	ሐ 1215	ሠ 1225	ሰ 1235	ቀ 1245	ቐ 1255	ብ 1265	ተ 1275	ኀ 1285	ነ 1295	አ 12A5	ከ 12B5
6	ሀ 1206	ሐ 1216	ሠ 1226	ሰ 1236	ቀ 1246	ቐ 1256	ቦ 1266	ተ 1276	ኀ 1286	ነ 1296	አ 12A6	
7	ሀ 1207	ሐ 1217	ሠ 1227	ሰ 1237	ቀ 1247		ቦ 1267	ተ 1277	ኀ 1287	ነ 1297	አ 12A7	
8	ለ 1208	መ 1218	ረ 1228	ሸ 1238	ቁ 1248	ቐ 1258	ሸ 1268	ቸ 1278	ኀ 1288	ነ 1298	አ 12A8	ከ 12B8
9	ሉ 1209	መ 1219	ሩ 1229	ሸ 1239			ሸ 1269	ቸ 1279		ነ 1299	አ 12A9	ከ 12B9
A	ሊ 120A	ሚ 121A	ሪ 122A	ሸ 123A	ቀ 124A	ቐ 125A	ሸ 126A	ቸ 127A	ኀ 128A	ነ 129A	አ 12AA	ከ 12BA
B	ላ 120B	ማ 121B	ራ 122B	ሸ 123B	ቀ 124B	ቐ 125B	ሸ 126B	ቸ 127B	ኀ 128B	ነ 129B	አ 12AB	ከ 12BB
C	ሌ 120C	ሚ 121C	ሪ 122C	ሸ 123C	ቀ 124C	ቐ 125C	ሸ 126C	ቸ 127C	ኀ 128C	ነ 129C	አ 12AC	ከ 12BC
D	ል 120D	ም 121D	ር 122D	ሸ 123D	ቀ 124D	ቐ 125D	ሸ 126D	ቸ 127D	ኀ 128D	ነ 129D	አ 12AD	ከ 12BD
E	ሎ 120E	ም 121E	ሮ 122E	ሸ 123E			ሸ 126E	ቸ 127E		ነ 129E	አ 12AE	ከ 12BE
F	ሊ 120F	ሚ 121F	ሪ 122F	ሸ 123F			ሸ 126F	ቸ 127F		ነ 129F	አ 12AF	

12C0

Ethiopic

137F

	12C	12D	12E	12F	130	131	132	133	134	135	136	137
0	ሕ 12C0	ዐ 12D0	ዠ 12E0	ደ 12F0	ጀ 1300	ጐ 1310	ጠ 1320	ጸ 1330	ፀ 1340	ፐ 1350	✱ 1360	ፑ 1370
1		ዑ 12D1	ዡ 12E1	ዳ 12F1	ጁ 1301		ጡ 1321	ጹ 1331	ፁ 1341	ፑ 1351	፣ 1361	ፒ 1371
2	ከ 12C2	ዒ 12D2	ዢ 12E2	ዲ 12F2	ጂ 1302	ጒ 1312	ጢ 1322	ጺ 1332	፺ 1342	ፑ 1352	፥ 1362	ፓ 1372
3	ከ 12C3	ዓ 12D3	ዣ 12E3	ዳ 12F3	ጃ 1303	ጓ 1313	ጣ 1323	ጻ 1333	፻ 1343	ፑ 1353	፣ 1363	ፔ 1373
4	ከ 12C4	ዒ 12D4	ዤ 12E4	ዲ 12F4	ጄ 1304	ጒ 1314	ጤ 1324	ጻ 1334	፻ 1344	ፑ 1354	፥ 1364	ፕ 1374
5	ከ 12C5	ዐ 12D5	ዥ 12E5	ድ 12F5	ጅ 1305	ጒ 1315	ጥ 1325	ጽ 1335	ፐ 1345	ፑ 1355	፣ 1365	ፕ 1375
6		ዖ 12D6	ዦ 12E6	ደ 12F6	ጆ 1306		ጦ 1326	ጹ 1336	ዖ 1346	ፑ 1356	፣ 1366	ፕ 1376
7			ዧ 12E7	ዲ 12F7	ጇ 1307		ጦ 1327	ጹ 1337	ዖ 1347	ፑ 1357	፣ 1367	ፕ 1377
8	ወ 12C8	ዘ 12D8	የ 12E8	ደ 12F8	ገ 1308	ኸ 1318	ጨ 1328	ጸ 1338	ፈ 1348	ሯ 1358	፡፡ 1368	፪ 1378
9	ዉ 12C9	ዙ 12D9	ዩ 12E9	ዳ 12F9	ገ 1309	ኸ 1319	ጨ 1329	ጹ 1339	ፈ 1349	ሰ 1359	፪ 1369	፫ 1379
A	ዊ 12CA	ዚ 12DA	ዬ 12EA	ዲ 12FA	ገ 130A	ኸ 131A	ጨ 132A	ጹ 133A	ፈ 134A	ሰ 135A	፪ 136A	፫ 137A
B	ዋ 12CB	ዛ 12DB	ያ 12EB	ዳ 12FB	ገ 130B	ኸ 131B	ጨ 132B	ጹ 133B	ፈ 134B		፪ 136B	፫ 137B
C	ዌ 12CC	ዜ 12DC	ዮ 12EC	ደ 12FC	ገ 130C	ኸ 131C	ጨ 132C	ጹ 133C	ፈ 134C		፪ 136C	፫ 137C
D	ወ 12CD	ዝ 12DD	ይ 12ED	ድ 12FD	ገ 130D	ኸ 131D	ጨ 132D	ጹ 133D	ፈ 134D	፡፡ 135D	፪ 136D	
E	ዐ 12CE	ዘ 12DE	ዮ 12EE	ዳ 12FE	ገ 130E	ኸ 131E	ጨ 132E	ጹ 133E	ፈ 134E	፡፡ 135E	፪ 136E	
F	ዐ 12CF	ዘ 12DF	ዮ 12EF	ዳ 12FF	ገ 130F	ኸ 131F	ጨ 132F	ጹ 133F	ፈ 134F	፡፡ 135F	፪ 136F	

**Syllables**

1200	ሀ	ETHIOPIC SYLLABLE HA	123A	ሸ	ETHIOPIC SYLLABLE SHI
1201	ሁ	ETHIOPIC SYLLABLE HU	123B	ሻ	ETHIOPIC SYLLABLE SHAA
1202	ረ	ETHIOPIC SYLLABLE HI	123C	ሸ	ETHIOPIC SYLLABLE SHEE
1203	ሣ	ETHIOPIC SYLLABLE HAA	123D	ሽ	ETHIOPIC SYLLABLE SHE
1204	ሪ	ETHIOPIC SYLLABLE HEE	123E	ሾ	ETHIOPIC SYLLABLE SHO
1205	ሀ	ETHIOPIC SYLLABLE HE	123F	ሸ	ETHIOPIC SYLLABLE SHWA
1206	ሁ	ETHIOPIC SYLLABLE HO	1240	ቀ	ETHIOPIC SYLLABLE QA
1207	ሁ	ETHIOPIC SYLLABLE HOA	1241	ቁ	ETHIOPIC SYLLABLE QU
1208	ለ	ETHIOPIC SYLLABLE LA	1242	ቂ	ETHIOPIC SYLLABLE QI
1209	ሉ	ETHIOPIC SYLLABLE LU	1243	ቃ	ETHIOPIC SYLLABLE QAA
120A	ሊ	ETHIOPIC SYLLABLE LI	1244	ቄ	ETHIOPIC SYLLABLE QEE
120B	ላ	ETHIOPIC SYLLABLE LAA	1245	ቅ	ETHIOPIC SYLLABLE QE
120C	ሌ	ETHIOPIC SYLLABLE LEE	1246	ቆ	ETHIOPIC SYLLABLE QO
120D	ል	ETHIOPIC SYLLABLE LE	1247	ቇ	ETHIOPIC SYLLABLE QOA
120E	ሎ	ETHIOPIC SYLLABLE LO	1248	ቈ	ETHIOPIC SYLLABLE QWA
120F	ሏ	ETHIOPIC SYLLABLE LWA	1249	☐	<reserved>
1210	ሐ	ETHIOPIC SYLLABLE HHA	124A	ቀ	ETHIOPIC SYLLABLE QWI
1211	ሐ	ETHIOPIC SYLLABLE HHU	124B	ቁ	ETHIOPIC SYLLABLE QWAA
1212	ሐ	ETHIOPIC SYLLABLE HHI	124C	ቂ	ETHIOPIC SYLLABLE QWEE
1213	ሐ	ETHIOPIC SYLLABLE HHAA	124D	ቀ	ETHIOPIC SYLLABLE QWE
1214	ሐ	ETHIOPIC SYLLABLE HHEE	124E	☐	<reserved>
1215	ሐ	ETHIOPIC SYLLABLE HHE	124F	☐	<reserved>
1216	ሐ	ETHIOPIC SYLLABLE HHO	1250	ቅ	ETHIOPIC SYLLABLE QHA
1217	ሐ	ETHIOPIC SYLLABLE HHWA	1251	ቅ	ETHIOPIC SYLLABLE QHU
1218	መ	ETHIOPIC SYLLABLE MA	1252	ቅ	ETHIOPIC SYLLABLE QHI
1219	ሙ	ETHIOPIC SYLLABLE MU	1253	ቅ	ETHIOPIC SYLLABLE QHAA
121A	ሚ	ETHIOPIC SYLLABLE MI	1254	ቅ	ETHIOPIC SYLLABLE QHEE
121B	ማ	ETHIOPIC SYLLABLE MAA	1255	ቅ	ETHIOPIC SYLLABLE QHE
121C	ሚ	ETHIOPIC SYLLABLE MEE	1256	ቅ	ETHIOPIC SYLLABLE QHO
121D	ም	ETHIOPIC SYLLABLE ME	1257	☐	<reserved>
121E	ሞ	ETHIOPIC SYLLABLE MO	1258	ቅ	ETHIOPIC SYLLABLE QHWA
121F	ሚ	ETHIOPIC SYLLABLE MWA	1259	☐	<reserved>
1220	ሠ	ETHIOPIC SYLLABLE SZA	125A	ቅ	ETHIOPIC SYLLABLE QHWI
1221	ሠ	ETHIOPIC SYLLABLE SZU	125B	ቅ	ETHIOPIC SYLLABLE QHWAA
1222	ሢ	ETHIOPIC SYLLABLE SZI	125C	ቅ	ETHIOPIC SYLLABLE QHWEE
1223	ሢ	ETHIOPIC SYLLABLE SZAA	125D	ቅ	ETHIOPIC SYLLABLE QHWE
1224	ሢ	ETHIOPIC SYLLABLE SZEE	125E	☐	<reserved>
1225	ሥ	ETHIOPIC SYLLABLE SZE	125F	☐	<reserved>
1226	ሥ	ETHIOPIC SYLLABLE SZO	1260	በ	ETHIOPIC SYLLABLE BA
1227	ሢ	ETHIOPIC SYLLABLE SZWA	1261	በ	ETHIOPIC SYLLABLE BU
1228	ረ	ETHIOPIC SYLLABLE RA	1262	በ	ETHIOPIC SYLLABLE BI
1229	ሩ	ETHIOPIC SYLLABLE RU	1263	ባ	ETHIOPIC SYLLABLE BAA
122A	ረ	ETHIOPIC SYLLABLE RI	1264	ቤ	ETHIOPIC SYLLABLE BEE
122B	ረ	ETHIOPIC SYLLABLE RAA	1265	ብ	ETHIOPIC SYLLABLE BE
122C	ሪ	ETHIOPIC SYLLABLE REE	1266	ቦ	ETHIOPIC SYLLABLE BO
122D	ረ	ETHIOPIC SYLLABLE RE	1267	ባ	ETHIOPIC SYLLABLE BWA
122E	ሪ	ETHIOPIC SYLLABLE RO	1268	ቨ	ETHIOPIC SYLLABLE VA
122F	ሪ	ETHIOPIC SYLLABLE RWA	1269	ቨ	ETHIOPIC SYLLABLE VU
1230	ሰ	ETHIOPIC SYLLABLE SA	126A	ቨ	ETHIOPIC SYLLABLE VI
1231	ሰ	ETHIOPIC SYLLABLE SU	126B	ቫ	ETHIOPIC SYLLABLE VAA
1232	ሰ	ETHIOPIC SYLLABLE SI	126C	ቨ	ETHIOPIC SYLLABLE VEE
1233	ሰ	ETHIOPIC SYLLABLE SAA	126D	ቫ	ETHIOPIC SYLLABLE VE
1234	ሰ	ETHIOPIC SYLLABLE SEE	126E	ቨ	ETHIOPIC SYLLABLE VO
1235	ሰ	ETHIOPIC SYLLABLE SE	126F	ቫ	ETHIOPIC SYLLABLE VWA
1236	ሶ	ETHIOPIC SYLLABLE SO	1270	ተ	ETHIOPIC SYLLABLE TA
1237	ሰ	ETHIOPIC SYLLABLE SWA	1271	ተ	ETHIOPIC SYLLABLE TU
1238	ሸ	ETHIOPIC SYLLABLE SHA	1272	ተ	ETHIOPIC SYLLABLE TI
1239	ሸ	ETHIOPIC SYLLABLE SHU	1273	ታ	ETHIOPIC SYLLABLE TAA
			1274	ተ	ETHIOPIC SYLLABLE TEE



1275

Ethiopic

12EA

1275	ተ	ETHIOPIC SYLLABLE TE
1276	ቶ	ETHIOPIC SYLLABLE TO
1277	ታ	ETHIOPIC SYLLABLE TWA
1278	ቸ	ETHIOPIC SYLLABLE CA
1279	ቹ	ETHIOPIC SYLLABLE CU
127A	ቺ	ETHIOPIC SYLLABLE CI
127B	ቻ	ETHIOPIC SYLLABLE CAA
127C	ቼ	ETHIOPIC SYLLABLE CEE
127D	ች	ETHIOPIC SYLLABLE CE
127E	ቾ	ETHIOPIC SYLLABLE CO
127F	ቿ	ETHIOPIC SYLLABLE CWA
1280	ኀ	ETHIOPIC SYLLABLE XA
1281	ኁ	ETHIOPIC SYLLABLE XU
1282	ኂ	ETHIOPIC SYLLABLE XI
1283	ኃ	ETHIOPIC SYLLABLE XAA
1284	ኄ	ETHIOPIC SYLLABLE XEE
1285	ኅ	ETHIOPIC SYLLABLE XE
1286	ኆ	ETHIOPIC SYLLABLE XO
1287	ኇ	ETHIOPIC SYLLABLE XOA
1288	ኈ	ETHIOPIC SYLLABLE XWA
1289	▨	<reserved>
128A	ኊ	ETHIOPIC SYLLABLE XWI
128B	ኋ	ETHIOPIC SYLLABLE XWAA
128C	ኌ	ETHIOPIC SYLLABLE XWEE
128D	ኍ	ETHIOPIC SYLLABLE XWE
128E	▨	<reserved>
128F	▨	<reserved>
1290	ነ	ETHIOPIC SYLLABLE NA
1291	ኑ	ETHIOPIC SYLLABLE NU
1292	ኒ	ETHIOPIC SYLLABLE NI
1293	ና	ETHIOPIC SYLLABLE NAA
1294	ኔ	ETHIOPIC SYLLABLE NEE
1295	ን	ETHIOPIC SYLLABLE NE
1296	ኆ	ETHIOPIC SYLLABLE NO
1297	ኇ	ETHIOPIC SYLLABLE NWA
1298	ኈ	ETHIOPIC SYLLABLE NYA
1299	኉	ETHIOPIC SYLLABLE NYU
129A	ኊ	ETHIOPIC SYLLABLE NYI
129B	ኋ	ETHIOPIC SYLLABLE NYAA
129C	ኌ	ETHIOPIC SYLLABLE NYEE
129D	ኍ	ETHIOPIC SYLLABLE NYE
129E	ኆ	ETHIOPIC SYLLABLE NYO
129F	ኇ	ETHIOPIC SYLLABLE NYWA
12A0	አ	ETHIOPIC SYLLABLE GLOTTAL A
12A1	ኡ	ETHIOPIC SYLLABLE GLOTTAL U
12A2	ኢ	ETHIOPIC SYLLABLE GLOTTAL I
12A3	ኣ	ETHIOPIC SYLLABLE GLOTTAL AA
12A4	ኤ	ETHIOPIC SYLLABLE GLOTTAL EE
12A5	አ	ETHIOPIC SYLLABLE GLOTTAL E
12A6	ኦ	ETHIOPIC SYLLABLE GLOTTAL O
12A7	ኦ	ETHIOPIC SYLLABLE GLOTTAL WA
12A8	ከ	ETHIOPIC SYLLABLE KA
12A9	ከ	ETHIOPIC SYLLABLE KU
12AA	ከ	ETHIOPIC SYLLABLE KI
12AB	ከ	ETHIOPIC SYLLABLE KAA
12AC	ከ	ETHIOPIC SYLLABLE KEE
12AD	ከ	ETHIOPIC SYLLABLE KE
12AE	ከ	ETHIOPIC SYLLABLE KO
12AF	ከ	ETHIOPIC SYLLABLE KOA

12B0	ኰ	ETHIOPIC SYLLABLE KWA
12B1	▨	<reserved>
12B2	ኲ	ETHIOPIC SYLLABLE KWI
12B3	ኳ	ETHIOPIC SYLLABLE KWAA
12B4	ኴ	ETHIOPIC SYLLABLE KWEE
12B5	ኵ	ETHIOPIC SYLLABLE KWE
12B6	▨	<reserved>
12B7	▨	<reserved>
12B8	ኸ	ETHIOPIC SYLLABLE KXA
12B9	ኹ	ETHIOPIC SYLLABLE KXU
12BA	ኺ	ETHIOPIC SYLLABLE KXI
12BB	ኻ	ETHIOPIC SYLLABLE KXAA
12BC	ኼ	ETHIOPIC SYLLABLE KXEE
12BD	ኽ	ETHIOPIC SYLLABLE KXE
12BE	ኾ	ETHIOPIC SYLLABLE KXO
12BF	▨	<reserved>
12C0	ኰ	ETHIOPIC SYLLABLE KXWA
12C1	▨	<reserved>
12C2	ኲ	ETHIOPIC SYLLABLE KXWI
12C3	ኳ	ETHIOPIC SYLLABLE KXWAA
12C4	ኴ	ETHIOPIC SYLLABLE KXWEE
12C5	ኵ	ETHIOPIC SYLLABLE KXWE
12C6	▨	<reserved>
12C7	▨	<reserved>
12C8	ወ	ETHIOPIC SYLLABLE WA
12C9	ወ	ETHIOPIC SYLLABLE WU
12CA	ዐ	ETHIOPIC SYLLABLE WI
12CB	ዐ	ETHIOPIC SYLLABLE WAA
12CC	ዐ	ETHIOPIC SYLLABLE WEE
12CD	ዐ	ETHIOPIC SYLLABLE WE
12CE	ዐ	ETHIOPIC SYLLABLE WO
12CF	ዐ	ETHIOPIC SYLLABLE WOA
12D0	ዐ	ETHIOPIC SYLLABLE PHARYNGEAL A
12D1	ዐ	ETHIOPIC SYLLABLE PHARYNGEAL U
12D2	ዐ	ETHIOPIC SYLLABLE PHARYNGEAL I
12D3	ዐ	ETHIOPIC SYLLABLE PHARYNGEAL AA
12D4	ዐ	ETHIOPIC SYLLABLE PHARYNGEAL EE
12D5	ዐ	ETHIOPIC SYLLABLE PHARYNGEAL E
12D6	ዐ	ETHIOPIC SYLLABLE PHARYNGEAL O
12D7	▨	<reserved>
12D8	ዘ	ETHIOPIC SYLLABLE ZA
12D9	ዘ	ETHIOPIC SYLLABLE ZU
12DA	ዘ	ETHIOPIC SYLLABLE ZI
12DB	ዘ	ETHIOPIC SYLLABLE ZAA
12DC	ዘ	ETHIOPIC SYLLABLE ZEE
12DD	ዘ	ETHIOPIC SYLLABLE ZE
12DE	ዘ	ETHIOPIC SYLLABLE ZO
12DF	ዘ	ETHIOPIC SYLLABLE ZWA
12E0	ዘ	ETHIOPIC SYLLABLE ZHA
12E1	ዘ	ETHIOPIC SYLLABLE ZHU
12E2	ዘ	ETHIOPIC SYLLABLE ZHI
12E3	ዘ	ETHIOPIC SYLLABLE ZHAA
12E4	ዘ	ETHIOPIC SYLLABLE ZHEE
12E5	ዘ	ETHIOPIC SYLLABLE ZHE
12E6	ዘ	ETHIOPIC SYLLABLE ZHO
12E7	ዘ	ETHIOPIC SYLLABLE ZHWA
12E8	የ	ETHIOPIC SYLLABLE YA
12E9	የ	ETHIOPIC SYLLABLE YU
12EA	የ	ETHIOPIC SYLLABLE YI

12EB	የ	ETHIOPIC SYLLABLE YAA
12EC	ዩ	ETHIOPIC SYLLABLE YEE
12ED	ይ	ETHIOPIC SYLLABLE YE
12EE	ዮ	ETHIOPIC SYLLABLE YO
12EF	ዮ	ETHIOPIC SYLLABLE YOA
12F0	ደ	ETHIOPIC SYLLABLE DA
12F1	ደ	ETHIOPIC SYLLABLE DU
12F2	ደ	ETHIOPIC SYLLABLE DI
12F3	ደ	ETHIOPIC SYLLABLE DAA
12F4	ደ	ETHIOPIC SYLLABLE DEE
12F5	ደ	ETHIOPIC SYLLABLE DE
12F6	ደ	ETHIOPIC SYLLABLE DO
12F7	ደ	ETHIOPIC SYLLABLE DWA
12F8	ደ	ETHIOPIC SYLLABLE DDA
12F9	ደ	ETHIOPIC SYLLABLE DDU
12FA	ደ	ETHIOPIC SYLLABLE DDI
12FB	ደ	ETHIOPIC SYLLABLE DDAA
12FC	ደ	ETHIOPIC SYLLABLE DDEE
12FD	ደ	ETHIOPIC SYLLABLE DDE
12FE	ደ	ETHIOPIC SYLLABLE DDO
12FF	ደ	ETHIOPIC SYLLABLE DDWA
1300	ገ	ETHIOPIC SYLLABLE JA
1301	ገ	ETHIOPIC SYLLABLE JU
1302	ገ	ETHIOPIC SYLLABLE JI
1303	ገ	ETHIOPIC SYLLABLE JAA
1304	ገ	ETHIOPIC SYLLABLE JEE
1305	ገ	ETHIOPIC SYLLABLE JE
1306	ገ	ETHIOPIC SYLLABLE JO
1307	ገ	ETHIOPIC SYLLABLE JWA
1308	ገ	ETHIOPIC SYLLABLE GA
1309	ገ	ETHIOPIC SYLLABLE GU
130A	ገ	ETHIOPIC SYLLABLE GI
130B	ገ	ETHIOPIC SYLLABLE GAA
130C	ገ	ETHIOPIC SYLLABLE GEE
130D	ገ	ETHIOPIC SYLLABLE GE
130E	ገ	ETHIOPIC SYLLABLE GO
130F	ገ	ETHIOPIC SYLLABLE GOA
1310	ገ	ETHIOPIC SYLLABLE GWA
1311	◻	<reserved>
1312	ገ	ETHIOPIC SYLLABLE GWI
1313	ገ	ETHIOPIC SYLLABLE GWAA
1314	ገ	ETHIOPIC SYLLABLE GWEE
1315	ገ	ETHIOPIC SYLLABLE GWE
1316	◻	<reserved>
1317	◻	<reserved>
1318	ገ	ETHIOPIC SYLLABLE GGA
1319	ገ	ETHIOPIC SYLLABLE GGU
131A	ገ	ETHIOPIC SYLLABLE GGI
131B	ገ	ETHIOPIC SYLLABLE GGAA
131C	ገ	ETHIOPIC SYLLABLE GGEE
131D	ገ	ETHIOPIC SYLLABLE GGE
131E	ገ	ETHIOPIC SYLLABLE GGO
131F	ገ	ETHIOPIC SYLLABLE GGWAA
1320	ጠ	ETHIOPIC SYLLABLE THA
1321	ጠ	ETHIOPIC SYLLABLE THU
1322	ጠ	ETHIOPIC SYLLABLE THI
1323	ጠ	ETHIOPIC SYLLABLE THAA
1324	ጠ	ETHIOPIC SYLLABLE THEE
1325	ጠ	ETHIOPIC SYLLABLE THE

1326	ጠ	ETHIOPIC SYLLABLE THO
1327	ጠ	ETHIOPIC SYLLABLE THWA
1328	ጠ	ETHIOPIC SYLLABLE CHA
1329	ጠ	ETHIOPIC SYLLABLE CHU
132A	ጠ	ETHIOPIC SYLLABLE CHI
132B	ጠ	ETHIOPIC SYLLABLE CHAA
132C	ጠ	ETHIOPIC SYLLABLE CHEE
132D	ጠ	ETHIOPIC SYLLABLE CHE
132E	ጠ	ETHIOPIC SYLLABLE CHO
132F	ጠ	ETHIOPIC SYLLABLE CHWA
1330	ጸ	ETHIOPIC SYLLABLE PHA
1331	ጸ	ETHIOPIC SYLLABLE PHU
1332	ጸ	ETHIOPIC SYLLABLE PHI
1333	ጸ	ETHIOPIC SYLLABLE PHAA
1334	ጸ	ETHIOPIC SYLLABLE PHEE
1335	ጸ	ETHIOPIC SYLLABLE PHE
1336	ጸ	ETHIOPIC SYLLABLE PHO
1337	ጸ	ETHIOPIC SYLLABLE PHWA
1338	ጸ	ETHIOPIC SYLLABLE TSA
1339	ጸ	ETHIOPIC SYLLABLE TSU
133A	ጸ	ETHIOPIC SYLLABLE TSI
133B	ጸ	ETHIOPIC SYLLABLE TSAA
133C	ጸ	ETHIOPIC SYLLABLE TSEE
133D	ጸ	ETHIOPIC SYLLABLE TSE
133E	ጸ	ETHIOPIC SYLLABLE TSO
133F	ጸ	ETHIOPIC SYLLABLE TSWA
1340	ፀ	ETHIOPIC SYLLABLE TZA
1341	ፀ	ETHIOPIC SYLLABLE TZU
1342	ፀ	ETHIOPIC SYLLABLE TZI
1343	ፀ	ETHIOPIC SYLLABLE TZAA
1344	ፀ	ETHIOPIC SYLLABLE TZEE
1345	ፀ	ETHIOPIC SYLLABLE TZE
1346	ፀ	ETHIOPIC SYLLABLE TZO
1347	ፀ	ETHIOPIC SYLLABLE TZOA
1348	ፈ	ETHIOPIC SYLLABLE FA
1349	ፈ	ETHIOPIC SYLLABLE FU
134A	ፈ	ETHIOPIC SYLLABLE FI
134B	ፈ	ETHIOPIC SYLLABLE FAA
134C	ፈ	ETHIOPIC SYLLABLE FEE
134D	ፈ	ETHIOPIC SYLLABLE FE
134E	ፈ	ETHIOPIC SYLLABLE FO
134F	ፈ	ETHIOPIC SYLLABLE FWA
1350	ፒ	ETHIOPIC SYLLABLE PA
1351	ፒ	ETHIOPIC SYLLABLE PU
1352	ፒ	ETHIOPIC SYLLABLE PI
1353	ፒ	ETHIOPIC SYLLABLE PAA
1354	ፒ	ETHIOPIC SYLLABLE PEE
1355	ፒ	ETHIOPIC SYLLABLE PE
1356	ፒ	ETHIOPIC SYLLABLE PO
1357	ፒ	ETHIOPIC SYLLABLE PWA
1358	ፒ	ETHIOPIC SYLLABLE RYA
1359	ፒ	ETHIOPIC SYLLABLE MYA
135A	ፒ	ETHIOPIC SYLLABLE FYA

**Combining marks**

135D	◌̣	ETHIOPIC COMBINING GEMINATION AND VOWEL LENGTH MARK
	•	Basketo
135E	◌̣	ETHIOPIC COMBINING VOWEL LENGTH MARK
	•	Basketo

135F

Ethiopic

137C

135F ፡፡ ETHIOPIC COMBINING GEMINATION MARK

**Punctuation**

1360 \* ETHIOPIC SECTION MARK  
 1361 ፡ ETHIOPIC WORDSPACE  
 1362 ፡፡ ETHIOPIC FULL STOP  
 1363 ፡፡፡ ETHIOPIC COMMA  
 1364 ፡፡፡ ETHIOPIC SEMICOLON  
 1365 ፡፡፡ ETHIOPIC COLON  
 1366 ፡፡፡ ETHIOPIC PREFACE COLON  
 1367 ፡፡፡ ETHIOPIC QUESTION MARK  
 1368 ፡፡፡፡፡ ETHIOPIC PARAGRAPH SEPARATOR

**Digits**

1369 ፩ ETHIOPIC DIGIT ONE  
 136A ፪ ETHIOPIC DIGIT TWO  
 136B ፫ ETHIOPIC DIGIT THREE  
 136C ፬ ETHIOPIC DIGIT FOUR  
 136D ፭ ETHIOPIC DIGIT FIVE  
 136E ፮ ETHIOPIC DIGIT SIX  
 136F ፯ ETHIOPIC DIGIT SEVEN  
 1370 ፰ ETHIOPIC DIGIT EIGHT  
 1371 ፱ ETHIOPIC DIGIT NINE

**Numbers**

1372 ፲ ETHIOPIC NUMBER TEN  
 1373 ፳ ETHIOPIC NUMBER TWENTY  
 1374 ፴ ETHIOPIC NUMBER THIRTY  
 1375 ፵ ETHIOPIC NUMBER FORTY  
 1376 ፶ ETHIOPIC NUMBER FIFTY  
 1377 ፷ ETHIOPIC NUMBER SIXTY  
 1378 ፸፩ ETHIOPIC NUMBER SEVENTY  
 1379 ፸፪ ETHIOPIC NUMBER EIGHTY  
 137A ፸፫ ETHIOPIC NUMBER NINETY  
 137B ፻ ETHIOPIC NUMBER HUNDRED  
 137C ፳፻ ETHIOPIC NUMBER TEN THOUSAND

	138	139
0	መሙ 1380	ሙ 1390
1	ማሓ 1381	ሓ 1391
2	ሚ 1382	፤ 1392
3	ምሙ 1383	፥ 1393
4	ቡሙ 1384	ሙ 1394
5	ቡሓ 1385	ሓ 1395
6	ቡሓ 1386	ሓ 1396
7	ቡሙ 1387	ሙ 1397
8	ፈሙ 1388	ሙ 1398
9	ፈሓ 1389	ሓ 1399
A	ፋሙ 138A	
B	ፋሙ 138B	
C	ፋሙ 138C	
D	ፋሙ 138D	
E	ፋሙ 138E	
F	ፋሙ 138F	

**Syllables for Sebatbeit**

1380	መሙ	ETHIOPIC SYLLABLE SEBATBEIT MWA
1381	ማሓ	ETHIOPIC SYLLABLE MWI
1382	ሚ	ETHIOPIC SYLLABLE MWEE
1383	ምሙ	ETHIOPIC SYLLABLE MWE
1384	ቡሙ	ETHIOPIC SYLLABLE SEBATBEIT BWA
1385	ቡሓ	ETHIOPIC SYLLABLE BWI
1386	ቡሓ	ETHIOPIC SYLLABLE BWEE
1387	ቡሙ	ETHIOPIC SYLLABLE BWE
1388	ፈሙ	ETHIOPIC SYLLABLE SEBATBEIT FWA
1389	ፈሓ	ETHIOPIC SYLLABLE FWI
138A	ፋሙ	ETHIOPIC SYLLABLE FWEE
138B	ፋሙ	ETHIOPIC SYLLABLE FWE
138C	ፋሙ	ETHIOPIC SYLLABLE SEBATBEIT PWA
138D	ፋሙ	ETHIOPIC SYLLABLE PWI
138E	ፋሙ	ETHIOPIC SYLLABLE PWEE
138F	ፋሙ	ETHIOPIC SYLLABLE PWE

**Tonal marks**

*Intended for use with a multiline scored layout*

1390	ሥ	ETHIOPIC TONAL MARK YIZET
1391	ሥ	ETHIOPIC TONAL MARK DERET
1392	፤	ETHIOPIC TONAL MARK RIKRIK
1393	፥	ETHIOPIC TONAL MARK SHORT RIKRIK
1394	ሥ	ETHIOPIC TONAL MARK DIFAT
1395	ሥ	ETHIOPIC TONAL MARK KENAT
1396	ሥ	ETHIOPIC TONAL MARK CHIRET
1397	—	ETHIOPIC TONAL MARK HIDET
1398	ሥ	ETHIOPIC TONAL MARK DERET-HIDET
1399	ሥ	ETHIOPIC TONAL MARK KURT

	13A	13B	13C	13D	13E	13F
0	D 13A0	F 13B0	G 13C0	† 13D0	‡ 13E0	β 13F0
1	R 13A1	Γ 13B1	Λ 13C1	∞ 13D1	∅ 13E1	♩ 13F1
2	T 13A2	Q 13B2	h 13C2	R 13D2	P 13E2	h 13F2
3	Ꭰ 13A3	W 13B3	Z 13C3	L 13D3	G 13E3	G <sup>w</sup> 13F3
4	Ꭱ 13A4	Ꭲ 13B4	Ꭳ 13C4	Ꭴ 13D4	Ꭵ 13E4	B 13F4
5	i 13A5	Ꭶ 13B5	Ꭷ 13C5	Ꭸ 13D5	Ꭹ 13E5	
6	Ꭺ 13A6	Ꭻ 13B6	Ꭼ 13C6	Ꭽ 13D6	Ꭾ 13E6	
7	Ꭿ 13A7	Ꮀ 13B7	Ꮁ 13C7	Ꮂ 13D7	Ꮃ 13E7	
8	Ꮄ 13A8	Ꮅ 13B8	Ꮆ 13C8	Ꮇ 13D8	Ꮈ 13E8	
9	Ꮉ 13A9	Ꮊ 13B9	Ꮋ 13C9	Ꮌ 13D9	Ꮍ 13E9	
A	A 13AA	Ꮎ 13BA	Ꮏ 13CA	S 13DA	Ꮝ 13EA	
B	J 13AB	H 13BB	Ꮖ 13CB	Ꮗ 13DB	Ꮘ 13EB	
C	E 13AC	Ꮚ 13BC	Ꮛ 13CC	Ꮜ 13DC	Ꮝ 13EC	
D	Ꮞ 13AD	Ꮟ 13BD	Ꮠ 13CD	Ꮡ 13DD	Ꮢ 13ED	
E	Ꮣ 13AE	Ꮤ 13BE	Ꮥ 13CE	L 13DE	Ꮦ 13EE	
F	Ꮧ 13AF	Ꮨ 13BF	Ꮩ 13CF	C 13DF	Ꮫ 13EF	





















































































































































































































**Syllables**

13A0	D	CHEROKEE LETTER A	13DA	S	CHEROKEE LETTER DU
13A1	R	CHEROKEE LETTER E	13DB	Ბ	CHEROKEE LETTER DV
13A2	T	CHEROKEE LETTER I	13DC	Დ	CHEROKEE LETTER DLA
13A3	Პ	CHEROKEE LETTER O	13DD	Ვ	CHEROKEE LETTER TLA
13A4	Რ	CHEROKEE LETTER U	13DE	L	CHEROKEE LETTER TLE
13A5	i	CHEROKEE LETTER V	13DF	C	CHEROKEE LETTER TLI
13A6	S	CHEROKEE LETTER GA	13E0	Პ	CHEROKEE LETTER TLO
13A7	Ტ	CHEROKEE LETTER KA	13E1	Რ	CHEROKEE LETTER TLU
13A8	Უ	CHEROKEE LETTER GE	13E2	P	CHEROKEE LETTER TLV
13A9	Ფ	CHEROKEE LETTER GI	13E3	G	CHEROKEE LETTER TSA
13AA	A	CHEROKEE LETTER GO	13E4	V	CHEROKEE LETTER TSE
13AB	J	CHEROKEE LETTER GU	13E5	Პ	CHEROKEE LETTER TSI
13AC	E	CHEROKEE LETTER GV	13E6	K	CHEROKEE LETTER TSO
13AD	Პ	CHEROKEE LETTER HA	13E7	Რ	CHEROKEE LETTER TSU
13AE	Ტ	CHEROKEE LETTER HE	13E8	Ტ	CHEROKEE LETTER TSV
13AF	Უ	CHEROKEE LETTER HI	13E9	G	CHEROKEE LETTER WA
13B0	Ფ	CHEROKEE LETTER HO	13EA	Პ	CHEROKEE LETTER WE
13B1	Ღ	CHEROKEE LETTER HU	13EB	Ტ	CHEROKEE LETTER WI
13B2	Ყ	CHEROKEE LETTER HV	13EC	Ტ	CHEROKEE LETTER WO
13B3	W	CHEROKEE LETTER LA	13ED	Ტ	CHEROKEE LETTER WU
13B4	Ყ	CHEROKEE LETTER LE	13EE	G	CHEROKEE LETTER WV
13B5	Ტ	CHEROKEE LETTER LI	13EF	Პ	CHEROKEE LETTER YA
13B6	G	CHEROKEE LETTER LO	13F0	Ტ	CHEROKEE LETTER YE
13B7	M	CHEROKEE LETTER LU	13F1	Უ	CHEROKEE LETTER YI
13B8	Ტ	CHEROKEE LETTER LV	13F2	Პ	CHEROKEE LETTER YO
13B9	Უ	CHEROKEE LETTER MA	13F3	Ტ	CHEROKEE LETTER YU
13BA	Ტ	CHEROKEE LETTER ME	13F4	B	CHEROKEE LETTER YV
13BB	H	CHEROKEE LETTER MI			
13BC	Ტ	CHEROKEE LETTER MO			
13BD	Ფ	CHEROKEE LETTER MU			
13BE	Ტ	CHEROKEE LETTER NA			
13BF	Ყ	CHEROKEE LETTER HNA			
13C0	G	CHEROKEE LETTER NAH			
13C1	Ტ	CHEROKEE LETTER NE			
13C2	Ტ	CHEROKEE LETTER NI			
13C3	Z	CHEROKEE LETTER NO			
13C4	Ტ	CHEROKEE LETTER NU			
13C5	Ტ	CHEROKEE LETTER NV			
13C6	Ტ	CHEROKEE LETTER QUA			
13C7	Ტ	CHEROKEE LETTER QUE			
13C8	Ტ	CHEROKEE LETTER QUI			
13C9	Ტ	CHEROKEE LETTER QUO			
13CA	Ტ	CHEROKEE LETTER QUU			
13CB	Ტ	CHEROKEE LETTER QUV			
13CC	Ტ	CHEROKEE LETTER SA			
13CD	Ტ	CHEROKEE LETTER S			
13CE	Ტ	CHEROKEE LETTER SE			
13CF	Ტ	CHEROKEE LETTER SI			
13D0	Ტ	CHEROKEE LETTER SO			
13D1	Ტ	CHEROKEE LETTER SU			
13D2	R	CHEROKEE LETTER SV			
13D3	L	CHEROKEE LETTER DA			
13D4	W	CHEROKEE LETTER TA			
13D5	S	CHEROKEE LETTER DE			
13D6	Ტ	CHEROKEE LETTER TE			
13D7	Ტ	CHEROKEE LETTER DI			
13D8	Ტ	CHEROKEE LETTER TI			
13D9	V	CHEROKEE LETTER DO			

1400

## Unified Canadian Aboriginal Syllabics

14DF

	140	141	142	143	144	145	146	147	148	149	14A	14B	14C	14D
0	 1400	 1410	 1420	 1430	 1440	 1450	 1460	 1470	 1480	 1490	 14A0	 14B0	 14C0	 14D0
1	 1401	 1411	 1421	 1431	 1441	 1451	 1461	 1471	 1481	 1491	 14A1	 14B1	 14C1	 14D1
2	 1402	 1412	 1422	 1432	 1442	 1452	 1462	 1472	 1482	 1492	 14A2	 14B2	 14C2	 14D2
3	 1403	 1413	 1423	 1433	 1443	 1453	 1463	 1473	 1483	 1493	 14A3	 14B3	 14C3	 14D3
4	 1404	 1414	 1424	 1434	 1444	 1454	 1464	 1474	 1484	 1494	 14A4	 14B4	 14C4	 14D4
5	 1405	 1415	 1425	 1435	 1445	 1455	 1465	 1475	 1485	 1495	 14A5	 14B5	 14C5	 14D5
6	 1406	 1416	 1426	 1436	 1446	 1456	 1466	 1476	 1486	 1496	 14A6	 14B6	 14C6	 14D6
7	 1407	 1417	 1427	 1437	 1447	 1457	 1467	 1477	 1487	 1497	 14A7	 14B7	 14C7	 14D7
8	 1408	 1418	 1428	 1438	 1448	 1458	 1468	 1478	 1488	 1498	 14A8	 14B8	 14C8	 14D8
9	 1409	 1419	 1429	 1439	 1449	 1459	 1469	 1479	 1489	 1499	 14A9	 14B9	 14C9	 14D9
A	 140A	 141A	 142A	 143A	 144A	 145A	 146A	 147A	 148A	 149A	 14AA	 14BA	 14CA	 14DA
B	 140B	 141B	 142B	 143B	 144B	 145B	 146B	 147B	 148B	 149B	 14AB	 14BB	 14CB	 14DB
C	 140C	 141C	 142C	 143C	 144C	 145C	 146C	 147C	 148C	 149C	 14AC	 14BC	 14CC	 14DC
D	 140D	 141D	 142D	 143D	 144D	 145D	 146D	 147D	 148D	 149D	 14AD	 14BD	 14CD	 14DD
E	 140E	 141E	 142E	 143E	 144E	 145E	 146E	 147E	 148E	 149E	 14AE	 14BE	 14CE	 14DE
F	 140F	 141F	 142F	 143F	 144F	 145F	 146F	 147F	 148F	 149F	 14AF	 14BF	 14CF	 14DF








	14E	14F	150	151	152	153	154	155	156	157	158	159	15A
0	14E0	14F0	1500	1510	1520	1530	1540	1550	1560	1570	1580	1590	15A0
1	14E1	14F1	1501	1511	1521	1531	1541	1551	1561	1571	1581	1591	15A1
2	14E2	14F2	1502	1512	1522	1532	1542	1552	1562	1572	1582	1592	15A2
3	14E3	14F3	1503	1513	1523	1533	1543	1553	1563	1573	1583	1593	15A3
4	14E4	14F4	1504	1514	1524	1534	1544	1554	1564	1574	1584	1594	15A4
5	14E5	14F5	1505	1515	1525	1535	1545	1555	1565	1575	1585	1595	15A5
6	14E6	14F6	1506	1516	1526	1536	1546	1556	1566	1576	1586	1596	15A6
7	14E7	14F7	1507	1517	1527	1537	1547	1557	1567	1577	1587	1597	15A7
8	14E8	14F8	1508	1518	1528	1538	1548	1558	1568	1578	1588	1598	15A8
9	14E9	14F9	1509	1519	1529	1539	1549	1559	1569	1579	1589	1599	15A9
A	14EA	14FA	150A	151A	152A	153A	154A	155A	156A	157A	158A	159A	15AA
B	14EB	14FB	150B	151B	152B	153B	154B	155B	156B	157B	158B	159B	15AB
C	14EC	14FC	150C	151C	152C	153C	154C	155C	156C	157C	158C	159C	15AC
D	14ED	14FD	150D	151D	152D	153D	154D	155D	156D	157D	158D	159D	15AD
E	14EE	14FE	150E	151E	152E	153E	154E	155E	156E	157E	158E	159E	15AE
F	14EF	14FF	150F	151F	152F	153F	154F	155F	156F	157F	158F	159F	15AF



15B0

## Unified Canadian Aboriginal Syllabics

167F

	15B	15C	15D	15E	15F	160	161	162	163	164	165	166	167
0	 15B0	 15C0	 15D0	 15E0	 15F0	 1600	 1610	 1620	 1630	 1640	 1650	 1660	 1670
1	 15B1	 15C1	 15D1	 15E1	 15F1	 1601	 1611	 1621	 1631	 1641	 1651	 1661	 1671
2	 15B2	 15C2	 15D2	 15E2	 15F2	 1602	 1612	 1622	 1632	 1642	 1652	 1662	 1672
3	 15B3	 15C3	 15D3	 15E3	 15F3	 1603	 1613	 1623	 1633	 1643	 1653	 1663	 1673
4	 15B4	 15C4	 15D4	 15E4	 15F4	 1604	 1614	 1624	 1634	 1644	 1654	 1664	 1674
5	 15B5	 15C5	 15D5	 15E5	 15F5	 1605	 1615	 1625	 1635	 1645	 1655	 1665	 1675
6	 15B6	 15C6	 15D6	 15E6	 15F6	 1606	 1616	 1626	 1636	 1646	 1656	 1666	 1676
7	 15B7	 15C7	 15D7	 15E7	 15F7	 1607	 1617	 1627	 1637	 1647	 1657	 1667	 1677
8	 15B8	 15C8	 15D8	 15E8	 15F8	 1608	 1618	 1628	 1638	 1648	 1658	 1668	 1678
9	 15B9	 15C9	 15D9	 15E9	 15F9	 1609	 1619	 1629	 1639	 1649	 1659	 1669	 1679
A	 15BA	 15CA	 15DA	 15EA	 15FA	 160A	 161A	 162A	 163A	 164A	 165A	 166A	 167A
B	 15BB	 15CB	 15DB	 15EB	 15FB	 160B	 161B	 162B	 163B	 164B	 165B	 166B	 167B
C	 15BC	 15CC	 15DC	 15EC	 15FC	 160C	 161C	 162C	 163C	 164C	 165C	 166C	 167C
D	 15BD	 15CD	 15DD	 15ED	 15FD	 160D	 161D	 162D	 163D	 164D	 165D	 166D	 167D
E	 15BE	 15CE	 15DE	 15EE	 15FE	 160E	 161E	 162E	 163E	 164E	 165E	 166E	 167E
F	 15BF	 15CF	 15DF	 15EF	 15FF	 160F	 161F	 162F	 163F	 164F	 165F	 166F	 167F

**Punctuation**

1400 = CANADIAN SYLLABICS HYPHEN

**Syllables**

1401 ▽ CANADIAN SYLLABICS E  
• Inuktitut (AI), Carrier (U)

1402 Δ CANADIAN SYLLABICS AAI  
• Inuktitut

1403 Δ CANADIAN SYLLABICS I  
• Carrier (O)

1404 Δ CANADIAN SYLLABICS II

1405 ▷ CANADIAN SYLLABICS O  
• Inuktitut (U), Carrier (E)

1406 ▷ CANADIAN SYLLABICS OO  
• Inuktitut (UU)

1407 ⤵ CANADIAN SYLLABICS Y-CREE OO

1408 ▷ CANADIAN SYLLABICS CARRIER EE

1409 ▷ CANADIAN SYLLABICS CARRIER I

140A ◁ CANADIAN SYLLABICS A

140B ◁ CANADIAN SYLLABICS AA

140C ↖ CANADIAN SYLLABICS WE

140D ↖ CANADIAN SYLLABICS WEST-CREE WE

140E △ CANADIAN SYLLABICS WI

140F △ CANADIAN SYLLABICS WEST-CREE WI

1410 △ CANADIAN SYLLABICS WII

1411 △ CANADIAN SYLLABICS WEST-CREE WII

1412 ▷ CANADIAN SYLLABICS WO

1413 ▷ CANADIAN SYLLABICS WEST-CREE WO

1414 ⤵ CANADIAN SYLLABICS WOO

1415 ⤵ CANADIAN SYLLABICS WEST-CREE WOO

1416 ⤵ CANADIAN SYLLABICS NASKAPI WOO

1417 ◁ CANADIAN SYLLABICS WA

1418 ◁ CANADIAN SYLLABICS WEST-CREE WA

1419 ◁ CANADIAN SYLLABICS WAA

141A ◁ CANADIAN SYLLABICS WEST-CREE WAA

141B ◁ CANADIAN SYLLABICS NASKAPI WAA

141C ∞ CANADIAN SYLLABICS AI  
• East Cree

141D ∞ CANADIAN SYLLABICS Y-CREE W

141E ∞ CANADIAN SYLLABICS GLOTTAL STOP  
• Moose Cree (Y), Algonquian (GLOTTAL STOP)

141F ∞ CANADIAN SYLLABICS FINAL ACUTE  
• West Cree (T), East Cree (Y), Inuktitut (GLOTTAL STOP)  
• Athapascan (B/P), Sayisi (I), Carrier (G)

1420 ∞ CANADIAN SYLLABICS FINAL GRAVE  
• West Cree (K), Athapascan (K), Carrier (KH)

1421 ∞ CANADIAN SYLLABICS FINAL BOTTOM HALF RING  
• N Cree (SH), Sayisi (R), Carrier (NG)

1422 ∞ CANADIAN SYLLABICS FINAL TOP HALF RING  
• Algonquian (S), Chipewyan (R), Sayisi (S)

1423 ∞ CANADIAN SYLLABICS FINAL RIGHT HALF RING  
• West Cree (N), Athapascan (D/T), Sayisi (N), Carrier (N)

1424 ∞ CANADIAN SYLLABICS FINAL RING  
• West Cree (W), Sayisi (O)

1425 ∞ CANADIAN SYLLABICS FINAL DOUBLE ACUTE  
• Chipewyan (TT), South Slavey (GH)

1426 ∞ CANADIAN SYLLABICS FINAL DOUBLE SHORT VERTICAL STROKES  
• Algonquian (H), Carrier (R)

1427 ∞ CANADIAN SYLLABICS FINAL MIDDLE DOT  
• Moose Cree (W), Athapascan (Y), Sayisi (YU), Blackfoot (S)

1428 ∞ CANADIAN SYLLABICS FINAL SHORT HORIZONTAL STROKE  
• West Cree (C), Sayisi (D)

1429 + CANADIAN SYLLABICS FINAL PLUS  
• Athapascan (N), Sayisi (AI)

142A ∞ CANADIAN SYLLABICS FINAL DOWN TACK  
• N Cree (L), Carrier (D)  
→ 22A4 T down tack

142B ∞ CANADIAN SYLLABICS EN

142C ∞ CANADIAN SYLLABICS IN

142D ∞ CANADIAN SYLLABICS ON

142E ∞ CANADIAN SYLLABICS AN

142F ∞ CANADIAN SYLLABICS PE  
• Inuktitut (PAI), Athapascan (BE), Carrier (HU)

1430 ∞ CANADIAN SYLLABICS PAAI  
• Inuktitut

1431 ∞ CANADIAN SYLLABICS PI

1432 ∞ CANADIAN SYLLABICS PII

1433 > CANADIAN SYLLABICS PO  
• Inuktitut (PU), Athapascan (BO), Carrier (HE)

1434 > CANADIAN SYLLABICS POO  
• Inuktitut (PUU)

1435 > CANADIAN SYLLABICS Y-CREE POO

1436 > CANADIAN SYLLABICS CARRIER HEE

1437 > CANADIAN SYLLABICS CARRIER HI

1438 < CANADIAN SYLLABICS PA  
• Athapascan (BA), Carrier (HA)

1439 < CANADIAN SYLLABICS PAA

143A ∞ CANADIAN SYLLABICS PWE

143B ∞ CANADIAN SYLLABICS WEST-CREE PWE

143C ∞ CANADIAN SYLLABICS PWI

143D ∞ CANADIAN SYLLABICS WEST-CREE PWI

143E ∞ CANADIAN SYLLABICS PWII

143F ∞ CANADIAN SYLLABICS WEST-CREE PWII

1440 ∞ CANADIAN SYLLABICS PWO

1441 ∞ CANADIAN SYLLABICS WEST-CREE PWO

1442 ∞ CANADIAN SYLLABICS PWOO

1443 ∞ CANADIAN SYLLABICS WEST-CREE PWOO

1444 < CANADIAN SYLLABICS PWA

1445 < CANADIAN SYLLABICS WEST-CREE PWA

1446 ∞ CANADIAN SYLLABICS PWAA

1447 ∞ CANADIAN SYLLABICS WEST-CREE PWAA

1448 ∞ CANADIAN SYLLABICS Y-CREE PWAA

1449 < CANADIAN SYLLABICS P  
• Blackfoot (Y)

144A ∞ CANADIAN SYLLABICS WEST-CREE P  
• Sayisi (G)

144B ∞ CANADIAN SYLLABICS CARRIER H

144C U CANADIAN SYLLABICS TE  
• Inuktitut (TAI), Athapascan (DI), Carrier (DU)

144D ∞ CANADIAN SYLLABICS TAAI  
• Inuktitut

144E	n̄	CANADIAN SYLLABICS TI • Athapascan (DE), Carrier (DO)	147A	ɖ	CANADIAN SYLLABICS KWO
144F	ñ	CANADIAN SYLLABICS TII	147B	ɗ	CANADIAN SYLLABICS WEST-CREE KWO
1450	ɔ̃	CANADIAN SYLLABICS TO • Inuktitut (TU), Athapascan (DO), Carrier (DE), Sayisi (DU)	147C	ɛ̃	CANADIAN SYLLABICS KWOO
1451	ɔ̇	CANADIAN SYLLABICS TOO • Inuktitut (TUU)	147D	ʝ	CANADIAN SYLLABICS WEST-CREE KWOO
1452	ʏ	CANADIAN SYLLABICS Y-CREE TOO	147E	ɸ	CANADIAN SYLLABICS KWA
1453	ɔ̆	CANADIAN SYLLABICS CARRIER DEE	147F	ɸ̌	CANADIAN SYLLABICS WEST-CREE KWA
1454	ɔ̈	CANADIAN SYLLABICS CARRIER DI	1480	ɬ	CANADIAN SYLLABICS KWAA
1455	c̣	CANADIAN SYLLABICS TA • Athapascan (DA)	1481	ɬ̌	CANADIAN SYLLABICS WEST-CREE KWAA
1456	č̣	CANADIAN SYLLABICS TAA	1482	ɮ	CANADIAN SYLLABICS NASKAPI KWAA
1457	ɯ̆	CANADIAN SYLLABICS TWE	1483	ɰ	CANADIAN SYLLABICS K
1458	ɯ̈	CANADIAN SYLLABICS WEST-CREE TWE	1484	ɶ	CANADIAN SYLLABICS KW • East Cree
1459	ɲ̆	CANADIAN SYLLABICS TWI	1485	ɤ̆	CANADIAN SYLLABICS SOUTH-SLAVEY KEH
145A	ɲ̈	CANADIAN SYLLABICS WEST-CREE TWI	1486	ɥ̆	CANADIAN SYLLABICS SOUTH-SLAVEY KIH
145B	ɳ̆	CANADIAN SYLLABICS TWII	1487	ɤ̈	CANADIAN SYLLABICS SOUTH-SLAVEY KOH
145C	ɳ̈	CANADIAN SYLLABICS WEST-CREE TWII	1488	ɷ̆	CANADIAN SYLLABICS SOUTH-SLAVEY KAH
145D	ɔ̊	CANADIAN SYLLABICS TWO	1489	ɿ	CANADIAN SYLLABICS CE • Inuktitut (GAI), Athapascan (DHE), Sayisi (THE), Blackfoot (MA)
145E	ɔ̋	CANADIAN SYLLABICS WEST-CREE TWO	148A	ɱ̆	CANADIAN SYLLABICS CAAI • Inuktitut (GAAl)
145F	ɔ̍	CANADIAN SYLLABICS TWOO	148B	ɾ̆	CANADIAN SYLLABICS CI • Inuktitut (GI), Athapascan (DHl), Sayisi (THl), Blackfoot (ME)
1460	ɔ̎	CANADIAN SYLLABICS WEST-CREE TWOO	148C	ɱ̈	CANADIAN SYLLABICS CII • Inuktitut (GIl)
1461	ɕ̆	CANADIAN SYLLABICS TWA	148D	j̆	CANADIAN SYLLABICS CO • Inuktitut (GU), Athapascan (DHO), Sayisi (THO), Blackfoot (MI)
1462	ɕ̈	CANADIAN SYLLABICS WEST-CREE TWA	148E	j̈	CANADIAN SYLLABICS COO • Inuktitut (GUU)
1463	ɕ̊	CANADIAN SYLLABICS TWAA	148F	j̋	CANADIAN SYLLABICS Y-CREE COO
1464	ɕ̋	CANADIAN SYLLABICS WEST-CREE TWAA	1490	ɭ̆	CANADIAN SYLLABICS CA • Inuktitut (GA), Athapascan (DHA), Sayisi (THA), Blackfoot (MO)
1465	ɕ̍	CANADIAN SYLLABICS NASKAPI TWAA	1491	ɭ̈	CANADIAN SYLLABICS CAA • Inuktitut (GAAl)
1466	ɕ̎	CANADIAN SYLLABICS T	1492	ɻ̆	CANADIAN SYLLABICS CWE
1467	ɯ̐	CANADIAN SYLLABICS TTE • South Slavey (DEH)	1493	ɻ̈	CANADIAN SYLLABICS WEST-CREE CWE
1468	ɱ̆	CANADIAN SYLLABICS TTl • South Slavey (DIH)	1494	ɹ̆	CANADIAN SYLLABICS CWI
1469	ɔ̑	CANADIAN SYLLABICS TTO • South Slavey (DOH)	1495	ɹ̈	CANADIAN SYLLABICS WEST-CREE CWI
146A	č̣	CANADIAN SYLLABICS TTA • South Slavey (DAH)	1496	ɹ̊	CANADIAN SYLLABICS CWII
146B	ɣ̆	CANADIAN SYLLABICS KE • Inuktitut (KAl), Blackfoot (PA)	1497	ɹ̋	CANADIAN SYLLABICS WEST-CREE CWII
146C	ɸ̆	CANADIAN SYLLABICS KAAI • Inuktitut	1498	ɟ̆	CANADIAN SYLLABICS CWO
146D	p̆	CANADIAN SYLLABICS KI • Blackfoot (PE)	1499	ɟ̈	CANADIAN SYLLABICS WEST-CREE CWO
146E	ɸ̈	CANADIAN SYLLABICS KII	149A	ɟ̊	CANADIAN SYLLABICS CWOO
146F	d̆	CANADIAN SYLLABICS KO • Inuktitut (KU), Sayisi (KU), Blackfoot (Pl)	149B	ɟ̌	CANADIAN SYLLABICS WEST-CREE CWOO
1470	d̈	CANADIAN SYLLABICS KOO • Inuktitut (KUU)	149C	ɫ̆	CANADIAN SYLLABICS CWA
1471	ɖ̆	CANADIAN SYLLABICS Y-CREE KOO	149D	ɫ̈	CANADIAN SYLLABICS WEST-CREE CWA
1472	b̆	CANADIAN SYLLABICS KA • Blackfoot (PO)	149E	ɫ̊	CANADIAN SYLLABICS CWAA
1473	ɬ̆	CANADIAN SYLLABICS KAA	149F	ɫ̋	CANADIAN SYLLABICS WEST-CREE CWAA
1474	ɣ̈	CANADIAN SYLLABICS KWE	14A0	ɭ̆	CANADIAN SYLLABICS NASKAPI CWAA
1475	ɣ̊	CANADIAN SYLLABICS WEST-CREE KWE	14A1	ɥ̆	CANADIAN SYLLABICS C • Inuktitut (G), Sayisi (T)
1476	ɸ̈	CANADIAN SYLLABICS KWI	14A2	ɥ̈	CANADIAN SYLLABICS SAYISI TH • Athapascan (DH)
1477	ɸ̊	CANADIAN SYLLABICS WEST-CREE KWI	14A3	ɿ̆	CANADIAN SYLLABICS ME • Inuktitut (MAI), Blackfoot (TA)
1478	ɸ̌	CANADIAN SYLLABICS KWII	14A4	ɱ̆	CANADIAN SYLLABICS MAAI • Inuktitut
1479	ɸ̍	CANADIAN SYLLABICS WEST-CREE KWII			

14A5	𐀀	CANADIAN SYLLABICS MI • Blackfoot (TE)	14D5	𐀥	CANADIAN SYLLABICS LI
14A6	𐀁	CANADIAN SYLLABICS MII	14D6	𐀦	CANADIAN SYLLABICS LII
14A7	𐀂	CANADIAN SYLLABICS MO • Inuktitut (MU), Sayisi (MU), Blackfoot (TI)	14D7	𐀧	CANADIAN SYLLABICS LO • Inuktitut (LU)
14A8	𐀃	CANADIAN SYLLABICS MOO • Inuktitut (MUU)	14D8	𐀨	CANADIAN SYLLABICS LOO • Inuktitut (LUU)
14A9	𐀄	CANADIAN SYLLABICS Y-CREE MOO	14D9	𐀩	CANADIAN SYLLABICS Y-CREE LOO
14AA	𐀅	CANADIAN SYLLABICS MA • Blackfoot (TO)	14DA	𐀪	CANADIAN SYLLABICS LA
14AB	𐀆	CANADIAN SYLLABICS MAA	14DB	𐀫	CANADIAN SYLLABICS LAA
14AC	𐀇	CANADIAN SYLLABICS MWE	14DC	𐀬	CANADIAN SYLLABICS LWE
14AD	𐀈	CANADIAN SYLLABICS WEST-CREE MWE	14DD	𐀭	CANADIAN SYLLABICS WEST-CREE LWE
14AE	𐀉	CANADIAN SYLLABICS MWI	14DE	𐀮	CANADIAN SYLLABICS LWI
14AF	𐀊	CANADIAN SYLLABICS WEST-CREE MWI	14DF	𐀯	CANADIAN SYLLABICS WEST-CREE LWI
14B0	𐀋	CANADIAN SYLLABICS MWII	14E0	𐀰	CANADIAN SYLLABICS LWII
14B1	𐀌	CANADIAN SYLLABICS WEST-CREE MWII	14E1	𐀱	CANADIAN SYLLABICS WEST-CREE LWII
14B2	𐀍	CANADIAN SYLLABICS MWO	14E2	𐀲	CANADIAN SYLLABICS LWO
14B3	𐀎	CANADIAN SYLLABICS WEST-CREE MWO	14E3	𐀳	CANADIAN SYLLABICS WEST-CREE LWO
14B4	𐀏	CANADIAN SYLLABICS MWOO	14E4	𐀴	CANADIAN SYLLABICS LWOO
14B5	𐀐	CANADIAN SYLLABICS WEST-CREE MWOO	14E5	𐀵	CANADIAN SYLLABICS WEST-CREE LWOO
14B6	𐀑	CANADIAN SYLLABICS MWA	14E6	𐀶	CANADIAN SYLLABICS LWA
14B7	𐀒	CANADIAN SYLLABICS WEST-CREE MWA	14E7	𐀷	CANADIAN SYLLABICS WEST-CREE LWA
14B8	𐀓	CANADIAN SYLLABICS MWAA	14E8	𐀸	CANADIAN SYLLABICS LWAA
14B9	𐀔	CANADIAN SYLLABICS WEST-CREE MWAA	14E9	𐀹	CANADIAN SYLLABICS WEST-CREE LWAA
14BA	𐀕	CANADIAN SYLLABICS NASKAPI MWAA	14EA	𐀺	CANADIAN SYLLABICS L
14BB	𐀖	CANADIAN SYLLABICS M	14EB	𐀻	CANADIAN SYLLABICS WEST-CREE L
14BC	𐀗	CANADIAN SYLLABICS WEST-CREE M • Carrier (M)	14EC	𐀼	CANADIAN SYLLABICS MEDIAL L
14BD	𐀘	CANADIAN SYLLABICS MH	14ED	𐀽	CANADIAN SYLLABICS SE • Inuktitut (SAI), Blackfoot (SA)
14BE	𐀙	CANADIAN SYLLABICS ATHAPASCAN M	14EE	𐀾	CANADIAN SYLLABICS SAAI • Inuktitut
14BF	𐀚	CANADIAN SYLLABICS SAYISI M	14EF	𐀿	CANADIAN SYLLABICS SI • Blackfoot (SE)
14C0	𐀛	CANADIAN SYLLABICS NE • Inuktitut (NAI)	14F0	𐁀	CANADIAN SYLLABICS SII
14C1	𐀜	CANADIAN SYLLABICS NAAI • Inuktitut	14F1	𐁁	CANADIAN SYLLABICS SO • Inuktitut (SU), Sayisi (SU), Blackfoot (SI)
14C2	𐀝	CANADIAN SYLLABICS NI	14F2	𐁂	CANADIAN SYLLABICS SOO • Inuktitut (SUU)
14C3	𐀞	CANADIAN SYLLABICS NII	14F3	𐁃	CANADIAN SYLLABICS Y-CREE SOO
14C4	𐀟	CANADIAN SYLLABICS NO • Inuktitut (NU), Sayisi (NU)	14F4	𐁄	CANADIAN SYLLABICS SA • Blackfoot (SO)
14C5	𐀠	CANADIAN SYLLABICS NOO • Inuktitut (NUU)	14F5	𐁅	CANADIAN SYLLABICS SAA
14C6	𐀡	CANADIAN SYLLABICS Y-CREE NOO	14F6	𐁆	CANADIAN SYLLABICS SWE
14C7	𐀢	CANADIAN SYLLABICS NA	14F7	𐁇	CANADIAN SYLLABICS WEST-CREE SWE
14C8	𐀣	CANADIAN SYLLABICS NAA	14F8	𐁈	CANADIAN SYLLABICS SWI
14C9	𐀤	CANADIAN SYLLABICS NWE	14F9	𐁉	CANADIAN SYLLABICS WEST-CREE SWI
14CA	𐀥	CANADIAN SYLLABICS WEST-CREE NWE	14FA	𐁊	CANADIAN SYLLABICS SWII
14CB	𐀦	CANADIAN SYLLABICS NWA	14FB	𐁋	CANADIAN SYLLABICS WEST-CREE SWII
14CC	𐀧	CANADIAN SYLLABICS WEST-CREE NWA	14FC	𐁌	CANADIAN SYLLABICS SWO
14CD	𐀨	CANADIAN SYLLABICS NWAA	14FD	𐁍	CANADIAN SYLLABICS WEST-CREE SWO
14CE	𐀩	CANADIAN SYLLABICS WEST-CREE NWAA	14FE	𐁎	CANADIAN SYLLABICS SWOO
14CF	𐀪	CANADIAN SYLLABICS NASKAPI NWAA	14FF	𐁏	CANADIAN SYLLABICS WEST-CREE SWOO
14D0	𐀫	CANADIAN SYLLABICS N	1500	𐁐	CANADIAN SYLLABICS SWA
14D1	𐀬	CANADIAN SYLLABICS CARRIER NG	1501	𐁑	CANADIAN SYLLABICS WEST-CREE SWA
14D2	𐀭	CANADIAN SYLLABICS NH	1502	𐁒	CANADIAN SYLLABICS SWAA
14D3	𐀮	CANADIAN SYLLABICS LE • Inuktitut (LAI)	1503	𐁓	CANADIAN SYLLABICS WEST-CREE SWAA
14D4	𐀯	CANADIAN SYLLABICS LAAI • Inuktitut	1504	𐁔	CANADIAN SYLLABICS NASKAPI SWAA
			1505	𐁕	CANADIAN SYLLABICS S
			1506	𐁖	CANADIAN SYLLABICS ATHAPASCAN S
			1507	𐁗	CANADIAN SYLLABICS SW

1508

## Unified Canadian Aboriginal Syllabics

156A

1508	˘	CANADIAN SYLLABICS BLACKFOOT S	153D	⇒	CANADIAN SYLLABICS NASKAPI YWAA
1509	˙	CANADIAN SYLLABICS MOOSE-CREE SK	153E	˘	CANADIAN SYLLABICS Y
150A	˚	CANADIAN SYLLABICS NASKAPI SKW	153F	˘	CANADIAN SYLLABICS BIBLE-CREE Y
150B	˛	CANADIAN SYLLABICS NASKAPI S-W	1540	+	CANADIAN SYLLABICS WEST-CREE Y
150C	˜	CANADIAN SYLLABICS NASKAPI SPWA	1541	×	CANADIAN SYLLABICS SAYISI YI
150D	˜	CANADIAN SYLLABICS NASKAPI STWA	1542	˘	CANADIAN SYLLABICS RE • Inuktitut (RAI)
150E	˜	CANADIAN SYLLABICS NASKAPI SKWA	1543	˘	CANADIAN SYLLABICS R-CREE RE • Athapaskan (LE)
150F	˜	CANADIAN SYLLABICS NASKAPI SCWA	1544	˘	CANADIAN SYLLABICS WEST-CREE LE • Athapaskan (LI)
1510	˘	CANADIAN SYLLABICS SHE	1545	˘	CANADIAN SYLLABICS RAAI • Inuktitut
1511	˘	CANADIAN SYLLABICS SHI	1546	˘	CANADIAN SYLLABICS RI
1512	˘	CANADIAN SYLLABICS SHII	1547	˘	CANADIAN SYLLABICS RII
1513	˘	CANADIAN SYLLABICS SHO	1548	˘	CANADIAN SYLLABICS RO • Inuktitut (RU)
1514	˘	CANADIAN SYLLABICS SHOO	1549	˘	CANADIAN SYLLABICS ROO • Inuktitut (RUU)
1515	˘	CANADIAN SYLLABICS SHA	154A	˘	CANADIAN SYLLABICS WEST-CREE LO • Sayisi (LU)
1516	˘	CANADIAN SYLLABICS SHAA	154B	˘	CANADIAN SYLLABICS RA
1517	˘	CANADIAN SYLLABICS SHWE	154C	˘	CANADIAN SYLLABICS RAA
1518	˘	CANADIAN SYLLABICS WEST-CREE SHWE	154D	˘	CANADIAN SYLLABICS WEST-CREE LA
1519	˘	CANADIAN SYLLABICS SHWI	154E	˘	CANADIAN SYLLABICS RWAA
151A	˘	CANADIAN SYLLABICS WEST-CREE SHWI	154F	˘	CANADIAN SYLLABICS WEST-CREE RWAA
151B	˘	CANADIAN SYLLABICS SHWII	1550	˘	CANADIAN SYLLABICS R
151C	˘	CANADIAN SYLLABICS WEST-CREE SHWII	1551	˘	CANADIAN SYLLABICS WEST-CREE R
151D	˘	CANADIAN SYLLABICS SHWO	1552	˘	CANADIAN SYLLABICS MEDIAL R
151E	˘	CANADIAN SYLLABICS WEST-CREE SHWO	1553	˘	CANADIAN SYLLABICS FE • Inuktitut (FAI)
151F	˘	CANADIAN SYLLABICS SHWO	1554	˘	CANADIAN SYLLABICS FAAI • Inuktitut
1520	˘	CANADIAN SYLLABICS WEST-CREE SHWO	1555	˘	CANADIAN SYLLABICS FI
1521	˘	CANADIAN SYLLABICS SHWA	1556	˘	CANADIAN SYLLABICS FII
1522	˘	CANADIAN SYLLABICS WEST-CREE SHWA	1557	˘	CANADIAN SYLLABICS FO
1523	˘	CANADIAN SYLLABICS SHWAA	1558	˘	CANADIAN SYLLABICS FOO
1524	˘	CANADIAN SYLLABICS WEST-CREE SHWAA	1559	˘	CANADIAN SYLLABICS FA
1525	˘	CANADIAN SYLLABICS SH	155A	˘	CANADIAN SYLLABICS FAA
1526	˘	CANADIAN SYLLABICS YE • Inuktitut (YAI), Blackfoot (YA)	155B	˘	CANADIAN SYLLABICS FWAA
1527	˘	CANADIAN SYLLABICS YAAI • Inuktitut	155C	˘	CANADIAN SYLLABICS WEST-CREE FWAA
1528	˘	CANADIAN SYLLABICS YI • Blackfoot (YE)	155D	˘	CANADIAN SYLLABICS F
1529	˘	CANADIAN SYLLABICS YII	155E	˘	CANADIAN SYLLABICS THE • Sayisi (TE)
152A	˘	CANADIAN SYLLABICS YO • Inuktitut (YU), Blackfoot (YI)	155F	˘	CANADIAN SYLLABICS N-CREE THE
152B	˘	CANADIAN SYLLABICS YOO • Inuktitut (YUU)	1560	˘	CANADIAN SYLLABICS THI • Sayisi (TI)
152C	˘	CANADIAN SYLLABICS Y-CREE YOO	1561	˘	CANADIAN SYLLABICS N-CREE THI
152D	˘	CANADIAN SYLLABICS YA • Blackfoot (YO)	1562	˘	CANADIAN SYLLABICS THII
152E	˘	CANADIAN SYLLABICS YAA	1563	˘	CANADIAN SYLLABICS N-CREE THII
152F	˘	CANADIAN SYLLABICS YWE	1564	˘	CANADIAN SYLLABICS THO • Sayisi (TU)
1530	˘	CANADIAN SYLLABICS WEST-CREE YWE	1565	˘	CANADIAN SYLLABICS THOO
1531	˘	CANADIAN SYLLABICS YWI	1566	˘	CANADIAN SYLLABICS THA • Sayisi (TA)
1532	˘	CANADIAN SYLLABICS WEST-CREE YWI	1567	˘	CANADIAN SYLLABICS THAA
1533	˘	CANADIAN SYLLABICS YWII	1568	˘	CANADIAN SYLLABICS THWAA
1534	˘	CANADIAN SYLLABICS WEST-CREE YWII	1569	˘	CANADIAN SYLLABICS WEST-CREE THWAA
1535	˘	CANADIAN SYLLABICS YWO	156A	˘	CANADIAN SYLLABICS TH
1536	˘	CANADIAN SYLLABICS WEST-CREE YWO			
1537	˘	CANADIAN SYLLABICS YWOO			
1538	˘	CANADIAN SYLLABICS WEST-CREE YWOO			
1539	˘	CANADIAN SYLLABICS YWA			
153A	˘	CANADIAN SYLLABICS WEST-CREE YWA			
153B	˘	CANADIAN SYLLABICS YWAA			
153C	˘	CANADIAN SYLLABICS WEST-CREE YWAA			

156B	ᑭ	CANADIAN SYLLABICS TTHE	1597	ᑭ	CANADIAN SYLLABICS SAYISI SHE
156C	ᑭ	CANADIAN SYLLABICS TTHI	1598	ᑭ	CANADIAN SYLLABICS SAYISI SHI
156D	ᑭ	CANADIAN SYLLABICS TTHO	1599	ᑭ	CANADIAN SYLLABICS SAYISI SHO
		• Sayisi (TTHU)			• Sayisi (SHU)
156E	ᑭ	CANADIAN SYLLABICS TTHA	159A	ᑭ	CANADIAN SYLLABICS SAYISI SHA
156F	**	CANADIAN SYLLABICS TTH	159B	ᑭ	CANADIAN SYLLABICS WOODS-CREE THE
		• probably a mistaken interpretation of an asterisk used to mark a proper noun → 002A * asterisk	159C	ᑭ	CANADIAN SYLLABICS WOODS-CREE THI
1570	ᑭ	CANADIAN SYLLABICS TYE	159D	ᑭ	CANADIAN SYLLABICS WOODS-CREE THO
1571	ᑭ	CANADIAN SYLLABICS TYI	159E	ᑭ	CANADIAN SYLLABICS WOODS-CREE THA
1572	ᑭ	CANADIAN SYLLABICS TYO	159F	ᑭ	CANADIAN SYLLABICS WOODS-CREE TH
1573	ᑭ	CANADIAN SYLLABICS TYA	15A0	ᑭ	CANADIAN SYLLABICS LHI
1574	ᑭ	CANADIAN SYLLABICS NUNAVIK HE	15A1	ᑭ	CANADIAN SYLLABICS LHII
1575	ᑭ	CANADIAN SYLLABICS NUNAVIK HI	15A2	ᑭ	CANADIAN SYLLABICS LHO
1576	ᑭ	CANADIAN SYLLABICS NUNAVIK HII			• Inuktitut (LHU)
1577	ᑭ	CANADIAN SYLLABICS NUNAVIK HO	15A3	ᑭ	CANADIAN SYLLABICS LHOO
1578	ᑭ	CANADIAN SYLLABICS NUNAVIK HOO			• Inuktitut (LHUU)
1579	ᑭ	CANADIAN SYLLABICS NUNAVIK HA	15A4	ᑭ	CANADIAN SYLLABICS LHA
157A	ᑭ	CANADIAN SYLLABICS NUNAVIK HAA	15A5	ᑭ	CANADIAN SYLLABICS LHAA
157B	ᑭ	CANADIAN SYLLABICS NUNAVIK H	15A6	ᑭ	CANADIAN SYLLABICS LH
157C	H	CANADIAN SYLLABICS NUNAVUT H	15A7	ᑭ	CANADIAN SYLLABICS TH-CREE THE
157D	×	CANADIAN SYLLABICS HK	15A8	ᑭ	CANADIAN SYLLABICS TH-CREE THI
		• Algonquian	15A9	ᑭ	CANADIAN SYLLABICS TH-CREE THII
157E	ᑭ	CANADIAN SYLLABICS QAAI	15AA	ᑭ	CANADIAN SYLLABICS TH-CREE THO
		• Inuktitut	15AB	ᑭ	CANADIAN SYLLABICS TH-CREE THOO
157F	ᑭ	CANADIAN SYLLABICS QI	15AC	ᑭ	CANADIAN SYLLABICS TH-CREE THA
1580	ᑭ	CANADIAN SYLLABICS QII	15AD	ᑭ	CANADIAN SYLLABICS TH-CREE THAA
1581	ᑭ	CANADIAN SYLLABICS QO	15AE	ᑭ	CANADIAN SYLLABICS TH-CREE TH
		• Inuktitut (QU)	15AF	ᑭ	CANADIAN SYLLABICS AIVILIK B
1582	ᑭ	CANADIAN SYLLABICS QOO	15B0	ᑭ	CANADIAN SYLLABICS BLACKFOOT E
		• Inuktitut (QUU)	15B1	ᑭ	CANADIAN SYLLABICS BLACKFOOT I
1583	ᑭ	CANADIAN SYLLABICS QA	15B2	ᑭ	CANADIAN SYLLABICS BLACKFOOT O
1584	ᑭ	CANADIAN SYLLABICS QAA	15B3	ᑭ	CANADIAN SYLLABICS BLACKFOOT A
1585	ᑭ	CANADIAN SYLLABICS Q	15B4	ᑭ	CANADIAN SYLLABICS BLACKFOOT WE
1586	ᑭ	CANADIAN SYLLABICS TLHE	15B5	ᑭ	CANADIAN SYLLABICS BLACKFOOT WI
		• Sayisi (KLE)	15B6	ᑭ	CANADIAN SYLLABICS BLACKFOOT WO
1587	ᑭ	CANADIAN SYLLABICS TLHI	15B7	ᑭ	CANADIAN SYLLABICS BLACKFOOT WA
		• Sayisi (KLI)	15B8	ᑭ	CANADIAN SYLLABICS BLACKFOOT NE
1588	ᑭ	CANADIAN SYLLABICS TLHO	15B9	ᑭ	CANADIAN SYLLABICS BLACKFOOT NI
		• Sayisi (KLU)	15BA	ᑭ	CANADIAN SYLLABICS BLACKFOOT NO
1589	ᑭ	CANADIAN SYLLABICS TLHA	15BB	ᑭ	CANADIAN SYLLABICS BLACKFOOT NA
		• Sayisi (KLA)	15BC	ᑭ	CANADIAN SYLLABICS BLACKFOOT KE
158A	ᑭ	CANADIAN SYLLABICS WEST-CREE RE	15BD	ᑭ	CANADIAN SYLLABICS BLACKFOOT KI
158B	ᑭ	CANADIAN SYLLABICS WEST-CREE RI	15BE	ᑭ	CANADIAN SYLLABICS BLACKFOOT KO
158C	ᑭ	CANADIAN SYLLABICS WEST-CREE RO	15BF	ᑭ	CANADIAN SYLLABICS BLACKFOOT KA
158D	ᑭ	CANADIAN SYLLABICS WEST-CREE RA	15C0	ᑭ	CANADIAN SYLLABICS SAYISI HE
158E	ᑭ	CANADIAN SYLLABICS NGAAI	15C1	ᑭ	CANADIAN SYLLABICS SAYISI HI
		• Inuktitut	15C2	ᑭ	CANADIAN SYLLABICS SAYISI HO
158F	ᑭ	CANADIAN SYLLABICS NGI			• Sayisi (HU)
1590	ᑭ	CANADIAN SYLLABICS NGII	15C3	ᑭ	CANADIAN SYLLABICS SAYISI HA
1591	ᑭ	CANADIAN SYLLABICS NGO	15C4	ᑭ	CANADIAN SYLLABICS CARRIER GHU
		• Inuktitut (NGU)	15C5	ᑭ	CANADIAN SYLLABICS CARRIER GH
1592	ᑭ	CANADIAN SYLLABICS NGOO	15C6	ᑭ	CANADIAN SYLLABICS CARRIER GHE
		• Inuktitut (NGUU)	15C7	ᑭ	CANADIAN SYLLABICS CARRIER GHEE
1593	ᑭ	CANADIAN SYLLABICS NGA	15C8	ᑭ	CANADIAN SYLLABICS CARRIER GHI
1594	ᑭ	CANADIAN SYLLABICS NGAA	15C9	ᑭ	CANADIAN SYLLABICS CARRIER GHA
1595	ᑭ	CANADIAN SYLLABICS NG	15CA	ᑭ	CANADIAN SYLLABICS CARRIER RU
1596	ᑭ	CANADIAN SYLLABICS NNG	15CB	ᑭ	CANADIAN SYLLABICS CARRIER RO
			15CC	ᑭ	CANADIAN SYLLABICS CARRIER RE
			15CD	ᑭ	CANADIAN SYLLABICS CARRIER REE

15CE

## Unified Canadian Aboriginal Syllabics

163D

15CE	➤	CANADIAN SYLLABICS CARRIER RI	1609	ᑖ	CANADIAN SYLLABICS CARRIER MO
15CF	◄	CANADIAN SYLLABICS CARRIER RA	160A	ᑗ	CANADIAN SYLLABICS CARRIER ME
15D0	∇	CANADIAN SYLLABICS CARRIER WU	160B	ᑘ	CANADIAN SYLLABICS CARRIER MEE
15D1	⋈	CANADIAN SYLLABICS CARRIER WO	160C	ᑙ	CANADIAN SYLLABICS CARRIER MI
15D2	➤	CANADIAN SYLLABICS CARRIER WE	160D	ᑚ	CANADIAN SYLLABICS CARRIER MA
15D3	➤	CANADIAN SYLLABICS CARRIER WEE	160E	ᑛ	CANADIAN SYLLABICS CARRIER YU
15D4	➤	CANADIAN SYLLABICS CARRIER WI	160F	ᑜ	CANADIAN SYLLABICS CARRIER YO
15D5	◄	CANADIAN SYLLABICS CARRIER WA	1610	ᑝ	CANADIAN SYLLABICS CARRIER YE
15D6	ψ	CANADIAN SYLLABICS CARRIER HWU	1611	ᑞ	CANADIAN SYLLABICS CARRIER YEE
15D7	⋈	CANADIAN SYLLABICS CARRIER HWO	1612	ᑟ	CANADIAN SYLLABICS CARRIER YI
15D8	➤	CANADIAN SYLLABICS CARRIER HWE	1613	ᑠ	CANADIAN SYLLABICS CARRIER YA
15D9	➤	CANADIAN SYLLABICS CARRIER HWEE	1614	ᑡ	CANADIAN SYLLABICS CARRIER JU
15DA	➤	CANADIAN SYLLABICS CARRIER HWI			• Athapascan (ZA), Sayisi (TZO), South Slavey (DHA)
15DB	◄	CANADIAN SYLLABICS CARRIER HWA	1615	ᑢ	CANADIAN SYLLABICS SAYISI JU
15DC	□	CANADIAN SYLLABICS CARRIER THU			• Athapascan (ZO), Sayisi (TZU), South Slavey (DHO)
15DD	□	CANADIAN SYLLABICS CARRIER THO	1616	ᑣ	CANADIAN SYLLABICS CARRIER JO
15DE	D	CANADIAN SYLLABICS CARRIER THE	1617	ᑤ	CANADIAN SYLLABICS CARRIER JE
15DF	ᑦ	CANADIAN SYLLABICS CARRIER THEE	1618	ᑥ	CANADIAN SYLLABICS CARRIER JEE
15E0	ᑦ	CANADIAN SYLLABICS CARRIER THI	1619	ᑦ	CANADIAN SYLLABICS CARRIER JI
15E1	□	CANADIAN SYLLABICS CARRIER THA	161A	ᑧ	CANADIAN SYLLABICS SAYISI JI
15E2	ᑦ	CANADIAN SYLLABICS CARRIER TTU			• Athapascan (ZE), Sayisi (TZE), South Slavey (DHE)
15E3	ᑦ	CANADIAN SYLLABICS CARRIER TTO	161B	ᑨ	CANADIAN SYLLABICS CARRIER JA
15E4	ᑦ	CANADIAN SYLLABICS CARRIER TTE			• Athapascan (ZI), Sayisi (TZI), South Slavey (DHI)
15E5	ᑦ	CANADIAN SYLLABICS CARRIER TTEE	161C	ᑩ	CANADIAN SYLLABICS CARRIER JJU
15E6	ᑦ	CANADIAN SYLLABICS CARRIER TTI	161D	ᑪ	CANADIAN SYLLABICS CARRIER JJO
15E7	ᑦ	CANADIAN SYLLABICS CARRIER TTA	161E	ᑫ	CANADIAN SYLLABICS CARRIER JJE
15E8	ᑦ	CANADIAN SYLLABICS CARRIER PU	161F	ᑬ	CANADIAN SYLLABICS CARRIER JEE
15E9	ᑦ	CANADIAN SYLLABICS CARRIER PO	1620	ᑭ	CANADIAN SYLLABICS CARRIER JJI
15EA	D	CANADIAN SYLLABICS CARRIER PE	1621	ᑬ	CANADIAN SYLLABICS CARRIER JJA
15EB	ᑦ	CANADIAN SYLLABICS CARRIER PEE	1622	ᑭ	CANADIAN SYLLABICS CARRIER LU
15EC	ᑦ	CANADIAN SYLLABICS CARRIER PI	1623	ᑬ	CANADIAN SYLLABICS CARRIER LO
15ED	ᑦ	CANADIAN SYLLABICS CARRIER PA	1624	ᑭ	CANADIAN SYLLABICS CARRIER LE
15EE	+	CANADIAN SYLLABICS CARRIER P	1625	ᑭ	CANADIAN SYLLABICS CARRIER LEE
15EF	ᑭ	CANADIAN SYLLABICS CARRIER GU	1626	ᑭ	CANADIAN SYLLABICS CARRIER LI
15F0	ᑭ	CANADIAN SYLLABICS CARRIER GO	1627	ᑭ	CANADIAN SYLLABICS CARRIER LA
15F1	ᑭ	CANADIAN SYLLABICS CARRIER GE	1628	ᑭ	CANADIAN SYLLABICS CARRIER DLU
15F2	ᑭ	CANADIAN SYLLABICS CARRIER GEE	1629	ᑭ	CANADIAN SYLLABICS CARRIER DLO
15F3	ᑭ	CANADIAN SYLLABICS CARRIER GI	162A	ᑭ	CANADIAN SYLLABICS CARRIER DLE
15F4	ᑭ	CANADIAN SYLLABICS CARRIER GA	162B	ᑭ	CANADIAN SYLLABICS CARRIER DLEE
15F5	ᑭ	CANADIAN SYLLABICS CARRIER KHU	162C	ᑭ	CANADIAN SYLLABICS CARRIER DLI
15F6	ᑭ	CANADIAN SYLLABICS CARRIER KHO	162D	ᑭ	CANADIAN SYLLABICS CARRIER DLA
15F7	ᑭ	CANADIAN SYLLABICS CARRIER KHE	162E	ᑭ	CANADIAN SYLLABICS CARRIER LHU
15F8	ᑭ	CANADIAN SYLLABICS CARRIER KHEE	162F	ᑭ	CANADIAN SYLLABICS CARRIER LHO
15F9	ᑭ	CANADIAN SYLLABICS CARRIER KHI	1630	ᑭ	CANADIAN SYLLABICS CARRIER LHE
15FA	ᑭ	CANADIAN SYLLABICS CARRIER KHA	1631	ᑭ	CANADIAN SYLLABICS CARRIER LHEE
15FB	ᑭ	CANADIAN SYLLABICS CARRIER KKU	1632	ᑭ	CANADIAN SYLLABICS CARRIER LHI
15FC	ᑭ	CANADIAN SYLLABICS CARRIER KKO	1633	ᑭ	CANADIAN SYLLABICS CARRIER LHA
15FD	ᑭ	CANADIAN SYLLABICS CARRIER KKE	1634	ᑭ	CANADIAN SYLLABICS CARRIER TLHU
15FE	ᑭ	CANADIAN SYLLABICS CARRIER KKEE	1635	ᑭ	CANADIAN SYLLABICS CARRIER TLHO
15FF	ᑭ	CANADIAN SYLLABICS CARRIER KKI	1636	ᑭ	CANADIAN SYLLABICS CARRIER TLHE
1600	ᑭ	CANADIAN SYLLABICS CARRIER KKA	1637	ᑭ	CANADIAN SYLLABICS CARRIER TLHEE
1601	ᑭ	CANADIAN SYLLABICS CARRIER KK	1638	ᑭ	CANADIAN SYLLABICS CARRIER TLHI
1602	ᑭ	CANADIAN SYLLABICS CARRIER NU	1639	ᑭ	CANADIAN SYLLABICS CARRIER TLHA
1603	ᑭ	CANADIAN SYLLABICS CARRIER NO	163A	ᑭ	CANADIAN SYLLABICS CARRIER TLU
1604	ᑭ	CANADIAN SYLLABICS CARRIER NE	163B	ᑭ	CANADIAN SYLLABICS CARRIER TLO
1605	ᑭ	CANADIAN SYLLABICS CARRIER NEE	163C	ᑭ	CANADIAN SYLLABICS CARRIER TLE
1606	ᑭ	CANADIAN SYLLABICS CARRIER NI	163D	ᑭ	CANADIAN SYLLABICS CARRIER TLEE
1607	ᑭ	CANADIAN SYLLABICS CARRIER NA			
1608	ᑭ	CANADIAN SYLLABICS CARRIER MU			

163E	ᑭ	CANADIAN SYLLABICS CARRIER TLI
163F	ᑭᑦ	CANADIAN SYLLABICS CARRIER TLA
1640	ᑭᑦ	CANADIAN SYLLABICS CARRIER ZU
1641	ᑭᑦ	CANADIAN SYLLABICS CARRIER ZO
1642	ᑭᑦ	CANADIAN SYLLABICS CARRIER ZE
1643	ᑭᑦ	CANADIAN SYLLABICS CARRIER ZEE
1644	ᑭᑦ	CANADIAN SYLLABICS CARRIER ZI
1645	ᑭᑦ	CANADIAN SYLLABICS CARRIER ZA
1646	ᑭᑦ	CANADIAN SYLLABICS CARRIER Z
1647	ᑭᑦ	CANADIAN SYLLABICS CARRIER INITIAL Z
1648	ᑭᑦ	CANADIAN SYLLABICS CARRIER DZU
1649	ᑭᑦ	CANADIAN SYLLABICS CARRIER DZO
164A	ᑭᑦ	CANADIAN SYLLABICS CARRIER DZE
164B	ᑭᑦ	CANADIAN SYLLABICS CARRIER DZEE
164C	ᑭᑦ	CANADIAN SYLLABICS CARRIER DZI
164D	ᑭᑦ	CANADIAN SYLLABICS CARRIER DZA
164E	ᑭᑦ	CANADIAN SYLLABICS CARRIER SU
164F	ᑭᑦ	CANADIAN SYLLABICS CARRIER SO
1650	ᑭᑦ	CANADIAN SYLLABICS CARRIER SE
1651	ᑭᑦ	CANADIAN SYLLABICS CARRIER SEE
1652	ᑭᑦ	CANADIAN SYLLABICS CARRIER SI
1653	ᑭᑦ	CANADIAN SYLLABICS CARRIER SA
1654	ᑭᑦ	CANADIAN SYLLABICS CARRIER SHU
1655	ᑭᑦ	CANADIAN SYLLABICS CARRIER SHO
1656	ᑭᑦ	CANADIAN SYLLABICS CARRIER SHE
1657	ᑭᑦ	CANADIAN SYLLABICS CARRIER SHEE
1658	ᑭᑦ	CANADIAN SYLLABICS CARRIER SHI
1659	ᑭᑦ	CANADIAN SYLLABICS CARRIER SHA
165A	ᑭᑦ	CANADIAN SYLLABICS CARRIER SH
165B	ᑭᑦ	CANADIAN SYLLABICS CARRIER TSU
165C	ᑭᑦ	CANADIAN SYLLABICS CARRIER TSO
165D	ᑭᑦ	CANADIAN SYLLABICS CARRIER TSE
165E	ᑭᑦ	CANADIAN SYLLABICS CARRIER TSEE
165F	ᑭᑦ	CANADIAN SYLLABICS CARRIER TSI
1660	ᑭᑦ	CANADIAN SYLLABICS CARRIER TSA
1661	ᑭᑦ	CANADIAN SYLLABICS CARRIER CHU
1662	ᑭᑦ	CANADIAN SYLLABICS CARRIER CHO
1663	ᑭᑦ	CANADIAN SYLLABICS CARRIER CHE
1664	ᑭᑦ	CANADIAN SYLLABICS CARRIER CHEE
1665	ᑭᑦ	CANADIAN SYLLABICS CARRIER CHI
1666	ᑭᑦ	CANADIAN SYLLABICS CARRIER CHA
1667	ᑭᑦ	CANADIAN SYLLABICS CARRIER TTSU
1668	ᑭᑦ	CANADIAN SYLLABICS CARRIER TTSO
1669	ᑭᑦ	CANADIAN SYLLABICS CARRIER TTSE
166A	ᑭᑦ	CANADIAN SYLLABICS CARRIER TTSEE
166B	ᑭᑦ	CANADIAN SYLLABICS CARRIER TTSI
166C	ᑭᑦ	CANADIAN SYLLABICS CARRIER TTSA

**Symbol**

166D	×	CANADIAN SYLLABICS CHI SIGN
		• Algonquian
		• used as a symbol to denote Christ
		→ 2627 ϰ chi rho

**Punctuation**




























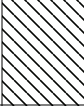

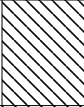

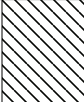
166E	×	CANADIAN SYLLABICS FULL STOP
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**Syllables**

166F	ᑭᑦ	CANADIAN SYLLABICS QAI
1670	ᑭᑦ	CANADIAN SYLLABICS NGAI

1671	ᑭᑦ	CANADIAN SYLLABICS NNGI
1672	ᑭᑦ	CANADIAN SYLLABICS NNGII
1673	ᑭᑦ	CANADIAN SYLLABICS NNGO
		• Inuktitut (NNGU)
1674	ᑭᑦ	CANADIAN SYLLABICS NNGOO
		• Inuktitut (NNGUU)
1675	ᑭᑦ	CANADIAN SYLLABICS NNGA
1676	ᑭᑦ	CANADIAN SYLLABICS NNGAA
1677	ᑭᑦ	CANADIAN SYLLABICS WOODS-CREE THWEE
1678	ᑭᑦ	CANADIAN SYLLABICS WOODS-CREE THWI
1679	ᑭᑦ	CANADIAN SYLLABICS WOODS-CREE THWII
167A	ᑭᑦ	CANADIAN SYLLABICS WOODS-CREE THWO
167B	ᑭᑦ	CANADIAN SYLLABICS WOODS-CREE THWOO
167C	ᑭᑦ	CANADIAN SYLLABICS WOODS-CREE THWA
167D	ᑭᑦ	CANADIAN SYLLABICS WOODS-CREE THWAA
167E	×	CANADIAN SYLLABICS WOODS-CREE FINAL TH
167F	×	CANADIAN SYLLABICS BLACKFOOT W























	168	169
0	 1680	 1690
1	 1681	 1691
2	 1682	 1692
3	 1683	 1693
4	 1684	 1694
5	 1685	 1695
6	 1686	 1696
7	 1687	 1697
8	 1688	 1698
9	 1689	 1699
A	 168A	 169A
B	 168B	 169B
C	 168C	 169C
D	 168D	
E	 168E	
F	 168F	

*An Ogham font typically displays all Ogham characters with a visible stemline, representing the edge of monumental Ogham inscriptions.*







#### Punctuation

- 1680  OGHAM SPACE MARK  
 • glyph is blank in “stemless” style fonts  
 → 0020  space



#### Traditional letters


















































































- 1681  OGHAM LETTER BEITH  
 1682  OGHAM LETTER LUIS  
 1683  OGHAM LETTER FEARN  
 1684  OGHAM LETTER SAIL  
 1685  OGHAM LETTER NION  
 1686  OGHAM LETTER UATH  
 1687  OGHAM LETTER DAIR  
 1688  OGHAM LETTER TINNE  
 1689  OGHAM LETTER COLL  
 168A  OGHAM LETTER CEIRT  
 168B  OGHAM LETTER MUIN  
 168C  OGHAM LETTER GORT  
 168D  OGHAM LETTER NGEADAL  
 168E  OGHAM LETTER STRAIF  
 168F  OGHAM LETTER RUIS  
 1690  OGHAM LETTER AILM  
 1691  OGHAM LETTER ONN  
 1692  OGHAM LETTER UR  
 1693  OGHAM LETTER EADHADH  
 1694  OGHAM LETTER IODHADH

#### Forfeda (supplementary letters)

- 1695  OGHAM LETTER EABHADH  
 1696  OGHAM LETTER OR  
 1697  OGHAM LETTER UILLEANN  
 1698  OGHAM LETTER IFIN  
 1699  OGHAM LETTER EAMHANCHOLL  
 169A  OGHAM LETTER PEITH

#### Punctuation

- 169B  OGHAM FEATHER MARK  
 • marks beginning of Ogham text  
 169C  OGHAM REVERSED FEATHER MARK  
 • marks end of Ogham text

	16A	16B	16C	16D	16E	16F
0	 16A0	 16B0	 16C0	 16D0	 16E0	 16F0
1	 16A1	 16B1	 16C1	 16D1	 16E1	
2	 16A2	 16B2	 16C2	 16D2	 16E2	
3	 16A3	 16B3	 16C3	 16D3	 16E3	
4	 16A4	 16B4	 16C4	 16D4	 16E4	
5	 16A5	 16B5	 16C5	 16D5	 16E5	
6	 16A6	 16B6	 16C6	 16D6	 16E6	
7	 16A7	 16B7	 16C7	 16D7	 16E7	
8	 16A8	 16B8	 16C8	 16D8	 16E8	
9	 16A9	 16B9	 16C9	 16D9	 16E9	
A	 16AA	 16BA	 16CA	 16DA	 16EA	
B	 16AB	 16BB	 16CB	 16DB	 16EB	
C	 16AC	 16BC	 16CC	 16DC	 16EC	
D	 16AD	 16BD	 16CD	 16DD	 16ED	
E	 16AE	 16BE	 16CE	 16DE	 16EE	
F	 16AF	 16BF	 16CF	 16DF	 16EF	

## 16A0

**Letters**

16A0	𐌰	RUNIC LETTER FEHU FEOH FE F
16A1	𐌱	RUNIC LETTER V
16A2	𐌲	RUNIC LETTER URUZ UR U
16A3	𐌳	RUNIC LETTER YR
16A4	𐌴	RUNIC LETTER Y
16A5	𐌵	RUNIC LETTER W
16A6	𐌶	RUNIC LETTER THURISAZ THURS THORN → 00FE 𐍪 latin small letter thorn
16A7	𐌷	RUNIC LETTER ETH
16A8	𐌸	RUNIC LETTER ANSUZ A
16A9	𐌹	RUNIC LETTER OS O
16AA	𐌺	RUNIC LETTER AC A
16AB	𐌻	RUNIC LETTER AESC
16AC	𐌼	RUNIC LETTER LONG-BRANCH-OSS O
16AD	𐌽	RUNIC LETTER SHORT-TWIG-OSS O
16AE	𐌾	RUNIC LETTER O
16AF	𐌿	RUNIC LETTER OE
16B0	𐍀	RUNIC LETTER ON
16B1	𐍁	RUNIC LETTER RAIDO RAD REID R
16B2	𐍂	RUNIC LETTER KAUNA
16B3	𐍃	RUNIC LETTER CEN
16B4	𐍄	RUNIC LETTER KAUN K
16B5	𐍅	RUNIC LETTER G
16B6	𐍆	RUNIC LETTER ENG
16B7	𐍇	RUNIC LETTER GEBO GYFU G
16B8	𐍈	RUNIC LETTER GAR
16B9	𐍉	RUNIC LETTER WUNJO WYNN W → 01BF 𐍯 latin letter wynn
16BA	𐍊	RUNIC LETTER HAGLAZ H
16BB	𐍋	RUNIC LETTER HAEG L
16BC	𐍌	RUNIC LETTER LONG-BRANCH-HAGALL H
16BD	𐍍	RUNIC LETTER SHORT-TWIG-HAGALL H
16BE	𐍎	RUNIC LETTER NAUDIZ NYD NAUD N
16BF	𐍏	RUNIC LETTER SHORT-TWIG-NAUD N
16C0	𐍐	RUNIC LETTER DOTTED-N
16C1	𐍑	RUNIC LETTER ISAZ IS ISS I
16C2	𐍒	RUNIC LETTER E
16C3	𐍓	RUNIC LETTER JERAN J
16C4	𐍔	RUNIC LETTER GER
16C5	𐍕	RUNIC LETTER LONG-BRANCH-AR AE
16C6	𐍖	RUNIC LETTER SHORT-TWIG-AR A
16C7	𐍗	RUNIC LETTER IWAZ EOH
16C8	𐍘	RUNIC LETTER PERTHO PEORTH P
16C9	𐍙	RUNIC LETTER ALGIZ EOLHX
16CA	𐍚	RUNIC LETTER SOWILO S
16CB	𐍛	RUNIC LETTER SIGEL LONG-BRANCH-SOL S
16CC	𐍜	RUNIC LETTER SHORT-TWIG-SOL S
16CD	𐍝	RUNIC LETTER C
16CE	𐍞	RUNIC LETTER Z
16CF	𐍟	RUNIC LETTER TIWAZ TIR TYR T
16D0	𐍠	RUNIC LETTER SHORT-TWIG-TYR T
16D1	𐍡	RUNIC LETTER D
16D2	𐍢	RUNIC LETTER BERKANAN BEORC BJARKAN B
16D3	𐍣	RUNIC LETTER SHORT-TWIG-BJARKAN B
16D4	𐍤	RUNIC LETTER DOTTED-P
16D5	𐍥	RUNIC LETTER OPEN-P
16D6	𐍦	RUNIC LETTER EHWAZ EH E
16D7	𐍧	RUNIC LETTER MANNAZ MAN M

## Runic

## 16F0





















16D8	𐍨	RUNIC LETTER LONG-BRANCH-MADR M
16D9	𐍩	RUNIC LETTER SHORT-TWIG-MADR M
16DA	𐍪	RUNIC LETTER LAUKAZ LAGU LOGR L
16DB	𐍫	RUNIC LETTER DOTTED-L
16DC	𐍬	RUNIC LETTER INGWAZ
16DD	𐍭	RUNIC LETTER ING
16DE	𐍮	RUNIC LETTER DAGAZ DAEG D
16DF	𐍯	RUNIC LETTER OTHALAN ETHEL O
16E0	𐍰	RUNIC LETTER EAR
16E1	𐍱	RUNIC LETTER IOR
16E2	𐍲	RUNIC LETTER CWEORTH
16E3	𐍳	RUNIC LETTER CALC
16E4	𐍴	RUNIC LETTER CEALC
16E5	𐍵	RUNIC LETTER STAN
16E6	𐍶	RUNIC LETTER LONG-BRANCH-YR
16E7	𐍷	RUNIC LETTER SHORT-TWIG-YR
16E8	𐍸	RUNIC LETTER ICELANDIC-YR
16E9	𐍹	RUNIC LETTER Q
16EA	𐍺	RUNIC LETTER X

**Punctuation**




16EB	•	RUNIC SINGLE PUNCTUATION
16EC	:	RUNIC MULTIPLE PUNCTUATION
16ED	✱	RUNIC CROSS PUNCTUATION

**Golden number runes**
















16EE	𐍻	RUNIC ARLAUG SYMBOL • golden number 17
16EF	𐍼	RUNIC TVIMADUR SYMBOL • golden number 18
16F0	𐍽	RUNIC BELGTHOR SYMBOL • golden number 19

	170	171
0	 1700	 1710
1	 1701	 1711
2	 1702	 1712
3	 1703	 1713
4	 1704	 1714
5	 1705	
6	 1706	
7	 1707	
8	 1708	
9	 1709	
A	 170A	
B	 170B	
C	 170C	
D		
E	 170E	
F	 170F	



**Independent vowels**

1700  TAGALOG LETTER A  
 1701  TAGALOG LETTER I  
 1702  TAGALOG LETTER U

**Consonants**
























1703  TAGALOG LETTER KA  
 1704  TAGALOG LETTER GA  
 1705  TAGALOG LETTER NGA  
 1706  TAGALOG LETTER TA  
 1707  TAGALOG LETTER DA  
 1708  TAGALOG LETTER NA  
 1709  TAGALOG LETTER PA  
 170A  TAGALOG LETTER BA  
 170B  TAGALOG LETTER MA  
 170C  TAGALOG LETTER YA  
 170D  <reserved>  
 170E  TAGALOG LETTER LA  
 170F  TAGALOG LETTER WA  
 1710  TAGALOG LETTER SA  
 1711  TAGALOG LETTER HA

**Dependent vowel signs**




1712  TAGALOG VOWEL SIGN I  
 1713  TAGALOG VOWEL SIGN U

**Virama**
















1714  TAGALOG SIGN VIRAMA

	172	173
0	 1720	 1730
1	 1721	 1731
2	 1722	 1732
3	 1723	 1733
4	 1724	 1734
5	 1725	 1735
6	 1726	 1736
7	 1727	
8	 1728	
9	 1729	
A	 172A	
B	 172B	
C	 172C	
D	 172D	
E	 172E	
F	 172F	



**Independent vowels**

- 1720  HANUNOO LETTER A  
 1721  HANUNOO LETTER I  
 1722  HANUNOO LETTER U

**Consonants**

- 1723  HANUNOO LETTER KA  
 1724  HANUNOO LETTER GA  
 1725  HANUNOO LETTER NGA  
 1726  HANUNOO LETTER TA  
 1727  HANUNOO LETTER DA  
 1728  HANUNOO LETTER NA  
 1729  HANUNOO LETTER PA  
 172A  HANUNOO LETTER BA  
 172B  HANUNOO LETTER MA  
 172C  HANUNOO LETTER YA  
 172D  HANUNOO LETTER RA  
 172E  HANUNOO LETTER LA  
 172F  HANUNOO LETTER WA  
 1730  HANUNOO LETTER SA  
 1731  HANUNOO LETTER HA



**Dependent vowel signs**





















- 1732  HANUNOO VOWEL SIGN I  
 1733  HANUNOO VOWEL SIGN U

**Virama**




- 1734  HANUNOO SIGN PAMUDPOD

**Generic punctuation for Philippine scripts**
















- 1735  PHILIPPINE SINGLE PUNCTUATION  
 → 0964 | devanagari danda  
 1736  PHILIPPINE DOUBLE PUNCTUATION  
 → 0965 || devanagari double danda

	174	175
0	 1740	 1750
1	 1741	 1751
2	 1742	 1752
3	 1743	 1753
4	 1744	
5	 1745	
6	 1746	
7	 1747	
8	 1748	
9	 1749	
A	 174A	
B	 174B	
C	 174C	
D	 174D	
E	 174E	
F	 174F	



