


































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

**C0 controls**









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

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

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

**ASCII punctuation and symbols**

*Based on ISO/IEC 646.*

0020		SPACE • 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 ͮ 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 ٪ commercial minus sign
0026	&	<b>AMPERSAND</b> → 204A Ɂ tironian sign et → 214B ͯ 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 ó 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

**ASCII digits**

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

0039	9	DIGIT NINE
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**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 ﺃ 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 ﺀ 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 ℬ script capital b
0043	C	LATIN CAPITAL LETTER C → 2102 ™ double-struck capital c → 212D ℄ black-letter capital c
0044	D	LATIN CAPITAL LETTER D
0045	E	LATIN CAPITAL LETTER E → 2107 ℰ euler constant → 2130 ℰ script capital e
0046	F	LATIN CAPITAL LETTER F → 2131 ℱ script capital f → 2132 ™ turned capital f
0047	G	LATIN CAPITAL LETTER G
0048	H	LATIN CAPITAL LETTER H → 210B ℋ script capital h → 210C ℣ black-letter capital h → 210D ℤ double-struck capital h

- 0049 I LATIN CAPITAL LETTER I  
 • Turkish and Azerbaijani use 0131 İ for lowercase  
 → 0130 Ĩ latin capital letter i with dot above  
 → 0406 І cyrillic capital letter byelorussian-ukrainian i  
 → 04C0 І cyrillic letter palochka  
 → 2110 ℐ script capital i  
 → 2111 Ꝑ black-letter capital i  
 → 2160 Ⅰ roman numeral one
- 004A J LATIN CAPITAL LETTER J
- 004B K LATIN CAPITAL LETTER K  
 → 212A Ƒ kelvin sign
- 004C L LATIN CAPITAL LETTER L  
 → 2112 ℒ script capital l
- 004D M LATIN CAPITAL LETTER M  
 → 2133 ™ script capital m
- 004E N LATIN CAPITAL LETTER N  
 → 2115 Ɲ double-struck capital n
- 004F O LATIN CAPITAL LETTER O
- 0050 P LATIN CAPITAL LETTER P  
 → 2119 Ɔ double-struck capital p
- 0051 Q LATIN CAPITAL LETTER Q  
 → 211A Ɔ double-struck capital q
- 0052 R LATIN CAPITAL LETTER R  
 → 211B Ǝ script capital r  
 → 211C Ǝ black-letter capital r  
 → 211D Ǝ 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 Ⅴ 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 Ʒ double-struck capital z  
 → 2128 Ʒ black-letter capital z

**ASCII punctuation and symbols**

- 005B [ LEFT SQUARE BRACKET  
 = opening square bracket (1.0)  
 • other bracket characters: 27E6 ⌈ —27EB ⌋ , 2983 ⌊ —2998 ⌋ , 3008 ⌞ —301B ⌟
- 005C \ REVERSE SOLIDUS  
 = backslash  
 → 20E5 Ƶ combining reverse solidus overlay  
 → 2216 ∖ set minus
- 005D ] RIGHT SQUARE BRACKET  
 = closing square bracket (1.0)
- 005E ^ CIRCUMFLEX ACCENT  
 • this is a spacing character  
 → 02C4 ˆ modifier letter up arrowhead  
 → 02C6 ˆ modifier letter circumflex accent  
 → 0302 ˆ combining circumflex accent  
 → 2038 ̂ caret  
 → 2303 ̂ up arrowhead

- 005F \_ LOW LINE  
 = spacing underscore (1.0)  
 • this is a spacing character  
 → 02CD ˘ modifier letter low macron  
 → 0331 ˘ combining macron below  
 → 0332 ˘ combining low line  
 → 2017 ˉ double low line
- 0060 ` GRAVE ACCENT  
 • this is a spacing character  
 → 02CB ˘ modifier letter grave accent  
 → 0300 ˘ combining grave accent  
 → 2035 ˘ 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 Ǝ estimated symbol  
 → 212F Ǝ script small e
- 0066 f LATIN SMALL LETTER F
- 0067 g LATIN SMALL LETTER G  
 → 0261 ɡ latin small letter script g  
 → 210A ɡ script small g
- 0068 h LATIN SMALL LETTER H  
 → 04BB Һ cyrillic small letter shha  
 → 210E Ƨ planck constant
- 0069 i LATIN SMALL LETTER I  
 • Turkish and Azerbaijani use 0130 ĩ for uppercase  
 → 0131 ı latin small letter dotless i  
 → 1D6A4 ı mathematical italic small dotless i
- 006A j LATIN SMALL LETTER J  
 → 0237 ʝ latin small letter dotless j  
 → 1D6A5 ʝ mathematical italic small dotless j
- 006B k LATIN SMALL LETTER K
- 006C l LATIN SMALL LETTER L  
 → 2113 ƭ script small l  
 → 1D4C1 ƭ mathematical script small l
- 006D m LATIN SMALL LETTER M
- 006E n LATIN SMALL LETTER N  
 → 207F ⁿ superscript latin small letter n
- 006F o LATIN SMALL LETTER O  
 → 2134 Ǝ 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 ƶ 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 ã 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	Ð 00D0	à 00E0	ð 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		<b>NO-BREAK SPACE</b> • 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		<b>INVERTED EXCLAMATION MARK</b> • Spanish, Asturian, Galician → 0021 ! exclamation mark
00A2		<b>CENT SIGN</b>
00A3		<b>POUND SIGN</b> = pound sterling, Irish punt, Italian lira, Turkish lira, etc. → 20A4  lira sign → 10192  roman semuncia sign
00A4		<b>CURRENCY SIGN</b> • other currency symbol characters: 20A0  –20B5  → 0024 \$ dollar sign
00A5		<b>YEN SIGN</b> = yuan sign • glyph may have one or two crossbars
00A6		<b>BROKEN BAR</b> = broken vertical bar (1.0) = parted rule (in typography)
00A7		<b>SECTION SIGN</b> • paragraph sign in some European usage
00A8		<b>DIAERESIS</b> • this is a spacing character → 0308  combining diaeresis ≈ 0020  0308 
00A9		<b>COPYRIGHT SIGN</b> → 2117  sound recording copyright → 24B8  circled latin capital letter c
00AA		<b>FEMININE ORDINAL INDICATOR</b> • Spanish ≈ <super> 0061 <b>a</b>
00AB		<b>LEFT-POINTING DOUBLE ANGLE QUOTATION MARK</b> = left guillemet = chevrons (in typography) • usually opening, sometimes closing → 226A  much less-than → 300A  left double angle bracket
00AC		<b>NOT SIGN</b> = angled dash (in typography) → 2310  reversed not sign
00AD		<b>SOFT HYPHEN</b> = 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 ´ combining acute accent → 2032 ´ prime ≈ 0020 [sp] 0301 ´
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 ø
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	Ë	<b>LATIN CAPITAL LETTER E WITH DIAERESIS</b> ≡ 0045 E 0308 ë
00CC	Ì	<b>LATIN CAPITAL LETTER I WITH GRAVE</b> ≡ 0049 I 0300 ì
00CD	Í	<b>LATIN CAPITAL LETTER I WITH ACUTE</b> ≡ 0049 I 0301 í
00CE	Î	<b>LATIN CAPITAL LETTER I WITH CIRCUMFLEX</b> ≡ 0049 I 0302 î
00CF	Ï	<b>LATIN CAPITAL LETTER I WITH DIAERESIS</b> ≡ 0049 I 0308 ï
00D0	Ð	<b>LATIN CAPITAL LETTER ETH</b> → 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 ñ

00D2 Ò LATIN CAPITAL LETTER O WITH GRAVE  
≡ 004F O 0300 ò

00D3 Ó LATIN CAPITAL LETTER O WITH ACUTE  
≡ 004F O 0301 ó

00D4 Ô LATIN CAPITAL LETTER O WITH CIRCUMFLEX  
≡ 004F O 0302 ô

00D5 Õ LATIN CAPITAL LETTER O WITH TILDE  
≡ 004F O 0303 õ

00D6 Ö LATIN CAPITAL LETTER O WITH DIAERESIS  
≡ 004F O 0308 ö

#### Mathematical operator

00D7 × MULTIPLICATION SIGN  
= z notation Cartesian product

#### Letters

00D8 Ø LATIN CAPITAL LETTER O WITH STROKE  
= o slash  
→ 2205 ∅ empty set

00D9 Ù LATIN CAPITAL LETTER U WITH GRAVE  
≡ 0055 U 0300 ù

00DA Ú LATIN CAPITAL LETTER U WITH ACUTE  
≡ 0055 U 0301 ú

00DB Û LATIN CAPITAL LETTER U WITH CIRCUMFLEX  
≡ 0055 U 0302 û

00DC Ü LATIN CAPITAL LETTER U WITH DIAERESIS  
≡ 0055 U 0308 ü

00DD Ý LATIN CAPITAL LETTER Y WITH ACUTE  
≡ 0059 Y 0301 ý

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 à

00E1 á LATIN SMALL LETTER A WITH ACUTE  
≡ 0061 a 0301 á

00E2 â LATIN SMALL LETTER A WITH CIRCUMFLEX  
≡ 0061 a 0302 â

00E3 ã LATIN SMALL LETTER A WITH TILDE  
• Portuguese  
≡ 0061 a 0303 ã

00E4 ä LATIN SMALL LETTER A WITH DIAERESIS  
≡ 0061 a 0308 ä

00E5 å LATIN SMALL LETTER A WITH RING ABOVE  
• Danish, Norwegian, Swedish, Walloon  
≡ 0061 a 030A å

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 æ latin small ligature oe  
→ 04D5 æ cyrillic small ligature a ie

00E7 ç LATIN SMALL LETTER C WITH CEDILLA  
≡ 0063 c 0327 ç

00E8 è LATIN SMALL LETTER E WITH GRAVE  
≡ 0065 e 0300 è

00E9 é LATIN SMALL LETTER E WITH ACUTE  
≡ 0065 e 0301 é

00EA ê LATIN SMALL LETTER E WITH CIRCUMFLEX  
≡ 0065 e 0302 ê

00EB ë LATIN SMALL LETTER E WITH DIAERESIS  
≡ 0065 e 0308 ë

00EC ì LATIN SMALL LETTER I WITH GRAVE  
• Italian, Malagasy

≡ 0069 i 0300 ì

00ED í LATIN SMALL LETTER I WITH ACUTE  
≡ 0069 i 0301 í

00EE î LATIN SMALL LETTER I WITH CIRCUMFLEX  
≡ 0069 i 0302 î

00EF ï LATIN SMALL LETTER I WITH DIAERESIS  
≡ 0069 i 0308 ï

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 ñ

00F2 ò LATIN SMALL LETTER O WITH GRAVE  
≡ 006F o 0300 ò

00F3 ó LATIN SMALL LETTER O WITH ACUTE  
≡ 006F o 0301 ó

00F4 ô LATIN SMALL LETTER O WITH CIRCUMFLEX  
≡ 006F o 0302 ô

00F5 õ LATIN SMALL LETTER O WITH TILDE  
• Portuguese, Estonian

≡ 006F o 0303 õ  
00F6 ö LATIN SMALL LETTER O WITH DIAERESIS  
≡ 006F o 0308 ö

#### Mathematical operator

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

#### Letters

00F8 ø LATIN SMALL LETTER O WITH STROKE  
= o slash

• Danish, Norwegian, Faroese, IPA  
00F9 ù LATIN SMALL LETTER U WITH GRAVE  
• French, Italian  
≡ 0075 u 0300 ù

00FA ú LATIN SMALL LETTER U WITH ACUTE  
≡ 0075 u 0301 ú

00FB û LATIN SMALL LETTER U WITH CIRCUMFLEX  
≡ 0075 u 0302 û

00FC ü LATIN SMALL LETTER U WITH DIAERESIS  
≡ 0075 u 0308 ü

00FD ý LATIN SMALL LETTER Y WITH ACUTE  
• Czech, Slovak, Icelandic, Faroese, Welsh, Malagasy  
≡ 0079 y 0301 ý

00FE þ LATIN SMALL LETTER THORN  
• Icelandic, Old English, phonetics  
• Runic letter borrowed into Latin script  
→ 16A6 þ runic letter thurisaz thurs thorn