**Independent vowels**



















1740		BUHID LETTER A
1741		BUHID LETTER I
1742		BUHID LETTER U

**Consonants**




1743		BUHID LETTER KA
1744		BUHID LETTER GA
1745		BUHID LETTER NGA
1746		BUHID LETTER TA
1747		BUHID LETTER DA
1748		BUHID LETTER NA
1749		BUHID LETTER PA
174A		BUHID LETTER BA
174B		BUHID LETTER MA
174C		BUHID LETTER YA
174D		BUHID LETTER RA
174E		BUHID LETTER LA
174F		BUHID LETTER WA
1750		BUHID LETTER SA
1751		BUHID LETTER HA

**Dependent vowel signs**















1752		BUHID VOWEL SIGN I
1753		BUHID VOWEL SIGN U

	176	177
0	 1760	 1770
1	 1761	
2	 1762	 1772
3	 1763	 1773
4	 1764	
5	 1765	
6	 1766	
7	 1767	
8	 1768	
9	 1769	
A	 176A	
B	 176B	
C	 176C	
D		
E	 176E	
F	 176F	



**Independent vowels**

- 1760  TAGBANWA LETTER A  
 1761  TAGBANWA LETTER I  
 1762  TAGBANWA LETTER U

**Consonants**

- 1763  TAGBANWA LETTER KA  
 1764  TAGBANWA LETTER GA  
 1765  TAGBANWA LETTER NGA  
 1766  TAGBANWA LETTER TA  
 1767  TAGBANWA LETTER DA  
 1768  TAGBANWA LETTER PA  
 1769  TAGBANWA LETTER BA  
 176A  TAGBANWA LETTER MA  
 176B  TAGBANWA LETTER YA  
 176C  TAGBANWA LETTER LA  
 176D  <reserved>  
 176E  TAGBANWA LETTER SA  
 176F  TAGBANWA LETTER KA  
 1770  TAGBANWA LETTER SA

**Dependent vowel signs**

- 1772  TAGBANWA VOWEL SIGN I  
 1773  TAGBANWA VOWEL SIGN U

	178	179	17A	17B	17C	17D	17E	17F
0	ក 1780	ថ 1790	ហ 17A0	ព 17B0	ៀ 17C0	័ 17D0	័ 17E0	័ 17F0
1	ខ 1781	ទ 1791	ឡ 17A1	ឱ 17B1	េ 17C1	័ 17D1	័ 17E1	័ 17F1
2	គ 1782	ធ 1792	អ 17A2	ច 17B2	ៃ 17C2	័ 17D2	័ 17E2	័ 17F2
3	ឃ 1783	ន 1793	អ 17A3	ឌ 17B3	័ 17C3	័ 17D3	័ 17E3	័ 17F3
4	ង 1784	ប 1794	អា 17A4	KIV AQ 17B4	ោ 17C4	័ 17D4	័ 17E4	័ 17F4
5	ច 1785	ផ 1795	ត 17A5	KIV AA 17B5	ៅ 17C5	័ 17D5	័ 17E5	័ 17F5
6	ឆ 1786	ព 1796	ឡ 17A6	ា 17B6	័ 17C6	័ 17D6	័ 17E6	័ 17F6
7	ជ 1787	ភ 1797	ខ 17A7	ិ 17B7	័ 17C7	័ 17D7	័ 17E7	័ 17F7
8	ឈ 1788	ម 1798	ឌ 17A8	ិ 17B8	័ 17C8	័ 17D8	័ 17E8	័ 17F8
9	ញ 1789	យ 1799	ឌ 17A9	ិ 17B9	័ 17C9	័ 17D9	័ 17E9	័ 17F9
A	ដ 178A	រ 179A	ឌ 17AA	ិ 17BA	័ 17CA	័ 17DA		
B	ប័ 178B	ល 179B	ប័ 17AB	ិ 17BB	័ 17CB	័ 17DB		
C	ខ 178C	រ 179C	ប័ 17AC	ិ 17BC	័ 17CC	័ 17DC		
D	ផ 178D	ត 179D	ព័ 17AD	ិ 17BD	័ 17CD	័ 17DD		
E	ណ 178E	ថ 179E	ព័ 17AE	ិ 17BE	័ 17CE			
F	ត 178F	ស 179F	ង 17AF	័ 17BF	័ 17CF			



**Consonants**

1780	ក	KHMER LETTER KA
1781	ខ	KHMER LETTER KHA
1782	គ	KHMER LETTER KO
1783	ឃ	KHMER LETTER KHO
1784	ង	KHMER LETTER NGO
1785	ច	KHMER LETTER CA
1786	ឆ	KHMER LETTER CHA
1787	ជ	KHMER LETTER CO
1788	ឈ	KHMER LETTER CHO
1789	ញ	KHMER LETTER NYO
178A	ដ	KHMER LETTER DA
178B	ត	KHMER LETTER TTHA
178C	ឌ	KHMER LETTER DO
178D	ឍ	KHMER LETTER TTHO
178E	ណ	KHMER LETTER NNO
• as this character belongs to the first register, its correct transliteration is nna, not nno		
178F	ភ	KHMER LETTER TA
1790	ថ	KHMER LETTER THA
1791	ទ	KHMER LETTER TO
1792	ធ	KHMER LETTER THO
1793	ន	KHMER LETTER NO
1794	ប	KHMER LETTER BA
1795	ផ	KHMER LETTER PHA
1796	ព	KHMER LETTER PO
1797	ភ	KHMER LETTER PHO
1798	ម	KHMER LETTER MO
1799	យ	KHMER LETTER YO
179A	រ	KHMER LETTER RO
179B	ល	KHMER LETTER LO
179C	វ	KHMER LETTER VO
179D	ស	KHMER LETTER SHA
• used only for Pali/Sanskrit transliteration		
179E	ឡ	KHMER LETTER SSO
• used only for Pali/Sanskrit transliteration		
• as this character belongs to the first register, its correct transliteration is ssa, not sso		
179F	ហ	KHMER LETTER SA
17A0	ហ	KHMER LETTER HA
17A1	ឡ	KHMER LETTER LA
17A2	អ	KHMER LETTER QA
• glottal stop		

**Deprecated independent vowels for transliteration**

*These cloned independent vowels were originally intended only for Pali/Sanskrit transliteration.*

17A3	អ	KHMER INDEPENDENT VOWEL QAA
• use of this character is strongly discouraged; 17A2 អ should be used instead		
17A4	អ	KHMER INDEPENDENT VOWEL QAA
• use of this character is strongly discouraged; the sequence 17A2 អ 17B6 ា should be used instead		

**Independent vowels**

17A5	គ	KHMER INDEPENDENT VOWEL QI
17A6	ឡ	KHMER INDEPENDENT VOWEL QII
17A7	ឌ	KHMER INDEPENDENT VOWEL QU

17A8	ឌ	KHMER INDEPENDENT VOWEL QUK
• obsolete ligature for the sequence 17A7 ឌ 1780 ក		
• use of the sequence is now preferred		
17A9	ឌ	KHMER INDEPENDENT VOWEL QUU
17AA	ឌ	KHMER INDEPENDENT VOWEL QUUV
17AB	ឌ	KHMER INDEPENDENT VOWEL RY
17AC	ឌ	KHMER INDEPENDENT VOWEL RYY
17AD	ឌ	KHMER INDEPENDENT VOWEL LY
17AE	ឌ	KHMER INDEPENDENT VOWEL LYY
17AF	ឌ	KHMER INDEPENDENT VOWEL QE
17B0	ឌ	KHMER INDEPENDENT VOWEL QAI
17B1	ឌ	KHMER INDEPENDENT VOWEL QOO TYPE ONE
17B2	ឌ	KHMER INDEPENDENT VOWEL QOO TYPE TWO
• this is a variant for 17B1 ឌ, used in only two words		
• 17B1 ឌ is the normal variant of this vowel		
17B3	ឌ	KHMER INDEPENDENT VOWEL QAU

**Inherent vowels**

*These are for phonetic transcription to distinguish Indic language inherent vowels from Khmer inherent vowels. These characters are included solely for compatibility with particular applications; their use in other contexts is discouraged.*

17B4	ឌ	KHMER VOWEL INHERENT AQ
17B5	ឌ	KHMER VOWEL INHERENT AA

**Dependent vowel signs**

17B6	ា	KHMER VOWEL SIGN AA
17B7	ិ	KHMER VOWEL SIGN I
17B8	៊	KHMER VOWEL SIGN II
17B9	៌	KHMER VOWEL SIGN Y
17BA	៎	KHMER VOWEL SIGN YY
17BB	ុ	KHMER VOWEL SIGN U
17BC	ួ	KHMER VOWEL SIGN UU
17BD	្ហ	KHMER VOWEL SIGN UA

**Two-part dependent vowel signs**

*These two-part dependent vowel signs have glyph pieces which stand on both sides of the consonant. These vowel signs follow the consonant in logical order, and should be handled as a unit for processing.*

17BE	េ	KHMER VOWEL SIGN OE
17BF	ៃ	KHMER VOWEL SIGN YA
17C0	្ហ	KHMER VOWEL SIGN IE

**Dependent vowel signs**

17C1	េ	KHMER VOWEL SIGN E
17C2	ៃ	KHMER VOWEL SIGN AE
17C3	ៃ	KHMER VOWEL SIGN AI

**Two-part dependent vowel signs**

*These two-part dependent vowel signs have glyph pieces which stand on both sides of the consonant. These vowel signs follow the consonant in logical order, and should be handled as a unit for processing.*

17C4	េ	KHMER VOWEL SIGN OO
17C5	ៃ	KHMER VOWEL SIGN AU

**Various signs**

- 17C6 ័ KHMER SIGN NIKAHIT  
 = srak am  
 = anusvara  
 • final nasalization  
 • this character is usually regarded as a vowel sign am, along with om and aam  
 → 0E4D ័ thai character nikahit  
 → 1036 ័ myanmar sign anusvara
- 17C7 ័ KHMER SIGN REAHMUK  
 = srak ah  
 = visarga  
 → 1038 ័ myanmar sign visarga
- 17C8 ័ KHMER SIGN YUUKALEAPINTU  
 • inserts a short inherent vowel with abrupt glottal stop  
 • the preferred transliteration is yukaleapintu

**Consonant shifters**

*These signs shift the base consonant between registers.*

- 17C9 ័ KHMER SIGN MUUSIKATOAN  
 • changes the second register to the first  
 • the preferred transliteration is muusekatoan
- 17CA ័ KHMER SIGN TRIISAP  
 • changes the first register to the second  
 • the preferred transliteration is treisap

**Various signs**

- 17CB ័ KHMER SIGN BANTOC  
 • shortens the vowel sound in the previous orthographic syllable  
 • the preferred transliteration is bantak
- 17CC ័ KHMER SIGN ROBATH  
 • a diacritic historically corresponding to the repha form of ra in Devanagari
- 17CD ័ KHMER SIGN TOANDAKHIAT  
 • indicates that the base character is not pronounced
- 17CE ័ KHMER SIGN KAKABAT  
 • sign used with some exclamations
- 17CF ័ KHMER SIGN AHSDA  
 • denotes stressed intonation in some single-consonant words
- 17D0 ័ KHMER SIGN SAMYOK SANNYA  
 • denotes deviation from the general rules of pronunciation, mostly used in loan words from Pali/Sanskrit, French, and so on
- 17D1 ័ KHMER SIGN VIRIAM  
 • mostly obsolete, a “killer”  
 • indicates that the base character is the final consonant of a word without its inherent vowel sound
- 17D2 ័ KHMER SIGN COENG  
 • functions to indicate that the following Khmer letter is to be rendered subscripted  
 • shape shown is arbitrary and is not visibly rendered

**Lunar date sign**

- 17D3 ័ KHMER SIGN BATHAMASAT  
 • originally intended as part of lunar date symbols  
 • use of this character is discouraged in favor of the complete set of lunar date symbols  
 → 19E0 ័ khmer symbol pathamasat

**Various signs**

- 17D4 ័ KHMER SIGN KHAN  
 • functions as a full stop, period  
 → 0E2F ័ thai character paiyannoi  
 → 104A ័ myanmar sign little section
- 17D5 ័ KHMER SIGN BARIYOOSAN  
 • indicates the end of a section or a text  
 → 0E5A ័ thai character angkhankhu  
 → 104B ័ myanmar sign section
- 17D6 ័ KHMER SIGN CAMNUC PII KUUH  
 • functions as colon  
 • the preferred transliteration is camnoc pii kuuh  
 → 00F7 ÷ division sign  
 → 0F14 ័ tibetan mark gter tsheg
- 17D7 ័ KHMER SIGN LEK TOO  
 • repetition sign  
 → 0E46 ័ thai character maiyamok
- 17D8 ័ KHMER SIGN BEYYAL  
 • et cetera  
 • use of this character is discouraged; other abbreviations for et cetera also exist  
 • preferred spelling: 17D4 ័ 179B ័ 17D4 ័
- 17D9 ័ KHMER SIGN PHNAEK MUAN  
 • indicates the beginning of a book or a treatise  
 • the preferred transliteration is phnek moan  
 → 0E4F ័ thai character fongman
- 17DA ័ KHMER SIGN KOOMUUT  
 • indicates the end of a book or treatise  
 • this forms a pair with 17D9 ័  
 • the preferred transliteration is koomoot  
 → 0E5B ័ thai character khomut

**Currency symbol**

- 17DB ័ KHMER CURRENCY SYMBOL RIEL

**Various signs**

- 17DC ័ KHMER SIGN AVAKRAHASANYA  
 • rare, shows an omitted Sanskrit vowel, like an apostrophe  
 • the preferred transliteration is avakraha sannya  
 → 093D ័ devanagari sign avagraha
- 17DD ័ KHMER SIGN ATTHACAN  
 • mostly obsolete  
 • indicates that the base character is the final consonant of a word with its inherent vowel sound  
 → 17D1 ័ khmer sign viriam

**Digits**

- 17E0 ័ KHMER DIGIT ZERO
- 17E1 ័ KHMER DIGIT ONE
- 17E2 ័ KHMER DIGIT TWO
- 17E3 ័ KHMER DIGIT THREE
- 17E4 ័ KHMER DIGIT FOUR

17E5

Khmer

17F9

17E5	៥	KHMER DIGIT FIVE
17E6	៦	KHMER DIGIT SIX
17E7	៧	KHMER DIGIT SEVEN
17E8	៨	KHMER DIGIT EIGHT
17E9	៩	KHMER DIGIT NINE

**Numeric symbols for divination lore**

*These characters have numeric values 0-9, respectively, but are not used for calculation.*

17F0	០	KHMER SYMBOL LEK ATTAK SON
17F1	១	KHMER SYMBOL LEK ATTAK MUOY
17F2	២	KHMER SYMBOL LEK ATTAK PII
17F3	៣	KHMER SYMBOL LEK ATTAK BEI
17F4	៤	KHMER SYMBOL LEK ATTAK BUON
17F5	៥	KHMER SYMBOL LEK ATTAK PRAM
17F6	៦	KHMER SYMBOL LEK ATTAK PRAM-MUOY
17F7	៧	KHMER SYMBOL LEK ATTAK PRAM-PII
17F8	៨	KHMER SYMBOL LEK ATTAK PRAM-BEI
17F9	៩	KHMER SYMBOL LEK ATTAK PRAM-BUON

	180	181	182	183	184	185	186	187	188	189	18A
0	 1800	 1810	 1820	 1830	 1840	 1850	 1860	 1870	 1880	 1890	 18A0
1	 1801	 1811	 1821	 1831	 1841	 1851	 1861	 1871	 1881	 1891	 18A1
2	 1802	 1812	 1822	 1832	 1842	 1852	 1862	 1872	 1882	 1892	 18A2
3	 1803	 1813	 1823	 1833	 1843	 1853	 1863	 1873	 1883	 1893	 18A3
4	 1804	 1814	 1824	 1834	 1844	 1854	 1864	 1874	 1884	 1894	 18A4
5	 1805	 1815	 1825	 1835	 1845	 1855	 1865	 1875	 1885	 1895	 18A5
6	 1806	 1816	 1826	 1836	 1846	 1856	 1866	 1876	 1886	 1896	 18A6
7	 1807	 1817	 1827	 1837	 1847	 1857	 1867	 1877	 1887	 1897	 18A7
8	 1808	 1818	 1828	 1838	 1848	 1858	 1868		 1888	 1898	 18A8
9	 1809	 1819	 1829	 1839	 1849	 1859	 1869		 1889	 1899	 18A9
A	 180A		 182A	 183A	 184A	 185A	 186A		 188A	 189A	 18AA
B	 180B		 182B	 183B	 184B	 185B	 186B		 188B	 189B	
C	 180C		 182C	 183C	 184C	 185C	 186C		 188C	 189C	
D	 180D		 182D	 183D	 184D	 185D	 186D		 188D	 189D	
E	 180E		 182E	 183E	 184E	 185E	 186E		 188E	 189E	
F			 182F	 183F	 184F	 185F	 186F		 188F	 189F	

1800

Mongolian

184A

**Punctuation**

1800	᠌	MONGOLIAN BIRGA
	→ 0F04	᠌ tibetan mark initial yig mgo mdun ma
1801	᠌	MONGOLIAN ELLIPSIS
1802	᠌	MONGOLIAN COMMA
1803	᠌	MONGOLIAN FULL STOP
1804	᠌	MONGOLIAN COLON
1805	᠌	MONGOLIAN FOUR DOTS
		• marks the end of a chapter
1806	᠌	MONGOLIAN TODO SOFT HYPHEN
		• not a format control character, but simply a hyphen for Todo
	→ 00AD	᠌ soft hyphen
1807	᠌	MONGOLIAN SIBE SYLLABLE BOUNDARY MARKER
1808	᠌	MONGOLIAN MANCHU COMMA
1809	᠌	MONGOLIAN MANCHU FULL STOP
180A	᠌	MONGOLIAN NIRUGU

**Format controls**

180B	᠌	MONGOLIAN FREE VARIATION SELECTOR ONE
		• abbreviated FVS1
180C	᠌	MONGOLIAN FREE VARIATION SELECTOR TWO
		• abbreviated FVS2
180D	᠌	MONGOLIAN FREE VARIATION SELECTOR THREE
		• abbreviated FVS3
180E	᠌	MONGOLIAN VOWEL SEPARATOR
		• abbreviated MVS

**Digits**

1810	᠌	MONGOLIAN DIGIT ZERO
1811	᠌	MONGOLIAN DIGIT ONE
1812	᠌	MONGOLIAN DIGIT TWO
1813	᠌	MONGOLIAN DIGIT THREE
1814	᠌	MONGOLIAN DIGIT FOUR
1815	᠌	MONGOLIAN DIGIT FIVE
1816	᠌	MONGOLIAN DIGIT SIX
1817	᠌	MONGOLIAN DIGIT SEVEN
1818	᠌	MONGOLIAN DIGIT EIGHT
1819	᠌	MONGOLIAN DIGIT NINE

**Basic letters**

1820	᠌	MONGOLIAN LETTER A
	→ 0430	᠌ cyrillic small letter a
1821	᠌	MONGOLIAN LETTER E
	→ 044D	᠌ cyrillic small letter e
1822	᠌	MONGOLIAN LETTER I
	→ 0438	᠌ cyrillic small letter i
1823	᠌	MONGOLIAN LETTER O
	→ 043E	᠌ cyrillic small letter o
1824	᠌	MONGOLIAN LETTER U
	→ 0443	᠌ cyrillic small letter u
1825	᠌	MONGOLIAN LETTER OE
	→ 04E9	᠌ cyrillic small letter barred o
1826	᠌	MONGOLIAN LETTER UE
	→ 04AF	᠌ cyrillic small letter straight u
1827	᠌	MONGOLIAN LETTER EE
1828	᠌	MONGOLIAN LETTER NA
	→ 043D	᠌ cyrillic small letter en

1829	᠌	MONGOLIAN LETTER ANG
182A	᠌	MONGOLIAN LETTER BA
	→ 0431	᠌ cyrillic small letter be
182B	᠌	MONGOLIAN LETTER PA
	→ 043F	᠌ cyrillic small letter pe
182C	᠌	MONGOLIAN LETTER QA
	→ 0445	᠌ cyrillic small letter ha
182D	᠌	MONGOLIAN LETTER GA
	→ 0433	᠌ cyrillic small letter ghe
182E	᠌	MONGOLIAN LETTER MA
	→ 043C	᠌ cyrillic small letter em
182F	᠌	MONGOLIAN LETTER LA
	→ 043B	᠌ cyrillic small letter el
1830	᠌	MONGOLIAN LETTER SA
	→ 0441	᠌ cyrillic small letter es
1831	᠌	MONGOLIAN LETTER SHA
	→ 0448	᠌ cyrillic small letter sha
1832	᠌	MONGOLIAN LETTER TA
	→ 0442	᠌ cyrillic small letter te
1833	᠌	MONGOLIAN LETTER DA
	→ 0434	᠌ cyrillic small letter de
1834	᠌	MONGOLIAN LETTER CHA
	→ 0447	᠌ cyrillic small letter che
1835	᠌	MONGOLIAN LETTER JA
	→ 0436	᠌ cyrillic small letter zhe
1836	᠌	MONGOLIAN LETTER YA
	→ 0439	᠌ cyrillic small letter short i
1837	᠌	MONGOLIAN LETTER RA
	→ 0440	᠌ cyrillic small letter er
1838	᠌	MONGOLIAN LETTER WA
	→ 0432	᠌ cyrillic small letter ve
1839	᠌	MONGOLIAN LETTER FA
	→ 0444	᠌ cyrillic small letter ef
183A	᠌	MONGOLIAN LETTER KA
	→ 0445	᠌ cyrillic small letter ha
183B	᠌	MONGOLIAN LETTER KHA
	→ 043A	᠌ cyrillic small letter ka
183C	᠌	MONGOLIAN LETTER TSA
	→ 0446	᠌ cyrillic small letter tse
183D	᠌	MONGOLIAN LETTER ZA
	→ 0437	᠌ cyrillic small letter ze
183E	᠌	MONGOLIAN LETTER HAA
	→ 0445	᠌ cyrillic small letter ha
183F	᠌	MONGOLIAN LETTER ZRA
	→ 0436	᠌ cyrillic small letter zhe
1840	᠌	MONGOLIAN LETTER LHA
1841	᠌	MONGOLIAN LETTER ZHI
1842	᠌	MONGOLIAN LETTER CHI

**Todo letters**

1843	᠌	MONGOLIAN LETTER TODO LONG VOWEL SIGN
1844	᠌	MONGOLIAN LETTER TODO E
1845	᠌	MONGOLIAN LETTER TODO I
1846	᠌	MONGOLIAN LETTER TODO O
1847	᠌	MONGOLIAN LETTER TODO U
1848	᠌	MONGOLIAN LETTER TODO OE
1849	᠌	MONGOLIAN LETTER TODO UE
184A	᠌	MONGOLIAN LETTER TODO ANG

184B	ᠪ	MONGOLIAN LETTER TODO BA
184C	ᠫ	MONGOLIAN LETTER TODO PA
184D	ᠵ	MONGOLIAN LETTER TODO QA
184E	ᠭ	MONGOLIAN LETTER TODO GA
184F	ᠮ	MONGOLIAN LETTER TODO MA
1850	ᠤ	MONGOLIAN LETTER TODO TA
1851	ᠠ	MONGOLIAN LETTER TODO DA
1852	ᠡ	MONGOLIAN LETTER TODO CHA
1853	ᠢ	MONGOLIAN LETTER TODO JA
1854	ᠣ	MONGOLIAN LETTER TODO TSA
1855	ᠣ	MONGOLIAN LETTER TODO YA
1856	ᠣ	MONGOLIAN LETTER TODO WA
1857	ᠣ	MONGOLIAN LETTER TODO KA
1858	ᠣ	MONGOLIAN LETTER TODO GAA
1859	ᠣ	MONGOLIAN LETTER TODO HAA
185A	ᠣ	MONGOLIAN LETTER TODO JIA
185B	ᠣ	MONGOLIAN LETTER TODO NIA
185C	ᠣ	MONGOLIAN LETTER TODO DZA

**Sibe letters**

185D	ᠡ	MONGOLIAN LETTER SIBE E
185E	ᠡ	MONGOLIAN LETTER SIBE I
185F	ᠡ	MONGOLIAN LETTER SIBE IY
1860	ᠡ	MONGOLIAN LETTER SIBE UE
1861	ᠡ	MONGOLIAN LETTER SIBE U
1862	ᠡ	MONGOLIAN LETTER SIBE ANG
1863	ᠡ	MONGOLIAN LETTER SIBE KA
1864	ᠡ	MONGOLIAN LETTER SIBE GA
1865	ᠡ	MONGOLIAN LETTER SIBE HA
1866	ᠡ	MONGOLIAN LETTER SIBE PA
1867	ᠡ	MONGOLIAN LETTER SIBE SHA
1868	ᠡ	MONGOLIAN LETTER SIBE TA
1869	ᠡ	MONGOLIAN LETTER SIBE DA
186A	ᠡ	MONGOLIAN LETTER SIBE JA
186B	ᠡ	MONGOLIAN LETTER SIBE FA
186C	ᠡ	MONGOLIAN LETTER SIBE GAA
186D	ᠡ	MONGOLIAN LETTER SIBE HAA
186E	ᠡ	MONGOLIAN LETTER SIBE TSA
186F	ᠡ	MONGOLIAN LETTER SIBE ZA
1870	ᠡ	MONGOLIAN LETTER SIBE RAA
1871	ᠡ	MONGOLIAN LETTER SIBE CHA
1872	ᠡ	MONGOLIAN LETTER SIBE ZHA

**Manchu letters**

1873	ᠠ	MONGOLIAN LETTER MANCHU I
1874	ᠠ	MONGOLIAN LETTER MANCHU KA
1875	ᠠ	MONGOLIAN LETTER MANCHU RA
1876	ᠠ	MONGOLIAN LETTER MANCHU FA
1877	ᠠ	MONGOLIAN LETTER MANCHU ZHA

**Extensions for Sanskrit and Tibetan**

1880	ᠠ	MONGOLIAN LETTER ALI GALI ANUSVARA ONE → 0F83 ᠠ tibetan sign sna ldan
1881	ᠠ	MONGOLIAN LETTER ALI GALI VISARGA ONE → 0F7F ᠠ tibetan sign rnam bcad
1882	ᠠ	MONGOLIAN LETTER ALI GALI DAMARU → 0F88 ᠠ tibetan sign lce tsa can
1883	ᠠ	MONGOLIAN LETTER ALI GALI UBADAMA

1884	ᠠ	MONGOLIAN LETTER ALI GALI INVERTED UBADAMA → 0F89 ᠠ tibetan sign mchu can
1885	ᠠ	MONGOLIAN LETTER ALI GALI BALUDA → 0F85 ᠠ tibetan mark paluta
1886	ᠠ	MONGOLIAN LETTER ALI GALI THREE BALUDA
1887	ᠠ	MONGOLIAN LETTER ALI GALI A
1888	ᠠ	MONGOLIAN LETTER ALI GALI I
1889	ᠠ	MONGOLIAN LETTER ALI GALI KA
188A	ᠠ	MONGOLIAN LETTER ALI GALI NG
188B	ᠠ	MONGOLIAN LETTER ALI GALI CA
188C	ᠠ	MONGOLIAN LETTER ALI GALI TTA
188D	ᠠ	MONGOLIAN LETTER ALI GALI TTHA
188E	ᠠ	MONGOLIAN LETTER ALI GALI DDA
188F	ᠠ	MONGOLIAN LETTER ALI GALI NNA
1890	ᠠ	MONGOLIAN LETTER ALI GALI TA
1891	ᠠ	MONGOLIAN LETTER ALI GALI DA
1892	ᠠ	MONGOLIAN LETTER ALI GALI PA
1893	ᠠ	MONGOLIAN LETTER ALI GALI PHA
1894	ᠠ	MONGOLIAN LETTER ALI GALI SSA
1895	ᠠ	MONGOLIAN LETTER ALI GALI ZHA
1896	ᠠ	MONGOLIAN LETTER ALI GALI ZA
1897	ᠠ	MONGOLIAN LETTER ALI GALI AH
1898	ᠠ	MONGOLIAN LETTER TODO ALI GALI TA
1899	ᠠ	MONGOLIAN LETTER TODO ALI GALI ZHA
189A	ᠠ	MONGOLIAN LETTER MANCHU ALI GALI GHA
189B	ᠠ	MONGOLIAN LETTER MANCHU ALI GALI NG
189C	ᠠ	MONGOLIAN LETTER MANCHU ALI GALI CA
189D	ᠠ	MONGOLIAN LETTER MANCHU ALI GALI JHA
189E	ᠠ	MONGOLIAN LETTER MANCHU ALI GALI TTA
189F	ᠠ	MONGOLIAN LETTER MANCHU ALI GALI DDHA
18A0	ᠠ	MONGOLIAN LETTER MANCHU ALI GALI TA
18A1	ᠠ	MONGOLIAN LETTER MANCHU ALI GALI DHA
18A2	ᠠ	MONGOLIAN LETTER MANCHU ALI GALI SSA
18A3	ᠠ	MONGOLIAN LETTER MANCHU ALI GALI CYA
18A4	ᠠ	MONGOLIAN LETTER MANCHU ALI GALI ZHA
18A5	ᠠ	MONGOLIAN LETTER MANCHU ALI GALI ZA
18A6	ᠠ	MONGOLIAN LETTER ALI GALI HALF U
18A7	ᠠ	MONGOLIAN LETTER ALI GALI HALF YA
18A8	ᠠ	MONGOLIAN LETTER MANCHU ALI GALI BHA
18A9	ᠠ	MONGOLIAN LETTER ALI GALI DAGALGA
18AA	ᠠ	MONGOLIAN LETTER MANCHU ALI GALI LHA

	18B	18C	18D	18E	18F
0	ᐃ <sup>◌</sup> 18B0	ᐅ <sup>◌</sup> 18C0	ᐇ <sup>◌</sup> 18D0	ᐉ <sup>◌</sup> 18E0	ᐊ <sup>◌</sup> 18F0
1	ᐅ <sup>◌</sup> 18B1	ᐇ <sup>◌</sup> 18C1	ᐉ <sup>◌</sup> 18D1	ᐊ <sup>◌</sup> 18E1	ᐃ <sup>◌</sup> 18F1
2	ᐊ <sup>◌</sup> 18B2	ᐅ <sup>◌</sup> 18C2	ᐇ <sup>◌</sup> 18D2	ᐉ <sup>◌</sup> 18E2	ᐊ <sup>◌</sup> 18F2
3	ᐉ <sup>◌</sup> 18B3	ᐊ <sup>◌</sup> 18C3	ᐅ <sup>◌</sup> 18D3	ᐇ <sup>◌</sup> 18E3	ᐃ <sup>◌</sup> 18F3
4	ᐊ <sup>◌</sup> 18B4	ᐅ <sup>◌</sup> 18C4	ᐇ <sup>◌</sup> 18D4	ᐉ <sup>◌</sup> 18E4	ᐊ <sup>◌</sup> 18F4
5	ᐅ <sup>◌</sup> 18B5	ᐇ <sup>◌</sup> 18C5	ᐉ <sup>◌</sup> 18D5	ᐊ <sup>◌</sup> 18E5	ᐃ <sup>◌</sup> 18F5
6	ᐊ <sup>◌</sup> 18B6	ᐅ <sup>◌</sup> 18C6	ᐇ <sup>◌</sup> 18D6	ᐉ <sup>◌</sup> 18E6	
7	ᐅ <sup>◌</sup> 18B7	ᐇ <sup>◌</sup> 18C7	ᐉ <sup>◌</sup> 18D7	ᐊ <sup>◌</sup> 18E7	
8	ᐊ <sup>◌</sup> 18B8	ᐅ <sup>◌</sup> 18C8	ᐇ <sup>◌</sup> 18D8	ᐉ <sup>◌</sup> 18E8	
9	ᐅ <sup>◌</sup> 18B9	ᐇ <sup>◌</sup> 18C9	ᐉ <sup>◌</sup> 18D9	ᐊ <sup>◌</sup> 18E9	
A	ᐊ <sup>◌</sup> 18BA	ᐅ <sup>◌</sup> 18CA	ᐇ <sup>◌</sup> 18DA	ᐉ <sup>◌</sup> 18EA	
B	ᐅ <sup>◌</sup> 18BB	ᐇ <sup>◌</sup> 18CB	ᐉ <sup>◌</sup> 18DB	ᐊ <sup>◌</sup> 18EB	
C	ᐊ <sup>◌</sup> 18BC	ᐅ <sup>◌</sup> 18CC	ᐇ <sup>◌</sup> 18DC	ᐉ <sup>◌</sup> 18EC	
D	ᐅ <sup>◌</sup> 18BD	ᐇ <sup>◌</sup> 18CD	ᐉ <sup>◌</sup> 18DD	ᐊ <sup>◌</sup> 18ED	
E	ᐊ <sup>◌</sup> 18BE	ᐅ <sup>◌</sup> 18CE	ᐇ <sup>◌</sup> 18DE	ᐉ <sup>◌</sup> 18EE	
F	ᐅ <sup>◌</sup> 18BF	ᐇ <sup>◌</sup> 18CF	ᐉ <sup>◌</sup> 18DF	ᐊ <sup>◌</sup> 18EF	

**Syllables for Moose Cree**

18B0	ᐅ	CANADIAN SYLLABICS OY
18B1	ᐅ̃	CANADIAN SYLLABICS AY
18B2	ᐅ̄	CANADIAN SYLLABICS AAY
18B3	ᐅ̅	CANADIAN SYLLABICS WAY
18B4	ᐅ̆	CANADIAN SYLLABICS POY
18B5	ᐅ̇	CANADIAN SYLLABICS PAY
18B6	ᐅ̈	CANADIAN SYLLABICS PWOY
18B7	ᐅ̉	CANADIAN SYLLABICS TAY
18B8	ᐅ̊	CANADIAN SYLLABICS KAY
18B9	ᐅ̋	CANADIAN SYLLABICS KWAY
18BA	ᐅ̌	CANADIAN SYLLABICS MAY
18BB	ᐅ̍	CANADIAN SYLLABICS NOY
18BC	ᐅ̎	CANADIAN SYLLABICS NAY
18BD	ᐅ̏	CANADIAN SYLLABICS LAY
18BE	ᐅ̐	CANADIAN SYLLABICS SOY
18BF	ᐅ̑	CANADIAN SYLLABICS SAY
18C0	ᐅ̒	CANADIAN SYLLABICS SHOY
18C1	ᐅ̓	CANADIAN SYLLABICS SHAY
18C2	ᐅ̔	CANADIAN SYLLABICS SHWOY
18C3	ᐅ̕	CANADIAN SYLLABICS YOY
18C4	ᐅ̖	CANADIAN SYLLABICS YAY
18C5	ᐅ̗	CANADIAN SYLLABICS RAY

**Syllables for Cree and Ojibway**

18C6	ᐅ̘	CANADIAN SYLLABICS NWI
18C7	ᐅ̙	CANADIAN SYLLABICS OJIBWAY NWI
18C8	ᐅ̚	CANADIAN SYLLABICS NWII
18C9	ᐅ̛	CANADIAN SYLLABICS OJIBWAY NWII
18CA	ᐅ̜	CANADIAN SYLLABICS NWO
18CB	ᐅ̝	CANADIAN SYLLABICS OJIBWAY NWO
18CC	ᐅ̞	CANADIAN SYLLABICS NWOO
18CD	ᐅ̟	CANADIAN SYLLABICS OJIBWAY NWOO
18CE	ᐅ̠	CANADIAN SYLLABICS RWEE
18CF	ᐅ̡	CANADIAN SYLLABICS RWI
18D0	ᐅ̢	CANADIAN SYLLABICS RWII
18D1	ᐅ̣	CANADIAN SYLLABICS RWO
18D2	ᐅ̤	CANADIAN SYLLABICS RWOO
18D3	ᐅ̥	CANADIAN SYLLABICS RWA

**Finals for Cree and Ojibway**

18D4	ᐅ̦	CANADIAN SYLLABICS OJIBWAY P
18D5	ᐅ̧	CANADIAN SYLLABICS OJIBWAY T
18D6	ᐅ̨	CANADIAN SYLLABICS OJIBWAY K
18D7	ᐅ̩	CANADIAN SYLLABICS OJIBWAY C
18D8	ᐅ̪	CANADIAN SYLLABICS OJIBWAY M
18D9	ᐅ̫	CANADIAN SYLLABICS OJIBWAY N
18DA	ᐅ̬	CANADIAN SYLLABICS OJIBWAY S
18DB	ᐅ̭	CANADIAN SYLLABICS OJIBWAY SH
18DC	ᐅ̮	CANADIAN SYLLABICS EASTERN W
18DD	ᐅ̯	CANADIAN SYLLABICS WESTERN W
18DE	ᐅ̰	CANADIAN SYLLABICS FINAL SMALL RING
18DF	ᐅ̱	CANADIAN SYLLABICS FINAL RAISED DOT • Carrier (GLOTTAL STOP)

**Syllables for Beaver Dene, Hare Dene, and Chipewyan Dene**

18E0	ᐅ̲	CANADIAN SYLLABICS R-CREE RWE • Beaver Dene (LYE)
------	----	--

18E1	ᐅ̳	CANADIAN SYLLABICS WEST-CREE LOO • Chipewyan Dene (LU)
18E2	ᐅ̴	CANADIAN SYLLABICS WEST-CREE LAA • Beaver Dene (LAI)
18E3	ᐅ̵	CANADIAN SYLLABICS THWE • Beaver Dene (TYE)
18E4	ᐅ̶	CANADIAN SYLLABICS THWA • Beaver Dene (TYA)
18E5	ᐅ̷	CANADIAN SYLLABICS TTHWE • Beaver Dene (HYE)
18E6	ᐅ̸	CANADIAN SYLLABICS TTHOO • Chipewyan Dene (TTHU)
18E7	ᐅ̹	CANADIAN SYLLABICS TTHAA • Beaver Dene (HAI)
18E8	ᐅ̺	CANADIAN SYLLABICS TLHWE • Beaver Dene (TLYE)
18E9	ᐅ̻	CANADIAN SYLLABICS TLHOO • Chipewyan Dene (TLU)
18EA	ᐅ̼	CANADIAN SYLLABICS SAYISI SHWE • Beaver Dene (ZYE)
18EB	ᐅ̽	CANADIAN SYLLABICS SAYISI SHOO • Chipewyan Dene (SHU)
18EC	ᐅ̾	CANADIAN SYLLABICS SAYISI HOO • Chipewyan Dene (GU)
18ED	ᐅ̿	CANADIAN SYLLABICS CARRIER GWU • Beaver Dene (CHYE)
18EE	ᐅ̿̇	CANADIAN SYLLABICS CARRIER DENE GEE • Chipewyan Dene (CHU)
18EF	ᐅ̿̈	CANADIAN SYLLABICS CARRIER GAA • Beaver Dene (CHAI)
18F0	ᐅ̿̉	CANADIAN SYLLABICS CARRIER GWA • Hare Dene (SHYA)
18F1	ᐅ̿̊	CANADIAN SYLLABICS SAYISI JUU • Chipewyan Dene (TSU)
18F2	ᐅ̿̋	CANADIAN SYLLABICS CARRIER JWA • Beaver Dene (TSYE)

**Finals for Dene and Carrier**

















































































18F3	ᐅ̿̌	CANADIAN SYLLABICS BEAVER DENE L
18F4	ᐅ̿̍	CANADIAN SYLLABICS BEAVER DENE R
18F5	ᐅ̿̎	CANADIAN SYLLABICS CARRIER DENTAL S



1900

Limbu

194F

	190	191	192	193	194
0	 1900	 1910	 1920	 1930	 1940
1	 1901	 1911	 1921	 1931	
2	 1902	 1912	 1922	 1932	
3	 1903	 1913	 1923	 1933	
4	 1904	 1914	 1924	 1934	 1944
5	 1905	 1915	 1925	 1935	 1945
6	 1906	 1916	 1926	 1936	 1946
7	 1907	 1917	 1927	 1937	 1947
8	 1908	 1918	 1928	 1938	 1948
9	 1909	 1919	 1929	 1939	 1949
A	 190A	 191A	 192A	 193A	 194A
B	 190B	 191B	 192B	 193B	 194B
C	 190C	 191C			 194C
D	 190D				 194D
E	 190E				 194E
F	 190F				 194F

**Consonants**

1900	𑄀	LIMBU VOWEL-CARRIER LETTER
1901	𑄁	LIMBU LETTER KA
1902	𑄂	LIMBU LETTER KHA
1903	𑄃	LIMBU LETTER GA
1904	𑄄	LIMBU LETTER GHA
1905	𑄅	LIMBU LETTER NGA
1906	𑄆	LIMBU LETTER CA
1907	𑄇	LIMBU LETTER CHA
1908	𑄈	LIMBU LETTER JA
1909	𑄉	LIMBU LETTER JHA
190A	𑄊	LIMBU LETTER YAN
190B	𑄋	LIMBU LETTER TA
190C	𑄌	LIMBU LETTER THA
190D	𑄍	LIMBU LETTER DA
190E	𑄎	LIMBU LETTER DHA
190F	𑄏	LIMBU LETTER NA
1910	𑄐	LIMBU LETTER PA
1911	𑄑	LIMBU LETTER PHA
1912	𑄒	LIMBU LETTER BA
1913	𑄓	LIMBU LETTER BHA
1914	𑄔	LIMBU LETTER MA
1915	𑄕	LIMBU LETTER YA
1916	𑄖	LIMBU LETTER RA
1917	𑄗	LIMBU LETTER LA
1918	𑄘	LIMBU LETTER WA
1919	𑄙	LIMBU LETTER SHA
191A	𑄚	LIMBU LETTER SSA
191B	𑄛	LIMBU LETTER SA
191C	𑄜	LIMBU LETTER HA

**Dependent vowel signs**

1920	𑄝	LIMBU VOWEL SIGN A
1921	𑄞	LIMBU VOWEL SIGN I
1922	𑄟	LIMBU VOWEL SIGN U
1923	𑄠	LIMBU VOWEL SIGN EE
1924	𑄡	LIMBU VOWEL SIGN AI
1925	𑄢	LIMBU VOWEL SIGN OO
1926	𑄣	LIMBU VOWEL SIGN AU
1927	𑄤	LIMBU VOWEL SIGN E
1928	𑄥	LIMBU VOWEL SIGN O

**Subjoined consonants**

1929	𑄦	LIMBU SUBJOINED LETTER YA
192A	𑄧	LIMBU SUBJOINED LETTER RA
192B	𑄨	LIMBU SUBJOINED LETTER WA

**Final consonants**

1930	𑄩	LIMBU SMALL LETTER KA
1931	𑄪	LIMBU SMALL LETTER NGA
1932	𑄫	LIMBU SMALL LETTER ANUSVARA
1933	𑄬	LIMBU SMALL LETTER TA
1934	𑄭	LIMBU SMALL LETTER NA
1935	𑄮	LIMBU SMALL LETTER PA
1936	𑄯	LIMBU SMALL LETTER MA
1937	𑄰	LIMBU SMALL LETTER RA
1938	𑄱	LIMBU SMALL LETTER LA

**Various signs**

1939	𑄲	LIMBU SIGN MUKPHRENG
193A	𑄳	LIMBU SIGN KEMPHRENG

193B	𑄴	LIMBU SIGN SA-I
193C	𑄵	<reserved>
193D	𑄶	<reserved>
193E	𑄷	<reserved>
193F	𑄸	<reserved>
1940	𑄹	LIMBU SIGN LOO
1941	𑄺	<reserved>
1942	𑄻	<reserved>
1943	𑄼	<reserved>
1944	𑄽	LIMBU EXCLAMATION MARK
1945	𑄾	LIMBU QUESTION MARK

**Digits**

1946	0	LIMBU DIGIT ZERO
1947	𑄿	LIMBU DIGIT ONE
1948	𑅀	LIMBU DIGIT TWO
1949	𑅁	LIMBU DIGIT THREE
194A	𑅂	LIMBU DIGIT FOUR
194B	𑅃	LIMBU DIGIT FIVE
194C	𑅄	LIMBU DIGIT SIX
194D	𑅅	LIMBU DIGIT SEVEN
194E	𑅆	LIMBU DIGIT EIGHT
194F	𑅇	LIMBU DIGIT NINE

	195	196	197
0	၁ 1950	ခ 1960	က 1970
1	င 1951	ဃ 1961	ဓ 1971
2	ဂ 1952	စ 1962	တ 1972
3	ဉ 1953	၎ 1963	ပ 1973
4	ဗ 1954	ဧ 1964	ဇ 1974
5	မ 1955	ဂ 1965	
6	တ 1956	၎ 1966	
7	သ 1957	၎ 1967	
8	၎ 1958	၎ 1968	
9	ပ 1959	ပ 1969	
A	သ 195A	ဧ 196A	
B	ဃ 195B	ဧ 196B	
C	ဃ 195C	၎ 196C	
D	တ 195D	ဃ 196D	
E	ဧ 195E		
F	ဧ 195F		

Note the similarly named but distinct New Tai Lue script encoded at U+1980..U+19DF.

#### Consonants

1950	၁	TAI LE LETTER KA
1951	ခ	TAI LE LETTER XA
1952	ဂ	TAI LE LETTER NGA
1953	ဃ	TAI LE LETTER TSA
1954	ဃ	TAI LE LETTER SA
1955	မ	TAI LE LETTER YA
1956	တ	TAI LE LETTER TA
1957	သ	TAI LE LETTER THA
1958	၎	TAI LE LETTER LA
1959	ပ	TAI LE LETTER PA
195A	သ	TAI LE LETTER PHA
195B	ဃ	TAI LE LETTER MA
195C	ဃ	TAI LE LETTER FA
195D	တ	TAI LE LETTER VA
195E	ဧ	TAI LE LETTER HA
195F	ဧ	TAI LE LETTER QA
1960	ခ	TAI LE LETTER KHA
1961	ဃ	TAI LE LETTER TSHA
1962	ဂ	TAI LE LETTER NA

#### Vowels

1963	ါ	TAI LE LETTER A
1964	ဧ	TAI LE LETTER I
1965	ဂ	TAI LE LETTER EE
1966	၎	TAI LE LETTER EH
1967	၎	TAI LE LETTER U
1968	၎	TAI LE LETTER OO
1969	ပ	TAI LE LETTER O
196A	ဧ	TAI LE LETTER UE
196B	ဧ	TAI LE LETTER E
196C	၎	TAI LE LETTER AUE
196D	ဃ	TAI LE LETTER AI

#### Tone letters

1970	က	TAI LE LETTER TONE-2
1971	ဓ	TAI LE LETTER TONE-3
1972	တ	TAI LE LETTER TONE-4
1973	ပ	TAI LE LETTER TONE-5
1974	ဇ	TAI LE LETTER TONE-6

	198	199	19A	19B	19C	19D
0	၌ 1980	ၵ 1990	ၵ 19A0	ၵ 19B0	ၵ 19C0	ၵ 19D0
1	ၵ 1981	ၵ 1991	ၵ 19A1	ၵ 19B1	ၵ 19C1	ၵ 19D1
2	ၵ 1982	ၵ 1992	ၵ 19A2	ၵ 19B2	ၵ 19C2	ၵ 19D2
3	ၵ 1983	ၵ 1993	ၵ 19A3	ၵ 19B3	ၵ 19C3	ၵ 19D3
4	ၵ 1984	ၵ 1994	ၵ 19A4	ၵ 19B4	ၵ 19C4	ၵ 19D4
5	ၵ 1985	ၵ 1995	ၵ 19A5	ၵ 19B5	ၵ 19C5	ၵ 19D5
6	ၵ 1986	ၵ 1996	ၵ 19A6	ၵ 19B6	ၵ 19C6	ၵ 19D6
7	ၵ 1987	ၵ 1997	ၵ 19A7	ၵ 19B7	ၵ 19C7	ၵ 19D7
8	ၵ 1988	ၵ 1998	ၵ 19A8	ၵ 19B8	ၵ 19C8	ၵ 19D8
9	ၵ 1989	ၵ 1999	ၵ 19A9	ၵ 19B9	ၵ 19C9	ၵ 19D9
A	ၵ 198A	ၵ 199A	ၵ 19AA	ၵ 19BA		ၵ 19DA
B	ၵ 198B	ၵ 199B	ၵ 19AB	ၵ 19BB		
C	ၵ 198C	ၵ 199C		ၵ 19BC		
D	ၵ 198D	ၵ 199D		ၵ 19BD		
E	ၵ 198E	ၵ 199E		ၵ 19BE		ၵ 19DE
F	ၵ 198F	ၵ 199F		ၵ 19BF		ၵ 19DF

1980

New Tai Lue

19DF

*Note the similarly named but distinct Tai Le script encoded at U+1950..U+197F. The New Tai Lue script is also known as Xishuang Banna Dai.*

**Consonants**

1980	ᨆ	NEW TAI LUE LETTER HIGH QA
1981	ᨇ	NEW TAI LUE LETTER LOW QA
1982	ᨈ	NEW TAI LUE LETTER HIGH KA
1983	ᨉ	NEW TAI LUE LETTER HIGH XA
1984	ᨊ	NEW TAI LUE LETTER HIGH NGA
1985	ᨋ	NEW TAI LUE LETTER LOW KA
1986	ᨌ	NEW TAI LUE LETTER LOW XA
1987	ᨍ	NEW TAI LUE LETTER LOW NGA
1988	ᨎ	NEW TAI LUE LETTER HIGH TSA
1989	ᨏ	NEW TAI LUE LETTER HIGH SA
198A	ᨐ	NEW TAI LUE LETTER HIGH YA
198B	ᨑ	NEW TAI LUE LETTER LOW TSA
198C	ᨒ	NEW TAI LUE LETTER LOW SA
198D	ᨓ	NEW TAI LUE LETTER LOW YA
198E	ᨔ	NEW TAI LUE LETTER HIGH TA
198F	ᨕ	NEW TAI LUE LETTER HIGH THA
1990	ᨖ	NEW TAI LUE LETTER HIGH NA
1991	ᨗ	NEW TAI LUE LETTER LOW TA
1992	ᨘ	NEW TAI LUE LETTER LOW THA
1993	ᨙ	NEW TAI LUE LETTER LOW NA
1994	ᨚ	NEW TAI LUE LETTER HIGH PA
1995	ᨛ	NEW TAI LUE LETTER HIGH PHA
1996	᨜	NEW TAI LUE LETTER HIGH MA
1997	᨝	NEW TAI LUE LETTER LOW PA
1998	᨞	NEW TAI LUE LETTER LOW PHA
1999	᨟	NEW TAI LUE LETTER LOW MA
199A	ᨠ	NEW TAI LUE LETTER HIGH FA
199B	ᨡ	NEW TAI LUE LETTER HIGH VA
199C	ᨢ	NEW TAI LUE LETTER HIGH LA
199D	ᨣ	NEW TAI LUE LETTER LOW FA
199E	ᨤ	NEW TAI LUE LETTER LOW VA
199F	ᨥ	NEW TAI LUE LETTER LOW LA
19A0	ᨦ	NEW TAI LUE LETTER HIGH HA
19A1	ᨧ	NEW TAI LUE LETTER HIGH DA
19A2	ᨨ	NEW TAI LUE LETTER HIGH BA
19A3	ᨩ	NEW TAI LUE LETTER LOW HA
19A4	ᨪ	NEW TAI LUE LETTER LOW DA
19A5	ᨫ	NEW TAI LUE LETTER LOW BA
19A6	ᨬ	NEW TAI LUE LETTER HIGH KVA
19A7	ᨭ	NEW TAI LUE LETTER HIGH XVA
19A8	ᨮ	NEW TAI LUE LETTER LOW KVA
19A9	ᨯ	NEW TAI LUE LETTER LOW XVA
19AA	ᨰ	NEW TAI LUE LETTER HIGH SUA
19AB	ᨱ	NEW TAI LUE LETTER LOW SUA

**Vowel signs**

19B0	ᨲ	NEW TAI LUE VOWEL SIGN VOWEL SHORTENER
19B1	ᨳ	NEW TAI LUE VOWEL SIGN AA
19B2	ᨴ	NEW TAI LUE VOWEL SIGN II
19B3	ᨵ	NEW TAI LUE VOWEL SIGN U
19B4	ᨶ	NEW TAI LUE VOWEL SIGN UU
19B5	ᨷ	NEW TAI LUE VOWEL SIGN E
19B6	ᨸ	NEW TAI LUE VOWEL SIGN AE
19B7	ᨹ	NEW TAI LUE VOWEL SIGN O
19B8	ᨺ	NEW TAI LUE VOWEL SIGN OA

19B9	ᨻ	NEW TAI LUE VOWEL SIGN UE
19BA	ᨼ	NEW TAI LUE VOWEL SIGN AY
19BB	ᨽ	NEW TAI LUE VOWEL SIGN AAY
19BC	ᨿ	NEW TAI LUE VOWEL SIGN UY
19BD	ᩀ	NEW TAI LUE VOWEL SIGN OY
19BE	ᩁ	NEW TAI LUE VOWEL SIGN OAY
19BF	ᩂ	NEW TAI LUE VOWEL SIGN UEY
19C0	ᩃ	NEW TAI LUE VOWEL SIGN IY

**Final consonants**

19C1	ᩄ	NEW TAI LUE LETTER FINAL V
19C2	ᩅ	NEW TAI LUE LETTER FINAL NG
19C3	ᩆ	NEW TAI LUE LETTER FINAL N
19C4	ᩇ	NEW TAI LUE LETTER FINAL M
19C5	ᩈ	NEW TAI LUE LETTER FINAL K
19C6	ᩉ	NEW TAI LUE LETTER FINAL D
19C7	ᩊ	NEW TAI LUE LETTER FINAL B

**Tone marks**

19C8	ᩋ	NEW TAI LUE TONE MARK-1
19C9	ᩌ	NEW TAI LUE TONE MARK-2

**Digits**

19D0	ᩍ	NEW TAI LUE DIGIT ZERO
19D1	ᩎ	NEW TAI LUE DIGIT ONE
19D2	ᩏ	NEW TAI LUE DIGIT TWO
19D3	ᩐ	NEW TAI LUE DIGIT THREE
19D4	ᩑ	NEW TAI LUE DIGIT FOUR
19D5	ᩒ	NEW TAI LUE DIGIT FIVE
19D6	ᩓ	NEW TAI LUE DIGIT SIX
19D7	ᩔ	NEW TAI LUE DIGIT SEVEN
19D8	ᩕ	NEW TAI LUE DIGIT EIGHT
19D9	ᩖ	NEW TAI LUE DIGIT NINE
19DA	ᩗ	NEW TAI LUE THAM DIGIT ONE

**Various signs**

































19DE	ᩘ	NEW TAI LUE SIGN LAE • conjunction: and
19DF	ᩙ	NEW TAI LUE SIGN LAEV • perfective

	19E	19F
0	០ 19E0	៨ 19F0
1	១ 19E1	៩ 19F1
2	២ 19E2	១២ 19F2
3	៣ 19E3	១៣ 19F3
4	៤ 19E4	១៤ 19F4
5	៥ 19E5	១៥ 19F5
6	៦ 19E6	១៦ 19F6
7	៧ 19E7	១៧ 19F7
8	៨ 19E8	១៨ 19F8
9	៩ 19E9	១៩ 19F9
A	១០ 19EA	១០ 19FA
B	១១ 19EB	១១ 19FB
C	១២ 19EC	១២ 19FC
D	១៣ 19ED	១៣ 19FD
E	១៤ 19EE	១៤ 19FE
F	១៥ 19EF	១៥ 19FF























## Lunar date symbols

19E0	០ ៨	KHMER SYMBOL PATHAMASAT
		• represents the first August in a leap year
		The following fifteen characters represent the first through the fifteenth waxing days, respectively.
19E1	១ ១	KHMER SYMBOL MUOY KOET
19E2	២ ១	KHMER SYMBOL PII KOET
19E3	៣ ១	KHMER SYMBOL BEI KOET
19E4	៤ ១	KHMER SYMBOL BUON KOET
19E5	៥ ១	KHMER SYMBOL PRAM KOET
19E6	៦ ១	KHMER SYMBOL PRAM-MUOY KOET
19E7	៧ ១	KHMER SYMBOL PRAM-PII KOET
19E8	៨ ១	KHMER SYMBOL PRAM-BEI KOET
19E9	៩ ១	KHMER SYMBOL PRAM-BUON KOET
19EA	១០ ១	KHMER SYMBOL DAP KOET
19EB	១១ ១	KHMER SYMBOL DAP-MUOY KOET
19EC	១២ ១	KHMER SYMBOL DAP-PII KOET
19ED	១៣ ១	KHMER SYMBOL DAP-BEI KOET
19EE	១៤ ១	KHMER SYMBOL DAP-BUON KOET
19EF	១៥ ១	KHMER SYMBOL DAP-PRAM KOET
19F0	៨ ៨	KHMER SYMBOL TUTEYASAT
		• represents the second August in a leap year
		The following fifteen characters represent the first through the fifteenth waning days, respectively.
19F1	១ ១	KHMER SYMBOL MUOY ROC
19F2	២ ១	KHMER SYMBOL PII ROC
19F3	៣ ១	KHMER SYMBOL BEI ROC
19F4	៤ ១	KHMER SYMBOL BUON ROC
19F5	៥ ១	KHMER SYMBOL PRAM ROC
19F6	៦ ១	KHMER SYMBOL PRAM-MUOY ROC
19F7	៧ ១	KHMER SYMBOL PRAM-PII ROC
19F8	៨ ១	KHMER SYMBOL PRAM-BEI ROC
19F9	៩ ១	KHMER SYMBOL PRAM-BUON ROC
19FA	១០ ១	KHMER SYMBOL DAP ROC
19FB	១១ ១	KHMER SYMBOL DAP-MUOY ROC
19FC	១២ ១	KHMER SYMBOL DAP-PII ROC
19FD	១៣ ១	KHMER SYMBOL DAP-BEI ROC
19FE	១៤ ១	KHMER SYMBOL DAP-BUON ROC
19FF	១៥ ១	KHMER SYMBOL DAP-PRAM ROC






*This script is also known as Lontara.*

	1A0	1A1
0	 1A00	 1A10
1	 1A01	 1A11
2	 1A02	 1A12
3	 1A03	 1A13
4	 1A04	 1A14
5	 1A05	 1A15
6	 1A06	 1A16
7	 1A07	 1A17
8	 1A08	 1A18
9	 1A09	 1A19
A	 1A0A	 1A1A
B	 1A0B	 1A1B
C	 1A0C	
D	 1A0D	
E	 1A0E	 1A1E
F	 1A0F	 1A1F



#### Consonants

































































































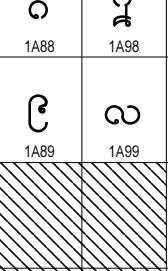














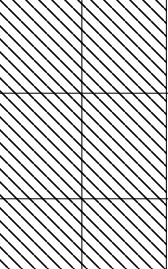






















1A00		BUGINESE LETTER KA
1A01		BUGINESE LETTER GA
1A02		BUGINESE LETTER NGKA
1A03		BUGINESE LETTER PA
1A05		BUGINESE LETTER BA
1A06		BUGINESE LETTER MA
1A07		BUGINESE LETTER MPA
1A08		BUGINESE LETTER TA
1A09		BUGINESE LETTER DA
1A0A		BUGINESE LETTER NA
1A0B		BUGINESE LETTER NRA
1A0C		BUGINESE LETTER CA
1A0D		BUGINESE LETTER JA
1A0E		BUGINESE LETTER NYA
1A0F		BUGINESE LETTER NYCA
1A10		BUGINESE LETTER YA
1A11		BUGINESE LETTER RA
1A12		BUGINESE LETTER LA
1A13		BUGINESE LETTER VA
1A14		BUGINESE LETTER SA
1A15		BUGINESE LETTER A
1A16		BUGINESE LETTER HA

#### Vowels

1A17		BUGINESE VOWEL SIGN I
1A18		BUGINESE VOWEL SIGN U
1A19		BUGINESE VOWEL SIGN E
1A1A		BUGINESE VOWEL SIGN O
1A1B		BUGINESE VOWEL SIGN AE

#### Various signs

1A1E		BUGINESE PALLAWA
1A1F		BUGINESE END OF SECTION

	1A2	1A3	1A4	1A5	1A6	1A7	1A8	1A9	1AA		
0	 1A20	 1A30	 1A40	 1A50	 1A60	 1A70	 1A80	 1A90	 1AA0		
1	 1A21	 1A31	 1A41	 1A51	 1A61	 1A71	 1A81	 1A91	 1AA1		
2	 1A22	 1A32	 1A42	 1A52	 1A62	 1A72	 1A82	 1A92	 1AA2		
3	 1A23	 1A33	 1A43	 1A53	 1A63	 1A73	 1A83	 1A93	 1AA3		
4	 1A24	 1A34	 1A44	 1A54	 1A64	 1A74	 1A84	 1A94	 1AA4		
5	 1A25	 1A35	 1A45	 1A55	 1A65	 1A75	 1A85	 1A95	 1AA5		
6	 1A26	 1A36	 1A46	 1A56	 1A66	 1A76	 1A86	 1A96	 1AA6		
7	 1A27	 1A37	 1A47	 1A57	 1A67	 1A77	 1A87	 1A97	 1AA7		
8	 1A28	 1A38	 1A48	 1A58	 1A68	 1A78	 1A88	 1A98	 1AA8		
9	 1A29	 1A39	 1A49	 1A59	 1A69	 1A79	 1A89	 1A99	 1AA9		
A	 1A2A	 1A3A	 1A4A	 1A5A	 1A6A	 1A7A			 1AAA		
B	 1A2B	 1A3B	 1A4B	 1A5B	 1A6B	 1A7B			 1AAB		
C	 1A2C	 1A3C	 1A4C	 1A5C	 1A6C	 1A7C			 1AAC		
D	 1A2D	 1A3D	 1A4D	 1A5D	 1A6D				 1AAD		
E	 1A2E	 1A3E	 1A4E	 1A5E	 1A6E						
F	 1A2F	 1A3F	 1A4F		 1A6F	 1A7F					



## 1A20

## Tai Tham

## 1A86

The Tai Tham script is also known as Lanna as well as Old Tai Lue. It is used for the Khuen, Northern Thai, and Tai Lue languages. The glyphs shown in the code chart are in Khuen and Tai Lue style.

**Consonants**

1A20	ᨁ	TAI THAM LETTER HIGH KA
1A21	ᨂ	TAI THAM LETTER HIGH KHA
1A22	ᨃ	TAI THAM LETTER HIGH KXA
1A23	ᨄ	TAI THAM LETTER LOW KA
1A24	ᨅ	TAI THAM LETTER LOW KXA
1A25	ᨆ	TAI THAM LETTER LOW KHA
1A26	ᨇ	TAI THAM LETTER NGA
1A27	ᨈ	TAI THAM LETTER HIGH CA
1A28	ᨉ	TAI THAM LETTER HIGH CHA
1A29	ᨊ	TAI THAM LETTER LOW CA
1A2A	ᨋ	TAI THAM LETTER LOW SA
1A2B	ᨌ	TAI THAM LETTER LOW CHA
1A2C	ᨍ	TAI THAM LETTER NYA
1A2D	ᨎ	TAI THAM LETTER RATA
1A2E	ᨏ	TAI THAM LETTER HIGH RATHA
1A2F	ᨐ	TAI THAM LETTER DA
1A30	ᨑ	TAI THAM LETTER LOW RATHA
1A31	ᨒ	TAI THAM LETTER RANA
1A32	ᨓ	TAI THAM LETTER HIGH TA
1A33	ᨔ	TAI THAM LETTER HIGH THA
1A34	ᨕ	TAI THAM LETTER LOW TA
1A35	ᨖ	TAI THAM LETTER LOW THA
1A36	ᨗ	TAI THAM LETTER NA
1A37	ᨘ	TAI THAM LETTER BA
1A38	ᨙ	TAI THAM LETTER HIGH PA
1A39	ᨚ	TAI THAM LETTER HIGH PHA
1A3A	ᨛ	TAI THAM LETTER HIGH FA
1A3B	᨜	TAI THAM LETTER LOW PA
1A3C	᨝	TAI THAM LETTER LOW FA
1A3D	᨞	TAI THAM LETTER LOW PHA
1A3E	᨟	TAI THAM LETTER MA
1A3F	ᨠ	TAI THAM LETTER LOW YA
1A40	ᨡ	TAI THAM LETTER HIGH YA
1A41	ᨢ	TAI THAM LETTER RA
1A42	ᨣ	TAI THAM LETTER RUE
1A43	ᨤ	TAI THAM LETTER LA
1A44	ᨥ	TAI THAM LETTER LUE
1A45	ᨦ	TAI THAM LETTER WA
1A46	ᨧ	TAI THAM LETTER HIGH SHA
1A47	ᨨ	TAI THAM LETTER HIGH SSA
1A48	ᨩ	TAI THAM LETTER HIGH SA
1A49	ᨪ	TAI THAM LETTER HIGH HA
1A4A	ᨫ	TAI THAM LETTER LLA
1A4B	ᨬ	TAI THAM LETTER A • indicates a glottal consonant
1A4C	ᨭ	TAI THAM LETTER LOW HA

**Independent vowels**

1A4D	ᨮ	TAI THAM LETTER I
1A4E	ᨯ	TAI THAM LETTER II
1A4F	ᨰ	TAI THAM LETTER U
1A50	ᨱ	TAI THAM LETTER UU
1A51	ᨲ	TAI THAM LETTER EE
1A52	ᨳ	TAI THAM LETTER OO

**Consonants**

1A53	ᨴ	TAI THAM LETTER LAE
1A54	ᨵ	TAI THAM LETTER GREAT SA
1A55	ᨶ	TAI THAM CONSONANT SIGN MEDIAL RA
1A56	ᨷ	TAI THAM CONSONANT SIGN MEDIAL LA
1A57	ᨸ	TAI THAM CONSONANT SIGN LA TANG LAI
1A58	ᨹ	TAI THAM SIGN MAI KANG LAI
1A59	ᨺ	TAI THAM CONSONANT SIGN FINAL NG
1A5A	ᨻ	TAI THAM CONSONANT SIGN LOW PA
1A5B	ᨼ	TAI THAM CONSONANT SIGN HIGH RATHA OR LOW PA
1A5C	ᨽ	TAI THAM CONSONANT SIGN MA
1A5D	ᨾ	TAI THAM CONSONANT SIGN BA
1A5E	ᨿ	TAI THAM CONSONANT SIGN SA

**Sign**

1A60	᩠	TAI THAM SIGN SAKOT
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**Dependent vowel signs**

1A61	ᩡ	TAI THAM VOWEL SIGN A
1A62	ᩢ	TAI THAM VOWEL SIGN MAI SAT
1A63	ᩣ	TAI THAM VOWEL SIGN AA
1A64	ᩤ	TAI THAM VOWEL SIGN TALL AA
1A65	ᩥ	TAI THAM VOWEL SIGN I
1A66	ᩦ	TAI THAM VOWEL SIGN II
1A67	ᩧ	TAI THAM VOWEL SIGN UE
1A68	ᩨ	TAI THAM VOWEL SIGN UUE
1A69	ᩩ	TAI THAM VOWEL SIGN U
1A6A	ᩪ	TAI THAM VOWEL SIGN UU
1A6B	ᩫ	TAI THAM VOWEL SIGN O
1A6C	ᩬ	TAI THAM VOWEL SIGN OA BELOW
1A6D	ᩭ	TAI THAM VOWEL SIGN OY
1A6E	ᩮ	TAI THAM VOWEL SIGN E
1A6F	ᩯ	TAI THAM VOWEL SIGN AE
1A70	ᩰ	TAI THAM VOWEL SIGN OO
1A71	ᩱ	TAI THAM VOWEL SIGN AI
1A72	ᩲ	TAI THAM VOWEL SIGN THAM AI
1A73	ᩳ	TAI THAM VOWEL SIGN OA ABOVE
1A74	ᩴ	TAI THAM SIGN MAI KANG

**Tone marks and other marks**

1A75	᩵	TAI THAM SIGN TONE-1
1A76	᩶	TAI THAM SIGN TONE-2
1A77	᩷	TAI THAM SIGN KHUEN TONE-3
1A78	᩸	TAI THAM SIGN KHUEN TONE-4
1A79	᩹	TAI THAM SIGN KHUEN TONE-5
1A7A	᩺	TAI THAM SIGN RA HAAM
1A7B	᩻	TAI THAM SIGN MAI SAM
1A7C	᩼	TAI THAM SIGN KHUEN-LUE KARAN
1A7D	᩽	<reserved>
1A7E	᩾	<reserved>
1A7F	᩿	TAI THAM COMBINING CRYPTOGRAMMIC DOT

**Hora digits**

1A80	᩠	TAI THAM HORA DIGIT ZERO
1A81	ᩡ	TAI THAM HORA DIGIT ONE
1A82	ᩢ	TAI THAM HORA DIGIT TWO
1A83	ᩣ	TAI THAM HORA DIGIT THREE
1A84	ᩤ	TAI THAM HORA DIGIT FOUR
1A85	ᩥ	TAI THAM HORA DIGIT FIVE
1A86	ᩦ	TAI THAM HORA DIGIT SIX

1A87	ᄁ	TAI THAM HORA DIGIT SEVEN
1A88	ᄂ	TAI THAM HORA DIGIT EIGHT
1A89	ᄃ	TAI THAM HORA DIGIT NINE

**Tham digits**

1A90	ᄄ	TAI THAM THAM DIGIT ZERO
1A91	ᄅ	TAI THAM THAM DIGIT ONE
1A92	ᄆ	TAI THAM THAM DIGIT TWO
1A93	ᄇ	TAI THAM THAM DIGIT THREE
1A94	ᄈ	TAI THAM THAM DIGIT FOUR
1A95	ᄉ	TAI THAM THAM DIGIT FIVE
1A96	ᄊ	TAI THAM THAM DIGIT SIX
1A97	ᄋ	TAI THAM THAM DIGIT SEVEN
1A98	ᄌ	TAI THAM THAM DIGIT EIGHT
1A99	ᄍ	TAI THAM THAM DIGIT NINE
1A9A	ᄎ	<reserved>
1A9B	ᄏ	<reserved>
1A9C	ᄐ	<reserved>
1A9D	ᄑ	<reserved>
1A9E	ᄒ	<reserved>
1A9F	ᄓ	<reserved>
1AA0	ᄔ	TAI THAM SIGN WIANG
1AA1	ᄕ	TAI THAM SIGN WIANGWAAK
1AA2	ᄖ	TAI THAM SIGN SAWAN
1AA3	ᄗ	TAI THAM SIGN KEOW
1AA4	ᄘ	TAI THAM SIGN HOY
1AA5	ᄙ	TAI THAM SIGN DOKMAI
1AA6	ᄚ	TAI THAM SIGN REVERSED ROTATED RANA
1AA7	ᄛ	TAI THAM SIGN MAI YAMOK
1AA8	ᄜ	TAI THAM SIGN KAAK
1AA9	ᄝ	TAI THAM SIGN KAAKUU
1AAA	ᄞ	TAI THAM SIGN SATKAAK
1AAB	ᄟ	TAI THAM SIGN SATKAAKUU
1AAC	ᄠ	TAI THAM SIGN HANG
1AAD	ᄡ	TAI THAM SIGN CAANG

	1B0	1B1	1B2	1B3	1B4	1B5	1B6	1B7
0	◌̇ 1B00	◌̈ 1B10	◌̍ 1B20	◌̎ 1B30	◌̏ 1B40	◌̐ 1B50	◌̑ 1B60	◌̒ 1B70
1	◌̓ 1B01	◌̔ 1B11	◌̕ 1B21	◌̖ 1B31	◌̗ 1B41	◌̘ 1B51	◌̙ 1B61	◌̚ 1B71
2	◌̛ 1B02	◌̜ 1B12	◌̝ 1B22	◌̞ 1B32	◌̟ 1B42	◌̠ 1B52	◌̡ 1B62	◌̢ 1B72
3	◌̣ 1B03	◌̤ 1B13	◌̥ 1B23	◌̦ 1B33	◌̧ 1B43	◌̨ 1B53	◌̩ 1B63	◌̪ 1B73
4	◌̫ 1B04	◌̬ 1B14	◌̭ 1B24	◌̮ 1B34	◌̯ 1B44	◌̰ 1B54	◌̱ 1B64	◌̲ 1B74
5	◌̳ 1B05	◌̴ 1B15	◌̵ 1B25	◌̶ 1B35	◌̷ 1B45	◌̸ 1B55	◌̹ 1B65	◌̺ 1B75
6	◌̻ 1B06	◌̼ 1B16	◌̽ 1B26	◌̾ 1B36	◌̿ 1B46	◌̠ 1B56	◌̡ 1B66	◌̢ 1B76
7	◌̣ 1B07	◌̤ 1B17	◌̥ 1B27	◌̦ 1B37	◌̧ 1B47	◌̨ 1B57	◌̩ 1B67	◌̪ 1B77
8	◌̫ 1B08	◌̬ 1B18	◌̭ 1B28	◌̮ 1B38	◌̯ 1B48	◌̰ 1B58	◌̱ 1B68	◌̲ 1B78
9	◌̳ 1B09	◌̴ 1B19	◌̵ 1B29	◌̶ 1B39	◌̷ 1B49	◌̸ 1B59	◌̹ 1B69	◌̺ 1B79
A	◌̻ 1B0A	◌̼ 1B1A	◌̽ 1B2A	◌̾ 1B3A	◌̿ 1B4A	◌̠ 1B5A	◌̡ 1B6A	◌̢ 1B7A
B	◌̣ 1B0B	◌̤ 1B1B	◌̥ 1B2B	◌̦ 1B3B	◌̧ 1B4B	◌̨ 1B5B	◌̩ 1B6B	◌̪ 1B7B
C	◌̫ 1B0C	◌̬ 1B1C	◌̭ 1B2C	◌̮ 1B3C		◌̯ 1B5C	◌̰ 1B6C	◌̱ 1B7C
D	◌̳ 1B0D	◌̴ 1B1D	◌̵ 1B2D	◌̶ 1B3D		◌̷ 1B5D	◌̸ 1B6D	
E	◌̹ 1B0E	◌̺ 1B1E	◌̻ 1B2E	◌̼ 1B3E		◌̽ 1B5E	◌̾ 1B6E	
F	◌̿ 1B0F	◌̠ 1B1F	◌̡ 1B2F	◌̢ 1B3F		◌̣ 1B5F	◌̤ 1B6F	










## Various signs

1B00	◌̐	<b>BALINESE SIGN ULU RICEM</b> = ardhacandra
1B01	◌̑	<b>BALINESE SIGN ULU CANDRA</b> = candrabindu
1B02	◌̒	<b>BALINESE SIGN CECEK</b> = anusvara
1B03	◌̓	<b>BALINESE SIGN SURANG</b> = repha
1B04	◌̔	<b>BALINESE SIGN BISAH</b> = visarga

## Independent vowels

1B05	ᮘ	BALINESE LETTER AKARA = a
1B06	ᮙ	BALINESE LETTER AKARA TEDUNG = aa ≡ 1B05 ᮘ 1B35 ᮓ
1B07	ᮚ	BALINESE LETTER IKARA = i
1B08	ᮛ	BALINESE LETTER IKARA TEDUNG = ii ≡ 1B07 ᮚ 1B35 ᮓ
1B09	ᮜ	BALINESE LETTER UKARA = u
1B0A	ᮝ	BALINESE LETTER UKARA TEDUNG = uu ≡ 1B09 ᮜ 1B35 ᮓ
1B0B	ᮞ	BALINESE LETTER RA REPA = vocalic r
1B0C	ᮟ	BALINESE LETTER RA REPA TEDUNG = vocalic rr ≡ 1B0B ᮞ 1B35 ᮓ
1B0D	ᮠ	BALINESE LETTER LA LENG A = vocalic l
1B0E	ᮡ	BALINESE LETTER LA LENG A TEDUNG = vocalic ll ≡ 1B0D ᮠ 1B35 ᮓ
1B0F	ᮢ	BALINESE LETTER EKARA = e
1B10	ᮣ	BALINESE LETTER AIKARA = ai
1B11	ᮤ	BALINESE LETTER OKARA = o
1B12	ᮥ	BALINESE LETTER OKARA TEDUNG = au ≡ 1B11 ᮤ 1B35 ᮓ

## Consonants

1B13		BALINESE LETTER KA
1B14		BALINESE LETTER KA MAHAPRANA = kha
1B15		BALINESE LETTER GA
1B16		BALINESE LETTER GA GORA = gha
1B17		BALINESE LETTER NGA
1B18		BALINESE LETTER CA
1B19		BALINESE LETTER CA LACA = cha
1B1A		BALINESE LETTER JA
1B1B		BALINESE LETTER JA JERA = jha

1B1C	ꦠꦺꦴ	BALINESE LETTER NYA
1B1D	ꦠꦭꦶꦏ	BALINESE LETTER TA LATIK = tta
1B1E	ꦠꦩꦸꦢ	BALINESE LETTER TA MURDA MAHAPRANA = ttha
1B1F	ꦠꦩꦸꦢꦤ	BALINESE LETTER DA MURDA ALPAPRANA = dda
1B20	ꦠꦩꦸꦢꦤꦲ	BALINESE LETTER DA MURDA MAHAPRANA = ddha
1B21	ꦠꦺꦴꦤꦫꦨꦠ	BALINESE LETTER NA RAMBAT = nna
1B22	ꦠꦺꦴ	BALINESE LETTER TA
1B23	ꦠꦺꦴꦲ	BALINESE LETTER TA TAWA = tha
1B24	ꦠꦺꦴꦢ	BALINESE LETTER DA
1B25	ꦠꦺꦴꦢꦲ	BALINESE LETTER DA MADU = dha
1B26	ꦠꦺꦴꦤ	BALINESE LETTER NA
1B27	ꦠꦺꦴꦥ	BALINESE LETTER PA
1B28	ꦠꦺꦴꦥꦏꦱꦭ	BALINESE LETTER PA KAPAL = pha
1B29	ꦠꦺꦴꦧ	BALINESE LETTER BA
1B2A	ꦠꦺꦴꦧꦏꦺꦩꦧꦁ	BALINESE LETTER BA KEMBANG = bha
1B2B	ꦠꦺꦴꦩ	BALINESE LETTER MA
1B2C	ꦠꦺꦴꦪ	BALINESE LETTER YA
1B2D	ꦠꦺꦴꦫ	BALINESE LETTER RA
1B2E	ꦠꦺꦴꦭ	BALINESE LETTER LA
1B2F	ꦠꦺꦴꦱ	BALINESE LETTER WA
1B30	ꦠꦺꦴꦱꦁ	BALINESE LETTER SA SAGA = sha
1B31	ꦠꦺꦴꦱꦱꦱ	BALINESE LETTER SA SAPA = ssa
1B32	ꦠꦺꦴꦱꦲ	BALINESE LETTER SA
1B33	ꦠꦺꦴꦱꦲ	BALINESE LETTER HA

## Sign

1B34 ◉ BALINESE SIGN REREKAN  
= nukta

### Dependent vowel signs

1B35 ○ BALINESE VOWEL SIGN TEDUNG  
= aa

1B36 ○ BALINESE VOWEL SIGN ULU  
= i

1B37 ○ BALINESE VOWEL SIGN ULU SARI  
= ii

1B38 9 BALINESE VOWEL SIGN SUKU  
= u

1B39 9 BALINESE VOWEL SIGN SUKU ILUT  
= uu

1B3A 9 BALINESE VOWEL SIGN RA REPA  
= vocalic r

1B3B 9 BALINESE VOWEL SIGN RA REPA TEDUNG  
= vocalic rr  
≡ 1B3A 9 1B35 ○
























































1B3C 9 BALINESE VOWEL SIGN LA LENG  
= vocalic l

1B3D 9 BALINESE VOWEL SIGN LA LENG TEDUNG  
= vocalic ll  
≡ 1B3C 9 1B35 ○

## Balinese




1B61	ꦩꦭꦺꦴꦩꦸꦭꦺꦴꦱꦶꦱꦺꦴꦢꦺꦴꦁ	BALINESE MUSICAL SYMBOL DONG
1B62	ꦩꦭꦺꦴꦩꦸꦭꦺꦴꦱꦺꦴꦢꦺꦴꦁꦢꦺꦴꦁ	BALINESE MUSICAL SYMBOL DENG

1B74	^	BALINESE MUSICAL SYMBOL RIGHT-HAND OPEN DUG
1B75	◦	BALINESE MUSICAL SYMBOL RIGHT-HAND OPEN DAG
1B76	✕	BALINESE MUSICAL SYMBOL RIGHT-HAND CLOSED TUK
1B77	⌘	BALINESE MUSICAL SYMBOL RIGHT-HAND CLOSED TAK
1B78	-	BALINESE MUSICAL SYMBOL LEFT-HAND OPEN PANG
1B79	∠	BALINESE MUSICAL SYMBOL LEFT-HAND OPEN PUNG
1B7A	~	BALINESE MUSICAL SYMBOL LEFT-HAND CLOSED PLAK
1B7B	≍	BALINESE MUSICAL SYMBOL LEFT-HAND CLOSED PLUK
1B7C	·	BALINESE MUSICAL SYMBOL LEFT-HAND OPEN PING








	1B8	1B9	1BA	1BB
0	 1B80	 1B90	 1BA0	 1BB0
1	 1B81	 1B91	 1BA1	 1BB1
2	 1B82	 1B92	 1BA2	 1BB2
3	 1B83	 1B93	 1BA3	 1BB3
4	 1B84	 1B94	 1BA4	 1BB4
5	 1B85	 1B95	 1BA5	 1BB5
6	 1B86	 1B96	 1BA6	 1BB6
7	 1B87	 1B97	 1BA7	 1BB7
8	 1B88	 1B98	 1BA8	 1BB8
9	 1B89	 1B99	 1BA9	 1BB9
A	 1B8A	 1B9A	 1BAA	
B	 1B8B	 1B9B		
C	 1B8C	 1B9C		
D	 1B8D	 1B9D		
E	 1B8E	 1B9E	 1BAE	
F	 1B8F	 1B9F	 1BAF	

## 1B80
























**Various signs**

- 1B80  SUNDANESE SIGN PANYECEK  
= anusvara
- 1B81  SUNDANESE SIGN PANGLAYAR  
= repha
- 1B82  SUNDANESE SIGN PANGWISAD  
= visarga

**Vowels**

- 1B83  SUNDANESE LETTER A
- 1B84  SUNDANESE LETTER I
- 1B85  SUNDANESE LETTER U
- 1B86  SUNDANESE LETTER AE
- 1B87  SUNDANESE LETTER O
- 1B88  SUNDANESE LETTER E
- 1B89  SUNDANESE LETTER EU






**Consonants**

- 1B8A  SUNDANESE LETTER KA
- 1B8B  SUNDANESE LETTER QA
- 1B8C  SUNDANESE LETTER GA
- 1B8D  SUNDANESE LETTER NGA
- 1B8E  SUNDANESE LETTER CA
- 1B8F  SUNDANESE LETTER JA
- 1B90  SUNDANESE LETTER ZA
- 1B91  SUNDANESE LETTER NYA
- 1B92  SUNDANESE LETTER TA
- 1B93  SUNDANESE LETTER DA
- 1B94  SUNDANESE LETTER NA
- 1B95  SUNDANESE LETTER PA
- 1B96  SUNDANESE LETTER FA
- 1B97  SUNDANESE LETTER VA
- 1B98  SUNDANESE LETTER BA
- 1B99  SUNDANESE LETTER MA
- 1B9A  SUNDANESE LETTER YA
- 1B9B  SUNDANESE LETTER RA
- 1B9C  SUNDANESE LETTER LA
- 1B9D  SUNDANESE LETTER WA
- 1B9E  SUNDANESE LETTER SA
- 1B9F  SUNDANESE LETTER XA
- 1BA0  SUNDANESE LETTER HA

**Consonants signs**


- 1BA1  SUNDANESE CONSONANT SIGN PAMINGKAL  
= subjoined ya
- 1BA2  SUNDANESE CONSONANT SIGN PANYAKRA  
= subjoined ra
- 1BA3  SUNDANESE CONSONANT SIGN PANYIKU  
= subjoined la

**Vowel signs**


- 1BA4  SUNDANESE VOWEL SIGN PANGHULU  
= i
- 1BA5  SUNDANESE VOWEL SIGN PANYUKU  
= u
- 1BA6  SUNDANESE VOWEL SIGN PANAELAENG  
= ae
- 1BA7  SUNDANESE VOWEL SIGN PANOLONG  
= o
- 1BA8  SUNDANESE VOWEL SIGN PAMEPET  
= e

## Sundanese



## 1BB9

- 1BA9  SUNDANESE VOWEL SIGN PANEULEUNG  
= eu











**Virama**

























































- 1BAA  SUNDANESE SIGN PAMAAEH  
= virama  
• does not form conjuncts

**Additional consonants**

- 1BAE  SUNDANESE LETTER KHA
- 1BAF  SUNDANESE LETTER SYA

**Digits**

- 1BB0  SUNDANESE DIGIT ZERO
- 1BB1  SUNDANESE DIGIT ONE
- 1BB2  SUNDANESE DIGIT TWO
- 1BB3  SUNDANESE DIGIT THREE
- 1BB4  SUNDANESE DIGIT FOUR
- 1BB5  SUNDANESE DIGIT FIVE
- 1BB6  SUNDANESE DIGIT SIX
- 1BB7  SUNDANESE DIGIT SEVEN
- 1BB8  SUNDANESE DIGIT EIGHT
- 1BB9  SUNDANESE DIGIT NINE

	1BC	1BD	1BE	1BF
0	 1BC0	 1BD0	 1BE0	 1BF0
1	 1BC1	 1BD1	 1BE1	 1BF1
2	 1BC2	 1BD2	 1BE2	 1BF2
3	 1BC3	 1BD3	 1BE3	 1BF3
4	 1BC4	 1BD4	 1BE4	
5	 1BC5	 1BD5	 1BE5	
6	 1BC6	 1BD6	 1BE6	
7	 1BC7	 1BD7	 1BE7	
8	 1BC8	 1BD8	 1BE8	
9	 1BC9	 1BD9	 1BE9	
A	 1BCA	 1BDA	 1BEA	
B	 1BCB	 1BDB	 1BEB	
C	 1BCC	 1BDC	 1BEC	 1BFC
D	 1BCD	 1BDD	 1BED	 1BFD
E	 1BCE	 1BDE	 1BEE	 1BFE
F	 1BCF	 1BDF	 1BEF	 1BFF



## 1BC0

**Letters**

1BC0	𐌀	BATAK LETTER A
1BC1	𐌁	BATAK LETTER SIMALUNGUN A
1BC2	𐌂	BATAK LETTER HA
1BC3	𐌃	BATAK LETTER SIMALUNGUN HA
1BC4	𐌄	BATAK LETTER MANDAILING HA
1BC5	𐌅	BATAK LETTER BA
1BC6	𐌆	BATAK LETTER KARO BA
1BC7	𐌇	BATAK LETTER PA
1BC8	𐌈	BATAK LETTER SIMALUNGUN PA
1BC9	𐌉	BATAK LETTER NA
1BCA	𐌊	BATAK LETTER MANDAILING NA
1BCB	𐌋	BATAK LETTER WA
1BCC	𐌌	BATAK LETTER SIMALUNGUN WA
1BCD	𐌍	BATAK LETTER PAKPAK WA
1BCE	𐌎	BATAK LETTER GA
1BCF	𐌏	BATAK LETTER SIMALUNGUN GA
1BD0	𐌐	BATAK LETTER JA
1BD1	𐌑	BATAK LETTER DA
1BD2	𐌒	BATAK LETTER RA
1BD3	𐌓	BATAK LETTER SIMALUNGUN RA
1BD4	𐌔	BATAK LETTER MA
1BD5	𐌕	BATAK LETTER SIMALUNGUN MA
1BD6	𐌖	BATAK LETTER SOUTHERN TA
1BD7	𐌗	BATAK LETTER NORTHERN TA
1BD8	𐌘	BATAK LETTER SA
1BD9	𐌙	BATAK LETTER SIMALUNGUN SA
1BDA	𐌚	BATAK LETTER MANDAILING SA
1BDB	𐌛	BATAK LETTER YA
1BDC	𐌜	BATAK LETTER SIMALUNGUN YA
1BDD	𐌝	BATAK LETTER NGA
1BDE	𐌞	BATAK LETTER LA
1BDF	𐌟	BATAK LETTER SIMALUNGUN LA
1BE0	𐌠	BATAK LETTER NYA
1BE1	𐌡	BATAK LETTER CA
1BE2	𐌢	BATAK LETTER NDA
1BE3	𐌣	BATAK LETTER MBA
1BE4	𐌤	BATAK LETTER I
1BE5	𐌥	BATAK LETTER U

**Sign**

1BE6	𐌦	BATAK SIGN TOMPI
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**Dependent vowel signs**

1BE7	𐌧	BATAK VOWEL SIGN E = kebereten
1BE8	𐌨	BATAK VOWEL SIGN PAKPAK E = ketolongen
1BE9	𐌩	BATAK VOWEL SIGN EE = talinga
1BEA	𐌪	BATAK VOWEL SIGN I = ulua
1BEB	𐌫	BATAK VOWEL SIGN KARO I = haluan
1BEC	𐌬	BATAK VOWEL SIGN O = siala ulu
1BED	𐌭	BATAK VOWEL SIGN KARO O = hatulungan
1BEE	𐌮	BATAK VOWEL SIGN U = boruta

## Batak

## 1BFF

1BEF	𐌯	BATAK VOWEL SIGN U FOR SIMALUNGUN SA = haboritan for simalungun sa
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**Dependent consonant signs**

















































































1BF0	𐌰	BATAK CONSONANT SIGN NG = amisara
1BF1	𐌱	BATAK CONSONANT SIGN H = hajoringan

**Signs**

1BF2	𐌲	BATAK PANGOLAT = virama • cannot follow a vowel sign
1BF3	𐌳	BATAK PANONGONAN = virama

**Symbols**

1BFC	𐌴	BATAK SYMBOL BINDU NA METEK
1BFD	𐌵	BATAK SYMBOL BINDU PINARBORAS
1BFE	𐌶	BATAK SYMBOL BINDU JUDUL
1BFF	𐌷	BATAK SYMBOL BINDU PANGOLAT

	1C0	1C1	1C2	1C3	1C4
0	 1C00	 1C10	 1C20	 1C30	 1C40
1	 1C01	 1C11	 1C21	 1C31	 1C41
2	 1C02	 1C12	 1C22	 1C32	 1C42
3	 1C03	 1C13	 1C23	 1C33	 1C43
4	 1C04	 1C14	 1C24	 1C34	 1C44
5	 1C05	 1C15	 1C25	 1C35	 1C45
6	 1C06	 1C16	 1C26	 1C36	 1C46
7	 1C07	 1C17	 1C27	 1C37	 1C47
8	 1C08	 1C18	 1C28		 1C48
9	 1C09	 1C19	 1C29		 1C49
A	 1C0A	 1C1A	 1C2A		
B	 1C0B	 1C1B	 1C2B	 1C3B	
C	 1C0C	 1C1C	 1C2C	 1C3C	
D	 1C0D	 1C1D	 1C2D	 1C3D	 1C4D
E	 1C0E	 1C1E	 1C2E	 1C3E	 1C4E
F	 1C0F	 1C1F	 1C2F	 1C3F	 1C4F

## 1C00

**Consonants**

1C00	ᱠ	LEPCHA LETTER KA
1C01	ᱡ	LEPCHA LETTER KLA
1C02	ᱢ	LEPCHA LETTER KHA
1C03	ᱣ	LEPCHA LETTER GA
1C04	ᱤ	LEPCHA LETTER GLA
1C05	ᱥ	LEPCHA LETTER NGA
1C06	ᱦ	LEPCHA LETTER CA
1C07	ᱧ	LEPCHA LETTER CHA
1C08	ᱨ	LEPCHA LETTER JA
1C09	ᱩ	LEPCHA LETTER NYA
1C0A	ᱪ	LEPCHA LETTER TA
1C0B	ᱫ	LEPCHA LETTER THA
1C0C	ᱬ	LEPCHA LETTER DA
1C0D	ᱭ	LEPCHA LETTER NA
1C0E	ᱮ	LEPCHA LETTER PA
1C0F	ᱯ	LEPCHA LETTER PLA
1C10	ᱰ	LEPCHA LETTER PHA
1C11	ᱱ	LEPCHA LETTER FA
1C12	ᱲ	LEPCHA LETTER FLA
1C13	ᱳ	LEPCHA LETTER BA
1C14	ᱴ	LEPCHA LETTER BLA
1C15	ᱵ	LEPCHA LETTER MA
1C16	ᱶ	LEPCHA LETTER MLA
1C17	ᱷ	LEPCHA LETTER TSA
1C18	ᱸ	LEPCHA LETTER TSHA
1C19	ᱹ	LEPCHA LETTER DZA
1C1A	ᱺ	LEPCHA LETTER YA
1C1B	ᱻ	LEPCHA LETTER RA
1C1C	ᱼ	LEPCHA LETTER LA
1C1D	ᱽ	LEPCHA LETTER HA
1C1E	᱾	LEPCHA LETTER HLA
1C1F	᱿	LEPCHA LETTER VA
1C20	ᱠ	LEPCHA LETTER SA
1C21	ᱡ	LEPCHA LETTER SHA
1C22	ᱢ	LEPCHA LETTER WA
1C23	ᱣ	LEPCHA LETTER A

**Subjoined consonants**

1C24	ᱤᱞ	LEPCHA SUBJOINED LETTER YA
1C25	ᱤᱟ	LEPCHA SUBJOINED LETTER RA

**Dependent vowels**

1C26	ᱤᱨ	LEPCHA VOWEL SIGN AA
1C27	ᱤᱩ	LEPCHA VOWEL SIGN I
1C28	ᱤᱪ	LEPCHA VOWEL SIGN O
1C29	ᱤᱫ	LEPCHA VOWEL SIGN OO
1C2A	ᱤᱬ	LEPCHA VOWEL SIGN U
1C2B	ᱤᱭ	LEPCHA VOWEL SIGN UU
1C2C	ᱤᱮ	LEPCHA VOWEL SIGN E

**Consonant signs**

1C2D	ᱦᱚ	LEPCHA CONSONANT SIGN K
1C2E	ᱦᱛ	LEPCHA CONSONANT SIGN M
1C2F	ᱦᱜ	LEPCHA CONSONANT SIGN L
1C30	ᱦᱝ	LEPCHA CONSONANT SIGN N
1C31	ᱦᱞ	LEPCHA CONSONANT SIGN P
1C32	ᱦᱟ	LEPCHA CONSONANT SIGN R
1C33	ᱦᱠ	LEPCHA CONSONANT SIGN T
1C34	ᱦᱡ	LEPCHA CONSONANT SIGN NYIN-DO

## Lepcha

## 1C4F

1C35	ᱦᱢ	LEPCHA CONSONANT SIGN KANG
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**Various signs**

1C36	ᱦᱣ	LEPCHA SIGN RAN
1C37	ᱦᱤ	LEPCHA SIGN NUKTA

**Punctuation**

1C3B	ᱦᱥ	LEPCHA PUNCTUATION TA-ROL
1C3C	ᱦᱦ	LEPCHA PUNCTUATION NYET THYOOM TA-ROL
1C3D	ᱦᱧ	LEPCHA PUNCTUATION CER-WA
1C3E	ᱦᱨ	LEPCHA PUNCTUATION TSHOOK CER-WA
1C3F	ᱦᱩ	LEPCHA PUNCTUATION TSHOOK

**Digits**

1C40	ᱦᱪ	LEPCHA DIGIT ZERO
1C41	ᱦᱫ	LEPCHA DIGIT ONE
1C42	ᱦᱬ	LEPCHA DIGIT TWO
1C43	ᱦᱭ	LEPCHA DIGIT THREE
1C44	ᱦᱮ	LEPCHA DIGIT FOUR
1C45	ᱦᱯ	LEPCHA DIGIT FIVE
1C46	ᱦᱰ	LEPCHA DIGIT SIX
1C47	ᱦᱱ	LEPCHA DIGIT SEVEN
1C48	ᱦᱲ	LEPCHA DIGIT EIGHT
1C49	ᱦᱳ	LEPCHA DIGIT NINE

**Additional letters**

1C4D	ᱦᱴ	LEPCHA LETTER TTA
1C4E	ᱦᱵ	LEPCHA LETTER TTTHA
1C4F	ᱦᱶ	LEPCHA LETTER DDA

	1C5	1C6	1C7
0	0 1C50	ᵇ 1C60	ᵐ 1C70
1	ᵇ 1C51	ᵈ 1C61	ᵑ 1C71
2	ᶇ 1C52	ᶈ 1C62	ᶊ 1C72
3	ᶋ 1C53	ᶌ 1C63	ᶍ 1C73
4	ᶎ 1C54	ᶏ 1C64	ᶐ 1C74
5	ᶑ 1C55	ᶒ 1C65	ᶓ 1C75
6	ᶕ 1C56	ᶖ 1C66	ᶗ 1C76
7	ᶙ 1C57	ᶚ 1C67	ᶛ 1C77
8	ᶜ 1C58	ᶜ 1C68	· 1C78
9	ᶜ 1C59	ᶜ 1C69	· 1C79
A	ᶜ 1C5A	ᶜ 1C6A	· 1C7A
B	ᵐ 1C5B	ᵐ 1C6B	~ 1C7B
C	ᶜ 1C5C	ᶜ 1C6C	- 1C7C
D	ᶜ 1C5D	ᶜ 1C6D	ᶜ 1C7D
E	ᵐ 1C5E	ᶜ 1C6E	ᵐ 1C7E
F	ᶜ 1C5F	ᶜ 1C6F	ᵐ 1C7F

**Digits**

1C50	0	OL CHIKI DIGIT ZERO
1C51	ᵇ	OL CHIKI DIGIT ONE
1C52	ᶇ	OL CHIKI DIGIT TWO
1C53	ᶋ	OL CHIKI DIGIT THREE
1C54	ᶎ	OL CHIKI DIGIT FOUR
1C55	ᶑ	OL CHIKI DIGIT FIVE
1C56	ᶕ	OL CHIKI DIGIT SIX
1C57	ᶙ	OL CHIKI DIGIT SEVEN
1C58	ᶜ	OL CHIKI DIGIT EIGHT
1C59	ᶜ	OL CHIKI DIGIT NINE

**Letters**




































1C5A	ᶜ	OL CHIKI LETTER LA
1C5B	ᵐ	OL CHIKI LETTER AT
1C5C	ᶜ	OL CHIKI LETTER AG
1C5D	ᶜ	OL CHIKI LETTER ANG
1C5E	ᵐ	OL CHIKI LETTER AL
1C5F	ᶜ	OL CHIKI LETTER LAA
1C60	ᵇ	OL CHIKI LETTER AAK
1C61	ᵈ	OL CHIKI LETTER AAJ
1C62	ᶈ	OL CHIKI LETTER AAM
1C63	ᶌ	OL CHIKI LETTER AAW
1C64	ᶏ	OL CHIKI LETTER LI
1C65	ᶒ	OL CHIKI LETTER IS
1C66	ᶖ	OL CHIKI LETTER IH
1C67	ᶙ	OL CHIKI LETTER INY
1C68	ᶛ	OL CHIKI LETTER IR
1C69	ᶜ	OL CHIKI LETTER LU
1C6A	ᶜ	OL CHIKI LETTER UC
1C6B	ᶜ	OL CHIKI LETTER UD
1C6C	ᶜ	OL CHIKI LETTER UNN
1C6D	ᶜ	OL CHIKI LETTER UY
1C6E	ᶜ	OL CHIKI LETTER LE
1C6F	ᶜ	OL CHIKI LETTER EP
1C70	ᵐ	OL CHIKI LETTER EDD
1C71	ᶜ	OL CHIKI LETTER EN
1C72	ᶜ	OL CHIKI LETTER ERR
1C73	ᶜ	OL CHIKI LETTER LO
1C74	ᶜ	OL CHIKI LETTER OTT
1C75	ᵐ	OL CHIKI LETTER OB
1C76	ᶜ	OL CHIKI LETTER OV
1C77	ᶜ	OL CHIKI LETTER OH

**Modifier letters**

1C78	·	OL CHIKI MU TTUDDAG • nasalization mark
1C79	·	OL CHIKI GAAHLAA TTUDDAAG • vowel modifier
1C7A	·	OL CHIKI MU-GAAHLAA TTUDDAAG
1C7B	~	OL CHIKI RELAA • length mark
1C7C	-	OL CHIKI PHAARKAA • glottal protector
1C7D	ᶜ	OL CHIKI AHAD • deglottalizes consonants

**Punctuation**

1C7E	ᵐ	OL CHIKI PUNCTUATION MUCAAD
1C7F	ᵐ	OL CHIKI PUNCTUATION DOUBLE MUCAAD

	1CD	1CE	1CF
0	 1CD0	 1CE0	 1CF0
1	 1CD1	 1CE1	 1CF1
2	 1CD2	 1CE2	 1CF2
3	 1CD3	 1CE3	
4	 1CD4	 1CE4	
5	 1CD5	 1CE5	
6	 1CD6	 1CE6	
7	 1CD7	 1CE7	
8	 1CD8	 1CE8	
9	 1CD9	 1CE9	
A	 1CDA	 1CEA	
B	 1CDB	 1CEB	
C	 1CDC	 1CEC	
D	 1CDD	 1CED	
E	 1CDE	 1CEE	
F	 1CDF	 1CEF	

**Tone marks for the Samaveda**

- 1CD0 ◌̎ VEDIC TONE KARSHANA  
= vaidika saamasvara karshanna
- 1CD1 ◌̎ VEDIC TONE SHARA  
= vaidika svarita uurdhva shara
- 1CD2 ◌̎ VEDIC TONE PRENKHA  
• indicates vibrato  
= vaidika saamasvara prenkha
- 1CD3 ~ VEDIC SIGN NIHSHVASA  
= vaidika saamagaana yogakaala

**Signs for Yajurvedic**

- 1CD4 ◌̎ VEDIC SIGN YAJURVEDIC MIDLINE SVARITA  
• also used in the Vajasaneyi Madhyandina Samhita
- 1CD5 ◌̎ VEDIC TONE YAJURVEDIC AGGRAVATED INDEPENDENT SVARITA  
= vaidika svarita adho nyubja
- 1CD6 ◌̎ VEDIC TONE YAJURVEDIC INDEPENDENT SVARITA  
= vaidika svarita adhah konna
- 1CD7 ◌̎ VEDIC TONE YAJURVEDIC KATHAKA INDEPENDENT SVARITA  
= vaidika svarita adho vakra rekhaa
- 1CD8 ◌̎ VEDIC TONE CANDRA BELOW  
= vaidika svarita adho'rdha vakra
- 1CD9 ◌̎ VEDIC TONE YAJURVEDIC KATHAKA INDEPENDENT SVARITA SCHROEDER  
= vaidika svarita adhah samyukta rekhaa
- 1CDA ◌̎ VEDIC TONE DOUBLE SVARITA  
= vaidika svarita uurdhva dvi rekhaa  
→ 0951 ◌̎ devanagari stress sign udatta
- 1CDB ◌̎ VEDIC TONE TRIPLE SVARITA  
= vaidika svarita uurdhva tri rekhaa
- 1CDC ◌̎ VEDIC TONE KATHAKA ANUDATTA  
= vaidika svarita adho rekhaa  
→ 0952 ◌̎ devanagari stress sign anudatta
- 1CDD ◌̎ VEDIC TONE DOT BELOW  
= vaidika svarita adho bindu

**Tone marks for the Satapathabrahmana**

- 1CDE ◌̎ VEDIC TONE TWO DOTS BELOW  
= vaidika svarita adho dvi bindu
- 1CDF ◌̎ VEDIC TONE THREE DOTS BELOW  
= vaidika svarita adhas tri bindu

**Tone mark for the Rigveda**

- 1CE0 ◌̎ VEDIC TONE RIGVEDIC KASHMIRI INDEPENDENT SVARITA  
= vaidika uurdhva vakra rekhaa

**Tone mark for the Atharvaveda**

- 1CE1 ◌̎ VEDIC TONE ATHARVAVEDIC INDEPENDENT SVARITA  
= vaidika svarita dvi vakra khaanda

**Diacritics for visarga**

- 1CE2 ◌̎ VEDIC SIGN VISARGA SVARITA  
= vaidika madhyarekhaa
- 1CE3 ◌̎ VEDIC SIGN VISARGA UDATTA  
= vaidika visarga dakshinnatah uurdhvaga
- 1CE4 ◌̎ VEDIC SIGN REVERSED VISARGA UDATTA  
= vaidika visarga vaamatah uurdhvaga

- 1CE5 ◌̎ VEDIC SIGN VISARGA ANUDATTA  
= vaidika visarga vaamatah adhoga
- 1CE6 ◌̎ VEDIC SIGN REVERSED VISARGA ANUDATTA  
= vaidika visarga dakshinnatah adhoga
- 1CE7 ◌̎ VEDIC SIGN VISARGA UDATTA WITH TAIL  
= vaidika visarga dakshinnatah uurdhva vakra
- 1CE8 ◌̎ VEDIC SIGN VISARGA ANUDATTA WITH TAIL  
= vaidika visarga vaamatah adho vakra

**Marks of nasalization**

- 1CE9 ◌̎ VEDIC SIGN ANUSVARA ANTARGOMUKHA  
= vaidika anusvaara antarmukha
- 1CEA ◌̎ VEDIC SIGN ANUSVARA BAHIRGOMUKHA  
= vaidika anusvaara naagaphanna
- 1CEB ◌̎ VEDIC SIGN ANUSVARA VAMAGOMUKHA  
= vaidika anusvaara vaamagomukha
- 1CEC ◌̎ VEDIC SIGN ANUSVARA VAMAGOMUKHA WITH TAIL  
= vaidika anusvaara vaamagomukha sa-vakra
- 1CED ◌̎ VEDIC SIGN TIRYAK  
= vaidika tiryak
- 1CEE ◌̎ VEDIC SIGN HEXIFORM LONG ANUSVARA  
= vaidika anusvaara anugaamii
- 1CEF ◌̎ VEDIC SIGN LONG ANUSVARA  
= vaidika anusvaara dakshinnamukha
- 1CF0 ◌̎ VEDIC SIGN RTHANG LONG ANUSVARA  
= vaidika anusvaara ttha-sadrisha
- 1CF1 ◌̎ VEDIC SIGN ANUSVARA UBHAYATO MUKHA  
= vaidika anusvaara ubhayato mukha

**Ardhavisarga**

- 1CF2 ◌̎ VEDIC SIGN ARDHAVISARGA  
= vaidika jihvaamuuliya upadhmaaniya  
→ 0CF1 ◌̎ kannada sign jihvamuliya  
→ 0CF2 ◌̎ kannada sign upadhmaniya

1D00

## Phonetic Extensions

1D7F

	1D0	1D1	1D2	1D3	1D4	1D5	1D6	1D7
0	A 1D00	ᠠ 1D10	ᠡ 1D20	ᠢ 1D30	ᠣ 1D40	ᠤ 1D50	ᠥ 1D60	ᠦ 1D70
1	Æ 1D01	ᠢ 1D11	ᠣ 1D21	ᠣ 1D31	ᠣ 1D41	ᠣ 1D51	ᠣ 1D61	ᠣ 1D71
2	æ 1D02	ᠣ 1D12	ᠣ 1D22	ᠣ 1D32	ᠣ 1D42	ᠣ 1D52	ᠣ 1D62	ᠣ 1D72
3	B 1D03	ᠣ 1D13	ᠣ 1D23	ᠣ 1D33	ᠣ 1D43	ᠣ 1D53	ᠣ 1D63	ᠣ 1D73
4	C 1D04	ᠣ 1D14	ᠣ 1D24	ᠣ 1D34	ᠣ 1D44	ᠣ 1D54	ᠣ 1D64	ᠣ 1D74
5	D 1D05	ᠣ 1D15	ᠣ 1D25	ᠣ 1D35	ᠣ 1D45	ᠣ 1D55	ᠣ 1D65	ᠣ 1D75
6	ᠢ 1D06	ᠣ 1D16	ᠣ 1D26	ᠣ 1D36	ᠣ 1D46	ᠣ 1D56	ᠣ 1D66	ᠣ 1D76
7	E 1D07	ᠣ 1D17	ᠣ 1D27	ᠣ 1D37	ᠣ 1D47	ᠣ 1D57	ᠣ 1D67	ᠣ 1D77
8	ᠢ 1D08	ᠣ 1D18	ᠣ 1D28	ᠣ 1D38	ᠣ 1D48	ᠣ 1D58	ᠣ 1D68	ᠣ 1D78
9	ᠢ 1D09	ᠣ 1D19	ᠣ 1D29	ᠣ 1D39	ᠣ 1D49	ᠣ 1D59	ᠣ 1D69	ᠣ 1D79
A	J 1D0A	ᠣ 1D1A	ᠣ 1D2A	ᠣ 1D3A	ᠣ 1D4A	ᠣ 1D5A	ᠣ 1D6A	ᠣ 1D7A
B	K 1D0B	ᠣ 1D1B	ᠣ 1D2B	ᠣ 1D3B	ᠣ 1D4B	ᠣ 1D5B	ᠣ 1D6B	ᠣ 1D7B
C	L 1D0C	ᠣ 1D1C	ᠣ 1D2C	ᠣ 1D3C	ᠣ 1D4C	ᠣ 1D5C	ᠣ 1D6C	ᠣ 1D7C
D	M 1D0D	ᠣ 1D1D	ᠣ 1D2D	ᠣ 1D3D	ᠣ 1D4D	ᠣ 1D5D	ᠣ 1D6D	ᠣ 1D7D
E	ᠢ 1D0E	ᠣ 1D1E	ᠣ 1D2E	ᠣ 1D3E	ᠣ 1D4E	ᠣ 1D5E	ᠣ 1D6E	ᠣ 1D7E
F	O 1D0F	ᠣ 1D1F	ᠣ 1D2F	ᠣ 1D3F	ᠣ 1D4F	ᠣ 1D5F	ᠣ 1D6F	ᠣ 1D7F

*These are non-IPA phonetic extensions, mostly for the Uralic Phonetic Alphabet (UPA).*

*The small capitals, superscript, and subscript forms are for phonetic representations where style variations are semantically important.*

*For general text, use regular Latin, Greek or Cyrillic letters with markup instead.*

#### Latin letters

1D00	A	LATIN LETTER SMALL CAPITAL A
1D01	Æ	LATIN LETTER SMALL CAPITAL AE
1D02	æ	LATIN SMALL LETTER TURNED AE • glyph can also have sideways orientation
1D03	B	LATIN LETTER SMALL CAPITAL BARRED B
1D04	C	LATIN LETTER SMALL CAPITAL C
1D05	D	LATIN LETTER SMALL CAPITAL D
1D06	Ð	LATIN LETTER SMALL CAPITAL ETH
1D07	E	LATIN LETTER SMALL CAPITAL E
1D08	ɜ	LATIN SMALL LETTER TURNED OPEN E
1D09	İ	LATIN SMALL LETTER TURNED I
1D0A	J	LATIN LETTER SMALL CAPITAL J
1D0B	K	LATIN LETTER SMALL CAPITAL K
1D0C	Ł	LATIN LETTER SMALL CAPITAL L WITH STROKE
1D0D	M	LATIN LETTER SMALL CAPITAL M
1D0E	℥	LATIN LETTER SMALL CAPITAL REVERSED N
1D0F	O	LATIN LETTER SMALL CAPITAL O
1D10	Ɔ	LATIN LETTER SMALL CAPITAL OPEN O
1D11	o	LATIN SMALL LETTER SIDEWAYS O
1D12	Ɔ	LATIN SMALL LETTER SIDEWAYS OPEN O
1D13	ø	LATIN SMALL LETTER SIDEWAYS O WITH STROKE
1D14	æ̃	LATIN SMALL LETTER TURNED OE • glyph can also have sideways orientation
1D15	ø	LATIN LETTER SMALL CAPITAL OU
1D16	ʌ	LATIN SMALL LETTER TOP HALF O
1D17	ʊ	LATIN SMALL LETTER BOTTOM HALF O
1D18	P	LATIN LETTER SMALL CAPITAL P • represents a semi-voiced [p]
1D19	ɹ	LATIN LETTER SMALL CAPITAL REVERSED R
1D1A	ɹ	LATIN LETTER SMALL CAPITAL TURNED R
1D1B	T	LATIN LETTER SMALL CAPITAL T
1D1C	U	LATIN LETTER SMALL CAPITAL U
1D1D	Ɔ	LATIN SMALL LETTER SIDEWAYS U
1D1E	ɥ̥	LATIN SMALL LETTER SIDEWAYS DIAERESIZED U • glyph can also have turned orientation
1D1F	ɥ̥	LATIN SMALL LETTER SIDEWAYS TURNED M
1D20	V	LATIN LETTER SMALL CAPITAL V
1D21	W	LATIN LETTER SMALL CAPITAL W
1D22	Z	LATIN LETTER SMALL CAPITAL Z
1D23	ɜ	LATIN LETTER SMALL CAPITAL EZH
1D24	ɜ̥	LATIN LETTER VOICED LARYNGEAL SPIRANT
1D25	ʁ	LATIN LETTER AIN

#### Greek letters

1D26	Γ	GREEK LETTER SMALL CAPITAL GAMMA
1D27	Λ	GREEK LETTER SMALL CAPITAL LAMDA
1D28	Π	GREEK LETTER SMALL CAPITAL PI
1D29	Ρ	GREEK LETTER SMALL CAPITAL RHO • represents a voiceless uvular trill
1D2A	Ψ	GREEK LETTER SMALL CAPITAL PSI

#### Cyrillic letter

1D2B	Ӏ	CYRILLIC LETTER SMALL CAPITAL EL • in italic style, the glyph is obliqued, not italicized → 043B Ӏ cyrillic small letter el
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#### Latin superscript modifier letters

1D2C	ˆ	MODIFIER LETTER CAPITAL A ≈ <sup> 0041 ˆ A
1D2D	ˆ	MODIFIER LETTER CAPITAL AE ≈ <sup> 00C6 ˆ Æ
1D2E	ˆ	MODIFIER LETTER CAPITAL B ≈ <sup> 0042 ˆ B
1D2F	ˆ	MODIFIER LETTER CAPITAL BARRED B
1D30	ˆ	MODIFIER LETTER CAPITAL D ≈ <sup> 0044 ˆ D
1D31	ˆ	MODIFIER LETTER CAPITAL E ≈ <sup> 0045 ˆ E
1D32	ˆ	MODIFIER LETTER CAPITAL REVERSED E ≈ <sup> 018E ˆ Ǝ
1D33	ˆ	MODIFIER LETTER CAPITAL G ≈ <sup> 0047 ˆ G
1D34	ˆ	MODIFIER LETTER CAPITAL H ≈ <sup> 0048 ˆ H
1D35	ˆ	MODIFIER LETTER CAPITAL I ≈ <sup> 0049 ˆ I
1D36	ˆ	MODIFIER LETTER CAPITAL J ≈ <sup> 004A ˆ J
1D37	ˆ	MODIFIER LETTER CAPITAL K ≈ <sup> 004B ˆ K
1D38	ˆ	MODIFIER LETTER CAPITAL L ≈ <sup> 004C ˆ L
1D39	ˆ	MODIFIER LETTER CAPITAL M ≈ <sup> 004D ˆ M
1D3A	ˆ	MODIFIER LETTER CAPITAL N ≈ <sup> 004E ˆ N
1D3B	ˆ	MODIFIER LETTER CAPITAL REVERSED N
1D3C	ˆ	MODIFIER LETTER CAPITAL O ≈ <sup> 004F ˆ O
1D3D	ˆ	MODIFIER LETTER CAPITAL OU ≈ <sup> 0222 ˆ 8
1D3E	ˆ	MODIFIER LETTER CAPITAL P ≈ <sup> 0050 ˆ P
1D3F	ˆ	MODIFIER LETTER CAPITAL R ≈ <sup> 0052 ˆ R
1D40	ˆ	MODIFIER LETTER CAPITAL T ≈ <sup> 0054 ˆ T
1D41	ˆ	MODIFIER LETTER CAPITAL U ≈ <sup> 0055 ˆ U
1D42	ˆ	MODIFIER LETTER CAPITAL W ≈ <sup> 0057 ˆ W
1D43	ˆ	MODIFIER LETTER SMALL A ≈ <sup> 0061 ˆ a
1D44	ˆ	MODIFIER LETTER SMALL TURNED A ≈ <sup> 0250 ˆ ʁ
1D45	ˆ	MODIFIER LETTER SMALL ALPHA ≈ <sup> 0251 ˆ α
1D46	ˆ	MODIFIER LETTER SMALL TURNED AE ≈ <sup> 1D02 ˆ æ



## 1D47

## Phonetic Extensions

## 1D79

1D47	<sup>b</sup>	MODIFIER LETTER SMALL B ≈ <super> 0062 <b>b</b>
1D48	<sup>d</sup>	MODIFIER LETTER SMALL D ≈ <super> 0064 <b>d</b>
1D49	<sup>e</sup>	MODIFIER LETTER SMALL E ≈ <super> 0065 <b>e</b>
1D4A	<sup>ə</sup>	MODIFIER LETTER SMALL SCHWA ≈ <super> 0259 <b>ə</b>
1D4B	<sup>ɛ</sup>	MODIFIER LETTER SMALL OPEN E ≈ <super> 0258 <b>ɛ</b>
1D4C	<sup>ɜ</sup>	MODIFIER LETTER SMALL TURNED OPEN E • more appropriate equivalence would be to 1D08 <b>ɜ</b> ≈ <super> 025C <b>ɜ</b>
1D4D	<sup>g</sup>	MODIFIER LETTER SMALL G ≈ <super> 0067 <b>g</b>
1D4E	<sup>ɪ</sup>	MODIFIER LETTER SMALL TURNED I
1D4F	<sup>k</sup>	MODIFIER LETTER SMALL K ≈ <super> 0068 <b>k</b>
1D50	<sup>m</sup>	MODIFIER LETTER SMALL M ≈ <super> 006D <b>m</b>
1D51	<sup>ŋ</sup>	MODIFIER LETTER SMALL ENG ≈ <super> 014B <b>ŋ</b>
1D52	<sup>o</sup>	MODIFIER LETTER SMALL O ≈ <super> 006F <b>o</b>
1D53	<sup>ɔ</sup>	MODIFIER LETTER SMALL OPEN O ≈ <super> 0254 <b>ɔ</b>
1D54	<sup>ʌ</sup>	MODIFIER LETTER SMALL TOP HALF O ≈ <super> 1D16 <b>ʌ</b>
1D55	<sup>ʊ</sup>	MODIFIER LETTER SMALL BOTTOM HALF O ≈ <super> 1D17 <b>ʊ</b>
1D56	<sup>p</sup>	MODIFIER LETTER SMALL P ≈ <super> 0070 <b>p</b>
1D57	<sup>t</sup>	MODIFIER LETTER SMALL T ≈ <super> 0074 <b>t</b>
1D58	<sup>u</sup>	MODIFIER LETTER SMALL U ≈ <super> 0075 <b>u</b>
1D59	<sup>ɹ</sup>	MODIFIER LETTER SMALL SIDEWAYS U ≈ <super> 1D1D <b>ɹ</b>
1D5A	<sup>ɸ</sup>	MODIFIER LETTER SMALL TURNED M ≈ <super> 026F <b>ɸ</b>
1D5B	<sup>v</sup>	MODIFIER LETTER SMALL V ≈ <super> 0076 <b>v</b>
1D5C	<sup>ʌ</sup>	MODIFIER LETTER SMALL AIN ≈ <super> 1D25 <b>ʌ</b>

**Greek superscript modifier letters**

1D5D	<sup>β</sup>	MODIFIER LETTER SMALL BETA ≈ <super> 03B2 <b>β</b>
1D5E	<sup>γ</sup>	MODIFIER LETTER SMALL GREEK GAMMA ≈ <super> 03B3 <b>γ</b>
1D5F	<sup>δ</sup>	MODIFIER LETTER SMALL DELTA ≈ <super> 03B4 <b>δ</b>
1D60	<sup>φ</sup>	MODIFIER LETTER SMALL GREEK PHI ≈ <super> 03C6 <b>φ</b>
1D61	<sup>χ</sup>	MODIFIER LETTER SMALL CHI ≈ <super> 03C7 <b>χ</b>

**Latin subscript modifier letters**

1D62	<sub>i</sub>	LATIN SUBSCRIPT SMALL LETTER I ≈ <sub> 0069 <b>i</b>
1D63	<sub>r</sub>	LATIN SUBSCRIPT SMALL LETTER R ≈ <sub> 0072 <b>r</b>
1D64	<sub>u</sub>	LATIN SUBSCRIPT SMALL LETTER U ≈ <sub> 0075 <b>u</b>
1D65	<sub>v</sub>	LATIN SUBSCRIPT SMALL LETTER V ≈ <sub> 0076 <b>v</b>

**Greek subscript modifier letters**

1D66	<sub>β</sub>	GREEK SUBSCRIPT SMALL LETTER BETA ≈ <sub> 03B2 <b>β</b>
1D67	<sub>γ</sub>	GREEK SUBSCRIPT SMALL LETTER GAMMA ≈ <sub> 03B3 <b>γ</b>
1D68	<sub>ρ</sub>	GREEK SUBSCRIPT SMALL LETTER RHO ≈ <sub> 03C1 <b>ρ</b>
1D69	<sub>φ</sub>	GREEK SUBSCRIPT SMALL LETTER PHI ≈ <sub> 03C6 <b>φ</b>
1D6A	<sub>χ</sub>	GREEK SUBSCRIPT SMALL LETTER CHI ≈ <sub> 03C7 <b>χ</b>

**Latin letter**

1D6B	<b>œ</b>	LATIN SMALL LETTER UE
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**Latin letters with middle tilde**

*An additional letter with middle tilde is found in another block.*

		→ 026B <b>ł</b> latin small letter l with middle tilde
1D6C	<b>ḃ</b>	LATIN SMALL LETTER B WITH MIDDLE TILDE
1D6D	<b>ḋ</b>	LATIN SMALL LETTER D WITH MIDDLE TILDE
1D6E	<b>ḑ</b>	LATIN SMALL LETTER F WITH MIDDLE TILDE
1D6F	<b>ḥ</b>	LATIN SMALL LETTER M WITH MIDDLE TILDE
1D70	<b>ḡ</b>	LATIN SMALL LETTER N WITH MIDDLE TILDE
1D71	<b>ḣ</b>	LATIN SMALL LETTER P WITH MIDDLE TILDE
1D72	<b>ḥ</b>	LATIN SMALL LETTER R WITH MIDDLE TILDE
1D73	<b>ḥ</b>	LATIN SMALL LETTER R WITH FISHHOOK AND MIDDLE TILDE
1D74	<b>ḥ</b>	LATIN SMALL LETTER S WITH MIDDLE TILDE
1D75	<b>ḥ</b>	LATIN SMALL LETTER T WITH MIDDLE TILDE
1D76	<b>ḥ</b>	LATIN SMALL LETTER Z WITH MIDDLE TILDE

**Caucasian linguistics**

1D77	<b>Ბ</b>	LATIN SMALL LETTER TURNED G • Georgian transcription → 10F9 <b>Ბ</b> georgian letter turned gan
1D78	<b>Ს</b>	MODIFIER LETTER CYRILLIC EN ≈ <super> 043D <b>Ს</b>

**Other phonetic symbols**

1D79	<b>ᵿ</b>	LATIN SMALL LETTER INSULAR G • older Irish phonetic notation • uppercase is A77D <b>ᵿ</b> → 0067 <b>g</b> latin small letter g → 021D <b>ᵿ</b> latin small letter yogh → 0261 <b>g</b> latin small letter script g → 0263 <b>γ</b> latin small letter gamma
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- 1D7A **th** LATIN SMALL LETTER TH WITH STRIKETHROUGH
- American dictionary usage
  - 03B8 **θ** greek small letter theta
- 1D7B **ɿ** LATIN SMALL CAPITAL LETTER I WITH STROKE
- used with different meanings by Americanists and Oxford dictionaries
- 1D7C **ɿ** LATIN SMALL LETTER IOTA WITH STROKE
- used by Russianists
- 1D7D **ɸ** LATIN SMALL LETTER P WITH STROKE
- used by Americanists
  - uppercase is 2C63 **Ɔ**
- 1D7E **ɸ** LATIN SMALL CAPITAL LETTER U WITH STROKE
- used by Americanists
- 1D7F **ɸ** LATIN SMALL LETTER UPSILON WITH STROKE
- used by Americanists and Oxford dictionaries

	1D8	1D9	1DA	1DB
0	ḅ 1D80	ḁ 1D90	f 1DA0	N 1DB0
1	ḋ 1D81	ḑ 1D91	J 1DA1	ḡ 1DB1
2	ḟ 1D82	ḕ 1D92	g 1DA2	Φ 1DB2
3	ḡ 1D83	ḗ 1D93	ȳ 1DA3	§ 1DB3
4	ḵ 1D84	ḓ 1D94	ı̇ 1DA4	ƒ 1DB4
5	ḷ 1D85	ḡ 1D95	ı̇ 1DA5	ṭ 1DB5
6	ṁ 1D86	ḭ 1D96	I 1DA6	ḡ 1DB6
7	ṅ 1D87	ṛ 1D97	ı̇ 1DA7	ṽ 1DB7
8	Ṗ 1D88	Ṟ 1D98	j 1DA8	U 1DB8
9	ṙ 1D89	ṡ 1D99	l 1DA9	ṽ 1DB9
A	Ṣ 1D8A	Ṥ 1D9A	ı̇ 1DAA	Λ 1DBA
B	Ṧ 1D8B	Ṩ 1D9B	L 1DAB	Z 1DBB
C	Ṛ 1D8C	c 1D9C	ṁ 1DAC	ẓ 1DBC
D	Ṙ 1D8D	ḥ 1D9D	ȳ 1DAD	ẓ 1DBD
E	Ṛ 1D8E	ḥ 1D9E	ȳ 1DAE	3 1DBE
F	ḁ 1D8F	3 1D9F	ȳ 1DAF	θ 1DBF

**Latin letters with palatal hook**

*An additional letter with palatal hook is found in another block.*

→ 01AB ʈ latin small letter t with palatal hook

1D80	ḃ	LATIN SMALL LETTER B WITH PALATAL HOOK
1D81	ḋ	LATIN SMALL LETTER D WITH PALATAL HOOK
1D82	ḑ	LATIN SMALL LETTER F WITH PALATAL HOOK
1D83	ḡ	LATIN SMALL LETTER G WITH PALATAL HOOK
1D84	ḕ	LATIN SMALL LETTER K WITH PALATAL HOOK
1D85	ḗ	LATIN SMALL LETTER L WITH PALATAL HOOK
1D86	ḡ	LATIN SMALL LETTER M WITH PALATAL HOOK
1D87	ḡ	LATIN SMALL LETTER N WITH PALATAL HOOK
1D88	ḡ	LATIN SMALL LETTER P WITH PALATAL HOOK
1D89	ḡ	LATIN SMALL LETTER R WITH PALATAL HOOK
1D8A	ḡ	LATIN SMALL LETTER S WITH PALATAL HOOK
1D8B	ḡ	LATIN SMALL LETTER ESH WITH PALATAL HOOK
1D8C	ḡ	LATIN SMALL LETTER V WITH PALATAL HOOK
1D8D	ḡ	LATIN SMALL LETTER X WITH PALATAL HOOK
1D8E	ḡ	LATIN SMALL LETTER Z WITH PALATAL HOOK

**Latin letters with retroflex hook**

*IPA recommends transcribing vowels with r-coloring (rhoticity) with the rhotic hook instead.*

→ 02DE ˘ modifier letter rhotic hook

*Additional letters with retroflex hook are found in other blocks.*

→ 01AE Ƨ latin capital letter t with retroflex hook  
 → 0256 ɖ latin small letter d with tail  
 → 026D ɭ latin small letter l with retroflex hook  
 → 0273 ɱ latin small letter n with retroflex hook  
 → 027B ɹ latin small letter turned r with hook  
 → 027D ɽ latin small letter r with tail  
 → 0282 ʂ latin small letter s with hook  
 → 0285 ʐ latin small letter squat reversed esh  
 → 0288 ɽ latin small letter t with retroflex hook  
 → 0290 ɹ latin small letter z with retroflex hook  
 → 02AF ɸ latin small letter turned h with fishhook and tail

1D8F	Ḃ	LATIN SMALL LETTER A WITH RETROFLEX HOOK
1D90	Ḅ	LATIN SMALL LETTER ALPHA WITH RETROFLEX HOOK
1D91	Ḇ	LATIN SMALL LETTER D WITH HOOK AND TAIL
1D92	Ḉ	LATIN SMALL LETTER E WITH RETROFLEX HOOK
1D93	Ḱ	LATIN SMALL LETTER OPEN E WITH RETROFLEX HOOK
1D94	Ḳ	LATIN SMALL LETTER REVERSED OPEN E WITH RETROFLEX HOOK
		→ 025D ɸ latin small letter reversed open e with hook
1D95	Ḭ	LATIN SMALL LETTER SCHWA WITH RETROFLEX HOOK
		→ 025A ɸ latin small letter schwa with hook
1D96	Ḱ	LATIN SMALL LETTER I WITH RETROFLEX HOOK
1D97	Ḳ	LATIN SMALL LETTER OPEN O WITH RETROFLEX HOOK
1D98	Ḵ	LATIN SMALL LETTER ESH WITH RETROFLEX HOOK

1D99	Ḳ	LATIN SMALL LETTER U WITH RETROFLEX HOOK
1D9A	Ḵ	LATIN SMALL LETTER EZH WITH RETROFLEX HOOK

**Modifier letters**

*Other modifier letters can be found in the Spacing Modifier Letters, Phonetic Extensions, as well as Superscripts and Subscripts blocks.*












































1D9B	ᵀ	MODIFIER LETTER SMALL TURNED ALPHA
		≈ <super> 0252 ɒ
1D9C	ᶜ	MODIFIER LETTER SMALL C
		≈ <super> 0063 c
1D9D	ᶜ	MODIFIER LETTER SMALL C WITH CURL
		≈ <super> 0255 ɕ
1D9E	ᶑ	MODIFIER LETTER SMALL ETH
		≈ <super> 00F0 ð
1D9F	ᶑ	MODIFIER LETTER SMALL REVERSED OPEN E
		≈ <super> 025C ɜ
1DA0	ᶑ	MODIFIER LETTER SMALL F
		≈ <super> 0066 f
1DA1	ᶑ	MODIFIER LETTER SMALL DOTLESS J WITH STROKE
		≈ <super> 025F ʝ
1DA2	ᶑ	MODIFIER LETTER SMALL SCRIPT G
		≈ <super> 0261 g
1DA3	ᶑ	MODIFIER LETTER SMALL TURNED H
		≈ <super> 0265 ɥ
1DA4	ᶑ	MODIFIER LETTER SMALL I WITH STROKE
		≈ <super> 0268 i
1DA5	ᶑ	MODIFIER LETTER SMALL IOTA
		≈ <super> 0269 ɪ
1DA6	ᶑ	MODIFIER LETTER SMALL CAPITAL I
		• not for use in UPA
		→ 1D35 ɪ modifier letter capital i
		≈ <super> 026A ɪ
1DA7	ᶑ	MODIFIER LETTER SMALL CAPITAL I WITH STROKE
		≈ <super> 1D7B ɨ
1DA8	ᶑ	MODIFIER LETTER SMALL J WITH CROSSED-TAIL
		≈ <super> 029D ʝ
1DA9	ᶑ	MODIFIER LETTER SMALL L WITH RETROFLEX HOOK
		≈ <super> 026D ɭ
1DAA	ᶑ	MODIFIER LETTER SMALL L WITH PALATAL HOOK
		≈ <super> 1D85 ɮ
1DAB	ᶑ	MODIFIER LETTER SMALL CAPITAL L
		• not for use in UPA
		→ 1D38 ɬ modifier letter capital l
		≈ <super> 029F ɬ
1DAC	ᶑ	MODIFIER LETTER SMALL M WITH HOOK
		≈ <super> 0271 ɱ
1DAD	ᶑ	MODIFIER LETTER SMALL TURNED M WITH LONG LEG
		≈ <super> 0270 ɯ
1DAE	ᶑ	MODIFIER LETTER SMALL N WITH LEFT HOOK
		≈ <super> 0272 ɱ

## 1DAF

## Phonetic Extensions Supplement

## 1DBF

1DAF	ɳ	MODIFIER LETTER SMALL N WITH RETROFLEX HOOK ≈ <super> 0273 ɳ
1DB0	ᵸ	MODIFIER LETTER SMALL CAPITAL N • not for use in UPA → 1D3A ᵸ modifier letter capital n ≈ <super> 0274 ᵸ
1DB1	ɵ	MODIFIER LETTER SMALL BARRED O ≈ <super> 0275 ɵ
1DB2	ϕ	MODIFIER LETTER SMALL PHI ≈ <super> 0278 ϕ
1DB3	§	MODIFIER LETTER SMALL S WITH HOOK ≈ <super> 0282 §
1DB4	ʃ	MODIFIER LETTER SMALL ESH ≈ <super> 0283 ʃ
1DB5	ᵝ	MODIFIER LETTER SMALL T WITH PALATAL HOOK ≈ <super> 01AB ᵝ
1DB6	ʊ̃	MODIFIER LETTER SMALL U BAR ≈ <super> 0289 ʊ̃
1DB7	υ̣	MODIFIER LETTER SMALL UPSILON ≈ <super> 028A υ̣
1DB8	ᵘ	MODIFIER LETTER SMALL CAPITAL U • not for use in UPA → 1D41 ᵘ modifier letter capital u ≈ <super> 1D1C ᵘ
1DB9	ʋ	MODIFIER LETTER SMALL V WITH HOOK ≈ <super> 028B ʋ
1DBA	ʌ	MODIFIER LETTER SMALL TURNED V ≈ <super> 028C ʌ
1DBB	z	MODIFIER LETTER SMALL Z ≈ <super> 007A z
1DBC	ẓ	MODIFIER LETTER SMALL Z WITH RETROFLEX HOOK ≈ <super> 0290 ẓ
1DBD	z̤	MODIFIER LETTER SMALL Z WITH CURL ≈ <super> 0291 z̤
1DBE	ʒ	MODIFIER LETTER SMALL EZH ≈ <super> 0292 ʒ
1DBF	θ	MODIFIER LETTER SMALL THETA ≈ <super> 03B8 θ

	1DC	1DD	1DE	1DF
0	 1DC0	 1DD0	 1DE0	
1	 1DC1	 1DD1	 1DE1	
2	 1DC2	 1DD2	 1DE2	
3	 1DC3	 1DD3	 1DE3	
4	 1DC4	 1DD4	 1DE4	
5	 1DC5	 1DD5	 1DE5	
6	 1DC6	 1DD6	 1DE6	
7	 1DC7	 1DD7		
8	 1DC8	 1DD8		
9	 1DC9	 1DD9		
A	 1DCA	 1DDA		
B	 1DCB	 1ddb		
C	 1DCC	 1DDC		 1DFC
D	 1DCD	 1DDD		 1DFD
E	 1DCE	 1DDE		 1DFE
F	 1DCF	 1DDF		 1DFF

**Used for Ancient Greek**

*These are used as editorial signs for Ancient Greek to indicate scribal deletion of erroneous accent marks.*

- 1DC0 ◌̣ COMBINING DOTTED GRAVE ACCENT  
→ 1FED ◌̣ greek dialytika and varia
- 1DC1 ◌̣ COMBINING DOTTED ACUTE ACCENT  
→ 0344 ◌̣ combining greek dialytika tonos  
→ 1FEE ◌̣ greek dialytika and oxia

**Miscellaneous marks**

- 1DC2 ◌̣ COMBINING SNAKE BELOW  
1DC3 ◌̣ COMBINING SUSPENSION MARK  
• Glagolitic  
→ 0306 ◌̣ combining breve

**Contour tone marks**

- 1DC4 ◌̣ COMBINING MACRON-ACUTE  
1DC5 ◌̣ COMBINING GRAVE-MACRON  
1DC6 ◌̣ COMBINING MACRON-GRAVE  
1DC7 ◌̣ COMBINING ACUTE-MACRON  
1DC8 ◌̣ COMBINING GRAVE-ACUTE-GRAVE  
1DC9 ◌̣ COMBINING ACUTE-GRAVE-ACUTE

**Miscellaneous mark**

- 1DCA ◌̣ COMBINING LATIN SMALL LETTER R BELOW

**Contour tone marks**

- 1DCB ◌̣ COMBINING BREVE-MACRON  
• Lithuanian dialectology
- 1DCC ◌̣ COMBINING MACRON-BREVE  
• Lithuanian dialectology

**Double diacritic**

- 1DCD ◌̣ COMBINING DOUBLE CIRCUMFLEX ABOVE

**Medievalist additions**

- 1DCE ◌̣ COMBINING OGONEK ABOVE  
1DCF ◌̣ COMBINING ZIGZAG BELOW  
1DD0 ◌̣ COMBINING IS BELOW  
1DD1 ◌̣ COMBINING UR ABOVE  
1DD2 ◌̣ COMBINING US ABOVE

**Medieval superscript letter diacritics**

- 1DD3 ◌̣ COMBINING LATIN SMALL LETTER FLATTENED OPEN A ABOVE  
1DD4 ◌̣ COMBINING LATIN SMALL LETTER AE  
1DD5 ◌̣ COMBINING LATIN SMALL LETTER AO  
1DD6 ◌̣ COMBINING LATIN SMALL LETTER AV  
1DD7 ◌̣ COMBINING LATIN SMALL LETTER C CEDILLA  
1DD8 ◌̣ COMBINING LATIN SMALL LETTER INSULAR D  
1DD9 ◌̣ COMBINING LATIN SMALL LETTER ETH  
1DDA ◌̣ COMBINING LATIN SMALL LETTER G  
1ddb ◌̣ COMBINING LATIN LETTER SMALL CAPITAL G  
1DDC ◌̣ COMBINING LATIN SMALL LETTER K  
1DDD ◌̣ COMBINING LATIN SMALL LETTER L  
1DDE ◌̣ COMBINING LATIN LETTER SMALL CAPITAL L  
1DDF ◌̣ COMBINING LATIN LETTER SMALL CAPITAL M  
1DE0 ◌̣ COMBINING LATIN SMALL LETTER N  
1DE1 ◌̣ COMBINING LATIN LETTER SMALL CAPITAL N  
1DE2 ◌̣ COMBINING LATIN LETTER SMALL CAPITAL R  
1DE3 ◌̣ COMBINING LATIN SMALL LETTER R ROTUNDA  
1DE4 ◌̣ COMBINING LATIN SMALL LETTER S

- 1DE5 ◌̣ COMBINING LATIN SMALL LETTER LONG S  
1DE6 ◌̣ COMBINING LATIN SMALL LETTER Z

**Additional mark for UPA**

- 1DFC ◌̣ COMBINING DOUBLE INVERTED BREVE BELOW

**Miscellaneous mark**

- 1DFD ◌̣ COMBINING ALMOST EQUAL TO BELOW

**Additional marks for UPA**

- 1DFE ◌̣ COMBINING LEFT ARROWHEAD ABOVE  
1DFF ◌̣ COMBINING RIGHT ARROWHEAD AND DOWN ARROWHEAD BELOW

	1E0	1E1	1E2	1E3	1E4	1E5	1E6	1E7	1E8	1E9	1EA	1EB	1EC	1ED	1EE	1EF
0	À 1E00	Ā 1E10	Ġ 1E20	Ĳ 1E30	Ĭ 1E40	Ō 1E50	Š 1E60	Ŧ 1E70	Ẁ 1E80	Ẃ 1E90	Ȧ 1EA0	Ǻ 1EB0	Ẽ 1EC0	Õ 1ED0	Ȯ 1EE0	Ư 1EF0
1	à 1E01	ā 1E11	ġ 1E21	ķ 1E31	ĭ 1E41	ō 1E51	š 1E61	ţ 1E71	ẁ 1E81	ẃ 1E91	ȧ 1EA1	ǻ 1EB1	ẽ 1EC1	õ 1ED1	ȯ 1EE1	ư 1EF1
2	Ḃ 1E02	Ḅ 1E12	Ḥ 1E22	Ḭ 1E32	Ḝ 1E42	Ḑ 1E52	Ṣ 1E62	Ṫ 1E72	Ẃ 1E82	Ẅ 1E92	Ȧ 1EA2	Ǻ 1EB2	Ẽ 1EC2	Õ 1ED2	Ȯ 1EE2	Ỳ 1EF2
3	ḃ 1E03	ḅ 1E13	ḥ 1E23	ḭ 1E33	ḥ 1E43	ó 1E53	ṣ 1E63	ṽ 1E73	ẃ 1E83	ẅ 1E93	ȧ 1EA3	ǻ 1EB3	ẽ 1EC3	õ 1ED3	ȯ 1EE3	ỳ 1EF3
4	Ḭ 1E04	Ẽ 1E14	Ḥ 1E24	Ḭ 1E34	Ḕ 1E44	Ṗ 1E54	Ṣ 1E64	Ṫ 1E74	Ẅ 1E84	Ẇ 1E94	Ǻ 1EA4	Ǻ 1EB4	Ẽ 1EC4	Õ 1ED4	Ṫ 1EE4	Ỳ 1EF4
5	ḭ 1E05	ẽ 1E15	ḥ 1E25	ḭ 1E35	ḥ 1E45	ṑ 1E55	ṣ 1E65	ṽ 1E75	ẅ 1E85	ẇ 1E95	ǻ 1EA5	ǻ 1EB5	ẽ 1EC5	ó 1ED5	ṽ 1EE5	ỳ 1EF5
6	Ḭ 1E06	Ẽ 1E16	Ḥ 1E26	Ḭ 1E36	Ḕ 1E46	Ṗ 1E56	Ṣ 1E66	Ṫ 1E76	Ẅ 1E86	Ẇ 1E96	Ǻ 1EA6	Ǻ 1EB6	Ẽ 1EC6	Õ 1ED6	Ṫ 1EE6	Ỳ 1EF6
7	ḭ 1E07	ẽ 1E17	ḥ 1E27	ḭ 1E37	ḥ 1E47	ṑ 1E57	ṣ 1E67	ṽ 1E77	ẅ 1E87	ẇ 1E97	ǻ 1EA7	ǻ 1EB7	ẽ 1EC7	ó 1ED7	ṽ 1EE7	ỳ 1EF7
8	Ć 1E08	Ė 1E18	Ḥ 1E28	Ḭ 1E38	Ḕ 1E48	Ṗ 1E58	Ṣ 1E68	Ṫ 1E78	Ẅ 1E88	Ẇ 1E98	Ǻ 1EA8	Ǻ 1EB8	Ẽ 1EC8	Õ 1ED8	Ṫ 1EE8	Ỳ 1EF8
9	ć 1E09	ė 1E19	ḥ 1E29	ḭ 1E39	ḥ 1E49	ṑ 1E59	ṣ 1E69	ṽ 1E79	ẅ 1E89	ẇ 1E99	ǻ 1EA9	ǻ 1EB9	ẽ 1EC9	ó 1ED9	ṽ 1EE9	ỳ 1EF9
A	Ḭ 1E0A	Ẽ 1E1A	Ḥ 1E2A	Ḭ 1E3A	Ḕ 1E4A	Ṗ 1E5A	Ṣ 1E6A	Ṫ 1E7A	Ẅ 1E8A	Ẇ 1E9A	Ǻ 1EA	Ǻ 1EB	Ẽ 1EC	Õ 1ED	Ṫ 1EE	Ỳ 1EF
B	ḭ 1E0B	ẽ 1E1B	ḥ 1E2B	ḭ 1E3B	ḥ 1E4B	ṑ 1E5B	ṣ 1E6B	ṽ 1E7B	ẅ 1E8B	ẇ 1E9B	ǻ 1EA	ǻ 1EB	ẽ 1EC	ó 1ED	ṽ 1EE	ỳ 1EF
C	Ḭ 1E0C	Ẽ 1E1C	Ḥ 1E2C	Ḭ 1E3C	Ḕ 1E4C	Ṗ 1E5C	Ṣ 1E6C	Ṫ 1E7C	Ẅ 1E8C	Ẇ 1E9C	Ǻ 1EA	Ǻ 1EB	Ẽ 1EC	Õ 1ED	Ṫ 1EE	Ỳ 1EF
D	ḭ 1E0D	ẽ 1E1D	ḥ 1E2D	ḭ 1E3D	ḥ 1E4D	ṑ 1E5D	ṣ 1E6D	ṽ 1E7D	ẅ 1E8D	ẇ 1E9D	ǻ 1EA	ǻ 1EB	ẽ 1EC	ó 1ED	ṽ 1EE	ỳ 1EF
E	Ḭ 1E0E	Ẽ 1E1E	Ḥ 1E2E	Ḭ 1E3E	Ḕ 1E4E	Ṗ 1E5E	Ṣ 1E6E	Ṫ 1E7E	Ẅ 1E8E	Ẇ 1E9E	Ǻ 1EA	Ǻ 1EB	Ẽ 1EC	Õ 1ED	Ṫ 1EE	Ỳ 1EF
F	ḭ 1E0F	ẽ 1E1F	ḥ 1E2F	ḭ 1E3F	ḥ 1E4F	ṑ 1E5F	ṣ 1E6F	ṽ 1E7F	ẅ 1E8F	ẇ 1E9F	ǻ 1EA	ǻ 1EB	ẽ 1EC	ó 1ED	ṽ 1EE	ỳ 1EF



1E00

## Latin Extended Additional

1E2D

*In this block the names "WITH LINE BELOW" refer to a macron below the letter.*

**Latin general use extensions**

1E00	À	LATIN CAPITAL LETTER A WITH RING BELOW ≡ 0041 A 0325 ◌̣
1E01	á	LATIN SMALL LETTER A WITH RING BELOW ≡ 0061 a 0325 ◌̣
1E02	Ā	LATIN CAPITAL LETTER B WITH DOT ABOVE ≡ 0042 B 0307 ◌̇
1E03	Ḃ	LATIN SMALL LETTER B WITH DOT ABOVE • Irish Gaelic (old orthography) ≡ 0062 b 0307 ◌̇
1E04	Ḅ	LATIN CAPITAL LETTER B WITH DOT BELOW ≡ 0042 B 0323 ◌̣
1E05	ḅ	LATIN SMALL LETTER B WITH DOT BELOW ≡ 0062 b 0323 ◌̣
1E06	Ḇ	LATIN CAPITAL LETTER B WITH LINE BELOW ≡ 0042 B 0331 ◌̵
1E07	ḇ	LATIN SMALL LETTER B WITH LINE BELOW ≡ 0062 b 0331 ◌̵
1E08	Ç	LATIN CAPITAL LETTER C WITH CEDILLA AND ACUTE ≡ 00C7 Ç 0301 ◌̣
1E09	ç	LATIN SMALL LETTER C WITH CEDILLA AND ACUTE ≡ 00E7 ç 0301 ◌̣
1E0A	Ď	LATIN CAPITAL LETTER D WITH DOT ABOVE ≡ 0044 D 0307 ◌̇
1E0B	ḏ	LATIN SMALL LETTER D WITH DOT ABOVE • Irish Gaelic (old orthography) ≡ 0064 d 0307 ◌̇
1E0C	Ḍ	LATIN CAPITAL LETTER D WITH DOT BELOW ≡ 0044 D 0323 ◌̣
1E0D	ḍ	LATIN SMALL LETTER D WITH DOT BELOW • Indic transliteration ≡ 0064 d 0323 ◌̣
1E0E	Ḑ	LATIN CAPITAL LETTER D WITH LINE BELOW ≡ 0044 D 0331 ◌̵
1E0F	ḑ	LATIN SMALL LETTER D WITH LINE BELOW ≡ 0064 d 0331 ◌̵
1E10	Ḓ	LATIN CAPITAL LETTER D WITH CEDILLA ≡ 0044 D 0327 ◌̣
1E11	ḓ	LATIN SMALL LETTER D WITH CEDILLA • Livonian ≡ 0064 d 0327 ◌̣
1E12	Ḕ	LATIN CAPITAL LETTER D WITH CIRCUMFLEX BELOW ≡ 0044 D 032D ◌̣
1E13	ḕ	LATIN SMALL LETTER D WITH CIRCUMFLEX BELOW ≡ 0064 d 032D ◌̣
1E14	Ē	LATIN CAPITAL LETTER E WITH MACRON AND GRAVE ≡ 0112 Ē 0300 ◌̇
1E15	ē	LATIN SMALL LETTER E WITH MACRON AND GRAVE ≡ 0113 ē 0300 ◌̇

1E16	Ê	LATIN CAPITAL LETTER E WITH MACRON AND ACUTE ≡ 0112 Ê 0301 ◌̇
1E17	é	LATIN SMALL LETTER E WITH MACRON AND ACUTE ≡ 0113 é 0301 ◌̇
1E18	Ẹ	LATIN CAPITAL LETTER E WITH CIRCUMFLEX BELOW ≡ 0045 E 032D ◌̣
1E19	ẹ	LATIN SMALL LETTER E WITH CIRCUMFLEX BELOW ≡ 0065 e 032D ◌̣
1E1A	Ẻ	LATIN CAPITAL LETTER E WITH TILDE BELOW ≡ 0045 E 0330 ◌̣
1E1B	ẹ	LATIN SMALL LETTER E WITH TILDE BELOW ≡ 0065 e 0330 ◌̣
1E1C	Ė	LATIN CAPITAL LETTER E WITH CEDILLA AND BREVE ≡ 0228 Ė 0306 ◌̣
1E1D	ė	LATIN SMALL LETTER E WITH CEDILLA AND BREVE ≡ 0229 ė 0306 ◌̣
1E1E	Ħ	LATIN CAPITAL LETTER F WITH DOT ABOVE ≡ 0046 F 0307 ◌̇
1E1F	ḥ	LATIN SMALL LETTER F WITH DOT ABOVE • Irish Gaelic (old orthography) ≡ 0066 f 0307 ◌̇
1E20	Ĝ	LATIN CAPITAL LETTER G WITH MACRON ≡ 0047 G 0304 ◌̇
1E21	ḡ	LATIN SMALL LETTER G WITH MACRON ≡ 0067 g 0304 ◌̇
1E22	Ĥ	LATIN CAPITAL LETTER H WITH DOT ABOVE ≡ 0048 H 0307 ◌̇
1E23	ḥ	LATIN SMALL LETTER H WITH DOT ABOVE ≡ 0068 h 0307 ◌̇
1E24	Ḑ	LATIN CAPITAL LETTER H WITH DOT BELOW ≡ 0048 H 0323 ◌̣
1E25	ḑ	LATIN SMALL LETTER H WITH DOT BELOW • Indic transliteration ≡ 0068 h 0323 ◌̣
1E26	Ḧ	LATIN CAPITAL LETTER H WITH DIAERESIS ≡ 0048 H 0308 ◌̈
1E27	ḧ	LATIN SMALL LETTER H WITH DIAERESIS ≡ 0068 h 0308 ◌̈
1E28	Ḩ	LATIN CAPITAL LETTER H WITH CEDILLA ≡ 0048 H 0327 ◌̣
1E29	ḩ	LATIN SMALL LETTER H WITH CEDILLA ≡ 0068 h 0327 ◌̣
1E2A	Ḫ	LATIN CAPITAL LETTER H WITH BREVE BELOW ≡ 0048 H 032E ◌̣
1E2B	ḩ	LATIN SMALL LETTER H WITH BREVE BELOW • Semitic transliteration ≡ 0068 h 032E ◌̣
1E2C	İ	LATIN CAPITAL LETTER I WITH TILDE BELOW ≡ 0049 I 0330 ◌̣
1E2D	ı	LATIN SMALL LETTER I WITH TILDE BELOW ≡ 0069 i 0330 ◌̣

1E2E	Ĭ	LATIN CAPITAL LETTER I WITH DIAERESIS AND ACUTE ≡ 00CF Ĭ 0301 ǫ	1E44	Ñ	LATIN CAPITAL LETTER N WITH DOT ABOVE ≡ 004E Ñ 0307 ǫ
1E2F	ĩ	LATIN SMALL LETTER I WITH DIAERESIS AND ACUTE ≡ 00EF ĩ 0301 ǫ	1E45	ñ	LATIN SMALL LETTER N WITH DOT ABOVE • Indic transliteration ≡ 006E ñ 0307 ǫ
1E30	Ķ	LATIN CAPITAL LETTER K WITH ACUTE ≡ 004B Ķ 0301 ǫ	1E46	Ṅ	LATIN CAPITAL LETTER N WITH DOT BELOW ≡ 004E Ṅ 0323 ǫ
1E31	ķ	LATIN SMALL LETTER K WITH ACUTE • Macedonian transliteration ≡ 006B ķ 0301 ǫ	1E47	ṇ	LATIN SMALL LETTER N WITH DOT BELOW • Indic transliteration ≡ 006E ṇ 0323 ǫ
1E32	Ḳ	LATIN CAPITAL LETTER K WITH DOT BELOW ≡ 004B Ḳ 0323 ǫ	1E48	Ṛ	LATIN CAPITAL LETTER R WITH LINE BELOW ≡ 004E Ṛ 0331 ǫ
1E33	ḳ	LATIN SMALL LETTER K WITH DOT BELOW ≡ 006B ḳ 0323 ǫ	1E49	ṛ	LATIN SMALL LETTER R WITH LINE BELOW • Indic transliteration ≡ 006E ṛ 0331 ǫ
1E34	Ḵ	LATIN CAPITAL LETTER K WITH LINE BELOW ≡ 004B Ḵ 0331 ǫ	1E4A	Ṅ	LATIN CAPITAL LETTER N WITH CIRCUMFLEX BELOW ≡ 004E Ṅ 032D ǫ
1E35	ḵ	LATIN SMALL LETTER K WITH LINE BELOW ≡ 006B ḵ 0331 ǫ	1E4B	ṇ	LATIN SMALL LETTER N WITH CIRCUMFLEX BELOW ≡ 006E ṇ 032D ǫ
1E36	Ḷ	LATIN CAPITAL LETTER L WITH DOT BELOW ≡ 004C Ḷ 0323 ǫ	1E4C	Õ	LATIN CAPITAL LETTER O WITH TILDE AND ACUTE ≡ 00D5 Õ 0301 ǫ
1E37	ĺ	LATIN SMALL LETTER L WITH DOT BELOW • Indic transliteration ≡ 006C ĺ 0323 ǫ • see ISO 15919 on the use of dot below versus ring below in Indic transliteration → 0325 ǫ combining ring below	1E4D	ó	LATIN SMALL LETTER O WITH TILDE AND ACUTE ≡ 00F5 ó 0301 ǫ
1E38	Ḹ	LATIN CAPITAL LETTER L WITH DOT BELOW AND MACRON ≡ 1E36 Ḹ 0304 ǫ	1E4E	Ö	LATIN CAPITAL LETTER O WITH TILDE AND DIAERESIS ≡ 00D5 Ö 0308 ǫ
1E39	ļ	LATIN SMALL LETTER L WITH DOT BELOW AND MACRON • Indic transliteration ≡ 1E37 ļ 0304 ǫ	1E4F	ö	LATIN SMALL LETTER O WITH TILDE AND DIAERESIS ≡ 00F5 ö 0308 ǫ
1E3A	ḹ	LATIN CAPITAL LETTER L WITH LINE BELOW ≡ 004C ḹ 0331 ǫ	1E50	Ō	LATIN CAPITAL LETTER O WITH MACRON AND GRAVE ≡ 014C Ō 0300 ǫ
1E3B	ĺ	LATIN SMALL LETTER L WITH LINE BELOW • Indic transliteration ≡ 006C ĺ 0331 ǫ	1E51	ò	LATIN SMALL LETTER O WITH MACRON AND GRAVE ≡ 014D ò 0300 ǫ
1E3C	Ḻ	LATIN CAPITAL LETTER L WITH CIRCUMFLEX BELOW ≡ 004C Ḻ 032D ǫ	1E52	Ŏ	LATIN CAPITAL LETTER O WITH MACRON AND ACUTE ≡ 014C Ŏ 0301 ǫ
1E3D	ḻ	LATIN SMALL LETTER L WITH CIRCUMFLEX BELOW ≡ 006C ĺ 032D ǫ	1E53	ó	LATIN SMALL LETTER O WITH MACRON AND ACUTE ≡ 014D ó 0301 ǫ
1E3E	Ṁ	LATIN CAPITAL LETTER M WITH ACUTE ≡ 004D Ṁ 0301 ǫ	1E54	Ṗ	LATIN CAPITAL LETTER P WITH ACUTE ≡ 0050 Ṗ 0301 ǫ
1E3F	ṁ	LATIN SMALL LETTER M WITH ACUTE ≡ 006D ṁ 0301 ǫ	1E55	ṗ	LATIN SMALL LETTER P WITH ACUTE ≡ 0070 ṗ 0301 ǫ
1E40	Ṃ	LATIN CAPITAL LETTER M WITH DOT ABOVE ≡ 004D Ṃ 0307 ǫ	1E56	Ṙ	LATIN CAPITAL LETTER P WITH DOT ABOVE ≡ 0050 Ṙ 0307 ǫ
1E41	ṃ	LATIN SMALL LETTER M WITH DOT ABOVE • Irish Gaelic (old orthography) ≡ 006D ṃ 0307 ǫ	1E57	ṙ	LATIN SMALL LETTER P WITH DOT ABOVE • Irish Gaelic (old orthography) ≡ 0070 ṙ 0307 ǫ
1E42	Ṅ	LATIN CAPITAL LETTER M WITH DOT BELOW ≡ 004D Ṅ 0323 ǫ	1E58	Ṛ	LATIN CAPITAL LETTER R WITH DOT ABOVE ≡ 0052 Ṛ 0307 ǫ
1E43	ṅ	LATIN SMALL LETTER M WITH DOT BELOW • Indic transliteration ≡ 006D ṅ 0323 ǫ	1E59	ṛ	LATIN SMALL LETTER R WITH DOT ABOVE ≡ 0072 ṛ 0307 ǫ

## 1E5A

## Latin Extended Additional

## 1E84

1E5A	Ŕ	LATIN CAPITAL LETTER R WITH DOT BELOW ≡ 0052 R 0323 ◌̣	1E6E	Ṭ	LATIN CAPITAL LETTER T WITH LINE BELOW ≡ 0054 T 0331 ◌̣
1E5B	Ṛ	LATIN SMALL LETTER R WITH DOT BELOW • Indic transliteration ≡ 0072 r 0323 ◌̣ • see ISO 15919 on the use of dot below versus ring below in Indic transliteration → 0325 ◌̣ combining ring below	1E6F	ṭ	LATIN SMALL LETTER T WITH LINE BELOW • Semitic transliteration ≡ 0074 t 0331 ◌̣
1E5C	Ṝ	LATIN CAPITAL LETTER R WITH DOT BELOW AND MACRON ≡ 1E5A Ŕ 0304 ◌̄	1E70	Ṭ̄	LATIN CAPITAL LETTER T WITH CIRCUMFLEX BELOW ≡ 0054 T 032D ◌̣
1E5D	Ṛ̇	LATIN SMALL LETTER R WITH DOT BELOW AND MACRON • Indic transliteration ≡ 1E5B Ṛ 0304 ◌̄	1E71	ṭ̄	LATIN SMALL LETTER T WITH CIRCUMFLEX BELOW ≡ 0074 t 032D ◌̣
1E5E	Ṙ	LATIN CAPITAL LETTER R WITH LINE BELOW ≡ 0052 R 0331 ◌̣	1E72	Ṫ	LATIN CAPITAL LETTER U WITH DIAERESIS BELOW ≡ 0055 U 0324 ◌̣
1E5F	ṙ	LATIN SMALL LETTER R WITH LINE BELOW • Indic transliteration ≡ 0072 r 0331 ◌̣	1E73	ṯ	LATIN SMALL LETTER U WITH DIAERESIS BELOW ≡ 0075 u 0324 ◌̣
1E60	Ŝ	LATIN CAPITAL LETTER S WITH DOT ABOVE ≡ 0053 S 0307 ◌̣	1E74	Ṹ	LATIN CAPITAL LETTER U WITH TILDE BELOW ≡ 0055 U 0330 ◌̣
1E61	ŝ	LATIN SMALL LETTER S WITH DOT ABOVE • Irish Gaelic (old orthography) ≡ 0073 s 0307 ◌̣	1E75	ṹ	LATIN SMALL LETTER U WITH TILDE BELOW ≡ 0075 u 0330 ◌̣
1E62	Ŝ̇	LATIN CAPITAL LETTER S WITH DOT BELOW ≡ 0053 S 0323 ◌̣	1E76	Ṹ̄	LATIN CAPITAL LETTER U WITH CIRCUMFLEX BELOW ≡ 0055 U 032D ◌̣
1E63	ŝ̇	LATIN SMALL LETTER S WITH DOT BELOW • Indic transliteration ≡ 0073 s 0323 ◌̣	1E77	ṹ̄	LATIN SMALL LETTER U WITH CIRCUMFLEX BELOW ≡ 0075 u 032D ◌̣
1E64	Ŝ̂	LATIN CAPITAL LETTER S WITH ACUTE AND DOT ABOVE ≡ 015A Š 0307 ◌̣	1E78	Ŭ	LATIN CAPITAL LETTER U WITH TILDE AND ACUTE ≡ 0168 Ũ 0301 ◌̣
1E65	ŝ̂	LATIN SMALL LETTER S WITH ACUTE AND DOT ABOVE ≡ 015B š 0307 ◌̣	1E79	ű	LATIN SMALL LETTER U WITH TILDE AND ACUTE ≡ 0169 ũ 0301 ◌̣
1E66	Ŝ̈	LATIN CAPITAL LETTER S WITH CARON AND DOT ABOVE ≡ 0160 Š̈ 0307 ◌̣	1E7A	Ū̄	LATIN CAPITAL LETTER U WITH MACRON AND DIAERESIS ≡ 016A Ū̄ 0308 ◌̣
1E67	ŝ̈	LATIN SMALL LETTER S WITH CARON AND DOT ABOVE ≡ 0161 š̈ 0307 ◌̣	1E7B	ű̄	LATIN SMALL LETTER U WITH MACRON AND DIAERESIS ≡ 016B ũ̄ 0308 ◌̣
1E68	Ŝ̇̂	LATIN CAPITAL LETTER S WITH DOT BELOW AND DOT ABOVE ≡ 1E62 Ŝ̇ 0307 ◌̣	1E7C	Ṽ	LATIN CAPITAL LETTER V WITH TILDE ≡ 0056 V 0303 ◌̣
1E69	ŝ̇̂	LATIN SMALL LETTER S WITH DOT BELOW AND DOT ABOVE ≡ 1E63 ŝ̇ 0307 ◌̣	1E7D	ṽ	LATIN SMALL LETTER V WITH TILDE ≡ 0076 v 0303 ◌̣
1E6A	Ṫ̇	LATIN CAPITAL LETTER T WITH DOT ABOVE ≡ 0054 T 0307 ◌̣	1E7E	Ṽ̇	LATIN CAPITAL LETTER V WITH DOT BELOW ≡ 0056 V 0323 ◌̣
1E6B	ṭ̇	LATIN SMALL LETTER T WITH DOT ABOVE • Irish Gaelic (old orthography) ≡ 0074 t 0307 ◌̣	1E7F	ṽ̇	LATIN SMALL LETTER V WITH DOT BELOW ≡ 0076 v 0323 ◌̣
1E6C	Ṭ̇	LATIN CAPITAL LETTER T WITH DOT BELOW ≡ 0054 T 0323 ◌̣	1E80	Ẁ	LATIN CAPITAL LETTER W WITH GRAVE ≡ 0057 W 0300 ◌̣
1E6D	ṭ̇	LATIN SMALL LETTER T WITH DOT BELOW • Indic transliteration ≡ 0074 t 0323 ◌̣	1E81	ẁ	LATIN SMALL LETTER W WITH GRAVE • Welsh ≡ 0077 w 0300 ◌̣
			1E82	Ẃ	LATIN CAPITAL LETTER W WITH ACUTE ≡ 0057 W 0301 ◌̣
			1E83	ẃ	LATIN SMALL LETTER W WITH ACUTE • Welsh ≡ 0077 w 0301 ◌̣
			1E84	Ẅ	LATIN CAPITAL LETTER W WITH DIAERESIS ≡ 0057 W 0308 ◌̣

1E85	ŵ	LATIN SMALL LETTER W WITH DIAERESIS • Welsh ≡ 0077 w 0308 ̊
1E86	Ẁ	LATIN CAPITAL LETTER W WITH DOT ABOVE ≡ 0057 W 0307 ̇
1E87	ẁ	LATIN SMALL LETTER W WITH DOT ABOVE ≡ 0077 w 0307 ̇
1E88	Ẃ	LATIN CAPITAL LETTER W WITH DOT BELOW ≡ 0057 W 0323 ̣
1E89	ẃ	LATIN SMALL LETTER W WITH DOT BELOW ≡ 0077 w 0323 ̣
1E8A	Ẅ	LATIN CAPITAL LETTER X WITH DOT ABOVE ≡ 0058 X 0307 ̇
1E8B	ẅ	LATIN SMALL LETTER X WITH DOT ABOVE ≡ 0078 x 0307 ̇
1E8C	Ẇ	LATIN CAPITAL LETTER X WITH DIAERESIS ≡ 0058 X 0308 ̊
1E8D	ẇ	LATIN SMALL LETTER X WITH DIAERESIS ≡ 0078 x 0308 ̊
1E8E	Ỳ	LATIN CAPITAL LETTER Y WITH DOT ABOVE ≡ 0059 Y 0307 ̇
1E8F	ỳ	LATIN SMALL LETTER Y WITH DOT ABOVE ≡ 0079 y 0307 ̇
1E90	Ẑ	LATIN CAPITAL LETTER Z WITH CIRCUMFLEX ≡ 005A Z 0302 ̂
1E91	ẑ	LATIN SMALL LETTER Z WITH CIRCUMFLEX ≡ 007A z 0302 ̂
1E92	Ẓ	LATIN CAPITAL LETTER Z WITH DOT BELOW ≡ 005A Z 0323 ̣
1E93	ẓ	LATIN SMALL LETTER Z WITH DOT BELOW • Indic transliteration ≡ 007A z 0323 ̣
1E94	Ẕ	LATIN CAPITAL LETTER Z WITH LINE BELOW ≡ 005A Z 0331 ̥
1E95	ẕ	LATIN SMALL LETTER Z WITH LINE BELOW • Semitic transliteration ≡ 007A z 0331 ̥
1E96	ḥ	LATIN SMALL LETTER H WITH LINE BELOW • Semitic transliteration ≡ 0068 h 0331 ̥
1E97	ï	LATIN SMALL LETTER T WITH DIAERESIS ≡ 0074 t 0308 ̊
1E98	ẘ	LATIN SMALL LETTER W WITH RING ABOVE ≡ 0077 w 030A ̈́
1E99	ẙ	LATIN SMALL LETTER Y WITH RING ABOVE ≡ 0079 y 030A ̈́
1E9A	ǎ	LATIN SMALL LETTER A WITH RIGHT HALF RING ≈ 0061 a 02BE ˆ
1E9B	í	LATIN SMALL LETTER LONG S WITH DOT ABOVE • in current use in Gaelic types (as glyph variant of 1E61 š) ≡ 017F f 0307 ̇

**Medievalist additions**

1E9C	ƒ	LATIN SMALL LETTER LONG S WITH DIAGONAL STROKE • Sorbian
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1E9D	ſ	LATIN SMALL LETTER LONG S WITH HIGH STROKE
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**Addition for German typography**

1E9E	ß	LATIN CAPITAL LETTER SHARP S • lowercase is 00DF ß → 00DF ß latin small letter sharp s
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**Medievalist addition**

1E9F	δ	LATIN SMALL LETTER DELTA
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**Latin extensions for Vietnamese**

1EA0	À	LATIN CAPITAL LETTER A WITH DOT BELOW ≡ 0041 A 0323 ̣
1EA1	à	LATIN SMALL LETTER A WITH DOT BELOW ≡ 0061 a 0323 ̣
1EA2	Ả	LATIN CAPITAL LETTER A WITH HOOK ABOVE ≡ 0041 A 0309 ̉
1EA3	ả	LATIN SMALL LETTER A WITH HOOK ABOVE ≡ 0061 a 0309 ̉
1EA4	Ã	LATIN CAPITAL LETTER A WITH CIRCUMFLEX AND ACUTE ≡ 00C2 Â 0301 ́
1EA5	ã	LATIN SMALL LETTER A WITH CIRCUMFLEX AND ACUTE ≡ 00E2 â 0301 ́
1EA6	Ä	LATIN CAPITAL LETTER A WITH CIRCUMFLEX AND GRAVE ≡ 00C2 Â 0300 ̀
1EA7	ä	LATIN SMALL LETTER A WITH CIRCUMFLEX AND GRAVE ≡ 00E2 â 0300 ̀
1EA8	Å	LATIN CAPITAL LETTER A WITH CIRCUMFLEX AND HOOK ABOVE ≡ 00C2 Â 0309 ̉
1EA9	å	LATIN SMALL LETTER A WITH CIRCUMFLEX AND HOOK ABOVE ≡ 00E2 â 0309 ̉
1EAA	Ă	LATIN CAPITAL LETTER A WITH CIRCUMFLEX AND TILDE ≡ 00C2 Â 0303 ̃
1EAB	ă	LATIN SMALL LETTER A WITH CIRCUMFLEX AND TILDE ≡ 00E2 â 0303 ̃
1EAC	Â	LATIN CAPITAL LETTER A WITH CIRCUMFLEX AND DOT BELOW ≡ 1EA0 À 0302 ̣
1EAD	â	LATIN SMALL LETTER A WITH CIRCUMFLEX AND DOT BELOW ≡ 1EA1 à 0302 ̣
1EAE	Ǻ	LATIN CAPITAL LETTER A WITH BREVE AND ACUTE ≡ 0102 Å 0301 ́
1EAF	ǻ	LATIN SMALL LETTER A WITH BREVE AND ACUTE ≡ 0103 ă 0301 ́
1EB0	Ǽ	LATIN CAPITAL LETTER A WITH BREVE AND GRAVE ≡ 0102 Å 0300 ̀
1EB1	ǽ	LATIN SMALL LETTER A WITH BREVE AND GRAVE ≡ 0103 ă 0300 ̀

## 1EB2

## Latin Extended Additional

## 1EDD

1EB2	Ǻ	LATIN CAPITAL LETTER A WITH BREVE AND HOOK ABOVE ≡ 0102 Ǻ 0309 Ǿ	1EC8	İ	LATIN CAPITAL LETTER I WITH HOOK ABOVE ≡ 0049 İ 0309 Ǿ
1EB3	ǻ	LATIN SMALL LETTER A WITH BREVE AND HOOK ABOVE ≡ 0103 ǻ 0309 Ǿ	1EC9	ı	LATIN SMALL LETTER I WITH HOOK ABOVE ≡ 0069 ı 0309 Ǿ
1EB4	Ǽ	LATIN CAPITAL LETTER A WITH BREVE AND TILDE ≡ 0102 Ǽ 0303 Ǿ	1ECA	Ȁ	LATIN CAPITAL LETTER I WITH DOT BELOW ≡ 0049 İ 0323 Ǿ
1EB5	ǽ	LATIN SMALL LETTER A WITH BREVE AND TILDE ≡ 0103 ǽ 0303 Ǿ	1ECB	ȁ	LATIN SMALL LETTER I WITH DOT BELOW ≡ 0069 ı 0323 Ǿ
1EB6	Ǽ̇	LATIN CAPITAL LETTER A WITH BREVE AND DOT BELOW ≡ 1EA0 Ǽ̇ 0306 Ǿ	1ECC	Ȑ	LATIN CAPITAL LETTER O WITH DOT BELOW ≡ 004F Ȑ 0323 Ǿ
1EB7	ǿ	LATIN SMALL LETTER A WITH BREVE AND DOT BELOW ≡ 1EA1 ǿ 0306 Ǿ	1ECD	ȑ	LATIN SMALL LETTER O WITH DOT BELOW ≡ 006F ȑ 0323 Ǿ
1EB8	Ȥ	LATIN CAPITAL LETTER E WITH DOT BELOW ≡ 0045 Ȥ 0323 Ǿ	1ECE	Ȑ̇	LATIN CAPITAL LETTER O WITH HOOK ABOVE ≡ 004F Ȑ̇ 0309 Ǿ
1EB9	ȥ	LATIN SMALL LETTER E WITH DOT BELOW ≡ 0065 ȥ 0323 Ǿ	1ECF	ȑ̇	LATIN SMALL LETTER O WITH HOOK ABOVE ≡ 006F ȑ̇ 0309 Ǿ
1EBA	Ȥ̇	LATIN CAPITAL LETTER E WITH HOOK ABOVE ≡ 0045 Ȥ̇ 0309 Ǿ	1ED0	Ȑ̂	LATIN CAPITAL LETTER O WITH CIRCUMFLEX AND ACUTE ≡ 00D4 Ȑ̂ 0301 Ǿ
1EBB	ȥ̇	LATIN SMALL LETTER E WITH HOOK ABOVE ≡ 0065 ȥ̇ 0309 Ǿ	1ED1	ȑ̂	LATIN SMALL LETTER O WITH CIRCUMFLEX AND ACUTE ≡ 00F4 ȑ̂ 0301 Ǿ
1EBC	Ȥ̃	LATIN CAPITAL LETTER E WITH TILDE ≡ 0045 Ȥ̃ 0303 Ǿ	1ED2	Ȑ̃	LATIN CAPITAL LETTER O WITH CIRCUMFLEX AND GRAVE ≡ 00D4 Ȑ̃ 0300 Ǿ
1EBD	ȥ̃	LATIN SMALL LETTER E WITH TILDE ≡ 0065 ȥ̃ 0303 Ǿ	1ED3	ȑ̃	LATIN SMALL LETTER O WITH CIRCUMFLEX AND GRAVE ≡ 00F4 ȑ̃ 0300 Ǿ
1EBE	Ȥ̆	LATIN CAPITAL LETTER E WITH CIRCUMFLEX AND ACUTE ≡ 00CA Ȥ̆ 0301 Ǿ	1ED4	Ȑ̆	LATIN CAPITAL LETTER O WITH CIRCUMFLEX AND HOOK ABOVE ≡ 00D4 Ȑ̆ 0309 Ǿ
1EBF	ȥ̆	LATIN SMALL LETTER E WITH CIRCUMFLEX AND ACUTE ≡ 00EA ȥ̆ 0301 Ǿ	1ED5	ȑ̆	LATIN SMALL LETTER O WITH CIRCUMFLEX AND HOOK ABOVE ≡ 00F4 ȑ̆ 0309 Ǿ
1EC0	Ȥ̇̂	LATIN CAPITAL LETTER E WITH CIRCUMFLEX AND GRAVE ≡ 00CA Ȥ̇̂ 0300 Ǿ	1ED6	Ȑ̇̂	LATIN CAPITAL LETTER O WITH CIRCUMFLEX AND TILDE ≡ 00D4 Ȑ̇̂ 0303 Ǿ
1EC1	ȥ̇̂	LATIN SMALL LETTER E WITH CIRCUMFLEX AND GRAVE ≡ 00EA ȥ̇̂ 0300 Ǿ	1ED7	ȑ̇̂	LATIN SMALL LETTER O WITH CIRCUMFLEX AND TILDE ≡ 00F4 ȑ̇̂ 0303 Ǿ
1EC2	Ȥ̇̃	LATIN CAPITAL LETTER E WITH CIRCUMFLEX AND HOOK ABOVE ≡ 00CA Ȥ̇̃ 0309 Ǿ	1ED8	Ȑ̇̃	LATIN CAPITAL LETTER O WITH CIRCUMFLEX AND DOT BELOW ≡ 1ECC Ȑ̇̃ 0302 Ǿ
1EC3	ȥ̇̃	LATIN SMALL LETTER E WITH CIRCUMFLEX AND HOOK ABOVE ≡ 00EA ȥ̇̃ 0309 Ǿ	1ED9	ȑ̇̃	LATIN SMALL LETTER O WITH CIRCUMFLEX AND DOT BELOW ≡ 1ECD ȑ̇̃ 0302 Ǿ
1EC4	Ȥ̇̄	LATIN CAPITAL LETTER E WITH CIRCUMFLEX AND TILDE ≡ 00CA Ȥ̇̄ 0303 Ǿ	1EDA	Ȑ̇̄	LATIN CAPITAL LETTER O WITH HORN AND ACUTE ≡ 01A0 Ȑ̇̄ 0301 Ǿ
1EC5	ȥ̇̄	LATIN SMALL LETTER E WITH CIRCUMFLEX AND TILDE ≡ 00EA ȥ̇̄ 0303 Ǿ	1EDB	ȑ̇̄	LATIN SMALL LETTER O WITH HORN AND ACUTE ≡ 01A1 ȑ̇̄ 0301 Ǿ
1EC6	Ȥ̇̅	LATIN CAPITAL LETTER E WITH CIRCUMFLEX AND DOT BELOW ≡ 1EB8 Ȥ̇̅ 0302 Ǿ	1EDC	Ȑ̇̅	LATIN CAPITAL LETTER O WITH HORN AND GRAVE ≡ 01A0 Ȑ̇̅ 0300 Ǿ
1EC7	ȥ̇̅	LATIN SMALL LETTER E WITH CIRCUMFLEX AND DOT BELOW ≡ 1EB9 ȥ̇̅ 0302 Ǿ	1EDD	ȑ̇̅	LATIN SMALL LETTER O WITH HORN AND GRAVE ≡ 01A1 ȑ̇̅ 0300 Ǿ

1EDE	Ŏ	LATIN CAPITAL LETTER O WITH HORN AND HOOK ABOVE ≡ 01A0 Ŏ 0309 Ǿ
1EDF	ǿ	LATIN SMALL LETTER O WITH HORN AND HOOK ABOVE ≡ 01A1 ǿ 0309 Ǿ
1EE0	Õ	LATIN CAPITAL LETTER O WITH HORN AND TILDE ≡ 01A0 Ŏ 0303 ẽ
1EE1	õ	LATIN SMALL LETTER O WITH HORN AND TILDE ≡ 01A1 ǿ 0303 ẽ
1EE2	Ȫ	LATIN CAPITAL LETTER O WITH HORN AND DOT BELOW ≡ 01A0 Ŏ 0323 ȡ
1EE3	ȫ	LATIN SMALL LETTER O WITH HORN AND DOT BELOW ≡ 01A1 ǿ 0323 ȡ
1EE4	Ȭ	LATIN CAPITAL LETTER U WITH DOT BELOW ≡ 0055 Ů 0323 ȡ
1EE5	ȭ	LATIN SMALL LETTER U WITH DOT BELOW ≡ 0075 ȩ 0323 ȡ
1EE6	Ȯ	LATIN CAPITAL LETTER U WITH HOOK ABOVE ≡ 0055 Ů 0309 Ǿ
1EE7	ȯ	LATIN SMALL LETTER U WITH HOOK ABOVE ≡ 0075 ȩ 0309 Ǿ
1EE8	Ȱ	LATIN CAPITAL LETTER U WITH HORN AND ACUTE ≡ 01AF Ů 0301 ă
1EE9	ȱ	LATIN SMALL LETTER U WITH HORN AND ACUTE ≡ 01B0 ȩ 0301 ă
1EEA	Ȳ	LATIN CAPITAL LETTER U WITH HORN AND GRAVE ≡ 01AF Ů 0300 ̀
1EEB	ȳ	LATIN SMALL LETTER U WITH HORN AND GRAVE ≡ 01B0 ȩ 0300 ̀
1EEC	ȴ	LATIN CAPITAL LETTER U WITH HORN AND HOOK ABOVE ≡ 01AF Ů 0309 Ǿ
1EED	ȵ	LATIN SMALL LETTER U WITH HORN AND HOOK ABOVE ≡ 01B0 ȩ 0309 Ǿ
1EEE	ȶ	LATIN CAPITAL LETTER U WITH HORN AND TILDE ≡ 01AF Ů 0303 ẽ
1EEF	ȷ	LATIN SMALL LETTER U WITH HORN AND TILDE ≡ 01B0 ȩ 0303 ẽ
1EF0	ȸ	LATIN CAPITAL LETTER U WITH HORN AND DOT BELOW ≡ 01AF Ů 0323 ȡ
1EF1	ȹ	LATIN SMALL LETTER U WITH HORN AND DOT BELOW ≡ 01B0 ȩ 0323 ȡ

**Latin general extensions**

1EF2	Ỳ	LATIN CAPITAL LETTER Y WITH GRAVE ≡ 0059 Y 0300 ̀
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1EF3	ỳ	LATIN SMALL LETTER Y WITH GRAVE • Welsh ≡ 0079 y 0300 ̀
1EF4	Ỵ	LATIN CAPITAL LETTER Y WITH DOT BELOW ≡ 0059 Y 0323 ȡ
1EF5	ȳ	LATIN SMALL LETTER Y WITH DOT BELOW ≡ 0079 y 0323 ȡ
1EF6	Ỷ	LATIN CAPITAL LETTER Y WITH HOOK ABOVE ≡ 0059 Y 0309 Ǿ
1EF7	ȳ	LATIN SMALL LETTER Y WITH HOOK ABOVE ≡ 0079 y 0309 Ǿ
1EF8	Ỹ	LATIN CAPITAL LETTER Y WITH TILDE ≡ 0059 Y 0303 ẽ
1EF9	ȳ	LATIN SMALL LETTER Y WITH TILDE ≡ 0079 y 0303 ẽ

**Medievalist additions**

1EFA	Ȫ	LATIN CAPITAL LETTER MIDDLE-WELSH LL
1EFB	ȫ	LATIN SMALL LETTER MIDDLE-WELSH LL
1EFC	Ȭ	LATIN CAPITAL LETTER MIDDLE-WELSH V
1EFD	ȭ	LATIN SMALL LETTER MIDDLE-WELSH V
1EFE	Ȯ	LATIN CAPITAL LETTER Y WITH LOOP
1EFF	ȯ	LATIN SMALL LETTER Y WITH LOOP





1F00

Greek Extended

1FFF

	1F0	1F1	1F2	1F3	1F4	1F5	1F6	1F7	1F8	1F9	1FA	1FB	1FC	1FD	1FE	1FF
0	ᾀ 1F00	ᾁ 1F10	ᾂ 1F20	ᾃ 1F30	ᾄ 1F40	ᾅ 1F50	ᾆ 1F60	ᾇ 1F70	ᾈ 1F80	ᾉ 1F90	ᾊ 1FA0	ᾋ 1FB0	ᾌ 1FC0	ᾍ 1FD0	ᾎ 1FE0	
1	ᾐ 1F01	ᾑ 1F11	ᾒ 1F21	ᾓ 1F31	ᾔ 1F41	ᾕ 1F51	ᾖ 1F61	ᾗ 1F71	ᾘ 1F81	ᾙ 1F91	ᾚ 1FA1	ᾛ 1FB1	ᾜ 1FC1	ᾝ 1FD1	ᾞ 1FE1	
2	ᾘ 1F02	ᾙ 1F12	ᾚ 1F22	ᾛ 1F32	ᾜ 1F42	ᾝ 1F52	ᾞ 1F62	ᾟ 1F72	ᾠ 1F82	ᾡ 1F92	ᾢ 1FA2	ᾣ 1FB2	ᾤ 1FC2	ᾥ 1FD2	ᾦ 1FE2	ᾧ 1FF2
3	ᾘ 1F03	ᾙ 1F13	ᾚ 1F23	ᾛ 1F33	ᾜ 1F43	ᾝ 1F53	ᾞ 1F63	ᾟ 1F73	ᾠ 1F83	ᾡ 1F93	ᾢ 1FA3	ᾣ 1FB3	ᾤ 1FC3	ᾥ 1FD3	ᾦ 1FE3	ᾧ 1FF3
4	ᾐ 1F04	ᾑ 1F14	ᾒ 1F24	ᾓ 1F34	ᾔ 1F44	ᾕ 1F54	ᾖ 1F64	ᾗ 1F74	ᾘ 1F84	ᾙ 1F94	ᾚ 1FA4	ᾛ 1FB4	ᾜ 1FC4		ᾞ 1FE4	ᾧ 1FF4
5	ᾐ 1F05	ᾑ 1F15	ᾒ 1F25	ᾓ 1F35	ᾔ 1F45	ᾕ 1F55	ᾖ 1F65	ᾗ 1F75	ᾘ 1F85	ᾙ 1F95	ᾚ 1FA5				ᾞ 1FE5	
6	ᾐ 1F06		ᾒ 1F26	ᾓ 1F36		ᾕ 1F56	ᾖ 1F66	ᾗ 1F76	ᾘ 1F86	ᾙ 1F96	ᾚ 1FA6	ᾛ 1FB6	ᾜ 1FC6	ᾝ 1FD6	ᾞ 1FE6	ᾧ 1FF6
7	ᾐ 1F07		ᾒ 1F27	ᾓ 1F37		ᾕ 1F57	ᾖ 1F67	ᾗ 1F77	ᾘ 1F87	ᾙ 1F97	ᾚ 1FA7	ᾛ 1FB7	ᾜ 1FC7	ᾝ 1FD7	ᾞ 1FE7	ᾧ 1FF7
8	ᾐ 1F08	ᾑ 1F18	ᾒ 1F28	ᾓ 1F38	ᾔ 1F48		ᾖ 1F68	ᾗ 1F78	ᾘ 1F88	ᾙ 1F98	ᾚ 1FA8	ᾛ 1FB8	ᾜ 1FC8	ᾝ 1FD8	ᾞ 1FE8	ᾧ 1FF8
9	ᾐ 1F09	ᾑ 1F19	ᾒ 1F29	ᾓ 1F39	ᾔ 1F49	ᾕ 1F59	ᾖ 1F69	ᾗ 1F79	ᾘ 1F89	ᾙ 1F99	ᾚ 1FA9	ᾛ 1FB9	ᾜ 1FC9	ᾝ 1FD9	ᾞ 1FE9	ᾧ 1FF9
A	ᾐ 1F0A	ᾑ 1F1A	ᾒ 1F2A	ᾓ 1F3A	ᾔ 1F4A		ᾖ 1F6A	ᾗ 1F7A	ᾘ 1F8A	ᾙ 1F9A	ᾚ 1FAA	ᾛ 1FBA	ᾜ 1FCA	ᾝ 1FDA	ᾞ 1FEA	ᾧ 1FFA
B	ᾐ 1F0B	ᾑ 1F1B	ᾒ 1F2B	ᾓ 1F3B	ᾔ 1F4B	ᾕ 1F5B	ᾖ 1F6B	ᾗ 1F7B	ᾘ 1F8B	ᾙ 1F9B	ᾚ 1FAB	ᾛ 1FBB	ᾜ 1FCB	ᾝ 1FDB	ᾞ 1FEB	ᾧ 1FFB
C	ᾐ 1F0C	ᾑ 1F1C	ᾒ 1F2C	ᾓ 1F3C	ᾔ 1F4C		ᾖ 1F6C	ᾗ 1F7C	ᾘ 1F8C	ᾙ 1F9C	ᾚ 1FAC	ᾛ 1FBC	ᾜ 1FCC		ᾞ 1FEC	ᾧ 1FFC
D	ᾐ 1F0D	ᾑ 1F1D	ᾒ 1F2D	ᾓ 1F3D	ᾔ 1F4D	ᾕ 1F5D	ᾖ 1F6D	ᾗ 1F7D	ᾘ 1F8D	ᾙ 1F9D	ᾚ 1FAD	ᾛ 1FBD	ᾜ 1FCD	ᾝ 1FDD	ᾞ 1FED	ᾧ 1FFD
E	ᾐ 1F0E		ᾒ 1F2E	ᾓ 1F3E			ᾖ 1F6E		ᾘ 1F8E	ᾙ 1F9E	ᾚ 1FAE	ᾛ 1FBE	ᾜ 1FCE	ᾝ 1FDE	ᾞ 1FEE	ᾧ 1FFE
F	ᾐ 1F0F		ᾒ 1F2F	ᾓ 1F3F		ᾕ 1F5F	ᾖ 1F6F		ᾘ 1F8F	ᾙ 1F9F	ᾚ 1FAF	ᾛ 1FBF	ᾜ 1FCF	ᾝ 1FDF	ᾞ 1FEF	

**Precomposed polytonic Greek**

1F00	ᾀ	GREEK SMALL LETTER ALPHA WITH PSILI ≡ 03B1 α 0313 ῀
1F01	ᾁ	GREEK SMALL LETTER ALPHA WITH DASIA ≡ 03B1 α 0314 ῁
1F02	ᾂ	GREEK SMALL LETTER ALPHA WITH PSILI AND VARIA ≡ 1F00 ᾀ 0300 ῂ
1F03	ᾃ	GREEK SMALL LETTER ALPHA WITH DASIA AND VARIA ≡ 1F01 ᾁ 0300 ῃ
1F04	ᾄ	GREEK SMALL LETTER ALPHA WITH PSILI AND OXIA ≡ 1F00 ᾀ 0301 ῄ
1F05	ᾅ	GREEK SMALL LETTER ALPHA WITH DASIA AND OXIA ≡ 1F01 ᾁ 0301 ῅
1F06	ᾆ	GREEK SMALL LETTER ALPHA WITH PSILI AND PERISPOMENI ≡ 1F00 ᾀ 0342 ῆ
1F07	ᾇ	GREEK SMALL LETTER ALPHA WITH DASIA AND PERISPOMENI ≡ 1F01 ᾁ 0342 ῇ
1F08	Ἀ	GREEK CAPITAL LETTER ALPHA WITH PSILI ≡ 0391 Α 0313 ῐ
1F09	Ἀ	GREEK CAPITAL LETTER ALPHA WITH DASIA ≡ 0391 Α 0314 ῑ
1F0A	Ἀ	GREEK CAPITAL LETTER ALPHA WITH PSILI AND VARIA ≡ 1F08 Ἀ 0300 ῐ
1F0B	Ἀ	GREEK CAPITAL LETTER ALPHA WITH DASIA AND VARIA ≡ 1F09 Ἀ 0300 ῑ
1F0C	Ἀ	GREEK CAPITAL LETTER ALPHA WITH PSILI AND OXIA ≡ 1F08 Ἀ 0301 ῑ
1F0D	Ἀ	GREEK CAPITAL LETTER ALPHA WITH DASIA AND OXIA ≡ 1F09 Ἀ 0301 ῒ
1F0E	Ἀ	GREEK CAPITAL LETTER ALPHA WITH PSILI AND PERISPOMENI ≡ 1F08 Ἀ 0342 ῐ
1F0F	Ἀ	GREEK CAPITAL LETTER ALPHA WITH DASIA AND PERISPOMENI ≡ 1F09 Ἀ 0342 ῑ
1F10	Ἔ	GREEK SMALL LETTER EPSILON WITH PSILI ≡ 03B5 ε 0313 ῐ
1F11	Ἔ	GREEK SMALL LETTER EPSILON WITH DASIA ≡ 03B5 ε 0314 ῑ
1F12	Ἐ	GREEK SMALL LETTER EPSILON WITH PSILI AND VARIA ≡ 1F10 Ἔ 0300 ῐ
1F13	Ἐ	GREEK SMALL LETTER EPSILON WITH DASIA AND VARIA ≡ 1F11 Ἔ 0300 ῑ
1F14	Ἒ	GREEK SMALL LETTER EPSILON WITH PSILI AND OXIA ≡ 1F10 Ἔ 0301 ῑ
1F15	Ἒ	GREEK SMALL LETTER EPSILON WITH DASIA AND OXIA ≡ 1F11 Ἔ 0301 ῒ
1F16		<reserved>
1F17		<reserved>
1F18	Ἐ	GREEK CAPITAL LETTER EPSILON WITH PSILI ≡ 0395 Ε 0313 ῐ
1F19	Ἐ	GREEK CAPITAL LETTER EPSILON WITH DASIA ≡ 0395 Ε 0314 ῑ
1F1A	Ἐ	GREEK CAPITAL LETTER EPSILON WITH PSILI AND VARIA ≡ 1F18 Ἐ 0300 ῐ
1F1B	Ἐ	GREEK CAPITAL LETTER EPSILON WITH DASIA AND VARIA ≡ 1F19 Ἐ 0300 ῑ
1F1C	Ἐ	GREEK CAPITAL LETTER EPSILON WITH PSILI AND OXIA ≡ 1F18 Ἐ 0301 ῑ
1F1D	Ἐ	GREEK CAPITAL LETTER EPSILON WITH DASIA AND OXIA ≡ 1F19 Ἐ 0301 ῒ
1F1E		<reserved>
1F1F		<reserved>
1F20	ἥ	GREEK SMALL LETTER ETA WITH PSILI ≡ 03B7 η 0313 ῐ
1F21	ἥ	GREEK SMALL LETTER ETA WITH DASIA ≡ 03B7 η 0314 ῑ
1F22	Ἠ	GREEK SMALL LETTER ETA WITH PSILI AND VARIA ≡ 1F20 ἥ 0300 ῐ
1F23	Ἠ	GREEK SMALL LETTER ETA WITH DASIA AND VARIA ≡ 1F21 ἥ 0300 ῑ
1F24	Ἠ	GREEK SMALL LETTER ETA WITH PSILI AND OXIA ≡ 1F20 ἥ 0301 ῑ
1F25	Ἠ	GREEK SMALL LETTER ETA WITH DASIA AND OXIA ≡ 1F21 ἥ 0301 ῒ
1F26	Ἠ	GREEK SMALL LETTER ETA WITH PSILI AND PERISPOMENI ≡ 1F20 ἥ 0342 ῐ
1F27	Ἠ	GREEK SMALL LETTER ETA WITH DASIA AND PERISPOMENI ≡ 1F21 ἥ 0342 ῑ
1F28	Ἠ	GREEK CAPITAL LETTER ETA WITH PSILI ≡ 0397 Η 0313 ῐ
1F29	Ἠ	GREEK CAPITAL LETTER ETA WITH DASIA ≡ 0397 Η 0314 ῑ
1F2A	Ἠ	GREEK CAPITAL LETTER ETA WITH PSILI AND VARIA ≡ 1F28 Ἠ 0300 ῐ
1F2B	Ἠ	GREEK CAPITAL LETTER ETA WITH DASIA AND VARIA ≡ 1F29 Ἠ 0300 ῑ
1F2C	Ἠ	GREEK CAPITAL LETTER ETA WITH PSILI AND OXIA ≡ 1F28 Ἠ 0301 ῑ



## 1F2D

## Greek Extended

## 1F5C

1F2D	Ὶ	GREEK CAPITAL LETTER ETA WITH DASIA AND OXIA ≡ 1F29 Ὶ 0301 Ϛ
1F2E	Ὶ	GREEK CAPITAL LETTER ETA WITH PSILI AND PERISPOMENI ≡ 1F28 Ὶ 0342 ϛ
1F2F	Ὶ	GREEK CAPITAL LETTER ETA WITH DASIA AND PERISPOMENI ≡ 1F29 Ὶ 0342 ϛ
1F30	ι	GREEK SMALL LETTER IOTA WITH PSILI ≡ 03B9 ι 0313 Ϛ
1F31	ι	GREEK SMALL LETTER IOTA WITH DASIA ≡ 03B9 ι 0314 Ϛ
1F32	ῖ	GREEK SMALL LETTER IOTA WITH PSILI AND VARIA ≡ 1F30 ι 0300 Ϛ
1F33	ῖ	GREEK SMALL LETTER IOTA WITH DASIA AND VARIA ≡ 1F31 ι 0300 Ϛ
1F34	ῖ	GREEK SMALL LETTER IOTA WITH PSILI AND OXIA ≡ 1F30 ι 0301 Ϛ
1F35	ῖ	GREEK SMALL LETTER IOTA WITH DASIA AND OXIA ≡ 1F31 ι 0301 Ϛ
1F36	ῖ	GREEK SMALL LETTER IOTA WITH PSILI AND PERISPOMENI ≡ 1F30 ι 0342 ϛ
1F37	ῖ	GREEK SMALL LETTER IOTA WITH DASIA AND PERISPOMENI ≡ 1F31 ι 0342 ϛ
1F38	Ὶ	GREEK CAPITAL LETTER IOTA WITH PSILI ≡ 0399 Ὶ 0313 Ϛ
1F39	Ὶ	GREEK CAPITAL LETTER IOTA WITH DASIA ≡ 0399 Ὶ 0314 Ϛ
1F3A	Ὶ	GREEK CAPITAL LETTER IOTA WITH PSILI AND VARIA ≡ 1F38 Ὶ 0300 Ϛ
1F3B	Ὶ	GREEK CAPITAL LETTER IOTA WITH DASIA AND VARIA ≡ 1F39 Ὶ 0300 Ϛ
1F3C	Ὶ	GREEK CAPITAL LETTER IOTA WITH PSILI AND OXIA ≡ 1F38 Ὶ 0301 Ϛ
1F3D	Ὶ	GREEK CAPITAL LETTER IOTA WITH DASIA AND OXIA ≡ 1F39 Ὶ 0301 Ϛ
1F3E	Ὶ	GREEK CAPITAL LETTER IOTA WITH PSILI AND PERISPOMENI ≡ 1F38 Ὶ 0342 ϛ
1F3F	Ὶ	GREEK CAPITAL LETTER IOTA WITH DASIA AND PERISPOMENI ≡ 1F39 Ὶ 0342 ϛ
1F40	ο	GREEK SMALL LETTER OMICRON WITH PSILI ≡ 03BF ο 0313 Ϛ
1F41	ο	GREEK SMALL LETTER OMICRON WITH DASIA ≡ 03BF ο 0314 Ϛ
1F42	ὀ	GREEK SMALL LETTER OMICRON WITH PSILI AND VARIA ≡ 1F40 ο 0300 Ϛ
1F43	ὀ	GREEK SMALL LETTER OMICRON WITH DASIA AND VARIA ≡ 1F41 ο 0300 Ϛ
1F44	ὀ	GREEK SMALL LETTER OMICRON WITH PSILI AND OXIA ≡ 1F40 ο 0301 Ϛ
1F45	ὀ	GREEK SMALL LETTER OMICRON WITH DASIA AND OXIA ≡ 1F41 ο 0301 Ϛ
1F46	␣	<reserved>
1F47	␣	<reserved>
1F48	Ο	GREEK CAPITAL LETTER OMICRON WITH PSILI ≡ 039F Ο 0313 Ϛ
1F49	Ο	GREEK CAPITAL LETTER OMICRON WITH DASIA ≡ 039F Ο 0314 Ϛ
1F4A	Ὶ	GREEK CAPITAL LETTER OMICRON WITH PSILI AND VARIA ≡ 1F48 Ο 0300 Ϛ
1F4B	Ὶ	GREEK CAPITAL LETTER OMICRON WITH DASIA AND VARIA ≡ 1F49 Ο 0300 Ϛ
1F4C	Ὶ	GREEK CAPITAL LETTER OMICRON WITH PSILI AND OXIA ≡ 1F48 Ο 0301 Ϛ
1F4D	Ὶ	GREEK CAPITAL LETTER OMICRON WITH DASIA AND OXIA ≡ 1F49 Ο 0301 Ϛ
1F4E	␣	<reserved>
1F4F	␣	<reserved>
1F50	υ	GREEK SMALL LETTER UPSILON WITH PSILI ≡ 03C5 υ 0313 Ϛ
1F51	υ	GREEK SMALL LETTER UPSILON WITH DASIA ≡ 03C5 υ 0314 Ϛ
1F52	ῦ	GREEK SMALL LETTER UPSILON WITH PSILI AND VARIA ≡ 1F50 υ 0300 Ϛ
1F53	ῦ	GREEK SMALL LETTER UPSILON WITH DASIA AND VARIA ≡ 1F51 υ 0300 Ϛ
1F54	ῦ	GREEK SMALL LETTER UPSILON WITH PSILI AND OXIA ≡ 1F50 υ 0301 Ϛ
1F55	ῦ	GREEK SMALL LETTER UPSILON WITH DASIA AND OXIA ≡ 1F51 υ 0301 Ϛ
1F56	ῦ	GREEK SMALL LETTER UPSILON WITH PSILI AND PERISPOMENI ≡ 1F50 υ 0342 ϛ
1F57	ῦ	GREEK SMALL LETTER UPSILON WITH DASIA AND PERISPOMENI ≡ 1F51 υ 0342 ϛ
1F58	␣	<reserved>
1F59	Υ	GREEK CAPITAL LETTER UPSILON WITH DASIA ≡ 03A5 Υ 0314 Ϛ
1F5A	␣	<reserved>
1F5B	Ὶ	GREEK CAPITAL LETTER UPSILON WITH DASIA AND VARIA ≡ 1F59 Υ 0300 Ϛ
1F5C	␣	<reserved>

1F5D	Υ	GREEK CAPITAL LETTER UPSILON WITH DASIA AND OXIA ≡ 1F59 Υ 0301 ◌	1F74	η	GREEK SMALL LETTER ETA WITH VARIA ≡ 03B7 η 0300 ◌
1F5E		<reserved>	1F75	ή	GREEK SMALL LETTER ETA WITH OXIA ≡ 03AE ή greek small letter eta with tonos
1F5F	Υ	GREEK CAPITAL LETTER UPSILON WITH DASIA AND PERISPOMENI ≡ 1F59 Υ 0342 ◌	1F76	ι	GREEK SMALL LETTER IOTA WITH VARIA ≡ 03B9 ι 0300 ◌
1F60	Ω	GREEK SMALL LETTER OMEGA WITH PSILI ≡ 03C9 Ω 0313 ◌	1F77	ί	GREEK SMALL LETTER IOTA WITH OXIA ≡ 03AF ί greek small letter iota with tonos
1F61	Ω	GREEK SMALL LETTER OMEGA WITH DASIA ≡ 03C9 Ω 0314 ◌	1F78	ο	GREEK SMALL LETTER OMICRON WITH VARIA ≡ 03BF ο 0300 ◌
1F62	Ω	GREEK SMALL LETTER OMEGA WITH PSILI AND VARIA ≡ 1F60 Ω 0300 ◌	1F79	ό	GREEK SMALL LETTER OMICRON WITH OXIA ≡ 03CC ό greek small letter omicron with tonos
1F63	Ω	GREEK SMALL LETTER OMEGA WITH DASIA AND VARIA ≡ 1F61 Ω 0300 ◌	1F7A	υ	GREEK SMALL LETTER UPSILON WITH VARIA ≡ 03C5 υ 0300 ◌
1F64	Ω	GREEK SMALL LETTER OMEGA WITH PSILI AND OXIA ≡ 1F60 Ω 0301 ◌	1F7B	ύ	GREEK SMALL LETTER UPSILON WITH OXIA ≡ 03CD ύ greek small letter upsilon with tonos
1F65	Ω	GREEK SMALL LETTER OMEGA WITH DASIA AND OXIA ≡ 1F61 Ω 0301 ◌	1F7C	ω	GREEK SMALL LETTER OMEGA WITH VARIA ≡ 03C9 ω 0300 ◌
1F66	Ω	GREEK SMALL LETTER OMEGA WITH PSILI AND PERISPOMENI ≡ 1F60 Ω 0342 ◌	1F7D	ώ	GREEK SMALL LETTER OMEGA WITH OXIA ≡ 03CE ώ greek small letter omega with tonos
1F67	Ω	GREEK SMALL LETTER OMEGA WITH DASIA AND PERISPOMENI ≡ 1F61 Ω 0342 ◌	1F7E		<reserved>
1F68	Ω	GREEK CAPITAL LETTER OMEGA WITH PSILI ≡ 03A9 Ω 0313 ◌	1F7F		<reserved>
1F69	Ω	GREEK CAPITAL LETTER OMEGA WITH DASIA ≡ 03A9 Ω 0314 ◌	1F80	α	GREEK SMALL LETTER ALPHA WITH PSILI AND YPOGEGRAMMENI ≡ 1F00 α 0345 ◌
1F6A	Ω	GREEK CAPITAL LETTER OMEGA WITH PSILI AND VARIA ≡ 1F68 Ω 0300 ◌	1F81	α	GREEK SMALL LETTER ALPHA WITH DASIA AND YPOGEGRAMMENI ≡ 1F01 α 0345 ◌
1F6B	Ω	GREEK CAPITAL LETTER OMEGA WITH DASIA AND VARIA ≡ 1F69 Ω 0300 ◌	1F82	α	GREEK SMALL LETTER ALPHA WITH PSILI AND VARIA AND YPOGEGRAMMENI ≡ 1F02 α 0345 ◌
1F6C	Ω	GREEK CAPITAL LETTER OMEGA WITH PSILI AND OXIA ≡ 1F68 Ω 0301 ◌	1F83	α	GREEK SMALL LETTER ALPHA WITH DASIA AND VARIA AND YPOGEGRAMMENI ≡ 1F03 α 0345 ◌
1F6D	Ω	GREEK CAPITAL LETTER OMEGA WITH DASIA AND OXIA ≡ 1F69 Ω 0301 ◌	1F84	α	GREEK SMALL LETTER ALPHA WITH PSILI AND OXIA AND YPOGEGRAMMENI ≡ 1F04 α 0345 ◌
1F6E	Ω	GREEK CAPITAL LETTER OMEGA WITH PSILI AND PERISPOMENI ≡ 1F68 Ω 0342 ◌	1F85	α	GREEK SMALL LETTER ALPHA WITH DASIA AND OXIA AND YPOGEGRAMMENI ≡ 1F05 α 0345 ◌
1F6F	Ω	GREEK CAPITAL LETTER OMEGA WITH DASIA AND PERISPOMENI ≡ 1F69 Ω 0342 ◌	1F86	α	GREEK SMALL LETTER ALPHA WITH PSILI AND PERISPOMENI AND YPOGEGRAMMENI ≡ 1F06 α 0345 ◌
1F70	α	GREEK SMALL LETTER ALPHA WITH VARIA ≡ 03B1 α 0300 ◌	1F87	α	GREEK SMALL LETTER ALPHA WITH DASIA AND PERISPOMENI AND YPOGEGRAMMENI ≡ 1F07 α 0345 ◌
1F71	ά	GREEK SMALL LETTER ALPHA WITH OXIA ≡ 03AC ά greek small letter alpha with tonos	1F88	Α	GREEK CAPITAL LETTER ALPHA WITH PSILI AND PROSGEGRAMMENI ≡ 1F08 Α 0345 ◌
1F72	ε	GREEK SMALL LETTER EPSILON WITH VARIA ≡ 03B5 ε 0300 ◌	1F89	Α	GREEK CAPITAL LETTER ALPHA WITH DASIA AND PROSGEGRAMMENI ≡ 1F09 Α 0345 ◌
1F73	ε	GREEK SMALL LETTER EPSILON WITH OXIA ≡ 03AD έ greek small letter epsilon with tonos	1F8A	Α	GREEK CAPITAL LETTER ALPHA WITH PSILI AND VARIA AND PROSGEGRAMMENI ≡ 1F0A Α 0345 ◌
			1F8B	Α	GREEK CAPITAL LETTER ALPHA WITH DASIA AND VARIA AND PROSGEGRAMMENI ≡ 1F0B Α 0345 ◌

## 1F8C

## Greek Extended

## 1FB4

1F8C	Α. GREEK CAPITAL LETTER ALPHA WITH PSILI AND OXIA AND PROSGEGRAMMENI ≡ 1F0C Α 0345 ◌	1FA0	ϰ. GREEK SMALL LETTER OMEGA WITH PSILI AND YPOGEGRAMMENI ≡ 1F60 ϰ 0345 ◌
1F8D	Α. GREEK CAPITAL LETTER ALPHA WITH DASIA AND OXIA AND PROSGEGRAMMENI ≡ 1F0D Α 0345 ◌	1FA1	ϰ. GREEK SMALL LETTER OMEGA WITH DASIA AND YPOGEGRAMMENI ≡ 1F61 ϰ 0345 ◌
1F8E	Α. GREEK CAPITAL LETTER ALPHA WITH PSILI AND PERISPOMENI AND PROSGEGRAMMENI ≡ 1F0E Α 0345 ◌	1FA2	ϰ. GREEK SMALL LETTER OMEGA WITH PSILI AND VARIA AND YPOGEGRAMMENI ≡ 1F62 ϰ 0345 ◌
1F8F	Α. GREEK CAPITAL LETTER ALPHA WITH DASIA AND PERISPOMENI AND PROSGEGRAMMENI ≡ 1F0F Α 0345 ◌	1FA3	ϰ. GREEK SMALL LETTER OMEGA WITH DASIA AND VARIA AND YPOGEGRAMMENI ≡ 1F63 ϰ 0345 ◌
1F90	η. GREEK SMALL LETTER ETA WITH PSILI AND YPOGEGRAMMENI ≡ 1F20 η 0345 ◌	1FA4	ϰ. GREEK SMALL LETTER OMEGA WITH PSILI AND OXIA AND YPOGEGRAMMENI ≡ 1F64 ϰ 0345 ◌
1F91	η. GREEK SMALL LETTER ETA WITH DASIA AND YPOGEGRAMMENI ≡ 1F21 η 0345 ◌	1FA5	ϰ. GREEK SMALL LETTER OMEGA WITH DASIA AND OXIA AND YPOGEGRAMMENI ≡ 1F65 ϰ 0345 ◌
1F92	η. GREEK SMALL LETTER ETA WITH PSILI AND VARIA AND YPOGEGRAMMENI ≡ 1F22 η 0345 ◌	1FA6	ϰ. GREEK SMALL LETTER OMEGA WITH PSILI AND PERISPOMENI AND YPOGEGRAMMENI ≡ 1F66 ϰ 0345 ◌
1F93	η. GREEK SMALL LETTER ETA WITH DASIA AND VARIA AND YPOGEGRAMMENI ≡ 1F23 η 0345 ◌	1FA7	ϰ. GREEK SMALL LETTER OMEGA WITH DASIA AND PERISPOMENI AND YPOGEGRAMMENI ≡ 1F67 ϰ 0345 ◌
1F94	η. GREEK SMALL LETTER ETA WITH PSILI AND OXIA AND YPOGEGRAMMENI ≡ 1F24 η 0345 ◌	1FA8	Ω. GREEK CAPITAL LETTER OMEGA WITH PSILI AND PROSGEGRAMMENI ≡ 1F68 Ω 0345 ◌
1F95	η. GREEK SMALL LETTER ETA WITH DASIA AND OXIA AND YPOGEGRAMMENI ≡ 1F25 η 0345 ◌	1FA9	Ω. GREEK CAPITAL LETTER OMEGA WITH DASIA AND PROSGEGRAMMENI ≡ 1F69 Ω 0345 ◌
1F96	η. GREEK SMALL LETTER ETA WITH PSILI AND PERISPOMENI AND YPOGEGRAMMENI ≡ 1F26 η 0345 ◌	1FAA	Ω. GREEK CAPITAL LETTER OMEGA WITH PSILI AND VARIA AND PROSGEGRAMMENI ≡ 1F6A Ω 0345 ◌
1F97	η. GREEK SMALL LETTER ETA WITH DASIA AND PERISPOMENI AND YPOGEGRAMMENI ≡ 1F27 η 0345 ◌	1FAB	Ω. GREEK CAPITAL LETTER OMEGA WITH DASIA AND VARIA AND PROSGEGRAMMENI ≡ 1F6B Ω 0345 ◌
1F98	Η. GREEK CAPITAL LETTER ETA WITH PSILI AND PROSGEGRAMMENI ≡ 1F28 Η 0345 ◌	1FAC	Ω. GREEK CAPITAL LETTER OMEGA WITH PSILI AND OXIA AND PROSGEGRAMMENI ≡ 1F6C Ω 0345 ◌
1F99	Η. GREEK CAPITAL LETTER ETA WITH DASIA AND PROSGEGRAMMENI ≡ 1F29 Η 0345 ◌	1FAD	Ω. GREEK CAPITAL LETTER OMEGA WITH DASIA AND OXIA AND PROSGEGRAMMENI ≡ 1F6D Ω 0345 ◌
1F9A	Η. GREEK CAPITAL LETTER ETA WITH PSILI AND VARIA AND PROSGEGRAMMENI ≡ 1F2A Η 0345 ◌	1FAE	Ω. GREEK CAPITAL LETTER OMEGA WITH PSILI AND PERISPOMENI AND PROSGEGRAMMENI ≡ 1F6E Ω 0345 ◌
1F9B	Η. GREEK CAPITAL LETTER ETA WITH DASIA AND VARIA AND PROSGEGRAMMENI ≡ 1F2B Η 0345 ◌	1FAF	Ω. GREEK CAPITAL LETTER OMEGA WITH DASIA AND PERISPOMENI AND PROSGEGRAMMENI ≡ 1F6F Ω 0345 ◌
1F9C	Η. GREEK CAPITAL LETTER ETA WITH PSILI AND OXIA AND PROSGEGRAMMENI ≡ 1F2C Η 0345 ◌	1FB0	α. GREEK SMALL LETTER ALPHA WITH VRACHY ≡ 03B1 α 0306 ◌
1F9D	Η. GREEK CAPITAL LETTER ETA WITH DASIA AND OXIA AND PROSGEGRAMMENI ≡ 1F2D Η 0345 ◌	1FB1	α. GREEK SMALL LETTER ALPHA WITH MACRON ≡ 03B1 α 0304 ◌
1F9E	Η. GREEK CAPITAL LETTER ETA WITH PSILI AND PERISPOMENI AND PROSGEGRAMMENI ≡ 1F2E Η 0345 ◌	1FB2	α. GREEK SMALL LETTER ALPHA WITH VARIA AND YPOGEGRAMMENI ≡ 1F70 α 0345 ◌
1F9F	Η. GREEK CAPITAL LETTER ETA WITH DASIA AND PERISPOMENI AND PROSGEGRAMMENI ≡ 1F2F Η 0345 ◌	1FB3	α. GREEK SMALL LETTER ALPHA WITH YPOGEGRAMMENI ≡ 03B1 α 0345 ◌
		1FB4	α. GREEK SMALL LETTER ALPHA WITH OXIA AND YPOGEGRAMMENI ≡ 03AC α 0345 ◌

















































































































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1FB6	Ϳ	GREEK SMALL LETTER ALPHA WITH PERISPOMENI ≡ 03B1 α 0342 Ϳ	1FD0	Ϳ	GREEK SMALL LETTER IOTA WITH VRACHY ≡ 03B9 ι 0306 Ϳ
1FB7	Ϳ	GREEK SMALL LETTER ALPHA WITH PERISPOMENI AND YPOGEGRAMMENI ≡ 1FB6 Ϳ 0345 Ϳ	1FD1	Ϳ	GREEK SMALL LETTER IOTA WITH MACRON ≡ 03B9 ι 0304 Ϳ
1FB8	Ϳ	GREEK CAPITAL LETTER ALPHA WITH VRACHY ≡ 0391 Α 0306 Ϳ	1FD2	Ϳ	GREEK SMALL LETTER IOTA WITH DIALYTIKA AND VARIA ≡ 03CA Ϳ 0300 Ϳ
1FB9	Ϳ	GREEK CAPITAL LETTER ALPHA WITH MACRON ≡ 0391 Α 0304 Ϳ	1FD3	Ϳ	GREEK SMALL LETTER IOTA WITH DIALYTIKA AND OXIA ≡ 0390 Ϳ greek small letter iota with dialytika and tonos
1FBA	Ϳ	GREEK CAPITAL LETTER ALPHA WITH VARIA ≡ 0391 Α 0300 Ϳ	1FD4		<reserved>
1FBB	Ϳ	GREEK CAPITAL LETTER ALPHA WITH OXIA ≡ 0386 Α greek capital letter alpha with tonos	1FD5		<reserved>
1FBC	Ϳ	GREEK CAPITAL LETTER ALPHA WITH PROSGEGRAMMENI ≡ 0391 Α 0345 Ϳ	1FD6	Ϳ	GREEK SMALL LETTER IOTA WITH PERISPOMENI ≡ 03B9 ι 0342 Ϳ
1FBD	Ϳ	GREEK KORONIS ≈ 0020 Ϳ 0313 Ϳ	1FD7	Ϳ	GREEK SMALL LETTER IOTA WITH DIALYTIKA AND PERISPOMENI ≡ 03CA Ϳ 0342 Ϳ
1FBE	Ϳ	GREEK PROSGEGRAMMENI ≡ 03B9 ι greek small letter iota	1FD8	Ϳ	GREEK CAPITAL LETTER IOTA WITH VRACHY ≡ 0399 Ι 0306 Ϳ
1FBF	Ϳ	GREEK PSILI → 02BC Ϳ modifier letter apostrophe ≈ 0020 Ϳ 0313 Ϳ	1FD9	Ϳ	GREEK CAPITAL LETTER IOTA WITH MACRON ≡ 0399 Ι 0304 Ϳ
1FC0	Ϳ	GREEK PERISPOMENI ≈ 0020 Ϳ 0342 Ϳ	1FDA	Ϳ	GREEK CAPITAL LETTER IOTA WITH VARIA ≡ 0399 Ι 0300 Ϳ
1FC1	Ϳ	GREEK DIALYTIKA AND PERISPOMENI ≡ 00A8 Ϳ 0342 Ϳ	1FDB	Ϳ	GREEK CAPITAL LETTER IOTA WITH OXIA ≡ 038A Ϳ greek capital letter iota with tonos
1FC2	Ϳ	GREEK SMALL LETTER ETA WITH VARIA AND YPOGEGRAMMENI ≡ 1F74 Ϳ 0345 Ϳ	1FDC		<reserved>
1FC3	Ϳ	GREEK SMALL LETTER ETA WITH YPOGEGRAMMENI ≡ 03B7 η 0345 Ϳ	1FDD	Ϳ	GREEK DASIA AND VARIA ≡ 1FFE Ϳ 0300 Ϳ
1FC4	Ϳ	GREEK SMALL LETTER ETA WITH OXIA AND YPOGEGRAMMENI ≡ 03AE Ϳ 0345 Ϳ	1FDE	Ϳ	GREEK DASIA AND OXIA ≡ 1FFE Ϳ 0301 Ϳ
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1FC6	Ϳ	GREEK SMALL LETTER ETA WITH PERISPOMENI ≡ 03B7 η 0342 Ϳ	1FE0	Ϳ	GREEK SMALL LETTER UPSILON WITH VRACHY ≡ 03C5 υ 0306 Ϳ
1FC7	Ϳ	GREEK SMALL LETTER ETA WITH PERISPOMENI AND YPOGEGRAMMENI ≡ 1FC6 Ϳ 0345 Ϳ	1FE1	Ϳ	GREEK SMALL LETTER UPSILON WITH MACRON ≡ 03C5 υ 0304 Ϳ
1FC8	Ϳ	GREEK CAPITAL LETTER EPSILON WITH VARIA ≡ 0395 Ε 0300 Ϳ	1FE2	Ϳ	GREEK SMALL LETTER UPSILON WITH DIALYTIKA AND VARIA ≡ 03CB Ϳ 0300 Ϳ
1FC9	Ϳ	GREEK CAPITAL LETTER EPSILON WITH OXIA ≡ 0388 Ε greek capital letter epsilon with tonos	1FE3	Ϳ	GREEK SMALL LETTER UPSILON WITH DIALYTIKA AND OXIA ≡ 03B0 Ϳ greek small letter upsilon with dialytika and tonos
1FCA	Ϳ	GREEK CAPITAL LETTER ETA WITH VARIA ≡ 0397 Η 0300 Ϳ	1FE4	Ϳ	GREEK SMALL LETTER RHO WITH PSILI ≡ 03C1 ρ 0313 Ϳ
1FCB	Ϳ	GREEK CAPITAL LETTER ETA WITH OXIA ≡ 0389 Η greek capital letter eta with tonos	1FE5	Ϳ	GREEK SMALL LETTER RHO WITH DASIA ≡ 03C1 ρ 0314 Ϳ
1FCC	Ϳ	GREEK CAPITAL LETTER ETA WITH PROSGEGRAMMENI ≡ 0397 Η 0345 Ϳ	1FE6	Ϳ	GREEK SMALL LETTER UPSILON WITH PERISPOMENI ≡ 03C5 υ 0342 Ϳ
1FCD	Ϳ	GREEK PSILI AND VARIA ≡ 1FBF Ϳ 0300 Ϳ	1FE7	Ϳ	GREEK SMALL LETTER UPSILON WITH DIALYTIKA AND PERISPOMENI ≡ 03CB Ϳ 0342 Ϳ
1FCE	Ϳ	GREEK PSILI AND OXIA ≡ 1FBF Ϳ 0301 Ϳ	1FE8	Ϳ	GREEK CAPITAL LETTER UPSILON WITH VRACHY ≡ 03A5 Υ 0306 Ϳ

## 1FE9

## Greek Extended

























## 1FFE

1FE9	Ų	GREEK CAPITAL LETTER UPSILON WITH MACRON ≡ 03A5 Ų 0304 ̄
1FEA	Ų̂	GREEK CAPITAL LETTER UPSILON WITH VARIA ≡ 03A5 Ų 0300 ̂
1FEB	Ų̃	GREEK CAPITAL LETTER UPSILON WITH OXIA ≡ 038E Ų̃ greek capital letter upsilon with tonos
1FEC	Ų̇	GREEK CAPITAL LETTER RHO WITH DASIA ≡ 03A1 Ų̇ 0314 ͂
1FED	͂	GREEK DIALYTIKA AND VARIA ≡ 00A8 ͂ 0300 ̂
1FEE	͂̂	GREEK DIALYTIKA AND OXIA ≡ 0385 ͂̂ greek dialytika tonos
1FEF	`	GREEK VARIA ≡ 0060 ` grave accent
1FF0		<reserved>
1FF1		<reserved>
1FF2	ϳ̂	GREEK SMALL LETTER OMEGA WITH VARIA AND YPOGEGRAMMENI ≡ 1F7C ϳ̂ 0345 ͂̂
1FF3	ϳ̃	GREEK SMALL LETTER OMEGA WITH YPOGEGRAMMENI ≡ 03C9 ϳ̃ 0345 ͂̂
1FF4	ϳ̇	GREEK SMALL LETTER OMEGA WITH OXIA AND YPOGEGRAMMENI ≡ 03CE ϳ̇ 0345 ͂̂
1FF5		<reserved>
1FF6	ϳ̈́	GREEK SMALL LETTER OMEGA WITH PERISPOMENI ≡ 03C9 ϳ̈́ 0342 ͂̈́
1FF7	ϳ̈́͂	GREEK SMALL LETTER OMEGA WITH PERISPOMENI AND YPOGEGRAMMENI ≡ 1FF6 ϳ̈́͂ 0345 ͂̂
1FF8	͂̂	GREEK CAPITAL LETTER OMICRON WITH VARIA ≡ 039F ͂̂ 0300 ̂
1FF9	͂̃	GREEK CAPITAL LETTER OMICRON WITH OXIA ≡ 038C ͂̃ greek capital letter omicron with tonos
1FFA	͂̂̂	GREEK CAPITAL LETTER OMEGA WITH VARIA ≡ 03A9 ͂̂̂ 0300 ̂
1FFB	͂̃̂	GREEK CAPITAL LETTER OMEGA WITH OXIA ≡ 038F ͂̃̂ greek capital letter omega with tonos
1FFC	͂̇̂	GREEK CAPITAL LETTER OMEGA WITH PROSGEGRAMMENI ≡ 03A9 ͂̇̂ 0345 ͂̂
1FFD	͂̇	GREEK OXIA ≡ 00B4 ͂̇ acute accent
1FFE	͂̈́	GREEK DASIA → 02BD ͂̈́ modifier letter reversed comma ≈ 0020  0314 ͂̈́




	200	201	202	203	204	205	206
0	 2000	 2010	 2020	 2030	 2040	 2050	 2060
1	 2001	 2011	 2021	 2031	 2041	 2051	 2061
2	 2002	 2012	 2022	 2032	 2042	 2052	 2062
3	 2003	 2013	 2023	 2033	 2043	 2053	 2063
4	 2004	 2014	 2024	 2034	 2044	 2054	 2064
5	 2005	 2015	 2025	 2035	 2045	 2055	
6	 2006	 2016	 2026	 2036	 2046	 2056	
7	 2007	 2017	 2027	 2037	 2047	 2057	
8	 2008	 2018	 2028	 2038	 2048	 2058	
9	 2009	 2019	 2029	 2039	 2049	 2059	
A	 200A	 201A	 202A	 203A	 204A	 205A	 206A
B	 200B	 201B	 202B	 203B	 204B	 205B	 206B
C	 200C	 201C	 202C	 203C	 204C	 205C	 206C
D	 200D	 201D	 202D	 203D	 204D	 205D	 206D
E	 200E	 201E	 202E	 203E	 204E	 205E	 206E
F	 200F	 201F	 202F	 203F	 204F	 205F	 206F


For additional general punctuation characters see also  
Basic Latin, Latin-1, Supplemental Punctuation and CJK  
Symbols and Punctuation.