00FF    ÿ    LATIN SMALL LETTER Y WITH DIAERESIS  
    • 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	Ț 0162	Ț 0172
3	ă 0103	ē 0113	ģ 0123	ij 0133	Ń 0143	œ 0153	ț 0163	ȕ 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	Ė 0116	Ħ 0126	Ꞥ 0136	ņ 0146	Ŗ 0156	Ț 0166	Ŷ 0176
7	ć 0107	ė 0117	ħ 0127	ꞥ 0137	Ň 0147	ŗ 0157	ț 0167	ŷ 0177
8	Ĉ 0108	Ę 0118	Ĩ 0128	κ 0138	ň 0148	Ř 0158	Ů 0168	Ỳ 0178
9	ĉ 0109	ę 0119	ĩ 0129	ĺ 0139	’n 0149	ř 0159	ů 0169	Ẑ 0179
A	Ċ 010A	Ė 011A	Ī 012A	Í 013A	Ņ 014A	Ś 015A	Ū 016A	ẑ 017A
B	ċ 010B	ė 011B	ī 012B	Ĵ 013B	ņ 014B	ś 015B	ū 016B	Ẓ 017B
C	Č 010C	Ĝ 011C	Ĭ 012C	ı 013C	Ō 014C	Ŝ 015C	Ů 016C	ẓ 017C
D	č 010D	ĝ 011D	ĭ 012D	Ĵ 013D	ō 014D	ŝ 015D	ů 016D	Ẕ 017D
E	Ď 010E	Ĝ 011E	Į 012E	ı 013E	Ŏ 014E	Ş 015E	Ű 016E	ẕ 017E
F	ď 010F	ğ 011F	į 012F	Ĵ 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 ˆ
0109	ĉ	LATIN SMALL LETTER C WITH CIRCUMFLEX • Esperanto ≡ 0063 c 0302 ˆ
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 ǎ
010D	č	LATIN SMALL LETTER C WITH CARON • Czech, Slovak, Slovenian, and many other languages ≡ 0063 c 030C ǎ
010E	Ď	LATIN CAPITAL LETTER D WITH CARON • the form using caron/hacek is preferred in all contexts ≡ 0044 D 030C ǎ
010F	ď	LATIN SMALL LETTER D WITH CARON • Czech, Slovak • the form using apostrophe is preferred in typesetting ≡ 0064 d 030C ǎ
0110	Ď	LATIN CAPITAL LETTER D WITH STROKE → 00D0 Đ latin capital letter eth → 0111 đ latin small letter d with stroke → 0189 Đ 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 Đ 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 ǎ
011B	ě	LATIN SMALL LETTER E WITH CARON • Czech, ... ≡ 0065 e 030C ǎ
011C	Ĝ	LATIN CAPITAL LETTER G WITH CIRCUMFLEX ≡ 0047 G 0302 ˆ
011D	ĝ	LATIN SMALL LETTER G WITH CIRCUMFLEX • Esperanto ≡ 0067 g 0302 ˆ
011E	Ģ	LATIN CAPITAL LETTER G WITH BREVE ≡ 0047 G 0306 ̂
011F	ģ	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 ˆ
0125	ĥ	LATIN SMALL LETTER H WITH CIRCUMFLEX • Esperanto ≡ 0068 h 0302 ˆ
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	İ	LATIN CAPITAL LETTER I WITH TILDE ≡ 0049 I 0303 ̃
0129	ĩ	LATIN SMALL LETTER I WITH TILDE • Greenlandic (old orthography) ≡ 0069 i 0303 ̃
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 ǎ	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 ·
012D	ı	LATIN SMALL LETTER I WITH BREVE • Latin, ... ≡ 0069 i 0306 ǎ	0141	Ł	LATIN CAPITAL LETTER L WITH STROKE → 023D Ł latin capital letter l with bar
012E	I	LATIN CAPITAL LETTER I WITH OGONEK ≡ 0049 I 0328 ȳ	0142	ł	LATIN SMALL LETTER L WITH STROKE • Polish, ... → 019A ł latin small letter l with bar
012F	į	LATIN SMALL LETTER I WITH OGONEK • Lithuanian, ... ≡ 0069 i 0328 ȳ	0143	Ń	LATIN CAPITAL LETTER N WITH ACUTE ≡ 004E N 0301 ń
0130	İ	LATIN CAPITAL LETTER I WITH DOT ABOVE = i dot • Turkish, Azerbaijani • lowercase is 0069 i → 0049 I latin capital letter i ≡ 0049 I 0307 ı	0144	ń	LATIN SMALL LETTER N WITH ACUTE • Polish, ... ≡ 006E n 0301 ń
0131	ı	LATIN SMALL LETTER DOTLESS I • Turkish, Azerbaijani • uppercase is 0049 I → 0069 i latin small letter i	0145	Ñ	LATIN CAPITAL LETTER N WITH CEDILLA ≡ 004E N 0327 ñ
0132	IJ	LATIN CAPITAL LIGATURE IJ ≈ 0049 I 004A J	0146	ñ	LATIN SMALL LETTER N WITH CEDILLA • Latvian ≡ 006E n 0327 ñ
0133	ij	LATIN SMALL LIGATURE IJ • Dutch ≈ 0069 i 006A j	0147	Ň	LATIN CAPITAL LETTER N WITH CARON ≡ 004E N 030C ň
0134	Ĵ	LATIN CAPITAL LETTER J WITH CIRCUMFLEX ≡ 004A J 0302 ô	0148	ň	LATIN SMALL LETTER N WITH CARON • Czech, Slovak ≡ 006E n 030C ň
0135	ĵ	LATIN SMALL LETTER J WITH CIRCUMFLEX • Esperanto ≡ 006A j 0302 ô	<b>Deprecated letter</b>		
0136	Ķ	LATIN CAPITAL LETTER K WITH CEDILLA ≡ 004B K 0327 ķ	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
0137	ķ	LATIN SMALL LETTER K WITH CEDILLA • Latvian ≡ 006B k 0327 ķ	<b>European Latin</b>		
0138	ƛ	LATIN SMALL LETTER KRA • Greenlandic (old orthography)	014A	Ŋ	LATIN CAPITAL LETTER ENG • glyph may also have appearance of large form of the small letter
0139	Ĺ	LATIN CAPITAL LETTER L WITH ACUTE ≡ 004C L 0301 ĺ	014B	ŋ	LATIN SMALL LETTER ENG = engma, angma • Sami, Mende, IPA, ...
013A	Í	LATIN SMALL LETTER L WITH ACUTE • Slovak ≡ 006C l 0301 ı	014C	Ō	LATIN CAPITAL LETTER O WITH MACRON ≡ 004F O 0304 ȯ
013B	Ļ	LATIN CAPITAL LETTER L WITH CEDILLA ≡ 004C L 0327 ļ	014D	ō	LATIN SMALL LETTER O WITH MACRON • Latvian, Latin, ... ≡ 006F o 0304 ȯ
013C	ļ	LATIN SMALL LETTER L WITH CEDILLA • Latvian ≡ 006C l 0327 ļ	014E	Ŏ	LATIN CAPITAL LETTER O WITH BREVE ≡ 004F O 0306 Ȱ
013D	Ľ	LATIN CAPITAL LETTER L WITH CARON • the form using apostrophe is preferred in typesetting ≡ 004C L 030C ľ	014F	ő	LATIN SMALL LETTER O WITH BREVE • Latin ≡ 006F o 0306 Ȱ
013E	Ĺ	LATIN SMALL LETTER L WITH CARON • Slovak • the form using apostrophe is preferred in typesetting ≡ 006C l 030C ľ	0150	Ő	LATIN CAPITAL LETTER O WITH DOUBLE ACUTE ≡ 004F O 030B ő
013F	Ł	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 ·	0151	ő	LATIN SMALL LETTER O WITH DOUBLE ACUTE • Hungarian ≡ 006F o 030B ő
			0152	Œ	LATIN CAPITAL LIGATURE OE

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	Ũ	LATIN CAPITAL LETTER U WITH TILDE = 0055 U 0303 ã
0154	Ř	LATIN CAPITAL LETTER R WITH ACUTE = 0052 R 0301 č	0169	ü	LATIN SMALL LETTER U WITH TILDE • Greenlandic (old orthography) = 0075 u 0303 ã
0155	ř	LATIN SMALL LETTER R WITH ACUTE • Slovak, ... = 0072 r 0301 č	016A	Ū	LATIN CAPITAL LETTER U WITH MACRON = 0055 U 0304 ū
0156	Ŕ	LATIN CAPITAL LETTER R WITH CEDILLA = 0052 R 0327 ȓ	016B	ū	LATIN SMALL LETTER U WITH MACRON • Latvian, Lithuanian, Latin, ... = 0075 u 0304 ū
0157	ŗ	LATIN SMALL LETTER R WITH CEDILLA • Livonian = 0072 r 0327 ȓ	016C	Ů	LATIN CAPITAL LETTER U WITH BREVE = 0055 U 0306 ů
0158	Ř	LATIN CAPITAL LETTER R WITH CARON = 0052 R 030C ř	016D	ů	LATIN SMALL LETTER U WITH BREVE • Latin, Esperanto, ... = 0075 u 0306 ů
0159	ř	LATIN SMALL LETTER R WITH CARON • Czech, ... = 0072 r 030C ř	016E	Ů	LATIN CAPITAL LETTER U WITH RING ABOVE = 0055 U 030A ů
015A	Ś	LATIN CAPITAL LETTER S WITH ACUTE = 0053 S 0301 ś	016F	ū	LATIN SMALL LETTER U WITH RING ABOVE • Czech, ... = 0075 u 030A ů
015B	ś	LATIN SMALL LETTER S WITH ACUTE • Polish, Indic transliteration, ... = 0073 s 0301 ś	0170	Ű	LATIN CAPITAL LETTER U WITH DOUBLE ACUTE = 0055 U 030B ű
015C	Ŝ	LATIN CAPITAL LETTER S WITH CIRCUMFLEX = 0053 S 0302 ŝ	0171	ű	LATIN SMALL LETTER U WITH DOUBLE ACUTE • Hungarian = 0075 u 030B ű
015D	ŝ	LATIN SMALL LETTER S WITH CIRCUMFLEX • Esperanto = 0073 s 0302 ŝ	0172	Ų	LATIN CAPITAL LETTER U WITH OGONEK = 0055 U 0328 ų
015E	Ş	LATIN CAPITAL LETTER S WITH CEDILLA = 0053 S 0327 ş	0173	ų	LATIN SMALL LETTER U WITH OGONEK • Lithuanian = 0075 u 0328 ų
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 ş	0174	Ŵ	LATIN CAPITAL LETTER W WITH CIRCUMFLEX = 0057 W 0302 ŵ
0160	Š	LATIN CAPITAL LETTER S WITH CARON = 0053 S 030C š	0175	ŵ	LATIN SMALL LETTER W WITH CIRCUMFLEX • Welsh = 0077 w 0302 ŵ
0161	š	LATIN SMALL LETTER S WITH CARON • Czech, Estonian, Finnish, Slovak, and many other languages = 0073 s 030C š	0176	Ŷ	LATIN CAPITAL LETTER Y WITH CIRCUMFLEX = 0059 Y 0302 ŷ
0162	Ţ	LATIN CAPITAL LETTER T WITH CEDILLA = 0054 T 0327 ț	0177	ŷ	LATIN SMALL LETTER Y WITH CIRCUMFLEX • Welsh = 0079 y 0302 ŷ
0163	ţ	LATIN SMALL LETTER T WITH CEDILLA • Semitic transliteration, ... • the character 021B ț is preferred for Romanian → 021B ț latin small letter t with comma below = 0074 t 0327 ț	0178	Ÿ	LATIN CAPITAL LETTER Y WITH DIAERESIS • French, Igbo → 00FF ŷ latin small letter y with diaeresis = 0059 Y 0308 ŷ
0164	Ť	LATIN CAPITAL LETTER T WITH CARON • the form using caron/hacek is preferred in all contexts = 0054 T 030C ť	0179	Ž	LATIN CAPITAL LETTER Z WITH ACUTE = 005A Z 0301 ž
0165	ť	LATIN SMALL LETTER T WITH CARON • Czech, Slovak • the form using apostrophe is preferred in typesetting = 0074 t 030C ť	017A	ž	LATIN SMALL LETTER Z WITH ACUTE • Polish, ... = 007A z 0301 ž
0166	Ƨ	LATIN CAPITAL LETTER T WITH STROKE	017B	Ž	LATIN CAPITAL LETTER Z WITH DOT ABOVE = 005A Z 0307 ž
0167	Ƨ	LATIN SMALL LETTER T WITH STROKE • Sami	017C	ž	LATIN SMALL LETTER Z WITH DOT ABOVE • Polish, ... = 007A z 0307 ž
			017D	Ž	LATIN CAPITAL LETTER Z WITH CARON = 005A Z 030C ž
			017E	ž	LATIN SMALL LETTER Z WITH CARON • Czech, Estonian, Finnish, Slovak, Slovenian, and many other languages = 007A z 030C ž

- 017F f 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	Ʒ 0240
1	Ḃ 0181	Ƒ 0191	σ 01A1	Ʈ 01B1	ǁ 01C1	Ǫ 01D1	ā 01E1	DZ 01F1	à 0201	ř 0211	ɖ 0221	ō 0231	Ʒ 0241
2	Ḅ 0182	ƒ 0192	Ɔ 01A2	Ʈ 01B2	ǂ 01C2	ǫ 01D2	Ē 01E2	Dz 01F2	Â 0202	Ŕ 0212	8 0222	Ȳ 0232	Ʒ 0242
3	Ḗ 0183	Ƣ 0193	Ɔ 01A3	Ʈ 01B3	ǃ 01C3	Ǫ 01D3	æ 01E3	dz 01F3	â 0203	ŕ 0213	8 0223	ȳ 0233	Ḃ 0243
4	Ḕ 0184	Ƴ 0194	Ɔ 01A4	Ʈ 01B4	Ǆ 01C4	ǫ 01D4	Ĝ 01E4	Ĝ 01F4	È 0204	Ù 0214	Ʒ 0224	ł 0234	Ḕ 0244
5	ḕ 0185	ḥ 0195	Ɔ 01A5	Ʈ 01B5	ǅ 01C5	ǫ 01D5	g 01E5	g 01F5	è 0205	ù 0215	Ʒ 0225	ḥ 0235	Λ 0245
6	Ḍ 0186	ł 0196	Ɔ 01A6	Ʈ 01B6	ǆ 01C6	ǫ 01D6	Ĝ 01E6	Ḥ 01F6	Ê 0206	Û 0216	À 0226	ł 0236	Ḍ 0246
7	Ḧ 0187	Ǝ 0197	Ɔ 01A7	Ʈ 01B7	Ǉ 01C7	ǫ 01D7	ğ 01E7	Ɔ 01F7	ê 0207	û 0217	à 0227	Ǝ 0237	ø 0247
8	Ḧ 0188	Ǝ 0198	Ɔ 01A8	Ʈ 01B8	Ǉ 01C8	ǫ 01D8	Ķ 01E8	Ḥ 01F8	Ĭ 0208	Ş 0218	Ḥ 0228	ḥ 0238	Ǝ 0248
9	Ḭ 0189	Ǝ 0199	Ɔ 01A9	Ʈ 01B9	Ǉ 01C9	ǫ 01D9	Ķ 01E9	Ḥ 01F9	î 0209	ş 0219	ḥ 0229	ḥ 0239	Ǝ 0249
A	Ḭ 018A	Ǝ 019A	Ɔ 01AA	Ʈ 01BA	Ǉ 01CA	ǫ 01DA	Ķ 01EA	Ķ 01FA	Î 020A	Ḥ 021A	Ḥ 022A	Ḥ 023A	Ḭ 024A
B	Ḭ 018B	Ǝ 019B	Ɔ 01AB	Ʈ 01BB	Ǉ 01CB	ǫ 01DB	Ķ 01EB	Ķ 01FB	î 020B	ḥ 021B	Ḥ 022B	Ḥ 023B	Ḭ 024B
C	Ḭ 018C	Ǝ 019C	Ɔ 01AC	Ʈ 01BC	Ǉ 01CC	ǫ 01DC	Ķ 01EC	Ķ 01FC	Ò 020C	Ǝ 021C	Ḥ 022C	ḥ 023C	Ḭ 024C
D	Ḭ 018D	Ǝ 019D	Ɔ 01AD	Ʈ 01BD	Ǉ 01CD	ǫ 01DD	Ķ 01ED	Ķ 01FD	ò 020D	Ǝ 021D	Ḥ 022D	Ḥ 023D	Ḭ 024D
E	Ḭ 018E	Ǝ 019E	Ɔ 01AE	Ʈ 01BE	Ǉ 01CE	ǫ 01DE	Ķ 01EE	Ķ 01FE	Ô 020E	Ḥ 021E	Ḥ 022E	Ḥ 023E	Ḭ 024E
F	Ḭ 018F	Ǝ 019F	Ɔ 01AF	Ʈ 01BF	Ǉ 01CF	ǫ 01DF	Ķ 01EF	Ķ 01FF	ô 020F	ḥ 021F	ò 022F	ḥ 023F	Ḭ 024F