**Spaces**










- 2000  **EN QUAD**  
= 2002  en space
- 2001  **EM QUAD**  
= mutton quad  
= 2003  em space
- 2002  **EN SPACE**  
= nut  
• half an em  
≈ 0020  space
- 2003  **EM SPACE**  
= mutton  
• nominally, a space equal to the type size in points  
• may scale by the condensation factor of a font  
≈ 0020  space
- 2004  **THREE-PER-EM SPACE**  
= thick space  
≈ 0020  space
- 2005  **FOUR-PER-EM SPACE**  
= mid space  
≈ 0020  space
- 2006  **SIX-PER-EM SPACE**  
• in computer typography sometimes equated to thin space  
≈ 0020  space
- 2007  **FIGURE SPACE**  
• space equal to tabular width of a font  
• this is equivalent to the digit width of fonts with fixed-width digits  
≈ <noBreak> 0020  space
- 2008  **PUNCTUATION SPACE**  
• space equal to narrow punctuation of a font  
≈ 0020  space
- 2009  **THIN SPACE**  
• a fifth of an em (or sometimes a sixth)  
→ 202F  narrow no-break space  
≈ 0020  space
- 200A  **HAIR SPACE**  
• thinner than a thin space  
• in traditional typography, the thinnest space available  
≈ 0020  space
- 200B  **ZERO WIDTH SPACE**  
• commonly abbreviated ZWSP  
• this character is intended for line break control; it has no width, but its presence between two characters does not prevent increased letter spacing in justification

**Format characters**















- 200C  **ZERO WIDTH NON-JOINER**  
• commonly abbreviated ZWNJ
- 200D  **ZERO WIDTH JOINER**  
• commonly abbreviated ZWJ
- 200E  **LEFT-TO-RIGHT MARK**  
• commonly abbreviated LRM

- 200F  **RIGHT-TO-LEFT MARK**  
• commonly abbreviated RLM

**Dashes**

- 2010  **HYPHEN**  
→ 002D - hyphen-minus  
→ 00AD  soft hyphen
- 2011  **NON-BREAKING HYPHEN**  
→ 002D - hyphen-minus  
→ 00AD  soft hyphen  
≈ <noBreak> 2010 -
- 2012  **FIGURE DASH**
- 2013  **EN DASH**
- 2014  **EM DASH**  
• may be used in pairs to offset parenthetical text  
→ 30FC  katakana-hiragana prolonged sound mark
- 2015  **HORIZONTAL BAR**  
= quotation dash  
• long dash introducing quoted text

**General punctuation**

- 2016  **DOUBLE VERTICAL LINE**  
• used in pairs to indicate norm of a matrix  
→ 20E6  combining double vertical stroke overlay  
→ 2225  parallel to
- 2017  **DOUBLE LOW LINE**  
• this is a spacing character  
→ 005F  low line  
→ 0333  combining double low line  
≈ 0020  0333 
- 2018  **LEFT SINGLE QUOTATION MARK**  
= single turned comma quotation mark  
• this is the preferred character (as opposed to 201B ‘ )  
→ 0027 ' apostrophe  
→ 02BB ‘ modifier letter turned comma  
→ 275B  heavy single turned comma quotation mark ornament
- 2019  **RIGHT SINGLE QUOTATION MARK**  
= single comma quotation mark  
• this is the preferred character to use for apostrophe  
→ 0027 ' apostrophe  
→ 02BC ’ modifier letter apostrophe  
→ 275C  heavy single comma quotation mark ornament
- 201A  **SINGLE LOW-9 QUOTATION MARK**  
= low single comma quotation mark  
• used as opening single quotation mark in some languages
- 201B  **SINGLE HIGH-REVERSED-9 QUOTATION MARK**  
= single reversed comma quotation mark  
• has same semantic as 2018 ‘ , but differs in appearance  
→ 02BD ‘ modifier letter reversed comma

- 201C “ **LEFT DOUBLE QUOTATION MARK**  
= double turned comma quotation mark  
• this is the preferred character (as opposed to 201F “ )  
→ 0022 " quotation mark  
→ 275D “ heavy double turned comma quotation mark ornament  
→ 301D “ reversed double prime quotation mark
- 201D ” **RIGHT DOUBLE QUOTATION MARK**  
= double comma quotation mark  
→ 0022 " quotation mark  
→ 2033 " double prime  
→ 275E ” heavy double comma quotation mark ornament  
→ 301E ” double prime quotation mark
- 201E „ **DOUBLE LOW-9 QUOTATION MARK**  
= low double comma quotation mark  
• used as opening double quotation mark in some languages  
→ 301F „ low double prime quotation mark
- 201F “ **DOUBLE HIGH-REVERSED-9 QUOTATION MARK**  
= double reversed comma quotation mark  
• has same semantic as 201C “ , but differs in appearance
- 2020 † **DAGGER**  
= obelisk, obelus, long cross
- 2021 ‡ **DOUBLE DAGGER**  
= diesis, double obelisk
- 2022 • **BULLET**  
= black small circle  
→ 00B7 • middle dot  
→ 2024 . one dot leader  
→ 2219 • bullet operator  
→ 25D8 ◻ inverse bullet  
→ 25E6 ◦ white bullet
- 2023 ► **TRIANGULAR BULLET**  
→ 220E ■ end of proof  
→ 25B8 ► black right-pointing small triangle
- 2024 . **ONE DOT LEADER**  
• also used as an Armenian semicolon (mijaket)  
→ 00B7 • middle dot  
→ 2022 • bullet  
→ 2219 • bullet operator  
≈ 002E . full stop
- 2025 .. **TWO DOT LEADER**  
≈ 002E . 002E .
- 2026 ... **HORIZONTAL ELLIPSIS**  
= three dot leader  
→ 22EE ∴ vertical ellipsis  
→ FE19 ∴ presentation form for vertical horizontal ellipsis  
≈ 002E . 002E . 002E .
- 2027 · **HYPHENATION POINT**

**Format characters**

- 2028 ¶ **LINE SEPARATOR**  
• may be used to represent this semantic unambiguously

- 2029 ¶ **PARAGRAPH SEPARATOR**  
• may be used to represent this semantic unambiguously
- 202A ↪ **LEFT-TO-RIGHT EMBEDDING**  
• commonly abbreviated LRE
- 202B ↩ **RIGHT-TO-LEFT EMBEDDING**  
• commonly abbreviated RLE
- 202C ⇨ **POP DIRECTIONAL FORMATTING**  
• commonly abbreviated PDF
- 202D ↲ **LEFT-TO-RIGHT OVERRIDE**  
• commonly abbreviated LRO
- 202E ↳ **RIGHT-TO-LEFT OVERRIDE**  
• commonly abbreviated RLO
- 202F ⁝ **NARROW NO-BREAK SPACE**  
• commonly abbreviated NNBS  
• a narrow form of a no-break space, typically the width of a thin space or a mid space  
→ 00A0 ⁝ no-break space  
→ 2005 ⁝ four-per-em space  
→ 2009 ⁝ thin space  
≈ <noBreak> 0020 ⁝

**General punctuation**

- 2030 ‰ **PER MILLE SIGN**  
= permille, per thousand  
• used, for example, in measures of blood alcohol content, salinity, etc.  
→ 0025 ‰ percent sign  
→ 0609 ‰ arabic-indic per mille sign
- 2031 ‱ **PER TEN THOUSAND SIGN**  
= permyriad  
• percent of a percent, rarely used  
→ 0025 ‱ percent sign  
→ 060A ‱ arabic-indic per ten thousand sign
- 2032 ' **PRIME**  
= minutes, feet  
→ 0027 ' apostrophe  
→ 00B4 ´ acute accent  
→ 02B9 ´ modifier letter prime
- 2033 " **DOUBLE PRIME**  
= seconds, inches  
→ 0022 " quotation mark  
→ 02BA " modifier letter double prime  
→ 201D ” right double quotation mark  
→ 3003 " ditto mark  
→ 301E " double prime quotation mark  
≈ 2032 ' 2032 '
- 2034 ''' **TRIPLE PRIME**  
= lines (old measure, 1/12 of an inch)  
≈ 2032 ' 2032 ' 2032 '
- 2035 ` **REVERSED PRIME**  
→ 0060 ` grave accent
- 2036 “ **REVERSED DOUBLE PRIME**  
→ 301D “ reversed double prime quotation mark  
≈ 2035 ` 2035 `
- 2037 ⁝ **REVERSED TRIPLE PRIME**  
≈ 2035 ` 2035 ` 2035 `



- 2038 ^ CARET  
→ 2303 ^ up arrowhead  
→ A788 ^ modifier letter low circumflex accent
- 2039 ‹ SINGLE LEFT-POINTING ANGLE QUOTATION MARK  
= left pointing single guillemet  
• usually opening, sometimes closing  
→ 003C < less-than sign  
→ 2329 ‹ left-pointing angle bracket  
→ 3008 ‹ left angle bracket
- 203A › SINGLE RIGHT-POINTING ANGLE QUOTATION MARK  
= right pointing single guillemet  
• usually closing, sometimes opening  
→ 003E > greater-than sign  
→ 232A › right-pointing angle bracket  
→ 3009 › right angle bracket
- 203B ※ REFERENCE MARK  
= Japanese kome  
= Urdu paragraph separator  
→ 0FBF ※ tibetan ku ru kha bzhi mig can  
→ 200AD ※ cjk unified ideograph-200AD

**Double punctuation for vertical text**

- 203C !! DOUBLE EXCLAMATION MARK  
→ 0021 ! exclamation mark  
≈ 0021 ! 0021 !

**General punctuation**

- 203D ? INTERROBANG  
→ 0021 ! exclamation mark  
→ 003F ? question mark  
→ 2E18 ⁄ inverted interrobang
- 203E ¯ OVERLINE  
= spacing overscore  
≈ 0020 [sp] 0305 ¯
- 203F ~ UNDERTIE  
= Greek enotikon  
→ 2323 ~ smile
- 2040 ˆ CHARACTER TIE  
= z notation sequence concatenation  
→ 2322 ˆ frown
- 2041 ˆ CARET INSERTION POINT  
• proofreader's mark: insert here  
→ 22CC ˆ right semidirect product
- 2042 \* ASTERISM
- 2043 - HYPHEN BULLET
- 2044 / FRACTION SLASH  
= solidus (in typography)  
• for composing arbitrary fractions  
→ 002F / solidus  
→ 2215 / division slash
- 2045 [ LEFT SQUARE BRACKET WITH QUILL
- 2046 ] RIGHT SQUARE BRACKET WITH QUILL

**Double punctuation for vertical text**

- 2047 ?? DOUBLE QUESTION MARK  
≈ 003F ? 003F ?
- 2048 ?! QUESTION EXCLAMATION MARK  
≈ 003F ? 0021 !

- 2049 !? EXCLAMATION QUESTION MARK  
≈ 0021 ! 003F ?

**General punctuation**

- 204A ˆ TIRONIAN SIGN ET  
• Irish Gaelic, Old English, ...  
→ 0026 & ampersand
- 204B ʀ REVERSED PILCROW SIGN  
→ 00B6 ¶ pilcrow sign
- 204C • BLACK LEFTWARDS BULLET
- 204D › BLACK RIGHTWARDS BULLET
- 204E \* LOW ASTERISK  
→ 002A \* asterisk  
→ 0359 ◌ combining asterisk below
- 204F ; REVERSED SEMICOLON  
→ 003B ; semicolon
- 2050 ○ CLOSE UP  
• editing mark
- 2051 \* TWO ASTERISKS ALIGNED VERTICALLY
- 2052 ⁄ COMMERCIAL MINUS SIGN  
= abzüglich (German), med avdrag av (Swedish), piska (Swedish, "whip")  
• a common glyph variant and fallback representation looks like ./.  
• may also be used as a dingbat to indicate correctness  
• used in Finno-Ugric Phonetic Alphabet to indicate a related borrowed form with different sound  
→ 0025 % percent sign  
→ 066A ٪ arabic percent sign
- 2053 ~ SWUNG DASH  
→ 007E ~ tilde
- 2054 ˆ INVERTED UNDERTIE
- 2055 \* FLOWER PUNCTUATION MARK  
= phul, puspika  
• used as a punctuation mark with Syloti Nagri, Bengali and other Indic scripts  
→ 274B \* heavy eight teardrop-spoked propeller asterisk

**Archaic punctuation**









- 2056 ∴ THREE DOT PUNCTUATION

**General punctuation**



- 2057 ⁂ QUADRUPLE PRIME  
≈ 2032 ' 2032 ' 2032 ' 2032 '

**Archaic punctuation**



- 2058 ∴ FOUR DOT PUNCTUATION
- 2059 ∴ FIVE DOT PUNCTUATION  
= Greek pentonkion  
= quincunx  
→ 2684 ☒ die face-5
- 205A ∴ TWO DOT PUNCTUATION  
• historically used to indicate the end of a sentence or change of speaker  
• extends from baseline to cap height  
→ FE30 ∴ presentation form for vertical two dot leader  
→ 1015B ∴ greek acrophonic epidaurean two

- 205B  **FOUR DOT MARK**
- used by scribes in the margin as highlighter mark
  - this is centered on the line, but extends beyond top and bottom of the line
- 205C  **DOTTED CROSS**
- used by scribes in the margin as highlighter mark
- 205D  **TRICOLON**
- = Epidaurean acrophonic symbol three
  - 22EE  vertical ellipsis
  - 2AF6  triple colon operator
  - FE19  presentation form for vertical ellipsis
  -  horizontal ellipsis
- 205E  **VERTICAL FOUR DOTS**
- used in dictionaries to indicate legal but undesirable word break
  - glyph extends the whole height of the line





**Space**

- 205F  **MEDIUM MATHEMATICAL SPACE**
- abbreviated MMSP
  - four-eighteenths of an em
  - ≈ 0020  space

**Format character**







- 2060  **WORD JOINER**
- commonly abbreviated WJ
  - a zero width non-breaking space (only)
  - intended for disambiguation of functions for byte order mark
  - FEFF  zero width no-break space

**Invisible operators**

- 2061  **FUNCTION APPLICATION**
- contiguity operator indicating application of a function
- 2062  **INVISIBLE TIMES**
- contiguity operator indicating multiplication
- 2063  **INVISIBLE SEPARATOR**
- = invisible comma
  - contiguity operator indicating that adjacent mathematical symbols form a list, e.g. when no visible comma is used between multiple indices
- 2064  **INVISIBLE PLUS**
- contiguity operator indicating addition

**Deprecated**

*Use of these characters is strongly discouraged.*

- 206A  **INHIBIT SYMMETRIC SWAPPING**
- 206B  **ACTIVATE SYMMETRIC SWAPPING**
- 206C  **INHIBIT ARABIC FORM SHAPING**
- 206D  **ACTIVATE ARABIC FORM SHAPING**
- 206E  **NATIONAL DIGIT SHAPES**
- 206F  **NOMINAL DIGIT SHAPES**


	207	208	209
0	0 2070	0 2080	a 2090
1	i 2071	1 2081	e 2091
2		2 2082	o 2092
3		3 2083	x 2093
4	4 2074	4 2084	ə 2094
5	5 2075	5 2085	
6	6 2076	6 2086	
7	7 2077	7 2087	
8	8 2078	8 2088	
9	9 2079	9 2089	
A	+ 207A	+ 208A	
B	— 207B	— 208B	
C	= 207C	= 208C	
D	( 207D	( 208D	
E	) 207E	) 208E	
F	n 207F		

**Superscripts**

2070	<sup>0</sup>	SUPERSCRIT ZERO ≈ <super> 0030 0
2071	<sup>i</sup>	SUPERSCRIT LATIN SMALL LETTER I ≈ <super> 0069 i
2072		<reserved> → 00B2 <sup>2</sup> superscript two
2073		<reserved> → 00B3 <sup>3</sup> superscript three
2074	<sup>4</sup>	SUPERSCRIT FOUR ≈ <super> 0034 4
2075	<sup>5</sup>	SUPERSCRIT FIVE ≈ <super> 0035 5
2076	<sup>6</sup>	SUPERSCRIT SIX ≈ <super> 0036 6
2077	<sup>7</sup>	SUPERSCRIT SEVEN ≈ <super> 0037 7
2078	<sup>8</sup>	SUPERSCRIT EIGHT ≈ <super> 0038 8
2079	<sup>9</sup>	SUPERSCRIT NINE ≈ <super> 0039 9
207A	<sup>+</sup>	SUPERSCRIT PLUS SIGN ≈ <super> 002B +
207B	<sup>-</sup>	SUPERSCRIT MINUS ≈ <super> 2212 –
207C	<sup>=</sup>	SUPERSCRIT EQUALS SIGN ≈ <super> 003D =
207D	<sup>(</sup>	SUPERSCRIT LEFT PARENTHESIS ≈ <super> 0028 (
207E	<sup>)</sup>	SUPERSCRIT RIGHT PARENTHESIS ≈ <super> 0029 )
207F	<sup>n</sup>	SUPERSCRIT LATIN SMALL LETTER N ≈ <super> 006E n

**Subscripts**

2080	<sub>0</sub>	SUBSCRIPT ZERO ≈ <sub> 0030 0
2081	<sub>1</sub>	SUBSCRIPT ONE ≈ <sub> 0031 1
2082	<sub>2</sub>	SUBSCRIPT TWO ≈ <sub> 0032 2
2083	<sub>3</sub>	SUBSCRIPT THREE ≈ <sub> 0033 3
2084	<sub>4</sub>	SUBSCRIPT FOUR ≈ <sub> 0034 4
2085	<sub>5</sub>	SUBSCRIPT FIVE ≈ <sub> 0035 5
2086	<sub>6</sub>	SUBSCRIPT SIX ≈ <sub> 0036 6
2087	<sub>7</sub>	SUBSCRIPT SEVEN ≈ <sub> 0037 7
2088	<sub>8</sub>	SUBSCRIPT EIGHT ≈ <sub> 0038 8
2089	<sub>9</sub>	SUBSCRIPT NINE ≈ <sub> 0039 9
208A	<sub>+</sub>	SUBSCRIPT PLUS SIGN ≈ <sub> 002B +

208B	<sub>-</sub>	SUBSCRIPT MINUS ≈ <sub> 2212 –
208C	<sub>=</sub>	SUBSCRIPT EQUALS SIGN ≈ <sub> 003D =
208D	<sub>(</sub>	SUBSCRIPT LEFT PARENTHESIS ≈ <sub> 0028 (
208E	<sub>)</sub>	SUBSCRIPT RIGHT PARENTHESIS ≈ <sub> 0029 )
208F		<reserved>
2090	<sub>a</sub>	LATIN SUBSCRIPT SMALL LETTER A ≈ <sub> 0061 a
2091	<sub>e</sub>	LATIN SUBSCRIPT SMALL LETTER E ≈ <sub> 0065 e
2092	<sub>o</sub>	LATIN SUBSCRIPT SMALL LETTER O ≈ <sub> 006F o
2093	<sub>x</sub>	LATIN SUBSCRIPT SMALL LETTER X ≈ <sub> 0078 x
2094	<sub>ə</sub>	LATIN SUBSCRIPT SMALL LETTER SCHWA ≈ <sub> 0259 ə

20A0

## Currency Symbols

20CF

	20A	20B	20C
0	₣ 20A0	₧ 20B0	
1	₡ 20A1	₪ 20B1	
2	₢ 20A2	₣ 20B2	
3	₤ 20A3	₥ 20B3	
4	₦ 20A4	₧ 20B4	
5	₨ 20A5	₩ 20B5	
6	₪ 20A6	€ 20B6	
7	₭ 20A7	₮ 20B7	
8	₯ 20A8	₰ 20B8	
9	₱ 20A9		
A	₲ 20AA		
B	₳ 20AB		
C	₴ 20AC		
D	₵ 20AD		
E	₶ 20AE		
F	₷ 20AF		


































**Currency symbols**

*A number of currency symbols are found in other blocks.*

*Fullwidth versions of some currency symbols are found in the Halfwidth and Fullwidth Forms block.*

	→ 0024 \$	dollar sign
	→ 00A2 ¢	cent sign
	→ 00A3 £	pound sign
	→ 00A4 ₭	currency sign
	→ 00A5 ¥	yen sign
	→ 0192 ₿	latin small letter f with hook
	→ 060B ⅈ	afghani sign
	→ 09F2 ₭	bengali rupee mark
	→ 09F3 ₭	bengali rupee sign
	→ 0AF1 ₭	gujarati rupee sign
	→ 0BF9 ₭	tamil rupee sign
	→ 0E3F ฿	thai currency symbol baht
	→ 17DB ₭	khmer currency symbol riel
	→ 2133 ₱	script capital m
	→ 5143 元	CJK unified ideograph-5143
	→ 5186 円	CJK unified ideograph-5186
	→ 5706 圓	CJK unified ideograph-5706
	→ 5713 圓	CJK unified ideograph-5713
	→ FDCC ₭	rial sign
20A0	€	<b>EURO-CURRENCY SIGN</b>
		• intended for ECU, but not widely used
		• historical character; this is NOT the euro!
	→ 20AC €	euro sign
20A1	₡	<b>COLON SIGN</b>
		• Costa Rica, El Salvador
20A2	₢	<b>CRUZEIRO SIGN</b>
		• Brazil
20A3	₣	<b>FRENCH FRANC SIGN</b>
		• France
20A4	₤	<b>LIRA SIGN</b>
		• intended for lira, but not widely used
		• preferred character for lira is 00A3 £
	→ 00A3 £	pound sign
20A5	¢	<b>MILL SIGN</b>
		• USA (1/10 cent)
20A6	₦	<b>NAIRA SIGN</b>
		• Nigeria
20A7	₧	<b>PESETA SIGN</b>
		• Spain
	→ 20B1 ₧	peso sign
20A8	₹	<b>RUPEE SIGN</b>
		• India
	≈ 0052 R 0073 s	
20A9	₩	<b>WON SIGN</b>
		• Korea
20AA	₪	<b>NEW SHEQEL SIGN</b>
		• Israel
20AB	₫	<b>DONG SIGN</b>
		• Vietnam
20AC	€	<b>EURO SIGN</b>
		• currency sign for the European Monetary Union
		• euro, not ecu
	→ 20A0 €	euro-currency sign

20AD	₭	<b>KIP SIGN</b>
		• Laos
20AE	₮	<b>TUGRIK SIGN</b>
		• Mongolia
		• also transliterated as tugrug, tugric, tugrog, togrog, tögrog
20AF	₯	<b>DRACHMA SIGN</b>
		• Greece
20B0	₱	<b>GERMAN PENNY SIGN</b>
20B1	₲	<b>PESO SIGN</b>
		• Philippines
		• the Mexican peso is indicated with the dollar sign
	→ 20A7 ₧	peseta sign
20B2	₳	<b>GUARANI SIGN</b>
		• Paraguay
		• Often represented by G. or Gs.
20B3	₴	<b>AUSTRAL SIGN</b>
		• former Argentinian currency
20B4	₵	<b>HRVYNIA SIGN</b>
		• Ukraine
20B5	₶	<b>CEDI SIGN</b>
		• Ghana
		• glyph may look like ‘C’ or like C with a short vertical stroke through the upper arm
	→ 00A2 ¢	cent sign
	→ 023B Ć	latin capital letter c with stroke
20B6	₷	<b>LIVRE TOURNOIS SIGN</b>
		• used in France from 13th-18th centuries
20B7	₸	<b>SPESMILO SIGN</b>
		• historical international currency associated with Esperanto
20B8	₹	<b>TENGE SIGN</b>
		• Kazakhstan
	→ 2351 ₹	apl functional symbol up tack overbar
	→ 2564 ₹	box drawings down single and horizontal double
	→ 3012 ₹	postal mark

	20D	20E	20F
0	 20D0	 20E0	 20F0
1	 20D1	 20E1	
2	 20D2	 20E2	
3	 20D3	 20E3	
4	 20D4	 20E4	
5	 20D5	 20E5	
6	 20D6	 20E6	
7	 20D7	 20E7	
8	 20D8	 20E8	
9	 20D9	 20E9	
A	 20DA	 20EA	
B	 20DB	 20EB	
C	 20DC	 20EC	
D	 20DD	 20ED	
E	 20DE	 20EE	
F	 20DF	 20EF	

**Combining diacritical marks for symbols**

20D0	◌̈	COMBINING LEFT HARPOON ABOVE
20D1	◌̇	COMBINING RIGHT HARPOON ABOVE • vector
20D2	◌̱	COMBINING LONG VERTICAL LINE OVERLAY • negation
20D3	◌̲	COMBINING SHORT VERTICAL LINE OVERLAY • occasional variant for negation
20D4	◌̤	COMBINING ANTICLOCKWISE ARROW ABOVE
20D5	◌̥	COMBINING CLOCKWISE ARROW ABOVE • rotation
20D6	◌̦	COMBINING LEFT ARROW ABOVE
20D7	◌̧	COMBINING RIGHT ARROW ABOVE • vector
20D8	◌̨	COMBINING RING OVERLAY
20D9	◌̩	COMBINING CLOCKWISE RING OVERLAY
20DA	◌̪	COMBINING ANTICLOCKWISE RING OVERLAY
20DB	◌̫	COMBINING THREE DOTS ABOVE = third derivative
20DC	◌̬	COMBINING FOUR DOTS ABOVE = fourth derivative

**Enclosing diacritics**

20DD	◌̭	COMBINING ENCLOSING CIRCLE = JIS composition circle = Cyrillic combining ten thousands sign → 25CB ◯ white circle → 25EF ◯ large circle → 3007 ◯ ideographic number zero
20DE	◌̮	COMBINING ENCLOSING SQUARE → 25A1 ◻ white square
20DF	◌̯	COMBINING ENCLOSING DIAMOND → 25C7 ◊ white diamond
20E0	◌̰	COMBINING ENCLOSING CIRCLE BACKSLASH • prohibition

**Additional diacritical mark for symbols**

20E1	◌̱	COMBINING LEFT RIGHT ARROW ABOVE • tensor
------	----	--

**Additional enclosing diacritics**

20E2	◌̱	COMBINING ENCLOSING SCREEN → 239A ◻ clear screen symbol
20E3	◌̱	COMBINING ENCLOSING KEYCAP
20E4	◌̱	COMBINING ENCLOSING UPWARD POINTING TRIANGLE → 25B3 ◴ white up-pointing triangle

**Additional diacritical marks for symbols**

20E5	◌̱	COMBINING REVERSE SOLIDUS OVERLAY → 005C \ reverse solidus
20E6	◌̱	COMBINING DOUBLE VERTICAL STROKE OVERLAY = z notation finite function diacritic → 2016 ∥ double vertical line
20E7	◌̱	COMBINING ANNUITY SYMBOL = actuarial bend → 2309 7 right ceiling
20E8	◌̱	COMBINING TRIPLE UNDERDOT

20E9	◌̱	COMBINING WIDE BRIDGE ABOVE = contraction operator • extends the full width of the base character → 0346 ◌ combining bridge above
20EA	◌̱	COMBINING LEFTWARDS ARROW OVERLAY → 2190 ← leftwards arrow
20EB	◌̱	COMBINING LONG DOUBLE SOLIDUS OVERLAY = long double slash overlay
20EC	◌̱	COMBINING RIGHTWARDS HARPOON WITH BARB DOWNWARDS
20ED	◌̱	COMBINING LEFTWARDS HARPOON WITH BARB DOWNWARDS
20EE	◌̱	COMBINING LEFT ARROW BELOW
20EF	◌̱	COMBINING RIGHT ARROW BELOW
20F0	◌̱	COMBINING ASTERISK ABOVE



## Letterlike Symbols

	210	211	212	213	214
0	$\alpha/c$ 2100	$\mathcal{I}$ 2110	SM 2120	$\mathcal{E}^{\circ}$ 2130	$\Sigma$ 2140
1	$\alpha/s$ 2101	$\mathcal{J}$ 2111	TEL 2121	$\mathcal{F}$ 2131	$\mathfrak{G}$ 2141
2	$\mathbb{C}$ 2102	$\mathcal{L}$ 2112	TM 2122	$\mathfrak{H}$ 2132	$\daleth$ 2142
3	$^{\circ}\text{C}$ 2103	$\ell$ 2113	$\mathfrak{V}$ 2123	$\mathcal{M}$ 2133	$\lrcorner$ 2143
4	$\text{¢}$ 2104	$\mathfrak{W}$ 2114	$\mathbb{Z}$ 2124	$e$ 2134	$\wedge$ 2144
5	$\text{‰}$ 2105	$\mathbb{N}$ 2115	$\mathfrak{Z}$ 2125	$\mathfrak{X}$ 2135	$\mathbb{D}$ 2145
6	$\text{‰}$ 2106	$\text{No}$ 2116	$\Omega$ 2126	$\beth$ 2136	$\mathfrak{d}$ 2146
7	$\mathcal{E}$ 2107	$\mathbb{P}$ 2117	$\mathfrak{U}$ 2127	$\lambda$ 2137	$e$ 2147
8	$\mathfrak{D}$ 2108	$\wp$ 2118	$\mathfrak{Z}$ 2128	$\daleth$ 2138	$\dot{\imath}$ 2148
9	$^{\circ}\text{F}$ 2109	$\mathbb{P}$ 2119	$\mathfrak{r}$ 2129	$\mathfrak{i}$ 2139	$\mathfrak{j}$ 2149
A	$\mathfrak{g}$ 210A	$\mathbb{Q}$ 211A	$\mathbb{K}$ 212A	$\mathfrak{O}$ 213A	$\mathfrak{P}$ 214A
B	$\mathcal{H}$ 210B	$\mathcal{R}$ 211B	$\text{\AA}$ 212B	FAX 213B	$\mathfrak{X}$ 214B
C	$\mathfrak{H}$ 210C	$\mathfrak{R}$ 211C	$\mathcal{B}$ 212C	$\pi$ 213C	$\mathfrak{P}$ 214C
D	$\mathbb{H}$ 210D	$\mathbb{R}$ 211D	$\mathfrak{C}$ 212D	$\gamma$ 213D	$\text{\AA}/s$ 214D
E	$h$ 210E	$\mathbb{R}$ 211E	$e$ 212E	$\mathfrak{T}$ 213E	$\mathfrak{H}$ 214E
F	$\hbar$ 210F	$\mathfrak{R}$ 211F	$e$ 212F	$\mathbb{I}$ 213F	$\mathfrak{W}$ 214F

**Letterlike symbols**

*Some of the letterlike symbols are intended to complete the set of mathematical alphanumeric symbols starting at U+1D400.*

2100	‰	ACCOUNT OF
		≈ 0061 a 002F / 0063 c
2101	‰	ADDRESSED TO THE SUBJECT
		→ 214D ‰ aktieselskab
		≈ 0061 a 002F / 0073 s
2102	ℂ	DOUBLE-STRUCK CAPITAL C
		= the set of complex numbers
		≈ <font> 0043 C latin capital letter c
2103	°C	DEGREE CELSIUS
		= degrees Centigrade
		≈ 00B0 ° 0043 C
2104	¢	CENTRE LINE SYMBOL
		= clone
2105	‰	CARE OF
		≈ 0063 c 002F / 006F o
2106	‰	CADA UNA
		≈ 0063 c 002F / 0075 u
2107	ℰ	EULER CONSTANT
		→ 0045 E latin capital letter e
		≈ 0190 ℰ latin capital letter open e
2108	Ⓢ	SCRUPLE
2109	°F	DEGREE FAHRENHEIT
		≈ 00B0 ° 0046 F
210A	ℓ	SCRIPT SMALL G
		= real number symbol
		≈ <font> 0067 g latin small letter g
210B	ℋ	SCRIPT CAPITAL H
		= Hamiltonian operator
		≈ <font> 0048 H latin capital letter h
210C	ℋ	BLACK-LETTER CAPITAL H
		= Hilbert space
		≈ <font> 0048 H latin capital letter h
210D	ℋ	DOUBLE-STRUCK CAPITAL H
		≈ <font> 0048 H latin capital letter h
210E	ℏ	PLANCK CONSTANT
		= height, specific enthalpy, ...
		• simply a mathematical italic h; this character's name results from legacy usage
		≈ <font> 0068 h latin small letter h
210F	ℏ	PLANCK CONSTANT OVER TWO PI
		→ 045B ℏ cyrillic small letter tshe
		≈ <font> 0127 h latin small letter h with stroke
2110	ℐ	SCRIPT CAPITAL I
		≈ <font> 0049 I latin capital letter i
2111	ℑ	BLACK-LETTER CAPITAL I
		= imaginary part
		≈ <font> 0049 I latin capital letter i
2112	ℒ	SCRIPT CAPITAL L
		= Laplace transform
		≈ <font> 004C L latin capital letter l

2113	ℓ	SCRIPT SMALL L
		= mathematical symbol 'ell'
		= liter (traditional symbol)
		• despite its character name, this symbol is derived from a special italicized version of the small letter l
		• the SI recommended symbol for liter is 006C l
		→ 1D4C1 / mathematical script small l
		≈ <font> 006C l latin small letter l
2114	£	L B BAR SYMBOL
		= pounds
		→ 0023 # number sign
2115	ℕ	DOUBLE-STRUCK CAPITAL N
		= natural number
		• a glyph variant with doubled vertical strokes exists
		≈ <font> 004E N latin capital letter n
2116	№	NUMERO SIGN
		≈ 004E N 006F o
2117	©	SOUND RECORDING COPYRIGHT
		= published
		= phonorecord sign
		→ 00A9 © copyright sign
		→ 24C5 © circled latin capital letter p
2118	℘	SCRIPT CAPITAL P
		= Weierstrass elliptic function
		• actually this has the form of a lowercase calligraphic p, despite its name
2119	ℙ	DOUBLE-STRUCK CAPITAL P
		≈ <font> 0050 P latin capital letter p
211A	ℚ	DOUBLE-STRUCK CAPITAL Q
		= the set of rational numbers
		≈ <font> 0051 Q latin capital letter q
211B	℞	SCRIPT CAPITAL R
		= Riemann Integral
		≈ <font> 0052 R latin capital letter r
211C	℞	BLACK-LETTER CAPITAL R
		= real part
		≈ <font> 0052 R latin capital letter r
211D	ℝ	DOUBLE-STRUCK CAPITAL R
		= the set of real numbers
		≈ <font> 0052 R latin capital letter r
211E	℞	PRESCRIPTION TAKE
		= recipe
		= cross ratio
211F	℞	RESPONSE
2120	SM	SERVICE MARK
		≈ <sup> 0053 S 004D M
2121	TEL	TELEPHONE SIGN
		• typical forms for this symbol may use lower case, small caps or superscripted letter shapes
		→ 260E ☎ black telephone
		→ 2706 ☎ telephone location sign
		≈ 0054 T 0045 E 004C L
2122	TM	TRADE MARK SIGN
		→ 1F12E ™ circled wz
		≈ <sup> 0054 T 004D M
2123	✠	VERSICLE

- 2124  $\mathbb{Z}$  **DOUBLE-STRUCK CAPITAL Z**  
= the set of integers  
 $\approx$  <font> 005A **Z** latin capital letter z
- 2125  $\text{͡}$  **OUNCE SIGN**  
→ 021D  $\text{͡}$  latin small letter yogh
- 2126  $\Omega$  **OHM SIGN**  
• SI unit of resistance, named after G. S. Ohm, German physicist  
• preferred representation is 03A9  $\Omega$   
→ 260A  $\Omega$  ascending node  
 $\equiv$  03A9  $\Omega$  greek capital letter omega
- 2127  $\text{͜}$  **INVERTED OHM SIGN**  
= mho  
• archaic unit of conductance (= the SI unit siemens)  
• typographically a turned greek capital letter omega  
→ 01B1  $\text{͜}$  latin capital letter upsilon  
→ 03A9  $\Omega$  greek capital letter omega  
→ 260B  $\text{͜}$  descending node
- 2128  $\mathbb{Z}$  **BLACK-LETTER CAPITAL Z**  
 $\approx$  <font> 005A **Z** latin capital letter z
- 2129  $\text{͡}$  **TURNED GREEK SMALL LETTER IOTA**  
• unique element fulfilling a description (logic)  
→ 03B9  $\text{͡}$  greek small letter iota
- 212A **K** **KELVIN SIGN**  
 $\equiv$  004B **K** latin capital letter k
- 212B  $\text{\AA}$  **ANGSTROM SIGN**  
• non SI length unit (=0.1 nm) named after A. J. Ångström, Swedish physicist  
• preferred representation is 00C5  $\text{\AA}$   
 $\equiv$  00C5  $\text{\AA}$  latin capital letter a with ring above
- 212C  $\mathcal{B}$  **SCRIPT CAPITAL B**  
= Bernoulli function  
 $\approx$  <font> 0042 **B** latin capital letter b
- 212D  $\mathcal{C}$  **BLACK-LETTER CAPITAL C**  
 $\approx$  <font> 0043 **C** latin capital letter c
- 212E  $e$  **ESTIMATED SYMBOL**  
• used in European packaging  
→ 0065  $e$  latin small letter e
- 212F  $\epsilon$  **SCRIPT SMALL E**  
= error  
= natural exponent  
 $\approx$  <font> 0065  $e$  latin small letter e
- 2130  $\mathcal{E}$  **SCRIPT CAPITAL E**  
= emf (electromotive force)  
 $\approx$  <font> 0045 **E** latin capital letter e
- 2131  $\mathcal{F}$  **SCRIPT CAPITAL F**  
= Fourier transform  
 $\approx$  <font> 0046 **F** latin capital letter f
- 2132  $\text{͡}$  **TURNED CAPITAL F**  
= Claudian digamma inversum  
• lowercase is 214E  $\text{͡}$   
→ 0046 **F** latin capital letter f  
→ 03DC **F** greek letter digamma

- 2133  $\mathcal{M}$  **SCRIPT CAPITAL M**  
= M-matrix (physics)  
= German Mark currency symbol, before WWII  
• when used for the Mark symbol, the range of glyph variation is restricted  
 $\approx$  <font> 004D **M** latin capital letter m
- 2134  $\mathcal{O}$  **SCRIPT SMALL O**  
= order, of inferior order to  
 $\approx$  <font> 006F  $\mathcal{O}$  latin small letter o

**Hebrew letterlike math symbols***These are left-to-right characters.*

- 2135  $\aleph$  **ALEF SYMBOL**  
= first transfinite cardinal (countable)  
 $\approx$  05D0  $\aleph$  hebrew letter alef
- 2136  $\beth$  **BET SYMBOL**  
= second transfinite cardinal (the continuum)  
 $\approx$  05D1  $\beth$  hebrew letter bet
- 2137  $\gimel$  **GIMEL SYMBOL**  
= third transfinite cardinal (functions of a real variable)  
 $\approx$  05D2  $\gimel$  hebrew letter gimel
- 2138  $\daleth$  **DALET SYMBOL**  
= fourth transfinite cardinal  
 $\approx$  05D3  $\daleth$  hebrew letter dalet

**Additional letterlike symbols**

- 2139  $\mathfrak{i}$  **INFORMATION SOURCE**  
• intended for use with 20DD ©  
 $\approx$  <font> 0069  $\mathfrak{i}$  latin small letter i
- 213A  $\text{☞}$  **ROTATED CAPITAL Q**  
• a binding signature mark
- 213B  $\text{Fax}$  **FACSIMILE SIGN**  
• typical forms for this symbol may use lower case, small caps or superscripted letter shapes  
→ 2121  $\text{Tel}$  telephone sign  
 $\approx$  0046 **F** 0041 **A** 0058 **X**
- 213C  $\pi\pi$  **DOUBLE-STRUCK SMALL PI**  
 $\approx$  <font> 03C0  $\pi$  greek small letter pi
- 213D  $\gamma\gamma$  **DOUBLE-STRUCK SMALL GAMMA**  
 $\approx$  <font> 03B3  $\gamma$  greek small letter gamma
- 213E  $\Gamma\Gamma$  **DOUBLE-STRUCK CAPITAL GAMMA**  
 $\approx$  <font> 0393  $\Gamma$  greek capital letter gamma
- 213F  $\Pi\Pi$  **DOUBLE-STRUCK CAPITAL PI**  
 $\approx$  <font> 03A0  $\Pi$  greek capital letter pi

**Double-struck large operator**

- 2140  $\Sigma\Sigma$  **DOUBLE-STRUCK N-ARY SUMMATION**  
 $\approx$  <font> 2211  $\Sigma$  n-ary summation

**Additional letterlike symbols**

- 2141  $\text{Ⓢ}$  **TURNED SANS-SERIF CAPITAL G**  
= game
- 2142  $\text{Ⓣ}$  **TURNED SANS-SERIF CAPITAL L**
- 2143  $\text{Ⓤ}$  **REVERSED SANS-SERIF CAPITAL L**
- 2144  $\text{Ⓦ}$  **TURNED SANS-SERIF CAPITAL Y**

**Double-struck italic math symbols**

*These stylized mathematical symbols are used in some documents to distinguish special mathematical usages from ordinary variables.*

- 2145  $\mathbb{D}$  **DOUBLE-STRUCK ITALIC CAPITAL D**  
 • sometimes used for the differential  
 $\approx$  <font> 0044 **D** latin capital letter d
- 2146  $\mathbb{d}$  **DOUBLE-STRUCK ITALIC SMALL D**  
 • sometimes used for the differential  
 $\approx$  <font> 0064 **d** latin small letter d
- 2147  $\mathbb{e}$  **DOUBLE-STRUCK ITALIC SMALL E**  
 • sometimes used for the natural exponent  
 $\approx$  <font> 0065 **e** latin small letter e
- 2148  $\mathbb{i}$  **DOUBLE-STRUCK ITALIC SMALL I**  
 • sometimes used for the imaginary unit  
 $\approx$  <font> 0069 **i** latin small letter i
- 2149  $\mathbb{j}$  **DOUBLE-STRUCK ITALIC SMALL J**  
 • sometimes used for the imaginary unit  
 $\approx$  <font> 006A **j** latin small letter j

**Additional letterlike symbols**

- 214A  $\mathbb{P}$  **PROPERTY LINE**
- 214B  $\mathbb{R}$  **TURNED AMPERSAND**  
 • used in linear logic  
 $\rightarrow$  0026 **&** ampersand
- 214C  $\mathbb{P}$  **PER SIGN**  
 • abbreviates the word ‘per’
- 214D  $\mathbb{A}\%$  **AKTIESELSKAB**  
 $\rightarrow$  2101 **%** addressed to the subject

**Lowercase Claudian letter**

*Claudian letters in inscriptions are uppercase, but may be transcribed by scholars in lowercase.*

- 214E  $\mathbb{f}$  **TURNED SMALL F**  
 • uppercase is 2132 **F**  
 $\rightarrow$  03DD **F** greek small letter digamma

**Biblical editorial symbol**

- 214F  $\mathbb{S}$  **SYMBOL FOR SAMARITAN SOURCE**

	215	216	217	218
0	$\frac{1}{7}$ 2150	I 2160	i 2170	Ⓓ 2180
1	$\frac{1}{9}$ 2151	II 2161	ii 2171	Ⓔ 2181
2	$\frac{1}{10}$ 2152	III 2162	iii 2172	Ⓕ 2182
3	$\frac{1}{3}$ 2153	IV 2163	iv 2173	Ⓖ 2183
4	$\frac{2}{3}$ 2154	V 2164	v 2174	Ⓙ 2184
5	$\frac{1}{5}$ 2155	VI 2165	vi 2175	Ⓖ 2185
6	$\frac{2}{5}$ 2156	VII 2166	vii 2176	↓ 2186
7	$\frac{3}{5}$ 2157	VIII 2167	viii 2177	Ⓓ 2187
8	$\frac{4}{5}$ 2158	IX 2168	ix 2178	Ⓖ 2188
9	$\frac{1}{6}$ 2159	X 2169	x 2179	$\frac{0}{3}$ 2189
A	$\frac{5}{6}$ 215A	XI 216A	xi 217A	
B	$\frac{1}{8}$ 215B	XII 216B	xii 217B	
C	$\frac{3}{8}$ 215C	L 216C	l 217C	
D	$\frac{5}{8}$ 215D	C 216D	c 217D	
E	$\frac{7}{8}$ 215E	D 216E	d 217E	
F	$\frac{1}{}$ 215F	M 216F	m 217F	

**Fractions**

*Other fraction number forms are found in the Latin-1 Supplement block.*

		→ 00BC ¼ vulgar fraction one quarter
		→ 00BD ½ vulgar fraction one half
		→ 00BE ¾ vulgar fraction three quarters
2150	⅐	VULGAR FRACTION ONE SEVENTH ≈ <fraction> 0031 1 2044/ 0037 7
2151	⅑	VULGAR FRACTION ONE NINTH ≈ <fraction> 0031 1 2044/ 0039 9
2152	⅒	VULGAR FRACTION ONE TENTH ≈ <fraction> 0031 1 2044/ 0031 1 0030 0
2153	⅓	VULGAR FRACTION ONE THIRD ≈ <fraction> 0031 1 2044/ 0033 3
2154	⅔	VULGAR FRACTION TWO THIRDS ≈ <fraction> 0032 2 2044/ 0033 3
2155	⅕	VULGAR FRACTION ONE FIFTH ≈ <fraction> 0031 1 2044/ 0035 5
2156	⅖	VULGAR FRACTION TWO FIFTHS ≈ <fraction> 0032 2 2044/ 0035 5
2157	⅜	VULGAR FRACTION THREE FIFTHS ≈ <fraction> 0033 3 2044/ 0035 5
2158	⅘	VULGAR FRACTION FOUR FIFTHS ≈ <fraction> 0034 4 2044/ 0035 5
2159	⅙	VULGAR FRACTION ONE SIXTH ≈ <fraction> 0031 1 2044/ 0036 6
215A	⅚	VULGAR FRACTION FIVE SIXTHS ≈ <fraction> 0035 5 2044/ 0036 6
215B	⅛	VULGAR FRACTION ONE EIGHTH ≈ <fraction> 0031 1 2044/ 0038 8
215C	⅜	VULGAR FRACTION THREE EIGHTHS ≈ <fraction> 0033 3 2044/ 0038 8
215D	⅝	VULGAR FRACTION FIVE EIGHTHS ≈ <fraction> 0035 5 2044/ 0038 8
215E	⅞	VULGAR FRACTION SEVEN EIGHTHS ≈ <fraction> 0037 7 2044/ 0038 8
215F	⅊	FRACTION NUMERATOR ONE ≈ <fraction> 0031 1 2044/

**Roman numerals**

2160	I	ROMAN NUMERAL ONE ≈ 0049 I latin capital letter i
2161	II	ROMAN NUMERAL TWO ≈ 0049 I 0049 I
2162	III	ROMAN NUMERAL THREE ≈ 0049 I 0049 I 0049 I
2163	IV	ROMAN NUMERAL FOUR ≈ 0049 I 0056 V
2164	V	ROMAN NUMERAL FIVE ≈ 0056 V latin capital letter v
2165	VI	ROMAN NUMERAL SIX ≈ 0056 V 0049 I
2166	VII	ROMAN NUMERAL SEVEN ≈ 0056 V 0049 I 0049 I
2167	VIII	ROMAN NUMERAL EIGHT ≈ 0056 V 0049 I 0049 I 0049 I
2168	IX	ROMAN NUMERAL NINE ≈ 0049 I 0058 X

2169	X	ROMAN NUMERAL TEN ≈ 0058 X latin capital letter x
216A	XI	ROMAN NUMERAL ELEVEN ≈ 0058 X 0049 I
216B	XII	ROMAN NUMERAL TWELVE ≈ 0058 X 0049 I 0049 I
216C	L	ROMAN NUMERAL FIFTY ≈ 004C L latin capital letter l
216D	C	ROMAN NUMERAL ONE HUNDRED ≈ 0043 C latin capital letter c
216E	D	ROMAN NUMERAL FIVE HUNDRED ≈ 0044 D latin capital letter d
216F	M	ROMAN NUMERAL ONE THOUSAND ≈ 004D M latin capital letter m
2170	i	SMALL ROMAN NUMERAL ONE ≈ 0069 i latin small letter i
2171	ii	SMALL ROMAN NUMERAL TWO ≈ 0069 i 0069 i
2172	iii	SMALL ROMAN NUMERAL THREE ≈ 0069 i 0069 i 0069 i
2173	iv	SMALL ROMAN NUMERAL FOUR ≈ 0069 i 0076 v
2174	v	SMALL ROMAN NUMERAL FIVE ≈ 0076 v latin small letter v
2175	vi	SMALL ROMAN NUMERAL SIX ≈ 0076 v 0069 i
2176	vii	SMALL ROMAN NUMERAL SEVEN ≈ 0076 v 0069 i 0069 i
2177	viii	SMALL ROMAN NUMERAL EIGHT ≈ 0076 v 0069 i 0069 i 0069 i
2178	ix	SMALL ROMAN NUMERAL NINE ≈ 0069 i 0078 x
2179	x	SMALL ROMAN NUMERAL TEN ≈ 0078 x latin small letter x
217A	xi	SMALL ROMAN NUMERAL ELEVEN ≈ 0078 x 0069 i
217B	xii	SMALL ROMAN NUMERAL TWELVE ≈ 0078 x 0069 i 0069 i
217C	l	SMALL ROMAN NUMERAL FIFTY ≈ 006C l latin small letter l
217D	c	SMALL ROMAN NUMERAL ONE HUNDRED ≈ 0063 c latin small letter c
217E	d	SMALL ROMAN NUMERAL FIVE HUNDRED ≈ 0064 d latin small letter d
217F	m	SMALL ROMAN NUMERAL ONE THOUSAND ≈ 006D m latin small letter m

**Archaic Roman numerals**

2180	ↀ	ROMAN NUMERAL ONE THOUSAND C D
2181	ↁ	ROMAN NUMERAL FIVE THOUSAND
2182	ↂ	ROMAN NUMERAL TEN THOUSAND
2183	Ↄ	ROMAN NUMERAL REVERSED ONE HUNDRED = apostrophic C = Claudian antisigma • used in combination with C and I to form large numbers • lowercase is 2184 ↄ → 03FD ↄ greek capital reversed lunate sigma symbol

**Lowercase Claudian letter**

*Claudian letters in inscriptions are uppercase, but may be transcribed by scholars in lowercase.*

















































































































- 2184    Ϸ    LATIN SMALL LETTER REVERSED C  
           → 037B Ϸ greek small reversed lunate sigma symbol

**Archaic Roman numerals**

- 2185    ϸ    ROMAN NUMERAL SIX LATE FORM  
           → 03DA ϸ greek letter stigma
- 2186    ↓    ROMAN NUMERAL FIFTY EARLY FORM  
           → 16CE ↓ runic letter z  
           → 2193 ↓ downwards arrow
- 2187    𐍅    ROMAN NUMERAL FIFTY THOUSAND
- 2188    𐍅𐍅    ROMAN NUMERAL ONE HUNDRED THOUSAND

**Fraction**

- 2189    ⅔    VULGAR FRACTION ZERO THIRDS  
           • used in baseball scoring, from ARIB STD B24  
           ≈ <fraction> 0030 0 2044/ 0033 3

	219	21A	21B	21C	21D	21E	21F
0	 2190	 21A0	 21B0	 21C0	 21D0	 21E0	 21F0
1	 2191	 21A1	 21B1	 21C1	 21D1	 21E1	 21F1
2	 2192	 21A2	 21B2	 21C2	 21D2	 21E2	 21F2
3	 2193	 21A3	 21B3	 21C3	 21D3	 21E3	 21F3
4	 2194	 21A4	 21B4	 21C4	 21D4	 21E4	 21F4
5	 2195	 21A5	 21B5	 21C5	 21D5	 21E5	 21F5
6	 2196	 21A6	 21B6	 21C6	 21D6	 21E6	 21F6
7	 2197	 21A7	 21B7	 21C7	 21D7	 21E7	 21F7
8	 2198	 21A8	 21B8	 21C8	 21D8	 21E8	 21F8
9	 2199	 21A9	 21B9	 21C9	 21D9	 21E9	 21F9
A	 219A	 21AA	 21BA	 21CA	 21DA	 21EA	 21FA
B	 219B	 21AB	 21BB	 21CB	 21DB	 21EB	 21FB
C	 219C	 21AC	 21BC	 21CC	 21DC	 21EC	 21FC
D	 219D	 21AD	 21BD	 21CD	 21DD	 21ED	 21FD
E	 219E	 21AE	 21BE	 21CE	 21DE	 21EE	 21FE
F	 219F	 21AF	 21BF	 21CF	 21DF	 21EF	 21FF



**Simple arrows**

- 2190 ← LEFTWARDS ARROW  
→ 20EA ⇐ combining leftwards arrow overlay
- 2191 ↑ UPWARDS ARROW  
• IPA: egressive airflow
- 2192 → RIGHTWARDS ARROW  
= z notation total function
- 2193 ↓ DOWNWARDS ARROW  
• IPA: ingressive airflow
- 2194 ↔ LEFT RIGHT ARROW  
= z notation relation
- 2195 ⇕ UP DOWN ARROW
- 2196 ↖ NORTH WEST ARROW
- 2197 ↗ NORTH EAST ARROW
- 2198 ↘ SOUTH EAST ARROW
- 2199 ↙ SOUTH WEST ARROW

**Arrows with modifications**

- 219A ⇐ LEFTWARDS ARROW WITH STROKE  
• negation of 2190 ←  
≡ 2190 ← 0338 ∅
- 219B ⇨ RIGHTWARDS ARROW WITH STROKE  
• negation of 2192 →  
≡ 2192 → 0338 ∅
- 219C ∼ LEFTWARDS WAVE ARROW  
→ 2B3F ← wave arrow pointing directly left
- 219D ∼ RIGHTWARDS WAVE ARROW
- 219E ⇐ LEFTWARDS TWO HEADED ARROW  
= fast cursor left
- 219F ↑ UPWARDS TWO HEADED ARROW  
= fast cursor up
- 21A0 → RIGHTWARDS TWO HEADED ARROW  
= z notation total surjection  
= fast cursor right
- 21A1 ↓ DOWNWARDS TWO HEADED ARROW  
= form feed  
= fast cursor down
- 21A2 ⇐ LEFTWARDS ARROW WITH TAIL
- 21A3 ⇨ RIGHTWARDS ARROW WITH TAIL  
= z notation total injection
- 21A4 ⇐ LEFTWARDS ARROW FROM BAR
- 21A5 ↑ UPWARDS ARROW FROM BAR
- 21A6 ⇨ RIGHTWARDS ARROW FROM BAR  
= z notation maplet
- 21A7 ↓ DOWNWARDS ARROW FROM BAR  
= depth symbol
- 21A8 ⇕ UP DOWN ARROW WITH BASE
- 21A9 ⇐ LEFTWARDS ARROW WITH HOOK
- 21AA ⇨ RIGHTWARDS ARROW WITH HOOK
- 21AB ⇐ LEFTWARDS ARROW WITH LOOP
- 21AC ⇨ RIGHTWARDS ARROW WITH LOOP
- 21AD ↔ LEFT RIGHT WAVE ARROW
- 21AE ⇐ LEFT RIGHT ARROW WITH STROKE  
• negation of 2194 ↔  
≡ 2194 ↔ 0338 ∅
- 21AF ↯ DOWNWARDS ZIGZAG ARROW  
= electrolysis

**Arrows with bent tips**

*Other arrows with bent tips to complete this set can be found in the Miscellaneous Symbols and Arrows block.*

- 21B0 ↱ UPWARDS ARROW WITH TIP LEFTWARDS
- 21B1 ↲ UPWARDS ARROW WITH TIP RIGHTWARDS
- 21B2 ↴ DOWNWARDS ARROW WITH TIP LEFTWARDS
- 21B3 ↵ DOWNWARDS ARROW WITH TIP RIGHTWARDS

**Keyboard symbols and circle arrows**

- 21B4 ↻ RIGHTWARDS ARROW WITH CORNER DOWNWARDS  
= line feed
- 21B5 ↺ DOWNWARDS ARROW WITH CORNER LEFTWARDS  
• may indicate a carriage return or new line  
→ 23CE ↻ return symbol
- 21B6 ↺ ANTICLOCKWISE TOP SEMICIRCLE ARROW
- 21B7 ↻ CLOCKWISE TOP SEMICIRCLE ARROW
- 21B8 ↶ NORTH WEST ARROW TO LONG BAR  
= home
- 21B9 ⇨ LEFTWARDS ARROW TO BAR OVER RIGHTWARDS ARROW TO BAR  
= tab with shift tab
- 21BA ↺ ANTICLOCKWISE OPEN CIRCLE ARROW
- 21BB ↻ CLOCKWISE OPEN CIRCLE ARROW

**Harpoons**

- 21BC ⇐ LEFTWARDS HARPOON WITH BARB UPWARDS
- 21BD ⇐ LEFTWARDS HARPOON WITH BARB DOWNWARDS
- 21BE ↑ UPWARDS HARPOON WITH BARB RIGHTWARDS
- 21BF ↑ UPWARDS HARPOON WITH BARB LEFTWARDS
- 21C0 → RIGHTWARDS HARPOON WITH BARB UPWARDS
- 21C1 → RIGHTWARDS HARPOON WITH BARB DOWNWARDS
- 21C2 ↓ DOWNWARDS HARPOON WITH BARB RIGHTWARDS
- 21C3 ↓ DOWNWARDS HARPOON WITH BARB LEFTWARDS

**Paired arrows and harpoons**

- 21C4 ⇔ RIGHTWARDS ARROW OVER LEFTWARDS ARROW
- 21C5 ⇕ UPWARDS ARROW LEFTWARDS OF DOWNWARDS ARROW
- 21C6 ⇔ LEFTWARDS ARROW OVER RIGHTWARDS ARROW
- 21C7 ⇐ LEFTWARDS PAIRED ARROWS
- 21C8 ↑ UPWARDS PAIRED ARROWS
- 21C9 ⇨ RIGHTWARDS PAIRED ARROWS
- 21CA ↓ DOWNWARDS PAIRED ARROWS
- 21CB ⇐ LEFTWARDS HARPOON OVER RIGHTWARDS HARPOON
- 21CC ⇨ RIGHTWARDS HARPOON OVER LEFTWARDS HARPOON

**Double arrows**

- 21CD ⇐ LEFTWARDS DOUBLE ARROW WITH STROKE  
• negation of 21D0 ⇐  
≡ 21D0 ⇐ 0338 ∅
- 21CE ⇔ LEFT RIGHT DOUBLE ARROW WITH STROKE  
• negation of 21D4 ⇔  
≡ 21D4 ⇔ 0338 ∅

21CF	⇒	RIGHTWARDS DOUBLE ARROW WITH STROKE
		• negation of 21D2 ⇒ ≡ 21D2 ⇒ 0338 ↯
21D0	⇐	LEFTWARDS DOUBLE ARROW
21D1	⇑	UPWARDS DOUBLE ARROW
21D2	⇒	RIGHTWARDS DOUBLE ARROW
21D3	⇓	DOWNWARDS DOUBLE ARROW
21D4	⇔	LEFT RIGHT DOUBLE ARROW
21D5	⇕	UP DOWN DOUBLE ARROW
21D6	↖	NORTH WEST DOUBLE ARROW
21D7	↗	NORTH EAST DOUBLE ARROW
21D8	↘	SOUTH EAST DOUBLE ARROW
21D9	↙	SOUTH WEST DOUBLE ARROW

**Miscellaneous arrows and keyboard symbols**

21DA	⇐⇐	LEFTWARDS TRIPLE ARROW
21DB	⇒⇒	RIGHTWARDS TRIPLE ARROW
21DC	↔	LEFTWARDS SQUIGGLE ARROW
		→ 2B33 ↔ long leftwards squiggle arrow
21DD	↔	RIGHTWARDS SQUIGGLE ARROW
21DE	⇕	UPWARDS ARROW WITH DOUBLE STROKE
		= page up
21DF	⇓	DOWNWARDS ARROW WITH DOUBLE STROKE
		= page down
21E0	↔	LEFTWARDS DASHED ARROW
21E1	⇑	UPWARDS DASHED ARROW
21E2	↔	RIGHTWARDS DASHED ARROW
21E3	⇓	DOWNWARDS DASHED ARROW
21E4	←	LEFTWARDS ARROW TO BAR
		= leftward tab
21E5	→	RIGHTWARDS ARROW TO BAR
		= rightward tab

**White arrows and keyboard symbols**

21E6	↔	LEFTWARDS WHITE ARROW
		→ 2B00 ↗ north east white arrow
21E7	⇑	UPWARDS WHITE ARROW
		= shift
21E8	⇔	RIGHTWARDS WHITE ARROW
21E9	⇓	DOWNWARDS WHITE ARROW
21EA	⇑	UPWARDS WHITE ARROW FROM BAR
		= caps lock
21EB	⇑	UPWARDS WHITE ARROW ON PEDESTAL
		= level 2 lock
21EC	⇑	UPWARDS WHITE ARROW ON PEDESTAL WITH HORIZONTAL BAR
		= caps lock
21ED	⇑	UPWARDS WHITE ARROW ON PEDESTAL WITH VERTICAL BAR
		= numerics lock
21EE	⇑	UPWARDS WHITE DOUBLE ARROW
		= level 3 select
21EF	⇑	UPWARDS WHITE DOUBLE ARROW ON PEDESTAL
		= level 3 lock
21F0	⇔	RIGHTWARDS WHITE ARROW FROM WALL
		= group lock
21F1	↖	NORTH WEST ARROW TO CORNER
		= home
21F2	↘	SOUTH EAST ARROW TO CORNER
		= end

21F3	⇕	UP DOWN WHITE ARROW
		= scrolling
		→ 2B04 ⇔ left right white arrow

**Miscellaneous arrows**

21F4	⇒	RIGHT ARROW WITH SMALL CIRCLE
		→ 2B30 ⇐ left arrow with small circle
21F5	⇓	DOWNWARDS ARROW LEFTWARDS OF UPWARDS ARROW
21F6	⇐⇐	THREE RIGHTWARDS ARROWS
		→ 2B31 ⇐ three leftwards arrows
21F7	⇐	LEFTWARDS ARROW WITH VERTICAL STROKE
21F8	⇒	RIGHTWARDS ARROW WITH VERTICAL STROKE
		= z notation partial function
21F9	⇐	LEFT RIGHT ARROW WITH VERTICAL STROKE
		= z notation partial relation
21FA	⇐⇐	LEFTWARDS ARROW WITH DOUBLE VERTICAL STROKE
21FB	⇒⇒	RIGHTWARDS ARROW WITH DOUBLE VERTICAL STROKE
		= z notation finite function
21FC	⇐⇐	LEFT RIGHT ARROW WITH DOUBLE VERTICAL STROKE
		= z notation finite relation
21FD	←	LEFTWARDS OPEN-HEADED ARROW
21FE	→	RIGHTWARDS OPEN-HEADED ARROW
21FF	↔	LEFT RIGHT OPEN-HEADED ARROW

2200

## Mathematical Operators

22FF

	220	221	222	223	224	225	226	227	228	229	22A	22B	22C	22D	22E	22F
0	$\nabla$ 2200	$\sqcup$ 2210	$\angle$ 2220	$\mathbb{F}$ 2230	$\wr$ 2240	$\doteq$ 2250	$\neq$ 2260	$\nless$ 2270	$\nless$ 2280	$\sqsubset$ 2290	$\boxtimes$ 22A0	$\rless$ 22B0	$\wedge$ 22C0	$\subseteq$ 22D0	$\nless$ 22E0	$\cdot\cdot$ 22F0
1	$\mathcal{C}$ 2201	$\Sigma$ 2211	$\triangleleft$ 2221	$\mathcal{f}$ 2231	$\nless$ 2241	$\div$ 2251	$\equiv$ 2261	$\nless$ 2271	$\nless$ 2281	$\sqsubseteq$ 2291	$\boxdot$ 22A1	$\rless$ 22B1	$\vee$ 22C1	$\supseteq$ 22D1	$\nless$ 22E1	$\cdot\cdot$ 22F1
2	$\partial$ 2202	$-$ 2212	$\nless$ 2222	$\mathcal{f}$ 2232	$\approx$ 2242	$\doteq$ 2252	$\neq$ 2262	$\nless$ 2272	$\subset$ 2282	$\sqsubseteq$ 2292	$\top$ 22A2	$\nless$ 22B2	$\cap$ 22C2	$\supseteq$ 22D2	$\nless$ 22E2	$\in$ 22F2
3	$\exists$ 2203	$\mp$ 2213	$ $ 2223	$\mathcal{f}$ 2233	$\approx$ 2243	$\doteq$ 2253	$\equiv$ 2263	$\nless$ 2273	$\subset$ 2283	$\sqsubseteq$ 2293	$\top$ 22A3	$\nless$ 22B3	$\cup$ 22C3	$\supseteq$ 22D3	$\nless$ 22E3	$\in$ 22F3
4	$\nless$ 2204	$\dagger$ 2214	$\dagger$ 2224	$\cdot\cdot$ 2234	$\neq$ 2244	$\doteq$ 2254	$\leq$ 2264	$\nless$ 2274	$\nless$ 2284	$\sqsubseteq$ 2294	$\top$ 22A4	$\nless$ 22B4	$\diamond$ 22C4	$\nless$ 22D4	$\nless$ 22E4	$\in$ 22F4
5	$\emptyset$ 2205	$/$ 2215	$\parallel$ 2225	$\cdot\cdot$ 2235	$\approx$ 2245	$\doteq$ 2255	$\geq$ 2265	$\nless$ 2275	$\nless$ 2285	$\oplus$ 2295	$\perp$ 22A5	$\nless$ 22B5	$\cdot$ 22C5	$\#$ 22D5	$\nless$ 22E5	$\in$ 22F5
6	$\Delta$ 2206	$\nless$ 2216	$\nless$ 2226	$:$ 2236	$\nless$ 2246	$\mathbb{H}$ 2256	$\leq$ 2266	$\nless$ 2276	$\subseteq$ 2286	$\ominus$ 2296	$\top$ 22A6	$\nless$ 22B6	$\star$ 22C6	$\nless$ 22D6	$\nless$ 22E6	$\in$ 22F6
7	$\nless$ 2207	$*$ 2217	$\wedge$ 2227	$\cdot\cdot$ 2237	$\nless$ 2247	$\doteq$ 2257	$\geq$ 2267	$\nless$ 2277	$\subseteq$ 2287	$\otimes$ 2297	$\top$ 22A7	$\nless$ 22B7	$*$ 22C7	$\nless$ 22D7	$\nless$ 22E7	$\in$ 22F7
8	$\in$ 2208	$\circ$ 2218	$\vee$ 2228	$\div$ 2238	$\approx$ 2248	$\doteq$ 2258	$\nless$ 2268	$\nless$ 2278	$\nless$ 2288	$\nless$ 2298	$\top$ 22A8	$\nless$ 22B8	$\nless$ 22C8	$\nless$ 22D8	$\nless$ 22E8	$\in$ 22F8
9	$\nless$ 2209	$\cdot$ 2219	$\cap$ 2229	$\div$ 2239	$\nless$ 2249	$\doteq$ 2259	$\nless$ 2269	$\nless$ 2279	$\nless$ 2289	$\nless$ 2299	$\top$ 22A9	$\nless$ 22B9	$\nless$ 22C9	$\nless$ 22D9	$\nless$ 22E9	$\in$ 22F9
A	$\in$ 220A	$\sqrt{\quad}$ 221A	$\cup$ 222A	$\doteq$ 223A	$\approx$ 224A	$\doteq$ 225A	$\nless$ 226A	$\nless$ 227A	$\nless$ 228A	$\nless$ 229A	$\top$ 22AA	$\top$ 22BA	$\nless$ 22CA	$\nless$ 22DA	$\nless$ 22EA	$\in$ 22FA
B	$\supseteq$ 220B	$\sqrt[3]{\quad}$ 221B	$\int$ 222B	$\div$ 223B	$\approx$ 224B	$\doteq$ 225B	$\nless$ 226B	$\nless$ 227B	$\nless$ 228B	$\nless$ 229B	$\top$ 22AB	$\nless$ 22BB	$\nless$ 22CB	$\nless$ 22DB	$\nless$ 22EB	$\in$ 22FB
C	$\nless$ 220C	$\sqrt[4]{\quad}$ 221C	$\iint$ 222C	$\sim$ 223C	$\approx$ 224C	$\doteq$ 225C	$\nless$ 226C	$\nless$ 227C	$\nless$ 228C	$\nless$ 229C	$\top$ 22AC	$\nless$ 22BC	$\nless$ 22CC	$\nless$ 22DC	$\nless$ 22EC	$\in$ 22FC
D	$\supseteq$ 220D	$\propto$ 221D	$\iiint$ 222D	$\sim$ 223D	$\approx$ 224D	$\doteq$ 225D	$\nless$ 226D	$\nless$ 227D	$\nless$ 228D	$\nless$ 229D	$\top$ 22AD	$\nless$ 22BD	$\nless$ 22CD	$\nless$ 22DD	$\nless$ 22ED	$\in$ 22FD
E	$\blacksquare$ 220E	$\infty$ 221E	$\mathcal{f}$ 222E	$\sim$ 223E	$\nless$ 224E	$\doteq$ 225E	$\nless$ 226E	$\nless$ 227E	$\nless$ 228E	$\nless$ 229E	$\top$ 22AE	$\nless$ 22BE	$\nless$ 22CE	$\nless$ 22DE	$\nless$ 22EE	$\in$ 22FE
F	$\prod$ 220F	$\mathcal{L}$ 221F	$\mathbb{F}$ 222F	$\sim$ 223F	$\approx$ 224F	$\doteq$ 225F	$\nless$ 226F	$\nless$ 227F	$\nless$ 228F	$\nless$ 229F	$\top$ 22AF	$\nless$ 22BF	$\nless$ 22CF	$\nless$ 22DF	$\nless$ 22EF	$\in$ 22FF

**Miscellaneous mathematical symbols**

- 2200  $\forall$  **FOR ALL**  
= universal quantifier
- 2201  $\complement$  **COMPLEMENT**  
→ 0297  $\complement$  latin letter stretched c
- 2202  $\partial$  **PARTIAL DIFFERENTIAL**
- 2203  $\exists$  **THERE EXISTS**  
= existential quantifier
- 2204  $\nexists$  **THERE DOES NOT EXIST**  
≡ 2203  $\exists$  0338  $\not\exists$
- 2205  $\emptyset$  **EMPTY SET**  
= null set  
• used in linguistics to indicate a null morpheme or phonological “zero”  
→ 0008  $\emptyset$  latin capital letter o with stroke  
→ 2300  $\varnothing$  diameter sign
- 2206  $\Delta$  **INCREMENT**  
= Laplace operator  
= forward difference  
= symmetric difference (in set theory)  
• other symbols may also be used for symmetric difference  
→ 0394  $\Delta$  greek capital letter delta  
→ 25B3  $\triangle$  white up-pointing triangle
- 2207  $\nabla$  **NABLA**  
= backward difference  
= gradient, del  
• used for Laplacian operator (written with superscript 2)  
→ 25BD  $\nabla$  white down-pointing triangle

**Set membership**

- 2208  $\in$  **ELEMENT OF**
- 2209  $\notin$  **NOT AN ELEMENT OF**  
≡ 2208  $\in$  0338  $\not\in$
- 220A  $\epsilon$  **SMALL ELEMENT OF**  
• originates in math pi fonts; not the straight epsilon  
→ 03F5  $\epsilon$  greek lunate epsilon symbol
- 220B  $\ni$  **CONTAINS AS MEMBER**  
= such that
- 220C  $\nni$  **DOES NOT CONTAIN AS MEMBER**  
≡ 220B  $\ni$  0338  $\not\ni$
- 220D  $\smallni$  **SMALL CONTAINS AS MEMBER**  
→ 03F6  $\smallni$  greek reversed lunate epsilon symbol

**Miscellaneous mathematical symbol**

- 220E  $\blacksquare$  **END OF PROOF**  
= q.e.d.  
→ 2023  $\blacktriangleright$  triangular bullet  
→ 25AE  $\blacksquare$  black vertical rectangle

**N-ary operators**

- 220F  $\prod$  **N-ARY PRODUCT**  
= product sign  
→ 03A0  $\prod$  greek capital letter pi
- 2210  $\coprod$  **N-ARY COPRODUCT**  
= coproduct sign

- 2211  $\sum$  **N-ARY SUMMATION**  
= summation sign  
→ 03A3  $\Sigma$  greek capital letter sigma  
→ 2140  $\sum$  double-struck n-ary summation

**Operators**

- 2212  $-$  **MINUS SIGN**  
→ 002D  $-$  hyphen-minus
- 2213  $\mp$  **MINUS-OR-PLUS SIGN**  
→ 00B1  $\pm$  plus-minus sign
- 2214  $+$  **DOT PLUS**
- 2215  $/$  **DIVISION SLASH**  
• generic division operator  
→ 002F  $/$  solidus  
→ 2044  $/$  fraction slash
- 2216  $\setminus$  **SET MINUS**  
→ 005C  $\setminus$  reverse solidus
- 2217  $*$  **ASTERISK OPERATOR**  
→ 002A  $*$  asterisk
- 2218  $\circ$  **RING OPERATOR**  
= composite function  
= APL jot  
→ 00B0  $^\circ$  degree sign  
→ 0970  $^\circ$  devanagari abbreviation sign  
→ 25E6  $\bullet$  white bullet  
→ 10B39  $^\circ$  avestan abbreviation mark
- 2219  $\cdot$  **BULLET OPERATOR**  
→ 00B7  $\cdot$  middle dot  
→ 2022  $\bullet$  bullet  
→ 2024  $\cdot$  one dot leader
- 221A  $\sqrt{\phantom{x}}$  **SQUARE ROOT**  
= radical sign  
→ 2713  $\checkmark$  check mark
- 221B  $\sqrt[3]{\phantom{x}}$  **CUBE ROOT**  
→ 0606  $\sqrt[3]{\phantom{x}}$  arabic-indic cube root
- 221C  $\sqrt[4]{\phantom{x}}$  **FOURTH ROOT**  
→ 0607  $\sqrt[4]{\phantom{x}}$  arabic-indic fourth root
- 221D  $\propto$  **PROPORTIONAL TO**  
→ 03B1  $\alpha$  greek small letter alpha

**Miscellaneous mathematical symbols**

- 221E  $\infty$  **INFINITY**
- 221F  $\angle$  **RIGHT ANGLE**
- 2220  $\sphericalangle$  **ANGLE**
- 2221  $\measuredangle$  **MEASURED ANGLE**
- 2222  $\frown$  **SPHERICAL ANGLE**  
= angle arc

**Operators**

- 2223  $\mid$  **DIVIDES**  
= such that  
= APL stile  
→ 007C  $\mid$  vertical line  
→ 01C0  $\mid$  latin letter dental click
- 2224  $\nmid$  **DOES NOT DIVIDE**  
≡ 2223  $\mid$  0338  $\not\mid$
- 2225  $\parallel$  **PARALLEL TO**  
→ 01C1  $\parallel$  latin letter lateral click  
→ 2016  $\parallel$  double vertical line

2226  $\nparallel$  NOT PARALLEL TO  
 $\equiv$  2225  $\parallel$  0338  $\nparallel$

**Logical and set operators**

2227  $\wedge$  LOGICAL AND  
 = wedge, conjunction  
 $\rightarrow$  22C0  $\wedge$  n-ary logical and  
 $\rightarrow$  2303  $\wedge$  up arrowhead

2228  $\vee$  LOGICAL OR  
 = vee, disjunction  
 $\rightarrow$  22C1  $\vee$  n-ary logical or  
 $\rightarrow$  2304  $\vee$  down arrowhead

2229  $\cap$  INTERSECTION  
 = cap, hat  
 $\rightarrow$  22C2  $\cap$  n-ary intersection

222A  $\cup$  UNION  
 = cup  
 $\rightarrow$  22C3  $\cup$  n-ary union

**Integrals**

222B  $\int$  INTEGRAL  
 $\rightarrow$  0283  $\int$  latin small letter esh

222C  $\iint$  DOUBLE INTEGRAL  
 $\approx$  222B  $\int$  222B  $\int$

222D  $\iiint$  TRIPLE INTEGRAL  
 $\rightarrow$  2A0C  $\iiint$  quadruple integral operator  
 $\approx$  222B  $\int$  222B  $\int$  222B  $\int$

222E  $\oint$  CONTOUR INTEGRAL  
 $\rightarrow$  2A15  $\oint$  integral around a point operator

222F  $\oiint$  SURFACE INTEGRAL  
 $\approx$  222E  $\oint$  222E  $\oint$

2230  $\iiint$  VOLUME INTEGRAL  
 $\approx$  222E  $\oint$  222E  $\oint$  222E  $\oint$

2231  $\int\limits^{\circlearrowright}$  CLOCKWISE INTEGRAL

2232  $\int\limits^{\circlearrowleft}$  CLOCKWISE CONTOUR INTEGRAL

2233  $\int\limits^{\circlearrowleft}$  ANTICLOCKWISE CONTOUR INTEGRAL  
 • clockwise or anticlockwise arrows do not reverse during layout mirroring

**Miscellaneous mathematical symbols**

2234  $\therefore$  THEREFORE

2235  $\because$  BECAUSE

**Relations**

2236  $:$  RATIO  
 $\rightarrow$  003A  $:$  colon

2237  $::$  PROPORTION

**Operator**

2238  $\dot{-}$  DOT MINUS  
 = saturating subtraction  
 • sometimes claimed as notation for symmetric set difference, but 2206  $\Delta$  is preferred

**Relation**

2239  $\text{--}$  EXCESS

**Operator**

223A  $\text{=}$  GEOMETRIC PROPORTION

**Relations**

223B  $\div$  HOMOTHETIC  
 $\rightarrow$  2A6B  $\div$  tilde operator with rising dots

223C  $\sim$  TILDE OPERATOR  
 = varies with (proportional to)  
 = difference between  
 = similar to  
 = not  
 = cycle  
 = APL tilde  
 $\rightarrow$  007E  $\sim$  tilde  
 $\rightarrow$  00AC  $\neg$  not sign  
 $\rightarrow$  02DC  $\sim$  small tilde

223D  $\smile$  REVERSED TILDE  
 = lazy S  
 • reversed tilde and lazy S are glyph variants

223E  $\approx$  INVERTED LAZY S  
 = most positive

**Miscellaneous mathematical symbol**

223F  $\sim$  SINE WAVE  
 = alternating current

**Operator**

2240  $\wr$  WREATH PRODUCT

**Relations**

2241  $\napprox$  NOT TILDE  
 $\equiv$  223C  $\sim$  0338  $\napprox$

2242  $\approx$  MINUS TILDE

2243  $\approx$  ASYMPTOTICALLY EQUAL TO

2244  $\neq$  NOT ASYMPTOTICALLY EQUAL TO  
 $\equiv$  2243  $\approx$  0338  $\neq$

2245  $\approx$  APPROXIMATELY EQUAL TO

2246  $\approx$  APPROXIMATELY BUT NOT ACTUALLY EQUAL TO

2247  $\neq$  NEITHER APPROXIMATELY NOR ACTUALLY EQUAL TO  
 $\equiv$  2245  $\approx$  0338  $\neq$

2248  $\approx$  ALMOST EQUAL TO  
 = asymptotic to

2249  $\neq$  NOT ALMOST EQUAL TO  
 $\equiv$  2248  $\approx$  0338  $\neq$

224A  $\approx$  ALMOST EQUAL OR EQUAL TO

224B  $\approx$  TRIPLE TILDE

224C  $\approx$  ALL EQUAL TO  
 • reversed tilde and lazy S are glyph variants

224D  $\asymp$  EQUIVALENT TO

224E  $\asymp$  GEOMETRICALLY EQUIVALENT TO

224F  $\asymp$  DIFFERENCE BETWEEN

2250  $\asymp$  APPROACHES THE LIMIT

2251  $\asymp$  GEOMETRICALLY EQUAL TO

2252  $\asymp$  APPROXIMATELY EQUAL TO OR THE IMAGE OF  
 = nearly equals

2253  $\asymp$  IMAGE OF OR APPROXIMATELY EQUAL TO

2254  $\text{=}$  COLON EQUALS

2255  $\text{=}$  EQUALS COLON

2256  $\text{=}$  RING IN EQUAL TO

2257  $\text{=}$  RING EQUAL TO  
 = approximately equal to

2258  $\text{=}$  CORRESPONDS TO

2259	$\triangleq$	ESTIMATES = corresponds to
225A	$\cong$	EQUIANGULAR TO
225B	$\triangleq$	STAR EQUALS
225C	$\triangleq$	DELTA EQUAL TO = equiangular = equal to by definition
225D	$\hat{=}$	EQUAL TO BY DEFINITION
225E	$\equiv$	MEASURED BY
225F	$\stackrel{?}{=}$	QUESTIONED EQUAL TO
2260	$\neq$	NOT EQUAL TO → 003D = equals sign → 01C2 † latin letter alveolar click $\equiv$ 003D = 0338 $\neq$
2261	$\equiv$	IDENTICAL TO
2262	$\not\equiv$	NOT IDENTICAL TO $\equiv$ 2261 $\equiv$ 0338 $\neq$
2263	$\equiv$	STRICTLY EQUIVALENT TO
2264	$\leq$	LESS-THAN OR EQUAL TO
2265	$\geq$	GREATER-THAN OR EQUAL TO
2266	$\leq$	LESS-THAN OVER EQUAL TO
2267	$\geq$	GREATER-THAN OVER EQUAL TO
2268	$\leq$	LESS-THAN BUT NOT EQUAL TO
2269	$\geq$	GREATER-THAN BUT NOT EQUAL TO
226A	$\ll$	MUCH LESS-THAN → 00AB « left-pointing double angle quotation mark
226B	$\gg$	MUCH GREATER-THAN → 00BB » right-pointing double angle quotation mark
226C	$\emptyset$	BETWEEN = plaintiff, quantic
226D	$\ncong$	NOT EQUIVALENT TO $\equiv$ 224D $\ncong$ 0338 $\neq$
226E	$\nless$	NOT LESS-THAN $\equiv$ 003C < 0338 $\neq$
226F	$\ngtr$	NOT GREATER-THAN $\equiv$ 003E > 0338 $\neq$
2270	$\nless$	NEITHER LESS-THAN NOR EQUAL TO $\equiv$ 2264 $\leq$ 0338 $\neq$
2271	$\ngtr$	NEITHER GREATER-THAN NOR EQUAL TO $\equiv$ 2265 $\geq$ 0338 $\neq$
2272	$\leq$	LESS-THAN OR EQUIVALENT TO
2273	$\geq$	GREATER-THAN OR EQUIVALENT TO
2274	$\nless$	NEITHER LESS-THAN NOR EQUIVALENT TO $\equiv$ 2272 $\leq$ 0338 $\neq$
2275	$\ngtr$	NEITHER GREATER-THAN NOR EQUIVALENT TO $\equiv$ 2273 $\geq$ 0338 $\neq$
2276	$\leq$	LESS-THAN OR GREATER-THAN
2277	$\geq$	GREATER-THAN OR LESS-THAN
2278	$\nless$	NEITHER LESS-THAN NOR GREATER-THAN $\equiv$ 2276 $\leq$ 0338 $\neq$
2279	$\ngtr$	NEITHER GREATER-THAN NOR LESS-THAN $\equiv$ 2277 $\geq$ 0338 $\neq$
227A	<	PRECEDES = lower rank than → 2280 $\prec$ precedes under relation

227B	>	SUCCEEDS = higher rank than → 2281 $\succ$ succeeds under relation
227C	$\leq$	PRECEDES OR EQUAL TO
227D	$\geq$	SUCCEEDS OR EQUAL TO
227E	$\leq$	PRECEDES OR EQUIVALENT TO
227F	$\geq$	SUCCEEDS OR EQUIVALENT TO
2280	$\nless$	DOES NOT PRECEDE $\equiv$ 227A < 0338 $\neq$
2281	$\ngtr$	DOES NOT SUCCEED $\equiv$ 227B > 0338 $\neq$
2282	$\subset$	SUBSET OF = included in set → 2E26 $\subset$ left sideways u bracket
2283	$\supset$	SUPERSET OF = includes in set → 2E27 $\supset$ right sideways u bracket
2284	$\nsubset$	NOT A SUBSET OF $\equiv$ 2282 $\subset$ 0338 $\neq$
2285	$\nsupset$	NOT A SUPERSET OF $\equiv$ 2283 $\supset$ 0338 $\neq$
2286	$\subseteq$	SUBSET OF OR EQUAL TO
2287	$\supseteq$	SUPERSET OF OR EQUAL TO
2288	$\nsubseteq$	NEITHER A SUBSET OF NOR EQUAL TO $\equiv$ 2286 $\subseteq$ 0338 $\neq$
2289	$\nsupseteq$	NEITHER A SUPERSET OF NOR EQUAL TO $\equiv$ 2287 $\supseteq$ 0338 $\neq$
228A	$\subsetneq$	SUBSET OF WITH NOT EQUAL TO
228B	$\supsetneq$	SUPERSET OF WITH NOT EQUAL TO

**Operators**

228C	$\cup$	MULTISET
228D	$\cup$	MULTISET MULTIPLICATION → 2A03 $\cup$ n-ary union operator with dot → 2A40 $\cap$ intersection with dot
228E	$\cup$	MULTISET UNION = z notation bag addition → 2A04 $\cup$ n-ary union operator with plus

**Relations**

228F	$\sqsubset$	SQUARE IMAGE OF
2290	$\sqsupset$	SQUARE ORIGINAL OF
2291	$\sqsubseteq$	SQUARE IMAGE OF OR EQUAL TO
2292	$\sqsupseteq$	SQUARE ORIGINAL OF OR EQUAL TO

**Operators**

2293	$\sqcap$	SQUARE CAP → 2A05 $\sqcap$ n-ary square intersection operator
2294	$\sqcup$	SQUARE CUP
2295	$\oplus$	CIRCLED PLUS = direct sum = vector pointing into page → 2641 $\oplus$ earth → 2A01 $\oplus$ n-ary circled plus operator
2296	$\ominus$	CIRCLED MINUS = symmetric difference → 29B5 $\ominus$ circle with horizontal bar

- 2297  $\otimes$  CIRCLED TIMES  
= tensor product  
= vector pointing into page  
→ 2A02  $\otimes$  n-ary circled times operator
- 2298  $\oslash$  CIRCLED DIVISION SLASH
- 2299  $\odot$  CIRCLED DOT OPERATOR  
= direct product  
= vector pointing out of page  
→ 0298  $\odot$  latin letter bilabial click  
→ 2609  $\odot$  sun  
→ 2A00  $\odot$  n-ary circled dot operator
- 229A  $\odot$  CIRCLED RING OPERATOR  
→ 233E  $\odot$  apl functional symbol circle jot  
→ 25CE  $\odot$  bullseye
- 229B  $\circledast$  CIRCLED ASTERISK OPERATOR  
→ 235F  $\circledast$  apl functional symbol circle star
- 229C  $\ominus$  CIRCLED EQUALS
- 229D  $\ominus$  CIRCLED DASH
- 229E  $\boxplus$  SQUARED PLUS
- 229F  $\boxminus$  SQUARED MINUS
- 22A0  $\boxtimes$  SQUARED TIMES  
→ 2612  $\boxtimes$  ballot box with x  
→ 26DD  $\boxtimes$  squared saltire
- 22A1  $\boxdot$  SQUARED DOT OPERATOR
- 22A2  $\dashv$  RIGHT TACK  
= turnstile  
= proves, implies, yields  
= reducible
- 22A3  $\dashv$  LEFT TACK  
= reverse turnstile  
= non-theorem, does not yield

**Miscellaneous mathematical symbols**

- 22A4  $\top$  DOWN TACK  
= top  
→ 2E06  $\top$  raised interpolation marker
- 22A5  $\perp$  UP TACK  
= base, bottom  
→ 27C2  $\perp$  perpendicular

**Relations**

- 22A6  $\vdash$  ASSERTION  
= reduces to
- 22A7  $\models$  MODELS
- 22A8  $\models$  TRUE  
= statement is true, valid  
= is a tautology  
= satisfies  
= results in
- 22A9  $\Vdash$  FORCES
- 22AA  $\equiv$  TRIPLE VERTICAL BAR RIGHT TURNSTILE
- 22AB  $\Vdash$  DOUBLE VERTICAL BAR DOUBLE RIGHT TURNSTILE
- 22AC  $\nVdash$  DOES NOT PROVE  
= 22A2  $\vdash$  0338  $\nVdash$
- 22AD  $\nVdash$  NOT TRUE  
= 22A8  $\models$  0338  $\nVdash$
- 22AE  $\nVdash$  DOES NOT FORCE  
= 22A9  $\Vdash$  0338  $\nVdash$

- 22AF  $\nVdash$  NEGATED DOUBLE VERTICAL BAR DOUBLE RIGHT TURNSTILE  
= 22AB  $\Vdash$  0338  $\nVdash$
- 22B0  $\preceq$  PRECEDES UNDER RELATION  
→ 227A  $<$  precedes
- 22B1  $\succeq$  SUCCEEDS UNDER RELATION  
→ 227B  $>$  succeeds
- 22B2  $\triangleleft$  NORMAL SUBGROUP OF  
→ 25C5  $\triangleleft$  white left-pointing pointer
- 22B3  $\triangleright$  CONTAINS AS NORMAL SUBGROUP  
→ 25BB  $\triangleright$  white right-pointing pointer
- 22B4  $\trianglelefteq$  NORMAL SUBGROUP OF OR EQUAL TO
- 22B5  $\trianglerighteq$  CONTAINS AS NORMAL SUBGROUP OR EQUAL TO
- 22B6  $\leftrightarrow$  ORIGINAL OF
- 22B7  $\leftrightarrow$  IMAGE OF
- 22B8  $\multimap$  MULTIMAP
- 22B9  $\dagger$  HERMITIAN CONJUGATE MATRIX

**Operators**

- 22BA  $\intercal$  INTERCALATE
- 22BB  $\curlywedge$  XOR  
→ 26BA  $\curlywedge$  semisextile
- 22BC  $\curlywedge$  NAND  
→ 2305  $\curlywedge$  projective  
→ 26BB  $\curlywedge$  quincunx
- 22BD  $\nabla$  NOR

**Miscellaneous mathematical symbols**

- 22BE  $\angle$  RIGHT ANGLE WITH ARC
- 22BF  $\triangle$  RIGHT TRIANGLE

**N-ary operators**

- 22C0  $\bigwedge$  N-ARY LOGICAL AND  
• also used to denote the universal quantifier  
→ 2227  $\bigwedge$  logical and
- 22C1  $\bigvee$  N-ARY LOGICAL OR  
• also used to denote the existential quantifier  
→ 2228  $\bigvee$  logical or
- 22C2  $\bigcap$  N-ARY INTERSECTION  
= z notation generalised intersection  
→ 2229  $\bigcap$  intersection
- 22C3  $\bigcup$  N-ARY UNION  
= z notation generalised union  
→ 222A  $\bigcup$  union

**Operators**

- 22C4  $\diamond$  DIAMOND OPERATOR  
→ 25C7  $\diamond$  white diamond  
→ 2B29  $\blacklozenge$  black small diamond
- 22C5  $\cdot$  DOT OPERATOR  
→ 00B7  $\cdot$  middle dot
- 22C6  $\star$  STAR OPERATOR  
• APL  
→ 066D  $\star$  arabic five pointed star  
→ 2605  $\star$  black star  
→ 2B50  $\star$  white medium star
- 22C7  $\ast$  DIVISION TIMES

**Relation**

22C8  $\bowtie$  BOWTIE  
 → 2445  $\bowtie$  ocr bow tie

**Operators**

22C9  $\ltimes$  LEFT NORMAL FACTOR SEMIDIRECT PRODUCT  
 22CA  $\rtimes$  RIGHT NORMAL FACTOR SEMIDIRECT PRODUCT  
 22CB  $\lhd$  LEFT SEMIDIRECT PRODUCT  
 22CC  $\rhd$  RIGHT SEMIDIRECT PRODUCT  
 → 2041  $\wedge$  caret insertion point

**Relation**

22CD  $\approx$  REVERSED TILDE EQUALS

**Logical operators**

22CE  $\vee$  CURLY LOGICAL OR  
 22CF  $\wedge$  CURLY LOGICAL AND

**Relations**

22D0  $\subseteq$  DOUBLE SUBSET  
 22D1  $\supseteq$  DOUBLE SUPERSET

**Operators**

22D2  $\cap$  DOUBLE INTERSECTION  
 22D3  $\cup$  DOUBLE UNION

**Relations**

22D4  $\pitchfork$  PITCHFORK  
 = proper intersection  
 22D5  $\#$  EQUAL AND PARALLEL TO  
 → 2317  $\#$  viewdata square  
 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  $\lesseqgtr$  LESS-THAN EQUAL TO OR GREATER-THAN  
 22DB  $\gtrlessgtr$  GREATER-THAN EQUAL TO OR LESS-THAN  
 22DC  $\lesseqgtr$  EQUAL TO OR LESS-THAN  
 22DD  $\gtrlessgtr$  EQUAL TO OR GREATER-THAN  
 22DE  $\lessgtr$  EQUAL TO OR PRECEDES  
 22DF  $\gtrlessgtr$  EQUAL TO OR SUCCEEDS  
 22E0  $\nlessgtr$  DOES NOT PRECEDE OR EQUAL  
 → 227C  $\lessgtr$  0338  $\nlessgtr$   
 22E1  $\nlessgtr$  DOES NOT SUCCEED OR EQUAL  
 → 227D  $\gtrlessgtr$  0338  $\nlessgtr$   
 22E2  $\nlessgtr$  NOT SQUARE IMAGE OF OR EQUAL TO  
 → 2291  $\nlessgtr$  0338  $\nlessgtr$   
 22E3  $\nlessgtr$  NOT SQUARE ORIGINAL OF OR EQUAL TO  
 → 2292  $\nlessgtr$  0338  $\nlessgtr$   
 22E4  $\nlessgtr$  SQUARE IMAGE OF OR NOT EQUAL TO  
 22E5  $\nlessgtr$  SQUARE ORIGINAL OF OR NOT EQUAL TO  
 22E6  $\nlessgtr$  LESS-THAN BUT NOT EQUIVALENT TO  
 22E7  $\nlessgtr$  GREATER-THAN BUT NOT EQUIVALENT TO  
 22E8  $\nlessgtr$  PRECEDES BUT NOT EQUIVALENT TO  
 22E9  $\nlessgtr$  SUCCEEDS BUT NOT EQUIVALENT TO  
 22EA  $\nlessgtr$  NOT NORMAL SUBGROUP OF  
 → 22B2  $\nlessgtr$  0338  $\nlessgtr$   
 22EB  $\nlessgtr$  DOES NOT CONTAIN AS NORMAL SUBGROUP  
 → 22B3  $\nlessgtr$  0338  $\nlessgtr$   
 22EC  $\nlessgtr$  NOT NORMAL SUBGROUP OF OR EQUAL TO  
 → 22B4  $\nlessgtr$  0338  $\nlessgtr$
























































22ED  $\nlessgtr$  DOES NOT CONTAIN AS NORMAL SUBGROUP OR EQUAL  
 → 22B5  $\nlessgtr$  0338  $\nlessgtr$   
 22EE  $\vdots$  VERTICAL ELLIPSIS  
 • these four ellipses are used for matrix row/column elision  
 → 205D  $\vdots$  tricolon  
 → 2026  $\dots$  horizontal ellipsis  
 → FE19  $\vdots$  presentation form for vertical horizontal ellipsis  
 22EF  $\cdots$  MIDLINE HORIZONTAL ELLIPSIS  
 22F0  $\cdot\cdot\cdot$  UP RIGHT DIAGONAL ELLIPSIS  
 22F1  $\cdot\cdot\cdot$  DOWN RIGHT DIAGONAL ELLIPSIS  
 22F2  $\in$  ELEMENT OF WITH LONG HORIZONTAL STROKE  
 22F3  $\varepsilon$  ELEMENT OF WITH VERTICAL BAR AT END OF HORIZONTAL STROKE  
 22F4  $\varepsilon$  SMALL ELEMENT OF WITH VERTICAL BAR AT END OF HORIZONTAL STROKE  
 22F5  $\varepsilon$  ELEMENT OF WITH DOT ABOVE  
 22F6  $\overline{\varepsilon}$  ELEMENT OF WITH OVERBAR  
 22F7  $\underline{\varepsilon}$  SMALL ELEMENT OF WITH OVERBAR  
 22F8  $\underline{\varepsilon}$  ELEMENT OF WITH UNDERBAR  
 22F9  $\varepsilon$  ELEMENT OF WITH TWO HORIZONTAL STROKES  
 22FA  $\supset$  CONTAINS WITH LONG HORIZONTAL STROKE  
 22FB  $\supset$  CONTAINS WITH VERTICAL BAR AT END OF HORIZONTAL STROKE  
 22FC  $\supset$  SMALL CONTAINS WITH VERTICAL BAR AT END OF HORIZONTAL STROKE  
 22FD  $\supset$  CONTAINS WITH OVERBAR  
 22FE  $\supset$  SMALL CONTAINS WITH OVERBAR  
 22FF  $\in$  Z NOTATION BAG MEMBERSHIP



2300

## Miscellaneous Technical

23FF

	230	231	232	233	234	235	236	237	238	239	23A	23B	23C	23D	23E	23F
0	 2300	 2310	 2320	 2330	 2340	 2350	 2360	 2370	 2380	 2390	 23A0	 23B0	 23C0	 23D0	 23E0	 23F0
1	 2301	 2311	 2321	 2331	 2341	 2351	 2361	 2371	 2381	 2391	 23A1	 23B1	 23C1	 23D1	 23E1	 23F1
2	 2302	 2312	 2322	 2332	 2342	 2352	 2362	 2372	 2382	 2392	 23A2	 23B2	 23C2	 23D2	 23E2	 23F2
3	 2303	 2313	 2323	 2333	 2343	 2353	 2363	 2373	 2383	 2393	 23A3	 23B3	 23C3	 23D3	 23E3	 23F3
4	 2304	 2314	 2324	 2334	 2344	 2354	 2364	 2374	 2384	 2394	 23A4	 23B4	 23C4	 23D4	 23E4	
5	 2305	 2315	 2325	 2335	 2345	 2355	 2365	 2375	 2385	 2395	 23A5	 23B5	 23C5	 23D5	 23E5	
6	 2306	 2316	 2326	 2336	 2346	 2356	 2366	 2376	 2386	 2396	 23A6	 23B6	 23C6	 23D6	 23E6	
7	 2307	 2317	 2327	 2337	 2347	 2357	 2367	 2377	 2387	 2397	 23A7	 23B7	 23C7	 23D7	 23E7	
8	 2308	 2318	 2328	 2338	 2348	 2358	 2368	 2378	 2388	 2398	 23A8	 23B8	 23C8	 23D8	 23E8	
9	 2309	 2319	 2329	 2339	 2349	 2359	 2369	 2379	 2389	 2399	 23A9	 23B9	 23C9	 23D9	 23E9	
A	 230A	 231A	 232A	 233A	 234A	 235A	 236A	 237A	 238A	 239A	 23AA	 23BA	 23CA	 23DA	 23EA	
B	 230B	 231B	 232B	 233B	 234B	 235B	 236B	 237B	 238B	 239B	 23AB	 23BB	 23CB	 23DB	 23EB	
C	 230C	 231C	 232C	 233C	 234C	 235C	 236C	 237C	 238C	 239C	 23AC	 23BC	 23CC	 23DC	 23EC	
D	 230D	 231D	 232D	 233D	 234D	 235D	 236D	 237D	 238D	 239D	 23AD	 23BD	 23CD	 23DD	 23ED	
E	 230E	 231E	 232E	 233E	 234E	 235E	 236E	 237E	 238E	 239E	 23AE	 23BE	 23CE	 23DE	 23EE	
F	 230F	 231F	 232F	 233F	 234F	 235F	 236F	 237F	 238F	 239F	 23AF	 23BF	 23CF	 23DF	 23EF	