**Non-European and historic Latin**

0180	<b>ɸ</b>	<b>LATIN SMALL LETTER B WITH STROKE</b> <ul style="list-style-type: none"><li>Americanist and Indo-Europeanist usage for phonetic beta</li><li>Americanist orthographies use an alternate glyph with the stroke through the bowl</li><li>Old Saxon</li><li>uppercase is 0243 <b>B</b></li><li>→ 03B2 <b>β</b> greek small letter beta</li><li>→ 2422 <b>ɸ</b> blank symbol</li></ul>	0190	<b>Ɛ</b>	<b>LATIN CAPITAL LETTER OPEN E</b> <ul style="list-style-type: none"><li>= epsilon</li><li>African</li><li>lowercase is 025B <b>ɛ</b></li><li>→ 2107 <b>Ɛ</b> euler constant</li></ul>
0181	<b>Ɓ</b>	<b>LATIN CAPITAL LETTER B WITH HOOK</b> <ul style="list-style-type: none"><li>Zulu, Pan-Nigerian alphabet</li><li>lowercase is 0253 <b>ɓ</b></li></ul>	0191	<b>Ƒ</b>	<b>LATIN CAPITAL LETTER F WITH HOOK</b> <ul style="list-style-type: none"><li>African</li></ul>
0182	<b>Ḃ</b>	<b>LATIN CAPITAL LETTER B WITH TOPBAR</b>	0192	<b>ƒ</b>	<b>LATIN SMALL LETTER F WITH HOOK</b> <ul style="list-style-type: none"><li>= script f</li><li>= Florin currency symbol (Netherlands)</li><li>= function symbol</li><li>used as abbreviation convention for folder</li></ul>
0183	<b>Ḅ</b>	<b>LATIN SMALL LETTER B WITH TOPBAR</b> <ul style="list-style-type: none"><li>Zhuang (old orthography)</li><li>former Soviet minority language scripts</li><li>→ 0411 <b>Ḃ</b> cyrillic capital letter be</li></ul>	0193	<b>Ɠ</b>	<b>LATIN CAPITAL LETTER G WITH HOOK</b> <ul style="list-style-type: none"><li>African</li><li>lowercase is 0260 <b>Ɣ</b></li></ul>
0184	<b>Ḇ</b>	<b>LATIN CAPITAL LETTER TONE SIX</b>	0194	<b>Ƴ</b>	<b>LATIN CAPITAL LETTER GAMMA</b> <ul style="list-style-type: none"><li>African</li><li>lowercase is 0263 <b>ƴ</b></li></ul>
0185	<b>ḇ</b>	<b>LATIN SMALL LETTER TONE SIX</b> <ul style="list-style-type: none"><li>Zhuang (old orthography)</li><li>Zhuang tone three is Cyrillic ze</li><li>Zhuang tone four is Cyrillic che</li><li>→ 01A8 <b>ḁ</b> latin small letter tone two</li><li>→ 01BD <b>ḅ</b> latin small letter tone five</li><li>→ 0437 <b>ḇ</b> cyrillic small letter ze</li><li>→ 0447 <b>ḇ</b> cyrillic small letter che</li><li>→ 044C <b>ḇ</b> cyrillic small letter soft sign</li></ul>	0195	<b>ḥ</b>	<b>LATIN SMALL LETTER HV</b> <ul style="list-style-type: none"><li>Gothic transliteration</li><li>uppercase is 01F6 <b>Ḥ</b></li></ul>
0186	<b>Ɔ</b>	<b>LATIN CAPITAL LETTER OPEN O</b> <ul style="list-style-type: none"><li>typographically a turned C</li><li>African</li><li>lowercase is 0254 <b>ɔ</b></li></ul>	0196	<b>ɪ</b>	<b>LATIN CAPITAL LETTER IOTA</b> <ul style="list-style-type: none"><li>African</li><li>lowercase is 0269 <b>ɪ</b></li><li>ISO 6438 gives lowercase as 026A, not 0268</li><li>→ 026A <b>ɪ</b> latin letter small capital i</li></ul>
0187	<b>Ɔ̣</b>	<b>LATIN CAPITAL LETTER C WITH HOOK</b>	0197	<b>İ</b>	<b>LATIN CAPITAL LETTER I WITH STROKE</b> <ul style="list-style-type: none"><li>= barred i, i bar</li><li>African</li><li>lowercase is 0268 <b>ı</b></li><li>ISO 6438 gives lowercase as 026A, not 0268</li><li>→ 026A <b>ɪ</b> latin letter small capital i</li></ul>
0188	<b>ɕ</b>	<b>LATIN SMALL LETTER C WITH HOOK</b> <ul style="list-style-type: none"><li>African</li></ul>	0198	<b>Ƙ</b>	<b>LATIN CAPITAL LETTER K WITH HOOK</b>
0189	<b>Ɖ</b>	<b>LATIN CAPITAL LETTER AFRICAN D</b> <ul style="list-style-type: none"><li>Ewe</li><li>lowercase is 0256 <b>ɖ</b></li><li>→ 00D0 <b>Ɖ</b> latin capital letter eth</li><li>→ 0110 <b>Ɖ</b> latin capital letter d with stroke</li></ul>	0199	<b>ƙ</b>	<b>LATIN SMALL LETTER K WITH HOOK</b> <ul style="list-style-type: none"><li>Hausa, Pan-Nigerian alphabet</li></ul>
018A	<b>Ḍ</b>	<b>LATIN CAPITAL LETTER D WITH HOOK</b> <ul style="list-style-type: none"><li>Pan-Nigerian alphabet</li><li>lowercase is 0257 <b>ḏ</b></li></ul>	019A	<b>ɬ</b>	<b>LATIN SMALL LETTER L WITH BAR</b> <ul style="list-style-type: none"><li>= barred l</li><li>Americanist phonetic usage for 026C <b>ɭ</b></li><li>uppercase is 023D <b>Ł</b></li><li>→ 0142 <b>ɬ</b> latin small letter l with stroke</li></ul>
018B	<b>Ḑ</b>	<b>LATIN CAPITAL LETTER D WITH TOPBAR</b>	019B	<b>λ̣</b>	<b>LATIN SMALL LETTER LAMBDA WITH STROKE</b> <ul style="list-style-type: none"><li>= barred lambda, lambda bar</li><li>Americanist phonetic usage</li></ul>
018C	<b>Ḓ</b>	<b>LATIN SMALL LETTER D WITH TOPBAR</b> <ul style="list-style-type: none"><li>former-Soviet minority language scripts</li><li>Zhuang (old orthography)</li></ul>	019C	<b>Ṃ</b>	<b>LATIN CAPITAL LETTER TURNED M</b> <ul style="list-style-type: none"><li>Zhuang (old orthography)</li><li>lowercase is 026F <b>ṃ</b></li></ul>
018D	<b>Ḕ</b>	<b>LATIN SMALL LETTER TURNED DELTA</b> <ul style="list-style-type: none"><li>= reversed Polish-hook o</li><li>archaic phonetic for labialized alveolar fricative</li><li>recommended spellings 007A <b>ḑ</b> 02B7 <b>ḑ</b> or 007A <b>ḑ</b> 032B <b>ḑ</b></li></ul>	019D	<b>Ɲ</b>	<b>LATIN CAPITAL LETTER N WITH LEFT HOOK</b> <ul style="list-style-type: none"><li>African</li><li>lowercase is 0272 <b>ɞ</b></li></ul>
018E	<b>Ǝ</b>	<b>LATIN CAPITAL LETTER REVERSED E</b> <ul style="list-style-type: none"><li>= turned e</li><li>Pan-Nigerian alphabet</li><li>lowercase is 01DD <b>ə</b></li></ul>	019E	<b>ɳ</b>	<b>LATIN SMALL LETTER N WITH LONG RIGHT LEG</b> <ul style="list-style-type: none"><li>archaic phonetic for Japanese 3093 <b>ɳ</b></li><li>recommended spelling for syllabic n is 006E <b>n</b> 0329 <b>ɳ</b></li><li>Lakota (indicates nasalization of vowel)</li><li>uppercase is 0220 <b>Ŋ</b></li></ul>
018F	<b>Ə</b>	<b>LATIN CAPITAL LETTER SCHWA</b> <ul style="list-style-type: none"><li>Azerbaijani, ...</li><li>lowercase is 0259 <b>ə</b></li><li>→ 04D8 <b>Ə</b> cyrillic capital letter schwa</li></ul>	019F	<b>Ɔ̣</b>	<b>LATIN CAPITAL LETTER O WITH MIDDLE TILDE</b> <ul style="list-style-type: none"><li>= barred o, o bar</li><li>lowercase is 0275 <b>ɵ</b></li><li>African</li><li>→ 04E8 <b>Ɔ̣</b> cyrillic capital letter barred o</li></ul>
			01A0	<b>Ɔ̣</b>	<b>LATIN CAPITAL LETTER O WITH HORN</b> <ul style="list-style-type: none"><li>≡ 004F <b>Ɔ̣</b> 031B <b>Ɔ̣</b></li></ul>
			01A1	<b>ơ</b>	<b>LATIN SMALL LETTER O WITH HORN</b> <ul style="list-style-type: none"><li>Vietnamese</li><li>≡ 006F <b>ơ</b> 031B <b>ơ</b></li></ul>