**Miscellaneous technical**

- 2300 ∅ DIAMETER SIGN  
→ 2205 ∅ empty set
- 2301 ↯ ELECTRIC ARROW  
• from ISO 2047  
• symbol for End of Transmission
- 2302 ☰ HOUSE
- 2303 ^ UP ARROWHEAD  
→ 005E ^ circumflex accent  
→ 02C4 ^ modifier letter up arrowhead  
→ 2038 ^ caret  
→ 2227 ^ logical and
- 2304 v DOWN ARROWHEAD  
→ 02C5 v modifier letter down arrowhead  
→ 2228 v logical or  
→ 2335 v countersink
- 2305 ⋈ PROJECTIVE  
→ 22BC ⋈ nand
- 2306 ≙ PERSPECTIVE
- 2307 ∽ WAVY LINE  
→ 3030 ∽ wavy dash

**Ceilings and floors**

*These characters are tall and narrow mathematical delimiters, in contrast to the quine corners or half brackets. They are also distinct from CJK corner brackets, which are wide quotation marks.*

- 2308 ⌈ LEFT CEILING  
= APL upstile  
→ 2E22 ⌈ top left half bracket  
→ 300C ⌈ left corner bracket
- 2309 ⌋ RIGHT CEILING  
→ 20E7 ⌋ combining annuity symbol  
→ 2E23 ⌋ top right half bracket
- 230A ⌋ LEFT FLOOR  
= APL downstile  
→ 2E24 ⌋ bottom left half bracket
- 230B ⌋ RIGHT FLOOR  
→ 300D ⌋ right corner bracket  
→ 2E25 ⌋ bottom right half bracket

**Crops**

- 230C ⌞ BOTTOM RIGHT CROP  
• set of four “crop” corners, arranged facing outward
- 230D ⌟ BOTTOM LEFT CROP
- 230E ⌞ TOP RIGHT CROP
- 230F ⌟ TOP LEFT CROP

**Miscellaneous technical**

- 2310 ⌵ REVERSED NOT SIGN  
= beginning of line  
→ 00AC ⌵ not sign
- 2311 ▣ SQUARE LOZENGE  
= Kissen (pillow)  
• used as a command delimiter in some very old computers
- 2312 ⤵ ARC  
→ 25E0 ⤵ upper half circle
- 2313 ⤵ SEGMENT

- 2314 ⤵ SECTOR
- 2315 ⤵ TELEPHONE RECORDER
- 2316 ⤵ POSITION INDICATOR
- 2317 ⤵ VIEWDATA SQUARE  
→ 22D5 ⤵ equal and parallel to
- 2318 ⤵ PLACE OF INTEREST SIGN  
= command key (1.0)
- 2319 ⤵ TURNED NOT SIGN  
= line marker

**GUI icons**

- 231A ⌚ WATCH
- 231B ⌚ HOURGLASS

**Quine corners**

*These form a set of four quine corners, for quincuncial arrangement. They are also used in upper and lower pairs in mathematic, or more rarely in editorial usage as alternatives to half brackets.*

- 231C ⌜ TOP LEFT CORNER  
→ 2E00 ⌜ right angle substitution marker  
→ 2E22 ⌜ top left half bracket
- 231D ⌝ TOP RIGHT CORNER
- 231E ⌞ BOTTOM LEFT CORNER
- 231F ⌟ BOTTOM RIGHT CORNER

**Integral pieces**

- 2320 ⌌ TOP HALF INTEGRAL  
→ 23AE ⌌ integral extension
- 2321 ⌋ BOTTOM HALF INTEGRAL

**Frown and smile**

- 2322 ⌒ FROWN  
→ 2040 ⌒ character tie
- 2323 ⌒ SMILE  
→ 203F ⌒ undertie

**Keyboard symbols**

- 2324 ⌵ UP ARROWHEAD BETWEEN TWO HORIZONTAL BARS  
= enter key
- 2325 ⌵ OPTION KEY
- 2326 ⌵ ERASE TO THE RIGHT  
= delete to the right key
- 2327 ⌵ X IN A RECTANGLE BOX  
= clear key
- 2328 ⌵ KEYBOARD

**Deprecated angle brackets**

*These characters are deprecated and are strongly discouraged for mathematical use because of their canonical equivalence to CJK punctuation.*

- 2329 ⌵ LEFT-POINTING ANGLE BRACKET  
→ 003C ⌵ less-than sign  
→ 2039 ⌵ single left-pointing angle quotation mark  
→ 27E8 ⌵ mathematical left angle bracket  
≡ 3008 ⌵ left angle bracket

## 232A

## Miscellaneous Technical

## 2368

- 232A } RIGHT-POINTING ANGLE BRACKET  
 → 003E > greater-than sign  
 → 203A > single right-pointing angle quotation mark  
 → 27E9 } mathematical right angle bracket  
 ≡ 3009 } right angle bracket

**Keyboard symbol**

- 232B ☒ ERASE TO THE LEFT  
 = delete to the left key

**Chemistry symbol**

- 232C ⬡ BENZENE RING

**Drafting symbols**

- 232D ⌢ CYLINDRICITY  
 232E ⌢ ALL AROUND-PROFILE  
 232F ⌢ SYMMETRY  
 2330 ⌢ TOTAL RUNOUT  
 2331 ⌢ DIMENSION ORIGIN  
 2332 ⌢ CONICAL TAPER  
 2333 ⌢ SLOPE  
 → 25FA ▽ lower left triangle  
 2334 ⌢ COUNTERBORE  
 → 2423 ⌢ open box  
 2335 ⌢ COUNTERSINK  
 → 2304 ⌢ down arrowhead

**APL**

- 2336 ⊞ APL FUNCTIONAL SYMBOL I-BEAM  
 2337 ⊞ APL FUNCTIONAL SYMBOL SQUISH QUAD  
 → 2395 ⊞ apl functional symbol quad  
 → 25AF ⊞ white vertical rectangle  
 → 2AFF ⊞ n-ary white vertical bar  
 2338 ⊞ APL FUNCTIONAL SYMBOL QUAD EQUAL  
 2339 ⊞ APL FUNCTIONAL SYMBOL QUAD DIVIDE  
 233A ⊞ APL FUNCTIONAL SYMBOL QUAD DIAMOND  
 → 26CB ⊞ white diamond in square  
 233B ⊞ APL FUNCTIONAL SYMBOL QUAD JOT  
 → 29C7 ⊞ squared small circle  
 233C ⊞ APL FUNCTIONAL SYMBOL QUAD CIRCLE  
 233D ⊞ APL FUNCTIONAL SYMBOL CIRCLE STILE  
 233E ⊞ APL FUNCTIONAL SYMBOL CIRCLE JOT  
 → 229A ⊞ circled ring operator  
 → 29BE ⊞ circled white bullet  
 233F ⊞ APL FUNCTIONAL SYMBOL SLASH BAR  
 → 1019A ⊞ roman as sign  
 2340 ⊞ APL FUNCTIONAL SYMBOL BACKSLASH BAR  
 → 29F7 ⊞ reverse solidus with horizontal stroke  
 2341 ⊞ APL FUNCTIONAL SYMBOL QUAD SLASH  
 → 29C4 ⊞ squared rising diagonal slash  
 2342 ⊞ APL FUNCTIONAL SYMBOL QUAD BACKSLASH  
 → 29C5 ⊞ squared falling diagonal slash  
 2343 ⊞ APL FUNCTIONAL SYMBOL QUAD LESS-THAN  
 2344 ⊞ APL FUNCTIONAL SYMBOL QUAD GREATER-THAN  
 2345 ⊞ APL FUNCTIONAL SYMBOL LEFTWARDS VANE  
 2346 ⊞ APL FUNCTIONAL SYMBOL RIGHTWARDS VANE  
 2347 ⊞ APL FUNCTIONAL SYMBOL QUAD LEFTWARDS ARROW

- 2348 ⊞ APL FUNCTIONAL SYMBOL QUAD RIGHTWARDS ARROW  
 2349 ⊞ APL FUNCTIONAL SYMBOL CIRCLE BACKSLASH  
 → 2980 ⊞ reversed empty set  
 234A ⊞ APL FUNCTIONAL SYMBOL DOWN TACK UNDERBAR  
 = up tack underbar  
 • preferred naming for APL tack symbols now follows the London Convention in ISO/IEC 13751:2000 (APL Extended)  
 → 22A5 ⊞ up tack  
 234B ⊞ APL FUNCTIONAL SYMBOL DELTA STILE  
 234C ⊞ APL FUNCTIONAL SYMBOL QUAD DOWN CARET  
 234D ⊞ APL FUNCTIONAL SYMBOL QUAD DELTA  
 234E ⊞ APL FUNCTIONAL SYMBOL DOWN TACK JOT  
 = up tack jot  
 → 22A5 ⊞ up tack  
 234F ⊞ APL FUNCTIONAL SYMBOL UPWARDS VANE  
 2350 ⊞ APL FUNCTIONAL SYMBOL QUAD UPWARDS ARROW  
 2351 ⊞ APL FUNCTIONAL SYMBOL UP TACK OVERBAR  
 = down tack overbar  
 → 22A4 ⊞ down tack  
 → 3012 ⊞ postal mark  
 2352 ⊞ APL FUNCTIONAL SYMBOL DEL STILE  
 2353 ⊞ APL FUNCTIONAL SYMBOL QUAD UP CARET  
 2354 ⊞ APL FUNCTIONAL SYMBOL QUAD DEL  
 2355 ⊞ APL FUNCTIONAL SYMBOL UP TACK JOT  
 = down tack jot  
 → 22A4 ⊞ down tack  
 2356 ⊞ APL FUNCTIONAL SYMBOL DOWNWARDS VANE  
 2357 ⊞ APL FUNCTIONAL SYMBOL QUAD DOWNWARDS ARROW  
 2358 ⊞ APL FUNCTIONAL SYMBOL QUOTE UNDERBAR  
 2359 ⊞ APL FUNCTIONAL SYMBOL DELTA UNDERBAR  
 235A ⊞ APL FUNCTIONAL SYMBOL DIAMOND UNDERBAR  
 235B ⊞ APL FUNCTIONAL SYMBOL JOT UNDERBAR  
 235C ⊞ APL FUNCTIONAL SYMBOL CIRCLE UNDERBAR  
 235D ⊞ APL FUNCTIONAL SYMBOL UP SHOE JOT  
 → 2A40 ⊞ intersection with dot  
 235E ⊞ APL FUNCTIONAL SYMBOL QUOTE QUAD  
 235F ⊞ APL FUNCTIONAL SYMBOL CIRCLE STAR  
 → 229B ⊞ circled asterisk operator  
 2360 ⊞ APL FUNCTIONAL SYMBOL QUAD COLON  
 2361 ⊞ APL FUNCTIONAL SYMBOL UP TACK DIAERESIS  
 = down tack diaeresis  
 → 22A4 ⊞ down tack  
 2362 ⊞ APL FUNCTIONAL SYMBOL DEL DIAERESIS  
 2363 ⊞ APL FUNCTIONAL SYMBOL STAR DIAERESIS  
 2364 ⊞ APL FUNCTIONAL SYMBOL JOT DIAERESIS  
 = hoot  
 2365 ⊞ APL FUNCTIONAL SYMBOL CIRCLE DIAERESIS  
 = holler  
 2366 ⊞ APL FUNCTIONAL SYMBOL DOWN SHOE STILE  
 2367 ⊞ APL FUNCTIONAL SYMBOL LEFT SHOE STILE  
 2368 ⊞ APL FUNCTIONAL SYMBOL TILDE DIAERESIS  
 = smirk

2369	➤	APL FUNCTIONAL SYMBOL GREATER-THAN DIAERESIS
236A	̸	APL FUNCTIONAL SYMBOL COMMA BAR
236B	̶	APL FUNCTIONAL SYMBOL DEL TILDE
236C	̸	APL FUNCTIONAL SYMBOL ZILDE
236D	†	APL FUNCTIONAL SYMBOL STILE TILDE
236E	̸	APL FUNCTIONAL SYMBOL SEMICOLON UNDERBAR
236F	≠	APL FUNCTIONAL SYMBOL QUAD NOT EQUAL
2370	?	APL FUNCTIONAL SYMBOL QUAD QUESTION
2371	↙	APL FUNCTIONAL SYMBOL DOWN CARET TILDE
2372	^	APL FUNCTIONAL SYMBOL UP CARET TILDE
2373	ι	APL FUNCTIONAL SYMBOL IOTA
2374	ρ	APL FUNCTIONAL SYMBOL RHO
2375	ω	APL FUNCTIONAL SYMBOL OMEGA
2376	α	APL FUNCTIONAL SYMBOL ALPHA UNDERBAR
2377	ε	APL FUNCTIONAL SYMBOL EPSILON UNDERBAR
2378	ι	APL FUNCTIONAL SYMBOL IOTA UNDERBAR
2379	ω	APL FUNCTIONAL SYMBOL OMEGA UNDERBAR
237A	α	APL FUNCTIONAL SYMBOL ALPHA

**Graphics for control codes**

237B	✓	NOT CHECK MARK
		• from ISO 2047
		• symbol for Negative Acknowledge

**Miscellaneous technical**

237C	⌞	RIGHT ANGLE WITH DOWNWARDS ZIGZAG ARROW
------	---	---

**Graphics for control codes**

237D	⌞	SHOULDERED OPEN BOX
		• from ISO 9995-7
		• keyboard symbol for No Break Space
		→ 2423 ⌞ open box
237E	⌚	BELL SYMBOL
		• from ISO 2047
237F	†	VERTICAL LINE WITH MIDDLE DOT
		• from ISO 2047
		• symbol for End of Medium

**Keyboard symbols from ISO 9995-7**

2380	↵	INSERTION SYMBOL
2381	≡	CONTINUOUS UNDERLINE SYMBOL
2382	≡	DISCONTINUOUS UNDERLINE SYMBOL
2383	≡	EMPHASIS SYMBOL
2384	⌘	COMPOSITION SYMBOL
2385	⌘	WHITE SQUARE WITH CENTRE VERTICAL LINE
		= center
2386	↵	ENTER SYMBOL
2387	↵	ALTERNATIVE KEY SYMBOL
2388	⌘	HELM SYMBOL
		= control
		→ 2638 ⌘ wheel of dharma
2389	⌘	CIRCLED HORIZONTAL BAR WITH NOTCH
		= pause
238A	⌘	CIRCLED TRIANGLE DOWN
		= interrupt, break
238B	⌘	BROKEN CIRCLE WITH NORTHWEST ARROW
		= escape
238C	⌘	UNDO SYMBOL

**Electrotechnical symbols from IR 181**

238D	⌘	MONOSTABLE SYMBOL
238E	⌘	HYSTERESIS SYMBOL
238F	⌘	OPEN-CIRCUIT-OUTPUT H-TYPE SYMBOL
2390	⌘	OPEN-CIRCUIT-OUTPUT L-TYPE SYMBOL
2391	⌘	PASSIVE-PULL-DOWN-OUTPUT SYMBOL
2392	⌘	PASSIVE-PULL-UP-OUTPUT SYMBOL
2393	⌘	DIRECT CURRENT SYMBOL FORM TWO
2394	⌘	SOFTWARE-FUNCTION SYMBOL

**APL**

2395	⌘	APL FUNCTIONAL SYMBOL QUAD
		→ 2337 ⌘ apl functional symbol squish quad
		→ 25AF ⌘ white vertical rectangle

**Keyboard symbols from ISO 9995-7**

2396	⌘	DECIMAL SEPARATOR KEY SYMBOL
2397	⌘	PREVIOUS PAGE
2398	⌘	NEXT PAGE
2399	⌘	PRINT SCREEN SYMBOL
239A	⌘	CLEAR SCREEN SYMBOL
		→ 20E2 ⌘ combining enclosing screen

**Bracket pieces**

239B	{	LEFT PARENTHESIS UPPER HOOK
239C		LEFT PARENTHESIS EXTENSION
239D		LEFT PARENTHESIS LOWER HOOK
239E		RIGHT PARENTHESIS UPPER HOOK
239F	}	RIGHT PARENTHESIS EXTENSION
23A0		RIGHT PARENTHESIS LOWER HOOK
23A1	{	LEFT SQUARE BRACKET UPPER CORNER
23A2		LEFT SQUARE BRACKET EXTENSION
23A3		LEFT SQUARE BRACKET LOWER CORNER
23A4		RIGHT SQUARE BRACKET UPPER CORNER
23A5	}	RIGHT SQUARE BRACKET EXTENSION
23A6		RIGHT SQUARE BRACKET LOWER CORNER
23A7	{	LEFT CURLY BRACKET UPPER HOOK
23A8		LEFT CURLY BRACKET MIDDLE PIECE
23A9		LEFT CURLY BRACKET LOWER HOOK
23AA		CURLY BRACKET EXTENSION
23AB	}	RIGHT CURLY BRACKET UPPER HOOK
23AC		RIGHT CURLY BRACKET MIDDLE PIECE
23AD		RIGHT CURLY BRACKET LOWER HOOK

**Special character extensions**

23AE		INTEGRAL EXTENSION
		→ 2320 ∫ top half integral
		→ 2321 ∫ bottom half integral
23AF	—	HORIZONTAL LINE EXTENSION
		• used for extension of arrows
		→ 23D0   vertical line extension

**Bracket pieces**

23B0		UPPER LEFT OR LOWER RIGHT CURLY BRACKET SECTION
		= left moustache
23B1		UPPER RIGHT OR LOWER LEFT CURLY BRACKET SECTION
		= right moustache



**Summation sign parts**



23B2	∑	SUMMATION TOP
------	---	---------------


23B3  SUMMATION BOTTOM  
→ 2211  $\sum$  n-ary summation

#### Horizontal brackets

*These characters are also used as delimiters of vertical text in non-CJK terminal emulation.*

23B4  TOP SQUARE BRACKET  
→ FE47  presentation form for vertical left square bracket

23B5  BOTTOM SQUARE BRACKET  
→ FE48  presentation form for vertical right square bracket

23B6  BOTTOM SQUARE BRACKET OVER TOP SQUARE BRACKET  
• only used for terminal emulation

#### Terminal graphic characters


23B7  RADICAL SYMBOL BOTTOM

23B8  LEFT VERTICAL BOX LINE

23B9  RIGHT VERTICAL BOX LINE

#### Scan lines for terminal graphics

*The scan line numbers here refer to old, low-resolution technology for terminals, with only 9 scan lines per fixed-size character glyph. Even-numbered scan lines are unified with box-drawing graphics.*



23BA  HORIZONTAL SCAN LINE-1



23BB  HORIZONTAL SCAN LINE-3


23BC  HORIZONTAL SCAN LINE-7


23BD  HORIZONTAL SCAN LINE-9


#### Dentistry notation symbols


23BE  DENTISTRY SYMBOL LIGHT VERTICAL AND TOP RIGHT  
→ 2308  left ceiling

23BF  DENTISTRY SYMBOL LIGHT VERTICAL AND BOTTOM RIGHT  
→ 230A  left floor


23C0  DENTISTRY SYMBOL LIGHT VERTICAL WITH CIRCLE


23C1  DENTISTRY SYMBOL LIGHT DOWN AND HORIZONTAL WITH CIRCLE


23C2  DENTISTRY SYMBOL LIGHT UP AND HORIZONTAL WITH CIRCLE


23C3  DENTISTRY SYMBOL LIGHT VERTICAL WITH TRIANGLE




23C4  DENTISTRY SYMBOL LIGHT DOWN AND HORIZONTAL WITH TRIANGLE

23C5  DENTISTRY SYMBOL LIGHT UP AND HORIZONTAL WITH TRIANGLE


23C6  DENTISTRY SYMBOL LIGHT VERTICAL AND WAVE


23C7  DENTISTRY SYMBOL LIGHT DOWN AND HORIZONTAL WITH WAVE


23C8  DENTISTRY SYMBOL LIGHT UP AND HORIZONTAL WITH WAVE

23C9  DENTISTRY SYMBOL LIGHT DOWN AND HORIZONTAL  
→ 22A4  down tack  
→ 252C  box drawings light down and horizontal


23CA  DENTISTRY SYMBOL LIGHT UP AND HORIZONTAL


→ 22A5  up tack

→ 2534  box drawings light up and horizontal


23CB  DENTISTRY SYMBOL LIGHT VERTICAL AND TOP LEFT

→ 2309  right ceiling

23CC  DENTISTRY SYMBOL LIGHT VERTICAL AND BOTTOM LEFT

→ 230B  right floor

#### Miscellaneous technical


23CD  SQUARE FOOT

#### Keyboard and UI symbols

23CE  RETURN SYMBOL

• may be shown with either hollow or filled glyph

→ 21B5  downwards arrow with corner leftwards

23CF  EJECT SYMBOL

• UI symbol to eject media

#### Special character extension

23D0  VERTICAL LINE EXTENSION

• used for extension of arrows

→ 23AF  horizontal line extension

#### Metrical symbols

23D1  METRICAL BREVE

23D2  METRICAL LONG OVER SHORT


23D3  METRICAL SHORT OVER LONG

23D4  METRICAL LONG OVER TWO SHORTS

23D5  METRICAL TWO SHORTS OVER LONG

23D6  METRICAL TWO SHORTS JOINED

23D7  METRICAL TRISEME

→ 1D242  combining greek musical triseme

23D8  METRICAL TETRASEME


→ 1D243  combining greek musical tetraseme

23D9  METRICAL PENTASEME

→ 1D244  combining greek musical pentaseme

#### Electrotechnical symbols


23DA  EARTH GROUND


23DB  FUSE


#### Horizontal brackets


*These are intended for bracketing terms of mathematical expressions where their glyph extends to accommodate the width of the bracketed expression*

23DC  TOP PARENTHESIS


→ FE35  presentation form for vertical left parenthesis


23DD  BOTTOM PARENTHESIS

→ FE36  presentation form for vertical right parenthesis

23DE  TOP CURLY BRACKET

→ FE37  presentation form for vertical left curly bracket

23DF  BOTTOM CURLY BRACKET

→ FE38  presentation form for vertical right curly bracket

- 23E0  TOP TORTOISE SHELL BRACKET  
     → FE39  presentation form for vertical left  
     tortoise shell bracket
- 23E1  BOTTOM TORTOISE SHELL BRACKET  
     → FE3A  presentation form for vertical right  
     tortoise shell bracket






**Miscellaneous technical**

- 23E2  WHITE TRAPEZIUM













**Chemistry symbol**

- 23E3  BENZENE RING WITH CIRCLE

**Miscellaneous technical**

- 23E4  STRAIGHTNESS
- 23E5  FLATNESS
- 23E6  AC CURRENT
- 23E7  ELECTRICAL INTERSECTION
- 23E8  DECIMAL EXPONENT SYMBOL  
     • Algol-60 token for scientific notation literals

**User interface symbols**

- 23E9  BLACK RIGHT-POINTING DOUBLE TRIANGLE  
     = fast forward  
     = e-AFE
- 23EA  BLACK LEFT-POINTING DOUBLE TRIANGLE  
     = fast rewind  
     = e-AFF
- 23EB  BLACK UP-POINTING DOUBLE TRIANGLE  
     = e-B03
- 23EC  BLACK DOWN-POINTING DOUBLE TRIANGLE  
     = e-B02
- 23ED  BLACK RIGHT-POINTING DOUBLE TRIANGLE  
     WITH VERTICAL BAR
- 23EE  BLACK LEFT-POINTING DOUBLE TRIANGLE  
     WITH VERTICAL BAR
- 23EF  BLACK RIGHT-POINTING TRIANGLE WITH  
     DOUBLE VERTICAL BAR
- 23F0  ALARM CLOCK  
     = e-02A
- 23F1  STOPWATCH
- 23F2  TIMER CLOCK
- 23F3  HOURGLASS WITH FLOWING SAND  
     → 231B  hourglass  
     = e-01B

	240	241	242	243
0	$\text{N}_{\text{UL}}$ 2400	$\text{D}_{\text{LE}}$ 2410	$\text{S}_{\text{P}}$ 2420	
1	$\text{S}_{\text{OH}}$ 2401	$\text{D}_{\text{C}_1}$ 2411	$\text{D}_{\text{EL}}$ 2421	
2	$\text{S}_{\text{TX}}$ 2402	$\text{D}_{\text{C}_2}$ 2412	$\text{b}$ 2422	
3	$\text{E}_{\text{TX}}$ 2403	$\text{D}_{\text{C}_3}$ 2413	$\text{L}$ 2423	
4	$\text{E}_{\text{OT}}$ 2404	$\text{D}_{\text{C}_4}$ 2414	$\text{N}_{\text{L}}$ 2424	
5	$\text{E}_{\text{NQ}}$ 2405	$\text{N}_{\text{AK}}$ 2415	$\text{///}$ 2425	
6	$\text{A}_{\text{CK}}$ 2406	$\text{S}_{\text{YN}}$ 2416	$\text{?}$ 2426	
7	$\text{B}_{\text{EL}}$ 2407	$\text{E}_{\text{TB}}$ 2417		
8	$\text{B}_{\text{S}}$ 2408	$\text{C}_{\text{AN}}$ 2418		
9	$\text{H}_{\text{T}}$ 2409	$\text{E}_{\text{M}}$ 2419		
A	$\text{L}_{\text{F}}$ 240A	$\text{S}_{\text{UB}}$ 241A		
B	$\text{V}_{\text{T}}$ 240B	$\text{E}_{\text{SC}}$ 241B		
C	$\text{F}_{\text{F}}$ 240C	$\text{F}_{\text{S}}$ 241C		
D	$\text{C}_{\text{R}}$ 240D	$\text{G}_{\text{S}}$ 241D		
E	$\text{S}_{\text{S}}$ 240E	$\text{R}_{\text{S}}$ 241E		
F	$\text{S}_{\text{I}}$ 240F	$\text{U}_{\text{S}}$ 241F		

The diagonal lettering glyphs are only exemplary; alternate representations may be, and often are used in the visible display of control codes.

#### Graphic pictures for control codes

2400	$\text{N}_{\text{UL}}$	SYMBOL FOR NULL
2401	$\text{S}_{\text{OH}}$	SYMBOL FOR START OF HEADING
2402	$\text{S}_{\text{TX}}$	SYMBOL FOR START OF TEXT
2403	$\text{E}_{\text{TX}}$	SYMBOL FOR END OF TEXT
2404	$\text{E}_{\text{OT}}$	SYMBOL FOR END OF TRANSMISSION
2405	$\text{E}_{\text{NQ}}$	SYMBOL FOR ENQUIRY
2406	$\text{A}_{\text{CK}}$	SYMBOL FOR ACKNOWLEDGE
2407	$\text{B}_{\text{EL}}$	SYMBOL FOR BELL
2408	$\text{B}_{\text{S}}$	SYMBOL FOR BACKSPACE
2409	$\text{H}_{\text{T}}$	SYMBOL FOR HORIZONTAL TABULATION
240A	$\text{L}_{\text{F}}$	SYMBOL FOR LINE FEED
240B	$\text{V}_{\text{T}}$	SYMBOL FOR VERTICAL TABULATION
240C	$\text{F}_{\text{F}}$	SYMBOL FOR FORM FEED
240D	$\text{C}_{\text{R}}$	SYMBOL FOR CARRIAGE RETURN
240E	$\text{S}_{\text{S}}$	SYMBOL FOR SHIFT OUT
240F	$\text{S}_{\text{I}}$	SYMBOL FOR SHIFT IN
2410	$\text{D}_{\text{LE}}$	SYMBOL FOR DATA LINK ESCAPE
2411	$\text{D}_{\text{C}_1}$	SYMBOL FOR DEVICE CONTROL ONE
2412	$\text{D}_{\text{C}_2}$	SYMBOL FOR DEVICE CONTROL TWO
2413	$\text{D}_{\text{C}_3}$	SYMBOL FOR DEVICE CONTROL THREE
2414	$\text{D}_{\text{C}_4}$	SYMBOL FOR DEVICE CONTROL FOUR
2415	$\text{N}_{\text{AK}}$	SYMBOL FOR NEGATIVE ACKNOWLEDGE
2416	$\text{S}_{\text{YN}}$	SYMBOL FOR SYNCHRONOUS IDLE
2417	$\text{E}_{\text{TB}}$	SYMBOL FOR END OF TRANSMISSION BLOCK
2418	$\text{C}_{\text{AN}}$	SYMBOL FOR CANCEL
2419	$\text{E}_{\text{M}}$	SYMBOL FOR END OF MEDIUM
241A	$\text{S}_{\text{UB}}$	SYMBOL FOR SUBSTITUTE
241B	$\text{E}_{\text{SC}}$	SYMBOL FOR ESCAPE
241C	$\text{F}_{\text{S}}$	SYMBOL FOR FILE SEPARATOR
241D	$\text{G}_{\text{S}}$	SYMBOL FOR GROUP SEPARATOR
241E	$\text{R}_{\text{S}}$	SYMBOL FOR RECORD SEPARATOR
241F	$\text{U}_{\text{S}}$	SYMBOL FOR UNIT SEPARATOR
2420	$\text{S}_{\text{P}}$	SYMBOL FOR SPACE
2421	$\text{D}_{\text{EL}}$	SYMBOL FOR DELETE

#### Specific symbols for space

2422	$\text{b}$	BLANK SYMBOL
		• graphic for space
		→ 0180 $\text{b}$ latin small letter b with stroke
2423	$\text{L}$	OPEN BOX
		• graphic for space
		→ 2334 $\text{L}$ counterbore

#### Graphic picture for control code












2424	$\text{N}_{\text{L}}$	SYMBOL FOR NEWLINE
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










#### Keyboard symbol

2425	$\text{///}$	SYMBOL FOR DELETE FORM TWO
		• from ISO 9995-7
		• keyboard symbol for undoable delete

#### Specific symbol for control code

2426	$\text{?}$	SYMBOL FOR SUBSTITUTE FORM TWO
		• from ISO 2047
		→ 061F $\text{?}$ arabic question mark

	244	245
0	 2440	
1	 2441	
2	 2442	
3	 2443	
4	 2444	
5	 2445	
6	 2446	
7	 2447	
8	 2448	
9	 2449	
A	 244A	
B		
C		
D		
E		
F		

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



	246	247	248	249	24A	24B	24C	24D	24E	24F
0	① 2460	⑰ 2470	(13) 2480	9. 2490	(e) 24A0	(u) 24B0	Ⓚ 24C0	ⓐ 24D0	Ⓚ 24E0	⑰ 24F0
1	② 2461	⑱ 2471	(14) 2481	10. 2491	(f) 24A1	(v) 24B1	Ⓛ 24C1	ⓑ 24D1	Ⓡ 24E1	⑱ 24F1
2	③ 2462	⑲ 2472	(15) 2482	11. 2492	(g) 24A2	(w) 24B2	Ⓜ 24C2	ⓒ 24D2	Ⓢ 24E2	⑲ 24F2
3	④ 2463	⓪ 2473	(16) 2483	12. 2493	(h) 24A3	(x) 24B3	Ⓝ 24C3	ⓓ 24D3	Ⓣ 24E3	⑲ 24F3
4	⑤ 2464	(1) 2474	(17) 2484	13. 2494	(i) 24A4	(y) 24B4	Ⓞ 24C4	ⓔ 24D4	Ⓤ 24E4	⓪ 24F4
5	⑥ 2465	(2) 2475	(18) 2485	14. 2495	(j) 24A5	(z) 24B5	Ⓟ 24C5	ⓕ 24D5	Ⓥ 24E5	① 24F5
6	⑦ 2466	(3) 2476	(19) 2486	15. 2496	(k) 24A6	Ⓐ 24B6	Ⓠ 24C6	ⓖ 24D6	Ⓦ 24E6	② 24F6
7	⑧ 2467	(4) 2477	(20) 2487	16. 2497	(l) 24A7	Ⓑ 24B7	Ⓡ 24C7	ⓗ 24D7	Ⓧ 24E7	③ 24F7
8	⑨ 2468	(5) 2478	1. 2488	17. 2498	(m) 24A8	Ⓒ 24B8	Ⓢ 24C8	Ⓣ 24D8	Ⓨ 24E8	④ 24F8
9	⑩ 2469	(6) 2479	2. 2489	18. 2499	(n) 24A9	Ⓓ 24B9	Ⓣ 24C9	Ⓤ 24D9	Ⓩ 24E9	⑤ 24F9
A	⑪ 246A	(7) 247A	3. 248A	19. 249A	(o) 24AA	Ⓔ 24BA	Ⓤ 24CA	Ⓚ 24DA	ⓐ 24EA	⑥ 24FA
B	⑫ 246B	(8) 247B	4. 248B	20. 249B	(p) 24AB	Ⓕ 24BB	Ⓡ 24CB	Ⓛ 24DB	⑪ 24EB	⑦ 24FB
C	⑬ 246C	(9) 247C	5. 248C	(a) 249C	(q) 24AC	Ⓖ 24BC	Ⓦ 24CC	Ⓜ 24DC	⑫ 24EC	⑧ 24FC
D	⑭ 246D	(10) 247D	6. 248D	(b) 249D	(r) 24AD	Ⓗ 24BD	Ⓧ 24CD	Ⓝ 24DD	⑬ 24ED	⑨ 24FD
E	⑮ 246E	(11) 247E	7. 248E	(c) 249E	(s) 24AE	Ⓘ 24BE	Ⓨ 24CE	ⓐ 24DE	⑭ 24EE	⑩ 24FE
F	⑯ 246F	(12) 247F	8. 248F	(d) 249F	(t) 24AF	Ⓙ 24BF	Ⓩ 24CF	Ⓟ 24DF	⑮ 24EF	① 24FF

**Circled numbers**

2460	①	CIRCLED DIGIT ONE ≈ <circle> 0031 1
2461	②	CIRCLED DIGIT TWO ≈ <circle> 0032 2
2462	③	CIRCLED DIGIT THREE ≈ <circle> 0033 3
2463	④	CIRCLED DIGIT FOUR ≈ <circle> 0034 4
2464	⑤	CIRCLED DIGIT FIVE ≈ <circle> 0035 5
2465	⑥	CIRCLED DIGIT SIX ≈ <circle> 0036 6
2466	⑦	CIRCLED DIGIT SEVEN ≈ <circle> 0037 7
2467	⑧	CIRCLED DIGIT EIGHT ≈ <circle> 0038 8
2468	⑨	CIRCLED DIGIT NINE ≈ <circle> 0039 9
2469	⑩	CIRCLED NUMBER TEN ≈ <circle> 0031 1 0030 0
246A	⑪	CIRCLED NUMBER ELEVEN ≈ <circle> 0031 1 0031 1
246B	⑫	CIRCLED NUMBER TWELVE ≈ <circle> 0031 1 0032 2
246C	⑬	CIRCLED NUMBER THIRTEEN ≈ <circle> 0031 1 0033 3
246D	⑭	CIRCLED NUMBER FOURTEEN ≈ <circle> 0031 1 0034 4
246E	⑮	CIRCLED NUMBER FIFTEEN ≈ <circle> 0031 1 0035 5
246F	⑯	CIRCLED NUMBER SIXTEEN ≈ <circle> 0031 1 0036 6
2470	⑰	CIRCLED NUMBER SEVENTEEN ≈ <circle> 0031 1 0037 7
2471	⑱	CIRCLED NUMBER EIGHTEEN ≈ <circle> 0031 1 0038 8
2472	⑲	CIRCLED NUMBER NINETEEN ≈ <circle> 0031 1 0039 9
2473	⑳	CIRCLED NUMBER TWENTY ≈ <circle> 0032 2 0030 0

**Parenthesized numbers**

2474	(1)	PARENTHESIZED DIGIT ONE ≈ 0028 ( 0031 1 0029 )
2475	(2)	PARENTHESIZED DIGIT TWO ≈ 0028 ( 0032 2 0029 )
2476	(3)	PARENTHESIZED DIGIT THREE ≈ 0028 ( 0033 3 0029 )
2477	(4)	PARENTHESIZED DIGIT FOUR ≈ 0028 ( 0034 4 0029 )
2478	(5)	PARENTHESIZED DIGIT FIVE ≈ 0028 ( 0035 5 0029 )
2479	(6)	PARENTHESIZED DIGIT SIX ≈ 0028 ( 0036 6 0029 )
247A	(7)	PARENTHESIZED DIGIT SEVEN ≈ 0028 ( 0037 7 0029 )

247B	(8)	PARENTHESIZED DIGIT EIGHT ≈ 0028 ( 0038 8 0029 )
247C	(9)	PARENTHESIZED DIGIT NINE ≈ 0028 ( 0039 9 0029 )
247D	(10)	PARENTHESIZED NUMBER TEN ≈ 0028 ( 0031 1 0030 0 0029 )
247E	(11)	PARENTHESIZED NUMBER ELEVEN ≈ 0028 ( 0031 1 0031 1 0029 )
247F	(12)	PARENTHESIZED NUMBER TWELVE ≈ 0028 ( 0031 1 0032 2 0029 )
2480	(13)	PARENTHESIZED NUMBER THIRTEEN ≈ 0028 ( 0031 1 0033 3 0029 )
2481	(14)	PARENTHESIZED NUMBER FOURTEEN ≈ 0028 ( 0031 1 0034 4 0029 )
2482	(15)	PARENTHESIZED NUMBER FIFTEEN ≈ 0028 ( 0031 1 0035 5 0029 )
2483	(16)	PARENTHESIZED NUMBER SIXTEEN ≈ 0028 ( 0031 1 0036 6 0029 )
2484	(17)	PARENTHESIZED NUMBER SEVENTEEN ≈ 0028 ( 0031 1 0037 7 0029 )
2485	(18)	PARENTHESIZED NUMBER EIGHTEEN ≈ 0028 ( 0031 1 0038 8 0029 )
2486	(19)	PARENTHESIZED NUMBER NINETEEN ≈ 0028 ( 0031 1 0039 9 0029 )
2487	(20)	PARENTHESIZED NUMBER TWENTY ≈ 0028 ( 0032 2 0030 0 0029 )

**Numbers period**

*See also similar symbols starting at U+1F100.*

2488	1.	DIGIT ONE FULL STOP ≈ 0031 1 002E .
2489	2.	DIGIT TWO FULL STOP ≈ 0032 2 002E .
248A	3.	DIGIT THREE FULL STOP ≈ 0033 3 002E .
248B	4.	DIGIT FOUR FULL STOP ≈ 0034 4 002E .
248C	5.	DIGIT FIVE FULL STOP ≈ 0035 5 002E .
248D	6.	DIGIT SIX FULL STOP ≈ 0036 6 002E .
248E	7.	DIGIT SEVEN FULL STOP ≈ 0037 7 002E .
248F	8.	DIGIT EIGHT FULL STOP ≈ 0038 8 002E .
2490	9.	DIGIT NINE FULL STOP ≈ 0039 9 002E .
2491	10.	NUMBER TEN FULL STOP ≈ 0031 1 0030 0 002E .
2492	11.	NUMBER ELEVEN FULL STOP ≈ 0031 1 0031 1 002E .
2493	12.	NUMBER TWELVE FULL STOP ≈ 0031 1 0032 2 002E .
2494	13.	NUMBER THIRTEEN FULL STOP ≈ 0031 1 0033 3 002E .
2495	14.	NUMBER FOURTEEN FULL STOP ≈ 0031 1 0034 4 002E .

- 2496 15. NUMBER FIFTEEN FULL STOP  
≈ 0031 1 0035 5 002E .
- 2497 16. NUMBER SIXTEEN FULL STOP  
≈ 0031 1 0036 6 002E .
- 2498 17. NUMBER SEVENTEEN FULL STOP  
≈ 0031 1 0037 7 002E .
- 2499 18. NUMBER EIGHTEEN FULL STOP  
≈ 0031 1 0038 8 002E .
- 249A 19. NUMBER NINETEEN FULL STOP  
≈ 0031 1 0039 9 002E .
- 249B 20. NUMBER TWENTY FULL STOP  
≈ 0032 2 0030 0 002E .

**Parenthesized Latin letters**

*See also the uppercase set starting at U+1F100.*

- 249C (a) PARENTHESIZED LATIN SMALL LETTER A  
≈ 0028 ( 0061 a 0029 )
- 249D (b) PARENTHESIZED LATIN SMALL LETTER B  
≈ 0028 ( 0062 b 0029 )
- 249E (c) PARENTHESIZED LATIN SMALL LETTER C  
≈ 0028 ( 0063 c 0029 )
- 249F (d) PARENTHESIZED LATIN SMALL LETTER D  
≈ 0028 ( 0064 d 0029 )
- 24A0 (e) PARENTHESIZED LATIN SMALL LETTER E  
≈ 0028 ( 0065 e 0029 )
- 24A1 (f) PARENTHESIZED LATIN SMALL LETTER F  
≈ 0028 ( 0066 f 0029 )
- 24A2 (g) PARENTHESIZED LATIN SMALL LETTER G  
≈ 0028 ( 0067 g 0029 )
- 24A3 (h) PARENTHESIZED LATIN SMALL LETTER H  
≈ 0028 ( 0068 h 0029 )
- 24A4 (i) PARENTHESIZED LATIN SMALL LETTER I  
≈ 0028 ( 0069 i 0029 )
- 24A5 (j) PARENTHESIZED LATIN SMALL LETTER J  
≈ 0028 ( 006A j 0029 )
- 24A6 (k) PARENTHESIZED LATIN SMALL LETTER K  
≈ 0028 ( 006B k 0029 )
- 24A7 (l) PARENTHESIZED LATIN SMALL LETTER L  
≈ 0028 ( 006C l 0029 )
- 24A8 (m) PARENTHESIZED LATIN SMALL LETTER M  
≈ 0028 ( 006D m 0029 )
- 24A9 (n) PARENTHESIZED LATIN SMALL LETTER N  
≈ 0028 ( 006E n 0029 )
- 24AA (o) PARENTHESIZED LATIN SMALL LETTER O  
≈ 0028 ( 006F o 0029 )
- 24AB (p) PARENTHESIZED LATIN SMALL LETTER P  
≈ 0028 ( 0070 p 0029 )
- 24AC (q) PARENTHESIZED LATIN SMALL LETTER Q  
≈ 0028 ( 0071 q 0029 )
- 24AD (r) PARENTHESIZED LATIN SMALL LETTER R  
≈ 0028 ( 0072 r 0029 )
- 24AE (s) PARENTHESIZED LATIN SMALL LETTER S  
≈ 0028 ( 0073 s 0029 )
- 24AF (t) PARENTHESIZED LATIN SMALL LETTER T  
≈ 0028 ( 0074 t 0029 )
- 24B0 (u) PARENTHESIZED LATIN SMALL LETTER U  
≈ 0028 ( 0075 u 0029 )

- 24B1 (v) PARENTHESIZED LATIN SMALL LETTER V  
≈ 0028 ( 0076 v 0029 )
- 24B2 (w) PARENTHESIZED LATIN SMALL LETTER W  
≈ 0028 ( 0077 w 0029 )
- 24B3 (x) PARENTHESIZED LATIN SMALL LETTER X  
≈ 0028 ( 0078 x 0029 )
- 24B4 (y) PARENTHESIZED LATIN SMALL LETTER Y  
≈ 0028 ( 0079 y 0029 )
- 24B5 (z) PARENTHESIZED LATIN SMALL LETTER Z  
≈ 0028 ( 007A z 0029 )

**Circled Latin letters**

- 24B6 (A) CIRCLED LATIN CAPITAL LETTER A  
≈ <circle> 0041 A
- 24B7 (B) CIRCLED LATIN CAPITAL LETTER B  
≈ <circle> 0042 B
- 24B8 (C) CIRCLED LATIN CAPITAL LETTER C  
→ 00A9 © copyright sign  
≈ <circle> 0043 C
- 24B9 (D) CIRCLED LATIN CAPITAL LETTER D  
≈ <circle> 0044 D
- 24BA (E) CIRCLED LATIN CAPITAL LETTER E  
≈ <circle> 0045 E
- 24BB (F) CIRCLED LATIN CAPITAL LETTER F  
≈ <circle> 0046 F
- 24BC (G) CIRCLED LATIN CAPITAL LETTER G  
≈ <circle> 0047 G
- 24BD (H) CIRCLED LATIN CAPITAL LETTER H  
≈ <circle> 0048 H
- 24BE (I) CIRCLED LATIN CAPITAL LETTER I  
≈ <circle> 0049 I
- 24BF (J) CIRCLED LATIN CAPITAL LETTER J  
≈ <circle> 004A J
- 24C0 (K) CIRCLED LATIN CAPITAL LETTER K  
≈ <circle> 004B K
- 24C1 (L) CIRCLED LATIN CAPITAL LETTER L  
≈ <circle> 004C L
- 24C2 (M) CIRCLED LATIN CAPITAL LETTER M  
≈ <circle> 004D M
- 24C3 (N) CIRCLED LATIN CAPITAL LETTER N  
≈ <circle> 004E N
- 24C4 (O) CIRCLED LATIN CAPITAL LETTER O  
≈ <circle> 004F O
- 24C5 (P) CIRCLED LATIN CAPITAL LETTER P  
→ 2117 ® sound recording copyright  
≈ <circle> 0050 P
- 24C6 (Q) CIRCLED LATIN CAPITAL LETTER Q  
≈ <circle> 0051 Q
- 24C7 (R) CIRCLED LATIN CAPITAL LETTER R  
→ 00AE ® registered sign  
≈ <circle> 0052 R
- 24C8 (S) CIRCLED LATIN CAPITAL LETTER S  
≈ <circle> 0053 S
- 24C9 (T) CIRCLED LATIN CAPITAL LETTER T  
≈ <circle> 0054 T
- 24CA (U) CIRCLED LATIN CAPITAL LETTER U  
≈ <circle> 0055 U

24CB	Ⓥ	CIRCLED LATIN CAPITAL LETTER V ≈ <circle> 0056 V
24CC	Ⓦ	CIRCLED LATIN CAPITAL LETTER W ≈ <circle> 0057 W
24CD	Ⓧ	CIRCLED LATIN CAPITAL LETTER X ≈ <circle> 0058 X
24CE	Ⓨ	CIRCLED LATIN CAPITAL LETTER Y ≈ <circle> 0059 Y
24CF	Ⓩ	CIRCLED LATIN CAPITAL LETTER Z ≈ <circle> 005A Z
24D0	ⓐ	CIRCLED LATIN SMALL LETTER A ≈ <circle> 0061 a
24D1	ⓑ	CIRCLED LATIN SMALL LETTER B ≈ <circle> 0062 b
24D2	ⓒ	CIRCLED LATIN SMALL LETTER C ≈ <circle> 0063 c
24D3	ⓓ	CIRCLED LATIN SMALL LETTER D ≈ <circle> 0064 d
24D4	ⓔ	CIRCLED LATIN SMALL LETTER E ≈ <circle> 0065 e
24D5	ⓕ	CIRCLED LATIN SMALL LETTER F ≈ <circle> 0066 f
24D6	ⓖ	CIRCLED LATIN SMALL LETTER G ≈ <circle> 0067 g
24D7	ⓗ	CIRCLED LATIN SMALL LETTER H ≈ <circle> 0068 h
24D8	Ⓢ	CIRCLED LATIN SMALL LETTER I ≈ <circle> 0069 i
24D9	Ⓤ	CIRCLED LATIN SMALL LETTER J ≈ <circle> 006A j
24DA	Ⓚ	CIRCLED LATIN SMALL LETTER K ≈ <circle> 006B k
24DB	Ⓛ	CIRCLED LATIN SMALL LETTER L ≈ <circle> 006C l
24DC	Ⓜ	CIRCLED LATIN SMALL LETTER M ≈ <circle> 006D m
24DD	Ⓝ	CIRCLED LATIN SMALL LETTER N ≈ <circle> 006E n
24DE	Ⓞ	CIRCLED LATIN SMALL LETTER O ≈ <circle> 006F o
24DF	Ⓟ	CIRCLED LATIN SMALL LETTER P ≈ <circle> 0070 p
24E0	Ⓠ	CIRCLED LATIN SMALL LETTER Q ≈ <circle> 0071 q
24E1	Ⓡ	CIRCLED LATIN SMALL LETTER R ≈ <circle> 0072 r
24E2	Ⓢ	CIRCLED LATIN SMALL LETTER S ≈ <circle> 0073 s
24E3	Ⓣ	CIRCLED LATIN SMALL LETTER T ≈ <circle> 0074 t
24E4	Ⓤ	CIRCLED LATIN SMALL LETTER U ≈ <circle> 0075 u
24E5	Ⓡ	CIRCLED LATIN SMALL LETTER V ≈ <circle> 0076 v
24E6	Ⓦ	CIRCLED LATIN SMALL LETTER W ≈ <circle> 0077 w

24E7	Ⓧ	CIRCLED LATIN SMALL LETTER X ≈ <circle> 0078 x
24E8	Ⓨ	CIRCLED LATIN SMALL LETTER Y ≈ <circle> 0079 y
24E9	Ⓩ	CIRCLED LATIN SMALL LETTER Z ≈ <circle> 007A z

**Additional circled number**

24EA	⓪	CIRCLED DIGIT ZERO ≈ <circle> 0030 0
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**White on black circled numbers**

































































































































24EB	⓫	NEGATIVE CIRCLED NUMBER ELEVEN
24EC	⓬	NEGATIVE CIRCLED NUMBER TWELVE
24ED	⓭	NEGATIVE CIRCLED NUMBER THIRTEEN
24EE	⓮	NEGATIVE CIRCLED NUMBER FOURTEEN
24EF	⓯	NEGATIVE CIRCLED NUMBER FIFTEEN
24F0	⓰	NEGATIVE CIRCLED NUMBER SIXTEEN
24F1	⓱	NEGATIVE CIRCLED NUMBER SEVENTEEN
24F2	⓲	NEGATIVE CIRCLED NUMBER EIGHTEEN
24F3	⓳	NEGATIVE CIRCLED NUMBER NINETEEN
24F4	⓴	NEGATIVE CIRCLED NUMBER TWENTY

**Double circled numbers**

24F5	⓪	DOUBLE CIRCLED DIGIT ONE
24F6	⓫	DOUBLE CIRCLED DIGIT TWO
24F7	⓬	DOUBLE CIRCLED DIGIT THREE
24F8	⓭	DOUBLE CIRCLED DIGIT FOUR
24F9	⓮	DOUBLE CIRCLED DIGIT FIVE
24FA	⓯	DOUBLE CIRCLED DIGIT SIX
24FB	⓰	DOUBLE CIRCLED DIGIT SEVEN
24FC	⓱	DOUBLE CIRCLED DIGIT EIGHT
24FD	⓲	DOUBLE CIRCLED DIGIT NINE
24FE	⓳	DOUBLE CIRCLED NUMBER TEN

**Additional white on black circled number**

24FF	⓪	NEGATIVE CIRCLED DIGIT ZERO → 2776 ⓪ dingbat negative circled digit one
------	---	--

	250	251	252	253	254	255	256	257
0	 2500	 2510	 2520	 2530	 2540	 2550	 2560	 2570
1	 2501	 2511	 2521	 2531	 2541	 2551	 2561	 2571
2	 2502	 2512	 2522	 2532	 2542	 2552	 2562	 2572
3	 2503	 2513	 2523	 2533	 2543	 2553	 2563	 2573
4	 2504	 2514	 2524	 2534	 2544	 2554	 2564	 2574
5	 2505	 2515	 2525	 2535	 2545	 2555	 2565	 2575
6	 2506	 2516	 2526	 2536	 2546	 2556	 2566	 2576
7	 2507	 2517	 2527	 2537	 2547	 2557	 2567	 2577
8	 2508	 2518	 2528	 2538	 2548	 2558	 2568	 2578
9	 2509	 2519	 2529	 2539	 2549	 2559	 2569	 2579
A	 250A	 251A	 252A	 253A	 254A	 255A	 256A	 257A
B	 250B	 251B	 252B	 253B	 254B	 255B	 256B	 257B
C	 250C	 251C	 252C	 253C	 254C	 255C	 256C	 257C
D	 250D	 251D	 252D	 253D	 254D	 255D	 256D	 257D
E	 250E	 251E	 252E	 253E	 254E	 255E	 256E	 257E
F	 250F	 251F	 252F	 253F	 254F	 255F	 256F	 257F

**Form and chart components**

































2500	—	BOX DRAWINGS LIGHT HORIZONTAL = Videotex Mosaic DG 15	2524	⊥	BOX DRAWINGS LIGHT VERTICAL AND LEFT = Videotex Mosaic DG 21
2501	—	BOX DRAWINGS HEAVY HORIZONTAL	2525	⊥	BOX DRAWINGS VERTICAL LIGHT AND LEFT HEAVY = Videotex Mosaic DG 04
2502		BOX DRAWINGS LIGHT VERTICAL = Videotex Mosaic DG 14	2526	⊥	BOX DRAWINGS UP HEAVY AND LEFT DOWN LIGHT
2503		BOX DRAWINGS HEAVY VERTICAL	2527	⊥	BOX DRAWINGS DOWN HEAVY AND LEFT UP LIGHT
2504	---	BOX DRAWINGS LIGHT TRIPLE DASH HORIZONTAL	2528	⊥	BOX DRAWINGS VERTICAL HEAVY AND LEFT LIGHT
2505	---	BOX DRAWINGS HEAVY TRIPLE DASH HORIZONTAL	2529	⊥	BOX DRAWINGS DOWN LIGHT AND LEFT UP HEAVY
2506	---	BOX DRAWINGS LIGHT TRIPLE DASH VERTICAL	252A	⊥	BOX DRAWINGS UP LIGHT AND LEFT DOWN HEAVY
2507	---	BOX DRAWINGS HEAVY TRIPLE DASH VERTICAL	252B	⊥	BOX DRAWINGS HEAVY VERTICAL AND LEFT
2508	----	BOX DRAWINGS LIGHT QUADRUPLE DASH HORIZONTAL	252C	⊥	BOX DRAWINGS LIGHT DOWN AND HORIZONTAL = Videotex Mosaic DG 22
2509	----	BOX DRAWINGS HEAVY QUADRUPLE DASH HORIZONTAL	252D	⊥	BOX DRAWINGS LEFT HEAVY AND RIGHT DOWN LIGHT
250A	---	BOX DRAWINGS LIGHT QUADRUPLE DASH VERTICAL	252E	⊥	BOX DRAWINGS RIGHT HEAVY AND LEFT DOWN LIGHT
250B	---	BOX DRAWINGS HEAVY QUADRUPLE DASH VERTICAL	252F	⊥	BOX DRAWINGS DOWN LIGHT AND HORIZONTAL HEAVY = Videotex Mosaic DG 02
250C	┐	BOX DRAWINGS LIGHT DOWN AND RIGHT = Videotex Mosaic DG 16	2530	⊥	BOX DRAWINGS DOWN HEAVY AND HORIZONTAL LIGHT
250D	┐	BOX DRAWINGS DOWN LIGHT AND RIGHT HEAVY	2531	⊥	BOX DRAWINGS RIGHT LIGHT AND LEFT DOWN HEAVY
250E	┐	BOX DRAWINGS DOWN HEAVY AND RIGHT LIGHT	2532	⊥	BOX DRAWINGS LEFT LIGHT AND RIGHT DOWN HEAVY
250F	┐	BOX DRAWINGS HEAVY DOWN AND RIGHT	2533	⊥	BOX DRAWINGS HEAVY DOWN AND HORIZONTAL
2510	┐	BOX DRAWINGS LIGHT DOWN AND LEFT = Videotex Mosaic DG 17	2534	⊥	BOX DRAWINGS LIGHT UP AND HORIZONTAL = Videotex Mosaic DG 23
2511	┐	BOX DRAWINGS DOWN LIGHT AND LEFT HEAVY	2535	⊥	BOX DRAWINGS LEFT HEAVY AND RIGHT UP LIGHT
2512	┐	BOX DRAWINGS DOWN HEAVY AND LEFT LIGHT	2536	⊥	BOX DRAWINGS RIGHT HEAVY AND LEFT UP LIGHT
2513	┐	BOX DRAWINGS HEAVY DOWN AND LEFT	2537	⊥	BOX DRAWINGS UP LIGHT AND HORIZONTAL HEAVY = Videotex Mosaic DG 01
2514	┐	BOX DRAWINGS LIGHT UP AND RIGHT = Videotex Mosaic DG 18	2538	⊥	BOX DRAWINGS UP HEAVY AND HORIZONTAL LIGHT
2515	┐	BOX DRAWINGS UP LIGHT AND RIGHT HEAVY	2539	⊥	BOX DRAWINGS RIGHT LIGHT AND LEFT UP HEAVY
2516	┐	BOX DRAWINGS UP HEAVY AND RIGHT LIGHT	253A	⊥	BOX DRAWINGS LEFT LIGHT AND RIGHT UP HEAVY
2517	┐	BOX DRAWINGS HEAVY UP AND RIGHT	253B	⊥	BOX DRAWINGS HEAVY UP AND HORIZONTAL
2518	┐	BOX DRAWINGS LIGHT UP AND LEFT = Videotex Mosaic DG 19	253C	⊥	BOX DRAWINGS LIGHT VERTICAL AND HORIZONTAL = Videotex Mosaic DG 24
2519	┐	BOX DRAWINGS UP LIGHT AND LEFT HEAVY	253D	⊥	BOX DRAWINGS LEFT HEAVY AND RIGHT VERTICAL LIGHT
251A	┐	BOX DRAWINGS UP HEAVY AND LEFT LIGHT	253E	⊥	BOX DRAWINGS RIGHT HEAVY AND LEFT VERTICAL LIGHT
251B	┐	BOX DRAWINGS HEAVY UP AND LEFT	253F	⊥	BOX DRAWINGS VERTICAL LIGHT AND HORIZONTAL HEAVY = Videotex Mosaic DG 13
251C	┐	BOX DRAWINGS LIGHT VERTICAL AND RIGHT = Videotex Mosaic DG 20	2540	⊥	BOX DRAWINGS UP HEAVY AND DOWN HORIZONTAL LIGHT
251D	┐	BOX DRAWINGS VERTICAL LIGHT AND RIGHT HEAVY = Videotex Mosaic DG 03	2541	⊥	BOX DRAWINGS DOWN HEAVY AND UP HORIZONTAL LIGHT
251E	┐	BOX DRAWINGS UP HEAVY AND RIGHT DOWN LIGHT			
251F	┐	BOX DRAWINGS DOWN HEAVY AND RIGHT UP LIGHT			
2520	┐	BOX DRAWINGS VERTICAL HEAVY AND RIGHT LIGHT			
2521	┐	BOX DRAWINGS DOWN LIGHT AND RIGHT UP HEAVY			
2522	┐	BOX DRAWINGS UP LIGHT AND RIGHT DOWN HEAVY			
2523	┐	BOX DRAWINGS HEAVY VERTICAL AND RIGHT			

2542










## Box Drawing

257F

2542	⊕	BOX DRAWINGS VERTICAL HEAVY AND HORIZONTAL LIGHT	2566	⊖	BOX DRAWINGS DOUBLE DOWN AND HORIZONTAL
2543	⊕	BOX DRAWINGS LEFT UP HEAVY AND RIGHT DOWN LIGHT	2567	⊖	BOX DRAWINGS UP SINGLE AND HORIZONTAL DOUBLE
2544	⊕	BOX DRAWINGS RIGHT UP HEAVY AND LEFT DOWN LIGHT	2568	⊖	BOX DRAWINGS UP DOUBLE AND HORIZONTAL SINGLE
2545	⊕	BOX DRAWINGS LEFT DOWN HEAVY AND RIGHT UP LIGHT	2569	⊖	BOX DRAWINGS DOUBLE UP AND HORIZONTAL
2546	⊕	BOX DRAWINGS RIGHT DOWN HEAVY AND LEFT UP LIGHT	256A	⊕	BOX DRAWINGS VERTICAL SINGLE AND HORIZONTAL DOUBLE
2547	⊕	BOX DRAWINGS DOWN LIGHT AND UP HORIZONTAL HEAVY	256B	⊕	BOX DRAWINGS VERTICAL DOUBLE AND HORIZONTAL SINGLE
2548	⊕	BOX DRAWINGS UP LIGHT AND DOWN HORIZONTAL HEAVY	256C	⊕	BOX DRAWINGS DOUBLE VERTICAL AND HORIZONTAL
2549	⊕	BOX DRAWINGS RIGHT LIGHT AND LEFT VERTICAL HEAVY	256D	⌈	BOX DRAWINGS LIGHT ARC DOWN AND RIGHT
254A	⊕	BOX DRAWINGS LEFT LIGHT AND RIGHT VERTICAL HEAVY	256E	⌋	BOX DRAWINGS LIGHT ARC DOWN AND LEFT
254B	⊕	BOX DRAWINGS HEAVY VERTICAL AND HORIZONTAL	256F	⌋	BOX DRAWINGS LIGHT ARC UP AND LEFT
254C	--	BOX DRAWINGS LIGHT DOUBLE DASH HORIZONTAL	2570	⌋	BOX DRAWINGS LIGHT ARC UP AND RIGHT
254D	--	BOX DRAWINGS HEAVY DOUBLE DASH HORIZONTAL	2571	/	BOX DRAWINGS LIGHT DIAGONAL UPPER RIGHT TO LOWER LEFT
254E		BOX DRAWINGS LIGHT DOUBLE DASH VERTICAL	2572	\	BOX DRAWINGS LIGHT DIAGONAL UPPER LEFT TO LOWER RIGHT
254F		BOX DRAWINGS HEAVY DOUBLE DASH VERTICAL	2573	X	BOX DRAWINGS LIGHT DIAGONAL CROSS
2550	—	BOX DRAWINGS DOUBLE HORIZONTAL	2574	-	BOX DRAWINGS LIGHT LEFT
2551		BOX DRAWINGS DOUBLE VERTICAL	2575		BOX DRAWINGS LIGHT UP
2552	⌈	BOX DRAWINGS DOWN SINGLE AND RIGHT DOUBLE	2576	-	BOX DRAWINGS LIGHT RIGHT
2553	⌈	BOX DRAWINGS DOWN DOUBLE AND RIGHT SINGLE	2577		BOX DRAWINGS LIGHT DOWN
2554	⌈	BOX DRAWINGS DOUBLE DOWN AND RIGHT	2578	-	BOX DRAWINGS HEAVY LEFT
2555	⌈	BOX DRAWINGS DOWN SINGLE AND LEFT DOUBLE	2579		BOX DRAWINGS HEAVY UP
2556	⌈	BOX DRAWINGS DOWN DOUBLE AND LEFT SINGLE	257A	-	BOX DRAWINGS HEAVY RIGHT
2557	⌈	BOX DRAWINGS DOUBLE DOWN AND LEFT	257B		BOX DRAWINGS HEAVY DOWN
2558	⌈	BOX DRAWINGS UP SINGLE AND RIGHT DOUBLE	257C	-	BOX DRAWINGS LIGHT LEFT AND HEAVY RIGHT
2559	⌈	BOX DRAWINGS UP DOUBLE AND RIGHT SINGLE	257D		BOX DRAWINGS LIGHT UP AND HEAVY DOWN
255A	⌈	BOX DRAWINGS DOUBLE UP AND RIGHT	257E	-	BOX DRAWINGS HEAVY LEFT AND LIGHT RIGHT
255B	⌈	BOX DRAWINGS UP SINGLE AND LEFT DOUBLE	257F		BOX DRAWINGS HEAVY UP AND LIGHT DOWN
255C	⌈	BOX DRAWINGS UP DOUBLE AND LEFT SINGLE			
255D	⌈	BOX DRAWINGS DOUBLE UP AND LEFT			
255E	⌈	BOX DRAWINGS VERTICAL SINGLE AND RIGHT DOUBLE			
255F	⌈	BOX DRAWINGS VERTICAL DOUBLE AND RIGHT SINGLE			
2560	⌈	BOX DRAWINGS DOUBLE VERTICAL AND RIGHT			
2561	⌈	BOX DRAWINGS VERTICAL SINGLE AND LEFT DOUBLE			
2562	⌈	BOX DRAWINGS VERTICAL DOUBLE AND LEFT SINGLE			
2563	⌈	BOX DRAWINGS DOUBLE VERTICAL AND LEFT			
2564	⌈	BOX DRAWINGS DOWN SINGLE AND HORIZONTAL DOUBLE			
2565	⌈	BOX DRAWINGS DOWN DOUBLE AND HORIZONTAL SINGLE			









	258	259
0		
	2580	2590
1		
	2581	2591
2		
	2582	2592
3		
	2583	2593
4		
	2584	2594
5		
	2585	2595
6		
	2586	2596
7		
	2587	2597
8		
	2588	2598
9		
	2589	2599
A		
	258A	259A
B		
	258B	259B
C		
	258C	259C
D		
	258D	259D
E		
	258E	259E
F		
	258F	259F

**Block elements**




- 2580  UPPER HALF BLOCK  
 2581  LOWER ONE EIGHTH BLOCK  
 2582  LOWER ONE QUARTER BLOCK  
 2583  LOWER THREE EIGHTHS BLOCK  
 2584  LOWER HALF BLOCK  
 2585  LOWER FIVE EIGHTHS BLOCK  
 2586  LOWER THREE QUARTERS BLOCK  
 2587  LOWER SEVEN EIGHTHS BLOCK  
 2588  FULL BLOCK

= solid



→ 25A0  black square

- 2589  LEFT SEVEN EIGHTHS BLOCK  
 258A  LEFT THREE QUARTERS BLOCK  
 258B  LEFT FIVE EIGHTHS BLOCK  
 258C  LEFT HALF BLOCK  
 258D  LEFT THREE EIGHTHS BLOCK  
 258E  LEFT ONE QUARTER BLOCK  
 258F  LEFT ONE EIGHTH BLOCK  
 2590  RIGHT HALF BLOCK











**Shade characters**

- 2591  LIGHT SHADE  
 • 25%  
 2592  MEDIUM SHADE  
 • 50%  
 2593  DARK SHADE  
 • 75%

































































































**Block elements**

- 2594  UPPER ONE EIGHTH BLOCK  
 2595  RIGHT ONE EIGHTH BLOCK

**Terminal graphic characters**

- 2596  QUADRANT LOWER LEFT  
 2597  QUADRANT LOWER RIGHT  
 2598  QUADRANT UPPER LEFT  
 2599  QUADRANT UPPER LEFT AND LOWER LEFT AND LOWER RIGHT  
 259A  QUADRANT UPPER LEFT AND LOWER RIGHT  
 259B  QUADRANT UPPER LEFT AND UPPER RIGHT AND LOWER LEFT  
 259C  QUADRANT UPPER LEFT AND UPPER RIGHT AND LOWER RIGHT  
 259D  QUADRANT UPPER RIGHT  
 259E  QUADRANT UPPER RIGHT AND LOWER LEFT  
 259F  QUADRANT UPPER RIGHT AND LOWER LEFT AND LOWER RIGHT



	25A	25B	25C	25D	25E	25F
0	 25A0	 25B0	 25C0	 25D0	 25E0	 25F0
1	 25A1	 25B1	 25C1	 25D1	 25E1	 25F1
2	 25A2	 25B2	 25C2	 25D2	 25E2	 25F2
3	 25A3	 25B3	 25C3	 25D3	 25E3	 25F3
4	 25A4	 25B4	 25C4	 25D4	 25E4	 25F4
5	 25A5	 25B5	 25C5	 25D5	 25E5	 25F5
6	 25A6	 25B6	 25C6	 25D6	 25E6	 25F6
7	 25A7	 25B7	 25C7	 25D7	 25E7	 25F7
8	 25A8	 25B8	 25C8	 25D8	 25E8	 25F8
9	 25A9	 25B9	 25C9	 25D9	 25E9	 25F9
A	 25AA	 25BA	 25CA	 25DA	 25EA	 25FA
B	 25AB	 25BB	 25CB	 25DB	 25EB	 25FB
C	 25AC	 25BC	 25CC	 25DC	 25EC	 25FC
D	 25AD	 25BD	 25CD	 25DD	 25ED	 25FD
E	 25AE	 25BE	 25CE	 25DE	 25EE	 25FE
F	 25AF	 25BF	 25CF	 25DF	 25EF	 25FF

**Geometric shapes**





























*Other geometric shapes complementing this set are found in the Miscellaneous Symbols and Arrows block.*

25A0	■	<b>BLACK SQUARE</b> = moding mark (in ideographic text) → 2588 ■ full block → 2B1B ■ black large square
25A1	□	<b>WHITE SQUARE</b> = quadrature • may be used to represent a missing ideograph → 20DE □ combining enclosing square → 2610 □ ballot box → 2B1C □ white large square → 3013 𐀀 geta mark
25A2	◻	<b>WHITE SQUARE WITH ROUNDED CORNERS</b>
25A3	◼	<b>WHITE SQUARE CONTAINING BLACK SMALL SQUARE</b>
25A4	▤	<b>SQUARE WITH HORIZONTAL FILL</b>
25A5	▥	<b>SQUARE WITH VERTICAL FILL</b>
25A6	▧	<b>SQUARE WITH ORTHOGONAL CROSSHATCH FILL</b>
25A7	▨	<b>SQUARE WITH UPPER LEFT TO LOWER RIGHT FILL</b>
25A8	▩	<b>SQUARE WITH UPPER RIGHT TO LOWER LEFT FILL</b>
25A9	▪	<b>SQUARE WITH DIAGONAL CROSSHATCH FILL</b>
25AA	▪	<b>BLACK SMALL SQUARE</b> → 2B1D ▪ black very small square
25AB	▫	<b>WHITE SMALL SQUARE</b> → 2B1E ▫ white very small square
25AC	▬	<b>BLACK RECTANGLE</b>
25AD	▭	<b>WHITE RECTANGLE</b>
25AE	▮	<b>BLACK VERTICAL RECTANGLE</b> = histogram marker → 220E ▮ end of proof
25AF	▯	<b>WHITE VERTICAL RECTANGLE</b> → 2337 ▯ apl functional symbol squish quad → 2395 ▯ apl functional symbol quad
25B0	▰	<b>BLACK PARALLELOGRAM</b>
25B1	▱	<b>WHITE PARALLELOGRAM</b>
25B2	▲	<b>BLACK UP-POINTING TRIANGLE</b>
25B3	△	<b>WHITE UP-POINTING TRIANGLE</b> = trine → 20E4 △ combining enclosing upward pointing triangle → 2206 △ increment
25B4	▴	<b>BLACK UP-POINTING SMALL TRIANGLE</b>
25B5	▵	<b>WHITE UP-POINTING SMALL TRIANGLE</b>
25B6	▶	<b>BLACK RIGHT-POINTING TRIANGLE</b>
25B7	▷	<b>WHITE RIGHT-POINTING TRIANGLE</b> = z notation range restriction
25B8	▸	<b>BLACK RIGHT-POINTING SMALL TRIANGLE</b> → 2023 ▸ triangular bullet
25B9	▹	<b>WHITE RIGHT-POINTING SMALL TRIANGLE</b>
25BA	▹	<b>BLACK RIGHT-POINTING POINTER</b>
25BB	▸	<b>WHITE RIGHT-POINTING POINTER</b> = forward arrow indicator → 22B3 ▸ contains as normal subgroup
25BC	▼	<b>BLACK DOWN-POINTING TRIANGLE</b>
25BD	▽	<b>WHITE DOWN-POINTING TRIANGLE</b> = Hamilton operator → 2207 ▽ nabla → 26DB ▽ heavy white down-pointing triangle
25BE	▾	<b>BLACK DOWN-POINTING SMALL TRIANGLE</b>
25BF	▿	<b>WHITE DOWN-POINTING SMALL TRIANGLE</b>
25C0	◀	<b>BLACK LEFT-POINTING TRIANGLE</b>
25C1	◁	<b>WHITE LEFT-POINTING TRIANGLE</b> = z notation domain restriction
25C2	◄	<b>BLACK LEFT-POINTING SMALL TRIANGLE</b>
25C3	◅	<b>WHITE LEFT-POINTING SMALL TRIANGLE</b>
25C4	◄	<b>BLACK LEFT-POINTING POINTER</b>
25C5	◅	<b>WHITE LEFT-POINTING POINTER</b> = backward arrow indicator → 22B2 ◄ normal subgroup of
25C6	◆	<b>BLACK DIAMOND</b> → 2666 ◆ black diamond suit
25C7	◇	<b>WHITE DIAMOND</b> → 20DF ◇ combining enclosing diamond → 22C4 ◇ diamond operator → 2662 ◇ white diamond suit
25C8	◈	<b>WHITE DIAMOND CONTAINING BLACK SMALL DIAMOND</b>
25C9	●	<b>FISHEYE</b> = tainome (Japanese, a kind of bullet)
25CA	◇	<b>LOZENGE</b> → 2662 ◇ white diamond suit
25CB	○	<b>WHITE CIRCLE</b> → 20DD ○ combining enclosing circle → 25EF ○ large circle → 2B58 ○ heavy circle → 3007 ○ ideographic number zero
25CC	⦿	<b>DOTTED CIRCLE</b> • note that the reference glyph for this character is intentionally larger than the dotted circle glyph used to indicate combining characters in this standard; see, for example, 0300 ◌
25CD	◐	<b>CIRCLE WITH VERTICAL FILL</b>
25CE	◎	<b>BULLSEYE</b> → 229A ◎ circled ring operator → 2B57 ◎ heavy circle with circle inside
25CF	●	<b>BLACK CIRCLE</b>
25D0	◐	<b>CIRCLE WITH LEFT HALF BLACK</b>
25D1	◑	<b>CIRCLE WITH RIGHT HALF BLACK</b>
25D2	◒	<b>CIRCLE WITH LOWER HALF BLACK</b>
25D3	◓	<b>CIRCLE WITH UPPER HALF BLACK</b>
25D4	◔	<b>CIRCLE WITH UPPER RIGHT QUADRANT BLACK</b>
25D5	◕	<b>CIRCLE WITH ALL BUT UPPER LEFT QUADRANT BLACK</b>
25D6	◖	<b>LEFT HALF BLACK CIRCLE</b>
25D7	◗	<b>RIGHT HALF BLACK CIRCLE</b>
25D8	◘	<b>INVERSE BULLET</b> → 2022 ◘ bullet → 25E6 ◘ white bullet
25D9	◙	<b>INVERSE WHITE CIRCLE</b>
25DA	◚	<b>UPPER HALF INVERSE WHITE CIRCLE</b>
25DB	◛	<b>LOWER HALF INVERSE WHITE CIRCLE</b>
25DC	◜	<b>UPPER LEFT QUADRANT CIRCULAR ARC</b>
25DD	◝	<b>UPPER RIGHT QUADRANT CIRCULAR ARC</b>









## 25DE

## Geometric Shapes















## 25FF

































































































































































































































































- 25DE  LOWER RIGHT QUADRANT CIRCULAR ARC  
 25DF  LOWER LEFT QUADRANT CIRCULAR ARC  
 25E0  UPPER HALF CIRCLE  
     → 2312  arc  
 25E1  LOWER HALF CIRCLE  
 25E2  BLACK LOWER RIGHT TRIANGLE  
 25E3  BLACK LOWER LEFT TRIANGLE  
 25E4  BLACK UPPER LEFT TRIANGLE  
 25E5  BLACK UPPER RIGHT TRIANGLE  
 25E6  WHITE BULLET  
     → 2022  bullet  
     → 2218  ring operator  
     → 25D8  inverse bullet  
 25E7  SQUARE WITH LEFT HALF BLACK  
     → 2B12  square with top 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  
 25EF  LARGE CIRCLE  
     → 20DD  combining enclosing circle  
     → 25CB  white circle  
     → 2B24  black large circle  
     → 2B55  heavy large circle  
     → 3007  ideographic number zero

**Control code graphics**

- 25F0  WHITE SQUARE WITH UPPER LEFT QUADRANT  
 25F1  WHITE SQUARE WITH LOWER LEFT QUADRANT  
 25F2  WHITE SQUARE WITH LOWER RIGHT QUADRANT  
 25F3  WHITE SQUARE WITH UPPER RIGHT QUADRANT  
 25F4  WHITE CIRCLE WITH UPPER LEFT QUADRANT  
 25F5  WHITE CIRCLE WITH LOWER LEFT QUADRANT  
 25F6  WHITE CIRCLE WITH LOWER RIGHT QUADRANT  
 25F7  WHITE CIRCLE WITH UPPER RIGHT QUADRANT

**Geometric shapes**

- 25F8  UPPER LEFT TRIANGLE  
 25F9  UPPER RIGHT TRIANGLE  
 25FA  LOWER LEFT TRIANGLE  
     → 22BF  right triangle  
 25FB  WHITE MEDIUM SQUARE  
     = always (modal operator)  
     → 25A1  white square  
 25FC  BLACK MEDIUM SQUARE  
     → 25A0  black square  
 25FD  WHITE MEDIUM SMALL SQUARE  
     → 25AB  white small square  
 25FE  BLACK MEDIUM SMALL SQUARE  
     → 25AA  black small square  
 25FF  LOWER RIGHT TRIANGLE  
     → 22BF  right triangle

	260	261	262	263	264	265	266	267	268	269	26A	26B	26C	26D	26E	26F
0	 2600	 2610	 2620	 2630	 2640	 2650	 2660	 2670	 2680	 2690	 26A0	 26B0	 26C0	 26D0	 26E0	 26F0
1	 2601	 2611	 2621	 2631	 2641	 2651	 2661	 2671	 2681	 2691	 26A1	 26B1	 26C1	 26D1	 26E1	 26F1
2	 2602	 2612	 2622	 2632	 2642	 2652	 2662	 2672	 2682	 2692	 26A2	 26B2	 26C2	 26D2		 26F2
3	 2603	 2613	 2623	 2633	 2643	 2653	 2663	 2673	 2683	 2693	 26A3	 26B3	 26C3	 26D3	 26E3	 26F3
4	 2604	 2614	 2624	 2634	 2644	 2654	 2664	 2674	 2684	 2694	 26A4	 26B4	 26C4	 26D4		 26F4
5	 2605	 2615	 2625	 2635	 2645	 2655	 2665	 2675	 2685	 2695	 26A5	 26B5	 26C5	 26D5		 26F5
6	 2606	 2616	 2626	 2636	 2646	 2656	 2666	 2676	 2686	 2696	 26A6	 26B6	 26C6	 26D6		 26F6
7	 2607	 2617	 2627	 2637	 2647	 2657	 2667	 2677	 2687	 2697	 26A7	 26B7	 26C7	 26D7		 26F7
8	 2608	 2618	 2628	 2638	 2648	 2658	 2668	 2678	 2688	 2698	 26A8	 26B8	 26C8	 26D8	 26E8	 26F8
9	 2609	 2619	 2629	 2639	 2649	 2659	 2669	 2679	 2689	 2699	 26A9	 26B9	 26C9	 26D9	 26E9	 26F9
A	 260A	 261A	 262A	 263A	 264A	 265A	 266A	 267A	 268A	 269A	 26AA	 26BA	 26CA	 26DA	 26EA	 26FA
B	 260B	 261B	 262B	 263B	 264B	 265B	 266B	 267B	 268B	 269B	 26AB	 26BB	 26CB	 26DB	 26EB	 26FB
C	 260C	 261C	 262C	 263C	 264C	 265C	 266C	 267C	 268C	 269C	 26AC	 26BC	 26CC	 26DC	 26EC	 26FC
D	 260D	 261D	 262D	 263D	 264D	 265D	 266D	 267D	 268D	 269D	 26AD	 26BD	 26CD	 26DD	 26ED	 26FD
E	 260E	 261E	 262E	 263E	 264E	 265E	 266E	 267E	 268E	 269E	 26AE	 26BE	 26CE	 26DE	 26EE	 26FE
F	 260F	 261F	 262F	 263F	 264F	 265F	 266F	 267F	 268F	 269F	 26AF	 26BF	 26CF	 26DF	 26EF	 26FF

**Weather and astrological symbols**

- 2600 ☀ BLACK SUN WITH RAYS  
= clear weather  
→ 2609 ☼ sun
- 2601 ☁ CLOUD  
= cloudy weather
- 2602 ☂ UMBRELLA  
= rainy weather
- 2603 ☎ SNOWMAN  
= snowy weather
- 2604 ☄ COMET
- 2605 ★ BLACK STAR  
→ 22C6 ★ star operator
- 2606 ☆ WHITE STAR  
→ 2729 ☆ stress outlined white star
- 2607 ⚡ LIGHTNING
- 2608 ⚡ THUNDERSTORM
- 2609 ☉ SUN  
→ 2299 ☉ circled dot operator  
→ 2600 ☀ black sun with rays  
→ 263C ☼ white sun with rays
- 260A ♈ ASCENDING NODE
- 260B ♉ DESCENDING NODE
- 260C ♊ CONJUNCTION
- 260D ♋ OPPOSITION

**Miscellaneous symbols**

- 260E ☎ BLACK TELEPHONE  
→ 2121 ☎ TEL. telephone sign  
→ 2706 ☎ telephone location sign
- 260F ☎ WHITE TELEPHONE
- 2610 □ BALLOT BOX  
→ 25A1 □ white square
- 2611 ☑ BALLOT BOX WITH CHECK
- 2612 ☒ BALLOT BOX WITH X  
→ 22A0 ☒ squared times
- 2613 X SALTIRE  
= St. Andrew's Cross  
→ 2717 X ballot x

**Weather symbol**

- 2614 ☂ UMBRELLA WITH RAIN DROPS  
= showery weather

**Miscellaneous symbol**

- 2615 ☕ HOT BEVERAGE  
= tea or coffee, depending on locale  
• can be used to indicate a wait  
→ 231A ☕ watch  
→ 231B ☕ hourglass

**Japanese chess symbols**

- 2616 ♔ WHITE SHOGI PIECE
- 2617 ♚ BLACK SHOGI PIECE

**Miscellaneous symbols**

- 2618 ♣ SHAMROCK
- 2619 ♣ REVERSED ROTATED FLORAL HEART BULLET  
• a binding signature mark  
→ 2767 ♣ rotated floral heart bullet

**Pointing hand symbols**

- 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  
= fist (typographic term)
- 261F 🖐 WHITE DOWN POINTING INDEX

**Warning signs**

- 2620 ☠ SKULL AND CROSSBONES  
= poison
- 2621 ⚠ CAUTION SIGN
- 2622 ☢ RADIOACTIVE SIGN
- 2623 ☣ BIOHAZARD SIGN

**Medical and healing symbols**

- 2624 ☥ CADUCEUS  
→ 2695 ☥ staff of aesculapius
- 2625 ♀ ANKH

**Religious and political symbols**

- 2626 ☩ ORTHODOX CROSS
- 2627 ☩ CHI RHO  
= Constantine's cross, Christogram  
→ 2CE9 ☩ coptic symbol khi ro
- 2628 ☩ CROSS OF LORRAINE
- 2629 ☩ CROSS OF JERUSALEM
- 262A ☩ STAR AND CRESCENT
- 262B ☩ FARSI SYMBOL  
= symbol of iran (1.0)
- 262C ☩ ADI SHAKTI  
= Gurmukhi khandā
- 262D ☩ HAMMER AND SICKLE
- 262E ☩ PEACE SYMBOL
- 262F ☩ YIN YANG  
→ 0FCA ☩ tibetan symbol nor bu nyis -khyil

**Yijing trigram symbols**

- 2630 ☰ TRIGRAM FOR HEAVEN  
= qian2
- 2631 ☱ TRIGRAM FOR LAKE  
= dui4
- 2632 ☲ TRIGRAM FOR FIRE  
= li2
- 2633 ☳ TRIGRAM FOR THUNDER  
= zhen4
- 2634 ☴ TRIGRAM FOR WIND  
= xun4
- 2635 ☵ TRIGRAM FOR WATER  
= kan3
- 2636 ☶ TRIGRAM FOR MOUNTAIN  
= gen4
- 2637 ☷ TRIGRAM FOR EARTH  
= kun1

**Miscellaneous symbols**

- 2638 ☸ WHEEL OF DHARMA  
→ 2388 ☸ helm symbol
- 2639 ☹ WHITE FROWNING FACE
- 263A ☺ WHITE SMILING FACE  
= have a nice day!

- 263B ☺ BLACK SMILING FACE  
 263C ☉ WHITE SUN WITH RAYS  
 = compass  
 → 2609 ☼ sun

**Astrological symbols**

- 263D ☾ FIRST QUARTER MOON  
 263E ☾ LAST QUARTER MOON  
 263F ☿ MERCURY  
 2640 ♀ FEMALE SIGN  
 = Venus  
 2641 ♂ EARTH  
 → 2295 ⊕ circled plus  
 2642 ♂ MALE SIGN  
 = Mars  
 2643 ♃ JUPITER  
 2644 ♄ SATURN  
 2645 ♅ URANUS  
 2646 ♆ NEPTUNE  
 2647 ♇ PLUTO

**Zodiacal symbols**

- 2648 ♈ ARIES  
 2649 ♉ TAURUS  
 264A ♊ GEMINI  
 264B ♋ CANCER  
 264C ♌ LEO  
 264D ♍ VIRGO  
 = minim (alternate glyph)  
 264E ♎ LIBRA  
 264F ♏ SCORPIUS  
 = scorpio  
 = minim, drop  
 2650 ♐ SAGITTARIUS  
 2651 ♑ CAPRICORN  
 2652 ♒ AQUARIUS  
 2653 ♓ PISCES

**Chess symbols**

- 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

**Playing card symbols**

- 2660 ♠ BLACK SPADE SUIT  
 2661 ♥ WHITE HEART SUIT  
 2662 ♦ WHITE DIAMOND SUIT  
 → 25C7 ◇ white diamond  
 → 25CA ◇ lozenge  
 2663 ♣ BLACK CLUB SUIT  
 → 2618 ♣ shamrock  
 2664 ♠ WHITE SPADE SUIT

- 2665 ♥ BLACK HEART SUIT  
 = valentine  
 → 2764 ♥ heavy black heart  
 2666 ♦ BLACK DIAMOND SUIT  
 → 25C6 ♦ black diamond  
 2667 ♣ WHITE CLUB SUIT

**Miscellaneous symbol**

- 2668 ♨ HOT SPRINGS

**Musical symbols**

- 2669 ♩ QUARTER NOTE  
 266A ♪ EIGHTH NOTE  
 266B ♪ BEAMED EIGHTH NOTES  
 266C ♪ BEAMED SIXTEENTH NOTES  
 266D ♮ MUSIC FLAT SIGN  
 266E ♮ MUSIC NATURAL SIGN  
 266F # MUSIC SHARP SIGN  
 = z notation infix bag count  
 → 0023 # number sign

**Syriac cross symbols**

*These symbols are used in liturgical texts of Syriac-speaking churches.*

- 2670 𐐪 WEST SYRIAC CROSS  
 2671 𐐫 EAST SYRIAC CROSS

**Recycling symbols**

- 2672 ♻ UNIVERSAL RECYCLING SYMBOL  
 • used as generic symbol for recycling or to indicate that material is recyclable  
 2673 ♻ RECYCLING SYMBOL FOR TYPE-1 PLASTICS  
 • polyethylene terephthalate  
 2674 ♻ RECYCLING SYMBOL FOR TYPE-2 PLASTICS  
 • high density polyethylene  
 2675 ♻ RECYCLING SYMBOL FOR TYPE-3 PLASTICS  
 • vinyl, polyvinyl chloride  
 2676 ♻ RECYCLING SYMBOL FOR TYPE-4 PLASTICS  
 • low density polyethylene  
 2677 ♻ RECYCLING SYMBOL FOR TYPE-5 PLASTICS  
 • polypropylene  
 2678 ♻ RECYCLING SYMBOL FOR TYPE-6 PLASTICS  
 • polystyrene  
 2679 ♻ RECYCLING SYMBOL FOR TYPE-7 PLASTICS  
 • other plastics  
 267A ♻ RECYCLING SYMBOL FOR GENERIC MATERIALS  
 • used together with other text and labels to indicate the type of material to be recycled  
 267B ♻ BLACK UNIVERSAL RECYCLING SYMBOL  
 267C ♻ RECYCLED PAPER SYMBOL  
 • used to indicate 100% recycled paper content  
 267D ♻ PARTIALLY-RECYCLED PAPER SYMBOL  
 • percentage of recycled paper content indicated in overlay or next to this symbol

**Miscellaneous symbols**

- 267E ♻ PERMANENT PAPER SIGN  
 267F ♻ WHEELCHAIR SYMBOL

**Dice**

- 2680 🎲 DIE FACE-1  
 2681 🎲 DIE FACE-2

2682		DIE FACE-3
2683		DIE FACE-4
2684		DIE FACE-5
2685		DIE FACE-6

**Go markers**

2686		WHITE CIRCLE WITH DOT RIGHT
2687		WHITE CIRCLE WITH TWO DOTS
2688		BLACK CIRCLE WITH WHITE DOT RIGHT
2689		BLACK CIRCLE WITH TWO WHITE DOTS

**Yijing monogram and digram symbols**

*These form a subset of the larger collection found in the Tai Xuan Jing Symbols block.*

268A		MONOGRAM FOR YANG
268B		MONOGRAM FOR YIN
268C		DIGRAM FOR GREATER YANG
268D		DIGRAM FOR LESSER YIN
268E		DIGRAM FOR LESSER YANG
268F		DIGRAM FOR GREATER YIN

**Dictionary and map symbols**

2690		WHITE FLAG
2691		BLACK FLAG
2692		HAMMER AND PICK = mining, working day (in timetables)
2693		ANCHOR = nautical term, harbor (on maps)
2694		CROSSED SWORDS = military term, battleground (on maps), killed in action
2695		STAFF OF AESCULAPIUS = medical term • both inclined or upright renderings of this symbol are common → 2624  caduceus
2696		SCALES = legal term, jurisprudence
2697		ALEMBIC = chemical term, chemistry
2698		FLOWER = botanical term → 2055  flower punctuation mark → 2618  shamrock → 2740  white florette
2699		GEAR = technology, tools
269A		STAFF OF HERMES • signifies a commercial term or commerce • glyph shows a heraldic staff with a winged wheel
269B		ATOM SYMBOL = nuclear installation (on maps)

**Miscellaneous symbols**

269C		FLEUR-DE-LIS
269D		OUTLINED WHITE STAR • symbol of Morocco

**Symbols for closed captioning from ARIB STD B24**

269E		THREE LINES CONVERGING RIGHT = someone speaking
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269F		THREE LINES CONVERGING LEFT = background speaking
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**Miscellaneous symbols**

26A0		WARNING SIGN
26A1		HIGH VOLTAGE SIGN = thunder

**Gender symbols**

26A2		DOUBLED FEMALE SIGN = lesbianism
26A3		DOUBLED MALE SIGN • a glyph variant has the two circles on the same line = male homosexuality
26A4		INTERLOCKED FEMALE AND MALE SIGN • a glyph variant has the two circles on the same line = bisexuality
26A5		MALE AND FEMALE SIGN = transgendered sexuality = hermaphrodite (in entomology)
26A6		MALE WITH STROKE SIGN = transgendered sexuality
26A7		MALE WITH STROKE AND MALE AND FEMALE SIGN = transgendered sexuality
26A8		VERTICAL MALE WITH STROKE SIGN = ferrous iron sulphate (alchemy and older chemistry)
26A9		HORIZONTAL MALE WITH STROKE SIGN = magnesium (alchemy and older chemistry)

**Circles**

26AA		MEDIUM WHITE CIRCLE = asexuality, sexless, genderless = engaged, betrothed • base for male or female sign
26AB		MEDIUM BLACK CIRCLE • UI symbol for record function
26AC		MEDIUM SMALL WHITE CIRCLE = engaged, betrothed (genealogy) • can represent wedding ring

**Genealogical symbols**

26AD		MARRIAGE SYMBOL → 221E  infinity
26AE		DIVORCE SYMBOL → 29DE  infinity negated with vertical bar
26AF		UNMARRIED PARTNERSHIP SYMBOL → 29DF  double-ended multimap
26B0		COFFIN = buried (genealogy) → 25AD  white rectangle
26B1		FUNERAL URN = cremated (genealogy)

**Gender symbol**

26B2		NEUTER
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**Astrological signs**

26B3		CERES
26B4		PALLAS
26B5		JUNO

26B6	✎	VESTA
26B7	♄	CHIRON
26B8	☾	BLACK MOON LILITH
26B9	*	SEXTILE → 002A * asterisk
26BA	✎	SEMISEXTILE → 22BB ✎ xor
26BB	π	QUINCUNX → 22BC π nand
26BC	⊞	SESQUIQUADRATE

**Sports symbol**

26BD	⚽	SOCCER BALL
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**Miscellaneous symbols from ARIB STD B24**

26BE	⚾	BASEBALL
26BF	🔒	SQUARED KEY = parental lock

**Symbols for draughts and checkers**

26C0	♙	WHITE DRAUGHTS MAN
26C1	♚	WHITE DRAUGHTS KING
26C2	♜	BLACK DRAUGHTS MAN
26C3	♝	BLACK DRAUGHTS KING

**Weather symbols from ARIB STD B24**

26C4	☁	SNOWMAN WITHOUT SNOW = light snow
26C5	☂	SUN BEHIND CLOUD = partly cloudy
26C6	🌧	RAIN = rainy weather
26C7	❄	BLACK SNOWMAN = heavy snow
26C8	🌩	THUNDER CLOUD AND RAIN = thunderstorm

**Game symbols from ARIB STD B24**

26C9	🏳	TURNED WHITE SHOGI PIECE
26CA	🏴	TURNED BLACK SHOGI PIECE
26CB	⬜	WHITE DIAMOND IN SQUARE → 233A ⬜ apl functional symbol quad diamond

**Traffic signs from ARIB STD B24**

26CC	✖	CROSSING LANES = accident → 292C ✖ falling diagonal crossing rising diagonal
26CD	🚫	DISABLED CAR

**Zodiacal symbol**

26CE	♎	OPHIUCHUS = e-037
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**Traffic signs from ARIB STD B24**

26CF	🚧	PICK = under construction
26D0	🚗	CAR SLIDING = icy road
26D1	🚚	HELMET WITH WHITE CROSS = maintenance
26D2	⊗	CIRCLED CROSSING LANES = road closed
26D3	🛑	CHAINS = tyre chains required

26D4	🚫	NO ENTRY
26D5	🚦	ALTERNATE ONE-WAY LEFT WAY TRAFFIC • left side traffic
26D6	🚦	BLACK TWO-WAY LEFT WAY TRAFFIC • left side traffic
26D7	🚦	WHITE TWO-WAY LEFT WAY TRAFFIC • left side traffic
26D8	🚦	BLACK LEFT LANE MERGE • left side traffic
26D9	🚦	WHITE LEFT LANE MERGE • left side traffic
26DA	🚦	DRIVE SLOW SIGN
26DB	🚦	HEAVY WHITE DOWN-POINTING TRIANGLE = drive slow → 25BD ▾ white down-pointing triangle
26DC	🚦	LEFT CLOSED ENTRY
26DD	🚦	SQUARED SALTIRE = closed entry → 22A0 🚦 squared times
26DE	🚦	FALLING DIAGONAL IN WHITE CIRCLE IN BLACK SQUARE = closed to large vehicles
26DF	🚚	BLACK TRUCK = black lorry = closed to large vehicles, alternate
26E0	🚦	RESTRICTED LEFT ENTRY-1
26E1	🚦	RESTRICTED LEFT ENTRY-2

**Dictionary and map symbols from ARIB STD B24**







26E3	🏠	HEAVY CIRCLE WITH STROKE AND TWO DOTS ABOVE = public office
26E4	🚧	<reserved>
26E5	🚧	<reserved>
26E6	🚧	<reserved>
26E7	🚧	<reserved>
26E8	🏠	BLACK CROSS ON SHIELD = hospital
26E9	🏠	SHINTO SHRINE
26EA	🏠	CHURCH
26EB	🏠	CASTLE
26EC	🏠	HISTORIC SITE
26ED	🏠	GEAR WITHOUT HUB = factory → 2699 ⚙ gear
26EE	🏠	GEAR WITH HANDLES = power plant, power substation
26EF	🏠	MAP SYMBOL FOR LIGHTHOUSE
26F0	🏠	MOUNTAIN
26F1	🏠	UMBRELLA ON GROUND = bathing beach
26F2	🏠	FOUNTAIN = park
26F3	🏠	FLAG IN HOLE = golf course
26F4	🏠	FERRY = ferry boat terminal
26F5	🏠	SAILBOAT = marina or yacht harbour
26F6	🏠	SQUARE FOUR CORNERS = intersection







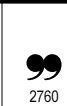

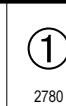











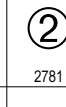

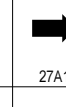
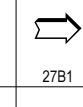

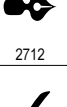
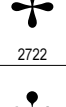
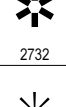

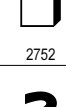
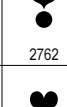
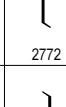
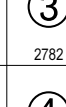
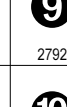
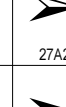


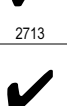


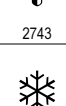
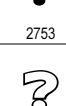
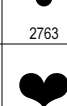
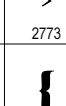
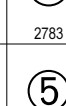
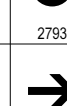
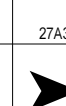

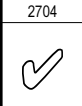

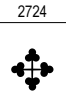




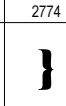

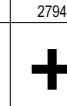
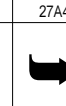
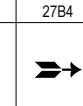








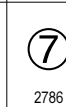

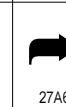

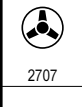




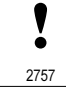


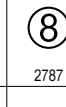



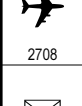

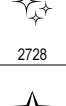


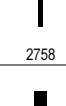
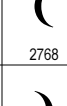
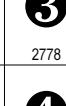
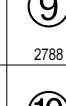
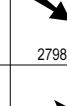
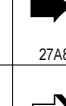

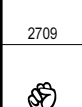
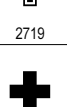
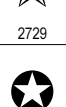

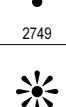

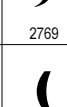
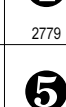
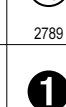
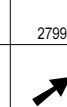
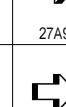
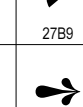
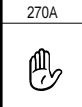




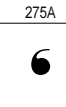
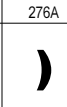


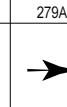

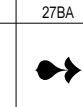
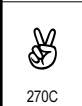





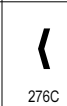


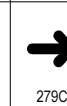
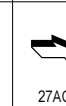
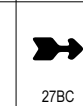






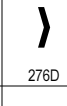




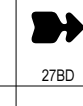

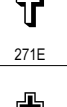

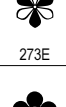

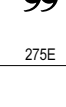

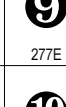
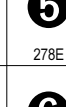
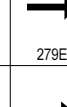
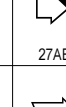

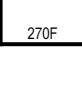
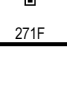
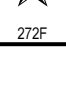
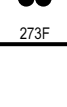
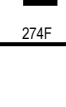
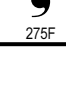
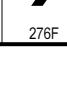
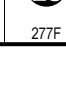
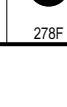
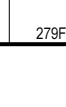
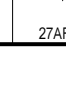



























26F7

## Miscellaneous Symbols

26FF

- 26F7  SKIER  
= ski resort
- 26F8  ICE SKATE  
= ice skating rink
- 26F9  PERSON WITH BALL  
= track and field, gymnasium
- 26FA  TENT  
= camping site
- 26FB  JAPANESE BANK SYMBOL
- 26FC  HEADSTONE GRAVEYARD SYMBOL  
= graveyard, memorial park, cemetery
- 26FD  FUEL PUMP  
= petrol station, gas station
- 26FE  CUP ON BLACK SQUARE  
= drive-in restaurant
- 26FF  WHITE FLAG WITH HORIZONTAL MIDDLE  
BLACK STRIPE  
= Japanese self-defence force site

	270	271	272	273	274	275	276	277	278	279	27A	27B
0		 2710	 2720	 2730	 2740	 2750	 2760	 2770	 2780	 2790	 27A0	
1	 2701	 2711	 2721	 2731	 2741	 2751	 2761	 2771	 2781	 2791	 27A1	 27B1
2	 2702	 2712	 2722	 2732	 2742	 2752	 2762	 2772	 2782	 2792	 27A2	 27B2
3	 2703	 2713	 2723	 2733	 2743	 2753	 2763	 2773	 2783	 2793	 27A3	 27B3
4	 2704	 2714	 2724	 2734	 2744	 2754	 2764	 2774	 2784	 2794	 27A4	 27B4
5	 2705	 2715	 2725	 2735	 2745	 2755	 2765	 2775	 2785	 2795	 27A5	 27B5
6	 2706	 2716	 2726	 2736	 2746	 2756	 2766	 2776	 2786	 2796	 27A6	 27B6
7	 2707	 2717	 2727	 2737	 2747	 2757	 2767	 2777	 2787	 2797	 27A7	 27B7
8	 2708	 2718	 2728	 2738	 2748	 2758	 2768	 2778	 2788	 2798	 27A8	 27B8
9	 2709	 2719	 2729	 2739	 2749	 2759	 2769	 2779	 2789	 2799	 27A9	 27B9
A	 270A	 271A	 272A	 273A	 274A	 275A	 276A	 277A	 278A	 279A	 27AA	 27BA
B	 270B	 271B	 272B	 273B	 274B	 275B	 276B	 277B	 278B	 279B	 27AB	 27BB
C	 270C	 271C	 272C	 273C	 274C	 275C	 276C	 277C	 278C	 279C	 27AC	 27BC
D	 270D	 271D	 272D	 273D	 274D	 275D	 276D	 277D	 278D	 279D	 27AD	 27BD
E	 270E	 271E	 272E	 273E	 274E	 275E	 276E	 277E	 278E	 279E	 27AE	 27BE
F	 270F	 271F	 272F	 273F	 274F	 275F	 276F	 277F	 278F	 279F	 27AF	

ITC Zapf dingbats series 100. Some of the ITC Zapf dingbats have been unified with geometric shape characters. Gaps in the chart have subsequently been filled with other dingbat-like symbols.

**Miscellaneous**

- 2701 ✂ UPPER BLADE SCISSORS  
 2702 ✂ BLACK SCISSORS  
 2703 ✂ LOWER BLADE SCISSORS  
 2704 ✂ WHITE SCISSORS  
 2705 ✓ WHITE HEAVY CHECK MARK  
 → 2714 ✓ heavy check mark  
 = e-B4A  
 2706 ☎ TELEPHONE LOCATION SIGN  
 → 2121 TEL telephone sign  
 2707 📼 TAPE DRIVE  
 2708 ✈ AIRPLANE  
 2709 ✉ ENVELOPE  
 270A 🤜 RAISED FIST  
 = rock in Rock, Paper, Scissors game  
 → 270B 🤝 raised hand  
 → 270C 🤛 victory hand  
 = e-B93  
 270B 🤝 RAISED HAND  
 = paper in Rock, Paper, Scissors game  
 → 270A 🤜 raised fist  
 → 270C 🤛 victory hand  
 = e-B95  
 270C 🤛 VICTORY HAND  
 270D 🖊 WRITING HAND  
 270E ✎ LOWER RIGHT PENCIL  
 270F ✎ PENCIL  
 2710 ✎ UPPER RIGHT PENCIL  
 2711 ☞ WHITE NIB  
 2712 ☛ BLACK NIB  
 2713 ✓ CHECK MARK  
 → 221A ✓ square root  
 2714 ✓ HEAVY CHECK MARK  
 2715 ✖ MULTIPLICATION X  
 → 00D7 ✖ multiplication sign  
 → 2573 ✖ box drawings light diagonal cross  
 2716 ✖ HEAVY MULTIPLICATION X  
 2717 ✖ BALLOT X  
 → 2613 ✖ saltire  
 2718 ✖ HEAVY BALLOT X

**Crosses**

- 2719 ✚ OUTLINED GREEK CROSS  
 271A ✚ HEAVY GREEK CROSS  
 271B ✚ OPEN CENTRE CROSS  
 271C ✚ HEAVY OPEN CENTRE CROSS  
 271D ✚ LATIN CROSS  
 271E ✚ SHADOWED WHITE LATIN CROSS  
 271F ✚ OUTLINED LATIN CROSS  
 2720 ✚ MALTESE CROSS  
 • Historically, the Maltese cross took many forms; the shape shown in the Zapf Dingbats is similar to one known as the Cross Formée.
