01A2	Œ	LATIN CAPITAL LETTER OI × LATIN CAPITAL LETTER GHA	01B6	z	LATIN SMALL LETTER Z WITH STROKE = barred z, z bar • Pan-Turkic Latin orthography • handwritten variant of Latin “z” → 007A z latin small letter z
01A3	œ	LATIN SMALL LETTER OI × LATIN SMALL LETTER GHA • Pan-Turkic Latin alphabets	01B7	Ʒ	LATIN CAPITAL LETTER EZH • African, Skolt Sami • lowercase is 0292 Ʒ → 021C Ʒ latin capital letter yogh → 04E0 Ʒ cyrillic capital letter abkhasian dze
01A4	Ɔ	LATIN CAPITAL LETTER P WITH HOOK	01B8	Ʒ̂	LATIN CAPITAL LETTER EZH REVERSED
01A5	ɸ	LATIN SMALL LETTER P WITH HOOK • African	01B9	Ʒ̃	LATIN SMALL LETTER EZH REVERSED • archaic phonetic for voiced pharyngeal fricative • sometimes typographically rendered with a turned digit 3 • recommended spelling 0295 Ʒ̃ → 0295 Ʒ̃ latin letter pharyngeal voiced fricative → 0639 Ʒ̃ arabic letter ain
01A6	ŕ	LATIN LETTER YR • Old Norse • from German Standard DIN 31624 and ISO 5426-2 • lowercase is 0280 ŕ	01BA	Ʒ̄	LATIN SMALL LETTER EZH WITH TAIL • archaic phonetic for labialized voiced palatoalveolar or palatal fricative • Twi • recommended spellings 0292 Ʒ̄ 02B7 ʷ or 006A j̄ 02B7 ʷ
01A7	Ȥ	LATIN CAPITAL LETTER TONE TWO	01BB	Ȥ	LATIN LETTER TWO WITH STROKE • archaic phonetic for [dz] affricate • recommended spellings 0292 Ȥ or 0064 d̄ 007A z̄
01A8	ȥ	LATIN SMALL LETTER TONE TWO • Zhuang (old orthography) • typographically a reversed S → 0185 ȥ latin small letter tone six	01BC	5	LATIN CAPITAL LETTER TONE FIVE
01A9	Σ	LATIN CAPITAL LETTER ESH • African • lowercase is 0283 ƒ → 03A3 Σ greek capital letter sigma	01BD	5	LATIN SMALL LETTER TONE FIVE • Zhuang (old orthography) → 0185 ȥ latin small letter tone six
01AA	ɬ	LATIN LETTER REVERSED ESH LOOP • archaic phonetic for labialized palatoalveolar or palatal fricative • Twi • recommended spellings 0283 ɬ̄ 02B7 ʷ, 00E7 ɬ̄ 02B7 ʷ, 0068 h̄ 0265 ɬ̄, etc.	01BE	ʂ	LATIN LETTER INVERTED GLOTTAL STOP WITH STROKE • archaic phonetic for [ts] affricate • recommended spelling 0074 t̄ 0073 s̄ • letter form is actually derived from ligation of ts, rather than inverted glottal stop
01AB	ɮ	LATIN SMALL LETTER T WITH PALATAL HOOK • archaic phonetic for palatalized alveolar or dental stop • recommended spelling 0074 t̄ 02B2 j̄	01BF	p̄	LATIN LETTER WYNN = wen • Runic letter borrowed into Latin script • replaced by “w” in modern transcriptions of Old English • uppercase is 01F7 ƿ → 16B9 ƿ runic letter wunjo wyynn w
01AC	Ƨ	LATIN CAPITAL LETTER T WITH HOOK • a glyph variant with hook at the right also occurs	<b>African letters for clicks</b>		
01AD	Ƨ̂	LATIN SMALL LETTER T WITH HOOK • African	01C0	ǀ	LATIN LETTER DENTAL CLICK = pipe • Khoisan tradition • “c” in Zulu orthography → 002F / solidus → 007C ǀ vertical line → 0287 ǀ latin small letter turned t → 2223 ǀ divides
01AE	Ƨ̃	LATIN CAPITAL LETTER T WITH RETROFLEX HOOK • African • lowercase is 0288 Ƨ̃	01C1	ǁ	LATIN LETTER LATERAL CLICK = double pipe • Khoisan tradition • “x” in Zulu orthography → 0296 ǁ latin letter inverted glottal stop → 2225 ǁ parallel to
01AF	Ƨ̄	LATIN CAPITAL LETTER U WITH HORN ≡ 0055 U̇ 031B Ƨ̄			
01B0	Ƨ̂	LATIN SMALL LETTER U WITH HORN • Vietnamese ≡ 0075 u̇ 031B Ƨ̂			
01B1	Ƨ̃	LATIN CAPITAL LETTER UPSILON • African • typographically based on turned capital Greek omega • lowercase is 028A Ƨ̃ → 2127 Ƨ̃ inverted ohm sign			
01B2	Ƨ̄	LATIN CAPITAL LETTER V WITH HOOK = script v • African • lowercase is 028B Ƨ̄			
01B3	Ƨ̂	LATIN CAPITAL LETTER Y WITH HOOK • a glyph variant with hook at the left also occurs			
01B4	Ƨ̃	LATIN SMALL LETTER Y WITH HOOK • Bini, Esoko, and other Edo languages in West Africa			
01B5	Ƨ̄	LATIN CAPITAL LETTER Z WITH STROKE			

- 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 ċ 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 ђ 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 Ā LATIN CAPITAL LETTER A WITH CARON  
≡ 0041 A 030C ǎ
- 01CE ǎ LATIN SMALL LETTER A WITH CARON  
• Pinyin third tone  
≡ 0061 a 030C ǎ
- 01CF Ī LATIN CAPITAL LETTER I WITH CARON  
≡ 0049 I 030C ǐ
- 01D0 ǐ LATIN SMALL LETTER I WITH CARON  
• Pinyin third tone  
≡ 0069 i 030C ǐ
- 01D1 Ŏ LATIN CAPITAL LETTER O WITH CARON  
≡ 004F O 030C ǒ
- 01D2 ǒ LATIN SMALL LETTER O WITH CARON  
• Pinyin third tone  
≡ 006F o 030C ǒ
- 01D3 Ū LATIN CAPITAL LETTER U WITH CARON  
≡ 0055 U 030C ǔ
- 01D4 ǔ LATIN SMALL LETTER U WITH CARON  
• Pinyin third tone  
≡ 0075 u 030C ǔ
- 01D5 Ŭ LATIN CAPITAL LETTER U WITH DIAERESIS AND MACRON  
≡ 00DC Ü 0304 ̄

- 01D6 ũ LATIN SMALL LETTER U WITH DIAERESIS AND MACRON  
• Pinyin first tone  
≡ 00FC ü 0304 ̄
- 01D7 Ű 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 Ū LATIN CAPITAL LETTER U WITH DIAERESIS AND CARON  
≡ 00DC Ü 030C ̂
- 01DA ů LATIN SMALL LETTER U WITH DIAERESIS AND CARON  
• Pinyin third tone  
≡ 00FC ü 030C ̂
- 01DB Ű 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 ɐ  
• uppercase is 018E Ə  
→ 0259 ɐ latin small letter schwa
- 01DE Ä LATIN CAPITAL LETTER A WITH DIAERESIS AND MACRON  
≡ 00C4 Ä 0304 ̄
- 01DF Ǻ LATIN SMALL LETTER A WITH DIAERESIS AND MACRON  
• Livonian, Uralicist usage  
≡ 00E4 ä 0304 ̄
- 01E0 Å LATIN CAPITAL LETTER A WITH DOT ABOVE AND MACRON  
≡ 0226 Å 0304 ̇
- 01E1 ǻ LATIN SMALL LETTER A WITH DOT ABOVE AND MACRON  
• Uralicist usage  
≡ 0227 ǻ 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 Ğ LATIN CAPITAL LETTER G WITH STROKE  
01E5 ğ LATIN SMALL LETTER G WITH STROKE  
• Skolt Sami
- 01E6 Ğ LATIN CAPITAL LETTER G WITH CARON  
≡ 0047 G 030C ̂
- 01E7 ğ LATIN SMALL LETTER G WITH CARON  
• Skolt Sami  
→ 011F ğ latin small letter g with breve  
≡ 0067 g 030C ̂
- 01E8 Ķ LATIN CAPITAL LETTER K WITH CARON  
≡ 004B K 030C ̂