**Stars, asterisks and snowflakes**

- 2721 ☆ STAR OF DAVID
























- 2722 ✚ FOUR TEARDROP-SPOKED ASTERISK  
 2723 ✚ FOUR BALLOON-SPOKED ASTERISK  
 2724 ✚ HEAVY FOUR BALLOON-SPOKED ASTERISK  
 2725 ✚ FOUR CLUB-SPOKED ASTERISK  
 2726 ◆ BLACK FOUR POINTED STAR  
 2727 ◇ WHITE FOUR POINTED STAR  
 2728 ✨ SPARKLES  
 = e-B60  
 2729 ☆ STRESS OUTLINED WHITE STAR  
 → 2606 ☆ white star  
 272A ⬢ CIRCLED WHITE STAR  
 272B ☆ OPEN CENTRE BLACK STAR  
 272C ★ BLACK CENTRE WHITE STAR  
 272D ★ OUTLINED BLACK STAR  
 272E ★ HEAVY OUTLINED BLACK STAR  
 272F ★ PINWHEEL STAR  
 2730 ☆ SHADOWED WHITE STAR  
 2731 \* HEAVY ASTERISK  
 → 002A \* asterisk  
 2732 \* OPEN CENTRE ASTERISK  
 2733 \* EIGHT SPOKED ASTERISK  
 2734 \* EIGHT POINTED BLACK STAR  
 2735 \* EIGHT POINTED PINWHEEL STAR  
 2736 \* SIX POINTED BLACK STAR  
 = sextile  
 2737 \* EIGHT POINTED RECTILINEAR BLACK STAR  
 2738 \* HEAVY EIGHT POINTED RECTILINEAR BLACK STAR  
 2739 \* TWELVE POINTED BLACK STAR  
 273A \* SIXTEEN POINTED ASTERISK  
 = starburst  
 273B \* TEARDROP-SPOKED ASTERISK  
 273C \* OPEN CENTRE TEARDROP-SPOKED ASTERISK  
 273D \* HEAVY TEARDROP-SPOKED ASTERISK  
 273E \* SIX PETALLED BLACK AND WHITE FLORETTE  
 273F \* BLACK FLORETTE  
 2740 \* WHITE FLORETTE  
 2741 \* EIGHT PETALLED OUTLINED BLACK FLORETTE  
 2742 \* CIRCLED OPEN CENTRE EIGHT POINTED STAR  
 2743 \* HEAVY TEARDROP-SPOKED PINWHEEL ASTERISK  
 2744 \* SNOWFLAKE  
 2745 \* TIGHT TRIFOLIATE SNOWFLAKE  
 2746 \* HEAVY CHEVRON SNOWFLAKE  
 2747 \* SPARKLE  
 2748 \* HEAVY SPARKLE  
 2749 \* BALLOON-SPOKED ASTERISK  
 = jack  
 274A \* EIGHT TEARDROP-SPOKED PROPELLER ASTERISK  
 274B \* HEAVY EIGHT TEARDROP-SPOKED PROPELLER ASTERISK  
 = turbofan

**Miscellaneous**





- 274C ✖ CROSS MARK  
 • forms a pair with 2B55 ○ heavy large circle  
 = e-B45  
 274D ○ SHADOWED WHITE CIRCLE  
 274E ☒ NEGATIVE SQUARED CROSS MARK  
 = e-B46





















- 274F  LOWER RIGHT DROP-SHADOWED WHITE SQUARE
- 2750  UPPER RIGHT DROP-SHADOWED WHITE SQUARE
- 2751  LOWER RIGHT SHADOWED WHITE SQUARE
- 2752  UPPER RIGHT SHADOWED WHITE SQUARE
- 2753  BLACK QUESTION MARK ORNAMENT  
= e-B09
- 2754  WHITE QUESTION MARK ORNAMENT  
= e-B0A
- 2755  WHITE EXCLAMATION MARK ORNAMENT  
→ 2762  heavy exclamation mark ornament  
→ 2757  heavy exclamation mark symbol  
= e-B0B
- 2756  BLACK DIAMOND MINUS WHITE X
- 2757  HEAVY EXCLAMATION MARK SYMBOL  
= obstacles on the road, ARIB STD B24
- 2758  LIGHT VERTICAL BAR  
→ 007C  vertical line
- 2759  MEDIUM VERTICAL BAR
- 275A  HEAVY VERTICAL BAR

**Punctuation ornaments**

























- 275B  HEAVY SINGLE TURNED COMMA QUOTATION MARK ORNAMENT  
→ 2018  left single quotation mark
- 275C  HEAVY SINGLE COMMA QUOTATION MARK ORNAMENT  
→ 2019  right single quotation mark
- 275D  HEAVY DOUBLE TURNED COMMA QUOTATION MARK ORNAMENT  
→ 201C  left double quotation mark
- 275E  HEAVY DOUBLE COMMA QUOTATION MARK ORNAMENT  
→ 201D  right double quotation mark
- 275F  HEAVY LOW SINGLE COMMA QUOTATION MARK ORNAMENT  
→ 201A  single low-9 quotation mark
- 2760  HEAVY LOW DOUBLE COMMA QUOTATION MARK ORNAMENT  
→ 201E  double low-9 quotation mark
- 2761  CURVED STEM PARAGRAPH SIGN ORNAMENT  
→ 00B6  pilcrow sign
- 2762  HEAVY EXCLAMATION MARK ORNAMENT  
→ 0021  exclamation mark
- 2763  HEAVY HEART EXCLAMATION MARK ORNAMENT
- 2764  HEAVY BLACK HEART  
→ 2665  black heart suit
- 2765  ROTATED HEAVY BLACK HEART BULLET
- 2766  FLORAL HEART  
= Aldus leaf
- 2767  ROTATED FLORAL HEART BULLET  
= hederia, ivy leaf  
→ 2619  reversed rotated floral heart bullet

**Ornamental brackets**

- 2768  MEDIUM LEFT PARENTHESIS ORNAMENT  
→ 0028  left parenthesis
- 2769  MEDIUM RIGHT PARENTHESIS ORNAMENT  
→ 0029  right parenthesis

- 276A  MEDIUM FLATTENED LEFT PARENTHESIS ORNAMENT
- 276B  MEDIUM FLATTENED RIGHT PARENTHESIS ORNAMENT
- 276C  MEDIUM LEFT-POINTING ANGLE BRACKET ORNAMENT  
→ 2329  left-pointing angle bracket
- 276D  MEDIUM RIGHT-POINTING ANGLE BRACKET ORNAMENT  
→ 232A  right-pointing angle bracket
- 276E  HEAVY LEFT-POINTING ANGLE QUOTATION MARK ORNAMENT  
→ 2039  single left-pointing angle quotation mark
- 276F  HEAVY RIGHT-POINTING ANGLE QUOTATION MARK ORNAMENT  
→ 203A  single right-pointing angle quotation mark
- 2770  HEAVY LEFT-POINTING ANGLE BRACKET ORNAMENT
- 2771  HEAVY RIGHT-POINTING ANGLE BRACKET ORNAMENT
- 2772  LIGHT LEFT TORTOISE SHELL BRACKET ORNAMENT  
→ 3014  left tortoise shell bracket
- 2773  LIGHT RIGHT TORTOISE SHELL BRACKET ORNAMENT  
→ 3015  right tortoise shell bracket
- 2774  MEDIUM LEFT CURLY BRACKET ORNAMENT  
→ 007B  left curly bracket
- 2775  MEDIUM RIGHT CURLY BRACKET ORNAMENT  
→ 007D  right curly bracket

**Dingbat circled digits**

- 2776  DINGBAT NEGATIVE CIRCLED DIGIT ONE
- 2777  DINGBAT NEGATIVE CIRCLED DIGIT TWO
- 2778  DINGBAT NEGATIVE CIRCLED DIGIT THREE
- 2779  DINGBAT NEGATIVE CIRCLED DIGIT FOUR
- 277A  DINGBAT NEGATIVE CIRCLED DIGIT FIVE
- 277B  DINGBAT NEGATIVE CIRCLED DIGIT SIX
- 277C  DINGBAT NEGATIVE CIRCLED DIGIT SEVEN
- 277D  DINGBAT NEGATIVE CIRCLED DIGIT EIGHT
- 277E  DINGBAT NEGATIVE CIRCLED DIGIT NINE
- 277F  DINGBAT NEGATIVE CIRCLED NUMBER TEN
- 2780  DINGBAT CIRCLED SANS-SERIF DIGIT ONE
- 2781  DINGBAT CIRCLED SANS-SERIF DIGIT TWO
- 2782  DINGBAT CIRCLED SANS-SERIF DIGIT THREE
- 2783  DINGBAT CIRCLED SANS-SERIF DIGIT FOUR
- 2784  DINGBAT CIRCLED SANS-SERIF DIGIT FIVE
- 2785  DINGBAT CIRCLED SANS-SERIF DIGIT SIX
- 2786  DINGBAT CIRCLED SANS-SERIF DIGIT SEVEN
- 2787  DINGBAT CIRCLED SANS-SERIF DIGIT EIGHT
- 2788  DINGBAT CIRCLED SANS-SERIF DIGIT NINE
- 2789  DINGBAT CIRCLED SANS-SERIF NUMBER TEN
- 278A  DINGBAT NEGATIVE CIRCLED SANS-SERIF DIGIT ONE
- 278B  DINGBAT NEGATIVE CIRCLED SANS-SERIF DIGIT TWO
- 278C  DINGBAT NEGATIVE CIRCLED SANS-SERIF DIGIT THREE
- 278D  DINGBAT NEGATIVE CIRCLED SANS-SERIF DIGIT FOUR

278E

## Dingbats

27BE

- 278E ⑤ DINGBAT NEGATIVE CIRCLED SANS-SERIF DIGIT FIVE
- 278F ⑥ DINGBAT NEGATIVE CIRCLED SANS-SERIF DIGIT SIX
- 2790 ⑦ DINGBAT NEGATIVE CIRCLED SANS-SERIF DIGIT SEVEN
- 2791 ⑧ DINGBAT NEGATIVE CIRCLED SANS-SERIF DIGIT EIGHT
- 2792 ⑨ DINGBAT NEGATIVE CIRCLED SANS-SERIF DIGIT NINE
- 2793 ⑩ DINGBAT NEGATIVE CIRCLED SANS-SERIF NUMBER TEN

















































**Dingbat arrows**

- 2794 ➔ HEAVY WIDE-HEADED RIGHTWARDS ARROW

**Arithmetic symbols**

- 2795 + HEAVY PLUS SIGN  
= e-B51
- 2796 − HEAVY MINUS SIGN  
= e-B52
- 2797 ÷ HEAVY DIVISION SIGN  
= e-B54
- 2798 ↘ HEAVY SOUTH EAST ARROW
- 2799 ➔ HEAVY RIGHTWARDS ARROW
- 279A ↗ HEAVY NORTH EAST ARROW
- 279B ➞ DRAFTING POINT RIGHTWARDS ARROW
- 279C ➔ HEAVY ROUND-TIPPED RIGHTWARDS ARROW
- 279D ➞ TRIANGLE-HEADED RIGHTWARDS ARROW
- 279E ➞ HEAVY TRIANGLE-HEADED RIGHTWARDS ARROW
- 279F ➞ DASHED TRIANGLE-HEADED RIGHTWARDS ARROW
- 27A0 ➞ HEAVY DASHED TRIANGLE-HEADED RIGHTWARDS ARROW
- 27A1 ➞ BLACK RIGHTWARDS ARROW  
• fonts may harmonize this glyph with the style for other black arrows  
→ 2B05 ← leftwards black arrow
- 27A2 ➤ THREE-D TOP-LIGHTED RIGHTWARDS ARROWHEAD
- 27A3 ➤ THREE-D BOTTOM-LIGHTED RIGHTWARDS ARROWHEAD
- 27A4 ➤ BLACK RIGHTWARDS ARROWHEAD
- 27A5 ➤ HEAVY BLACK CURVED DOWNWARDS AND RIGHTWARDS ARROW
- 27A6 ➤ HEAVY BLACK CURVED UPWARDS AND RIGHTWARDS ARROW
- 27A7 ➤ SQUAT BLACK RIGHTWARDS ARROW
- 27A8 ➤ HEAVY CONCAVE-POINTED BLACK RIGHTWARDS ARROW
- 27A9 ⇨ RIGHT-SHADED WHITE RIGHTWARDS ARROW
- 27AA ⇨ LEFT-SHADED WHITE RIGHTWARDS ARROW
- 27AB ⇨ BACK-TILTED SHADOWED WHITE RIGHTWARDS ARROW
- 27AC ⇨ FRONT-TILTED SHADOWED WHITE RIGHTWARDS ARROW
- 27AD ⇨ HEAVY LOWER RIGHT-SHADOWED WHITE RIGHTWARDS ARROW
- 27AE ⇨ HEAVY UPPER RIGHT-SHADOWED WHITE RIGHTWARDS ARROW
- 27AF ⇨ NOTCHED LOWER RIGHT-SHADOWED WHITE RIGHTWARDS ARROW

- 27B0  <reserved>
- 27B1 ⇨ NOTCHED UPPER RIGHT-SHADOWED WHITE RIGHTWARDS ARROW
- 27B2 ⇨ CIRCLED HEAVY WHITE RIGHTWARDS ARROW
- 27B3 ➞ WHITE-FEATHERED RIGHTWARDS ARROW
- 27B4 ↘ BLACK-FEATHERED SOUTH EAST ARROW
- 27B5 ➞ BLACK-FEATHERED RIGHTWARDS ARROW
- 27B6 ↗ BLACK-FEATHERED NORTH EAST ARROW
- 27B7 ↘ HEAVY BLACK-FEATHERED SOUTH EAST ARROW
- 27B8 ➞ HEAVY BLACK-FEATHERED RIGHTWARDS ARROW
- 27B9 ↗ HEAVY BLACK-FEATHERED NORTH EAST ARROW
- 27BA ➞ TEARDROP-BARBED RIGHTWARDS ARROW
- 27BB ➞ HEAVY TEARDROP-SHANKED RIGHTWARDS ARROW
- 27BC ➞ WEDGE-TAILED RIGHTWARDS ARROW
- 27BD ➞ HEAVY WEDGE-TAILED RIGHTWARDS ARROW
- 27BE ➞ OPEN-OUTLINED RIGHTWARDS ARROW

	27C	27D	27E
0	 27C0	 27D0	 27E0
1	 27C1	 27D1	 27E1
2	 27C2	 27D2	 27E2
3	 27C3	 27D3	 27E3
4	 27C4	 27D4	 27E4
5	 27C5	 27D5	 27E5
6	 27C6	 27D6	 27E6
7	 27C7	 27D7	 27E7
8	 27C8	 27D8	 27E8
9	 27C9	 27D9	 27E9
A	 27CA	 27DA	 27EA
B	 27CB	 27DB	 27EB
C	 27CC	 27DC	 27EC
D	 27CD	 27DD	 27ED
E	 27CE	 27DE	 27EE
F	 27CF	 27DF	 27EF

**Miscellaneous symbols**

- 27C0  $\sphericalangle$  THREE DIMENSIONAL ANGLE  
• used by Euclid
- 27C1  $\triangle$  WHITE TRIANGLE CONTAINING SMALL WHITE TRIANGLE  
• used by Euclid
- 27C2  $\perp$  PERPENDICULAR  
= orthogonal to  
• relation, typeset with additional spacing  
→ 22A5  $\perp$  up tack
- 27C3  $\oslash$  OPEN SUBSET
- 27C4  $\osupset$  OPEN SUPERSET
- 27C5  $\int$  LEFT S-SHAPED BAG DELIMITER
- 27C6  $\int$  RIGHT S-SHAPED BAG DELIMITER
- 27C7  $\vee$  OR WITH DOT INSIDE
- 27C8  $\backslashsubset$  REVERSE SOLIDUS PRECEDING SUBSET
- 27C9  $\supset/$  SUPERSET PRECEDING SOLIDUS

**Vertical line operator**

- 27CA  $\vdash$  VERTICAL BAR WITH HORIZONTAL STROKE  
→ 2AF2  $\vdash$  parallel with horizontal stroke  
→ 2AF5  $\equiv$  triple vertical bar with horizontal stroke

**Division operator**

- 27CC  $\div$  LONG DIVISION  
• graphically extends over the dividend  
→ 00F7  $\div$  division sign  
→ 2215  $/$  division slash  
→ 221A  $\surd$  square root

**Miscellaneous symbol**

- 27D0  $\diamond$  WHITE DIAMOND WITH CENTRED DOT

**Operators**

- 27D1  $\wedge$  AND WITH DOT  
→ 2227  $\wedge$  logical and  
→ 2A40  $\cap$  intersection with dot
- 27D2  $\oslash$  ELEMENT OF OPENING UPWARDS  
→ 2AD9  $\oslash$  element of opening downwards
- 27D3  $\lrcorner$  LOWER RIGHT CORNER WITH DOT  
= pullback  
→ 230B  $\rfloor$  right floor
- 27D4  $\llcorner$  UPPER LEFT CORNER WITH DOT  
= pushout  
→ 2308  $\lceil$  left ceiling

**Database theory operators**

- 27D5  $\bowtie$  LEFT OUTER JOIN
- 27D6  $\bowtie$  RIGHT OUTER JOIN
- 27D7  $\bowtie$  FULL OUTER JOIN  
→ 2A1D  $\bowtie$  join

**Tacks and turnstiles**

- 27D8  $\perp$  LARGE UP TACK  
→ 22A5  $\perp$  up tack
- 27D9  $\top$  LARGE DOWN TACK  
→ 22A4  $\top$  down tack
- 27DA  $\vDash$  LEFT AND RIGHT DOUBLE TURNSTILE  
→ 22A8  $\models$  true  
→ 2AE4  $\vDash$  vertical bar double left turnstile

- 27DB  $\dashv$  LEFT AND RIGHT TACK  
→ 22A2  $\dashv$  right tack
- 27DC  $\multimap$  LEFT MULTIMAP  
→ 22B8  $\multimap$  multimap
- 27DD  $\rhd$  LONG RIGHT TACK  
→ 22A2  $\rhd$  right tack
- 27DE  $\lhd$  LONG LEFT TACK  
→ 22A3  $\lhd$  left tack
- 27DF  $\upharpoonright$  UP TACK WITH CIRCLE ABOVE  
= radial component  
→ 2AF1  $\upharpoonright$  down tack with circle below

**Modal logic operators**

- 27E0  $\lozenge$  LOZENGE DIVIDED BY HORIZONTAL RULE  
• used as form of possibility in modal logic  
→ 25CA  $\lozenge$  lozenge
- 27E1  $\diamond$  WHITE CONCAVE-SIDED DIAMOND  
= never (modal operator)
- 27E2  $\diamondleftarrow$  WHITE CONCAVE-SIDED DIAMOND WITH LEFTWARDS TICK  
= was never (modal operator)
- 27E3  $\diamondrightarrow$  WHITE CONCAVE-SIDED DIAMOND WITH RIGHTWARDS TICK  
= will never be (modal operator)
- 27E4  $\squareleftarrow$  WHITE SQUARE WITH LEFTWARDS TICK  
= was always (modal operator)  
→ 25A1  $\square$  white square
- 27E5  $\squaresquarerightarrow$  WHITE SQUARE WITH RIGHTWARDS TICK  
= will always be (modal operator)

**Mathematical brackets**

- 27E6  $\llbracket$  MATHEMATICAL LEFT WHITE SQUARE BRACKET  
= z notation left bag bracket  
→ 301A  $\llbracket$  left white square bracket
- 27E7  $\rrbracket$  MATHEMATICAL RIGHT WHITE SQUARE BRACKET  
= z notation right bag bracket  
→ 301B  $\rrbracket$  right white square bracket
- 27E8  $\langle$  MATHEMATICAL LEFT ANGLE BRACKET  
= bra  
= z notation left sequence bracket  
→ 2329  $\langle$  left-pointing angle bracket  
→ 3008  $\langle$  left angle bracket
- 27E9  $\rangle$  MATHEMATICAL RIGHT ANGLE BRACKET  
= ket  
= z notation right sequence bracket  
→ 232A  $\rangle$  right-pointing angle bracket  
→ 3009  $\rangle$  right angle bracket
- 27EA  $\langle\langle$  MATHEMATICAL LEFT DOUBLE ANGLE BRACKET  
= z notation left chevron bracket  
→ 300A  $\langle\langle$  left double angle bracket
- 27EB  $\rangle\rangle$  MATHEMATICAL RIGHT DOUBLE ANGLE BRACKET  
= z notation right chevron bracket  
→ 300B  $\rangle\rangle$  right double angle bracket
- 27EC  $\lrcorner$  MATHEMATICAL LEFT WHITE TORTOISE SHELL BRACKET  
→ 2997  $\lrcorner$  left black tortoise shell bracket  
→ 3018  $\lrcorner$  left white tortoise shell bracket

27ED     $\}$     MATHEMATICAL RIGHT WHITE TORTOISE SHELL  
BRACKET

→ 2998     $\}$     right black tortoise shell bracket

→ 3019     $\}$     right white tortoise shell bracket

















27EE     $($     MATHEMATICAL LEFT FLATTENED  
PARENTHESIS

= lgroup














27EF     $)$     MATHEMATICAL RIGHT FLATTENED  
PARENTHESIS

= rgroup



	27F
0	 27F0
1	 27F1
2	 27F2
3	 27F3
4	 27F4
5	 27F5
6	 27F6
7	 27F7
8	 27F8
9	 27F9
A	 27FA
B	 27FB
C	 27FC
D	 27FD
E	 27FE
F	 27FF

**Arrows**

- 27F0  UPWARDS QUADRUPLE ARROW  
→ 290A  upwards triple arrow  
→ 2B45  leftwards quadruple arrow
- 27F1  DOWNWARDS QUADRUPLE ARROW  
→ 290B  downwards triple arrow
- 27F2  ANTICLOCKWISE GAPPED CIRCLE ARROW  
→ 21BA  anticlockwise open circle arrow  
→ 2940  anticlockwise closed circle arrow
- 27F3  CLOCKWISE GAPPED CIRCLE ARROW  
→ 21BB  clockwise open circle arrow  
→ 2941  clockwise closed circle arrow
- 27F4  RIGHT ARROW WITH CIRCLED PLUS  
→ 2B32  left arrow with circled plus

**Long arrows**

*The long arrows are used for mapping whereas the short forms would be used in limits. They are also needed for MathML to complete mapping to the AMSA sets.*

- 27F5  LONG LEFTWARDS ARROW  
→ 2190  leftwards arrow
- 27F6  LONG RIGHTWARDS ARROW  
→ 2192  rightwards arrow
- 27F7  LONG LEFT RIGHT ARROW  
→ 2194  left right double arrow
- 27F8  LONG LEFTWARDS DOUBLE ARROW  
→ 21D0  leftwards double arrow
- 27F9  LONG RIGHTWARDS DOUBLE ARROW  
→ 21D2  rightwards double arrow
- 27FA  LONG LEFT RIGHT DOUBLE ARROW  
→ 21D4  left right double arrow
- 27FB  LONG LEFTWARDS ARROW FROM BAR  
= maps from  
→ 21A4  leftwards arrow from bar
- 27FC  LONG RIGHTWARDS ARROW FROM BAR  
= maps to  
→ 21A6  rightwards arrow from bar
- 27FD  LONG LEFTWARDS DOUBLE ARROW FROM BAR  
→ 2906  leftwards double arrow from bar
- 27FE  LONG RIGHTWARDS DOUBLE ARROW FROM BAR  
→ 2907  rightwards double arrow from bar
- 27FF  LONG RIGHTWARDS SQUIGGLE ARROW  
→ 21D0  rightwards squiggle arrow  
→ 2B33  long leftwards squiggle arrow






















































	280	281	282	283	284	285	286	287	288	289	28A	28B	28C	28D	28E	28F
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














When braille patterns are punched, the filled circles shown here correspond to punch impression.

**Braille patterns**

2800  BRAILLE PATTERN BLANK

- while this character is imaged as a fixed-width blank in many fonts, it does not act as a space

2801  BRAILLE PATTERN DOTS-1  
 2802  BRAILLE PATTERN DOTS-2  
 2803  BRAILLE PATTERN DOTS-12  
 2804  BRAILLE PATTERN DOTS-3  
 2805  BRAILLE PATTERN DOTS-13  
 2806  BRAILLE PATTERN DOTS-23  
 2807  BRAILLE PATTERN DOTS-123  
 2808  BRAILLE PATTERN DOTS-4  
 2809  BRAILLE PATTERN DOTS-14  
 280A  BRAILLE PATTERN DOTS-24  
 280B  BRAILLE PATTERN DOTS-124  
 280C  BRAILLE PATTERN DOTS-34  
 280D  BRAILLE PATTERN DOTS-134  
 280E  BRAILLE PATTERN DOTS-234  
 280F  BRAILLE PATTERN DOTS-1234  
 2810  BRAILLE PATTERN DOTS-5  
 2811  BRAILLE PATTERN DOTS-15  
 2812  BRAILLE PATTERN DOTS-25  
 2813  BRAILLE PATTERN DOTS-125  
 2814  BRAILLE PATTERN DOTS-35  
 2815  BRAILLE PATTERN DOTS-135  
 2816  BRAILLE PATTERN DOTS-235  
 2817  BRAILLE PATTERN DOTS-1235  
 2818  BRAILLE PATTERN DOTS-45  
 2819  BRAILLE PATTERN DOTS-145  
 281A  BRAILLE PATTERN DOTS-245  
 281B  BRAILLE PATTERN DOTS-1245  
 281C  BRAILLE PATTERN DOTS-345  
 281D  BRAILLE PATTERN DOTS-1345  
 281E  BRAILLE PATTERN DOTS-2345  
 281F  BRAILLE PATTERN DOTS-12345  
 2820  BRAILLE PATTERN DOTS-6  
 2821  BRAILLE PATTERN DOTS-16  
 2822  BRAILLE PATTERN DOTS-26  
 2823  BRAILLE PATTERN DOTS-126  
 2824  BRAILLE PATTERN DOTS-36  
 2825  BRAILLE PATTERN DOTS-136  
 2826  BRAILLE PATTERN DOTS-236  
 2827  BRAILLE PATTERN DOTS-1236  
 2828  BRAILLE PATTERN DOTS-46  
 2829  BRAILLE PATTERN DOTS-146  
 282A  BRAILLE PATTERN DOTS-246  
 282B  BRAILLE PATTERN DOTS-1246  
 282C  BRAILLE PATTERN DOTS-346  
 282D  BRAILLE PATTERN DOTS-1346  
 282E  BRAILLE PATTERN DOTS-2346  
 282F  BRAILLE PATTERN DOTS-12346  
 2830  BRAILLE PATTERN DOTS-56  
 2831  BRAILLE PATTERN DOTS-156  
 2832  BRAILLE PATTERN DOTS-256  
 2833  BRAILLE PATTERN DOTS-1256  
 2834  BRAILLE PATTERN DOTS-356  
 2835  BRAILLE PATTERN DOTS-1356

2836  BRAILLE PATTERN DOTS-2356  
 2837  BRAILLE PATTERN DOTS-12356  
 2838  BRAILLE PATTERN DOTS-456  
 2839  BRAILLE PATTERN DOTS-1456  
 283A  BRAILLE PATTERN DOTS-2456  
 283B  BRAILLE PATTERN DOTS-12456  
 283C  BRAILLE PATTERN DOTS-3456  
 283D  BRAILLE PATTERN DOTS-13456  
 283E  BRAILLE PATTERN DOTS-23456  
 283F  BRAILLE PATTERN DOTS-123456  
 2840  BRAILLE PATTERN DOTS-7  
 2841  BRAILLE PATTERN DOTS-17  
 2842  BRAILLE PATTERN DOTS-27  
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 2849  BRAILLE PATTERN DOTS-147  
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 284D  BRAILLE PATTERN DOTS-1347  
 284E  BRAILLE PATTERN DOTS-2347  
 284F  BRAILLE PATTERN DOTS-12347  
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 2853  BRAILLE PATTERN DOTS-1257  
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 2855  BRAILLE PATTERN DOTS-1357  
 2856  BRAILLE PATTERN DOTS-2357  
 2857  BRAILLE PATTERN DOTS-12357  
 2858  BRAILLE PATTERN DOTS-457  
 2859  BRAILLE PATTERN DOTS-1457  
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 285D  BRAILLE PATTERN DOTS-13457  
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 285F  BRAILLE PATTERN DOTS-123457  
 2860  BRAILLE PATTERN DOTS-67  
 2861  BRAILLE PATTERN DOTS-167  
 2862  BRAILLE PATTERN DOTS-267  
 2863  BRAILLE PATTERN DOTS-1267  
 2864  BRAILLE PATTERN DOTS-367  
 2865  BRAILLE PATTERN DOTS-1367  
 2866  BRAILLE PATTERN DOTS-2367  
 2867  BRAILLE PATTERN DOTS-12367  
 2868  BRAILLE PATTERN DOTS-467  
 2869  BRAILLE PATTERN DOTS-1467  
 286A  BRAILLE PATTERN DOTS-2467  
 286B  BRAILLE PATTERN DOTS-12467  
 286C  BRAILLE PATTERN DOTS-3467  
 286D  BRAILLE PATTERN DOTS-13467  
 286E  BRAILLE PATTERN DOTS-23467  
 286F  BRAILLE PATTERN DOTS-123467  
 2870  BRAILLE PATTERN DOTS-567

































































































































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287D	•••••	BRAILLE PATTERN DOTS-134567	28B8	•••••	BRAILLE PATTERN DOTS-4568
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288B	•••••	BRAILLE PATTERN DOTS-1248	28C6	•••••	BRAILLE PATTERN DOTS-2378
288C	•••••	BRAILLE PATTERN DOTS-348	28C7	•••••	BRAILLE PATTERN DOTS-12378
288D	•••••	BRAILLE PATTERN DOTS-1348	28C8	•••••	BRAILLE PATTERN DOTS-478
288E	•••••	BRAILLE PATTERN DOTS-2348	28C9	•••••	BRAILLE PATTERN DOTS-1478
288F	•••••	BRAILLE PATTERN DOTS-12348	28CA	•••••	BRAILLE PATTERN DOTS-2478
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289D	•••••	BRAILLE PATTERN DOTS-13458	28D8	•••••	BRAILLE PATTERN DOTS-4578
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28A5	•••••	BRAILLE PATTERN DOTS-1368	28E0	•••••	BRAILLE PATTERN DOTS-678
28A6	•••••	BRAILLE PATTERN DOTS-2368	28E1	•••••	BRAILLE PATTERN DOTS-1678
28A7	•••••	BRAILLE PATTERN DOTS-12368	28E2	•••••	BRAILLE PATTERN DOTS-2678
28A8	•••••	BRAILLE PATTERN DOTS-468	28E3	•••••	BRAILLE PATTERN DOTS-12678
28A9	•••••	BRAILLE PATTERN DOTS-1468	28E4	•••••	BRAILLE PATTERN DOTS-3678
28AA	•••••	BRAILLE PATTERN DOTS-2468	28E5	•••••	BRAILLE PATTERN DOTS-13678
28AB	•••••	BRAILLE PATTERN DOTS-12468	28E6	•••••	BRAILLE PATTERN DOTS-23678

28E7

## Braille Patterns

28FF

28E7	⠠⠠⠠⠠⠠⠠⠠⠠	BRAILLE PATTERN DOTS-123678
28E8	⠠⠠⠠⠠⠠⠠⠠⠠	BRAILLE PATTERN DOTS-4678
28E9	⠠⠠⠠⠠⠠⠠⠠⠠	BRAILLE PATTERN DOTS-14678
28EA	⠠⠠⠠⠠⠠⠠⠠⠠	BRAILLE PATTERN DOTS-24678
28EB	⠠⠠⠠⠠⠠⠠⠠⠠	BRAILLE PATTERN DOTS-124678
28EC	⠠⠠⠠⠠⠠⠠⠠⠠	BRAILLE PATTERN DOTS-34678
28ED	⠠⠠⠠⠠⠠⠠⠠⠠	BRAILLE PATTERN DOTS-134678
28EE	⠠⠠⠠⠠⠠⠠⠠⠠	BRAILLE PATTERN DOTS-234678
28EF	⠠⠠⠠⠠⠠⠠⠠⠠	BRAILLE PATTERN DOTS-1234678
28F0	⠠⠠⠠⠠⠠⠠⠠⠠	BRAILLE PATTERN DOTS-5678
28F1	⠠⠠⠠⠠⠠⠠⠠⠠	BRAILLE PATTERN DOTS-15678
28F2	⠠⠠⠠⠠⠠⠠⠠⠠	BRAILLE PATTERN DOTS-25678
28F3	⠠⠠⠠⠠⠠⠠⠠⠠	BRAILLE PATTERN DOTS-125678
28F4	⠠⠠⠠⠠⠠⠠⠠⠠	BRAILLE PATTERN DOTS-35678
28F5	⠠⠠⠠⠠⠠⠠⠠⠠	BRAILLE PATTERN DOTS-135678
28F6	⠠⠠⠠⠠⠠⠠⠠⠠	BRAILLE PATTERN DOTS-235678
28F7	⠠⠠⠠⠠⠠⠠⠠⠠	BRAILLE PATTERN DOTS-1235678
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28FA	⠠⠠⠠⠠⠠⠠⠠⠠	BRAILLE PATTERN DOTS-245678
28FB	⠠⠠⠠⠠⠠⠠⠠⠠	BRAILLE PATTERN DOTS-1245678
28FC	⠠⠠⠠⠠⠠⠠⠠⠠	BRAILLE PATTERN DOTS-345678
28FD	⠠⠠⠠⠠⠠⠠⠠⠠	BRAILLE PATTERN DOTS-1345678
28FE	⠠⠠⠠⠠⠠⠠⠠⠠	BRAILLE PATTERN DOTS-2345678
28FF	⠠⠠⠠⠠⠠⠠⠠⠠	BRAILLE PATTERN DOTS-12345678

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0	 2900	 2910	 2920	 2930	 2940	 2950	 2960	 2970
1	 2901	 2911	 2921	 2931	 2941	 2951	 2961	 2971
2	 2902	 2912	 2922	 2932	 2942	 2952	 2962	 2972
3	 2903	 2913	 2923	 2933	 2943	 2953	 2963	 2973
4	 2904	 2914	 2924	 2934	 2944	 2954	 2964	 2974
5	 2905	 2915	 2925	 2935	 2945	 2955	 2965	 2975
6	 2906	 2916	 2926	 2936	 2946	 2956	 2966	 2976
7	 2907	 2917	 2927	 2937	 2947	 2957	 2967	 2977
8	 2908	 2918	 2928	 2938	 2948	 2958	 2968	 2978
9	 2909	 2919	 2929	 2939	 2949	 2959	 2969	 2979
A	 290A	 291A	 292A	 293A	 294A	 295A	 296A	 297A
B	 290B	 291B	 292B	 293B	 294B	 295B	 296B	 297B
C	 290C	 291C	 292C	 293C	 294C	 295C	 296C	 297C
D	 290D	 291D	 292D	 293D	 294D	 295D	 296D	 297D
E	 290E	 291E	 292E	 293E	 294E	 295E	 296E	 297E
F	 290F	 291F	 292F	 293F	 294F	 295F	 296F	 297F

**Miscellaneous arrows**

- 2900 ⇨ RIGHTWARDS TWO-HEADED ARROW WITH VERTICAL STROKE  
= z notation partial surjection  
→ 2B34 ⇐ leftwards two-headed arrow with vertical stroke
- 2901 ⇨ RIGHTWARDS TWO-HEADED ARROW WITH DOUBLE VERTICAL STROKE  
= z notation finite surjection  
→ 2B35 ⇐ leftwards two-headed arrow with double vertical stroke
- 2902 ⇐ LEFTWARDS DOUBLE ARROW WITH VERTICAL STROKE
- 2903 ⇨ RIGHTWARDS DOUBLE ARROW WITH VERTICAL STROKE
- 2904 ⇐ LEFT RIGHT DOUBLE ARROW WITH VERTICAL STROKE
- 2905 ⇨ RIGHTWARDS TWO-HEADED ARROW FROM BAR  
= maps to  
→ 2B36 ⇐ leftwards two-headed arrow from bar
- 2906 ⇐ LEFTWARDS DOUBLE ARROW FROM BAR  
= maps from  
→ 27FB ⇐ long leftwards arrow from bar
- 2907 ⇨ RIGHTWARDS DOUBLE ARROW FROM BAR  
= maps to  
→ 27FC ⇨ long rightwards arrow from bar
- 2908 ↓ DOWNWARDS ARROW WITH HORIZONTAL STROKE
- 2909 ↑ UPWARDS ARROW WITH HORIZONTAL STROKE
- 290A ↑↑ UPWARDS TRIPLE ARROW  
→ 21D1 ↑↑ upwards double arrow  
→ 27F0 ↑↑↑ upwards quadruple arrow
- 290B ↓↓ DOWNWARDS TRIPLE ARROW  
→ 21D3 ↓↓ downwards double arrow  
→ 27F1 ↓↓↓ downwards quadruple arrow
- 290C ⇐ LEFTWARDS DOUBLE DASH ARROW
- 290D ⇨ RIGHTWARDS DOUBLE DASH ARROW
- 290E ⇐ LEFTWARDS TRIPLE DASH ARROW
- 290F ⇨ RIGHTWARDS TRIPLE DASH ARROW
- 2910 ⇨ RIGHTWARDS TWO-HEADED TRIPLE DASH ARROW  
→ 2B37 ⇐ leftwards two-headed triple dash arrow
- 2911 → RIGHTWARDS ARROW WITH DOTTED STEM  
→ 2B38 ⇐ leftwards arrow with dotted stem
- 2912 ↑ UPWARDS ARROW TO BAR
- 2913 ↓ DOWNWARDS ARROW TO BAR
- 2914 ⇨ RIGHTWARDS ARROW WITH TAIL WITH VERTICAL STROKE  
= z notation partial injection  
→ 2B39 ⇐ leftwards arrow with tail with vertical stroke
- 2915 ⇨ RIGHTWARDS ARROW WITH TAIL WITH DOUBLE VERTICAL STROKE  
= z notation finite injection  
→ 2B3A ⇐ leftwards arrow with tail with double vertical stroke
- 2916 ⇨ RIGHTWARDS TWO-HEADED ARROW WITH TAIL  
= bijective mapping  
= z notation bijection  
→ 2B3B ⇐ leftwards two-headed arrow with tail

- 2917 ⇨ RIGHTWARDS TWO-HEADED ARROW WITH TAIL WITH VERTICAL STROKE  
= z notation surjective injection  
→ 2B3C ⇐ leftwards two-headed arrow with tail with vertical stroke
- 2918 ⇨ RIGHTWARDS TWO-HEADED ARROW WITH TAIL WITH DOUBLE VERTICAL STROKE  
= z notation finite surjective injection  
→ 2B3D ⇐ leftwards two-headed arrow with tail with double vertical stroke

**Arrow tails**

- 2919 ⇐ LEFTWARDS ARROW-TAIL
- 291A ⇐ RIGHTWARDS ARROW-TAIL
- 291B ⇐ LEFTWARDS DOUBLE ARROW-TAIL
- 291C ⇐ RIGHTWARDS DOUBLE ARROW-TAIL

**Miscellaneous arrows**

- 291D ⇐ LEFTWARDS ARROW TO BLACK DIAMOND
- 291E ⇨ RIGHTWARDS ARROW TO BLACK DIAMOND
- 291F ⇐ LEFTWARDS ARROW FROM BAR TO BLACK DIAMOND
- 2920 ⇨ RIGHTWARDS ARROW FROM BAR TO BLACK DIAMOND
- 2921 ↖ NORTH WEST AND SOUTH EAST ARROW
- 2922 ↗ NORTH EAST AND SOUTH WEST ARROW
- 2923 ↖ NORTH WEST ARROW WITH HOOK
- 2924 ↗ NORTH EAST ARROW WITH HOOK
- 2925 ↘ SOUTH EAST ARROW WITH HOOK
- 2926 ↙ SOUTH WEST ARROW WITH HOOK

**Crossing arrows for knot theory**

- 2927 ✕ NORTH WEST ARROW AND NORTH EAST ARROW
- 2928 ✕ NORTH EAST ARROW AND SOUTH EAST ARROW
- 2929 ✕ SOUTH EAST ARROW AND SOUTH WEST ARROW
- 292A ✕ SOUTH WEST ARROW AND NORTH WEST ARROW
- 292B ✕ RISING DIAGONAL CROSSING FALLING DIAGONAL
- 292C ✕ FALLING DIAGONAL CROSSING RISING DIAGONAL  
→ 26CC ✕ crossing lanes
- 292D ✕ SOUTH EAST ARROW CROSSING NORTH EAST ARROW
- 292E ✕ NORTH EAST ARROW CROSSING SOUTH EAST ARROW
- 292F ✕ FALLING DIAGONAL CROSSING NORTH EAST ARROW
- 2930 ✕ RISING DIAGONAL CROSSING SOUTH EAST ARROW
- 2931 ✕ NORTH EAST ARROW CROSSING NORTH WEST ARROW
- 2932 ✕ NORTH WEST ARROW CROSSING NORTH EAST ARROW

**Miscellaneous curved arrows**

- 2933 ~ WAVE ARROW POINTING DIRECTLY RIGHT  
→ 219D ~ rightwards wave arrow  
→ 2B3F ~ wave arrow pointing directly left
- 2934 ↻ ARROW POINTING RIGHTWARDS THEN CURVING UPWARDS

- 2935 ↷ ARROW POINTING RIGHTWARDS THEN CURVING DOWNWARDS
- 2936 ↶ ARROW POINTING DOWNWARDS THEN CURVING LEFTWARDS
- 2937 ↵ ARROW POINTING DOWNWARDS THEN CURVING RIGHTWARDS
- 2938 ↷ RIGHT-SIDE ARC CLOCKWISE ARROW
- 2939 ↶ LEFT-SIDE ARC ANTICLOCKWISE ARROW
- 293A ↶ TOP ARC ANTICLOCKWISE ARROW
- 293B ↷ BOTTOM ARC ANTICLOCKWISE ARROW
- 293C ↷ TOP ARC CLOCKWISE ARROW WITH MINUS
- 293D ↶ TOP ARC ANTICLOCKWISE ARROW WITH PLUS
- 293E ↷ LOWER RIGHT SEMICIRCULAR CLOCKWISE ARROW
- 293F ↶ LOWER LEFT SEMICIRCULAR ANTICLOCKWISE ARROW
- 2940 ⌚ ANTICLOCKWISE CLOSED CIRCLE ARROW  
→ 20DA ⌚ combining anticlockwise ring overlay
- 2941 ⌚ CLOCKWISE CLOSED CIRCLE ARROW  
→ 20D9 ⌚ combining clockwise ring overlay

**Arrows combined with operators**

- 2942 ⇨ RIGHTWARDS ARROW ABOVE SHORT LEFTWARDS ARROW
- 2943 ⇨ LEFTWARDS ARROW ABOVE SHORT RIGHTWARDS ARROW
- 2944 ⇨ SHORT RIGHTWARDS ARROW ABOVE LEFTWARDS ARROW
- 2945 ⇨ RIGHTWARDS ARROW WITH PLUS BELOW
- 2946 ⇨ LEFTWARDS ARROW WITH PLUS BELOW
- 2947 ⇨ RIGHTWARDS ARROW THROUGH X  
→ 2B3E ⇨ leftwards arrow through x
- 2948 ⇨ LEFT RIGHT ARROW THROUGH SMALL CIRCLE
- 2949 ⇨ UPWARDS TWO-HEADED ARROW FROM SMALL CIRCLE

**Double-barbed harpoons**

- 294A ⇨ LEFT BARB UP RIGHT BARB DOWN HARPOON
- 294B ⇨ LEFT BARB DOWN RIGHT BARB UP HARPOON
- 294C ⇨ UP BARB RIGHT DOWN BARB LEFT HARPOON
- 294D ⇨ UP BARB LEFT DOWN BARB RIGHT HARPOON
- 294E ⇨ LEFT BARB UP RIGHT BARB UP HARPOON
- 294F ⇨ UP BARB RIGHT DOWN BARB RIGHT HARPOON
- 2950 ⇨ LEFT BARB DOWN RIGHT BARB DOWN HARPOON
- 2951 ⇨ UP BARB LEFT DOWN BARB LEFT HARPOON

**Modified harpoons**

- 2952 ⇨ LEFTWARDS HARPOON WITH BARB UP TO BAR
- 2953 ⇨ RIGHTWARDS HARPOON WITH BARB UP TO BAR
- 2954 ⇨ UPWARDS HARPOON WITH BARB RIGHT TO BAR
- 2955 ⇨ DOWNWARDS HARPOON WITH BARB RIGHT TO BAR
- 2956 ⇨ LEFTWARDS HARPOON WITH BARB DOWN TO BAR
- 2957 ⇨ RIGHTWARDS HARPOON WITH BARB DOWN TO BAR
- 2958 ⇨ UPWARDS HARPOON WITH BARB LEFT TO BAR
- 2959 ⇨ DOWNWARDS HARPOON WITH BARB LEFT TO BAR

- 295A ⇨ LEFTWARDS HARPOON WITH BARB UP FROM BAR
- 295B ⇨ RIGHTWARDS HARPOON WITH BARB UP FROM BAR
- 295C ⇨ UPWARDS HARPOON WITH BARB RIGHT FROM BAR
- 295D ⇨ DOWNWARDS HARPOON WITH BARB RIGHT FROM BAR
- 295E ⇨ LEFTWARDS HARPOON WITH BARB DOWN FROM BAR
- 295F ⇨ RIGHTWARDS HARPOON WITH BARB DOWN FROM BAR
- 2960 ⇨ UPWARDS HARPOON WITH BARB LEFT FROM BAR
- 2961 ⇨ DOWNWARDS HARPOON WITH BARB LEFT FROM BAR

**Paired harpoons**

- 2962 ⇨ LEFTWARDS HARPOON WITH BARB UP ABOVE LEFTWARDS HARPOON WITH BARB DOWN
- 2963 ⇨ UPWARDS HARPOON WITH BARB LEFT BESIDE UPWARDS HARPOON WITH BARB RIGHT
- 2964 ⇨ RIGHTWARDS HARPOON WITH BARB UP ABOVE RIGHTWARDS HARPOON WITH BARB DOWN
- 2965 ⇨ DOWNWARDS HARPOON WITH BARB LEFT BESIDE DOWNWARDS HARPOON WITH BARB RIGHT
- 2966 ⇨ LEFTWARDS HARPOON WITH BARB UP ABOVE RIGHTWARDS HARPOON WITH BARB UP
- 2967 ⇨ LEFTWARDS HARPOON WITH BARB DOWN ABOVE RIGHTWARDS HARPOON WITH BARB DOWN
- 2968 ⇨ RIGHTWARDS HARPOON WITH BARB UP ABOVE LEFTWARDS HARPOON WITH BARB UP
- 2969 ⇨ RIGHTWARDS HARPOON WITH BARB DOWN ABOVE LEFTWARDS HARPOON WITH BARB DOWN
- 296A ⇨ LEFTWARDS HARPOON WITH BARB UP ABOVE LONG DASH
- 296B ⇨ LEFTWARDS HARPOON WITH BARB DOWN BELOW LONG DASH
- 296C ⇨ RIGHTWARDS HARPOON WITH BARB UP ABOVE LONG DASH
- 296D ⇨ RIGHTWARDS HARPOON WITH BARB DOWN BELOW LONG DASH
- 296E ⇨ UPWARDS HARPOON WITH BARB LEFT BESIDE DOWNWARDS HARPOON WITH BARB RIGHT
- 296F ⇨ DOWNWARDS HARPOON WITH BARB LEFT BESIDE UPWARDS HARPOON WITH BARB RIGHT

**Miscellaneous arrow**

- 2970 ⇨ RIGHT DOUBLE ARROW WITH ROUNDED HEAD  
→ 2283 ⇨ superset of

**Arrows combined with relations**

- 2971 ⇨ EQUALS SIGN ABOVE RIGHTWARDS ARROW  
→ 2B40 ⇨ equals sign above leftwards arrow
- 2972 ⇨ TILDE OPERATOR ABOVE RIGHTWARDS ARROW  
→ 2B41 ⇨ reverse tilde operator above leftwards arrow
- 2973 ⇨ LEFTWARDS ARROW ABOVE TILDE OPERATOR  
→ 2B4C ⇨ rightwards arrow above reverse tilde operator



2974

































































































































## Supplemental Arrows-B

297F

- 2974     $\Rightarrow$     RIGHTWARDS ARROW ABOVE TILDE OPERATOR  
           $\rightarrow$  2B4B  $\Leftarrow$  leftwards arrow above reverse tilde  
                     operator
- 2975     $\Rightarrow$     RIGHTWARDS ARROW ABOVE ALMOST EQUAL  
                     TO  
           $\rightarrow$  2B42  $\Leftarrow$  leftwards arrow above reverse almost  
                     equal to
- 2976     $\leq$     LESS-THAN ABOVE LEFTWARDS ARROW
- 2977     $\Leftarrow$     LEFTWARDS ARROW THROUGH LESS-THAN  
           $\rightarrow$  2B43  $\Rightarrow$  rightwards arrow through greater-than
- 2978     $\geq$     GREATER-THAN ABOVE RIGHTWARDS ARROW
- 2979     $\subseteq$     SUBSET ABOVE RIGHTWARDS ARROW
- 297A     $\Leftarrow$     LEFTWARDS ARROW THROUGH SUBSET  
           $\rightarrow$  2B44  $\Rightarrow$  rightwards arrow through superset
- 297B     $\supseteq$     SUPERSET ABOVE LEFTWARDS ARROW

**Fish tails**

- 297C     $\leftarrow$     LEFT FISH TAIL
- 297D     $\rightarrow$     RIGHT FISH TAIL
- 297E     $\Uparrow$     UP FISH TAIL
- 297F     $\Downarrow$     DOWN FISH TAIL

	298	299	29A	29B	29C	29D	29E	29F
0	 2980	 2990	 29A0	 29B0	 29C0	 29D0	 29E0	 29F0
1	 2981	 2991	 29A1	 29B1	 29C1	 29D1	 29E1	 29F1
2	 2982	 2992	 29A2	 29B2	 29C2	 29D2	 29E2	 29F2
3	 2983	 2993	 29A3	 29B3	 29C3	 29D3	 29E3	 29F3
4	 2984	 2994	 29A4	 29B4	 29C4	 29D4	 29E4	 29F4
5	 2985	 2995	 29A5	 29B5	 29C5	 29D5	 29E5	 29F5
6	 2986	 2996	 29A6	 29B6	 29C6	 29D6	 29E6	 29F6
7	 2987	 2997	 29A7	 29B7	 29C7	 29D7	 29E7	 29F7
8	 2988	 2998	 29A8	 29B8	 29C8	 29D8	 29E8	 29F8
9	 2989	 2999	 29A9	 29B9	 29C9	 29D9	 29E9	 29F9
A	 298A	 299A	 29AA	 29BA	 29CA	 29DA	 29EA	 29FA
B	 298B	 299B	 29AB	 29BB	 29CB	 29DB	 29EB	 29FB
C	 298C	 299C	 29AC	 29BC	 29CC	 29DC	 29EC	 29FC
D	 298D	 299D	 29AD	 29BD	 29CD	 29DD	 29ED	 29FD
E	 298E	 299E	 29AE	 29BE	 29CE	 29DE	 29EE	 29FE
F	 298F	 299F	 29AF	 29BF	 29CF	 29DF	 29EF	 29FF

**Miscellaneous mathematical symbols**

- 2980  $\equiv$  TRIPLE VERTICAL BAR DELIMITER  
 → 2AF4  $\equiv$  triple vertical bar binary relation  
 → 2AFC  $\equiv$  large triple vertical bar operator
- 2981  $\bullet$  Z NOTATION SPOT  
 • medium-small-sized black circle  
 → 2219  $\bullet$  bullet operator  
 → 25CF  $\bullet$  black circle
- 2982  $\colon$  Z NOTATION TYPE COLON  
 → 0F7F  $\colon$  tibetan sign rnam bcad

**Brackets**

- 2983  $\{$  LEFT WHITE CURLY BRACKET
- 2984  $\}$  RIGHT WHITE CURLY BRACKET
- 2985  $($  LEFT WHITE PARENTHESIS  
 → 2E28  $($  left double parenthesis  
 → FF5F  $(($  fullwidth left white parenthesis
- 2986  $)$  RIGHT WHITE PARENTHESIS  
 • used for Bourbakist intervals  
 → 2E29  $)$  right double parenthesis  
 → FF60  $)$  fullwidth right white parenthesis
- 2987  $\lceil$  Z NOTATION LEFT IMAGE BRACKET
- 2988  $\rceil$  Z NOTATION RIGHT IMAGE BRACKET
- 2989  $\lfloor$  Z NOTATION LEFT BINDING BRACKET
- 298A  $\rfloor$  Z NOTATION RIGHT BINDING BRACKET
- 298B  $[$  LEFT SQUARE BRACKET WITH UNDERBAR
- 298C  $]$  RIGHT SQUARE BRACKET WITH UNDERBAR
- 298D  $\lceil$  LEFT SQUARE BRACKET WITH TICK IN TOP CORNER
- 298E  $\rfloor$  RIGHT SQUARE BRACKET WITH TICK IN BOTTOM CORNER
- 298F  $\lceil$  LEFT SQUARE BRACKET WITH TICK IN BOTTOM CORNER
- 2990  $\rfloor$  RIGHT SQUARE BRACKET WITH TICK IN TOP CORNER
- 2991  $\langle$  LEFT ANGLE BRACKET WITH DOT
- 2992  $\rangle$  RIGHT ANGLE BRACKET WITH DOT
- 2993  $\lessgtr$  LEFT ARC LESS-THAN BRACKET
- 2994  $\gtrless$  RIGHT ARC GREATER-THAN BRACKET
- 2995  $\lessgtr$  DOUBLE LEFT ARC GREATER-THAN BRACKET
- 2996  $\gtrless$  DOUBLE RIGHT ARC LESS-THAN BRACKET
- 2997  $\ulcorner$  LEFT BLACK TORTOISE SHELL BRACKET  
 → 27EC  $\ulcorner$  mathematical left white tortoise shell bracket  
 → 3014  $\ulcorner$  left tortoise shell bracket  
 → 3018  $\ulcorner$  left white tortoise shell bracket
- 2998  $\urcorner$  RIGHT BLACK TORTOISE SHELL BRACKET

**Fences**

- 2999  $\vdots$  DOTTED FENCE  
 • four close dots vertical
- 299A  $\zigzag$  VERTICAL ZIGZAG LINE  
 → 2307  $\zigzag$  wavy line

**Angles**

- 299B  $\sphericalangle$  MEASURED ANGLE OPENING LEFT  
 → 2221  $\sphericalangle$  measured angle
- 299C  $\llcorner$  RIGHT ANGLE VARIANT WITH SQUARE  
 → 221F  $\llcorner$  right angle
- 299D  $\blacksquare$  MEASURED RIGHT ANGLE WITH DOT









- 299E  $\sphericalangle$  ANGLE WITH S INSIDE
- 299F  $\sphericalangle$  ACUTE ANGLE
- 29A0  $\sphericalangle$  SPHERICAL ANGLE OPENING LEFT  
 → 2222  $\sphericalangle$  spherical angle
- 29A1  $\sphericalangle$  SPHERICAL ANGLE OPENING UP
- 29A2  $\sphericalangle$  TURNED ANGLE  
 → 2220  $\sphericalangle$  angle
- 29A3  $\sphericalangle$  REVERSED ANGLE
- 29A4  $\sphericalangle$  ANGLE WITH UNDERBAR
- 29A5  $\sphericalangle$  REVERSED ANGLE WITH UNDERBAR
- 29A6  $\sphericalangle$  OBLIQUE ANGLE OPENING UP
- 29A7  $\sphericalangle$  OBLIQUE ANGLE OPENING DOWN
- 29A8  $\sphericalangle$  MEASURED ANGLE WITH OPEN ARM ENDING IN ARROW POINTING UP AND RIGHT
- 29A9  $\sphericalangle$  MEASURED ANGLE WITH OPEN ARM ENDING IN ARROW POINTING UP AND LEFT
- 29AA  $\sphericalangle$  MEASURED ANGLE WITH OPEN ARM ENDING IN ARROW POINTING DOWN AND RIGHT
- 29AB  $\sphericalangle$  MEASURED ANGLE WITH OPEN ARM ENDING IN ARROW POINTING DOWN AND LEFT
- 29AC  $\sphericalangle$  MEASURED ANGLE WITH OPEN ARM ENDING IN ARROW POINTING RIGHT AND UP
- 29AD  $\sphericalangle$  MEASURED ANGLE WITH OPEN ARM ENDING IN ARROW POINTING LEFT AND UP
- 29AE  $\sphericalangle$  MEASURED ANGLE WITH OPEN ARM ENDING IN ARROW POINTING RIGHT AND DOWN
- 29AF  $\sphericalangle$  MEASURED ANGLE WITH OPEN ARM ENDING IN ARROW POINTING LEFT AND DOWN

**Empty sets**











- 29B0  $\emptyset$  REVERSED EMPTY SET  
 → 2205  $\emptyset$  empty set  
 → 2349  $\emptyset$  apl functional symbol circle backslash
- 29B1  $\emptyset$  EMPTY SET WITH OVERBAR
- 29B2  $\emptyset$  EMPTY SET WITH SMALL CIRCLE ABOVE
- 29B3  $\emptyset$  EMPTY SET WITH RIGHT ARROW ABOVE
- 29B4  $\emptyset$  EMPTY SET WITH LEFT ARROW ABOVE

**Circle symbols**









- 29B5  $\ominus$  CIRCLE WITH HORIZONTAL BAR  
 → 2296  $\ominus$  circled minus
- 29B6  $\odot$  CIRCLED VERTICAL BAR
- 29B7  $\odot$  CIRCLED PARALLEL
- 29B8  $\odot$  CIRCLED REVERSE SOLIDUS
- 29B9  $\odot$  CIRCLED PERPENDICULAR
- 29BA  $\odot$  CIRCLE DIVIDED BY HORIZONTAL BAR AND TOP HALF DIVIDED BY VERTICAL BAR
- 29BB  $\otimes$  CIRCLE WITH SUPERIMPOSED X  
 → 2297  $\otimes$  circled times
- 29BC  $\otimes$  CIRCLED ANTICLOCKWISE-ROTATED DIVISION SIGN
- 29BD  $\uparrow$  UP ARROW THROUGH CIRCLE
- 29BE  $\odot$  CIRCLED WHITE BULLET  
 → 229A  $\odot$  circled ring operator  
 → 233E  $\odot$  apl functional symbol circle jot  
 → 25CE  $\odot$  bullseye

- 29BF  CIRCLED BULLET  
 • forms part of a graduated set of circles with enclosed black circle of different sizes  
 → 2299  circled dot operator  
 → 25C9  fisheye  
 → 2A00  n-ary circled dot operator
- 29C0  CIRCLED LESS-THAN  
 29C1  CIRCLED GREATER-THAN  
 29C2  CIRCLE WITH SMALL CIRCLE TO THE RIGHT  
 29C3  CIRCLE WITH TWO HORIZONTAL STROKES TO THE RIGHT












**Square symbols**

- 29C4  SQUARED RISING DIAGONAL SLASH  
 → 2341  apl functional symbol quad slash  
 → 303C  masu mark
- 29C5  SQUARED FALLING DIAGONAL SLASH  
 → 2342  apl functional symbol quad backslash
- 29C6  SQUARED ASTERISK  
 29C7  SQUARED SMALL CIRCLE  
 → 233B  apl functional symbol quad jot
- 29C8  SQUARED SQUARE  
 29C9  TWO JOINED SQUARES






**Triangle symbols**

- 29CA  TRIANGLE WITH DOT ABOVE  
 29CB  TRIANGLE WITH UNDERBAR  
 29CC  S IN TRIANGLE  
 29CD  TRIANGLE WITH SERIFS AT BOTTOM  
 → 25B3  white up-pointing triangle
- 29CE  RIGHT TRIANGLE ABOVE LEFT TRIANGLE  
 29CF  LEFT TRIANGLE BESIDE VERTICAL BAR  
 29D0  VERTICAL BAR BESIDE RIGHT TRIANGLE



**Bowtie symbols**





- 29D1  BOWTIE WITH LEFT HALF BLACK  
 → 22C8  bowtie
- 29D2  BOWTIE WITH RIGHT HALF BLACK  
 29D3  BLACK BOWTIE  
 29D4  TIMES WITH LEFT HALF BLACK  
 → 22C9  left normal factor semidirect product
- 29D5  TIMES WITH RIGHT HALF BLACK  
 → 22CA  right normal factor semidirect product
- 29D6  WHITE HOURGLASS  
 = vertical bowtie  
 = white framus  
 → 231B  hourglass
- 29D7  BLACK HOURGLASS



**Fences**





- 29D8  LEFT WIGGLY FENCE  
 → FE34  presentation form for vertical wavy low line
- 29D9  RIGHT WIGGLY FENCE  
 29DA  LEFT DOUBLE WIGGLY FENCE  
 29DB  RIGHT DOUBLE WIGGLY FENCE

**Miscellaneous mathematical symbols**








- 29DC  INCOMPLETE INFINITY  
 = ISOtech entity &iinfin;  
 → 221E  infinity

- 29DD  TIE OVER INFINITY  
 29DE  INFINITY NEGATED WITH VERTICAL BAR  
 29DF  DOUBLE-ENDED MULTIMAP  
 → 22B8  multimap












- 29E0  SQUARE WITH CONTOURED OUTLINE  
 = D'Alembertian  
 → 274F  lower right drop-shadowed white square

- 29E1  INCREASES AS  
 → 22B4  normal subgroup of or equal to
- 29E2  SHUFFLE PRODUCT  
 → 22FF  z notation bag membership







**Relations**

- 29E3  EQUALS SIGN AND SLANTED PARALLEL  
 → 0023  number sign  
 → 22D5  equal and parallel to
- 29E4  EQUALS SIGN AND SLANTED PARALLEL WITH TILDE ABOVE  
 29E5  IDENTICAL TO AND SLANTED PARALLEL  
 → 2A68  triple horizontal bar with double vertical stroke
- 29E6  GLEICH STARK  
 = tautological equivalent








**Miscellaneous mathematical symbols**

- 29E7  THERMODYNAMIC  
 • vertical bar crossed by two horizontals  
 → 2260  not equal to
- 29E8  DOWN-POINTING TRIANGLE WITH LEFT HALF BLACK  
 → 25ED  up-pointing triangle with left half black
- 29E9  DOWN-POINTING TRIANGLE WITH RIGHT HALF BLACK  
 → 25EE  up-pointing triangle with right half black
- 29EA  BLACK DIAMOND WITH DOWN ARROW  
 29EB  BLACK LOZENGE  
 → 25CA  lozenge
- 29EC  WHITE CIRCLE WITH DOWN ARROW  
 29ED  BLACK CIRCLE WITH DOWN ARROW

**Error bar symbols**

- 29EE  ERROR-BARRED WHITE SQUARE  
 29EF  ERROR-BARRED BLACK SQUARE  
 29F0  ERROR-BARRED WHITE DIAMOND  
 29F1  ERROR-BARRED BLACK DIAMOND  
 29F2  ERROR-BARRED WHITE CIRCLE  
 29F3  ERROR-BARRED BLACK CIRCLE

**Miscellaneous mathematical symbols**

- 29F4  RULE-DELAYED  
 = colon right arrow
- 29F5  REVERSE SOLIDUS OPERATOR  
 → 005C  reverse solidus  
 → 2216  set minus
- 29F6  SOLIDUS WITH OVERBAR  
 29F7  REVERSE SOLIDUS WITH HORIZONTAL STROKE  
 → 2340  apl functional symbol backslash bar

29F8

## Miscellaneous Mathematical Symbols-B

29FF

**Large operators**

- 29F8    /    BIG SOLIDUS  
           → 2215 / division slash
- 29F9    \    BIG REVERSE SOLIDUS  
           = z notation schema hiding  
           → 2216 \ set minus

**Specialized plus sign operators**

































































































































































































































































- 29FA    #    DOUBLE PLUS
- 29FB    ##    TRIPLE PLUS

**Brackets**

- 29FC    <    LEFT-POINTING CURVED ANGLE BRACKET  
           → 227A < precedes  
           → 2329 < left-pointing angle bracket
- 29FD    >    RIGHT-POINTING CURVED ANGLE BRACKET  
           → 227B > succeeds  
           → 232A > right-pointing angle bracket

**Miscellaneous mathematical symbols**

- 29FE    +    TINY  
           → 002B + plus sign
- 29FF    -    MINY  
           → 2212 - minus sign

	2A0	2A1	2A2	2A3	2A4	2A5	2A6	2A7	2A8	2A9	2AA	2AB	2AC	2AD	2AE	2AF
0	 2A00	 2A10	 2A20	 2A30	 2A40	 2A50	 2A60	 2A70	 2A80	 2A90	 2AA0	 2AB0	 2AC0	 2AD0	 2AE0	 2AF0
1	 2A01	 2A11	 2A21	 2A31	 2A41	 2A51	 2A61	 2A71	 2A81	 2A91	 2AA1	 2AB1	 2AC1	 2AD1	 2AE1	 2AF1
2	 2A02	 2A12	 2A22	 2A32	 2A42	 2A52	 2A62	 2A72	 2A82	 2A92	 2AA2	 2AB2	 2AC2	 2AD2	 2AE2	 2AF2
3	 2A03	 2A13	 2A23	 2A33	 2A43	 2A53	 2A63	 2A73	 2A83	 2A93	 2AA3	 2AB3	 2AC3	 2AD3	 2AE3	 2AF3
4	 2A04	 2A14	 2A24	 2A34	 2A44	 2A54	 2A64	 2A74	 2A84	 2A94	 2AA4	 2AB4	 2AC4	 2AD4	 2AE4	 2AF4
5	 2A05	 2A15	 2A25	 2A35	 2A45	 2A55	 2A65	 2A75	 2A85	 2A95	 2AA5	 2AB5	 2AC5	 2AD5	 2AE5	 2AF5
6	 2A06	 2A16	 2A26	 2A36	 2A46	 2A56	 2A66	 2A76	 2A86	 2A96	 2AA6	 2AB6	 2AC6	 2AD6	 2AE6	 2AF6
7	 2A07	 2A17	 2A27	 2A37	 2A47	 2A57	 2A67	 2A77	 2A87	 2A97	 2AA7	 2AB7	 2AC7	 2AD7	 2AE7	 2AF7
8	 2A08	 2A18	 2A28	 2A38	 2A48	 2A58	 2A68	 2A78	 2A88	 2A98	 2AA8	 2AB8	 2AC8	 2AD8	 2AE8	 2AF8
9	 2A09	 2A19	 2A29	 2A39	 2A49	 2A59	 2A69	 2A79	 2A89	 2A99	 2AA9	 2AB9	 2AC9	 2AD9	 2AE9	 2AF9
A	 2A0A	 2A1A	 2A2A	 2A3A	 2A4A	 2A5A	 2A6A	 2A7A	 2A8A	 2A9A	 2AAA	 2ABA	 2ACA	 2ADA	 2AEA	 2AFA
B	 2A0B	 2A1B	 2A2B	 2A3B	 2A4B	 2A5B	 2A6B	 2A7B	 2A8B	 2A9B	 2AAB	 2ABB	 2ACB	 2ADB	 2AEB	 2AFB
C	 2A0C	 2A1C	 2A2C	 2A3C	 2A4C	 2A5C	 2A6C	 2A7C	 2A8C	 2A9C	 2AAC	 2ABC	 2ACC	 2ADC	 2AEC	 2AFC
D	 2A0D	 2A1D	 2A2D	 2A3D	 2A4D	 2A5D	 2A6D	 2A7D	 2A8D	 2A9D	 2AAD	 2ABD	 2ACD	 2ADD	 2AED	 2AFD
E	 2A0E	 2A1E	 2A2E	 2A3E	 2A4E	 2A5E	 2A6E	 2A7E	 2A8E	 2A9E	 2AAE	 2ABE	 2ACE	 2ADE	 2AEE	 2AFE
F	 2A0F	 2A1F	 2A2F	 2A3F	 2A4F	 2A5F	 2A6F	 2A7F	 2A8F	 2A9F	 2AAF	 2ABF	 2ACF	 2ADF	 2AEF	 2AFF

**N-ary operators**

- 2A00  $\odot$  N-ARY CIRCLED DOT OPERATOR  
 → 2299  $\odot$  circled dot operator  
 → 25C9  $\odot$  fisheye
- 2A01  $\oplus$  N-ARY CIRCLED PLUS OPERATOR  
 → 2295  $\oplus$  circled plus
- 2A02  $\otimes$  N-ARY CIRCLED TIMES OPERATOR  
 → 2297  $\otimes$  circled times  
 → 2B59  $\otimes$  heavy circled saltire
- 2A03  $\cup$  N-ARY UNION OPERATOR WITH DOT
- 2A04  $\cup$  N-ARY UNION OPERATOR WITH PLUS  
 → 228E  $\cup$  multiset union
- 2A05  $\sqcap$  N-ARY SQUARE INTERSECTION OPERATOR  
 → 2293  $\sqcap$  square cap
- 2A06  $\sqcup$  N-ARY SQUARE UNION OPERATOR  
 → 2294  $\sqcup$  square cup
- 2A07  $\mathrel{\wedge}$  TWO LOGICAL AND OPERATOR  
 = merge  
 → 2A55  $\mathrel{\wedge}$  two intersecting logical and
- 2A08  $\mathrel{\vee}$  TWO LOGICAL OR OPERATOR  
 → 2A56  $\mathrel{\vee}$  two intersecting logical or
- 2A09  $\times$  N-ARY TIMES OPERATOR  
 → 00D7  $\times$  multiplication sign

**Summations and integrals**

- 2A0A  $\sum$  MODULO TWO SUM  
 → 2211  $\sum$  n-ary summation
- 2A0B  $\int$  SUMMATION WITH INTEGRAL
- 2A0C  $\iiint$  QUADRUPLE INTEGRAL OPERATOR  
 → 222D  $\iiint$  triple integral  
 ≈ 222B  $\int \int \int \int$
- 2A0D  $\int$  FINITE PART INTEGRAL
- 2A0E  $\int$  INTEGRAL WITH DOUBLE STROKE
- 2A0F  $\int$  INTEGRAL AVERAGE WITH SLASH
- 2A10  $\int$  CIRCULATION FUNCTION
- 2A11  $\int$  ANTICLOCKWISE INTEGRATION
- 2A12  $\int$  LINE INTEGRATION WITH RECTANGULAR PATH AROUND POLE
- 2A13  $\int$  LINE INTEGRATION WITH SEMICIRCULAR PATH AROUND POLE
- 2A14  $\int$  LINE INTEGRATION NOT INCLUDING THE POLE
- 2A15  $\oint$  INTEGRAL AROUND A POINT OPERATOR  
 → 222E  $\oint$  contour integral
- 2A16  $\oint$  QUATERNION INTEGRAL OPERATOR
- 2A17  $\int$  INTEGRAL WITH LEFTWARDS ARROW WITH HOOK
- 2A18  $\int$  INTEGRAL WITH TIMES SIGN
- 2A19  $\int$  INTEGRAL WITH INTERSECTION
- 2A1A  $\int$  INTEGRAL WITH UNION
- 2A1B  $\int$  INTEGRAL WITH OVERBAR  
 = upper integral
- 2A1C  $\int$  INTEGRAL WITH UNDERBAR  
 = lower integral

**Miscellaneous large operators**

- 2A1D  $\bowtie$  JOIN  
 = large bowtie  
 • relational database theory  
 → 22C8  $\bowtie$  bowtie  
 → 27D7  $\bowtie$  full outer join

- 2A1E  $\triangleleft$  LARGE LEFT TRIANGLE OPERATOR  
 • relational database theory  
 → 25C1  $\triangleleft$  white left-pointing triangle
- 2A1F  $\mathrel{\circlearrowleft}$  Z NOTATION SCHEMA COMPOSITION  
 → 2A3E  $\mathrel{\circlearrowleft}$  z notation relational composition
- 2A20  $\gg$  Z NOTATION SCHEMA PIPING  
 → 226B  $\gg$  much greater-than
- 2A21  $\upharpoonright$  Z NOTATION SCHEMA PROJECTION  
 → 21BE  $\upharpoonright$  upwards harpoon with barb rightwards

**Plus and minus sign operators**

- 2A22  $\text{+}$  PLUS SIGN WITH SMALL CIRCLE ABOVE
- 2A23  $\text{+}$  PLUS SIGN WITH CIRCUMFLEX ACCENT ABOVE
- 2A24  $\text{+}$  PLUS SIGN WITH TILDE ABOVE  
 = positive difference or sum
- 2A25  $\text{+}$  PLUS SIGN WITH DOT BELOW  
 → 2214  $\text{+}$  dot plus
- 2A26  $\text{+}$  PLUS SIGN WITH TILDE BELOW  
 = sum or positive difference
- 2A27  $\text{+}$  PLUS SIGN WITH SUBSCRIPT TWO  
 = nim-addition
- 2A28  $\text{+}$  PLUS SIGN WITH BLACK TRIANGLE
- 2A29  $\text{-}$  MINUS SIGN WITH COMMA ABOVE
- 2A2A  $\text{-}$  MINUS SIGN WITH DOT BELOW  
 → 2238  $\text{-}$  dot minus
- 2A2B  $\text{-}$  MINUS SIGN WITH FALLING DOTS
- 2A2C  $\text{-}$  MINUS SIGN WITH RISING DOTS
- 2A2D  $\text{+}$  PLUS SIGN IN LEFT HALF CIRCLE
- 2A2E  $\text{+}$  PLUS SIGN IN RIGHT HALF CIRCLE

**Multiplication and division sign operators**

- 2A2F  $\times$  VECTOR OR CROSS PRODUCT  
 → 00D7  $\times$  multiplication sign
- 2A30  $\times$  MULTIPLICATION SIGN WITH DOT ABOVE
- 2A31  $\times$  MULTIPLICATION SIGN WITH UNDERBAR
- 2A32  $\times$  SEMIDIRECT PRODUCT WITH BOTTOM CLOSED
- 2A33  $\otimes$  SMASH PRODUCT
- 2A34  $\otimes$  MULTIPLICATION SIGN IN LEFT HALF CIRCLE
- 2A35  $\otimes$  MULTIPLICATION SIGN IN RIGHT HALF CIRCLE
- 2A36  $\otimes$  CIRCLED MULTIPLICATION SIGN WITH CIRCUMFLEX ACCENT
- 2A37  $\otimes$  MULTIPLICATION SIGN IN DOUBLE CIRCLE
- 2A38  $\oslash$  CIRCLED DIVISION SIGN

**Miscellaneous mathematical operators**

- 2A39  $\triangle$  PLUS SIGN IN TRIANGLE
- 2A3A  $\triangle$  MINUS SIGN IN TRIANGLE
- 2A3B  $\triangle$  MULTIPLICATION SIGN IN TRIANGLE
- 2A3C  $\lrcorner$  INTERIOR PRODUCT  
 → 230B  $\lrcorner$  right floor
- 2A3D  $\llcorner$  RIGHTHAND INTERIOR PRODUCT  
 → 230A  $\llcorner$  left floor  
 → 2319  $\llcorner$  turned not sign
- 2A3E  $\mathrel{\circlearrowleft}$  Z NOTATION RELATIONAL COMPOSITION  
 → 2A1F  $\mathrel{\circlearrowleft}$  z notation schema composition
- 2A3F  $\amalg$  AMALGAMATION OR COPRODUCT  
 → 2210  $\amalg$  n-ary coproduct

**Intersections and unions**

2A40	$\cap$	INTERSECTION WITH DOT → 2227 $\wedge$ logical and → 2701 $\mathcal{A}$ and with dot
2A41	$\cup$	UNION WITH MINUS SIGN = z notation bag subtraction → 228E $\mathcal{U}$ multiset union
2A42	$\bar{\cup}$	UNION WITH OVERBAR
2A43	$\bar{\cap}$	INTERSECTION WITH OVERBAR
2A44	$\sqcap$	INTERSECTION WITH LOGICAL AND
2A45	$\sqcup$	UNION WITH LOGICAL OR
2A46	$\mathbb{X}$	UNION ABOVE INTERSECTION
2A47	$\mathcal{C}$	INTERSECTION ABOVE UNION
2A48	$\mathbb{X}$	UNION ABOVE BAR ABOVE INTERSECTION
2A49	$\mathcal{C}$	INTERSECTION ABOVE BAR ABOVE UNION
2A4A	$\mathcal{U}$	UNION BESIDE AND JOINED WITH UNION
2A4B	$\mathcal{C}$	INTERSECTION BESIDE AND JOINED WITH INTERSECTION
2A4C	$\sqcup$	CLOSED UNION WITH SERIFS → 222A $\mathcal{U}$ union
2A4D	$\sqcap$	CLOSED INTERSECTION WITH SERIFS → 2229 $\cap$ intersection
2A4E	$\boxplus$	DOUBLE SQUARE INTERSECTION
2A4F	$\boxcup$	DOUBLE SQUARE UNION
2A50	$\boxtimes$	CLOSED UNION WITH SERIFS AND SMASH PRODUCT

**Logical ands and ors**

2A51	$\mathbb{A}$	LOGICAL AND WITH DOT ABOVE
2A52	$\mathbb{V}$	LOGICAL OR WITH DOT ABOVE
2A53	$\mathbb{A}$	DOUBLE LOGICAL AND
2A54	$\mathbb{V}$	DOUBLE LOGICAL OR
2A55	$\mathbb{A}$	TWO INTERSECTING LOGICAL AND → 2A07 $\mathbb{A}$ two logical and operator
2A56	$\mathbb{V}$	TWO INTERSECTING LOGICAL OR → 2A08 $\mathbb{V}$ two logical or operator
2A57	$\mathbb{V}$	SLOPING LARGE OR
2A58	$\mathbb{A}$	SLOPING LARGE AND
2A59	$\mathbb{X}$	LOGICAL OR OVERLAPPING LOGICAL AND
2A5A	$\mathbb{A}$	LOGICAL AND WITH MIDDLE STEM
2A5B	$\mathbb{V}$	LOGICAL OR WITH MIDDLE STEM
2A5C	$\mathbb{A}$	LOGICAL AND WITH HORIZONTAL DASH
2A5D	$\mathbb{V}$	LOGICAL OR WITH HORIZONTAL DASH
2A5E	$\mathbb{A}$	LOGICAL AND WITH DOUBLE OVERBAR → 2306 $\mathbb{A}$ perspective
2A5F	$\mathbb{A}$	LOGICAL AND WITH UNDERBAR
2A60	$\mathbb{A}$	LOGICAL AND WITH DOUBLE UNDERBAR → 2259 $\mathbb{A}$ estimates
2A61	$\mathbb{V}$	SMALL VEE WITH UNDERBAR → 225A $\mathbb{V}$ equiangular to
2A62	$\mathbb{V}$	LOGICAL OR WITH DOUBLE OVERBAR
2A63	$\mathbb{V}$	LOGICAL OR WITH DOUBLE UNDERBAR → 225A $\mathbb{V}$ equiangular to

**Miscellaneous mathematical operators**

2A64	$\triangleleft$	Z NOTATION DOMAIN ANTIRESTRICTION
2A65	$\triangleright$	Z NOTATION RANGE ANTIRESTRICTION → 2332 $\triangleright$ conical taper

**Relational operators**

2A66	$\mathbb{=}$	EQUALS SIGN WITH DOT BELOW → 2250 $\mathbb{=}$ approaches the limit
2A67	$\mathbb{=}$	IDENTICAL WITH DOT ABOVE
2A68	$\mathbb{=}$	TRIPLE HORIZONTAL BAR WITH DOUBLE VERTICAL STROKE = identical and parallel to → 2205 $\mathbb{=}$ equal and parallel to → 29E5 $\mathbb{=}$ identical to and slanted parallel
2A69	$\mathbb{=}$	TRIPLE HORIZONTAL BAR WITH TRIPLE VERTICAL STROKE
2A6A	$\sim$	TILDE OPERATOR WITH DOT ABOVE
2A6B	$\sim$	TILDE OPERATOR WITH RISING DOTS → 223B $\sim$ homothetic
2A6C	$\mathbb{=}$	SIMILAR MINUS SIMILAR
2A6D	$\mathbb{=}$	CONGRUENT WITH DOT ABOVE → 2245 $\mathbb{=}$ approximately equal to
2A6E	$\mathbb{=}$	EQUALS WITH ASTERISK → 225B $\mathbb{=}$ star equals
2A6F	$\mathbb{=}$	ALMOST EQUAL TO WITH CIRCUMFLEX ACCENT
2A70	$\mathbb{=}$	APPROXIMATELY EQUAL OR EQUAL TO
2A71	$\mathbb{=}$	EQUALS SIGN ABOVE PLUS SIGN • black stands slightly better (chess notation)
2A72	$\mathbb{=}$	PLUS SIGN ABOVE EQUALS SIGN • white stands slightly better (chess notation)
2A73	$\mathbb{=}$	EQUALS SIGN ABOVE TILDE OPERATOR
2A74	$\mathbb{=}$	DOUBLE COLON EQUAL $\approx$ 003A : 003A : 003D =
2A75	$\mathbb{=}$	TWO CONSECUTIVE EQUALS SIGNS $\approx$ 003D = 003D =
2A76	$\mathbb{=}$	THREE CONSECUTIVE EQUALS SIGNS $\approx$ 003D = 003D = 003D =
2A77	$\mathbb{=}$	EQUALS SIGN WITH TWO DOTS ABOVE AND TWO DOTS BELOW
2A78	$\mathbb{=}$	EQUIVALENT WITH FOUR DOTS ABOVE
2A79	$\mathbb{=}$	LESS-THAN WITH CIRCLE INSIDE
2A7A	$\mathbb{=}$	GREATER-THAN WITH CIRCLE INSIDE
2A7B	$\mathbb{=}$	LESS-THAN WITH QUESTION MARK ABOVE
2A7C	$\mathbb{=}$	GREATER-THAN WITH QUESTION MARK ABOVE
2A7D	$\mathbb{=}$	LESS-THAN OR SLANTED EQUAL TO → 2264 $\mathbb{=}$ less-than or equal to
2A7E	$\mathbb{=}$	GREATER-THAN OR SLANTED EQUAL TO → 2265 $\mathbb{=}$ greater-than or equal to
2A7F	$\mathbb{=}$	LESS-THAN OR SLANTED EQUAL TO WITH DOT INSIDE
2A80	$\mathbb{=}$	GREATER-THAN OR SLANTED EQUAL TO WITH DOT INSIDE
2A81	$\mathbb{=}$	LESS-THAN OR SLANTED EQUAL TO WITH DOT ABOVE
2A82	$\mathbb{=}$	GREATER-THAN OR SLANTED EQUAL TO WITH DOT ABOVE
2A83	$\mathbb{=}$	LESS-THAN OR SLANTED EQUAL TO WITH DOT ABOVE RIGHT
2A84	$\mathbb{=}$	GREATER-THAN OR SLANTED EQUAL TO WITH DOT ABOVE LEFT
2A85	$\mathbb{=}$	LESS-THAN OR APPROXIMATE
2A86	$\mathbb{=}$	GREATER-THAN OR APPROXIMATE
2A87	$\mathbb{=}$	LESS-THAN AND SINGLE-LINE NOT EQUAL TO → 2268 $\mathbb{=}$ less-than but not equal to



## 2A88

## Supplemental Mathematical Operators

## 2AD9

2A88	➤	GREATER-THAN AND SINGLE-LINE NOT EQUAL TO → 2269 ≧ greater-than but not equal to	2AAA	⋈	SMALLER THAN
2A89	⋈	LESS-THAN AND NOT APPROXIMATE	2AAB	➤	LARGER THAN
2A8A	⋈	GREATER-THAN AND NOT APPROXIMATE	2AAC	⋈	SMALLER THAN OR EQUAL TO
2A8B	⋈	LESS-THAN ABOVE DOUBLE-LINE EQUAL ABOVE GREATER-THAN → 22DA ≧ less-than equal to or greater-than	2AAD	⋈	LARGER THAN OR EQUAL TO
2A8C	⋈	GREATER-THAN ABOVE DOUBLE-LINE EQUAL ABOVE LESS-THAN → 22DB ≧ greater-than equal to or less-than	2AAE	⋈	EQUALS SIGN WITH BUMPY ABOVE
2A8D	⋈	LESS-THAN ABOVE SIMILAR OR EQUAL	2AAF	⋈	PRECEDES ABOVE SINGLE-LINE EQUALS SIGN → 227C ≧ precedes or equal to
2A8E	⋈	GREATER-THAN ABOVE SIMILAR OR EQUAL	2AB0	➤	SUCCEEDS ABOVE SINGLE-LINE EQUALS SIGN → 227D ≧ succeeds or equal to
2A8F	⋈	LESS-THAN ABOVE SIMILAR ABOVE GREATER-THAN	2AB1	⋈	PRECEDES ABOVE SINGLE-LINE NOT EQUAL TO
2A90	⋈	GREATER-THAN ABOVE SIMILAR ABOVE LESS-THAN	2AB2	⋈	SUCCEEDS ABOVE SINGLE-LINE NOT EQUAL TO
2A91	⋈	LESS-THAN ABOVE GREATER-THAN ABOVE DOUBLE-LINE EQUAL	2AB3	⋈	PRECEDES ABOVE EQUALS SIGN
2A92	⋈	GREATER-THAN ABOVE LESS-THAN ABOVE DOUBLE-LINE EQUAL	2AB4	⋈	SUCCEEDS ABOVE EQUALS SIGN
2A93	⋈	LESS-THAN ABOVE SLANTED EQUAL ABOVE GREATER-THAN ABOVE SLANTED EQUAL	2AB5	⋈	PRECEDES ABOVE NOT EQUAL TO
2A94	⋈	GREATER-THAN ABOVE SLANTED EQUAL ABOVE LESS-THAN ABOVE SLANTED EQUAL	2AB6	⋈	SUCCEEDS ABOVE NOT EQUAL TO
2A95	⋈	SLANTED EQUAL TO OR LESS-THAN → 22DC ≧ equal to or less-than	2AB7	⋈	PRECEDES ABOVE ALMOST EQUAL TO
2A96	➤	SLANTED EQUAL TO OR GREATER-THAN → 22DD ≧ equal to or greater-than	2AB8	⋈	SUCCEEDS ABOVE ALMOST EQUAL TO
2A97	⋈	SLANTED EQUAL TO OR LESS-THAN WITH DOT INSIDE	2AB9	⋈	PRECEDES ABOVE NOT ALMOST EQUAL TO
2A98	➤	SLANTED EQUAL TO OR GREATER-THAN WITH DOT INSIDE	2ABA	⋈	SUCCEEDS ABOVE NOT ALMOST EQUAL TO
2A99	⋈	DOUBLE-LINE EQUAL TO OR LESS-THAN → 22DC ≧ equal to or less-than	2ABB	⋈	DOUBLE PRECEDES
2A9A	⋈	DOUBLE-LINE EQUAL TO OR GREATER-THAN → 22DD ≧ equal to or greater-than	2ABC	➤	DOUBLE SUCCEEDS
2A9B	⋈	DOUBLE-LINE SLANTED EQUAL TO OR LESS-THAN	<b>Subset and superset relations</b>		
2A9C	⋈	DOUBLE-LINE SLANTED EQUAL TO OR GREATER-THAN	2ABD	⋈	SUBSET WITH DOT
2A9D	⋈	SIMILAR OR LESS-THAN	2ABE	⋈	SUPERSET WITH DOT
2A9E	⋈	SIMILAR OR GREATER-THAN	2ABF	⋈	SUBSET WITH PLUS SIGN BELOW
2A9F	⋈	SIMILAR ABOVE LESS-THAN ABOVE EQUALS SIGN	2AC0	⋈	SUPERSET WITH PLUS SIGN BELOW
2AA0	⋈	SIMILAR ABOVE GREATER-THAN ABOVE EQUALS SIGN	2AC1	⋈	SUBSET WITH MULTIPLICATION SIGN BELOW
2AA1	⋈	DOUBLE NESTED LESS-THAN = absolute continuity → 226A ≧ much less-than	2AC2	⋈	SUPERSET WITH MULTIPLICATION SIGN BELOW
2AA2	➤	DOUBLE NESTED GREATER-THAN → 226B ≧ much greater-than	2AC3	⋈	SUBSET OF OR EQUAL TO WITH DOT ABOVE
2AA3	⋈	DOUBLE NESTED LESS-THAN WITH UNDERBAR	2AC4	⋈	SUPERSET OF OR EQUAL TO WITH DOT ABOVE
2AA4	⋈	GREATER-THAN OVERLAPPING LESS-THAN	2AC5	⋈	SUBSET OF ABOVE EQUALS SIGN
2AA5	⋈	GREATER-THAN BESIDE LESS-THAN	2AC6	⋈	SUPERSET OF ABOVE EQUALS SIGN
2AA6	⋈	LESS-THAN CLOSED BY CURVE	2AC7	⋈	SUBSET OF ABOVE TILDE OPERATOR
2AA7	⋈	GREATER-THAN CLOSED BY CURVE	2AC8	⋈	SUPERSET OF ABOVE TILDE OPERATOR
2AA8	⋈	LESS-THAN CLOSED BY CURVE ABOVE SLANTED EQUAL	2AC9	⋈	SUBSET OF ABOVE ALMOST EQUAL TO
2AA9	➤	GREATER-THAN CLOSED BY CURVE ABOVE SLANTED EQUAL	2ACA	⋈	SUPERSET OF ABOVE ALMOST EQUAL TO
			2ACB	⋈	SUBSET OF ABOVE NOT EQUAL TO
			2ACC	⋈	SUPERSET OF ABOVE NOT EQUAL TO
			2ACD	⋈	SQUARE LEFT OPEN BOX OPERATOR
			2ACE	⋈	SQUARE RIGHT OPEN BOX OPERATOR
			2ACF	⋈	CLOSED SUBSET → 2282 ⊂ subset of
			2AD0	⋈	CLOSED SUPERSET → 2283 ⊃ superset of
			2AD1	⋈	CLOSED SUBSET OR EQUAL TO
			2AD2	⋈	CLOSED SUPERSET OR EQUAL TO
			2AD3	⋈	SUBSET ABOVE SUPERSET
			2AD4	⋈	SUPERSET ABOVE SUBSET
			2AD5	⋈	SUBSET ABOVE SUBSET
			2AD6	⋈	SUPERSET ABOVE SUPERSET
			2AD7	⋈	SUPERSET BESIDE SUBSET
			2AD8	⋈	SUPERSET BESIDE AND JOINED BY DASH WITH SUBSET
			<b>Forks</b>		
			2AD9	⋈	ELEMENT OF OPENING DOWNWARDS → 2208 ∈ element of → 27D2 ⊍ element of opening upwards

2ADA	$\pitchfork$	PITCHFORK WITH TEE TOP → 22D4 $\pitchfork$ pitchfork
2ADB	$\pitchfork$	TRANSVERSAL INTERSECTION → 22D4 $\pitchfork$ pitchfork
2ADC	$\nexists$	FORKING = not independent • an equational logic symbol, not a computing science symbol • non-independence (original concept) is related to forking ≡ 2ADD $\downarrow$ 0338 $\nexists$
2ADD	$\downarrow$	NONFORKING = independent • an equational logic symbol, not a computing science symbol • independence (original concept) is related to non-forking

**Tacks and turnstiles**

2ADE	$\dashv$	SHORT LEFT TACK → 22A3 $\dashv$ left tack
2ADF	$\dashv$	SHORT DOWN TACK → 22A4 $\dashv$ down tack
2AE0	$\dashv$	SHORT UP TACK → 22A5 $\dashv$ up tack
2AE1	$\perp$	PERPENDICULAR WITH S
2AE2	$\Vdash$	VERTICAL BAR TRIPLE RIGHT TURNSTILE = ordinarily satisfies
2AE3	$\Vdash$	DOUBLE VERTICAL BAR LEFT TURNSTILE → 22A9 $\Vdash$ forces
2AE4	$\Vdash$	VERTICAL BAR DOUBLE LEFT TURNSTILE → 22A8 $\Vdash$ true
2AE5	$\Vdash$	DOUBLE VERTICAL BAR DOUBLE LEFT TURNSTILE
2AE6	$\Vdash$	LONG DASH FROM LEFT MEMBER OF DOUBLE VERTICAL → 22A9 $\Vdash$ forces
2AE7	$\Vdash$	SHORT DOWN TACK WITH OVERBAR → 22A4 $\dashv$ down tack → 2351 $\dashv$ apl functional symbol up tack overbar
2AE8	$\Vdash$	SHORT UP TACK WITH UNDERBAR → 22A5 $\dashv$ up tack → 234A $\dashv$ apl functional symbol down tack underbar
2AE9	$\dashv$	SHORT UP TACK ABOVE SHORT DOWN TACK
2AEA	$\dashv$	DOUBLE DOWN TACK
2AEB	$\dashv$	DOUBLE UP TACK = independence • probability theory
2AEC	$\dashv$	DOUBLE STROKE NOT SIGN → 00AC $\dashv$ not sign
2AED	$\dashv$	REVERSED DOUBLE STROKE NOT SIGN → 2310 $\dashv$ reversed not sign

**Vertical line operators**

2AEE	$\nmid$	DOES NOT DIVIDE WITH REVERSED NEGATION SLASH → 2224 $\nmid$ does not divide
2AEF	$\nmid$	VERTICAL LINE WITH CIRCLE ABOVE
2AF0	$\nmid$	VERTICAL LINE WITH CIRCLE BELOW

2AF1	$\nmid$	DOWN TACK WITH CIRCLE BELOW = necessarily satisfies → 27DF $\nmid$ up tack with circle above
2AF2	$\nmid$	PARALLEL WITH HORIZONTAL STROKE → 2226 $\nmid$ not parallel to → 27CA $\nmid$ vertical bar with horizontal stroke
2AF3	$\nmid$	PARALLEL WITH TILDE OPERATOR
2AF4	$\nmid$	TRIPLE VERTICAL BAR BINARY RELATION = interleave → 2980 $\nmid$ triple vertical bar delimiter
2AF5	$\nmid$	TRIPLE VERTICAL BAR WITH HORIZONTAL STROKE → 27CA $\nmid$ vertical bar with horizontal stroke

**Miscellaneous mathematical operator**

2AF6	$\nmid$	TRIPLE COLON OPERATOR • logic → 205D $\nmid$ tricolon → 22EE $\nmid$ vertical ellipsis
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**Relations**

2AF7	$\nmid$	TRIPLE NESTED LESS-THAN → 22D8 $\nmid$ very much less-than
2AF8	$\nmid$	TRIPLE NESTED GREATER-THAN → 22D9 $\nmid$ very much greater-than
2AF9	$\nmid$	DOUBLE-LINE SLANTED LESS-THAN OR EQUAL TO → 2266 $\nmid$ less-than over equal to
2AFA	$\nmid$	DOUBLE-LINE SLANTED GREATER-THAN OR EQUAL TO → 2267 $\nmid$ greater-than over equal to
2AFB	$\nmid$	TRIPLE SOLIDUS BINARY RELATION → 2AF4 $\nmid$ triple vertical bar binary relation
























































































**Operators**

2AFC	$\nmid$	LARGE TRIPLE VERTICAL BAR OPERATOR • often n-ary → 2AF4 $\nmid$ triple vertical bar binary relation → 2980 $\nmid$ triple vertical bar delimiter
2AFD	$\nmid$	DOUBLE SOLIDUS OPERATOR → 2225 $\nmid$ parallel to
2AFE	$\nmid$	WHITE VERTICAL BAR = Dijkstra choice
2AFF	$\nmid$	N-ARY WHITE VERTICAL BAR = n-ary Dijkstra choice

2B00

## Miscellaneous Symbols and Arrows

2BFF

	2B0	2B1	2B2	2B3	2B4	2B5	2B6	2B7	2B8	2B9	2BA	2BB	2BC	2BD	2BE	2BF
0	 2B00	 2B10	 2B20	 2B30	 2B40	 2B50										
1	 2B01	 2B11	 2B21	 2B31	 2B41	 2B51										
2	 2B02	 2B12	 2B22	 2B32	 2B42	 2B52										
3	 2B03	 2B13	 2B23	 2B33	 2B43	 2B53										
4	 2B04	 2B14	 2B24	 2B34	 2B44	 2B54										
5	 2B05	 2B15	 2B25	 2B35	 2B45	 2B55										
6	 2B06	 2B16	 2B26	 2B36	 2B46	 2B56										
7	 2B07	 2B17	 2B27	 2B37	 2B47	 2B57										
8	 2B08	 2B18	 2B28	 2B38	 2B48	 2B58										
9	 2B09	 2B19	 2B29	 2B39	 2B49	 2B59										
A	 2B0A	 2B1A	 2B2A	 2B3A	 2B4A											
B	 2B0B	 2B1B	 2B2B	 2B3B	 2B4B											
C	 2B0C	 2B1C	 2B2C	 2B3C	 2B4C											
D	 2B0D	 2B1D	 2B2D	 2B3D												
E	 2B0E	 2B1E	 2B2E	 2B3E												
F	 2B0F	 2B1F	 2B2F	 2B3F												

**White and black arrows**

*Other white and black arrows to complete this set can be found in the Arrows and Dingbats blocks.*

2B00	↗	NORTH EAST WHITE ARROW
2B01	↖	NORTH WEST WHITE ARROW
2B02	↘	SOUTH EAST WHITE ARROW
2B03	↙	SOUTH WEST WHITE ARROW
2B04	↔	LEFT RIGHT WHITE ARROW
	→ 21E6 ⇐	leftwards white arrow
	→ 21F3 ⇕	up down white arrow
2B05	←	LEFTWARDS BLACK ARROW
	→ 27A1 →	black rightwards arrow
2B06	↑	UPWARDS BLACK ARROW
2B07	↓	DOWNWARDS BLACK ARROW
2B08	↗	NORTH EAST BLACK ARROW
2B09	↖	NORTH WEST BLACK ARROW
2B0A	↘	SOUTH EAST BLACK ARROW
2B0B	↙	SOUTH WEST BLACK ARROW
2B0C	↔	LEFT RIGHT BLACK ARROW
2B0D	⇕	UP DOWN BLACK ARROW

**Arrows with bent tips**

*Other arrows with bent tips to complete this set can be found in the Arrows block.*

2B0E	↘	RIGHTWARDS ARROW WITH TIP DOWNWARDS
2B0F	↗	RIGHTWARDS ARROW WITH TIP UPWARDS
2B10	↙	LEFTWARDS ARROW WITH TIP DOWNWARDS
2B11	↖	LEFTWARDS ARROW WITH TIP UPWARDS

**Squares**

2B12	◼	SQUARE WITH TOP HALF BLACK
	→ 25E7 ◼	square with left half black
2B13	◼	SQUARE WITH BOTTOM HALF BLACK
2B14	◼	SQUARE WITH UPPER RIGHT DIAGONAL HALF BLACK
2B15	◼	SQUARE WITH LOWER LEFT DIAGONAL HALF BLACK

**Diamonds**

2B16	◈	DIAMOND WITH LEFT HALF BLACK
2B17	◈	DIAMOND WITH RIGHT HALF BLACK
2B18	◈	DIAMOND WITH TOP HALF BLACK
2B19	◈	DIAMOND WITH BOTTOM HALF BLACK

**Squares**

2B1A	◻	DOTTED SQUARE
2B1B	◼	BLACK LARGE SQUARE
	→ 25A0 ◼	black square
2B1C	◻	WHITE LARGE SQUARE
	→ 25A1 ◻	white square
2B1D	▪	BLACK VERY SMALL SQUARE
	→ 25AA ▪	black small square
2B1E	◻	WHITE VERY SMALL SQUARE
	→ 25AB ◻	white small square

**Pentagons**

2B1F	⬠	BLACK PENTAGON
2B20	⬡	WHITE PENTAGON

**Hexagons**

2B21	⬢	WHITE HEXAGON
2B22	⬤	BLACK HEXAGON

2B23	⬤	HORIZONTAL BLACK HEXAGON
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**Circle**

2B24	●	BLACK LARGE CIRCLE
	→ 25CF ●	black circle
	→ 25EF ○	large circle

**Diamonds and lozenges**

2B25	◆	BLACK MEDIUM DIAMOND
	→ 25C6 ◆	black diamond
2B26	◇	WHITE MEDIUM DIAMOND
2B27	◈	BLACK MEDIUM LOZENGE
2B28	◇	WHITE MEDIUM LOZENGE
	→ 25CA ◇	lozenge
2B29	◆	BLACK SMALL DIAMOND
	→ 22C4 ◆	diamond operator
2B2A	◈	BLACK SMALL LOZENGE
2B2B	◈	WHITE SMALL LOZENGE

**Ellipses**

2B2C	●	BLACK HORIZONTAL ELLIPSE
2B2D	○	WHITE HORIZONTAL ELLIPSE
2B2E	●	BLACK VERTICAL ELLIPSE
2B2F	○	WHITE VERTICAL ELLIPSE

**Mathematical arrows**

*These provide the opposite direction complement for arrows for mathematical use not originally encoded in both a leftwards and rightwards direction.*

2B30	↔	LEFT ARROW WITH SMALL CIRCLE
	→ 21F4 ↔	right arrow with small circle
2B31	⇐	THREE LEFTWARDS ARROWS
	→ 21F6 ⇐	three rightwards arrows
2B32	⊕	LEFT ARROW WITH CIRCLED PLUS
	→ 27F4 ⊕	right arrow with circled plus
2B33	↔	LONG LEFTWARDS SQUIGGLE ARROW
	→ 27FF ↔	long rightwards squiggle arrow
	→ 21DC ↔	leftwards squiggle arrow
2B34	↔	LEFTWARDS TWO-HEADED ARROW WITH VERTICAL STROKE
	→ 2900 ↔	rightwards two-headed arrow with vertical stroke
2B35	↔	LEFTWARDS TWO-HEADED ARROW WITH DOUBLE VERTICAL STROKE
	→ 2901 ↔	rightwards two-headed arrow with double vertical stroke
2B36	↔	LEFTWARDS TWO-HEADED ARROW FROM BAR
	→ 2905 ↔	rightwards two-headed arrow from bar
2B37	↔	LEFTWARDS TWO-HEADED TRIPLE DASH ARROW
	→ 2910 ↔	rightwards two-headed triple dash arrow
2B38	↔	LEFTWARDS ARROW WITH DOTTED STEM
	→ 2911 ↔	rightwards arrow with dotted stem
2B39	↔	LEFTWARDS ARROW WITH TAIL WITH VERTICAL STROKE
	→ 2914 ↔	rightwards arrow with tail with vertical stroke
2B3A	↔	LEFTWARDS ARROW WITH TAIL WITH DOUBLE VERTICAL STROKE
	→ 2915 ↔	rightwards arrow with tail with double vertical stroke

## 2B3B

## Miscellaneous Symbols and Arrows

## 2B59

- 2B3B ← LEFTWARDS TWO-HEADED ARROW WITH TAIL  
→ 2916 ⇨ rightwards two-headed arrow with tail
- 2B3C ⇐ LEFTWARDS TWO-HEADED ARROW WITH TAIL WITH VERTICAL STROKE  
→ 2917 ⇨ rightwards two-headed arrow with tail with vertical stroke
- 2B3D ⇐ LEFTWARDS TWO-HEADED ARROW WITH TAIL WITH DOUBLE VERTICAL STROKE  
→ 2918 ⇨ rightwards two-headed arrow with tail with double vertical stroke
- 2B3E ⇐ LEFTWARDS ARROW THROUGH X  
→ 2947 ⇨ rightwards arrow through x
- 2B3F ↶ WAVE ARROW POINTING DIRECTLY LEFT  
→ 2933 ~ wave arrow pointing directly right  
→ 219C ↷ leftwards wave arrow
- 2B40 ⇌ EQUALS SIGN ABOVE LEFTWARDS ARROW  
→ 2971 ⇌ equals sign above rightwards arrow
- 2B41 ⇐ REVERSE TILDE OPERATOR ABOVE LEFTWARDS ARROW  
• mirror image of “⇨”  
→ 2972 ⇨ tilde operator above rightwards arrow
- 2B42 ⇐ LEFTWARDS ARROW ABOVE REVERSE ALMOST EQUAL TO  
• mirror image of “⇨”  
→ 2975 ⇨ rightwards arrow above almost equal to
- 2B43 ➤ RIGHTWARDS ARROW THROUGH GREATER-THAN  
• mirror image of “⇨”  
→ 2977 ⇨ leftwards arrow through less-than
- 2B44 ➤ RIGHTWARDS ARROW THROUGH SUPERSET  
• mirror image of “⇨”  
→ 297A ⇨ leftwards arrow through subset
- 2B45 ⇌ LEFTWARDS QUADRUPLE ARROW  
→ 27F0 ⇌ upwards quadruple arrow
- 2B46 ⇌ RIGHTWARDS QUADRUPLE ARROW
- 2B47 ⇐ REVERSE TILDE OPERATOR ABOVE RIGHTWARDS ARROW
- 2B48 ⇌ RIGHTWARDS ARROW ABOVE REVERSE ALMOST EQUAL TO
- 2B49 ⇐ TILDE OPERATOR ABOVE LEFTWARDS ARROW
- 2B4A ⇐ LEFTWARDS ARROW ABOVE ALMOST EQUAL TO
- 2B4B ⇐ LEFTWARDS ARROW ABOVE REVERSE TILDE OPERATOR  
• mirror image of “⇨”  
→ 2974 ⇨ rightwards arrow above tilde operator
- 2B4C ➤ RIGHTWARDS ARROW ABOVE REVERSE TILDE OPERATOR  
• mirror image of “⇨”  
→ 2973 ⇨ leftwards arrow above tilde operator

**Stars**

- 2B50 ★ WHITE MEDIUM STAR  
→ 22C6 ★ star operator
- 2B51 ★ BLACK SMALL STAR  
→ 066D ★ arabic five pointed star
- 2B52 ★ WHITE SMALL STAR

**Pentagons**

- 2B53 ⬠ BLACK RIGHT-POINTING PENTAGON
- 2B54 ⬡ WHITE RIGHT-POINTING PENTAGON

**Traffic sign from ARIB STD B24**

- 2B55 ○ HEAVY LARGE CIRCLE  
= basic symbol for speed limit  
→ 25EF ○ large circle

**Dictionary and map symbols from ARIB STD B24**

- 2B56 ◎ HEAVY OVAL WITH OVAL INSIDE  
= prefectural office
- 2B57 ◎ HEAVY CIRCLE WITH CIRCLE INSIDE  
= municipal office  
→ 25CE ◎ bullseye
- 2B58 ○ HEAVY CIRCLE  
= town or village office  
→ 25CB ○ white circle
- 2B59 ⊗ HEAVY CIRCLED SALTIRE  
= police station  
→ 2A02 ⊗ n-ary circled times operator

	2C0	2C1	2C2	2C3	2C4	2C5
0	𐌀 2C00	𐌁 2C10	𐌂 2C20	𐌃 2C30	𐌄 2C40	𐌅 2C50
1	𐌆 2C01	𐌇 2C11	𐌈 2C21	𐌉 2C31	𐌊 2C41	𐌋 2C51
2	𐌌 2C02	𐌍 2C12	𐌎 2C22	𐌏 2C32	𐌐 2C42	𐌑 2C52
3	𐌒 2C03	𐌓 2C13	𐌔 2C23	𐌕 2C33	𐌖 2C43	𐌗 2C53
4	𐌘 2C04	𐌙 2C14	𐌚 2C24	𐌛 2C34	𐌜 2C44	𐌝 2C54
5	𐌞 2C05	𐌟 2C15	𐌠 2C25	𐌡 2C35	𐌢 2C45	𐌣 2C55
6	𐌤 2C06	𐌥 2C16	𐌦 2C26	𐌧 2C36	𐌨 2C46	𐌩 2C56
7	𐌪 2C07	𐌫 2C17	𐌬 2C27	𐌭 2C37	𐌮 2C47	𐌯 2C57
8	𐌰 2C08	𐌱 2C18	𐌲 2C28	𐌳 2C38	𐌴 2C48	𐌵 2C58
9	𐌶 2C09	𐌷 2C19	𐌸 2C29	𐌹 2C39	𐌺 2C49	𐌻 2C59
A	𐌼 2C0A	𐌽 2C1A	𐌾 2C2A	𐌿 2C3A	𐍀 2C4A	𐍁 2C5A
B	𐍂 2C0B	𐍃 2C1B	𐍄 2C2B	𐍅 2C3B	𐍆 2C4B	𐍇 2C5B
C	𐍈 2C0C	𐍉 2C1C	𐍊 2C2C	𐍋 2C3C	𐍌 2C4C	𐍍 2C5C
D	𐍎 2C0D	𐍏 2C1D	𐍐 2C2D	𐍑 2C3D	𐍒 2C4D	𐍓 2C5D
E	𐍔 2C0E	𐍕 2C1E	𐍖 2C2E	𐍗 2C3E	𐍘 2C4E	𐍙 2C5E
F	𐍚 2C0F	𐍛 2C1F		𐍜 2C3F	𐍝 2C4F	