01E9	ķ	LATIN SMALL LETTER K WITH CARON • Skolt Sami ≡ 006B k 030C ǵ
01EA	Q̇	LATIN CAPITAL LETTER O WITH OGONEK ≡ 004F O 0328 ȯ
01EB	q̇	LATIN SMALL LETTER O WITH OGONEK • Sami, Iroquoian, Old Icelandic ≡ 006F o 0328 ȯ
01EC	Q̄	LATIN CAPITAL LETTER O WITH OGONEK AND MACRON ≡ 01EA Q̇ 0304 Ȯ
01ED	q̄	LATIN SMALL LETTER O WITH OGONEK AND MACRON • Old Icelandic ≡ 01EB q̇ 0304 Ȯ
01EE	Ž	LATIN CAPITAL LETTER EZH WITH CARON ≡ 01B7 Ž 030C ǰ
01EF	ž	LATIN SMALL LETTER EZH WITH CARON • Skolt Sami ≡ 0292 ž 030C ǰ
01F0	ĵ	LATIN SMALL LETTER J WITH CARON • IPA and many languages ≡ 006A j 030C ȥ
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	Ġ	LATIN CAPITAL LETTER G WITH ACUTE ≡ 0047 G 0301 ǵ
01F5	ġ	LATIN SMALL LETTER G WITH ACUTE • Macedonian and Serbian transliteration ≡ 0067 g 0301 ǵ
01F6	Hu	LATIN CAPITAL LETTER HWAIR • lowercase is 0195 hu
01F7	Ƶ	LATIN CAPITAL LETTER WYNN = wen • lowercase is 01BF p
01F8	Ñ	LATIN CAPITAL LETTER N WITH GRAVE ≡ 004E N 0300 ñ
01F9	ñ	LATIN SMALL LETTER N WITH GRAVE • Pinyin ≡ 006E n 0300 ñ
01FA	Å	LATIN CAPITAL LETTER A WITH RING ABOVE AND ACUTE ≡ 00C5 Å 0301 ǵ
01FB	á	LATIN SMALL LETTER A WITH RING ABOVE AND ACUTE ≡ 00E5 å 0301 ǵ
01FC	Æ	LATIN CAPITAL LETTER AE WITH ACUTE ≡ 00C6 Æ 0301 ǵ
01FD	æ	LATIN SMALL LETTER AE WITH ACUTE ≡ 00E6 æ 0301 ǵ
01FE	Ø	LATIN CAPITAL LETTER O WITH STROKE AND ACUTE ≡ 00D8 Ø 0301 ǵ
01FF	ø	LATIN SMALL LETTER O WITH STROKE AND ACUTE ≡ 00F8 ø 0301 ǵ

**Additions for Slovenian and Croatian**

0200	Ä	LATIN CAPITAL LETTER A WITH DOUBLE GRAVE ≡ 0041 A 030F ͂
0201	ä	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	Ê	LATIN CAPITAL LETTER E WITH DOUBLE GRAVE ≡ 0045 E 030F ͂
0205	ê	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	İ	LATIN CAPITAL LETTER I WITH DOUBLE GRAVE ≡ 0049 I 030F ͂
0209	ı	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	Ö	LATIN CAPITAL LETTER O WITH DOUBLE GRAVE ≡ 004F O 030F ͂
020D	ö	LATIN SMALL LETTER O WITH DOUBLE GRAVE ≡ 006F o 030F ͂
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 ͂
0211	ř	LATIN SMALL LETTER R WITH DOUBLE GRAVE ≡ 0072 r 030F ͂
0212	Ř	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 ͂
0215	ů	LATIN SMALL LETTER U WITH DOUBLE GRAVE ≡ 0075 u 030F ͂
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 **Ț** 0326 Ț
- 021B **ț** LATIN SMALL LETTER T WITH COMMA BELOW  
• Romanian  
→ 0163 **ț** latin small letter t with cedilla  
≡ 0074 **ț** 0326 Ț

**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 **Ĥ** 030C Ĥ
- 021F **ĥ** LATIN SMALL LETTER H WITH CARON  
• Finnish Romany  
≡ 0068 **ĥ** 030C Ĥ
- 0220 **ŋ̊** LATIN CAPITAL LETTER N WITH LONG RIGHT LEG  
• Lakota  
• lowercase is 019E **ŋ̊**
- 0221 **ɖ** LATIN SMALL LETTER D WITH CURL  
• phonetic use in Sinology
- 0222 **ɖ̥** LATIN CAPITAL LETTER OU
- 0223 **ɖ̥** LATIN SMALL LETTER OU  
• Algonquin, Huron  
→ 0038 **ɖ̥** digit eight
- 0224 **Ẑ** LATIN CAPITAL LETTER Z WITH HOOK
- 0225 **ẑ** LATIN SMALL LETTER Z WITH HOOK  
• Middle High German
- 0226 **Ȧ** LATIN CAPITAL LETTER A WITH DOT ABOVE  
≡ 0041 **Ȧ** 0307 Ȧ
- 0227 **ȧ** LATIN SMALL LETTER A WITH DOT ABOVE  
• Uralicist usage  
≡ 0061 **ȧ** 0307 Ȧ
- 0228 **Ɛ̣** LATIN CAPITAL LETTER E WITH CEDILLA  
≡ 0045 **Ɛ̣** 0327 Ɛ̣
- 0229 **ɛ̣** LATIN SMALL LETTER E WITH CEDILLA  
≡ 0065 **ɛ̣** 0327 Ɛ̣

**Additions for Livonian**

- 022A **Ō̇** LATIN CAPITAL LETTER O WITH DIAERESIS AND MACRON  
≡ 00D6 **Ō̇** 0304 Ō̇
- 022B **ō̇** LATIN SMALL LETTER O WITH DIAERESIS AND MACRON  
≡ 00F6 **ō̇** 0304 Ō̇
- 022C **Õ̇** LATIN CAPITAL LETTER O WITH TILDE AND MACRON  
≡ 00D5 **Õ̇** 0304 Ō̇
- 022D **õ̇** LATIN SMALL LETTER O WITH TILDE AND MACRON  
≡ 00F5 **õ̇** 0304 Ō̇
- 022E **Ȫ** LATIN CAPITAL LETTER O WITH DOT ABOVE  
≡ 004F **Ȫ** 0307 Ȫ
- 022F **ȫ** LATIN SMALL LETTER O WITH DOT ABOVE  
≡ 006F **ȫ** 0307 Ȫ
- 0230 **Ȭ** LATIN CAPITAL LETTER O WITH DOT ABOVE AND MACRON  
≡ 022E **Ȭ** 0304 Ō̇

- 0231 **Ȫ̇** LATIN SMALL LETTER O WITH DOT ABOVE AND MACRON  
≡ 022F **Ȫ̇** 0304 Ō̇
- 0232 **Ȳ** LATIN CAPITAL LETTER Y WITH MACRON  
≡ 0059 **Ȳ** 0304 Ȳ
- 0233 **ȳ** LATIN SMALL LETTER Y WITH MACRON  
• also Cornish  
≡ 0079 **ȳ** 0304 Ȳ

**Additions for Sinology**

- 0234 **ℓ** LATIN SMALL LETTER L WITH CURL
- 0235 **ℎ** LATIN SMALL LETTER N WITH CURL
- 0236 **ℭ** LATIN SMALL LETTER T WITH CURL

**Miscellaneous additions**

- 0237 **ȶ** LATIN SMALL LETTER DOTLESS J  
→ 1D6A5 **ȶ** mathematical italic small dotless j
- 0238 **Ʉb** LATIN SMALL LETTER DB DIGRAPH  
• used in Africanist linguistics
- 0239 **Ʉp** LATIN SMALL LETTER QP DIGRAPH  
• used in Africanist linguistics
- 023A **Ȧ̊** LATIN CAPITAL LETTER A WITH STROKE  
• Sencoten  
• lowercase is 2C65 **Ȧ̊**
- 023B **Ȧ̊̇** LATIN CAPITAL LETTER C WITH STROKE  
• Sencoten
- 023C **Ȧ̊̇** LATIN SMALL LETTER C WITH STROKE  
• used in Americanist linguistics
- 023D **Ł̊** LATIN CAPITAL LETTER L WITH BAR  
• Sencoten  
• lowercase is 019A **Ł̊**
- 023E **Ȧ̊̇** LATIN CAPITAL LETTER T WITH DIAGONAL STROKE  
• Sencoten  
• lowercase is 2C66 **Ȧ̊̇**
- 023F **Ȧ̊̇** LATIN SMALL LETTER S WITH SWASH TAIL  
• uppercase is 2C7E **Ȧ̊̇**
- 0240 **Ȧ̊̇** LATIN SMALL LETTER Z WITH SWASH TAIL  
• uppercase is 2C7F **Ȧ̊̇**
- 0241 **Ȧ̊̇** LATIN CAPITAL LETTER GLOTTAL STOP
- 0242 **Ȧ̊̇** LATIN SMALL LETTER GLOTTAL STOP  
• casing use in Chipewyan, Dogrib, Slavey (Canadian aboriginal orthographies)  
→ 0294 **Ȧ̊̇** latin letter glottal stop  
→ 02C0 **Ȧ̊̇** modifier letter glottal stop
- 0243 **Ȧ̊̇** LATIN CAPITAL LETTER B WITH STROKE  
• lowercase is 0180 **Ȧ̊̇**
- 0244 **Ȧ̊̇** LATIN CAPITAL LETTER U BAR  
• lowercase is 0289 **Ȧ̊̇**
- 0245 **Ȧ̊̇** LATIN CAPITAL LETTER TURNED V  
• lowercase is 028C **Ȧ̊̇**
- 0246 **Ȧ̊̇** LATIN CAPITAL LETTER E WITH STROKE
- 0247 **Ȧ̊̇** LATIN SMALL LETTER E WITH STROKE
- 0248 **Ȧ̊̇** LATIN CAPITAL LETTER J WITH STROKE
- 0249 **Ȧ̊̇** LATIN SMALL LETTER J WITH STROKE
- 024A **Ȧ̊̇** LATIN CAPITAL LETTER SMALL Q WITH HOOK TAIL
- 024B **Ȧ̊̇** LATIN SMALL LETTER Q WITH HOOK TAIL
- 024C **Ȧ̊̇** LATIN CAPITAL LETTER R WITH STROKE
- 024D **Ȧ̊̇** LATIN SMALL LETTER R WITH STROKE
- 024E **Ȧ̊̇** LATIN CAPITAL LETTER Y WITH STROKE
- 024F **Ȧ̊̇** LATIN SMALL LETTER Y WITH STROKE