2C00

Glagolitic

2C5E

**Capital letters**

2C00	ⱦ	GLAGOLITIC CAPITAL LETTER AZU	2C37	ⱦ	GLAGOLITIC SMALL LETTER DZELO
2C01	Ⱨ	GLAGOLITIC CAPITAL LETTER BUKY	2C38	ⱦ	GLAGOLITIC SMALL LETTER ZEMLJA
2C02	ⱨ	GLAGOLITIC CAPITAL LETTER VEDE	2C39	ⱦ	GLAGOLITIC SMALL LETTER IZHE
2C03	Ⱪ	GLAGOLITIC CAPITAL LETTER GLAGOLI	2C3A	ⱦ	GLAGOLITIC SMALL LETTER INITIAL IZHE → A647 ⱦ Cyrillic small letter iota
2C04	ⱪ	GLAGOLITIC CAPITAL LETTER DOBRO	2C3B	ⱦ	GLAGOLITIC SMALL LETTER I
2C05	Ⱬ	GLAGOLITIC CAPITAL LETTER YESTU	2C3C	ⱦ	GLAGOLITIC SMALL LETTER DJERVI
2C06	ⱬ	GLAGOLITIC CAPITAL LETTER ZHIVETE	2C3D	ⱦ	GLAGOLITIC SMALL LETTER KAKO
2C07	Ɑ	GLAGOLITIC CAPITAL LETTER DZELO	2C3E	ⱦ	GLAGOLITIC SMALL LETTER LJUDIJE
2C08	Ɱ	GLAGOLITIC CAPITAL LETTER ZEMLJA	2C3F	ⱦ	GLAGOLITIC SMALL LETTER MYSLITE
2C09	Ɐ	GLAGOLITIC CAPITAL LETTER IZHE	2C40	ⱦ	GLAGOLITIC SMALL LETTER NASHI
2C0A	Ɒ	GLAGOLITIC CAPITAL LETTER INITIAL IZHE	2C41	ⱦ	GLAGOLITIC SMALL LETTER ONU
2C0B	ⱱ	GLAGOLITIC CAPITAL LETTER I	2C42	ⱦ	GLAGOLITIC SMALL LETTER POKOJI
2C0C	Ⱳ	GLAGOLITIC CAPITAL LETTER DJERVI	2C43	ⱦ	GLAGOLITIC SMALL LETTER RITSI
2C0D	ⱳ	GLAGOLITIC CAPITAL LETTER KAKO	2C44	ⱦ	GLAGOLITIC SMALL LETTER SLOVO
2C0E	ⱴ	GLAGOLITIC CAPITAL LETTER LJUDIJE	2C45	ⱦ	GLAGOLITIC SMALL LETTER TVRIDO
2C0F	Ⱶ	GLAGOLITIC CAPITAL LETTER MYSLITE	2C46	ⱦ	GLAGOLITIC SMALL LETTER UKU
2C10	ⱶ	GLAGOLITIC CAPITAL LETTER NASHI	2C47	ⱦ	GLAGOLITIC SMALL LETTER FRITU
2C11	ⱷ	GLAGOLITIC CAPITAL LETTER ONU	2C48	ⱦ	GLAGOLITIC SMALL LETTER HERU
2C12	ⱸ	GLAGOLITIC CAPITAL LETTER POKOJI	2C49	ⱦ	GLAGOLITIC SMALL LETTER OTU
2C13	ⱹ	GLAGOLITIC CAPITAL LETTER RITSI	2C4A	ⱦ	GLAGOLITIC SMALL LETTER PE
2C14	ⱺ	GLAGOLITIC CAPITAL LETTER SLOVO	2C4B	ⱦ	GLAGOLITIC SMALL LETTER SHTA
2C15	ⱻ	GLAGOLITIC CAPITAL LETTER TVRIDO	2C4C	ⱦ	GLAGOLITIC SMALL LETTER TSI
2C16	ⱼ	GLAGOLITIC CAPITAL LETTER UKU	2C4D	ⱦ	GLAGOLITIC SMALL LETTER CHRIVI
2C17	ⱽ	GLAGOLITIC CAPITAL LETTER FRITU	2C4E	ⱦ	GLAGOLITIC SMALL LETTER SHA
2C18	Ȿ	GLAGOLITIC CAPITAL LETTER HERU	2C4F	ⱦ	GLAGOLITIC SMALL LETTER YERU
2C19	Ɀ	GLAGOLITIC CAPITAL LETTER OTU	2C50	ⱦ	GLAGOLITIC SMALL LETTER YERI
2C1A	Ȿ	GLAGOLITIC CAPITAL LETTER PE	2C51	ⱦ	GLAGOLITIC SMALL LETTER YATI
2C1B	Ȿ	GLAGOLITIC CAPITAL LETTER SHTA	2C52	ⱦ	GLAGOLITIC SMALL LETTER SPIDERY HA
2C1C	Ȿ	GLAGOLITIC CAPITAL LETTER TSI	2C53	ⱦ	GLAGOLITIC SMALL LETTER YU
2C1D	Ȿ	GLAGOLITIC CAPITAL LETTER CHRIVI	2C54	ⱦ	GLAGOLITIC SMALL LETTER SMALL YUS
2C1E	Ȿ	GLAGOLITIC CAPITAL LETTER SHA	2C55	ⱦ	GLAGOLITIC SMALL LETTER SMALL YUS WITH TAIL
2C1F	Ȿ	GLAGOLITIC CAPITAL LETTER YERU	2C56	ⱦ	GLAGOLITIC SMALL LETTER YO
2C20	Ȿ	GLAGOLITIC CAPITAL LETTER YERI	2C57	ⱦ	GLAGOLITIC SMALL LETTER IOTATED SMALL YUS
2C21	Ȿ	GLAGOLITIC CAPITAL LETTER YATI	2C58	ⱦ	GLAGOLITIC SMALL LETTER BIG YUS
2C22	Ȿ	GLAGOLITIC CAPITAL LETTER SPIDERY HA	2C59	ⱦ	GLAGOLITIC SMALL LETTER IOTATED BIG YUS
2C23	Ȿ	GLAGOLITIC CAPITAL LETTER YU	2C5A	ⱦ	GLAGOLITIC SMALL LETTER FITA
2C24	Ȿ	GLAGOLITIC CAPITAL LETTER SMALL YUS	2C5B	ⱦ	GLAGOLITIC SMALL LETTER IZHITSA
2C25	Ȿ	GLAGOLITIC CAPITAL LETTER SMALL YUS WITH TAIL	2C5C	ⱦ	GLAGOLITIC SMALL LETTER SHTAPIC
2C26	Ȿ	GLAGOLITIC CAPITAL LETTER YO	2C5D	ⱦ	GLAGOLITIC SMALL LETTER TROKUTASTI A
2C27	Ȿ	GLAGOLITIC CAPITAL LETTER IOTATED SMALL YUS	2C5E	ⱦ	GLAGOLITIC SMALL LETTER LATINATE MYSLITE
2C28	Ȿ	GLAGOLITIC CAPITAL LETTER BIG YUS			
2C29	Ȿ	GLAGOLITIC CAPITAL LETTER IOTATED BIG YUS			
2C2A	Ȿ	GLAGOLITIC CAPITAL LETTER FITA			
2C2B	Ȿ	GLAGOLITIC CAPITAL LETTER IZHITSA			
2C2C	Ȿ	GLAGOLITIC CAPITAL LETTER SHTAPIC			
2C2D	Ȿ	GLAGOLITIC CAPITAL LETTER TROKUTASTI A			
2C2E	Ȿ	GLAGOLITIC CAPITAL LETTER LATINATE MYSLITE			

**Small letters**

2C30	ⱦ	GLAGOLITIC SMALL LETTER AZU
2C31	ⱦ	GLAGOLITIC SMALL LETTER BUKY
2C32	ⱦ	GLAGOLITIC SMALL LETTER VEDE
2C33	ⱦ	GLAGOLITIC SMALL LETTER GLAGOLI
2C34	ⱦ	GLAGOLITIC SMALL LETTER DOBRO
2C35	ⱦ	GLAGOLITIC SMALL LETTER YESTU
2C36	ⱦ	GLAGOLITIC SMALL LETTER ZHIVETE

	2C6	2C7
0	Ł 2C60	Ų 2C70
1	ł 2C61	ų 2C71
2	Ł 2C62	Ŵ 2C72
3	Œ 2C63	ŵ 2C73
4	Ŕ 2C64	ŵ 2C74
5	Ǻ 2C65	ƒ 2C75
6	ƒ 2C66	ƒ 2C76
7	Ɔ 2C67	Ɔ 2C77
8	h 2C68	e 2C78
9	K 2C69	l 2C79
A	k 2C6A	o 2C7A
B	Z 2C6B	Ǝ 2C7B
C	Z 2C6C	j 2C7C
D	Q 2C6D	V 2C7D
E	M 2C6E	Œ 2C7E
F	V 2C6F	Z 2C7F



**Orthographic Latin additions**

- 2C60 Ł LATIN CAPITAL LETTER L WITH DOUBLE BAR  
 2C61 ł LATIN SMALL LETTER L WITH DOUBLE BAR  
 2C62 Ł LATIN CAPITAL LETTER L WITH MIDDLE TILDE  
 • lowercase is 026B ɺ  
 2C63 P LATIN CAPITAL LETTER P WITH STROKE  
 • lowercase is 1D7D p  
 2C64 R LATIN CAPITAL LETTER R WITH TAIL  
 • lowercase is 027D r  
 2C65 α LATIN SMALL LETTER A WITH STROKE  
 • uppercase is 023A Å  
 2C66 t LATIN SMALL LETTER T WITH DIAGONAL STROKE  
 • uppercase is 023E T

**Additions for Uighur**

- 2C67 H LATIN CAPITAL LETTER H WITH DESCENDER  
 2C68 h LATIN SMALL LETTER H WITH DESCENDER  
 2C69 K LATIN CAPITAL LETTER K WITH DESCENDER  
 2C6A k LATIN SMALL LETTER K WITH DESCENDER  
 2C6B Z LATIN CAPITAL LETTER Z WITH DESCENDER  
 2C6C z LATIN SMALL LETTER Z WITH DESCENDER

**Miscellaneous additions**

- 2C6D Q LATIN CAPITAL LETTER ALPHA  
 • lowercase is 0251 α  
 2C6E M LATIN CAPITAL LETTER M WITH HOOK  
 • lowercase is 0271 m  
 2C6F V LATIN CAPITAL LETTER TURNED A  
 • lowercase is 0250 v  
 2C70 D LATIN CAPITAL LETTER TURNED ALPHA  
 • lowercase is 0252 d  
 2C71 v LATIN SMALL LETTER V WITH RIGHT HOOK  
 2C72 W LATIN CAPITAL LETTER W WITH HOOK  
 2C73 w LATIN SMALL LETTER W WITH HOOK  
 2C74 v LATIN SMALL LETTER V WITH CURL

**Claudian letters**

*Claudian letters in inscriptions are uppercase, but may be transcribed by scholars in lowercase.*

- 2C75 H LATIN CAPITAL LETTER HALF H  
 → 0370 Η greek capital letter heta  
 → 2132 𐌶 turned capital f  
 → 2183 ↀ roman numeral reversed one hundred  
 2C76 h LATIN SMALL LETTER HALF H  
 → 0371 η greek small letter heta

**Additions for UPA**

- 2C77 o LATIN SMALL LETTER TAILLESS PHI  
 • medium rounded o  
 2C78 e LATIN SMALL LETTER E WITH NOTCH  
 2C79 l LATIN SMALL LETTER TURNED R WITH TAIL  
 2C7A o LATIN SMALL LETTER O WITH LOW RING INSIDE  
 2C7B ɶ LATIN LETTER SMALL CAPITAL TURNED E  
 2C7C j LATIN SUBSCRIPT SMALL LETTER J  
 ≈ <sub> 006A j  
 2C7D V MODIFIER LETTER CAPITAL V  
 ≈ <sup> 0056 V

**Additions for Shona**

- 2C7E S LATIN CAPITAL LETTER S WITH SWASH TAIL  
 • lower case is 023F s  
 2C7F Z LATIN CAPITAL LETTER Z WITH SWASH TAIL  
 • lower case is 0240 z

	2C8	2C9	2CA	2CB	2CC	2CD	2CE	2CF
0	Ⲁ 2C80	Ⲑ 2C90	Ⲡ 2CA0	ⲡ 2CB0	Ⲣ 2CC0	Ⲥ 2CD0	ⲥ 2CE0	Ⲧ 2CF0
1	ⲁ 2C81	ⲑ 2C91	ⲡ 2CA1	Ⲣ 2CB1	ⲣ 2CC1	Ⲧ 2CD1	ⲧ 2CE1	Ⲩ 2CF1
2	Ⲃ 2C82	Ⲓ 2C92	ⲣ 2CA2	ⲣ 2CB2	ⲥ 2CC2	Ⲩ 2CD2	ⲩ 2CE2	
3	ⲃ 2C83	ⲓ 2C93	Ⲥ 2CA3	ⲥ 2CB3	Ⲧ 2CC3	ⲩ 2CD3	Ⲫ 2CE3	
4	Ⲅ 2C84	Ⲕ 2C94	Ⲧ 2CA4	ⲧ 2CB4	Ⲩ 2CC4	Ⲫ 2CD4	ⲫ 2CE4	
5	ⲅ 2C85	ⲕ 2C95	ⲧ 2CA5	Ⲩ 2CB5	ⲩ 2CC5	ⲫ 2CD5	Ⲭ 2CE5	
6	Ⲇ 2C86	Ⲍ 2C96	Ⲩ 2CA6	ⲩ 2CB6	Ⲫ 2CC6	Ⲭ 2CD6	ⲭ 2CE6	
7	ⲇ 2C87	ⲍ 2C97	ⲩ 2CA7	Ⲫ 2CB7	ⲫ 2CC7	ⲭ 2CD7	Ⲯ 2CE7	
8	Ⲉ 2C88	Ⲏ 2C98	Ⲫ 2CA8	ⲫ 2CB8	Ⲭ 2CC8	Ⲯ 2CD8	ⲯ 2CE8	
9	ⲉ 2C89	ⲏ 2C99	ⲫ 2CA9	Ⲭ 2CB9	ⲭ 2CC9	ⲯ 2CD9	Ⲱ 2CE9	ⲱ 2CF9
A	Ⲋ 2C8A	ⲏ 2C9A	Ⲯ 2CAA	ⲭ 2CBA	ⲱ 2CCA	ⲱ 2CDA	Ⲳ 2CEA	ⲳ 2CFA
B	ⲋ 2C8B	Ⲑ 2C9B	ⲯ 2CAB	Ⲯ 2CBB	Ⲳ 2CCB	ⲳ 2CDB	Ⲵ 2CEB	ⲵ 2CFB
C	Ⲍ 2C8C	ⲑ 2C9C	Ⲱ 2CAC	ⲱ 2CBC	Ⲳ 2CCC	Ⲵ 2CDC	ⲵ 2CEC	Ⲷ 2CFC
D	ⲍ 2C8D	Ⲓ 2C9D	ⲱ 2CAD	Ⲳ 2CBD	ⲳ 2CCD	Ⲵ 2CDD	Ⲷ 2CED	ⲷ 2CFD
E	Ⲏ 2C8E	ⲓ 2C9E	Ⲳ 2CAE	ⲳ 2CBE	Ⲵ 2CCE	Ⲷ 2CDE	ⲷ 2CEE	Ⲹ 2CFE
F	ⲏ 2C8F	Ⲕ 2C9F	ⲳ 2CAF	Ⲵ 2CBF	ⲵ 2CCF	ⲷ 2CDF	Ⲹ 2CEF	ⲹ 2CFF

*Other Coptic letters derived from Demotic are encoded in the Greek and Coptic block.*

**Bohairic Coptic letters**

2C80	Ⲁ	COPTIC CAPITAL LETTER ALFA
2C81	ⲁ	COPTIC SMALL LETTER ALFA
2C82	Ⲃ	COPTIC CAPITAL LETTER VIDA
2C83	ⲃ	COPTIC SMALL LETTER VIDA
2C84	Ⲅ	COPTIC CAPITAL LETTER GAMMA
2C85	ⲅ	COPTIC SMALL LETTER GAMMA
2C86	Ⲇ	COPTIC CAPITAL LETTER DALDA
2C87	ⲇ	COPTIC SMALL LETTER DALDA
2C88	Ⲉ	COPTIC CAPITAL LETTER EIE
2C89	ⲉ	COPTIC SMALL LETTER EIE
2C8A	Ⲋ	COPTIC CAPITAL LETTER SOU
2C8B	ⲋ	COPTIC SMALL LETTER SOU
2C8C	Ⲍ	COPTIC CAPITAL LETTER ZATA
2C8D	ⲍ	COPTIC SMALL LETTER ZATA
2C8E	Ⲏ	COPTIC CAPITAL LETTER HATE
2C8F	ⲏ	COPTIC SMALL LETTER HATE
2C90	Ⲑ	COPTIC CAPITAL LETTER THETHE
2C91	ⲑ	COPTIC SMALL LETTER THETHE
2C92	Ⲓ	COPTIC CAPITAL LETTER IAUDA
2C93	ⲓ	COPTIC SMALL LETTER IAUDA
2C94	Ⲕ	COPTIC CAPITAL LETTER KAPA
2C95	ⲕ	COPTIC SMALL LETTER KAPA
2C96	Ⲗ	COPTIC CAPITAL LETTER LAULA
2C97	ⲗ	COPTIC SMALL LETTER LAULA
2C98	Ⲙ	COPTIC CAPITAL LETTER MI
2C99	ⲙ	COPTIC SMALL LETTER MI
2C9A	Ⲏ	COPTIC CAPITAL LETTER NI
2C9B	ⲏ	COPTIC SMALL LETTER NI
2C9C	Ⲑ	COPTIC CAPITAL LETTER KSI
2C9D	ⲑ	COPTIC SMALL LETTER KSI
2C9E	Ⲓ	COPTIC CAPITAL LETTER O
2C9F	ⲓ	COPTIC SMALL LETTER O
2CA0	Ⲕ	COPTIC CAPITAL LETTER PI
2CA1	ⲕ	COPTIC SMALL LETTER PI
2CA2	Ⲗ	COPTIC CAPITAL LETTER RO
2CA3	ⲗ	COPTIC SMALL LETTER RO
2CA4	Ⲙ	COPTIC CAPITAL LETTER SIMA
2CA5	ⲙ	COPTIC SMALL LETTER SIMA
2CA6	Ⲏ	COPTIC CAPITAL LETTER TAU
2CA7	ⲏ	COPTIC SMALL LETTER TAU
2CA8	Ⲑ	COPTIC CAPITAL LETTER UA
2CA9	ⲑ	COPTIC SMALL LETTER UA
2CAA	Ⲓ	COPTIC CAPITAL LETTER FI
2CAB	ⲓ	COPTIC SMALL LETTER FI
2CAC	Ⲕ	COPTIC CAPITAL LETTER KHI
2CAD	ⲕ	COPTIC SMALL LETTER KHI
2CAE	Ⲗ	COPTIC CAPITAL LETTER PSI
2CAF	ⲗ	COPTIC SMALL LETTER PSI
2CB0	Ⲙ	COPTIC CAPITAL LETTER OOU
2CB1	ⲙ	COPTIC SMALL LETTER OOU

**Old Coptic and dialect letters**

2CB2	Ⲛ	COPTIC CAPITAL LETTER DIALECT-P ALEF
2CB3	ⲛ	COPTIC SMALL LETTER DIALECT-P ALEF
2CB4	Ⲝ	COPTIC CAPITAL LETTER OLD COPTIC AIN
2CB5	ⲝ	COPTIC SMALL LETTER OLD COPTIC AIN

2CB6	Ⲟ	COPTIC CAPITAL LETTER CRYPTOGRAMMIC EIE
2CB7	ⲟ	COPTIC SMALL LETTER CRYPTOGRAMMIC EIE
2CB8	Ⲡ	COPTIC CAPITAL LETTER DIALECT-P KAPA
2CB9	ⲡ	COPTIC SMALL LETTER DIALECT-P KAPA
2CBA	Ⲣ	COPTIC CAPITAL LETTER DIALECT-P NI
2CBB	ⲣ	COPTIC SMALL LETTER DIALECT-P NI
2CBC	Ⲥ	COPTIC CAPITAL LETTER CRYPTOGRAMMIC NI
2CBD	ⲥ	COPTIC SMALL LETTER CRYPTOGRAMMIC NI
2CBE	Ⲧ	COPTIC CAPITAL LETTER OLD COPTIC OOU
2CBF	ⲧ	COPTIC SMALL LETTER OLD COPTIC OOU
2CC0	Ⲩ	COPTIC CAPITAL LETTER SAMPI
2CC1	ⲩ	COPTIC SMALL LETTER SAMPI
2CC2	Ⲫ	COPTIC CAPITAL LETTER CROSSED SHEI
2CC3	ⲫ	COPTIC SMALL LETTER CROSSED SHEI
2CC4	Ⲭ	COPTIC CAPITAL LETTER OLD COPTIC SHEI
2CC5	ⲭ	COPTIC SMALL LETTER OLD COPTIC SHEI
2CC6	Ⲯ	COPTIC CAPITAL LETTER OLD COPTIC ESH
2CC7	ⲯ	COPTIC SMALL LETTER OLD COPTIC ESH
2CC8	Ⲱ	COPTIC CAPITAL LETTER AKHMIMIC KHEI
2CC9	ⲱ	COPTIC SMALL LETTER AKHMIMIC KHEI
2CCA	Ⲳ	COPTIC CAPITAL LETTER DIALECT-P HORI
2CCB	ⲳ	COPTIC SMALL LETTER DIALECT-P HORI
2CCC	Ⲵ	COPTIC CAPITAL LETTER OLD COPTIC HORI
2CCD	ⲵ	COPTIC SMALL LETTER OLD COPTIC HORI
2CCE	Ⲷ	COPTIC CAPITAL LETTER OLD COPTIC HA
2CCF	ⲷ	COPTIC SMALL LETTER OLD COPTIC HA
2CD0	Ⲹ	COPTIC CAPITAL LETTER L-SHAPED HA
2CD1	ⲹ	COPTIC SMALL LETTER L-SHAPED HA
2CD2	Ⲻ	COPTIC CAPITAL LETTER OLD COPTIC HEI
2CD3	ⲻ	COPTIC SMALL LETTER OLD COPTIC HEI
2CD4	Ⲽ	COPTIC CAPITAL LETTER OLD COPTIC HAT
2CD5	ⲽ	COPTIC SMALL LETTER OLD COPTIC HAT
2CD6	Ⲿ	COPTIC CAPITAL LETTER OLD COPTIC GANGIA
2CD7	ⲿ	COPTIC SMALL LETTER OLD COPTIC GANGIA
2CD8	Ⲡ	COPTIC CAPITAL LETTER OLD COPTIC DJA
2CD9	ⲡ	COPTIC SMALL LETTER OLD COPTIC DJA
2CDA	Ⲣ	COPTIC CAPITAL LETTER OLD COPTIC SHIMA
2CDB	ⲣ	COPTIC SMALL LETTER OLD COPTIC SHIMA

**Old Nubian letters**

2CDC	Ⲛ	COPTIC CAPITAL LETTER OLD NUBIAN SHIMA
2CDD	ⲛ	COPTIC SMALL LETTER OLD NUBIAN SHIMA
2CDE	Ⲝ	COPTIC CAPITAL LETTER OLD NUBIAN NGI
2CDF	ⲝ	COPTIC SMALL LETTER OLD NUBIAN NGI
2CE0	Ⲟ	COPTIC CAPITAL LETTER OLD NUBIAN NYI
2CE1	ⲟ	COPTIC SMALL LETTER OLD NUBIAN NYI
2CE2	Ⲡ	COPTIC CAPITAL LETTER OLD NUBIAN WAU
2CE3	ⲡ	COPTIC SMALL LETTER OLD NUBIAN WAU

**Symbols**

2CE4	Ⲣ	COPTIC SYMBOL KAI → 03D7 Ⲣ greek kai symbol
2CE5	ⲣ	COPTIC SYMBOL MI RO
2CE6	Ⲥ	COPTIC SYMBOL PI RO
2CE7	ⲥ	COPTIC SYMBOL STAUROS
2CE8	Ⲧ	COPTIC SYMBOL TAU RO
2CE9	ⲧ	COPTIC SYMBOL KHI RO → 2627 ⲧ chi rho
2CEA	Ⲩ	COPTIC SYMBOL SHIMA SIMA

**Cryptogrammic letters**

2CEB	𐤀	COPTIC CAPITAL LETTER CRYPTOGRAMMIC SHEI
2CEC	𐤁	COPTIC SMALL LETTER CRYPTOGRAMMIC SHEI
2CED	𐤂	COPTIC CAPITAL LETTER CRYPTOGRAMMIC GANGIA
2CEE	𐤃	COPTIC SMALL LETTER CRYPTOGRAMMIC GANGIA

**Combining marks**

2CEF	𐤄	COPTIC COMBINING NI ABOVE <ul style="list-style-type: none"> <li>• this mark is used in final position and extends above the following character (usually a space)</li> </ul>
2CF0	𐤅	COPTIC COMBINING SPIRITUS ASPER <ul style="list-style-type: none"> <li>→ 0314 ̂ combining reversed comma above</li> <li>→ 0485 ̆ combining cyrillic dasia pneumata</li> </ul>
2CF1	𐤆	COPTIC COMBINING SPIRITUS LENIS <ul style="list-style-type: none"> <li>→ 0313 ̃ combining comma above</li> <li>→ 0486 ̇ combining cyrillic psili pneumata</li> </ul>

**Old Nubian punctuation**

2CF9	𐤇	COPTIC OLD NUBIAN FULL STOP
2CFA	𐤈	COPTIC OLD NUBIAN DIRECT QUESTION MARK
2CFB	𐤉	COPTIC OLD NUBIAN INDIRECT QUESTION MARK
2CFC	𐤊	COPTIC OLD NUBIAN VERSE DIVIDER

**Numeric character**

2CFD	𐤋	COPTIC FRACTION ONE HALF
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**Punctuation**

2CFE	𐤌	COPTIC FULL STOP
2CFF	𐤍	COPTIC MORPHOLOGICAL DIVIDER

	2D0	2D1	2D2
0	Ⴊ 2D00	Ⴋ 2D10	Ⴌ 2D20
1	Ⴍ 2D01	Ⴎ 2D11	Ⴏ 2D21
2	Ⴐ 2D02	Ⴑ 2D12	Ⴒ 2D22
3	Ⴓ 2D03	Ⴔ 2D13	Ⴕ 2D23
4	Ⴖ 2D04	Ⴗ 2D14	Ⴘ 2D24
5	Ⴙ 2D05	Ⴚ 2D15	Ⴛ 2D25
6	Ⴜ 2D06	Ⴝ 2D16	
7	Ⴞ 2D07	Ⴟ 2D17	
8	Ⴀ 2D08	Ⴁ 2D18	
9	Ⴂ 2D09	Ⴃ 2D19	
A	Ⴄ 2D0A	Ⴅ 2D1A	
B	Ⴆ 2D0B	Ⴇ 2D1B	
C	Ⴈ 2D0C	Ⴉ 2D1C	
D	Ⴋ 2D0D	Ⴌ 2D1D	
E	Ⴎ 2D0E	Ⴏ 2D1E	
F	Ⴓ 2D0F	Ⴔ 2D1F	

**Small letters (Khutsuri)**

*This is the lowercase of the old ecclesiastical alphabet. See the Georgian block for uppercase Asomtavruli.*

2D00	Ⴊ	GEORGIAN SMALL LETTER AN
2D01	Ⴋ	GEORGIAN SMALL LETTER BAN
2D02	Ⴌ	GEORGIAN SMALL LETTER GAN
2D03	Ⴍ	GEORGIAN SMALL LETTER DON
2D04	Ⴎ	GEORGIAN SMALL LETTER EN
2D05	Ⴏ	GEORGIAN SMALL LETTER VIN
2D06	Ⴐ	GEORGIAN SMALL LETTER ZEN
2D07	Ⴑ	GEORGIAN SMALL LETTER TAN
2D08	Ⴒ	GEORGIAN SMALL LETTER IN
2D09	Ⴓ	GEORGIAN SMALL LETTER KAN
2D0A	Ⴔ	GEORGIAN SMALL LETTER LAS
2D0B	Ⴕ	GEORGIAN SMALL LETTER MAN
2D0C	Ⴖ	GEORGIAN SMALL LETTER NAR
2D0D	Ⴗ	GEORGIAN SMALL LETTER ON
2D0E	Ⴘ	GEORGIAN SMALL LETTER PAR
2D0F	Ⴙ	GEORGIAN SMALL LETTER ZHAR
2D10	Ⴚ	GEORGIAN SMALL LETTER RAE
2D11	Ⴛ	GEORGIAN SMALL LETTER SAN
2D12	Ⴜ	GEORGIAN SMALL LETTER TAR
2D13	Ⴝ	GEORGIAN SMALL LETTER UN
2D14	Ⴞ	GEORGIAN SMALL LETTER PHAR
2D15	Ⴟ	GEORGIAN SMALL LETTER KHAR
2D16	Ⴀ	GEORGIAN SMALL LETTER GHAN
2D17	Ⴁ	GEORGIAN SMALL LETTER QAR
2D18	Ⴂ	GEORGIAN SMALL LETTER SHIN
2D19	Ⴃ	GEORGIAN SMALL LETTER CHIN
2D1A	Ⴄ	GEORGIAN SMALL LETTER CAN
2D1B	Ⴅ	GEORGIAN SMALL LETTER JIL
2D1C	Ⴆ	GEORGIAN SMALL LETTER CIL
2D1D	Ⴇ	GEORGIAN SMALL LETTER CHAR
2D1E	Ⴈ	GEORGIAN SMALL LETTER XAN
2D1F	Ⴉ	GEORGIAN SMALL LETTER JHAN
2D20	Ⴊ	GEORGIAN SMALL LETTER HAE
2D21	Ⴋ	GEORGIAN SMALL LETTER HE
2D22	Ⴌ	GEORGIAN SMALL LETTER HIE
2D23	Ⴍ	GEORGIAN SMALL LETTER WE
2D24	Ⴎ	GEORGIAN SMALL LETTER HAR
2D25	Ⴏ	GEORGIAN SMALL LETTER HOE

	2D3	2D4	2D5	2D6	2D7
0	◦ 2D30	⊖ 2D40	≠ 2D50	Δ 2D60	↵ 2D70
1	⊖ 2D31	∅ 2D41	! 2D51	⊏ 2D61	
2	⊕ 2D32	⋮ 2D42	↻ 2D52	↷ 2D62	
3	⌘ 2D33	∕ 2D43	⊙ 2D53	⌘ 2D63	
4	⌘ 2D34	⌒ 2D44	○ 2D54	↑ 2D64	
5	⌘ 2D35	✕ 2D45	Ⓚ 2D55	✕ 2D65	
6	⌒ 2D36	⋮ 2D46	⌒ 2D56		
7	∧ 2D37	⌒ 2D47	⋮ 2D57		
8	∨ 2D38	⋯ 2D48	⋮ 2D58		
9	⌒ 2D39	⌒ 2D49	⊙ 2D59		
A	⌒ 2D3A	⌒ 2D4A	⊙ 2D5A		
B	⊙ 2D3B	⌘ 2D4B	⌒ 2D5B		
C	⌒ 2D3C	⌘ 2D4C	⌒ 2D5C		
D	⌒ 2D3D	⌒ 2D4D	⌘ 2D5D		
E	⋮ 2D3E	⌒ 2D4E	⌒ 2D5E		
F	⌒ 2D3F	⌒ 2D4F	⌒ 2D5F	⌒ 2D6F	TFN CJ 2D7F

## 2D30

## Tifinagh

## 2D7F

**Letters**

2D30	◌	TIFINAGH LETTER YA
2D31	⊖	TIFINAGH LETTER YAB
2D32	⊕	TIFINAGH LETTER YABH
2D33	×	TIFINAGH LETTER YAG
2D34	⋈	TIFINAGH LETTER YAGHH
2D35	⋈	TIFINAGH LETTER BERBER ACADEMY YAJ
2D36	†	TIFINAGH LETTER YAJ
2D37	∧	TIFINAGH LETTER YAD
2D38	∨	TIFINAGH LETTER YADH
2D39	E	TIFINAGH LETTER YADD
2D3A	⊚	TIFINAGH LETTER YADDH
2D3B	⊙	TIFINAGH LETTER YEY
2D3C	⋈	TIFINAGH LETTER YAF
2D3D	⋈	TIFINAGH LETTER YAK
2D3E	⋈	TIFINAGH LETTER TUAREG YAK
2D3F	⋈	TIFINAGH LETTER YAKHH
2D40	⊙	TIFINAGH LETTER YAH = Tuareg yab
2D41	⊙	TIFINAGH LETTER BERBER ACADEMY YAH
2D42	⋈	TIFINAGH LETTER TUAREG YAH
2D43	⋈	TIFINAGH LETTER YAHH
2D44	⋈	TIFINAGH LETTER YAA
2D45	×	TIFINAGH LETTER YAKH
2D46	::	TIFINAGH LETTER TUAREG YAKH
2D47	⋈	TIFINAGH LETTER YAQ
2D48	⋈	TIFINAGH LETTER TUAREG YAQ
2D49	⋈	TIFINAGH LETTER YI
2D4A	⋈	TIFINAGH LETTER YAZH
2D4B	⋈	TIFINAGH LETTER AHAGGAR YAZH
2D4C	⋈	TIFINAGH LETTER TUAREG YAZH
2D4D	⋈	TIFINAGH LETTER YAL
2D4E	⋈	TIFINAGH LETTER YAM
2D4F	⋈	TIFINAGH LETTER YAN
2D50	⋈	TIFINAGH LETTER TUAREG YAGN
2D51	⋈	TIFINAGH LETTER TUAREG YANG
2D52	⋈	TIFINAGH LETTER YAP
2D53	⋈	TIFINAGH LETTER YU = Tuareg yaw
2D54	⊙	TIFINAGH LETTER YAR
2D55	⊙	TIFINAGH LETTER YARR
2D56	⋈	TIFINAGH LETTER YAGH
2D57	⋈	TIFINAGH LETTER TUAREG YAGH
2D58	⋈	TIFINAGH LETTER AYER YAGH = Adrar yaj
2D59	⊙	TIFINAGH LETTER YAS
2D5A	⊙	TIFINAGH LETTER YASS
2D5B	⊙	TIFINAGH LETTER YASH
2D5C	⋈	TIFINAGH LETTER YAT
2D5D	×	TIFINAGH LETTER YATH
2D5E	⊙	TIFINAGH LETTER YACH
2D5F	E	TIFINAGH LETTER YATT
2D60	Δ	TIFINAGH LETTER YAV
2D61	⊚	TIFINAGH LETTER YAW
2D62	⋈	TIFINAGH LETTER YAY
2D63	⋈	TIFINAGH LETTER YAZ
2D64	†	TIFINAGH LETTER TAWELLEMET YAZ = harpoon yaz
2D65	⋈	TIFINAGH LETTER YAZZ

**Modifier letter**

2D6F	◌	TIFINAGH MODIFIER LETTER LABIALIZATION MARK = tamatart ≈ <sup> 2D61 ⊚
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**Punctuation**

2D70	⋈	TIFINAGH SEPARATOR MARK = Tazarast
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**Sign**

2D7F	⋈	TIFINAGH CONSONANT JOINER • suppresses inherent vowel, functions to indicate the previous character and the following character form a bi-consonant • shape shown is arbitrary and is not visibly rendered
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	2D8	2D9	2DA	2DB	2DC	2DD
0	ሐ 2D80	ሐ 2D90	ሐ 2DA0	ሐ 2DB0	ሐ 2DC0	ሐ 2DD0
1	ሐ 2D81	ሐ 2D91	ሐ 2DA1	ሐ 2DB1	ሐ 2DC1	ሐ 2DD1
2	ሐ 2D82	ሐ 2D92	ሐ 2DA2	ሐ 2DB2	ሐ 2DC2	ሐ 2DD2
3	ሐ 2D83	ሐ 2D93	ሐ 2DA3	ሐ 2DB3	ሐ 2DC3	ሐ 2DD3
4	ሐ 2D84	ሐ 2D94	ሐ 2DA4	ሐ 2DB4	ሐ 2DC4	ሐ 2DD4
5	ሐ 2D85	ሐ 2D95	ሐ 2DA5	ሐ 2DB5	ሐ 2DC5	ሐ 2DD5
6	ሐ 2D86	ሐ 2D96	ሐ 2DA6	ሐ 2DB6	ሐ 2DC6	ሐ 2DD6
7	ሐ 2D87					
8	ሐ 2D88		ሐ 2DA8	ሐ 2DB8	ሐ 2DC8	ሐ 2DD8
9	ሐ 2D89		ሐ 2DA9	ሐ 2DB9	ሐ 2DC9	ሐ 2DD9
A	ሐ 2D8A		ሐ 2DAA	ሐ 2DBA	ሐ 2DCA	ሐ 2DDA
B	ሐ 2D8B		ሐ 2DAB	ሐ 2DBB	ሐ 2DCB	ሐ 2ddb
C	ሐ 2D8C		ሐ 2DAC	ሐ 2DBC	ሐ 2DCC	ሐ 2DDC
D	ሐ 2D8D		ሐ 2DAD	ሐ 2DBD	ሐ 2DCD	ሐ 2DDD
E	ሐ 2D8E		ሐ 2DAE	ሐ 2DBE	ሐ 2DCE	ሐ 2DDE
F	ሐ 2D8F					



## 2D80

## Ethiopic Extended

## 2DDE

**Syllables for Me'en**

2D80	ላ	ETHIOPIC SYLLABLE LOA
2D81	ሞ	ETHIOPIC SYLLABLE MOA
2D82	ሮ	ETHIOPIC SYLLABLE ROA
2D83	ሶ	ETHIOPIC SYLLABLE SOA
2D84	ሻ	ETHIOPIC SYLLABLE SHOA
2D85	ቦ	ETHIOPIC SYLLABLE BOA
2D86	ቶ	ETHIOPIC SYLLABLE TOA
2D87	ቿ	ETHIOPIC SYLLABLE COA
2D88	ኖ	ETHIOPIC SYLLABLE NOA
2D89	ኖኦ	ETHIOPIC SYLLABLE NYOA
2D8A	አ	ETHIOPIC SYLLABLE GLOTTAL OA
2D8B	ዞ	ETHIOPIC SYLLABLE ZOA
2D8C	ዶ	ETHIOPIC SYLLABLE DOA
2D8D	ዶዶ	ETHIOPIC SYLLABLE DDOA
2D8E	ደ	ETHIOPIC SYLLABLE JOA
2D8F	ደኦ	ETHIOPIC SYLLABLE THOA
2D90	ቸኦ	ETHIOPIC SYLLABLE CHOA
2D91	ቶኦ	ETHIOPIC SYLLABLE PHOA
2D92	ቸ	ETHIOPIC SYLLABLE POA

**Syllables for Blin**

2D93	ገኡ	ETHIOPIC SYLLABLE GGWA
2D94	ገኢ	ETHIOPIC SYLLABLE GGWI
2D95	ገጂ	ETHIOPIC SYLLABLE GGWEE
2D96	ገኢ	ETHIOPIC SYLLABLE GGWE

**Syllables for Sebatbeit**

2DA0	ሸ	ETHIOPIC SYLLABLE SSA
2DA1	ሸኦ	ETHIOPIC SYLLABLE SSU
2DA2	ሸኢ	ETHIOPIC SYLLABLE SSI
2DA3	ሸገ	ETHIOPIC SYLLABLE SSAA
2DA4	ሸገገ	ETHIOPIC SYLLABLE SSEE
2DA5	ሸገ	ETHIOPIC SYLLABLE SSE
2DA6	ሸገ	ETHIOPIC SYLLABLE SSO
2DA7	␣	<reserved>
2DA8	ቸ	ETHIOPIC SYLLABLE CCA
2DA9	ቸኦ	ETHIOPIC SYLLABLE CCU
2DAA	ቸኢ	ETHIOPIC SYLLABLE CCI
2DAB	ቸገ	ETHIOPIC SYLLABLE CCAA
2DAC	ቸገገ	ETHIOPIC SYLLABLE CCEE
2DAD	ቸገ	ETHIOPIC SYLLABLE CCE
2DAE	ቸገ	ETHIOPIC SYLLABLE CCO
2DAF	␣	<reserved>
2DB0	ገገ	ETHIOPIC SYLLABLE ZZA
2DB1	ገገገ	ETHIOPIC SYLLABLE ZZU
2DB2	ገገገ	ETHIOPIC SYLLABLE ZZI
2DB3	ገገገ	ETHIOPIC SYLLABLE ZZAA
2DB4	ገገገ	ETHIOPIC SYLLABLE ZZEE
2DB5	ገገገ	ETHIOPIC SYLLABLE ZZE
2DB6	ገገገ	ETHIOPIC SYLLABLE ZZO
2DB7	␣	<reserved>
2DB8	ቸኦኦ	ETHIOPIC SYLLABLE CCHA
2DB9	ቸኦኢ	ETHIOPIC SYLLABLE CCHU
2DBA	ቸኦኢ	ETHIOPIC SYLLABLE CCHI
2DBB	ቸኦኦኦ	ETHIOPIC SYLLABLE CCHAA
2DBC	ቸኦኦኦ	ETHIOPIC SYLLABLE CCHEE
2DBD	ቸኦኦኦ	ETHIOPIC SYLLABLE CCHE
2DBE	ቸኦኦኦ	ETHIOPIC SYLLABLE CCHO
2DBF	␣	<reserved>

2DC0	ቸ	ETHIOPIC SYLLABLE QYA
2DC1	ቸኦ	ETHIOPIC SYLLABLE QYU
2DC2	ቸኢ	ETHIOPIC SYLLABLE QYI
2DC3	ቸገ	ETHIOPIC SYLLABLE QYAA
2DC4	ቸገገ	ETHIOPIC SYLLABLE QYEE
2DC5	ቸገ	ETHIOPIC SYLLABLE QYE
2DC6	ቸገ	ETHIOPIC SYLLABLE QYO
2DC7	␣	<reserved>
2DC8	ሸ	ETHIOPIC SYLLABLE KYA
2DC9	ሸኦ	ETHIOPIC SYLLABLE KYU
2DCA	ሸኢ	ETHIOPIC SYLLABLE KYI
2DCB	ሸገ	ETHIOPIC SYLLABLE KYAA
2DCC	ሸገገ	ETHIOPIC SYLLABLE KYEE
2DCD	ሸገ	ETHIOPIC SYLLABLE KYE
2DCE	ሸገ	ETHIOPIC SYLLABLE KYO
2DCF	␣	<reserved>
2DD0	ሸኦ	ETHIOPIC SYLLABLE XYA
2DD1	ሸኢ	ETHIOPIC SYLLABLE XYU
2DD2	ሸኢ	ETHIOPIC SYLLABLE XYI
2DD3	ሸገ	ETHIOPIC SYLLABLE XYAA
2DD4	ሸገገ	ETHIOPIC SYLLABLE XYEE
2DD5	ሸገ	ETHIOPIC SYLLABLE XYE
2DD6	ሸገ	ETHIOPIC SYLLABLE XYO
2DD7	␣	<reserved>
2DD8	ሸገ	ETHIOPIC SYLLABLE GYA
2DD9	ሸገ	ETHIOPIC SYLLABLE GYU
2DDA	ሸገ	ETHIOPIC SYLLABLE GYI
2ddb	ሸገገ	ETHIOPIC SYLLABLE GYAA
2DDC	ሸገገ	ETHIOPIC SYLLABLE GYEE
2DDD	ሸገገ	ETHIOPIC SYLLABLE GYE
2DDE	ሸገገ	ETHIOPIC SYLLABLE GYO

	2DE	2DF
0	Ъ 2DE0	в 2DF0
	В 2DE1	Ч 2DF1
1	Г 2DE2	ІІ 2DF2
	Д 2DE3	ІІІ 2DF3
2	Ж 2DE4	Ѧ 2DF4
	З 2DE5	Ѧ 2DF5
3	К 2DE6	а 2DF6
	Л 2DE7	е 2DF7
4	М 2DE8	Ѧ 2DF8
	Н 2DE9	Ѧ 2DF9
5	О 2DEA	Ѧ 2DFA
	П 2DEB	Ю 2DFB
6	Р 2DEC	Ѧ 2DFC
	С 2DED	Ѧ 2DFD
7	Т 2DEE	Ѧ 2DFE
	Х 2DEF	Ѧ 2DFF




















































## Old Church Slavonic combining letters

2DE0	Ѧ	COMBINING CYRILLIC LETTER BE
2DE1	Ѧ	COMBINING CYRILLIC LETTER VE
2DE2	Ѧ	COMBINING CYRILLIC LETTER GHE
2DE3	Ѧ	COMBINING CYRILLIC LETTER DE
2DE4	Ѧ	COMBINING CYRILLIC LETTER ZHE
2DE5	Ѧ	COMBINING CYRILLIC LETTER ZE
2DE6	Ѧ	COMBINING CYRILLIC LETTER KA
2DE7	Ѧ	COMBINING CYRILLIC LETTER EL
2DE8	Ѧ	COMBINING CYRILLIC LETTER EM
		→ 1DDF Ѧ combining latin letter small capital m
2DE9	Ѧ	COMBINING CYRILLIC LETTER EN
2DEA	Ѧ	COMBINING CYRILLIC LETTER O
		→ 0366 Ѧ combining latin small letter o
2DEB	Ѧ	COMBINING CYRILLIC LETTER PE
2DEC	Ѧ	COMBINING CYRILLIC LETTER ER
2DED	Ѧ	COMBINING CYRILLIC LETTER ES
		→ 0368 Ѧ combining latin small letter c
2DEE	Ѧ	COMBINING CYRILLIC LETTER TE
2DEF	Ѧ	COMBINING CYRILLIC LETTER HA
		→ 036F Ѧ combining latin small letter x
2DF0	Ѧ	COMBINING CYRILLIC LETTER TSE
2DF1	Ѧ	COMBINING CYRILLIC LETTER CHE
2DF2	Ѧ	COMBINING CYRILLIC LETTER SHA
2DF3	Ѧ	COMBINING CYRILLIC LETTER SHCHA
2DF4	Ѧ	COMBINING CYRILLIC LETTER FITA
2DF5	Ѧ	COMBINING CYRILLIC LETTER ES-TE
2DF6	Ѧ	COMBINING CYRILLIC LETTER A
		→ 0363 Ѧ combining latin small letter a
2DF7	Ѧ	COMBINING CYRILLIC LETTER IE
		→ 0364 Ѧ combining latin small letter e
2DF8	Ѧ	COMBINING CYRILLIC LETTER DJERV
2DF9	Ѧ	COMBINING CYRILLIC LETTER MONOGRAPH UK
2DFA	Ѧ	COMBINING CYRILLIC LETTER YAT
2DFB	Ѧ	COMBINING CYRILLIC LETTER YU
2DFC	Ѧ	COMBINING CYRILLIC LETTER IOTIFIED A
2DFD	Ѧ	COMBINING CYRILLIC LETTER LITTLE YUS
2DFE	Ѧ	COMBINING CYRILLIC LETTER BIG YUS
2DFF	Ѧ	COMBINING CYRILLIC LETTER IOTIFIED BIG YUS

2E00

## Supplemental Punctuation

2E7F

	2E0	2E1	2E2	2E3	2E4	2E5	2E6	2E7
0	 2E00	 2E10	 2E20	 2E30				
1	 2E01	 2E11	 2E21	 2E31				
2	 2E02	 2E12	 2E22	 2E32				
3	 2E03	 2E13	 2E23					
4	 2E04	 2E14	 2E24					
5	 2E05	 2E15	 2E25					
6	 2E06	 2E16	 2E26					
7	 2E07	 2E17	 2E27					
8	 2E08	 2E18	 2E28					
9	 2E09	 2E19	 2E29					
A	 2E0A	 2E1A	 2E2A					
B	 2E0B	 2E1B	 2E2B					
C	 2E0C	 2E1C	 2E2C					
D	 2E0D	 2E1D	 2E2D					
E	 2E0E	 2E1E	 2E2E					
F	 2E0F	 2E1F	 2E2F					

**New Testament editorial symbols**

- 2E00 ⌞ RIGHT ANGLE SUBSTITUTION MARKER  
→ 231C ⌞ top left corner
- 2E01 ⌠ RIGHT ANGLE DOTTED SUBSTITUTION MARKER
- 2E02 ⌡ LEFT SUBSTITUTION BRACKET
- 2E03 ⌢ RIGHT SUBSTITUTION BRACKET
- 2E04 ⌣ LEFT DOTTED SUBSTITUTION BRACKET
- 2E05 ⌤ RIGHT DOTTED SUBSTITUTION BRACKET
- 2E06 ⁂ RAISED INTERPOLATION MARKER  
→ 22A4 ⁂ down tack
- 2E07 ⁄ RAISED DOTTED INTERPOLATION MARKER
- 2E08 ⁄ DOTTED TRANSPOSITION MARKER
- 2E09 ⁄ LEFT TRANSPOSITION BRACKET
- 2E0A ⁄ RIGHT TRANSPOSITION BRACKET
- 2E0B ◻ RAISED SQUARE  
• used as an opening raised omission bracket
- 2E0C ⁄ LEFT RAISED OMISSION BRACKET  
• used as an opening or closing raised omission bracket
- 2E0D ⁄ RIGHT RAISED OMISSION BRACKET  
• used as a closing or opening raised omission bracket

**Ancient Greek textual symbols**

- 2E0E ⸰ EDITORIAL CORONIS  
→ 1FBD ⸰ greek koronis
- 2E0F — PARAGRAPHOS
- 2E10 — FORKED PARAGRAPHOS
- 2E11 — REVERSED FORKED PARAGRAPHOS
- 2E12 — HYPODIASTOLE
- 2E13 ⁄ DOTTED OBELOS  
• glyph variants may look like ‘÷’ or ‘÷’  
→ 2052 ⁄ commercial minus sign
- 2E14 ✓ DOWNWARDS ANCORA  
• contrary to its formal name this symbol points upwards
- 2E15 ↗ UPWARDS ANCORA  
• contrary to its formal name this symbol points downwards
- 2E16 ∞ DOTTED RIGHT-POINTING ANGLE  
= diplo periestigmene

**Ancient Near-Eastern linguistic symbol**

- 2E17 ≠ DOUBLE OBLIQUE HYPHEN  
• used in ancient Near-Eastern linguistics  
• hyphen in Fraktur text uses 002D - or 2010 - , but with a ‘≠’ glyph in Fraktur fonts  
→ 002D - hyphen-minus  
→ 003D = equals sign  
→ 2010 - hyphen

**General punctuation**

- 2E18 ⁄ INVERTED INTERROBANG  
= gnaborretni  
→ 203D ⁄ interrobang
- 2E19 ⁄ PALM BRANCH  
• used as a separator

**Dictionary punctuation**

*These punctuation marks are used mostly in German dictionaries, to indicate umlaut or case changes with abbreviated stems.*

- 2E1A ∙ HYPHEN WITH DIAERESIS  
• indicates umlaut of the stem vowel of a plural form
- 2E1B ∙ TILDE WITH RING ABOVE  
• indicates change in case for derived form

**Brackets**

- 2E1C ⁄ LEFT LOW PARAPHRASE BRACKET
- 2E1D ⁄ RIGHT LOW PARAPHRASE BRACKET  
• used in N°Ko

**Dictionary punctuation**

- 2E1E ∙ TILDE WITH DOT ABOVE  
• indicates derived form changes to uppercase
- 2E1F ∙ TILDE WITH DOT BELOW  
• indicates derived form changes to lowercase

**Brackets**

- 2E20 | LEFT VERTICAL BAR WITH QUILL
- 2E21 | RIGHT VERTICAL BAR WITH QUILL

**Half brackets**

*These form a set of four corner brackets and are used editorially. They are distinguished from mathematical floor and ceiling characters. Occasionally quine corners are substituted for half brackets.*

- 2E22 ⌞ TOP LEFT HALF BRACKET  
→ 2308 ⌞ left ceiling  
→ 231C ⌞ top left corner  
→ 300C ⌞ left corner bracket
- 2E23 ⌠ TOP RIGHT HALF BRACKET
- 2E24 ⌡ BOTTOM LEFT HALF BRACKET
- 2E25 ⌢ BOTTOM RIGHT HALF BRACKET

**Brackets**

- 2E26 ⊂ LEFT SIDEWAYS U BRACKET  
→ 2282 ⊂ subset of
- 2E27 ⊃ RIGHT SIDEWAYS U BRACKET  
→ 2283 ⊃ superset of
- 2E28 (( LEFT DOUBLE PARENTHESIS  
→ 2985 ( left white parenthesis  
→ FF5F (( fullwidth left white parenthesis
- 2E29 )) RIGHT DOUBLE PARENTHESIS

**Historic punctuation**

- 2E2A ∙ TWO DOTS OVER ONE DOT PUNCTUATION
- 2E2B ∙ ONE DOT OVER TWO DOTS PUNCTUATION
- 2E2C ∙ SQUARED FOUR DOT PUNCTUATION
- 2E2D ∙ FIVE DOT MARK
- 2E2E ⁄ REVERSED QUESTION MARK  
= punctus percontativus  
→ 003F ⁄ question mark  
→ 00BF ⁄ inverted question mark  
→ 061F ⁄ arabic question mark

2E2F

## Supplemental Punctuation

2E32

- 2E2F   '   **VERTICAL TILDE**
- used for Cyrillic yerik
  - 033E   '   combining vertical tilde
  - A67F   '   cyrillic payerok
- 2E30   °   **RING POINT**
- used in Avestan
  - 2218   °   ring operator
  - 25E6   °   white bullet
- 2E31   ·   **WORD SEPARATOR MIDDLE DOT**
- used in Avestan, Samaritan, ...
  - 00B7   ·   middle dot

**Length mark**

- 2E32   ͜   **LOOPEd LENGTH MARK**
- = e-B08

	2E8	2E9	2EA	2EB	2EC	2ED	2EE	2EF
0	𠂇 2E80	尢 2E90	民 2EA0	彡 2EB0	卅 2EC0	𠂇 2ED0	𠂇 2EE0	龙 2EF0
1	厂 2E81	允 2E91	彡 2EA1	𠂇 2EB1	虎 2EC1	長 2ED1	𠂇 2EE1	龜 2EF1
2	冫 2E82	巳 2E92	氷 2EA2	𠂇 2EB2	𠂇 2EC2	𠂇 2ED2	𠂇 2EE2	龜 2EF2
3	乚 2E83	么 2E93	灬 2EA3	𠂇 2EB3	𠂇 2EC3	𠂇 2ED3	𠂇 2EE3	龟 2EF3
4	乚 2E84	𠂇 2E94	𠂇 2EA4	𠂇 2EB4	𠂇 2EC4	𠂇 2ED4	𠂇 2EE4	
5	𠂇 2E85	𠂇 2E95	𠂇 2EA5	𠂇 2EB5	𠂇 2EC5	𠂇 2ED5	𠂇 2EE5	
6	𠂇 2E86	𠂇 2E96	𠂇 2EA6	𠂇 2EB6	𠂇 2EC6	𠂇 2ED6	𠂇 2EE6	
7	𠂇 2E87	𠂇 2E97	𠂇 2EA7	𠂇 2EB7	𠂇 2EC7	𠂇 2ED7	𠂇 2EE7	
8	𠂇 2E88	𠂇 2E98	𠂇 2EA8	𠂇 2EB8	𠂇 2EC8	𠂇 2ED8	𠂇 2EE8	
9	𠂇 2E89	𠂇 2E99	𠂇 2EA9	𠂇 2EB9	𠂇 2EC9	𠂇 2ED9	𠂇 2EE9	
A	𠂇 2E8A		𠂇 2EAA	𠂇 2EBA	𠂇 2ECA	𠂇 2EDA	𠂇 2EEA	
B	𠂇 2E8B	𠂇 2E9B	𠂇 2EAB	𠂇 2EBB	𠂇 2ECB	𠂇 2EDB	𠂇 2EEB	
C	𠂇 2E8C	𠂇 2E9C	𠂇 2EAC	𠂇 2EBC	𠂇 2ECC	𠂇 2EDC	𠂇 2EEC	
D	𠂇 2E8D	𠂇 2E9D	𠂇 2EAD	𠂇 2EBD	𠂇 2ECD	𠂇 2EDD	𠂇 2EED	
E	𠂇 2E8E	𠂇 2E9E	𠂇 2EAE	𠂇 2EBE	𠂇 2ECE	𠂇 2EDE	𠂇 2EEE	
F	𠂇 2E8F	𠂇 2E9F	𠂇 2EAF	𠂇 2EBF	𠂇 2ECF	𠂇 2EDF	𠂇 2EEF	

## 2E80

## CJK Radicals Supplement

## 2EAE

**CJK radicals supplement**

2E80 𠂇 CJK RADICAL REPEAT

2E81 𠂈 CJK RADICAL CLIFF

→ 5382 𠂉

2E82 𠂊 CJK RADICAL SECOND ONE

→ 4E5B 𠂋

2E83 𠂌 CJK RADICAL SECOND TWO

→ 4E5A 𠂍

2E84 𠂎 CJK RADICAL SECOND THREE

→ 4E59 乙

2E85 亻 CJK RADICAL PERSON

• form used on left side

→ 4EBB 𠂏

2E86 冂 CJK RADICAL BOX

→ 5182 冂

2E87 凵 CJK RADICAL TABLE

→ 51E0 凵

2E88 ㄟ CJK RADICAL KNIFE ONE

• form used at top

→ 5200 刀

2E89 刂 CJK RADICAL KNIFE TWO

• form used on right side

→ 5202 刂

2E8A 卜 CJK RADICAL DIVINATION

• form used at top

→ 535C 卜

2E8B 卮 CJK RADICAL SEAL

• form used at bottom

→ 353E 卮

2E8C ㇀ CJK RADICAL SMALL ONE

• form used at top

→ 5C0F 小

2E8D ㇁ CJK RADICAL SMALL TWO

• form used at top

→ 5C0F 小

2E8E 兀 CJK RADICAL LAME ONE

→ 5C22 尢

2E8F 𠂇 CJK RADICAL LAME TWO

→ 5C23 尢

2E90 尢 CJK RADICAL LAME THREE

→ 5C22 尢

2E91 𠂇 CJK RADICAL LAME FOUR

→ 5C23 尢

2E92 巳 CJK RADICAL SNAKE

→ 5DF3 巳

2E93 纟 CJK RADICAL THREAD

→ 5E7A 纟

2E94 𠂇 CJK RADICAL SNOUT ONE

→ 5F51 𠂇

2E95 𠂇 CJK RADICAL SNOUT TWO

→ 5F50 𠂇

2E96 忄 CJK RADICAL HEART ONE

• form used on left side

→ 5FC4 忄

2E97 小 CJK RADICAL HEART TWO

• form used at bottom

→ 5FC3 心

2E98 扌 CJK RADICAL HAND

• form used on left side

→ 624C 扌

2E99 攴 CJK RADICAL RAP

• form used on right side

→ 6535 攴

2E9A 𠂇 &lt;reserved&gt;

2E9B 𠂇 CJK RADICAL CHOKE

→ 65E1 𠂇

2E9C 𠂇 CJK RADICAL SUN

→ 65E5 日

2E9D 月 CJK RADICAL MOON

→ 6708 月

2E9E 步 CJK RADICAL DEATH

→ 6B7A 步

2E9F 母 CJK RADICAL MOTHER

≈ 6BCD 母

2EA0 民 CJK RADICAL CIVILIAN

→ 6C11 民

2EA1 氵 CJK RADICAL WATER ONE

• form used on left side

→ 6C35 氵

2EA2 水 CJK RADICAL WATER TWO

• form used (rarely) at bottom

→ 6C3A 水

2EA3 灬 CJK RADICAL FIRE

• form used at bottom

→ 706C 灬

2EA4 𠂇 CJK RADICAL PAW ONE

• form used at top

→ 722B 𠂇

2EA5 𠂇 CJK RADICAL PAW TWO

• form used at top

→ 722B 𠂇

2EA6 𠂇 CJK RADICAL SIMPLIFIED HALF TREE TRUNK

→ 4E2C 𠂇

2EA7 𠂇 CJK RADICAL COW

→ 725B 牛

2EA8 犛 CJK RADICAL DOG

• form used on left side

→ 72AD 犛

2EA9 王 CJK RADICAL JADE

• form used on left side

→ 738B 王

2EAA 𠂇 CJK RADICAL BOLT OF CLOTH

• form used on left side

→ 758B 𠂇

2EAB 𠂇 CJK RADICAL EYE

• form used at top

→ 2EB2 𠂇 cjk radical net two

→ 76EE 目

2EAC 示 CJK RADICAL SPIRIT ONE

→ 793A 示

2EAD 𠂇 CJK RADICAL SPIRIT TWO

→ 793B 𠂇

2EAE 𠂇 CJK RADICAL BAMBOO

→ 7AF9 竹

2EAF 𢀀 CJK RADICAL SILK  
• form used on left side  
→ 7CF9 𢀀

2EB0 𢀁 CJK RADICAL C-SIMPLIFIED SILK  
• form used on left side  
→ 7E9F 𢀁

2EB1 𢀂 CJK RADICAL NET ONE  
→ 7F53 𢀂

2EB2 𢀃 CJK RADICAL NET TWO  
→ 2EAB 𢀃 cjk radical eye  
→ 7F52 𢀃

2EB3 𢀄 CJK RADICAL NET THREE  
→ 7F51 𢀄

2EB4 𢀅 CJK RADICAL NET FOUR  
→ 7F51 𢀅

2EB5 𢀆 CJK RADICAL MESH  
→ 2626B 𢀆

2EB6 𢀇 CJK RADICAL SHEEP  
• form used on left side  
→ 7F8A 𢀇

2EB7 𢀈 CJK RADICAL RAM  
• form used at top  
→ 7F8A 𢀈

2EB8 𢀉 CJK RADICAL EWE  
→ 7F8B 𢀉

2EB9 𢀊 CJK RADICAL OLD  
→ 8002 𢀊

2EBA 𢀋 CJK RADICAL BRUSH ONE  
→ 8080 𢀋

2EBB 𢀌 CJK RADICAL BRUSH TWO  
→ 807F 𢀌

2EBC 𢀍 CJK RADICAL MEAT  
→ 8089 𢀍

2EBD 𢀎 CJK RADICAL MORTAR  
→ 81FC 𢀎

2EBE 𢀏 CJK RADICAL GRASS ONE  
→ 8279 𢀏

2EBF 𢀐 CJK RADICAL GRASS TWO  
→ 8279 𢀐

2EC0 𢀑 CJK RADICAL GRASS THREE  
→ 8279 𢀑

2EC1 𢀒 CJK RADICAL TIGER  
→ 864E 𢀒

2EC2 𢀓 CJK RADICAL CLOTHES  
• form used on left side  
→ 8864 𢀓

2EC3 𢀔 CJK RADICAL WEST ONE  
• form used at top  
→ 8980 𢀔

2EC4 𢀕 CJK RADICAL WEST TWO  
• form used on left side  
→ 897F 𢀕

2EC5 见 CJK RADICAL C-SIMPLIFIED SEE  
→ 89C1 见

2EC6 角 CJK RADICAL SIMPLIFIED HORN  
→ 89D2 角

2EC7 角 CJK RADICAL HORN  
→ 278B2 角

2EC8 讠 CJK RADICAL C-SIMPLIFIED SPEECH  
→ 8BA0 讠

2EC9 贝 CJK RADICAL C-SIMPLIFIED SHELL  
→ 8D1D 贝

2ECA 足 CJK RADICAL FOOT  
• form used on left side  
→ 8DB3 足

2ECB 车 CJK RADICAL C-SIMPLIFIED CART  
→ 8F66 车

2ECC 辵 CJK RADICAL SIMPLIFIED WALK  
→ 8FB6 辵

2ECD 辵 CJK RADICAL WALK ONE  
→ 8FB6 辵

2ECE 辵 CJK RADICAL WALK TWO  
→ 8FB6 辵

2ECF 邑 CJK RADICAL CITY  
• form used on right side  
→ 9091 邑

2ED0 钅 CJK RADICAL C-SIMPLIFIED GOLD  
→ 9485 钅

2ED1 長 CJK RADICAL LONG ONE  
→ 9577 長

2ED2 𠂔 CJK RADICAL LONG TWO  
• form used on left side  
→ 9578 𠂔

2ED3 长 CJK RADICAL C-SIMPLIFIED LONG  
→ 957F 长

2ED4 门 CJK RADICAL C-SIMPLIFIED GATE  
→ 95E8 门

2ED5 阜 CJK RADICAL MOUND ONE  
→ 961C 阜  
→ 28E0F 阜

2ED6 阝 CJK RADICAL MOUND TWO  
• form used on left side  
→ 961D 阝

2ED7 雨 CJK RADICAL RAIN  
→ 96E8 雨

2ED8 青 CJK RADICAL BLUE  
→ 9752 青

2ED9 韦 CJK RADICAL C-SIMPLIFIED TANNED LEATHER  
→ 97E6 韦

2EDA 页 CJK RADICAL C-SIMPLIFIED LEAF  
→ 9875 页

2EDB 风 CJK RADICAL C-SIMPLIFIED WIND  
→ 98CE 风

2EDC 飞 CJK RADICAL C-SIMPLIFIED FLY  
→ 98DE 飞

2EDD 食 CJK RADICAL EAT ONE  
• form used at bottom  
→ 98DF 食

2EDE 食 CJK RADICAL EAT TWO  
• form used on left side  
→ 2967F 食



## 2EDF

## CJK Radicals Supplement

## 2EF3

2EDF	食	CJK RADICAL EAT THREE • form used on left side → 98E0 食
2EE0	饣	CJK RADICAL C-SIMPLIFIED EAT • form used on left side → 9963 饣
2EE1	首	CJK RADICAL HEAD → 29810 首
2EE2	马	CJK RADICAL C-SIMPLIFIED HORSE → 9A6C 马
2EE3	骨	CJK RADICAL BONE → 9AA8 骨
2EE4	鬼	CJK RADICAL GHOST → 9B3C 鬼
2EE5	鱼	CJK RADICAL C-SIMPLIFIED FISH → 9C7C 鱼
2EE6	鸟	CJK RADICAL C-SIMPLIFIED BIRD → 9E1F 鸟
2EE7	卤	CJK RADICAL C-SIMPLIFIED SALT → 9E75 鹵
2EE8	麦	CJK RADICAL SIMPLIFIED WHEAT → 9EA6 麦
2EE9	黄	CJK RADICAL SIMPLIFIED YELLOW → 9EC4 黄
2EEA	黾	CJK RADICAL C-SIMPLIFIED FROG → 9EFE 黾
2EEB	齐	CJK RADICAL J-SIMPLIFIED EVEN → 6589 齐
2EEC	齐	CJK RADICAL C-SIMPLIFIED EVEN → 9F50 齐
2EED	齒	CJK RADICAL J-SIMPLIFIED TOOTH → 6B6F 齒
2EEE	齿	CJK RADICAL C-SIMPLIFIED TOOTH → 9F7F 齿
2EEF	竜	CJK RADICAL J-SIMPLIFIED DRAGON → 9F8D 龍
2EF0	龙	CJK RADICAL C-SIMPLIFIED DRAGON → 9F99 龙
2EF1	龜	CJK RADICAL TURTLE → 9F9C 龜
2EF2	龟	CJK RADICAL J-SIMPLIFIED TURTLE → 4E80 龟
2EF3	龟	CJK RADICAL C-SIMPLIFIED TURTLE ≈ 9F9F 龟

	2F0	2F1	2F2	2F3	2F4	2F5	2F6	2F7	2F8	2F9	2FA	2FB	2FC	2FD
0	一 2F00	凵 2F10	士 2F20	己 2F30	支 2F40	比 2F50	瓜 2F60	示 2F70	聿 2F80	衣 2F90	辰 2FA0	革 2FB0	鬲 2FC0	鼻 2FD0
1	丨 2F01	刀 2F11	夂 2F21	巾 2F31	攴 2F41	毛 2F51	瓦 2F61	肉 2F71	冫 2F81	辵 2F91	韋 2FA1	鬼 2FB1	齊 2FC1	齊 2FD1
2	丶 2F02	力 2F12	夂 2F22	干 2F32	文 2F42	氏 2F52	甘 2F62	禾 2F72	臣 2F82	見 2F92	邑 2FA2	韭 2FB2	魚 2FC2	齒 2FD2
3	丿 2F03	勹 2F13	夕 2F23	幺 2F33	斗 2F43	气 2F53	生 2F63	穴 2F73	自 2F83	角 2F93	酉 2FA3	音 2FB3	鳥 2FC3	龍 2FD3
4	乙 2F04	匕 2F14	大 2F24	广 2F34	斤 2F44	水 2F54	用 2F64	立 2F74	至 2F84	言 2F94	采 2FA4	頁 2FB4	鹵 2FC4	龜 2FD4
5	丿 2F05	匚 2F15	女 2F25	爿 2F35	方 2F45	火 2F55	田 2F65	竹 2F75	臼 2F85	谷 2F95	里 2FA5	風 2FB5	鹿 2FC5	龠 2FD5
6	二 2F06	匚 2F16	子 2F26	升 2F36	无 2F46	爪 2F56	疋 2F66	米 2F76	舌 2F86	豆 2F96	金 2FA6	飛 2FB6	麥 2FC6	
7	亠 2F07	十 2F17	宀 2F27	弋 2F37	日 2F47	父 2F57	疒 2F67	糸 2F77	舛 2F87	豕 2F97	長 2FA7	食 2FB7	麻 2FC7	
8	人 2F08	卜 2F18	寸 2F28	弓 2F38	曰 2F48	爻 2F58	夨 2F68	缶 2F78	舟 2F88	豸 2F98	門 2FA8	首 2FB8	黃 2FC8	
9	儿 2F09	卩 2F19	小 2F29	彡 2F39	月 2F49	冫 2F59	白 2F69	网 2F79	艮 2F89	貝 2F99	阜 2FA9	香 2FB9	黍 2FC9	
A	入 2F0A	厂 2F1A	尢 2F2A	彡 2F3A	木 2F4A	片 2F5A	皮 2F6A	羊 2F7A	色 2F8A	赤 2F9A	隶 2FAA	馬 2FBA	黑 2FCA	
B	八 2F0B	厶 2F1B	尸 2F2B	彳 2F3B	欠 2F4B	牙 2F5B	皿 2F6B	羽 2F7B	艸 2F8B	走 2F9B	隹 2FAB	骨 2FBB	鬻 2FCB	
C	冂 2F0C	又 2F1C	中 2F2C	心 2F3C	止 2F4C	牛 2F5C	目 2F6C	老 2F7C	虍 2F8C	足 2F9C	雨 2FAC	高 2FBC	黽 2FCC	
D	冫 2F0D	口 2F1D	山 2F2D	戈 2F3D	歹 2F4D	犬 2F5D	矛 2F6D	而 2F7D	虫 2F8D	身 2F9D	青 2FAD	髟 2FBD	鼎 2FCD	
E	彳 2F0E	口 2F1E	巛 2F2E	戶 2F3E	殳 2F4E	玄 2F5E	矢 2F6E	耒 2F7E	血 2F8E	車 2F9E	非 2FAE	鬥 2FBE	鼓 2FCE	
F	几 2F0F	土 2F1F	工 2F2F	手 2F3F	母 2F4F	玉 2F5F	石 2F6F	耳 2F7F	行 2F8F	辛 2F9F	面 2FAF	鬯 2FBF	鼠 2FCF	

## 2F00

## Kangxi Radicals

## 2F37

**Kangxi radicals**

2F00	一	KANGXI RADICAL ONE ≈ 4E00 一
2F01		KANGXI RADICAL LINE ≈ 4E28
2F02	丶	KANGXI RADICAL DOT ≈ 4E36 丶
2F03	丿	KANGXI RADICAL SLASH ≈ 4E3F 丿
2F04	乙	KANGXI RADICAL SECOND ≈ 4E59 乙
2F05	乚	KANGXI RADICAL HOOK ≈ 4E85 乚
2F06	二	KANGXI RADICAL TWO ≈ 4E8C 二
2F07	冫	KANGXI RADICAL LID ≈ 4EA0 冫
2F08	人	KANGXI RADICAL MAN ≈ 4EBA 人
2F09	儿	KANGXI RADICAL LEGS ≈ 513F 儿
2F0A	入	KANGXI RADICAL ENTER ≈ 5165 入
2F0B	八	KANGXI RADICAL EIGHT ≈ 516B 八
2F0C	冂	KANGXI RADICAL DOWN BOX ≈ 5182 冂
2F0D	宀	KANGXI RADICAL COVER ≈ 5196 宀
2F0E	冫	KANGXI RADICAL ICE ≈ 51AB 冫
2F0F	几	KANGXI RADICAL TABLE ≈ 51E0 几
2F10	凵	KANGXI RADICAL OPEN BOX ≈ 51F5 凵
2F11	刀	KANGXI RADICAL KNIFE ≈ 5200 刀
2F12	力	KANGXI RADICAL POWER ≈ 529B 力
2F13	勹	KANGXI RADICAL WRAP ≈ 52F9 勹
2F14	匕	KANGXI RADICAL SPOON ≈ 5315 匕
2F15	匚	KANGXI RADICAL RIGHT OPEN BOX ≈ 531A 匚
2F16	匚	KANGXI RADICAL HIDING ENCLOSURE ≈ 5338 匚
2F17	十	KANGXI RADICAL TEN ≈ 5341 十
2F18	卜	KANGXI RADICAL DIVINATION ≈ 535C 卜
2F19	卩	KANGXI RADICAL SEAL ≈ 5369 卩
2F1A	厂	KANGXI RADICAL CLIFF ≈ 5382 厂
2F1B	厶	KANGXI RADICAL PRIVATE ≈ 53B6 厶

2F1C	又	KANGXI RADICAL AGAIN ≈ 53C8 又
2F1D	口	KANGXI RADICAL MOUTH ≈ 53E3 口
2F1E	匚	KANGXI RADICAL ENCLOSURE ≈ 56D7 匚
2F1F	土	KANGXI RADICAL EARTH ≈ 571F 土
2F20	士	KANGXI RADICAL SCHOLAR ≈ 58EB 士
2F21	夊	KANGXI RADICAL GO ≈ 5902 夊
2F22	夊	KANGXI RADICAL GO SLOWLY ≈ 590A 夊
2F23	夕	KANGXI RADICAL EVENING ≈ 5915 夕
2F24	大	KANGXI RADICAL BIG ≈ 5927 大
2F25	女	KANGXI RADICAL WOMAN ≈ 5973 女
2F26	子	KANGXI RADICAL CHILD ≈ 5B50 子
2F27	宀	KANGXI RADICAL ROOF ≈ 5B80 宀
2F28	寸	KANGXI RADICAL INCH ≈ 5BF8 寸
2F29	小	KANGXI RADICAL SMALL ≈ 5C0F 小
2F2A	尢	KANGXI RADICAL LAME ≈ 5C22 尢
2F2B	尸	KANGXI RADICAL CORPSE ≈ 5C38 尸
2F2C	屮	KANGXI RADICAL SPROUT ≈ 5C6E 屮
2F2D	山	KANGXI RADICAL MOUNTAIN ≈ 5C71 山
2F2E	川	KANGXI RADICAL RIVER ≈ 5DDB 川
2F2F	工	KANGXI RADICAL WORK ≈ 5DE5 工
2F30	己	KANGXI RADICAL ONESELF ≈ 5DF1 己
2F31	巾	KANGXI RADICAL TURBAN ≈ 5DFE 巾
2F32	干	KANGXI RADICAL DRY ≈ 5E72 干
2F33	纟	KANGXI RADICAL SHORT THREAD ≈ 5E7A 纟
2F34	广	KANGXI RADICAL DOTTED CLIFF ≈ 5E7F 广
2F35	彳	KANGXI RADICAL LONG STRIDE ≈ 5EF4 彳
2F36	升	KANGXI RADICAL TWO HANDS ≈ 5EFE 升
2F37	弋	KANGXI RADICAL SHOOT ≈ 5F0B 弋

2F38 弓 KANGXI RADICAL BOW  
≈ 5F13 弓

2F39 𠂇 KANGXI RADICAL SNOUT  
≈ 5F50 𠂇

2F3A 彡 KANGXI RADICAL BRISTLE  
≈ 5F61 彡

2F3B 彳 KANGXI RADICAL STEP  
≈ 5F73 彳

2F3C 心 KANGXI RADICAL HEART  
≈ 5FC3 心

2F3D 戈 KANGXI RADICAL HALBERD  
≈ 6208 戈

2F3E 户 KANGXI RADICAL DOOR  
≈ 6236 户

2F3F 手 KANGXI RADICAL HAND  
≈ 6248 手

2F40 支 KANGXI RADICAL BRANCH  
≈ 652F 支

2F41 攴 KANGXI RADICAL RAP  
≈ 6534 攴

2F42 文 KANGXI RADICAL SCRIPT  
≈ 6587 文

2F43 斗 KANGXI RADICAL DIPPER  
≈ 6597 斗

2F44 斤 KANGXI RADICAL AXE  
≈ 65A4 斤

2F45 方 KANGXI RADICAL SQUARE  
≈ 65B9 方

2F46 无 KANGXI RADICAL NOT  
≈ 65E0 无

2F47 日 KANGXI RADICAL SUN  
≈ 65E5 日

2F48 曰 KANGXI RADICAL SAY  
≈ 66F0 曰

2F49 月 KANGXI RADICAL MOON  
≈ 6708 月

2F4A 木 KANGXI RADICAL TREE  
≈ 6728 木

2F4B 欠 KANGXI RADICAL LACK  
≈ 6B20 欠

2F4C 止 KANGXI RADICAL STOP  
≈ 6B62 止

2F4D 殳 KANGXI RADICAL DEATH  
≈ 6B79 殳

2F4E 殳 KANGXI RADICAL WEAPON  
≈ 6BB3 殳

2F4F 母 KANGXI RADICAL DO NOT  
≈ 6BCB 母

2F50 比 KANGXI RADICAL COMPARE  
≈ 6BD4 比

2F51 毛 KANGXI RADICAL FUR  
≈ 6BDB 毛

2F52 氏 KANGXI RADICAL CLAN  
≈ 6C0F 氏

2F53 气 KANGXI RADICAL STEAM  
≈ 6C14 气

2F54 水 KANGXI RADICAL WATER  
≈ 6C34 水

2F55 火 KANGXI RADICAL FIRE  
≈ 706B 火

2F56 爪 KANGXI RADICAL CLAW  
≈ 722A 爪

2F57 父 KANGXI RADICAL FATHER  
≈ 7236 父

2F58 爻 KANGXI RADICAL DOUBLE X  
≈ 723B 爻

2F59 𣎵 KANGXI RADICAL HALF TREE TRUNK  
≈ 723F 𣎵

2F5A 片 KANGXI RADICAL SLICE  
≈ 7247 片

2F5B 牙 KANGXI RADICAL FANG  
≈ 7259 牙

2F5C 牛 KANGXI RADICAL COW  
≈ 725B 牛

2F5D 犬 KANGXI RADICAL DOG  
≈ 72AC 犬

2F5E 玄 KANGXI RADICAL PROFOUND  
≈ 7384 玄

2F5F 玉 KANGXI RADICAL JADE  
≈ 7389 玉

2F60 瓜 KANGXI RADICAL MELON  
≈ 74DC 瓜

2F61 瓦 KANGXI RADICAL TILE  
≈ 74E6 瓦

2F62 甘 KANGXI RADICAL SWEET  
≈ 7518 甘

2F63 生 KANGXI RADICAL LIFE  
≈ 751F 生

2F64 用 KANGXI RADICAL USE  
≈ 7528 用

2F65 田 KANGXI RADICAL FIELD  
≈ 7530 田

2F66 疋 KANGXI RADICAL BOLT OF CLOTH  
≈ 758B 疋

2F67 疒 KANGXI RADICAL SICKNESS  
≈ 7592 疒

2F68 㝱 KANGXI RADICAL DOTTED TENT  
≈ 7676 㝱

2F69 白 KANGXI RADICAL WHITE  
≈ 767D 白

2F6A 皮 KANGXI RADICAL SKIN  
≈ 76AE 皮

2F6B 皿 KANGXI RADICAL DISH  
≈ 76BF 皿

2F6C 目 KANGXI RADICAL EYE  
≈ 76EE 目

2F6D 矛 KANGXI RADICAL SPEAR  
≈ 77DB 矛

2F6E 矢 KANGXI RADICAL ARROW  
≈ 77E2 矢

2F6F 石 KANGXI RADICAL STONE  
≈ 77F3 石

## 2F70

















2F70	示	KANGXI RADICAL SPIRIT ≈ 793A 示
2F71	内	KANGXI RADICAL TRACK ≈ 79B8 内
2F72	禾	KANGXI RADICAL GRAIN ≈ 79BE 禾
2F73	穴	KANGXI RADICAL CAVE ≈ 7A74 穴
2F74	立	KANGXI RADICAL STAND ≈ 7ACB 立
2F75	竹	KANGXI RADICAL BAMBOO ≈ 7AF9 竹
2F76	米	KANGXI RADICAL RICE ≈ 7C73 米
2F77	糸	KANGXI RADICAL SILK ≈ 7CF8 糸
2F78	缶	KANGXI RADICAL JAR ≈ 7F36 缶
2F79	网	KANGXI RADICAL NET ≈ 7F51 网
2F7A	羊	KANGXI RADICAL SHEEP ≈ 7F8A 羊
2F7B	羽	KANGXI RADICAL FEATHER ≈ 7FBD 羽
2F7C	老	KANGXI RADICAL OLD ≈ 8001 老
2F7D	而	KANGXI RADICAL AND ≈ 800C 而
2F7E	耒	KANGXI RADICAL PLOW ≈ 8012 耒
2F7F	耳	KANGXI RADICAL EAR ≈ 8033 耳
2F80	聿	KANGXI RADICAL BRUSH ≈ 807F 聿
2F81	肉	KANGXI RADICAL MEAT ≈ 8089 肉
2F82	臣	KANGXI RADICAL MINISTER ≈ 81E3 臣
2F83	自	KANGXI RADICAL SELF ≈ 81EA 自
2F84	至	KANGXI RADICAL ARRIVE ≈ 81F3 至
2F85	白	KANGXI RADICAL MORTAR ≈ 81FC 白
2F86	舌	KANGXI RADICAL TONGUE ≈ 820C 舌
2F87	舛	KANGXI RADICAL OPPOSE ≈ 821B 舛
2F88	舟	KANGXI RADICAL BOAT ≈ 821F 舟
2F89	艮	KANGXI RADICAL STOPPING ≈ 826E 艮
2F8A	色	KANGXI RADICAL COLOR ≈ 8272 色
2F8B	艸	KANGXI RADICAL GRASS ≈ 8278 艸

## Kangxi Radicals

## 2FA7













2F8C	虍	KANGXI RADICAL TIGER ≈ 864D 虍
2F8D	虫	KANGXI RADICAL INSECT ≈ 866B 虫
2F8E	血	KANGXI RADICAL BLOOD ≈ 8840 血
2F8F	行	KANGXI RADICAL WALK ENCLOSURE ≈ 884C 行
2F90	衣	KANGXI RADICAL CLOTHES ≈ 8863 衣
2F91	酉	KANGXI RADICAL WEST ≈ 897E 酉
2F92	見	KANGXI RADICAL SEE ≈ 898B 見
2F93	角	KANGXI RADICAL HORN ≈ 89D2 角
2F94	言	KANGXI RADICAL SPEECH ≈ 8A00 言
2F95	谷	KANGXI RADICAL VALLEY ≈ 8C37 谷
2F96	豆	KANGXI RADICAL BEAN ≈ 8C46 豆
2F97	豕	KANGXI RADICAL PIG ≈ 8C55 豕
2F98	豸	KANGXI RADICAL BADGER ≈ 8C78 豸
2F99	貝	KANGXI RADICAL SHELL ≈ 8C9D 貝
2F9A	赤	KANGXI RADICAL RED ≈ 8D64 赤
2F9B	走	KANGXI RADICAL RUN ≈ 8D70 走
2F9C	足	KANGXI RADICAL FOOT ≈ 8DB3 足
2F9D	身	KANGXI RADICAL BODY ≈ 8EAB 身
2F9E	車	KANGXI RADICAL CART ≈ 8ECA 車
2F9F	辛	KANGXI RADICAL BITTER ≈ 8F9B 辛
2FA0	辰	KANGXI RADICAL MORNING ≈ 8FB0 辰
2FA1	辵	KANGXI RADICAL WALK ≈ 8FB5 辵
2FA2	邑	KANGXI RADICAL CITY ≈ 9091 邑
2FA3	酉	KANGXI RADICAL WINE ≈ 9149 酉
2FA4	采	KANGXI RADICAL DISTINGUISH ≈ 91C6 采
2FA5	里	KANGXI RADICAL VILLAGE ≈ 91CC 里
2FA6	金	KANGXI RADICAL GOLD ≈ 91D1 金
2FA7	長	KANGXI RADICAL LONG ≈ 9577 長

































































2FA8	門	KANGXI RADICAL GATE ≈ 9580 門	2FC4	鹵	KANGXI RADICAL SALT ≈ 9E75 鹵
2FA9	阜	KANGXI RADICAL MOUND ≈ 961C 阜	2FC5	鹿	KANGXI RADICAL DEER ≈ 9E7F 鹿
2FAA	隸	KANGXI RADICAL SLAVE ≈ 96B6 隸	2FC6	麥	KANGXI RADICAL WHEAT ≈ 9EA5 麥
2FAB	隹	KANGXI RADICAL SHORT TAILED BIRD ≈ 96B9 隹	2FC7	麻	KANGXI RADICAL HEMP ≈ 9EBB 麻
2FAC	雨	KANGXI RADICAL RAIN ≈ 96E8 雨	2FC8	黃	KANGXI RADICAL YELLOW ≈ 9EC3 黃
2FAD	青	KANGXI RADICAL BLUE ≈ 9751 青	2FC9	黍	KANGXI RADICAL MILLET ≈ 9ECD 黍
2FAE	非	KANGXI RADICAL WRONG ≈ 975E 非	2FCA	黑	KANGXI RADICAL BLACK ≈ 9ED1 黑
2FAF	面	KANGXI RADICAL FACE ≈ 9762 面	2FCB	黻	KANGXI RADICAL EMBROIDERY ≈ 9EF9 黻
2FB0	革	KANGXI RADICAL LEATHER ≈ 9769 革	2FCC	黽	KANGXI RADICAL FROG ≈ 9EFD 黽
2FB1	韋	KANGXI RADICAL TANNED LEATHER ≈ 97CB 韋	2FCD	鼎	KANGXI RADICAL TRIPOD ≈ 9F0E 鼎
2FB2	韭	KANGXI RADICAL LEEK ≈ 97ED 韭	2FCE	鼓	KANGXI RADICAL DRUM ≈ 9F13 鼓
2FB3	音	KANGXI RADICAL SOUND ≈ 97F3 音	2FCF	鼠	KANGXI RADICAL RAT ≈ 9F20 鼠
2FB4	頁	KANGXI RADICAL LEAF ≈ 9801 頁	2FD0	鼻	KANGXI RADICAL NOSE ≈ 9F3B 鼻
2FB5	風	KANGXI RADICAL WIND ≈ 98A8 風	2FD1	齊	KANGXI RADICAL EVEN ≈ 9F4A 齊
2FB6	飛	KANGXI RADICAL FLY ≈ 98DB 飛	2FD2	齒	KANGXI RADICAL TOOTH ≈ 9F52 齒
2FB7	食	KANGXI RADICAL EAT ≈ 98DF 食	2FD3	龍	KANGXI RADICAL DRAGON ≈ 9F8D 龍
2FB8	首	KANGXI RADICAL HEAD ≈ 9996 首	2FD4	龜	KANGXI RADICAL TURTLE ≈ 9F9C 龜
2FB9	香	KANGXI RADICAL FRAGRANT ≈ 9999 香	2FD5	龠	KANGXI RADICAL FLUTE ≈ 9FA0 龠
2FBA	馬	KANGXI RADICAL HORSE ≈ 99AC 馬			
2FBB	骨	KANGXI RADICAL BONE ≈ 9AA8 骨			
2FBC	高	KANGXI RADICAL TALL ≈ 9AD8 高			
2FBD	髟	KANGXI RADICAL HAIR ≈ 9ADF 髟			
2FBE	鬥	KANGXI RADICAL FIGHT ≈ 9B25 鬥			
2FBF	鬯	KANGXI RADICAL SACRIFICIAL WINE ≈ 9B2F 鬯			
2FC0	鬲	KANGXI RADICAL CAULDRON ≈ 9B32 鬲			
2FC1	鬼	KANGXI RADICAL GHOST ≈ 9B3C 鬼			
2FC2	魚	KANGXI RADICAL FISH ≈ 9B5A 魚			
2FC3	鳥	KANGXI RADICAL BIRD ≈ 9CE5 鳥			

	2FF
0	 2FF0
1	 2FF1
2	 2FF2
3	 2FF3
4	 2FF4
5	 2FF5
6	 2FF6
7	 2FF7
8	 2FF8
9	 2FF9
A	 2FFA
B	 2FFB
C	
D	
E	
F	

**Ideographic description characters**







*These are visibly displayed graphic characters, not invisible composition controls.*

- 2FF0  IDEOGRAPHIC DESCRIPTION CHARACTER LEFT TO RIGHT
- 2FF1  IDEOGRAPHIC DESCRIPTION CHARACTER ABOVE TO BELOW
- 2FF2  IDEOGRAPHIC DESCRIPTION CHARACTER LEFT TO MIDDLE AND RIGHT
- 2FF3  IDEOGRAPHIC DESCRIPTION CHARACTER ABOVE TO MIDDLE AND BELOW
- 2FF4  IDEOGRAPHIC DESCRIPTION CHARACTER FULL SURROUND
- 2FF5  IDEOGRAPHIC DESCRIPTION CHARACTER SURROUND FROM ABOVE
- 2FF6  IDEOGRAPHIC DESCRIPTION CHARACTER SURROUND FROM BELOW
- 2FF7  IDEOGRAPHIC DESCRIPTION CHARACTER SURROUND FROM LEFT
- 2FF8  IDEOGRAPHIC DESCRIPTION CHARACTER SURROUND FROM UPPER LEFT
- 2FF9  IDEOGRAPHIC DESCRIPTION CHARACTER SURROUND FROM UPPER RIGHT
- 2FFA  IDEOGRAPHIC DESCRIPTION CHARACTER SURROUND FROM LOWER LEFT
- 2FFB  IDEOGRAPHIC DESCRIPTION CHARACTER OVERLAID

	300	301	302	303
0	 3000	 3010	 3020	 3030
1	 3001	 3011	 3021	 3031
2	 3002	 3012	 3022	 3032
3	 3003	 3013	 3023	 3033
4	 3004	 3014	 3024	 3034
5	 3005	 3015	 3025	 3035
6	 3006	 3016	 3026	 3036
7	 3007	 3017	 3027	 3037
8	 3008	 3018	 3028	 3038
9	 3009	 3019	 3029	 3039
A	 300A	 301A	 302A	 303A
B	 300B	 301B	 302B	 303B
C	 300C	 301C	 302C	 303C
D	 300D	 301D	 302D	 303D
E	 300E	 301E	 302E	 303E
F	 300F	 301F	 302F	 303F



**CJK symbols and punctuation**

- 3000  IDEOGRAPHIC SPACE  
 → 0020  space  
 ≈ <wide> 0020 
- 3001 、 IDEOGRAPHIC COMMA  
 → 002C , comma
- 3002 。 IDEOGRAPHIC FULL STOP  
 → 002E . full stop
- 3003 " DITTO MARK  
 → 2033 " double prime
- 3004  JAPANESE INDUSTRIAL STANDARD SYMBOL
- 3005  IDEOGRAPHIC ITERATION MARK
- 3006  IDEOGRAPHIC CLOSING MARK
- 3007 ○ IDEOGRAPHIC NUMBER ZERO  
 → 20DD ⊙ combining enclosing circle  
 → 25CB ○ white circle  
 → 25EF ○ large circle

**CJK angle brackets**

- 3008 < LEFT ANGLE BRACKET  
 → 003C < less-than sign  
 → 2039 < single left-pointing angle quotation mark  
 → 2329 < left-pointing angle bracket  
 → 27E8 < mathematical left angle bracket
- 3009 > RIGHT ANGLE BRACKET  
 → 003E > greater-than sign  
 → 203A > single right-pointing angle quotation mark  
 → 232A > right-pointing angle bracket  
 → 27E9 > mathematical right angle bracket
- 300A « LEFT DOUBLE ANGLE BRACKET  
 → 00AB « left-pointing double angle quotation mark  
 → 27EA « mathematical left double angle bracket
- 300B » RIGHT DOUBLE ANGLE BRACKET  
 → 00BB » right-pointing double angle quotation mark  
 → 27EB » mathematical right double angle bracket

**CJK corner brackets**

*The CJK corner brackets, which function as quotation marks, are not recommended for general-purpose corner brackets. See the ceiling and floor characters, instead.*

- 300C ┌ LEFT CORNER BRACKET  
 → 2308 ┌ left ceiling
- 300D ┐ RIGHT CORNER BRACKET  
 • used as quotation marks  
 → 230B ┐ right floor
- 300E └ LEFT WHITE CORNER BRACKET
- 300F ┘ RIGHT WHITE CORNER BRACKET  
 • used as quotation marks

**CJK brackets**

- 3010 【 LEFT BLACK LENTICULAR BRACKET
- 3011 】 RIGHT BLACK LENTICULAR BRACKET

**CJK symbols**

- 3012 〒 POSTAL MARK

- 3013 ■ GETA MARK  
 • substitute for ideograph not in font  
 • editorial convention to represent ideographic lacuna  
 → 25A1 □ white square

**CJK brackets**

- 3014 ( LEFT TORTOISE SHELL BRACKET
- 3015 ) RIGHT TORTOISE SHELL BRACKET
- 3016 [ LEFT WHITE LENTICULAR BRACKET
- 3017 ] RIGHT WHITE LENTICULAR BRACKET
- 3018 [ LEFT WHITE TORTOISE SHELL BRACKET  
 → 27EC [ mathematical left white tortoise shell bracket
- 3019 ] RIGHT WHITE TORTOISE SHELL BRACKET  
 → 27ED ] mathematical right white tortoise shell bracket
- 301A [ LEFT WHITE SQUARE BRACKET  
 = left abstract syntax bracket  
 → 27E6 [ mathematical left white square bracket
- 301B ] RIGHT WHITE SQUARE BRACKET  
 = right abstract syntax bracket  
 → 27E7 ] mathematical right white square bracket

**CJK symbols and punctuation**

- 301C ~ WAVE DASH  
 • This character was encoded to match JIS C 6226-1978 1-33 "wave dash". The JIS standards and some industry practice disagree in mapping.  
 → 3030 ~ wavy dash  
 → FF5E ~ fullwidth tilde
- 301D “ REVERSED DOUBLE PRIME QUOTATION MARK  
 • sometimes depicted as double prime quotation mark  
 → 201C “ left double quotation mark  
 → 2036 ” reversed double prime
- 301E ” DOUBLE PRIME QUOTATION MARK  
 • this is a mistaken analogue to 201D ”; 301F ” is preferred  
 → 201D ” right double quotation mark  
 → 2033 ” double prime
- 301F „ LOW DOUBLE PRIME QUOTATION MARK  
 • may be depicted as low inverse double prime quotation mark
- 3020 ㊦ POSTAL MARK FACE

**Suzhou numerals**

*The Suzhou numerals (Chinese su1zhou1ma3zi) are special numeric forms used by traders to display the prices of goods. The use of "HANGZHOU" in the names is a misnomer.*

- 3021 一 HANGZHOU NUMERAL ONE
- 3022 二 HANGZHOU NUMERAL TWO
- 3023 三 HANGZHOU NUMERAL THREE
- 3024 四 HANGZHOU NUMERAL FOUR
- 3025 五 HANGZHOU NUMERAL FIVE
- 3026 六 HANGZHOU NUMERAL SIX
- 3027 七 HANGZHOU NUMERAL SEVEN
- 3028 八 HANGZHOU NUMERAL EIGHT
- 3029 九 HANGZHOU NUMERAL NINE

**Diacritics**

- 302A ㄛ 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  
     = single dot Bangjeom  
 302F ◌◌ HANGUL DOUBLE DOT TONE MARK  
     = double dot Bangjeom

**Other CJK symbols**

- 3030 ~ WAVY DASH  
     → 2307 〰 wavy line  
     → 301C 〰 wave dash  
 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  
     ≈ 3012 〒 postal mark  
 3037 XX IDEOGRAPHIC TELEGRAPH LINE FEED SEPARATOR SYMBOL

**Additional Suzhou numerals**

- 3038 十 HANGZHOU NUMERAL TEN  
     ≈ 5341 十  
 3039 廿 HANGZHOU NUMERAL TWENTY  
     ≈ 5344 廿  
 303A 卅 HANGZHOU NUMERAL THIRTY  
     ≈ 5345 卅

**Other CJK punctuation**

- 303B 々 VERTICAL IDEOGRAPHIC ITERATION MARK  
 303C ☒ MASU MARK  
     • informal abbreviation for Japanese -masu ending  
     → 29C4 ☒ squared rising diagonal slash  
 303D 〰 PART ALTERNATION MARK  
     • marks the start of a song part in Japanese

**Special CJK indicators**

*These are visibly displayed graphic characters, not invisible format control characters.*

- 303E ☒ IDEOGRAPHIC VARIATION INDICATOR  
     • visual indicator that the following ideograph is to be taken as a variant of the intended character  
 303F ☒ IDEOGRAPHIC HALF FILL SPACE  
     • visual indicator of a screen space for half of an ideograph

	304	305	306	307	308	309
0		ぐ 3050	だ 3060	ば 3070	む 3080	み 3090
1	あ 3041	け 3051	ち 3061	ぱ 3071	め 3081	ゑ 3091
2	あ 3042	げ 3052	ぢ 3062	ひ 3072	も 3082	を 3092
3	い 3043	こ 3053	っ 3063	び 3073	ゃ 3083	ん 3093
4	い 3044	ご 3054	っ 3064	び 3074	ゃ 3084	う 3094
5	う 3045	さ 3055	づ 3065	ふ 3075	ゆ 3085	か 3095
6	う 3046	ざ 3056	て 3066	ぶ 3076	ゆ 3086	け 3096
7	え 3047	し 3057	で 3067	ふ 3077	よ 3087	
8	え 3048	じ 3058	と 3068	へ 3078	よ 3088	
9	お 3049	す 3059	ど 3069	べ 3079	ら 3089	ゝ 3099
A	お 304A	ず 305A	な 306A	ぺ 307A	り 308A	ゝ 309A
B	か 304B	せ 305B	に 306B	ほ 307B	る 308B	ゝ 309B
C	が 304C	ぜ 305C	ぬ 306C	ぼ 307C	れ 308C	ゝ 309C
D	き 304D	そ 305D	ね 306D	ぽ 307D	ろ 308D	ゝ 309D
E	ぎ 304E	ぞ 305E	の 306E	ま 307E	わ 308E	ゝ 309E
F	く 304F	た 305F	は 306F	み 307F	わ 308F	ゝ 309F

**Hiragana letters**

3041	あ	HIRAGANA LETTER SMALL A
3042	ア	HIRAGANA LETTER A
3043	い	HIRAGANA LETTER SMALL I
3044	イ	HIRAGANA LETTER I
3045	う	HIRAGANA LETTER SMALL U
3046	ウ	HIRAGANA LETTER U
3047	え	HIRAGANA LETTER SMALL E
3048	エ	HIRAGANA LETTER E
3049	お	HIRAGANA LETTER SMALL O
304A	オ	HIRAGANA LETTER O
304B	か	HIRAGANA LETTER KA
304C	カ	HIRAGANA LETTER KA ≡ 304B か 3099 〇
304D	き	HIRAGANA LETTER KI
304E	キ	HIRAGANA LETTER KI ≡ 304D き 3099 〇
304F	く	HIRAGANA LETTER KU
3050	ク	HIRAGANA LETTER KU ≡ 304F く 3099 〇
3051	け	HIRAGANA LETTER KE
3052	ゲ	HIRAGANA LETTER GE ≡ 3051 け 3099 〇
3053	こ	HIRAGANA LETTER KO
3054	コ	HIRAGANA LETTER KO ≡ 3053 こ 3099 〇
3055	さ	HIRAGANA LETTER SA
3056	サ	HIRAGANA LETTER SA ≡ 3055 さ 3099 〇
3057	し	HIRAGANA LETTER SI = SHI
3058	ジ	HIRAGANA LETTER ZI = JI (not unique) ≡ 3057 し 3099 〇
3059	す	HIRAGANA LETTER SU
305A	ズ	HIRAGANA LETTER ZU ≡ 3059 す 3099 〇
305B	せ	HIRAGANA LETTER SE
305C	ゼ	HIRAGANA LETTER ZE ≡ 305B せ 3099 〇
305D	そ	HIRAGANA LETTER SO
305E	ゾ	HIRAGANA LETTER ZO ≡ 305D そ 3099 〇
305F	た	HIRAGANA LETTER TA
3060	ダ	HIRAGANA LETTER DA ≡ 305F た 3099 〇
3061	ち	HIRAGANA LETTER TI = CHI
3062	ヂ	HIRAGANA LETTER DI = JI (not unique) ≡ 3061 ち 3099 〇
3063	っ	HIRAGANA LETTER SMALL TU = SMALL TSU
3064	ツ	HIRAGANA LETTER TU = TSU
3065	づ	HIRAGANA LETTER DU = ZU (not unique) ≡ 3064 ツ 3099 〇
3066	て	HIRAGANA LETTER TE

3067	で	HIRAGANA LETTER DE ≡ 3066 て 3099 〇
3068	と	HIRAGANA LETTER TO
3069	ど	HIRAGANA LETTER DO ≡ 3068 と 3099 〇
306A	な	HIRAGANA LETTER NA
306B	に	HIRAGANA LETTER NI
306C	ぬ	HIRAGANA LETTER NU
306D	ね	HIRAGANA LETTER NE
306E	の	HIRAGANA LETTER NO
306F	は	HIRAGANA LETTER HA
3070	ば	HIRAGANA LETTER BA ≡ 306F は 3099 〇
3071	ぱ	HIRAGANA LETTER PA ≡ 306F は 309A 〇
3072	ひ	HIRAGANA LETTER HI
3073	び	HIRAGANA LETTER BI ≡ 3072 ひ 3099 〇
3074	ぴ	HIRAGANA LETTER PI ≡ 3072 ひ 309A 〇
3075	ふ	HIRAGANA LETTER HU = FU
3076	ぶ	HIRAGANA LETTER BU ≡ 3075 ふ 3099 〇
3077	ぷ	HIRAGANA LETTER PU ≡ 3075 ふ 309A 〇
3078	へ	HIRAGANA LETTER HE
3079	べ	HIRAGANA LETTER BE ≡ 3078 へ 3099 〇
307A	ぺ	HIRAGANA LETTER PE ≡ 3078 へ 309A 〇
307B	ほ	HIRAGANA LETTER HO
307C	ぼ	HIRAGANA LETTER BO ≡ 307B ほ 3099 〇
307D	ぽ	HIRAGANA LETTER PO ≡ 307B ほ 309A 〇
307E	ま	HIRAGANA LETTER MA
307F	み	HIRAGANA LETTER MI
3080	む	HIRAGANA LETTER MU
3081	め	HIRAGANA LETTER ME
3082	も	HIRAGANA LETTER MO
3083	や	HIRAGANA LETTER SMALL YA
3084	ヤ	HIRAGANA LETTER YA
3085	ゆ	HIRAGANA LETTER SMALL YU
3086	ユ	HIRAGANA LETTER YU
3087	よ	HIRAGANA LETTER SMALL YO
3088	ヨ	HIRAGANA LETTER YO
3089	ら	HIRAGANA LETTER RA
308A	り	HIRAGANA LETTER RI
308B	る	HIRAGANA LETTER RU
308C	れ	HIRAGANA LETTER RE
308D	ろ	HIRAGANA LETTER RO
308E	わ	HIRAGANA LETTER SMALL WA
308F	ワ	HIRAGANA LETTER WA
3090	ゐ	HIRAGANA LETTER WI
3091	ゑ	HIRAGANA LETTER WE
3092	を	HIRAGANA LETTER WO
3093	ん	HIRAGANA LETTER N

3094

Hiragana

309F

3094 う゚ HIRAGANA LETTER VU  
 ≡ 3046 う 3099 〰

**Small letters**

3095 か HIRAGANA LETTER SMALL KA

3096 け HIRAGANA LETTER SMALL KE

**Voicing marks**

3099 〰 COMBINING KATAKANA-HIRAGANA VOICED  
 SOUND MARK

309A 〰 COMBINING KATAKANA-HIRAGANA SEMI-  
 VOICED SOUND MARK

309B 〰 KATAKANA-HIRAGANA VOICED SOUND MARK  
 ≈ 0020 [SP] 3099 〰

309C 〰 KATAKANA-HIRAGANA SEMI-VOICED SOUND  
 MARK  
 ≈ 0020 [SP] 309A 〰

**Iteration marks**

309D ㄣ HIRAGANA ITERATION MARK

309E ㄣ HIRAGANA VOICED ITERATION MARK  
 ≡ 309D ㄣ 3099 〰

**Vertical form digraph**

309F ㄣ HIRAGANA DIGRAPH YORI  
 ≈ <vertical> 3088 ㄣ 308A ㄣ

	30A	30B	30C	30D	30E	30F
0	＝ 30A0	グ 30B0	ダ 30C0	バ 30D0	ム 30E0	ヰ 30F0
1	ア 30A1	ケ 30B1	チ 30C1	パ 30D1	メ 30E1	エ 30F1
2	ア 30A2	ゲ 30B2	ヂ 30C2	ヒ 30D2	モ 30E2	ヲ 30F2
3	イ 30A3	コ 30B3	ツ 30C3	ビ 30D3	ャ 30E3	ン 30F3
4	イ 30A4	ゴ 30B4	ツ 30C4	ピ 30D4	ヤ 30E4	ヴ 30F4
5	ウ 30A5	サ 30B5	ヅ 30C5	フ 30D5	ユ 30E5	カ 30F5
6	ウ 30A6	ザ 30B6	テ 30C6	ブ 30D6	ユ 30E6	ケ 30F6
7	エ 30A7	シ 30B7	デ 30C7	プ 30D7	ョ 30E7	ヴ 30F7
8	エ 30A8	ジ 30B8	ト 30C8	ヘ 30D8	ヨ 30E8	ヰ 30F8
9	オ 30A9	ス 30B9	ド 30C9	ベ 30D9	ラ 30E9	ヱ 30F9
A	オ 30AA	ズ 30BA	ナ 30CA	ペ 30DA	リ 30EA	ヱ 30FA
B	カ 30AB	セ 30BB	ニ 30CB	ホ 30DB	ル 30EB	・ 30FB
C	ガ 30AC	ゼ 30BC	ヌ 30CC	ボ 30DC	レ 30EC	ー 30FC
D	キ 30AD	ソ 30BD	ネ 30CD	ポ 30DD	ロ 30ED	ヽ 30FD
E	ギ 30AE	ゾ 30BE	ノ 30CE	マ 30DE	ワ 30EE	ヰ 30FE
F	ク 30AF	タ 30BF	ハ 30CF	ミ 30DF	ワ 30EF	㇏ 30FF

## 30A0

## Katakana

## 30F0

**Katakana punctuation**

30A0 = KATAKANA-HIRAGANA DOUBLE HYPHEN  
 → 003D = equals sign

**Katakana letters**

30A1 ア KATAKANA LETTER SMALL A  
 30A2 ア KATAKANA LETTER A  
 30A3 イ KATAKANA LETTER SMALL I  
 30A4 イ KATAKANA LETTER I  
 30A5 ウ KATAKANA LETTER SMALL U  
 30A6 ウ KATAKANA LETTER U  
 30A7 エ KATAKANA LETTER SMALL E  
 30A8 エ KATAKANA LETTER E  
 30A9 オ KATAKANA LETTER SMALL O  
 30AA オ KATAKANA LETTER O  
 30AB カ KATAKANA LETTER KA  
 30AC ガ KATAKANA LETTER GA  
       ≡ 30AB カ 3099 〇  
 30AD キ KATAKANA LETTER KI  
 30AE ギ KATAKANA LETTER GI  
       ≡ 30AD キ 3099 〇  
 30AF ク KATAKANA LETTER KU  
 30B0 グ KATAKANA LETTER GU  
       ≡ 30AF ク 3099 〇  
 30B1 ケ KATAKANA LETTER KE  
 30B2 ゲ KATAKANA LETTER GE  
       ≡ 30B1 ケ 3099 〇  
 30B3 コ KATAKANA LETTER KO  
 30B4 ゴ KATAKANA LETTER GO  
       ≡ 30B3 コ 3099 〇  
 30B5 サ KATAKANA LETTER SA  
 30B6 ザ KATAKANA LETTER ZA  
       ≡ 30B5 サ 3099 〇  
 30B7 シ KATAKANA LETTER SI  
       = SHI  
 30B8 ジ KATAKANA LETTER ZI  
       = JI (not unique)  
       ≡ 30B7 シ 3099 〇  
 30B9 ス KATAKANA LETTER SU  
 30BA ズ KATAKANA LETTER ZU  
       ≡ 30B9 ス 3099 〇  
 30BB セ KATAKANA LETTER SE  
 30BC ゼ KATAKANA LETTER ZE  
       ≡ 30BB セ 3099 〇  
 30BD ソ KATAKANA LETTER SO  
 30BE ゾ KATAKANA LETTER ZO  
       ≡ 30BD ソ 3099 〇  
 30BF タ KATAKANA LETTER TA  
 30C0 ダ KATAKANA LETTER DA  
       ≡ 30BF タ 3099 〇  
 30C1 チ KATAKANA LETTER TI  
       = CHI  
 30C2 ヂ KATAKANA LETTER DI  
       = JI (not unique)  
       ≡ 30C1 チ 3099 〇  
 30C3 ツ KATAKANA LETTER SMALL TU  
       = SMALL TSU  
 30C4 ヅ KATAKANA LETTER TU  
       = TSU

30C5 ヅ KATAKANA LETTER DU  
       = ZU (not unique)  
       ≡ 30C4 ツ 3099 〇  
 30C6 テ KATAKANA LETTER TE  
 30C7 デ KATAKANA LETTER DE  
       ≡ 30C6 テ 3099 〇  
 30C8 ト KATAKANA LETTER TO  
 30C9 ド KATAKANA LETTER DO  
       ≡ 30C8 ト 3099 〇  
 30CA ナ KATAKANA LETTER NA  
 30CB ニ KATAKANA LETTER NI  
 30CC ヌ KATAKANA LETTER NU  
 30CD ネ KATAKANA LETTER NE  
 30CE ノ KATAKANA LETTER NO  
 30CF ハ KATAKANA LETTER HA  
 30D0 バ KATAKANA LETTER BA  
       ≡ 30CF ハ 3099 〇  
 30D1 パ KATAKANA LETTER PA  
       ≡ 30CF ハ 309A 〇  
 30D2 ヒ KATAKANA LETTER HI  
 30D3 ビ KATAKANA LETTER BI  
       ≡ 30D2 ヒ 3099 〇  
 30D4 ピ KATAKANA LETTER PI  
       ≡ 30D2 ヒ 309A 〇  
 30D5 フ KATAKANA LETTER HU  
       = FU  
 30D6 ブ KATAKANA LETTER BU  
       ≡ 30D5 フ 3099 〇  
 30D7 プ KATAKANA LETTER PU  
       ≡ 30D5 フ 309A 〇  
 30D8 ヘ KATAKANA LETTER HE  
 30D9 ベ KATAKANA LETTER BE  
       ≡ 30D8 ヘ 3099 〇  
 30DA ペ KATAKANA LETTER PE  
       ≡ 30D8 ヘ 309A 〇  
 30DB ホ KATAKANA LETTER HO  
 30DC ボ KATAKANA LETTER BO  
       ≡ 30DB ホ 3099 〇  
 30DD ポ KATAKANA LETTER PO  
       ≡ 30DB ホ 309A 〇  
 30DE マ KATAKANA LETTER MA  
 30DF ミ KATAKANA LETTER MI  
 30E0 ム KATAKANA LETTER MU  
 30E1 メ KATAKANA LETTER ME  
 30E2 モ KATAKANA LETTER MO  
 30E3 ヤ KATAKANA LETTER SMALL YA  
 30E4 ヤ KATAKANA LETTER YA  
 30E5 ユ KATAKANA LETTER SMALL YU  
 30E6 ユ KATAKANA LETTER YU  
 30E7 ヨ KATAKANA LETTER SMALL YO  
 30E8 ヨ KATAKANA LETTER YO  
 30E9 ラ KATAKANA LETTER RA  
 30EA リ KATAKANA LETTER RI  
 30EB ル KATAKANA LETTER RU  
 30EC レ KATAKANA LETTER RE  
 30ED ロ KATAKANA LETTER RO  
 30EE ワ KATAKANA LETTER SMALL WA  
 30EF ワ KATAKANA LETTER WA  
 30F0 卅 KATAKANA LETTER WI

30F1	エ	KATAKANA LETTER WE
30F2	ヲ	KATAKANA LETTER WO
30F3	ン	KATAKANA LETTER N
30F4	ヴ	KATAKANA LETTER VU
	≡ 30A6 ウ 3099 ォ	
30F5	カ	KATAKANA LETTER SMALL KA
30F6	ケ	KATAKANA LETTER SMALL KE
30F7	ヴァ	KATAKANA LETTER VA
	≡ 30EF ヲ 3099 ォ	
30F8	ヰ	KATAKANA LETTER VI
	≡ 30F0 ヰ 3099 ォ	
30F9	ヱ	KATAKANA LETTER VE
	≡ 30F1 エ 3099 ォ	
30FA	ヰ	KATAKANA LETTER VO
	≡ 30F2 ヲ 3099 ォ	

**Conjunction and length marks**

30FB	・	KATAKANA MIDDLE DOT
	→ 00B7	middle dot
30FC	ー	KATAKANA-HIRAGANA PROLONGED SOUND MARK
	→ 2014	em dash

**Iteration marks**




30FD	ヽ	KATAKANA ITERATION MARK
30FE	ヾ	KATAKANA VOICED ITERATION MARK
	≡ 30FD ヽ 3099 ォ	

**Vertical form digraph**

30FF	ㇿ	KATAKANA DIGRAPH KOTO
	≈ <vertical> 30B3 ヌ 30C8 ト	



See also the Bopomofo Extended block

	310	311	312
0		ㄣ 3110	ㄞ 3120
1		ㄘ 3111	ㄟ 3121
2		ㄊ 3112	ㄠ 3122
3		ㄓ 3113	ㄡ 3123
4		ㄒ 3114	ㄣ 3124
5	ㄣ 3105	ㄥ 3115	ㄤ 3125
6	ㄨ 3106	ㄩ 3116	ㄨ 3126
7	ㄩ 3107	ㄩ 3117	ㄩ 3127
8	ㄩ 3108	ㄩ 3118	ㄩ 3128
9	ㄩ 3109	ㄩ 3119	ㄩ 3129
A	ㄩ 310A	ㄩ 311A	ㄩ 312A
B	ㄩ 310B	ㄩ 311B	ㄩ 312B
C	ㄩ 310C	ㄩ 311C	ㄩ 312C
D	ㄩ 310D	ㄩ 311D	ㄩ 312D
E	ㄩ 310E	ㄩ 311E	
F	ㄩ 310F	ㄩ 311F	

**Based on GB 2312**



3105	ㄣ	BOPOMOFO LETTER B
3106	ㄨ	BOPOMOFO LETTER P
3107	ㄩ	BOPOMOFO LETTER M
3108	ㄣ	BOPOMOFO LETTER F
3109	ㄨ	BOPOMOFO LETTER D
310A	ㄣ	BOPOMOFO LETTER T
310B	ㄨ	BOPOMOFO LETTER N
310C	ㄨ	BOPOMOFO LETTER L
310D	ㄣ	BOPOMOFO LETTER G
310E	ㄣ	BOPOMOFO LETTER K
310F	ㄣ	BOPOMOFO LETTER H
3110	ㄣ	BOPOMOFO LETTER J
3111	ㄣ	BOPOMOFO LETTER Q
3112	ㄣ	BOPOMOFO LETTER X
3113	ㄣ	BOPOMOFO LETTER ZH
3114	ㄣ	BOPOMOFO LETTER CH
3115	ㄣ	BOPOMOFO LETTER SH
3116	ㄣ	BOPOMOFO LETTER R
3117	ㄣ	BOPOMOFO LETTER Z
3118	ㄣ	BOPOMOFO LETTER C
3119	ㄣ	BOPOMOFO LETTER S
311A	ㄣ	BOPOMOFO LETTER A
311B	ㄣ	BOPOMOFO LETTER O
311C	ㄣ	BOPOMOFO LETTER E
311D	ㄣ	BOPOMOFO LETTER EH
311E	ㄣ	BOPOMOFO LETTER AI
311F	ㄣ	BOPOMOFO LETTER EI
3120	ㄣ	BOPOMOFO LETTER AU
3121	ㄣ	BOPOMOFO LETTER OU
3122	ㄣ	BOPOMOFO LETTER AN
3123	ㄣ	BOPOMOFO LETTER EN
3124	ㄣ	BOPOMOFO LETTER ANG
3125	ㄣ	BOPOMOFO LETTER ENG
3126	ㄣ	BOPOMOFO LETTER ER
3127	ㄣ	BOPOMOFO LETTER I
		• the horizontal stroke form is considered a rendering variant
3128	ㄣ	BOPOMOFO LETTER U
3129	ㄣ	BOPOMOFO LETTER IU

**Dialect (non-Mandarin) letters**

312A	ㄣ	BOPOMOFO LETTER V
312B	ㄣ	BOPOMOFO LETTER NG
312C	ㄣ	BOPOMOFO LETTER GN

**Miscellaneous addition**

312D	ㄣ	BOPOMOFO LETTER IH
		• for analytic representation of apical vowel

	313	314	315	316	317	318
0		ㄹᄆ 3140	ㅍ 3150	ㅍ 3160	ㅍᄆ 3170	ㅇᄆ 3180
1	ㄱ 3131	ㅁ 3141	ㅑ 3151	ㅡ 3161	몽 3171	ㅇ 3181
2	ㅓ 3132	ㅕ 3142	ㅖ 3152	ㅗ 3162	ㅗᄆ 3172	ㅇᄆ 3182
3	ㅓᄆ 3133	ㅕᄆ 3143	ㅖᄆ 3153	ㅗᄆ 3163	ㅗᄆᄆ 3173	ㅇᄆᄆ 3183
4	ㄴ 3134	ㅕᄆ 3144	ㅖᄆ 3154	 3164	ㅗᄆᄆ 3174	ㅗᄆᄆ 3184
5	ㅓᄆ 3135	ㅕᄆ 3145	ㅖᄆ 3155	ㅗᄆᄆ 3165	ㅗᄆᄆᄆ 3175	ㅇᄆᄆᄆ 3185
6	ㄴᄆ 3136	ㅕᄆᄆ 3146	ㅖᄆᄆ 3156	ㅗᄆᄆᄆ 3166	ㅗᄆᄆᄆᄆ 3176	ㅇᄆᄆᄆᄆ 3186
7	ㄴᄆᄆ 3137	ㅇᄆᄆ 3147	ㅗᄆᄆᄆ 3157	ㅓᄆᄆᄆ 3167	ㅗᄆᄆᄆᄆ 3177	ㅗᄆᄆᄆᄆᄆ 3187
8	ㅗᄆᄆᄆ 3138	ㅗᄆᄆᄆ 3148	ㅗᄆᄆᄆ 3158	ㅗᄆᄆᄆ 3168	ㅗᄆᄆᄆ 3178	ㅗᄆᄆᄆ 3188
9	ㄴᄆᄆᄆ 3139	ㅗᄆᄆᄆ 3149	ㅗᄆᄆᄆ 3159	ㅗᄆᄆᄆ 3169	ㅗᄆᄆᄆ 3179	ㅗᄆᄆᄆ 3189
A	ㄴᄆᄆᄆ 313A	ㅗᄆᄆᄆ 314A	ㅗᄆᄆᄆ 315A	ㅗᄆᄆᄆ 316A	ㅗᄆᄆᄆ 317A	ㅗᄆᄆᄆ 318A
B	ㅗᄆᄆᄆ 313B	ㅗᄆᄆᄆ 314B	ㅗᄆᄆᄆ 315B	ㅗᄆᄆᄆ 316B	ㅗᄆᄆᄆ 317B	ㅗᄆᄆᄆ 318B
C	ㅗᄆᄆᄆ 313C	ㅗᄆᄆᄆ 314C	ㅗᄆᄆᄆ 315C	ㅗᄆᄆᄆ 316C	ㅗᄆᄆᄆ 317C	ㅗᄆᄆᄆ 318C
D	ㅗᄆᄆᄆ 313D	ㅗᄆᄆᄆ 314D	ㅗᄆᄆᄆ 315D	ㅗᄆᄆᄆ 316D	ㅗᄆᄆᄆ 317D	ㅗᄆᄆᄆ 318D
E	ㅗᄆᄆᄆ 313E	ㅗᄆᄆᄆ 314E	ㅗᄆᄆᄆ 315E	ㅗᄆᄆᄆ 316E	ㅗᄆᄆᄆ 317E	ㅗᄆᄆᄆ 318E
F	ㅗᄆᄆᄆ 313F	ㅗᄆᄆᄆ 314F	ㅗᄆᄆᄆ 315F	ㅗᄆᄆᄆ 316F	ㅗᄆᄆᄆ 317F	

**Modern letters**

3131	ㄱ	HANGUL LETTER KIYEOK
	≈ 1100	ㄱ hangul choseong kiyeok
3132	ㄲ	HANGUL LETTER SSANGKIYEOK
	≈ 1101	ㄲ hangul choseong ssangkiyeok
3133	ㄴ	HANGUL LETTER KIYEOK-SIOS
	≈ 11AA	ㄴ hangul jongseong kiyeok-sios
3134	ㄷ	HANGUL LETTER NIEUN
	≈ 1102	ㄷ hangul choseong nieun
3135	ㄸ	HANGUL LETTER NIEUN-CIEUC
	≈ 11AC	ㄸ hangul jongseong nieun-cieuc
3136	ㄹ	HANGUL LETTER NIEUN-HIEUH
	≈ 11AD	ㄹ hangul jongseong nieun-hieuh
3137	ㅁ	HANGUL LETTER TIKEUT
	≈ 1103	ㅁ hangul choseong tikeut
3138	ㅂ	HANGUL LETTER SSANGTIKEUT
	≈ 1104	ㅂ hangul choseong ssangtikeut
3139	ㅇ	HANGUL LETTER RIEUL
	≈ 1105	ㅇ hangul choseong rieul
313A	ㅅ	HANGUL LETTER RIEUL-KIYEOK
	≈ 11B0	ㅅ hangul jongseong rieul-kiyeok
313B	ㅆ	HANGUL LETTER RIEUL-MIEUM
	≈ 11B1	ㅆ hangul jongseong rieul-mieum
313C	ㅈ	HANGUL LETTER RIEUL-PIEUP
	≈ 11B2	ㅈ hangul jongseong rieul-pieup
313D	ㅊ	HANGUL LETTER RIEUL-SIOS
	≈ 11B3	ㅊ hangul jongseong rieul-sios
313E	ㅌ	HANGUL LETTER RIEUL-THIEUTH
	≈ 11B4	ㅌ hangul jongseong rieul-thieuth
313F	ㅍ	HANGUL LETTER RIEUL-PHIEUPH
	≈ 11B5	ㅍ hangul jongseong rieul-phieuph
3140	ㅎ	HANGUL LETTER RIEUL-HIEUH
	≈ 111A	ㅎ hangul choseong rieul-hieuh
3141	ㅁ	HANGUL LETTER MIEUM
	≈ 1106	ㅁ hangul choseong mieum
3142	ㅅ	HANGUL LETTER PIEUP
	≈ 1107	ㅅ hangul choseong pieup
3143	ㅆ	HANGUL LETTER SSANGPIEUP
	≈ 1108	ㅆ hangul choseong ssangpieup
3144	ㅈ	HANGUL LETTER PIEUP-SIOS
	≈ 1121	ㅈ hangul choseong pieup-sios
3145	ㅊ	HANGUL LETTER SIOS
	≈ 1109	ㅊ hangul choseong sios
3146	ㅌ	HANGUL LETTER SSANGSIOS
	≈ 110A	ㅌ hangul choseong ssangsios
3147	ㅇ	HANGUL LETTER IEUNG
	≈ 110B	ㅇ hangul choseong ieung
3148	ㅈ	HANGUL LETTER CIEUC
	≈ 110C	ㅈ hangul choseong cieuc
3149	ㅊ	HANGUL LETTER SSANGCIEUC
	≈ 110D	ㅊ hangul choseong ssangcieuc
314A	ㅌ	HANGUL LETTER CHIEUCH
	≈ 110E	ㅌ hangul choseong chieuch
314B	ㅍ	HANGUL LETTER KHIEUKH
	≈ 110F	ㅍ hangul choseong khieukh
314C	ㅍ	HANGUL LETTER THIEUTH
	≈ 1110	ㅍ hangul choseong thieuth

314D	ㅍ	HANGUL LETTER PHIEUPH
	≈ 1111	ㅍ hangul choseong phieuph
314E	ㅎ	HANGUL LETTER HIEUH
	≈ 1112	ㅎ hangul choseong hieuh
314F	ㅏ	HANGUL LETTER A
	≈ 1161	ㅏ hangul jungseong a
3150	ㅑ	HANGUL LETTER AE
	≈ 1162	ㅑ hangul jungseong ae
3151	ㅓ	HANGUL LETTER YA
	≈ 1163	ㅓ hangul jungseong ya
3152	ㅕ	HANGUL LETTER YAE
	≈ 1164	ㅕ hangul jungseong yae
3153	ㅗ	HANGUL LETTER EO
	≈ 1165	ㅗ hangul jungseong eo
3154	ㅛ	HANGUL LETTER E
	≈ 1166	ㅛ hangul jungseong e
3155	ㅜ	HANGUL LETTER YEO
	≈ 1167	ㅜ hangul jungseong yeo
3156	ㅠ	HANGUL LETTER YE
	≈ 1168	ㅠ hangul jungseong ye
3157	ㅡ	HANGUL LETTER O
	≈ 1169	ㅡ hangul jungseong o
3158	ㅗ	HANGUL LETTER WA
	≈ 116A	ㅗ hangul jungseong wa
3159	ㅜ	HANGUL LETTER WAE
	≈ 116B	ㅜ hangul jungseong wae
315A	ㅛ	HANGUL LETTER OE
	≈ 116C	ㅛ hangul jungseong oe
315B	ㅠ	HANGUL LETTER YO
	≈ 116D	ㅠ hangul jungseong yo
315C	ㅜ	HANGUL LETTER U
	≈ 116E	ㅜ hangul jungseong u
315D	ㅜ	HANGUL LETTER WEO
	≈ 116F	ㅜ hangul jungseong weo
315E	ㅜ	HANGUL LETTER WE
	≈ 1170	ㅜ hangul jungseong we
315F	ㅜ	HANGUL LETTER WI
	≈ 1171	ㅜ hangul jungseong wi
3160	ㅠ	HANGUL LETTER YU
	≈ 1172	ㅠ hangul jungseong yu
3161	ㅡ	HANGUL LETTER EU
	≈ 1173	ㅡ hangul jungseong eu
3162	ㅜ	HANGUL LETTER YI
	≈ 1174	ㅜ hangul jungseong yi
3163	ㅣ	HANGUL LETTER I
	≈ 1175	ㅣ hangul jungseong i

**Special character**

3164	ㅍ	HANGUL FILLER
		= cae om
	≈ 1160	ㅍ hangul jungseong filler

**Archaic letters**

3165	ㅌ	HANGUL LETTER SSANGNIEUN
	≈ 1114	ㅌ hangul choseong ssangnieun
3166	ㅌ	HANGUL LETTER NIEUN-TIKEUT
	≈ 1115	ㅌ hangul choseong nieun-tikeut

3167	ㄴㅏ	HANGUL LETTER NIEUN-SIOS ≈ 11C7 ㄴㅏ hangul jongseong nieun-sios
3168	ㄴㅓ	HANGUL LETTER NIEUN-PANSIOS ≈ 11C8 ㄴㅓ hangul jongseong nieun-pansios
3169	ㄹㅏ	HANGUL LETTER RIEUL-KIYEOK-SIOS ≈ 11CC ㄹㅏ hangul jongseong rieul-kiyeok-sios
316A	ㄹㅓ	HANGUL LETTER RIEUL-TIKEUT ≈ 11CE ㄹㅓ hangul jongseong rieul-tikeut
316B	ㄹㅕ	HANGUL LETTER RIEUL-PIEUP-SIOS ≈ 11D3 ㄹㅕ hangul jongseong rieul-pieup-sios
316C	ㄹㅗ	HANGUL LETTER RIEUL-PANSIOS ≈ 11D7 ㄹㅗ hangul jongseong rieul-pansios
316D	ㄹㅛ	HANGUL LETTER RIEUL-YEORINHIEUH ≈ 11D9 ㄹㅛ hangul jongseong rieul-yeorinhieuh
316E	ㅁㅏ	HANGUL LETTER MIEUM-PIEUP ≈ 111C ㅁㅏ hangul chosong mieum-pieup
316F	ㅁㅓ	HANGUL LETTER MIEUM-SIOS ≈ 11DD ㅁㅓ hangul jongseong mieum-sios
3170	ㅁㅓ	HANGUL LETTER MIEUM-PANSIOS ≈ 11DF ㅁㅓ hangul jongseong mieum-pansios
3171	ㅁ	HANGUL LETTER KAPYEOUNMIEUM ≈ 111D ㅁ hangul chosong kapyeounmieum
3172	ㅁㅕ	HANGUL LETTER PIEUP-KIYEOK ≈ 111E ㅁㅕ hangul chosong pieup-kiyeok
3173	ㅁㅓ	HANGUL LETTER PIEUP-TIKEUT ≈ 1120 ㅁㅓ hangul chosong pieup-tikeut
3174	ㅁㅕ	HANGUL LETTER PIEUP-SIOS-KIYEOK ≈ 1122 ㅁㅕ hangul chosong pieup-sios-kiyeok
3175	ㅁㅓ	HANGUL LETTER PIEUP-SIOS-TIKEUT ≈ 1123 ㅁㅓ hangul chosong pieup-sios-tikeut
3176	ㅁㅕ	HANGUL LETTER PIEUP-CIEUC ≈ 1127 ㅁㅕ hangul chosong pieup-cieuc
3177	ㅁㅕ	HANGUL LETTER PIEUP-THIEUTH ≈ 1129 ㅁㅕ hangul chosong pieup-thieuth
3178	ㅁ	HANGUL LETTER KAPYEOUNPIEUP ≈ 112B ㅁ hangul chosong kapyeounpieup
3179	ㅁ	HANGUL LETTER KAPYEOUNSSANGPIEUP ≈ 112C ㅁ hangul chosong kapyeounssangpieup
317A	ㅁㅕ	HANGUL LETTER SIOS-KIYEOK ≈ 112D ㅁㅕ hangul chosong sios-kiyeok
317B	ㅁㅓ	HANGUL LETTER SIOS-NIEUN ≈ 112E ㅁㅓ hangul chosong sios-nieun
317C	ㅁㅓ	HANGUL LETTER SIOS-TIKEUT ≈ 112F ㅁㅓ hangul chosong sios-tikeut
317D	ㅁㅕ	HANGUL LETTER SIOS-PIEUP ≈ 1132 ㅁㅕ hangul chosong sios-pieup
317E	ㅁㅕ	HANGUL LETTER SIOS-CIEUC ≈ 1136 ㅁㅕ hangul chosong sios-cieuc
317F	ㅁ	HANGUL LETTER PANSIOS ≈ 1140 ㅁ hangul chosong pansios
3180	ㅇ	HANGUL LETTER SSANGIEUNG = ssangyesieung ≈ 1147 ㅇ hangul chosong ssangieung
3181	ㅇ	HANGUL LETTER YESIEUNG • archaic velar nasal ≈ 114C ㅇ hangul chosong yesieung

3182	ㅇㅏ	HANGUL LETTER YESIEUNG-SIOS ≈ 11F1 ㅇㅏ hangul jongseong yesieung-sios
3183	ㅇㅓ	HANGUL LETTER YESIEUNG-PANSIOS ≈ 11F2 ㅇㅓ hangul jongseong yesieung-pansios
3184	ㅊ	HANGUL LETTER KAPYEOUNPHIEUPH ≈ 1157 ㅊ hangul chosong kapyeounphieuph
3185	ㅎ	HANGUL LETTER SSANGHIEUH ≈ 1158 ㅎ hangul chosong ssanghieuh
3186	ㅎ	HANGUL LETTER YEORINHIEUH • archaic glottal stop ≈ 1159 ㅎ hangul chosong yeorinhieuh
3187	ㅑ	HANGUL LETTER YO-YA ≈ 1184 ㅑ hangul jongseong yo-ya
3188	ㅑ	HANGUL LETTER YO-YAE ≈ 1185 ㅑ hangul jongseong yo-yae
3189	ㅑ	HANGUL LETTER YO-I ≈ 1188 ㅑ hangul jongseong yo-i
318A	ㅑ	HANGUL LETTER YU-YEO ≈ 1191 ㅑ hangul jongseong yu-yeo
318B	ㅑ	HANGUL LETTER YU-YE ≈ 1192 ㅑ hangul jongseong yu-ye
318C	ㅑ	HANGUL LETTER YU-I ≈ 1194 ㅑ hangul jongseong yu-i
318D	ㅓ	HANGUL LETTER ARAEA ≈ 119E ㅓ hangul jongseong araea
318E	ㅓ	HANGUL LETTER ARAEAE ≈ 11A1 ㅓ hangul jongseong araea-i

	319
0	
	3190
1	└
	3191
2	一
	3192
3	二
	3193
4	三
	3194
5	四
	3195
6	上
	3196
7	中
	3197
8	下
	3198
9	甲
	3199
A	乙
	319A
B	丙
	319B
C	丁
	319C
D	天
	319D
E	地
	319E
F	人
	319F

**Tateten**

3190 | IDEOGRAPHIC ANNOTATION LINKING MARK  
= tateten

**Kaeriten**

3191 └ IDEOGRAPHIC ANNOTATION REVERSE MARK  
= kaeriten re

3192 - IDEOGRAPHIC ANNOTATION ONE MARK  
≈ <sup> 4E00 一

3193 = IDEOGRAPHIC ANNOTATION TWO MARK  
≈ <sup> 4E8C 二

3194 ≡ IDEOGRAPHIC ANNOTATION THREE MARK  
≈ <sup> 4E09 三

3195 四 IDEOGRAPHIC ANNOTATION FOUR MARK  
≈ <sup> 56DB 四

3196 上 IDEOGRAPHIC ANNOTATION TOP MARK  
≈ <sup> 4E0A 上

3197 中 IDEOGRAPHIC ANNOTATION MIDDLE MARK  
≈ <sup> 4E2D 中

3198 下 IDEOGRAPHIC ANNOTATION BOTTOM MARK  
≈ <sup> 4E0B 下

3199 甲 IDEOGRAPHIC ANNOTATION FIRST MARK  
≈ <sup> 7532 甲

319A 乙 IDEOGRAPHIC ANNOTATION SECOND MARK  
≈ <sup> 4E59 乙

319B 丙 IDEOGRAPHIC ANNOTATION THIRD MARK  
≈ <sup> 4E19 丙

319C 丁 IDEOGRAPHIC ANNOTATION FOURTH MARK  
≈ <sup> 4E01 丁

319D 天 IDEOGRAPHIC ANNOTATION HEAVEN MARK  
≈ <sup> 5929 天

319E 地 IDEOGRAPHIC ANNOTATION EARTH MARK  
≈ <sup> 5730 地

319F 人 IDEOGRAPHIC ANNOTATION MAN MARK  
≈ <sup> 4EBA 人

	31A	31B
0	ㄅ 31A0	ㄆ 31B0
1	ㄇ 31A1	ㄏ 31B1
2	ㄏ 31A2	ㄨ 31B2
3	ㄨ 31A3	ㄩ 31B3
4	ㄜ 31A4	ㄝ 31B4
5	ㄝ 31A5	ㄞ 31B5
6	ㄞ 31A6	ㄟ 31B6
7	ㄟ 31A7	ㄠ 31B7
8	ㄡ 31A8	ㄢ 31B8
9	ㄣ 31A9	ㄤ 31B9
A	ㄥ 31AA	ㄦ 31BA
B	ㄧ 31AB	
C	ㄨ 31AC	
D	ㄩ 31AD	
E	ㄜ 31AE	
F	ㄝ 31AF	





































See also the Bopomofo block

#### Extended Bopomofo for Minnan and Hakka





































31A0	ㄅ	BOPOMOFO LETTER BU
31A1	ㄇ	BOPOMOFO LETTER ZI
31A2	ㄏ	BOPOMOFO LETTER JI
31A3	ㄨ	BOPOMOFO LETTER GU
31A4	ㄜ	BOPOMOFO LETTER EE
31A5	ㄝ	BOPOMOFO LETTER ENN
31A6	ㄞ	BOPOMOFO LETTER OO
31A7	ㄟ	BOPOMOFO LETTER ONN
31A8	ㄡ	BOPOMOFO LETTER IR
31A9	ㄣ	BOPOMOFO LETTER ANN
31AA	ㄥ	BOPOMOFO LETTER INN
31AB	ㄧ	BOPOMOFO LETTER UNN
31AC	ㄨ	BOPOMOFO LETTER IM
31AD	ㄩ	BOPOMOFO LETTER NGG
31AE	ㄜ	BOPOMOFO LETTER AINN
31AF	ㄝ	BOPOMOFO LETTER AUNN
31B0	ㄆ	BOPOMOFO LETTER AM
31B1	ㄏ	BOPOMOFO LETTER OM
31B2	ㄨ	BOPOMOFO LETTER ONG
31B3	ㄩ	BOPOMOFO LETTER INNN
31B4	ㄜ	BOPOMOFO FINAL LETTER P
31B5	ㄝ	BOPOMOFO FINAL LETTER T
31B6	ㄞ	BOPOMOFO FINAL LETTER K
31B7	ㄟ	BOPOMOFO FINAL LETTER H

#### Extended Bopomofo for Hmu and Ge

31B8	ㄢ	BOPOMOFO LETTER GH
31B9	ㄤ	BOPOMOFO LETTER LH
31BA	ㄦ	BOPOMOFO LETTER ZY

	31C	31D	31E
0	 31C0	 31D0	 31E0
1	 31C1	 31D1	 31E1
2	 31C2	 31D2	 31E2
3	 31C3	 31D3	 31E3
4	 31C4	 31D4	
5	 31C5	 31D5	
6	 31C6	 31D6	
7	 31C7	 31D7	
8	 31C8	 31D8	
9	 31C9	 31D9	
A	 31CA	 31DA	
B	 31CB	 31DB	
C	 31CC	 31DC	
D	 31CD	 31DD	
E	 31CE	 31DE	
F	 31CF	 31DF	

## CJK strokes

31C0		CJK STROKE T
31C1		CJK STROKE WG
31C2		CJK STROKE XG
31C3		CJK STROKE BXG
31C4		CJK STROKE SW
31C5		CJK STROKE HZZ
31C6		CJK STROKE HZG
31C7		CJK STROKE HP
31C8		CJK STROKE HZWG
31C9		CJK STROKE SZWG
31CA		CJK STROKE HZT
31CB		CJK STROKE HZZP
31CC		CJK STROKE HPWG
31CD		CJK STROKE HZW
31CE		CJK STROKE HZZZ
31CF		CJK STROKE N
31D0		CJK STROKE H
31D1		CJK STROKE S
31D2		CJK STROKE P
31D3		CJK STROKE SP
31D4		CJK STROKE D
31D5		CJK STROKE HZ
31D6		CJK STROKE HG
31D7		CJK STROKE SZ
31D8		CJK STROKE SWZ
31D9		CJK STROKE ST
31DA		CJK STROKE SG
31DB		CJK STROKE PD
31DC		CJK STROKE PZ
31DD		CJK STROKE TN
31DE		CJK STROKE SZZ
31DF		CJK STROKE SWG
31E0		CJK STROKE HXWG
31E1		CJK STROKE HZZZG
31E2		CJK STROKE PG
31E3		CJK STROKE Q

	31F
0	ク 31F0
1	シ 31F1
2	ス 31F2
3	ト 31F3
4	ヌ 31F4
5	ハ 31F5
6	ヒ 31F6
7	フ 31F7
8	ヘ 31F8
9	ホ 31F9
A	ム 31FA
B	ラ 31FB
C	リ 31FC
D	ル 31FD
E	レ 31FE
F	ロ 31FF

**Phonetic extensions for Ainu**

31F0	ク	KATAKANA LETTER SMALL KU
31F1	シ	KATAKANA LETTER SMALL SI
31F2	ス	KATAKANA LETTER SMALL SU
31F3	ト	KATAKANA LETTER SMALL TO
31F4	ヌ	KATAKANA LETTER SMALL NU
31F5	ハ	KATAKANA LETTER SMALL HA
31F6	ヒ	KATAKANA LETTER SMALL HI
31F7	フ	KATAKANA LETTER SMALL HU
31F8	ヘ	KATAKANA LETTER SMALL HE
31F9	ホ	KATAKANA LETTER SMALL HO
31FA	ム	KATAKANA LETTER SMALL MU
31FB	ラ	KATAKANA LETTER SMALL RA
31FC	リ	KATAKANA LETTER SMALL RI
31FD	ル	KATAKANA LETTER SMALL RU
31FE	レ	KATAKANA LETTER SMALL RE
31FF	ロ	KATAKANA LETTER SMALL RO



	320	321	322	323	324	325	326	327	328	329	32A	32B	32C	32D	32E	32F
0	(ㄱ) 3200	(다) 3210	(一) 3220	(日) 3230	(祭) 3240	PTE 3250	(ㄱ) 3260	(다) 3270	(一) 3280	(日) 3290	(項) 32A0	(夜) 32B0	1月 32C0	(ア) 32D0	(チ) 32E0	(ム) 32F0
1	(ㄴ) 3201	(라) 3211	(二) 3221	(株) 3231	(休) 3241	(21) 3251	(ㄴ) 3261	(라) 3271	(二) 3281	(株) 3291	(休) 32A1	(36) 32B1	2月 32C1	(イ) 32D1	(ツ) 32E1	(メ) 32F1
2	(ㄷ) 3202	(마) 3212	(三) 3222	(有) 3232	(自) 3242	(22) 3252	(ㄷ) 3262	(마) 3272	(三) 3282	(有) 3292	(写) 32A2	(37) 32B2	3月 32C2	(ウ) 32D2	(テ) 32E2	(モ) 32F2
3	(ㄹ) 3203	(바) 3213	(四) 3223	(社) 3233	(至) 3243	(23) 3253	(ㄹ) 3263	(바) 3273	(四) 3283	(社) 3293	(正) 32A3	(38) 32B3	4月 32C3	(エ) 32D3	(ト) 32E3	(ヤ) 32F3
4	(ㅁ) 3204	(사) 3214	(五) 3224	(名) 3234	(問) 3244	(24) 3254	(ㅁ) 3264	(사) 3274	(五) 3284	(名) 3294	(上) 32A4	(39) 32B4	5月 32C4	(オ) 32D4	(ナ) 32E4	(ユ) 32F4
5	(ㅂ) 3205	(아) 3215	(六) 3225	(特) 3235	(幼) 3245	(25) 3255	(ㅂ) 3265	(아) 3275	(六) 3285	(特) 3295	(中) 32A5	(40) 32B5	6月 32C5	(カ) 32D5	(ニ) 32E5	(ヨ) 32F5
6	(ㅅ) 3206	(자) 3216	(七) 3226	(財) 3236	(文) 3246	(26) 3256	(ㅅ) 3266	(자) 3276	(七) 3286	(財) 3296	(下) 32A6	(41) 32B6	7月 32C6	(キ) 32D6	(ヌ) 32E6	(ラ) 32F6
7	(ㅇ) 3207	(차) 3217	(八) 3227	(祝) 3237	(箏) 3247	(27) 3257	(ㅇ) 3267	(차) 3277	(八) 3287	(祝) 3297	(左) 32A7	(42) 32B7	8月 32C7	(ク) 32D7	(ネ) 32E7	(リ) 32F7
8	(ㅈ) 3208	(카) 3218	(九) 3228	(勞) 3238	(10) 3248	(28) 3258	(ㅈ) 3268	(카) 3278	(九) 3288	(勞) 3298	(右) 32A8	(43) 32B8	9月 32C8	(ケ) 32D8	(ノ) 32E8	(ル) 32F8
9	(ㅊ) 3209	(타) 3219	(十) 3229	(代) 3239	(20) 3249	(29) 3259	(ㅊ) 3269	(타) 3279	(十) 3289	(秘) 3299	(医) 32A9	(44) 32B9	10月 32C9	(コ) 32D9	(ハ) 32E9	(レ) 32F9
A	(ㅋ) 320A	(파) 321A	(月) 322A	(呼) 323A	(30) 324A	(30) 325A	(ㅋ) 326A	(파) 327A	(月) 328A	(男) 329A	(宗) 32AA	(45) 32BA	11月 32CA	(サ) 32DA	(ヒ) 32EA	(ロ) 32FA
B	(ㅌ) 320B	(하) 321B	(火) 322B	(学) 323B	(40) 324B	(31) 325B	(ㅌ) 326B	(하) 327B	(火) 328B	(女) 329B	(学) 32AB	(46) 32BB	12月 32CB	(シ) 32DB	(フ) 32EB	(ワ) 32FB
C	(ㄷ) 320C	(주) 321C	(水) 322C	(監) 323C	(50) 324C	(32) 325C	(ㄷ) 326C	(참고) 327C	(水) 328C	(適) 329C	(監) 32AC	(47) 32BC	Hg 32CC	(ス) 32DC	(ヘ) 32EC	(卅) 32FC
D	(ㅎ) 320D	(오전) 321D	(木) 322D	(企) 323D	(60) 324D	(33) 325D	(ㅎ) 326D	(주의) 327D	(木) 328D	(優) 329D	(企) 32AD	(48) 32BD	erg 32CD	(セ) 32DD	(ホ) 32ED	(エ) 32FD
E	(가) 320E	(오후) 321E	(金) 322E	(資) 323E	(70) 324E	(34) 325E	(가) 326E	(우) 327E	(金) 328E	(印) 329E	(資) 32AE	(49) 32BE	eV 32CE	(ソ) 32DE	(マ) 32EE	(ヲ) 32FE
F	(나) 320F		(土) 322F	(協) 323F	(80) 324F	(35) 325F	(나) 326F	(꺄) 327F	(土) 328F	(注) 329F	(協) 32AF	(50) 32BF	LTD 32CF	(タ) 32DF	(ミ) 32EF	

**Parenthesized Hangul letters**

- 3200 (ㄱ) PARENTHESIZED HANGUL KIYEOK  
≈ 0028 ( 1100 ㄱ 0029 )
- 3201 (ㄴ) PARENTHESIZED HANGUL NIEUN  
≈ 0028 ( 1102 ㄴ 0029 )
- 3202 (ㄷ) PARENTHESIZED HANGUL TKEUT  
≈ 0028 ( 1103 ㄷ 0029 )
- 3203 (ㄹ) PARENTHESIZED HANGUL RIEUL  
≈ 0028 ( 1105 ㄹ 0029 )
- 3204 (ㅁ) PARENTHESIZED HANGUL MIEUM  
≈ 0028 ( 1106 ㅁ 0029 )
- 3205 (ㅂ) PARENTHESIZED HANGUL PIEUP  
≈ 0028 ( 1107 ㅂ 0029 )
- 3206 (ㅅ) PARENTHESIZED HANGUL SIOS  
≈ 0028 ( 1109 ㅅ 0029 )
- 3207 (ㅇ) PARENTHESIZED HANGUL IEUNG  
≈ 0028 ( 1108 ㅇ 0029 )
- 3208 (ㅈ) PARENTHESIZED HANGUL CIEUC  
≈ 0028 ( 110C ㅈ 0029 )
- 3209 (ㅊ) PARENTHESIZED HANGUL CHIEUCH  
≈ 0028 ( 110E ㅊ 0029 )
- 320A (ㅋ) PARENTHESIZED HANGUL KHIEUKH  
≈ 0028 ( 110F ㅋ 0029 )
- 320B (ㅌ) PARENTHESIZED HANGUL THIEUTH  
≈ 0028 ( 1110 ㅌ 0029 )
- 320C (ㅍ) PARENTHESIZED HANGUL PHIEUPH  
≈ 0028 ( 1111 ㅍ 0029 )
- 320D (ㅎ) PARENTHESIZED HANGUL HIEUH  
≈ 0028 ( 1112 ㅎ 0029 )

**Parenthesized Hangul syllables**

- 320E (ㄱㅏ) PARENTHESIZED HANGUL KIYEOK A  
≈ 0028 ( 1100 ㄱ 1161 ㅏ 0029 )
- 320F (ㄴㅏ) PARENTHESIZED HANGUL NIEUN A  
≈ 0028 ( 1102 ㄴ 1161 ㅏ 0029 )
- 3210 (ㄷㅏ) PARENTHESIZED HANGUL TKEUT A  
≈ 0028 ( 1103 ㄷ 1161 ㅏ 0029 )
- 3211 (ㄹㅏ) PARENTHESIZED HANGUL RIEUL A  
≈ 0028 ( 1105 ㄹ 1161 ㅏ 0029 )
- 3212 (ㅁㅏ) PARENTHESIZED HANGUL MIEUM A  
≈ 0028 ( 1106 ㅁ 1161 ㅏ 0029 )
- 3213 (ㅂㅏ) PARENTHESIZED HANGUL PIEUP A  
≈ 0028 ( 1107 ㅂ 1161 ㅏ 0029 )
- 3214 (ㅅㅏ) PARENTHESIZED HANGUL SIOS A  
≈ 0028 ( 1109 ㅅ 1161 ㅏ 0029 )
- 3215 (ㅇㅏ) PARENTHESIZED HANGUL IEUNG A  
≈ 0028 ( 1108 ㅇ 1161 ㅏ 0029 )
- 3216 (ㅈㅏ) PARENTHESIZED HANGUL CIEUC A  
≈ 0028 ( 110C ㅈ 1161 ㅏ 0029 )
- 3217 (ㅊㅏ) PARENTHESIZED HANGUL CHIEUCH A  
≈ 0028 ( 110E ㅊ 1161 ㅏ 0029 )
- 3218 (ㅋㅏ) PARENTHESIZED HANGUL KHIEUKH A  
≈ 0028 ( 110F ㅋ 1161 ㅏ 0029 )
- 3219 (ㅌㅏ) PARENTHESIZED HANGUL THIEUTH A  
≈ 0028 ( 1110 ㅌ 1161 ㅏ 0029 )
- 321A (ㅍㅏ) PARENTHESIZED HANGUL PHIEUPH A  
≈ 0028 ( 1111 ㅍ 1161 ㅏ 0029 )

- 321B (ㅎㅏ) PARENTHESIZED HANGUL HIEUH A  
≈ 0028 ( 1112 ㅎ 1161 ㅏ 0029 )
- 321C (ㄱㅑ) PARENTHESIZED HANGUL CIEUC U  
≈ 0028 ( 110C ㅈ 116E ㅑ 0029 )

**Parenthesized Korean words**

- 321D (오월) PARENTHESIZED KOREAN CHARACTER OJEON  
≈ 0028 ( 110B ㅇ 1169 ㅓ 110C ㅈ 1165 ㅓ 11AB ㅓ 0029 )
- 321E (오십) PARENTHESIZED KOREAN CHARACTER O HU  
≈ 0028 ( 110B ㅇ 1169 ㅓ 1112 ㅎ 116E ㅓ 0029 )

**Parenthesized ideographs**

- 3220 (一) PARENTHESIZED IDEOGRAPH ONE  
≈ 0028 ( 4E00 一 0029 )
- 3221 (二) PARENTHESIZED IDEOGRAPH TWO  
≈ 0028 ( 4E8C 二 0029 )
- 3222 (三) PARENTHESIZED IDEOGRAPH THREE  
≈ 0028 ( 4E09 三 0029 )
- 3223 (四) PARENTHESIZED IDEOGRAPH FOUR  
≈ 0028 ( 56DB 四 0029 )
- 3224 (五) PARENTHESIZED IDEOGRAPH FIVE  
≈ 0028 ( 4E94 五 0029 )
- 3225 (六) PARENTHESIZED IDEOGRAPH SIX  
≈ 0028 ( 516D 六 0029 )
- 3226 (七) PARENTHESIZED IDEOGRAPH SEVEN  
≈ 0028 ( 4E03 七 0029 )
- 3227 (八) PARENTHESIZED IDEOGRAPH EIGHT  
≈ 0028 ( 516B 八 0029 )
- 3228 (九) PARENTHESIZED IDEOGRAPH NINE  
≈ 0028 ( 4E5D 九 0029 )
- 3229 (十) PARENTHESIZED IDEOGRAPH TEN  
≈ 0028 ( 5341 十 0029 )
- 322A (月) PARENTHESIZED IDEOGRAPH MOON  
• Monday  
≈ 0028 ( 6708 月 0029 )
- 322B (火) PARENTHESIZED IDEOGRAPH FIRE  
• Tuesday  
≈ 0028 ( 706B 火 0029 )
- 322C (水) PARENTHESIZED IDEOGRAPH WATER  
• Wednesday  
≈ 0028 ( 6C34 水 0029 )
- 322D (木) PARENTHESIZED IDEOGRAPH WOOD  
• Thursday  
≈ 0028 ( 6728 木 0029 )
- 322E (金) PARENTHESIZED IDEOGRAPH METAL  
• Friday  
≈ 0028 ( 91D1 金 0029 )
- 322F (土) PARENTHESIZED IDEOGRAPH EARTH  
• Saturday  
≈ 0028 ( 571F 土 0029 )
- 3230 (日) PARENTHESIZED IDEOGRAPH SUN  
• Sunday  
≈ 0028 ( 65E5 日 0029 )
- 3231 (株) PARENTHESIZED IDEOGRAPH STOCK  
• incorporated  
≈ 0028 ( 682A 株 0029 )

- 3232 (有) PARENTHESIZED IDEOGRAPH HAVE  
• limited  
≈ 0028 ( 6709 有 0029 )
- 3233 (社) PARENTHESIZED IDEOGRAPH SOCIETY  
• company  
≈ 0028 ( 793E 社 0029 )
- 3234 (名) PARENTHESIZED IDEOGRAPH NAME  
≈ 0028 ( 540D 名 0029 )
- 3235 (特) PARENTHESIZED IDEOGRAPH SPECIAL  
≈ 0028 ( 7279 特 0029 )
- 3236 (財) PARENTHESIZED IDEOGRAPH FINANCIAL  
≈ 0028 ( 8CA1 財 0029 )
- 3237 (祝) PARENTHESIZED IDEOGRAPH CONGRATULATION  
≈ 0028 ( 795D 祝 0029 )
- 3238 (勞) PARENTHESIZED IDEOGRAPH LABOR  
≈ 0028 ( 52B4 勞 0029 )
- 3239 (代) PARENTHESIZED IDEOGRAPH REPRESENT  
≈ 0028 ( 4EE3 代 0029 )
- 323A (呼) PARENTHESIZED IDEOGRAPH CALL  
≈ 0028 ( 547C 呼 0029 )
- 323B (學) PARENTHESIZED IDEOGRAPH STUDY  
≈ 0028 ( 5B66 學 0029 )
- 323C (監) PARENTHESIZED IDEOGRAPH SUPERVISE  
≈ 0028 ( 76E3 監 0029 )
- 323D (企) PARENTHESIZED IDEOGRAPH ENTERPRISE  
≈ 0028 ( 4F01 企 0029 )
- 323E (資) PARENTHESIZED IDEOGRAPH RESOURCE  
≈ 0028 ( 8CC7 資 0029 )
- 323F (協) PARENTHESIZED IDEOGRAPH ALLIANCE  
≈ 0028 ( 5354 協 0029 )
- 3240 (祭) PARENTHESIZED IDEOGRAPH FESTIVAL  
≈ 0028 ( 796D 祭 0029 )
- 3241 (休) PARENTHESIZED IDEOGRAPH REST  
≈ 0028 ( 4F11 休 0029 )
- 3242 (自) PARENTHESIZED IDEOGRAPH SELF  
• from  
≈ 0028 ( 81EA 自 0029 )
- 3243 (至) PARENTHESIZED IDEOGRAPH REACH  
• to  
≈ 0028 ( 81F3 至 0029 )

**Circled ideographs from ARIB STD B24**

- 3244 (問) CIRCLED IDEOGRAPH QUESTION  
≈ <circle> 554F 問
- 3245 (幼) CIRCLED IDEOGRAPH KINDERGARTEN  
≈ <circle> 5E7C 幼
- 3246 (文) CIRCLED IDEOGRAPH SCHOOL  
≈ <circle> 6587 文
- 3247 (箏) CIRCLED IDEOGRAPH KOTO  
≈ <circle> 7B8F 箏

**Circled numbers on black squares from ARIB STD B24**

- 3248 [10] CIRCLED NUMBER TEN ON BLACK SQUARE  
= speed limit 10 km/h
- 3249 [20] CIRCLED NUMBER TWENTY ON BLACK SQUARE  
= speed limit 20 km/h
- 324A [30] CIRCLED NUMBER THIRTY ON BLACK SQUARE  
= speed limit 30 km/h

- 324B [40] CIRCLED NUMBER FORTY ON BLACK SQUARE  
= speed limit 40 km/h
- 324C [50] CIRCLED NUMBER FIFTY ON BLACK SQUARE  
= speed limit 50 km/h
- 324D [60] CIRCLED NUMBER SIXTY ON BLACK SQUARE  
= speed limit 60 km/h
- 324E [70] CIRCLED NUMBER SEVENTY ON BLACK SQUARE  
= speed limit 70 km/h
- 324F [80] CIRCLED NUMBER EIGHTY ON BLACK SQUARE  
= speed limit 80 km/h

**Squared Latin abbreviation**

- 3250 PTE PARTNERSHIP SIGN  
≈ <square> 0050 P 0054 T 0045 E

**Circled numbers**

- 3251 ㉑ CIRCLED NUMBER TWENTY ONE  
≈ <circle> 0032 2 0031 1
- 3252 ㉒ CIRCLED NUMBER TWENTY TWO  
≈ <circle> 0032 2 0032 2
- 3253 ㉓ CIRCLED NUMBER TWENTY THREE  
≈ <circle> 0032 2 0033 3
- 3254 ㉔ CIRCLED NUMBER TWENTY FOUR  
≈ <circle> 0032 2 0034 4
- 3255 ㉕ CIRCLED NUMBER TWENTY FIVE  
≈ <circle> 0032 2 0035 5
- 3256 ㉖ CIRCLED NUMBER TWENTY SIX  
≈ <circle> 0032 2 0036 6
- 3257 ㉗ CIRCLED NUMBER TWENTY SEVEN  
≈ <circle> 0032 2 0037 7
- 3258 ㉘ CIRCLED NUMBER TWENTY EIGHT  
≈ <circle> 0032 2 0038 8
- 3259 ㉙ CIRCLED NUMBER TWENTY NINE  
≈ <circle> 0032 2 0039 9
- 325A ㉚ CIRCLED NUMBER THIRTY  
≈ <circle> 0033 3 0030 0
- 325B ㉛ CIRCLED NUMBER THIRTY ONE  
≈ <circle> 0033 3 0031 1
- 325C ㉜ CIRCLED NUMBER THIRTY TWO  
≈ <circle> 0033 3 0032 2
- 325D ㉝ CIRCLED NUMBER THIRTY THREE  
≈ <circle> 0033 3 0033 3
- 325E ㉞ CIRCLED NUMBER THIRTY FOUR  
≈ <circle> 0033 3 0034 4
- 325F ㉟ CIRCLED NUMBER THIRTY FIVE  
≈ <circle> 0033 3 0035 5

**Circled Hangul letters**

- 3260 ㉟ CIRCLED HANGUL KIYEOK  
≈ <circle> 1100 ㉟
- 3261 ㊱ CIRCLED HANGUL NIEUN  
≈ <circle> 1102 ㊱
- 3262 ㊲ CIRCLED HANGUL TIEUT  
≈ <circle> 1103 ㊲
- 3263 ㊳ CIRCLED HANGUL RIEUL  
≈ <circle> 1105 ㊳
- 3264 ㊴ CIRCLED HANGUL MIEUM  
≈ <circle> 1106 ㊴
- 3265 ㊵ CIRCLED HANGUL PIEUP  
≈ <circle> 1107 ㊵

- 3266 ㉠ CIRCLED HANGUL SIOS  
≈ <circle> 1109 ㅅ
- 3267 ㉡ CIRCLED HANGUL IEUNG  
≈ <circle> 110B ㅇ
- 3268 ㉢ CIRCLED HANGUL CIEUC  
≈ <circle> 110C ㅈ
- 3269 ㉣ CIRCLED HANGUL CHIEUCH  
≈ <circle> 110E ㅊ
- 326A ㉤ CIRCLED HANGUL KHIEUKH  
≈ <circle> 110F ㅋ
- 326B ㉥ CIRCLED HANGUL THIEUTH  
≈ <circle> 1110 ㅌ
- 326C ㉦ CIRCLED HANGUL PHIEUPH  
≈ <circle> 1111 ㅍ
- 326D ㉧ CIRCLED HANGUL HIEUH  
≈ <circle> 1112 ㅎ

**Circled Hangul syllables**

- 326E ㉨ CIRCLED HANGUL KIYEOK A  
≈ <circle> 1100 ㄱ 1161 ㅏ
- 326F ㉩ CIRCLED HANGUL NIEUN A  
≈ <circle> 1102 ㄴ 1161 ㅑ
- 3270 ㉪ CIRCLED HANGUL TIKEUT A  
≈ <circle> 1103 ㄷ 1161 ㅓ
- 3271 ㉫ CIRCLED HANGUL RIEUL A  
≈ <circle> 1105 ㄹ 1161 ㅕ
- 3272 ㉬ CIRCLED HANGUL MIEUM A  
≈ <circle> 1106 ㅁ 1161 ㅗ
- 3273 ㉭ CIRCLED HANGUL PIEUP A  
≈ <circle> 1107 ㅂ 1161 ㅛ
- 3274 ㉮ CIRCLED HANGUL SIOS A  
≈ <circle> 1109 ㅅ 1161 ㅝ
- 3275 ㉯ CIRCLED HANGUL IEUNG A  
≈ <circle> 110B ㅇ 1161 ㅟ
- 3276 ㉰ CIRCLED HANGUL CIEUC A  
≈ <circle> 110C ㅈ 1161 ㅛ
- 3277 ㉱ CIRCLED HANGUL CHIEUCH A  
≈ <circle> 110E ㅊ 1161 ㅝ
- 3278 ㉲ CIRCLED HANGUL KHIEUKH A  
≈ <circle> 110F ㅋ 1161 ㅟ
- 3279 ㉳ CIRCLED HANGUL THIEUTH A  
≈ <circle> 1110 ㅌ 1161 ㅛ
- 327A ㉴ CIRCLED HANGUL PHIEUPH A  
≈ <circle> 1111 ㅍ 1161 ㅟ
- 327B ㉵ CIRCLED HANGUL HIEUH A  
≈ <circle> 1112 ㅎ 1161 ㅛ

**Circled Korean words**

- 327C ㉶ CIRCLED KOREAN CHARACTER CHAMKO  
≈ <circle> 110E ㅈ 1161 ㅏ 11B7 ㅁ 1100 ㅏ  
1169 ㅏ
- 327D ㉷ CIRCLED KOREAN CHARACTER JUEUI  
≈ <circle> 110C ㅈ 116E ㅏ 110B ㅇ 1174 ㅏ

**Circled Hangul syllable**

- 327E ㉸ CIRCLED HANGUL IEUNG U  
• postal code mark  
≈ <circle> 110B ㅇ 116E ㅏ

**Symbol**

- 327F ㉹ KOREAN STANDARD SYMBOL

**Circled ideographs**

- 3280 ㉺ CIRCLED IDEOGRAPH ONE  
= maru-iti, symbol of unification  
≈ <circle> 4E00 一
- 3281 ㉻ CIRCLED IDEOGRAPH TWO  
≈ <circle> 4E8C 二
- 3282 ㉼ CIRCLED IDEOGRAPH THREE  
≈ <circle> 4E09 三
- 3283 ㉽ CIRCLED IDEOGRAPH FOUR  
≈ <circle> 56DB 四
- 3284 ㉾ CIRCLED IDEOGRAPH FIVE  
≈ <circle> 4E94 五
- 3285 ㉿ CIRCLED IDEOGRAPH SIX  
≈ <circle> 516D 六
- 3286 ㊀ CIRCLED IDEOGRAPH SEVEN  
≈ <circle> 4E03 七
- 3287 ㊁ CIRCLED IDEOGRAPH EIGHT  
≈ <circle> 516B 八
- 3288 ㊂ CIRCLED IDEOGRAPH NINE  
≈ <circle> 4E5D 九
- 3289 ㊃ CIRCLED IDEOGRAPH TEN  
≈ <circle> 5341 十
- 328A ㊄ CIRCLED IDEOGRAPH MOON  
• Monday  
≈ <circle> 6708 月
- 328B ㊅ CIRCLED IDEOGRAPH FIRE  
• Tuesday  
≈ <circle> 706B 火
- 328C ㊆ CIRCLED IDEOGRAPH WATER  
• Wednesday  
≈ <circle> 6C34 水
- 328D ㊇ CIRCLED IDEOGRAPH WOOD  
• Thursday  
≈ <circle> 6728 木
- 328E ㊈ CIRCLED IDEOGRAPH METAL  
• Friday  
≈ <circle> 91D1 金
- 328F ㊉ CIRCLED IDEOGRAPH EARTH  
• Saturday  
≈ <circle> 571F 土
- 3290 ㊊ CIRCLED IDEOGRAPH SUN  
• Sunday  
≈ <circle> 65E5 日
- 3291 ㊋ CIRCLED IDEOGRAPH STOCK  
• incorporated  
≈ <circle> 682A 株
- 3292 ㊌ CIRCLED IDEOGRAPH HAVE  
• limited  
≈ <circle> 6709 有
- 3293 ㊍ CIRCLED IDEOGRAPH SOCIETY  
• company  
≈ <circle> 793E 社
- 3294 ㊎ CIRCLED IDEOGRAPH NAME  
≈ <circle> 540D 名

3295	特	CIRCLED IDEOGRAPH SPECIAL ≈ <circle> 7279 特
3296	財	CIRCLED IDEOGRAPH FINANCIAL ≈ <circle> 8CA1 財
3297	祝	CIRCLED IDEOGRAPH CONGRATULATION ≈ <circle> 795D 祝
3298	勞	CIRCLED IDEOGRAPH LABOR ≈ <circle> 52B4 勞
3299	秘	CIRCLED IDEOGRAPH SECRET ≈ <circle> 79D8 秘
329A	男	CIRCLED IDEOGRAPH MALE ≈ <circle> 7537 男
329B	女	CIRCLED IDEOGRAPH FEMALE ≈ <circle> 5973 女
329C	適	CIRCLED IDEOGRAPH SUITABLE ≈ <circle> 9069 適
329D	優	CIRCLED IDEOGRAPH EXCELLENT ≈ <circle> 512A 優
329E	印	CIRCLED IDEOGRAPH PRINT • name seal ≈ <circle> 5370 印
329F	注	CIRCLED IDEOGRAPH ATTENTION ≈ <circle> 6CE8 注
32A0	項	CIRCLED IDEOGRAPH ITEM ≈ <circle> 9805 項
32A1	休	CIRCLED IDEOGRAPH REST • holiday ≈ <circle> 4F11 休
32A2	写	CIRCLED IDEOGRAPH COPY ≈ <circle> 5199 写
32A3	正	CIRCLED IDEOGRAPH CORRECT ≈ <circle> 6B63 正
32A4	上	CIRCLED IDEOGRAPH HIGH ≈ <circle> 4E0A 上
32A5	中	CIRCLED IDEOGRAPH CENTRE ≈ <circle> 4E2D 中
32A6	下	CIRCLED IDEOGRAPH LOW ≈ <circle> 4E0B 下
32A7	左	CIRCLED IDEOGRAPH LEFT ≈ <circle> 5DE6 左
32A8	右	CIRCLED IDEOGRAPH RIGHT ≈ <circle> 53F3 右
32A9	医	CIRCLED IDEOGRAPH MEDICINE ≈ <circle> 533B 医
32AA	宗	CIRCLED IDEOGRAPH RELIGION ≈ <circle> 5B97 宗
32AB	学	CIRCLED IDEOGRAPH STUDY ≈ <circle> 5B66 学
32AC	監	CIRCLED IDEOGRAPH SUPERVISE ≈ <circle> 76E3 監
32AD	企	CIRCLED IDEOGRAPH ENTERPRISE ≈ <circle> 4F01 企
32AE	資	CIRCLED IDEOGRAPH RESOURCE ≈ <circle> 8CC7 資
32AF	協	CIRCLED IDEOGRAPH ALLIANCE ≈ <circle> 5354 協

32B0	夜	CIRCLED IDEOGRAPH NIGHT ≈ <circle> 591C 夜
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**Circled numbers**

32B1	36	CIRCLED NUMBER THIRTY SIX ≈ <circle> 0033 3 0036 6
32B2	37	CIRCLED NUMBER THIRTY SEVEN ≈ <circle> 0033 3 0037 7
32B3	38	CIRCLED NUMBER THIRTY EIGHT ≈ <circle> 0033 3 0038 8
32B4	39	CIRCLED NUMBER THIRTY NINE ≈ <circle> 0033 3 0039 9
32B5	40	CIRCLED NUMBER FORTY ≈ <circle> 0034 4 0030 0
32B6	41	CIRCLED NUMBER FORTY ONE ≈ <circle> 0034 4 0031 1
32B7	42	CIRCLED NUMBER FORTY TWO ≈ <circle> 0034 4 0032 2
32B8	43	CIRCLED NUMBER FORTY THREE ≈ <circle> 0034 4 0033 3
32B9	44	CIRCLED NUMBER FORTY FOUR ≈ <circle> 0034 4 0034 4
32BA	45	CIRCLED NUMBER FORTY FIVE ≈ <circle> 0034 4 0035 5
32BB	46	CIRCLED NUMBER FORTY SIX ≈ <circle> 0034 4 0036 6
32BC	47	CIRCLED NUMBER FORTY SEVEN ≈ <circle> 0034 4 0037 7
32BD	48	CIRCLED NUMBER FORTY EIGHT ≈ <circle> 0034 4 0038 8
32BE	49	CIRCLED NUMBER FORTY NINE ≈ <circle> 0034 4 0039 9
32BF	50	CIRCLED NUMBER FIFTY ≈ <circle> 0035 5 0030 0

**Telegraph symbols for months**

32C0	1月	IDEOGRAPHIC TELEGRAPH SYMBOL FOR JANUARY ≈ 0031 1 6708 月
32C1	2月	IDEOGRAPHIC TELEGRAPH SYMBOL FOR FEBRUARY ≈ 0032 2 6708 月
32C2	3月	IDEOGRAPHIC TELEGRAPH SYMBOL FOR MARCH ≈ 0033 3 6708 月
32C3	4月	IDEOGRAPHIC TELEGRAPH SYMBOL FOR APRIL ≈ 0034 4 6708 月
32C4	5月	IDEOGRAPHIC TELEGRAPH SYMBOL FOR MAY ≈ 0035 5 6708 月
32C5	6月	IDEOGRAPHIC TELEGRAPH SYMBOL FOR JUNE ≈ 0036 6 6708 月
32C6	7月	IDEOGRAPHIC TELEGRAPH SYMBOL FOR JULY ≈ 0037 7 6708 月
32C7	8月	IDEOGRAPHIC TELEGRAPH SYMBOL FOR AUGUST ≈ 0038 8 6708 月
32C8	9月	IDEOGRAPHIC TELEGRAPH SYMBOL FOR SEPTEMBER ≈ 0039 9 6708 月

32C9 10月 IDEOGRAPHIC TELEGRAPH SYMBOL FOR OCTOBER  
 ≈ 0031 1 0030 0 6708 月  
 32CA 11月 IDEOGRAPHIC TELEGRAPH SYMBOL FOR NOVEMBER  
 ≈ 0031 1 0031 1 6708 月  
 32CB 12月 IDEOGRAPHIC TELEGRAPH SYMBOL FOR DECEMBER  
 ≈ 0031 1 0032 2 6708 月

**Squared Latin abbreviations**

32CC Hg SQUARE HG  
 ≈ <square> 0048 H 0067 g  
 32CD erg SQUARE ERG  
 ≈ <square> 0065 e 0072 r 0067 g  
 32CE eV SQUARE EV  
 ≈ <square> 0065 e 0056 V  
 32CF LTD LIMITED LIABILITY SIGN  
 ≈ <square> 004C L 0054 T 0044 D

**Circled Katakana**

32D0 ㊦ CIRCLED KATAKANA A  
 ≈ <circle> 30A2 ア  
 32D1 ㊦ CIRCLED KATAKANA I  
 ≈ <circle> 30A4 イ  
 32D2 ㊦ CIRCLED KATAKANA U  
 ≈ <circle> 30A6 ウ  
 32D3 ㊦ CIRCLED KATAKANA E  
 ≈ <circle> 30A8 エ  
 32D4 ㊦ CIRCLED KATAKANA O  
 ≈ <circle> 30AA オ  
 32D5 ㊦ CIRCLED KATAKANA KA  
 ≈ <circle> 30AB カ  
 32D6 ㊦ CIRCLED KATAKANA KI  
 ≈ <circle> 30AD キ  
 32D7 ㊦ CIRCLED KATAKANA KU  
 ≈ <circle> 30AF ク  
 32D8 ㊦ CIRCLED KATAKANA KE  
 ≈ <circle> 30B1 ケ  
 32D9 ㊦ CIRCLED KATAKANA KO  
 ≈ <circle> 30B3 コ  
 32DA ㊦ CIRCLED KATAKANA SA  
 ≈ <circle> 30B5 サ  
 32DB ㊦ CIRCLED KATAKANA SI  
 ≈ <circle> 30B7 シ  
 32DC ㊦ CIRCLED KATAKANA SU  
 ≈ <circle> 30B9 ス  
 32DD ㊦ CIRCLED KATAKANA SE  
 ≈ <circle> 30BB セ  
 32DE ㊦ CIRCLED KATAKANA SO  
 ≈ <circle> 30BD ソ  
 32DF ㊦ CIRCLED KATAKANA TA  
 ≈ <circle> 30BF タ  
 32E0 ㊦ CIRCLED KATAKANA TI  
 ≈ <circle> 30C1 チ  
 32E1 ㊦ CIRCLED KATAKANA TU  
 ≈ <circle> 30C4 ツ  
 32E2 ㊦ CIRCLED KATAKANA TE  
 ≈ <circle> 30C6 テ

32E3 ㊦ CIRCLED KATAKANA TO  
 ≈ <circle> 30C8 ト  
 32E4 ㊦ CIRCLED KATAKANA NA  
 ≈ <circle> 30CA ナ  
 32E5 ㊦ CIRCLED KATAKANA NI  
 ≈ <circle> 30CB ニ  
 32E6 ㊦ CIRCLED KATAKANA NU  
 ≈ <circle> 30CC ヌ  
 32E7 ㊦ CIRCLED KATAKANA NE  
 ≈ <circle> 30CD ネ  
 32E8 ㊦ CIRCLED KATAKANA NO  
 ≈ <circle> 30CE ノ  
 32E9 ㊦ CIRCLED KATAKANA HA  
 ≈ <circle> 30CF ハ  
 32EA ㊦ CIRCLED KATAKANA HI  
 ≈ <circle> 30D2 ヒ  
 32EB ㊦ CIRCLED KATAKANA HU  
 ≈ <circle> 30D5 フ  
 32EC ㊦ CIRCLED KATAKANA HE  
 ≈ <circle> 30D8 ヘ  
 32ED ㊦ CIRCLED KATAKANA HO  
 ≈ <circle> 30DB ホ  
 32EE ㊦ CIRCLED KATAKANA MA  
 ≈ <circle> 30DE マ  
 32EF ㊦ CIRCLED KATAKANA MI  
 ≈ <circle> 30DF ミ  
 32F0 ㊦ CIRCLED KATAKANA MU  
 ≈ <circle> 30E0 ム  
 32F1 ㊦ CIRCLED KATAKANA ME  
 ≈ <circle> 30E1 メ  
 32F2 ㊦ CIRCLED KATAKANA MO  
 ≈ <circle> 30E2 モ  
 32F3 ㊦ CIRCLED KATAKANA YA  
 ≈ <circle> 30E4 ヤ  
 32F4 ㊦ CIRCLED KATAKANA YU  
 ≈ <circle> 30E6 ユ  
 32F5 ㊦ CIRCLED KATAKANA YO  
 ≈ <circle> 30E8 ヨ  
 32F6 ㊦ CIRCLED KATAKANA RA  
 ≈ <circle> 30E9 ラ  
 32F7 ㊦ CIRCLED KATAKANA RI  
 ≈ <circle> 30EA リ  
 32F8 ㊦ CIRCLED KATAKANA RU  
 ≈ <circle> 30EB ル  
 32F9 ㊦ CIRCLED KATAKANA RE  
 ≈ <circle> 30EC レ  
 32FA ㊦ CIRCLED KATAKANA RO  
 ≈ <circle> 30ED ロ  
 32FB ㊦ CIRCLED KATAKANA WA  
 ≈ <circle> 30EF ワ  
 32FC ㊦ CIRCLED KATAKANA WI  
 ≈ <circle> 30F0 ヰ  
 32FD ㊦ CIRCLED KATAKANA WE  
 ≈ <circle> 30F1 ヱ  
 32FE ㊦ CIRCLED KATAKANA WO  
 ≈ <circle> 30F2 ヲ

	330	331	332	333	334	335	336	337	338	339	33A	33B	33C	33D	33E	33F
0	アパート 3300	ギガ 3310	サンチーム 3320	ピコ 3330	ボン 3340	ユア 3350	8点 3360	24点 3370	pA 3380	Hz 3390	cm <sup>2</sup> 33A0	ps 33B0	kΩ 33C0	lm 33D0	1日 33E0	17日 33F0
1	アルファ 3301	ギニー 3311	シリ 3321	ビル 3331	ホル 3341	リッ 3351	9点 3361	hPa 3371	nA 3381	kHz 3391	m <sup>2</sup> 33A1	ns 33B1	MΩ 33C1	ln 33D1	2日 33E1	18日 33F1
2	アンペア 3302	キュー 3312	セン 3322	ファ 3332	ホー 3342	リ 3352	10点 3362	da 3372	μA 3382	MHz 3392	km <sup>2</sup> 33A2	μs 33B2	a.m. 33C2	log 33D2	3日 33E2	19日 33F2
3	アール 3303	ギル 3313	セン 3323	フィ 3333	マイ 3343	ルピ 3353	11点 3363	AU 3373	mA 3383	GHz 3393	mm <sup>3</sup> 33A3	ms 33B3	Bq 33C3	lx 33D3	4日 33E3	20日 33F3
4	イン 3304	キ 3314	ダー 3324	ブッ 3334	マイ 3344	ルー 3354	12点 3364	bar 3374	kA 3384	THz 3394	cm <sup>3</sup> 33A4	pV 33B4	cc 33C4	mb 33D4	5日 33E4	21日 33F4
5	イン 3305	キロ 3315	デ 3325	フラ 3335	マッ 3345	レ 3355	13点 3365	oV 3375	KB 3385	μℓ 3395	m <sup>3</sup> 33A5	nV 33B5	cd 33C5	mil 33D5	6日 33E5	22日 33F5
6	ウオ 3306	キロ 3316	ドル 3326	ヘク 3336	マル 3346	レン 3356	14点 3366	pc 3376	MB 3386	mℓ 3396	km <sup>3</sup> 33A6	μV 33B6	C/kg 33C6	mol 33D6	7日 33E6	23日 33F6
7	エス 3307	キロ 3317	トン 3327	ペ 3337	マン 3347	ワッ 3357	15点 3367	dm 3377	GB 3387	dℓ 3397	m/s 33A7	mV 33B7	Co. 33C7	pH 33D7	8日 33E7	24日 33F7
8	エー 3308	グラ 3318	ナ 3328	ペニ 3338	ミク 3348	ロン 3358	0点 3368	16点 3378	dm <sup>2</sup> 3388	cal 3398	kℓ 33A8	m/s <sup>2</sup> 33B8	kV 33C8	dB 33D8	p.m. 33E8	9日 33F8
9	オン 3309	グラ 3319	ノッ 3329	ヘル 3339	ミ 3349	リ 3359	1点 3369	17点 3379	dm <sup>3</sup> 3389	kcal 3399	fm 33A9	Pa 33B9	MV 33C9	Gy 33D9	PPM 33E9	10日 33F9
A	オー 330A	クル 331A	ハイ 332A	ペン 333A	ミ 334A	リ 335A	2点 336A	18点 337A	IU 338A	pF 339A	nm 33A0	kPa 33B0	pW 33C0	ha 33D0	PR 33E0	11日 33F0
B	カイ 330B	クロ 331B	パー 332B	ペー 333B	メ 334B	ガ 335B	3点 336B	19点 337B	平成 338B	nF 339B	μm 33A0	MPa 33B0	nW 33C0	IP 33D0	sr 33E0	12日 33F0
C	カラ 330C	ケー 331C	パー 332C	ベ 333C	メ 334C	ガ 335C	4点 336C	20点 337C	昭和 338C	μF 339C	mm 33A0	GPa 33B0	μW 33C0	in 33D0	Sv 33E0	13日 33F0
D	カロ 330D	コ 331D	バー 332D	ポ 333D	メ 334D	ール 335D	5点 336D	21点 337D	大正 338D	μg 339D	cm 33A0	rad 33B0	mW 33C0	K.K. 33D0	Wb 33E0	14日 33F0
E	ガ 330E	コー 331E	ピア 332E	ボル 333E	ヤ 334E	ード 335E	6点 336E	22点 337E	明治 338E	mg 339E	km 33A0	rad/s 33B0	kW 33C0	KM 33D0	Y/m 33E0	15日 33F0
F	ガン 330F	サイ 331F	ピク 332F	ホ 333F	ヤ 334F	ール 335F	7点 336F	23点 337F	株式 338F	kg 339F	mm <sup>2</sup> 33A0	rad/s <sup>2</sup> 33B0	MW 33C0	kt 33D0	Y/m 33E0	16日 33F0

**Squared Katakana words**

3300	アバ ニト	<b>SQUARE APAATO</b> • apartment ≈ <square> 30A2 ア 30D1 パ 30FC ー 30C8 ト
3301	アル ファ	<b>SQUARE ARUHUA</b> • alpha ≈ <square> 30A2 ア 30EB ル 30D5 フ 30A1 ア
3302	アン ペア	<b>SQUARE ANPEA</b> • ampere ≈ <square> 30A2 ア 30F3 ン 30DA ペ 30A2 ア
3303	アール	<b>SQUARE AARU</b> • are (unit of area) ≈ <square> 30A2 ア 30FC ー 30EB ル
3304	イン シテ	<b>SQUARE ININGU</b> • inning ≈ <square> 30A4 イ 30CB ニ 30F3 ン 30B0 グ
3305	イン チ	<b>SQUARE INTI</b> • inch ≈ <square> 30A4 イ 30F3 ン 30C1 チ
3306	ウォ ン	<b>SQUARE UON</b> • won (Korean currency) ≈ <square> 30A6 ウ 30A9 オ 30F3 ン
3307	エス クード	<b>SQUARE ESUKUUDO</b> • escudo (Portuguese currency) ≈ <square> 30A8 エ 30B9 ス 30AF ク 30FC ー 30C9 ト
3308	エー カー	<b>SQUARE EEKAA</b> • acre ≈ <square> 30A8 エ 30FC ー 30AB カ 30FC ー
3309	オン ス	<b>SQUARE ONSU</b> • ounce ≈ <square> 30AA オ 30F3 ン 30B9 ス
330A	オー ム	<b>SQUARE OOMU</b> • ohm ≈ <square> 30AA オ 30FC ー 30E0 ム
330B	カイ リ	<b>SQUARE KAIRI</b> • kai-ri: nautical mile ≈ <square> 30AB カ 30A4 イ 30EA リ
330C	カラ ット	<b>SQUARE KARATTO</b> • carat ≈ <square> 30AB カ 30E9 ラ 30C3 ツ 30C8 ト
330D	カロ リー	<b>SQUARE KARORII</b> • calorie ≈ <square> 30AB カ 30ED ロ 30EA リ 30FC ー
330E	ガロ ン	<b>SQUARE GARON</b> • gallon ≈ <square> 30AC ガ 30ED ロ 30F3 ン
330F	ガン マ	<b>SQUARE GANMA</b> • gamma ≈ <square> 30AC ガ 30F3 ン 30DE マ
3310	ギガ	<b>SQUARE GIGA</b> • giga- ≈ <square> 30AE ギ 30AC ガ
3311	ギニ	<b>SQUARE GINII</b> • guinea ≈ <square> 30AE ギ 30CB ニ 30FC ー

3312	キュ リ	<b>SQUARE KYURII</b> • curie ≈ <square> 30AD キ 30E5 ュ 30EA リ 30FC ー
3313	ギル ダ	<b>SQUARE GIRUDAA</b> • guilder ≈ <square> 30AE ギ 30EB ル 30C0 ダ 30FC ー
3314	キロ	<b>SQUARE KIRO</b> • kilo- ≈ <square> 30AD キ 30ED ロ
3315	キログ ラム	<b>SQUARE KIROGURAMU</b> • kilogram ≈ <square> 30AD キ 30ED ロ 30B0 グ 30E9 ラ 30E0 ム
3316	キロメ ートル	<b>SQUARE KIROMEETORU</b> • kilometer ≈ <square> 30AD キ 30ED ロ 30E1 メ 30FC ー 30C8 ト 30EB ル
3317	キロ ワット	<b>SQUARE KIROWATTO</b> • kilowatt ≈ <square> 30AD キ 30ED ロ 30EF ワ 30C3 ツ 30C8 ト
3318	グラ ム	<b>SQUARE GURAMU</b> • gram ≈ <square> 30B0 グ 30E9 ラ 30E0 ム
3319	グラ ムトン	<b>SQUARE GURAMUTON</b> • gram ton ≈ <square> 30B0 グ 30E9 ラ 30E0 ム 30C8 ト 30F3 ン
331A	クル ゼイロ	<b>SQUARE KURUZEIRO</b> • cruzeiro (Brazilian currency) ≈ <square> 30AF ク 30EB ル 30BC ゼ 30A4 イ 30ED ロ
331B	クロ ネ	<b>SQUARE KUROONE</b> • krone ≈ <square> 30AF ク 30ED ロ 30FC ー 30CD ネ
331C	ケー ス	<b>SQUARE KEESU</b> • case ≈ <square> 30B1 ケ 30FC ー 30B9 ス
331D	コル ナ	<b>SQUARE KORUNA</b> • koruna (Czech currency) ≈ <square> 30B3 コ 30EB ル 30CA ナ
331E	コー ポ	<b>SQUARE KOOPO</b> • co-op ≈ <square> 30B3 コ 30FC ー 30DD ポ
331F	サイ クル	<b>SQUARE SAIKURU</b> • cycle ≈ <square> 30B5 サ 30A4 イ 30AF ク 30EB ル
3320	サン チム	<b>SQUARE SANTIIMU</b> • centime ≈ <square> 30B5 サ 30F3 ン 30C1 チ 30FC ー 30E0 ム
3321	シリ ンゲ	<b>SQUARE SIRINGU</b> • shilling ≈ <square> 30B7 シ 30EA リ 30F3 ン 30B0 グ
3322	セン チ	<b>SQUARE SENTI</b> • centi- ≈ <square> 30BB セ 30F3 ン 30C1 チ



3323	セン ト	<b>SQUARE SENTO</b> • cent ≈<square> 30BB セ 30F3 ン 30C8 ト
3324	ダース	<b>SQUARE DAASU</b> • dozen ≈<square> 30C0 ダ 30FC ー 30B9 ス
3325	デシ	<b>SQUARE DESI</b> • deci- ≈<square> 30C7 デ 30B7 シ
3326	ドル	<b>SQUARE DORU</b> • dollar ≈<square> 30C9 ド 30EB ル
3327	トン	<b>SQUARE TON</b> • ton ≈<square> 30C8 ト 30F3 ン
3328	ナノ	<b>SQUARE NANO</b> • nano- ≈<square> 30CA ナ 30CE ノ
3329	ノット	<b>SQUARE NOTTO</b> • knot, nautical mile ≈<square> 30CE ノ 30C3 ツ 30C8 ト
332A	ハイ ツ	<b>SQUARE HAITU</b> • heights ≈<square> 30CF ハ 30A4 イ 30C4 ツ
332B	パー セント	<b>SQUARE PAASENTO</b> • percent ≈<square> 30D1 パ 30FC ー 30BB セ 30F3 ン 30C8 ト
332C	パート	<b>SQUARE PAATU</b> • parts ≈<square> 30D1 パ 30FC ー 30C4 ツ
332D	バレル	<b>SQUARE BAARERU</b> • barrel ≈<square> 30D0 バ 30FC ー 30EC レ 30EB ル
332E	ピア ストル	<b>SQUARE PIASUTORU</b> • piaster ≈<square> 30D4 ピ 30A2 ア 30B9 ス 30C8 ト 30EB ル
332F	ピクル	<b>SQUARE PIKURU</b> • picul (unit of weight) ≈<square> 30D4 ピ 30AF ク 30EB ル
3330	ピコ	<b>SQUARE PIKO</b> • pico- ≈<square> 30D4 ピ 30B3 コ
3331	ビル	<b>SQUARE BIRU</b> • building ≈<square> 30D3 ビ 30EB ル
3332	ファ ラッド	<b>SQUARE HUARADDO</b> • farad ≈<square> 30D5 フ 30A1 ア 30E9 ラ 30C3 ツ 30C9 ト
3333	フィ ット	<b>SQUARE HUIITO</b> • feet ≈<square> 30D5 フ 30A3 イ 30FC ー 30C8 ト
3334	ブッシュ	<b>SQUARE BUSSYERU</b> • bushel ≈<square> 30D6 ブ 30C3 ツ 30B7 シ 30A7 エ 30EB ル

3335	フラン	<b>SQUARE HURAN</b> • franc ≈<square> 30D5 フ 30E9 ラ 30F3 ン
3336	ヘクタール	<b>SQUARE HEKUTAARU</b> • hectare ≈<square> 30D8 ヘ 30AF ク 30BF タ 30FC ー 30EB ル
3337	ペソ	<b>SQUARE PESO</b> • peso ≈<square> 30DA ペ 30BD ソ
3338	ペニ ヒ	<b>SQUARE PENIHI</b> • pfennig ≈<square> 30DA ペ 30CB ニ 30D2 ヒ
3339	ヘルツ	<b>SQUARE HERUTU</b> • hertz ≈<square> 30D8 ヘ 30EB ル 30C4 ツ
333A	ペン ス	<b>SQUARE PENSU</b> • pence ≈<square> 30DA ペ 30F3 ン 30B9 ス
333B	ページ	<b>SQUARE PEEZI</b> • page ≈<square> 30DA ペ 30FC ー 30B8 ジ
333C	ベータ	<b>SQUARE BEETA</b> • beta ≈<square> 30D9 ベ 30FC ー 30BF タ
333D	ポイント	<b>SQUARE POINTO</b> • point ≈<square> 30DD ポ 30A4 イ 30F3 ン 30C8 ト
333E	ボルト	<b>SQUARE BORUTO</b> • volt, bolt ≈<square> 30DC ボ 30EB ル 30C8 ト
333F	ホン	<b>SQUARE HON</b> • hon: volume ≈<square> 30DB ホ 30F3 ン
3340	ポンド	<b>SQUARE PONDO</b> • pound ≈<square> 30DD ポ 30F3 ン 30C9 ト
3341	ホール	<b>SQUARE HOORU</b> • hall ≈<square> 30DB ホ 30FC ー 30EB ル
3342	ホーン	<b>SQUARE HOON</b> • horn ≈<square> 30DB ホ 30FC ー 30F3 ン
3343	マイクロ	<b>SQUARE MAIKURO</b> • micro- ≈<square> 30DE マ 30A4 イ 30AF ク 30ED ロ
3344	マイル	<b>SQUARE MAIRU</b> • mile ≈<square> 30DE マ 30A4 イ 30EB ル
3345	マッ ハ	<b>SQUARE MAHHA</b> • mach ≈<square> 30DE マ 30C3 ツ 30CF ハ
3346	マルク	<b>SQUARE MARUKU</b> • mark ≈<square> 30DE マ 30EB ル 30AF ク

3347	マン ション	<b>SQUARE MANSYON</b> • mansion (i.e. better quality apartment) ≈ <square> 30DE マ 30F3 シ 30B7 シ 30E7 ヨ 30F3 シ
3348	ミク ロン	<b>SQUARE MIKURON</b> • micron ≈ <square> 30DF ミ 30AF ク 30ED ロ 30F3 シ
3349	ミリ	<b>SQUARE MIRI</b> • milli- ≈ <square> 30DF ミ 30EA リ
334A	ミリ バール	<b>SQUARE MIRIBAARU</b> • millibar ≈ <square> 30DF ミ 30EA リ 30D0 バ 30FC ー 30EB ル
334B	メガ	<b>SQUARE MEGA</b> • mega- ≈ <square> 30E1 メ 30AC ガ
334C	メガ トン	<b>SQUARE MEGATON</b> • megaton ≈ <square> 30E1 メ 30AC ガ 30C8 ト 30F3 シ
334D	メー トル	<b>SQUARE MEETORU</b> • meter ≈ <square> 30E1 メ 30FC ー 30C8 ト 30EB ル
334E	ヤード	<b>SQUARE YAADO</b> • yard ≈ <square> 30E4 ヤ 30FC ー 30C9 ド
334F	ヤード	<b>SQUARE YAARU</b> • yard ≈ <square> 30E4 ヤ 30FC ー 30EB ル
3350	ユアン	<b>SQUARE YUAN</b> • yuan (Chinese currency) ≈ <square> 30E6 ユ 30A2 ア 30F3 シ
3351	リットル	<b>SQUARE RITTORU</b> • liter ≈ <square> 30EA リ 30C3 ツ 30C8 ト 30EB ル
3352	リラ	<b>SQUARE RIRA</b> • lira ≈ <square> 30EA リ 30E9 ラ
3353	ルピー	<b>SQUARE RUPII</b> • rupee ≈ <square> 30EB ル 30D4 ヒ 30FC ー
3354	ルーブル	<b>SQUARE RUUBURU</b> • ruble ≈ <square> 30EB ル 30FC ー 30D6 ブ 30EB ル
3355	レム	<b>SQUARE REMU</b> • rem (unit of radiation) ≈ <square> 30EC レ 30E0 ム
3356	レントゲン	<b>SQUARE RENTOGEN</b> • roentgen ≈ <square> 30EC レ 30F3 シ 30C8 ト 30B2 ゲ 30F3 シ
3357	ワット	<b>SQUARE WATTO</b> • watt ≈ <square> 30EF ワ 30C3 ツ 30C8 ト

**Telegraph symbols for hours**

3358	0点	<b>IDEOGRAPHIC TELEGRAPH SYMBOL FOR HOUR ZERO</b> ≈ 0030 0 70B9 点
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3359	1点	<b>IDEOGRAPHIC TELEGRAPH SYMBOL FOR HOUR ONE</b> ≈ 0031 1 70B9 点
335A	2点	<b>IDEOGRAPHIC TELEGRAPH SYMBOL FOR HOUR TWO</b> ≈ 0032 2 70B9 点
335B	3点	<b>IDEOGRAPHIC TELEGRAPH SYMBOL FOR HOUR THREE</b> ≈ 0033 3 70B9 点
335C	4点	<b>IDEOGRAPHIC TELEGRAPH SYMBOL FOR HOUR FOUR</b> ≈ 0034 4 70B9 点
335D	5点	<b>IDEOGRAPHIC TELEGRAPH SYMBOL FOR HOUR FIVE</b> ≈ 0035 5 70B9 点
335E	6点	<b>IDEOGRAPHIC TELEGRAPH SYMBOL FOR HOUR SIX</b> ≈ 0036 6 70B9 点
335F	7点	<b>IDEOGRAPHIC TELEGRAPH SYMBOL FOR HOUR SEVEN</b> ≈ 0037 7 70B9 点
3360	8点	<b>IDEOGRAPHIC TELEGRAPH SYMBOL FOR HOUR EIGHT</b> ≈ 0038 8 70B9 点
3361	9点	<b>IDEOGRAPHIC TELEGRAPH SYMBOL FOR HOUR NINE</b> ≈ 0039 9 70B9 点
3362	10点	<b>IDEOGRAPHIC TELEGRAPH SYMBOL FOR HOUR TEN</b> ≈ 0031 1 0030 0 70B9 点
3363	11点	<b>IDEOGRAPHIC TELEGRAPH SYMBOL FOR HOUR ELEVEN</b> ≈ 0031 1 0031 1 70B9 点
3364	12点	<b>IDEOGRAPHIC TELEGRAPH SYMBOL FOR HOUR TWELVE</b> ≈ 0031 1 0032 2 70B9 点
3365	13点	<b>IDEOGRAPHIC TELEGRAPH SYMBOL FOR HOUR THIRTEEN</b> ≈ 0031 1 0033 3 70B9 点
3366	14点	<b>IDEOGRAPHIC TELEGRAPH SYMBOL FOR HOUR FOURTEEN</b> ≈ 0031 1 0034 4 70B9 点
3367	15点	<b>IDEOGRAPHIC TELEGRAPH SYMBOL FOR HOUR FIFTEEN</b> ≈ 0031 1 0035 5 70B9 点
3368	16点	<b>IDEOGRAPHIC TELEGRAPH SYMBOL FOR HOUR SIXTEEN</b> ≈ 0031 1 0036 6 70B9 点
3369	17点	<b>IDEOGRAPHIC TELEGRAPH SYMBOL FOR HOUR SEVENTEEN</b> ≈ 0031 1 0037 7 70B9 点
336A	18点	<b>IDEOGRAPHIC TELEGRAPH SYMBOL FOR HOUR EIGHTEEN</b> ≈ 0031 1 0038 8 70B9 点
336B	19点	<b>IDEOGRAPHIC TELEGRAPH SYMBOL FOR HOUR NINETEEN</b> ≈ 0031 1 0039 9 70B9 点
336C	20点	<b>IDEOGRAPHIC TELEGRAPH SYMBOL FOR HOUR TWENTY</b> ≈ 0032 2 0030 0 70B9 点

- 336D 21点 IDEOGRAPHIC TELEGRAPH SYMBOL FOR HOUR TWENTY-ONE  
 $\approx$  0032 2 0031 1 70B9 点
- 336E 22点 IDEOGRAPHIC TELEGRAPH SYMBOL FOR HOUR TWENTY-TWO  
 $\approx$  0032 2 0032 2 70B9 点
- 336F 23点 IDEOGRAPHIC TELEGRAPH SYMBOL FOR HOUR TWENTY-THREE  
 $\approx$  0032 2 0033 3 70B9 点
- 3370 24点 IDEOGRAPHIC TELEGRAPH SYMBOL FOR HOUR TWENTY-FOUR  
 $\approx$  0032 2 0034 4 70B9 点

**Squared Latin abbreviations**

- 3371 hPa SQUARE HPA  
 $\approx$  <square> 0068 h 0050 P 0061 a
- 3372 da SQUARE DA  
 $\approx$  <square> 0064 d 0061 a
- 3373 AU SQUARE AU  
 $\approx$  <square> 0041 A 0055 U
- 3374 bar SQUARE BAR  
 $\approx$  <square> 0062 b 0061 a 0072 r
- 3375 oV SQUARE OV  
 $\approx$  <square> 006F o 0056 V
- 3376 pc SQUARE PC  
 $\approx$  <square> 0070 p 0063 c
- 3377 dm SQUARE DM  
 $\approx$  <square> 0064 d 006D m
- 3378 dm<sup>2</sup> SQUARE DM SQUARED  
 $\approx$  <square> 0064 d 006D m 00B2 <sup>2</sup>
- 3379 dm<sup>3</sup> SQUARE DM CUBED  
 $\approx$  <square> 0064 d 006D m 00B3 <sup>3</sup>
- 337A IU SQUARE IU  
 $\approx$  <square> 0049 I 0055 U

**Japanese era names**

- 337B 平成 SQUARE ERA NAME HEISEI  
 $\approx$  <square> 5E73 平 6210 成
- 337C 昭和 SQUARE ERA NAME SYOUWA  
 $\approx$  <square> 662D 昭 548C 和
- 337D 大正 SQUARE ERA NAME TAISYOU  
 $\approx$  <square> 5927 大 6B63 正
- 337E 明治 SQUARE ERA NAME MEIZI  
 $\approx$  <square> 660E 明 6CBB 治

**Japanese corporation**

- 337F 株式会社 SQUARE CORPORATION  
 = kabusiki-gaisya  
 • incorporated  
 $\approx$  <square> 682A 株 5F0F 式 4F1A 会 793E 社

**Squared Latin abbreviations**

- 3380 pA SQUARE PA AMPS  
 $\approx$  <square> 0070 p 0041 A
- 3381 nA SQUARE NA  
 $\approx$  <square> 006E n 0041 A
- 3382  $\mu$ A SQUARE MU A  
 $\approx$  <square> 03BC  $\mu$  0041 A
- 3383 mA SQUARE MA  
 $\approx$  <square> 006D m 0041 A

- 3384 kA SQUARE KA  
 $\approx$  <square> 006B k 0041 A
- 3385 KB SQUARE KB  
 $\approx$  <square> 004B K 0042 B
- 3386 MB SQUARE MB  
 $\approx$  <square> 004D M 0042 B
- 3387 GB SQUARE GB  
 $\approx$  <square> 0047 G 0042 B
- 3388 cal SQUARE CAL  
 $\approx$  <square> 0063 c 0061 a 006C l
- 3389 kcal SQUARE KCAL  
 $\approx$  <square> 006B k 0063 c 0061 a 006C l
- 338A pF SQUARE PF  
 $\approx$  <square> 0070 p 0046 F
- 338B nF SQUARE NF  
 $\approx$  <square> 006E n 0046 F
- 338C  $\mu$ F SQUARE MU F  
 $\approx$  <square> 03BC  $\mu$  0046 F
- 338D  $\mu$ g SQUARE MU G  
 $\approx$  <square> 03BC  $\mu$  0067 g
- 338E mg SQUARE MG  
 $\approx$  <square> 006D m 0067 g
- 338F kg SQUARE KG  
 $\approx$  <square> 006B k 0067 g
- 3390 Hz SQUARE HZ  
 $\approx$  <square> 0048 H 007A z
- 3391 kHz SQUARE KHZ  
 $\approx$  <square> 006B k 0048 H 007A z
- 3392 MHz SQUARE MHZ  
 $\approx$  <square> 004D M 0048 H 007A z
- 3393 GHz SQUARE GHZ  
 $\approx$  <square> 0047 G 0048 H 007A z
- 3394 THz SQUARE THZ  
 $\approx$  <square> 0054 T 0048 H 007A z
- 3395  $\mu$ l SQUARE MU L  
 $\approx$  <square> 03BC  $\mu$  2113 l
- 3396 ml SQUARE ML  
 $\approx$  <square> 006D m 2113 l
- 3397 dl SQUARE DL  
 $\approx$  <square> 0064 d 2113 l
- 3398 kl SQUARE KL  
 $\approx$  <square> 006B k 2113 l
- 3399 fm SQUARE FM  
 $\approx$  <square> 0066 f 006D m
- 339A nm SQUARE NM  
 $\approx$  <square> 006E n 006D m
- 339B  $\mu$ m SQUARE MU M  
 $\approx$  <square> 03BC  $\mu$  006D m
- 339C mm SQUARE MM  
 $\approx$  <square> 006D m 006D m
- 339D cm SQUARE CM  
 $\approx$  <square> 0063 c 006D m
- 339E km SQUARE KM  
 $\approx$  <square> 006B k 006D m
- 339F mm<sup>2</sup> SQUARE MM SQUARED  
 $\approx$  <square> 006D m 006D m 00B2 <sup>2</sup>

33A0	$\text{cm}^2$	SQUARE CM SQUARED $\approx \langle \text{square} \rangle$ 0063 <b>c</b> 006D <b>m</b> 00B2 <sup>2</sup>
33A1	$\text{m}^2$	SQUARE M SQUARED $\approx \langle \text{square} \rangle$ 006D <b>m</b> 00B2 <sup>2</sup>
33A2	$\text{km}^2$	SQUARE KM SQUARED $\approx \langle \text{square} \rangle$ 006B <b>k</b> 006D <b>m</b> 00B2 <sup>2</sup>
33A3	$\text{mm}^3$	SQUARE MM CUBED $\approx \langle \text{square} \rangle$ 006D <b>m</b> 006D <b>m</b> 00B3 <sup>3</sup>
33A4	$\text{cm}^3$	SQUARE CM CUBED $\approx \langle \text{square} \rangle$ 0063 <b>c</b> 006D <b>m</b> 00B3 <sup>3</sup>
33A5	$\text{m}^3$	SQUARE M CUBED $\approx \langle \text{square} \rangle$ 006D <b>m</b> 00B3 <sup>3</sup>
33A6	$\text{km}^3$	SQUARE KM CUBED $\approx \langle \text{square} \rangle$ 006B <b>k</b> 006D <b>m</b> 00B3 <sup>3</sup>
33A7	$\text{m/s}$	SQUARE M OVER S $\approx \langle \text{square} \rangle$ 006D <b>m</b> 2215 / 0073 <b>s</b>
33A8	$\text{m/s}^2$	SQUARE M OVER S SQUARED $\approx \langle \text{square} \rangle$ 006D <b>m</b> 2215 / 0073 <b>s</b> 00B2 <sup>2</sup>
33A9	Pa	SQUARE PA $\approx \langle \text{square} \rangle$ 0050 <b>P</b> 0061 <b>a</b>
33AA	kPa	SQUARE KPA $\approx \langle \text{square} \rangle$ 006B <b>k</b> 0050 <b>P</b> 0061 <b>a</b>
33AB	MPa	SQUARE MPA $\approx \langle \text{square} \rangle$ 004D <b>M</b> 0050 <b>P</b> 0061 <b>a</b>
33AC	GPa	SQUARE GPA $\approx \langle \text{square} \rangle$ 0047 <b>G</b> 0050 <b>P</b> 0061 <b>a</b>
33AD	rad	SQUARE RAD $\approx \langle \text{square} \rangle$ 0072 <b>r</b> 0061 <b>a</b> 0064 <b>d</b>
33AE	$\text{rad/s}$	SQUARE RAD OVER S $\approx \langle \text{square} \rangle$ 0072 <b>r</b> 0061 <b>a</b> 0064 <b>d</b> 2215 / 0073 <b>s</b>
33AF	$\text{rad/s}^2$	SQUARE RAD OVER S SQUARED $\approx \langle \text{square} \rangle$ 0072 <b>r</b> 0061 <b>a</b> 0064 <b>d</b> 2215 / 0073 <b>s</b> 00B2 <sup>2</sup>
33B0	ps	SQUARE PS $\approx \langle \text{square} \rangle$ 0070 <b>p</b> 0073 <b>s</b>
33B1	ns	SQUARE NS $\approx \langle \text{square} \rangle$ 006E <b>n</b> 0073 <b>s</b>
33B2	$\mu\text{s}$	SQUARE MU S $\approx \langle \text{square} \rangle$ 03BC <b><math>\mu</math></b> 0073 <b>s</b>
33B3	ms	SQUARE MS $\approx \langle \text{square} \rangle$ 006D <b>m</b> 0073 <b>s</b>
33B4	pV	SQUARE PV $\approx \langle \text{square} \rangle$ 0070 <b>p</b> 0056 <b>V</b>
33B5	nV	SQUARE NV $\approx \langle \text{square} \rangle$ 006E <b>n</b> 0056 <b>V</b>
33B6	$\mu\text{V}$	SQUARE MU V $\approx \langle \text{square} \rangle$ 03BC <b><math>\mu</math></b> 0056 <b>V</b>
33B7	mV	SQUARE MV $\approx \langle \text{square} \rangle$ 006D <b>m</b> 0056 <b>V</b>
33B8	kV	SQUARE KV $\approx \langle \text{square} \rangle$ 006B <b>k</b> 0056 <b>V</b>
33B9	MV	SQUARE MV MEGA $\approx \langle \text{square} \rangle$ 004D <b>M</b> 0056 <b>V</b>
33BA	pW	SQUARE PW $\approx \langle \text{square} \rangle$ 0070 <b>p</b> 0057 <b>W</b>
33BB	nW	SQUARE NW $\approx \langle \text{square} \rangle$ 006E <b>n</b> 0057 <b>W</b>

33BC	$\mu\text{W}$	SQUARE MU W $\approx \langle \text{square} \rangle$ 03BC <b><math>\mu</math></b> 0057 <b>W</b>
33BD	mW	SQUARE MW $\approx \langle \text{square} \rangle$ 006D <b>m</b> 0057 <b>W</b>
33BE	kW	SQUARE KW $\approx \langle \text{square} \rangle$ 006B <b>k</b> 0057 <b>W</b>
33BF	MW	SQUARE MW MEGA $\approx \langle \text{square} \rangle$ 004D <b>M</b> 0057 <b>W</b>
33C0	k $\Omega$	SQUARE K OHM $\approx \langle \text{square} \rangle$ 006B <b>k</b> 03A9 <b><math>\Omega</math></b>
33C1	M $\Omega$	SQUARE M OHM $\approx \langle \text{square} \rangle$ 004D <b>M</b> 03A9 <b><math>\Omega</math></b>
33C2	a.m.	SQUARE AM $\approx \langle \text{square} \rangle$ 0061 <b>a</b> 002E . 006D <b>m</b> 002E .
33C3	Bq	SQUARE BQ $\approx \langle \text{square} \rangle$ 0042 <b>B</b> 0071 <b>q</b>
33C4	cc	SQUARE CC $\approx \langle \text{square} \rangle$ 0063 <b>c</b> 0063 <b>c</b>
33C5	cd	SQUARE CD $\rightarrow$ 1F12D <b><math>\text{\textcircled{C}}</math></b> circled cd $\approx \langle \text{square} \rangle$ 0063 <b>c</b> 0064 <b>d</b>
33C6	C/kg	SQUARE C OVER KG $\approx \langle \text{square} \rangle$ 0043 <b>C</b> 2215 / 006B <b>k</b> 0067 <b>g</b>
33C7	Co	SQUARE CO $\approx \langle \text{square} \rangle$ 0043 <b>C</b> 006F <b>o</b> 002E .
33C8	dB	SQUARE DB $\approx \langle \text{square} \rangle$ 0064 <b>d</b> 0042 <b>B</b>
33C9	Gy	SQUARE GY $\approx \langle \text{square} \rangle$ 0047 <b>G</b> 0079 <b>y</b>
33CA	ha	SQUARE HA $\approx \langle \text{square} \rangle$ 0068 <b>h</b> 0061 <b>a</b>
33CB	HP	SQUARE HP $\approx \langle \text{square} \rangle$ 0048 <b>H</b> 0050 <b>P</b>
33CC	in	SQUARE IN $\approx \langle \text{square} \rangle$ 0069 <b>i</b> 006E <b>n</b>
33CD	KK	SQUARE KK $\approx \langle \text{square} \rangle$ 004B <b>K</b> 004B <b>K</b>
33CE	KM	SQUARE KM CAPITAL $\approx \langle \text{square} \rangle$ 004B <b>K</b> 004D <b>M</b>
33CF	kt	SQUARE KT $\approx \langle \text{square} \rangle$ 006B <b>k</b> 0074 <b>t</b>
33D0	lm	SQUARE LM $\approx \langle \text{square} \rangle$ 006C <b>l</b> 006D <b>m</b>
33D1	ln	SQUARE LN $\approx \langle \text{square} \rangle$ 006C <b>l</b> 006E <b>n</b>
33D2	log	SQUARE LOG $\approx \langle \text{square} \rangle$ 006C <b>l</b> 006F <b>o</b> 0067 <b>g</b>
33D3	lx	SQUARE LX $\approx \langle \text{square} \rangle$ 006C <b>l</b> 0078 <b>x</b>
33D4	mb	SQUARE MB SMALL $\approx \langle \text{square} \rangle$ 006D <b>m</b> 0062 <b>b</b>
33D5	mil	SQUARE MIL $\approx \langle \text{square} \rangle$ 006D <b>m</b> 0069 <b>i</b> 006C <b>l</b>
33D6	mol	SQUARE MOL $\approx \langle \text{square} \rangle$ 006D <b>m</b> 006F <b>o</b> 006C <b>l</b>
33D7	pH	SQUARE PH $\approx \langle \text{square} \rangle$ 0050 <b>P</b> 0048 <b>H</b>

## 33D8

## CJK Compatibility

## 33FF

33D8	pm	SQUARE PM
		≈ <square> 0070 p 002E . 006D m 002E .
33D9	PPM	SQUARE PPM
		≈ <square> 0050 P 0050 P 004D M
33DA	PR	SQUARE PR
		≈ <square> 0050 P 0052 R
33DB	sr	SQUARE SR
		≈ <square> 0073 s 0072 r
33DC	Sv	SQUARE SV
		≈ <square> 0053 S 0076 v
33DD	Wb	SQUARE WB
		≈ <square> 0057 W 0062 b
33DE	$\frac{V}{m}$	SQUARE V OVER M
		≈ <square> 0056 V 2215 / 006D m
33DF	$\frac{A}{m}$	SQUARE A OVER M
		≈ <square> 0041 A 2215 / 006D m

**Telegraph symbols for days**

33E0	1日	IDEOGRAPHIC TELEGRAPH SYMBOL FOR DAY ONE
		≈ 0031 1 65E5 日
33E1	2日	IDEOGRAPHIC TELEGRAPH SYMBOL FOR DAY TWO
		≈ 0032 2 65E5 日
33E2	3日	IDEOGRAPHIC TELEGRAPH SYMBOL FOR DAY THREE
		≈ 0033 3 65E5 日
33E3	4日	IDEOGRAPHIC TELEGRAPH SYMBOL FOR DAY FOUR
		≈ 0034 4 65E5 日
33E4	5日	IDEOGRAPHIC TELEGRAPH SYMBOL FOR DAY FIVE
		≈ 0035 5 65E5 日
33E5	6日	IDEOGRAPHIC TELEGRAPH SYMBOL FOR DAY SIX
		≈ 0036 6 65E5 日
33E6	7日	IDEOGRAPHIC TELEGRAPH SYMBOL FOR DAY SEVEN
		≈ 0037 7 65E5 日
33E7	8日	IDEOGRAPHIC TELEGRAPH SYMBOL FOR DAY EIGHT
		≈ 0038 8 65E5 日
33E8	9日	IDEOGRAPHIC TELEGRAPH SYMBOL FOR DAY NINE
		≈ 0039 9 65E5 日
33E9	10日	IDEOGRAPHIC TELEGRAPH SYMBOL FOR DAY TEN
		≈ 0031 1 0030 0 65E5 日
33EA	11日	IDEOGRAPHIC TELEGRAPH SYMBOL FOR DAY ELEVEN
		≈ 0031 1 0031 1 65E5 日
33EB	12日	IDEOGRAPHIC TELEGRAPH SYMBOL FOR DAY TWELVE
		≈ 0031 1 0032 2 65E5 日
33EC	13日	IDEOGRAPHIC TELEGRAPH SYMBOL FOR DAY THIRTEEN
		≈ 0031 1 0033 3 65E5 日
33ED	14日	IDEOGRAPHIC TELEGRAPH SYMBOL FOR DAY FOURTEEN
		≈ 0031 1 0034 4 65E5 日

33EE	15日	IDEOGRAPHIC TELEGRAPH SYMBOL FOR DAY FIFTEEN
		≈ 0031 1 0035 5 65E5 日
33EF	16日	IDEOGRAPHIC TELEGRAPH SYMBOL FOR DAY SIXTEEN
		≈ 0031 1 0036 6 65E5 日
33F0	17日	IDEOGRAPHIC TELEGRAPH SYMBOL FOR DAY SEVENTEEN
		≈ 0031 1 0037 7 65E5 日
33F1	18日	IDEOGRAPHIC TELEGRAPH SYMBOL FOR DAY EIGHTEEN
		≈ 0031 1 0038 8 65E5 日
33F2	19日	IDEOGRAPHIC TELEGRAPH SYMBOL FOR DAY NINETEEN
		≈ 0031 1 0039 9 65E5 日
33F3	20日	IDEOGRAPHIC TELEGRAPH SYMBOL FOR DAY TWENTY
		≈ 0032 2 0030 0 65E5 日
33F4	21日	IDEOGRAPHIC TELEGRAPH SYMBOL FOR DAY TWENTY-ONE
		≈ 0032 2 0031 1 65E5 日
33F5	22日	IDEOGRAPHIC TELEGRAPH SYMBOL FOR DAY TWENTY-TWO
		≈ 0032 2 0032 2 65E5 日
33F6	23日	IDEOGRAPHIC TELEGRAPH SYMBOL FOR DAY TWENTY-THREE
		≈ 0032 2 0033 3 65E5 日
33F7	24日	IDEOGRAPHIC TELEGRAPH SYMBOL FOR DAY TWENTY-FOUR
		≈ 0032 2 0034 4 65E5 日
33F8	25日	IDEOGRAPHIC TELEGRAPH SYMBOL FOR DAY TWENTY-FIVE
		≈ 0032 2 0035 5 65E5 日
33F9	26日	IDEOGRAPHIC TELEGRAPH SYMBOL FOR DAY TWENTY-SIX
		≈ 0032 2 0036 6 65E5 日
33FA	27日	IDEOGRAPHIC TELEGRAPH SYMBOL FOR DAY TWENTY-SEVEN
		≈ 0032 2 0037 7 65E5 日
33FB	28日	IDEOGRAPHIC TELEGRAPH SYMBOL FOR DAY TWENTY-EIGHT
		≈ 0032 2 0038 8 65E5 日
33FC	29日	IDEOGRAPHIC TELEGRAPH SYMBOL FOR DAY TWENTY-NINE
		≈ 0032 2 0039 9 65E5 日
33FD	30日	IDEOGRAPHIC TELEGRAPH SYMBOL FOR DAY THIRTY
		≈ 0033 3 0030 0 65E5 日
33FE	31日	IDEOGRAPHIC TELEGRAPH SYMBOL FOR DAY THIRTY-ONE
		≈ 0033 3 0031 1 65E5 日

**Squared Latin abbreviation**

33FF	gal	SQUARE GAL
		≈ <square> 0067 g 0061 a 006C l