	025	026	027	028	029	02A
0	ɐ 0250	ɟ 0260	ɥ 0270	ʀ 0280	ʐ 0290	ɸ 02A0
1	ɑ 0251	ɡ 0261	ɱ 0271	ɸ 0281	ʐ 0291	ʑ 02A1
2	ɒ 0252	ɠ 0262	ɲ 0272	ʂ 0282	ʑ 0292	ɸ 02A2
3	ɓ 0253	ɣ 0263	ɳ 0273	ʃ 0283	ʒ 0293	ɸ 02A3
4	ɔ 0254	ɤ 0264	ɴ 0274	ʒ 0284	ʔ 0294	ɸ 02A4
5	ɛ 0255	ɥ 0265	ɵ 0275	ɺ 0285	ɸ 0295	ɸ 02A5
6	ɖ 0256	ɦ 0266	æ 0276	ɹ 0286	ɻ 0296	ɸ 02A6
7	ɗ 0257	ɧ 0267	ω 0277	ɽ 0287	ɸ 0297	ɸ 02A7
8	ə 0258	ɨ 0268	ϕ 0278	ɽ 0288	⊙ 0298	ɸ 02A8
9	ə 0259	ɺ 0269	ɹ 0279	ɸ 0289	ɸ 0299	ɸ 02A9
A	ɸ 025A	ɹ 026A	ɹ 027A	ɸ 028A	ɸ 029A	ɸ 02AA
B	ɸ 025B	ɸ 026B	ɸ 027B	ɸ 028B	ɸ 029B	ɸ 02AB
C	ɸ 025C	ɸ 026C	ɸ 027C	ɸ 028C	ɸ 029C	ɸ 02AC
D	ɸ 025D	ɸ 026D	ɸ 027D	ɸ 028D	ɸ 029D	ɸ 02AD
E	ɸ 025E	ɸ 026E	ɸ 027E	ɸ 028E	ɸ 029E	ɸ 02AE
F	ɸ 025F	ɸ 026F	ɸ 027F	ɸ 028F	ɸ 029F	ɸ 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 **ç** 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 **ɐ** **LATIN SMALL LETTER TURNED A**  
 • low central unrounded vowel  
 • uppercase is 2C6F **Ʋ**
- 0251 **ɑ** **LATIN SMALL LETTER ALPHA**  
 = latin small letter script a (1.0)  
 • low back unrounded vowel  
 • uppercase is 2C6D **Ɑ**  
 → 03B1 **α** greek small letter alpha
- 0252 **ɒ** **LATIN SMALL LETTER TURNED ALPHA**  
 • low back rounded vowel  
 • uppercase is 2C70 **Ɔ**
- 0253 **ɸ** **LATIN SMALL LETTER B WITH HOOK**  
 • implosive bilabial stop  
 • Pan-Nigerian alphabet  
 • uppercase is 0181 **Ɓ**
- 0254 **ɔ** **LATIN SMALL LETTER OPEN O**  
 • typographically a turned c  
 • lower-mid back rounded vowel  
 • uppercase is 0186 **Ɔ**
- 0255 **ç** **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  
 • uppercase is 0189 **Ɗ**
- 0257 **ɗ** **LATIN SMALL LETTER D WITH HOOK**  
 • implosive dental or alveolar stop  
 • Ewe, Pan-Nigerian alphabet  
 • uppercase is 018A **Ɗ**
- 0258 **ɘ** **LATIN SMALL LETTER REVERSED E**  
 • upper-mid central unrounded vowel
- 0259 **ə** **LATIN SMALL LETTER SCHWA**  
 • mid-central unrounded vowel  
 • uppercase is 018F **Ə**  
 • variant uppercase form 018E **Ǝ** is associated with 01DD **ə**  
 → 01DD **ə** latin small letter turned e  
 → 04D9 **ә** cyrillic small letter schwa
- 025A **æ̃** **LATIN SMALL LETTER SCHWA WITH HOOK**  
 • rhotacized schwa
- 025B **ɛ** **LATIN SMALL LETTER OPEN E**  
 = epsilon  
 • lower-mid front unrounded vowel  
 • uppercase is 0190 **Ǝ**  
 → 03B5 **ε** greek small letter epsilon
- 025C **ɜ** **LATIN SMALL LETTER REVERSED OPEN E**  
 • lower-mid central unrounded vowel
- 025D **ɜ̃** **LATIN SMALL LETTER REVERSED OPEN E WITH HOOK**  
 • rhotacized lower-mid central vowel
- 025E **ɞ** **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 **ɢ**
- 0260 **ɠ** **LATIN SMALL LETTER G WITH HOOK**  
 • implosive velar stop  
 • uppercase is 0193 **Ƒ**
- 0261 **ɡ** **LATIN SMALL LETTER SCRIPT G**  
 • voiced velar stop  
 → 0067 **g** latin small letter g
- 0262 **Ḡ** **LATIN LETTER SMALL CAPITAL G**  
 • voiced uvular stop
- 0263 **ɣ** **LATIN SMALL LETTER GAMMA**  
 • voiced velar fricative  
 • uppercase is 0194 **Ƴ**  
 → 03B3 **γ** greek small letter gamma
- 0264 **ɣ̃** **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 **ɦ̃** **LATIN SMALL LETTER HENG WITH HOOK**  
 • voiceless coarticulated velar and palatoalveolar fricative  
 • “tj” or “kj” or “sj” in some Swedish dialects
- 0268 **İ̇** **LATIN SMALL LETTER I WITH STROKE**  
 = barred i, i bar  
 • high central unrounded vowel  
 • uppercase is 0197 **Ƭ**  
 • ISO 6438 gives lowercase of 0197 as 026A, not 0268
- 0269 **ɪ** **LATIN SMALL LETTER IOTA**  
 • semi-high front unrounded vowel  
 • obsoleted by IPA in 1989  
 • preferred use is 026A **ɪ** latin letter small capital i  
 • uppercase is 0196 **Ƭ**  
 → 03B9 **ι** greek small letter iota
- 026A **ɪ** **LATIN LETTER SMALL CAPITAL I**  
 • semi-high front unrounded vowel  
 • preferred IPA alternate for 0269 **ɪ**  
 • uppercase is 0197 **Ƭ**
- 026B **ɬ** **LATIN SMALL LETTER L WITH MIDDLE TILDE**  
 • velarized voiced alveolar lateral approximant  
 • uppercase is 2C62 **Ƭ**
- 026C **ɭ** **LATIN SMALL LETTER L WITH BELT**  
 • voiceless alveolar lateral fricative

026D	l	<b>LATIN SMALL LETTER L WITH RETROFLEX HOOK</b> <ul style="list-style-type: none"><li>• voiced retroflex lateral</li></ul>	027F	ɭ	<b>LATIN SMALL LETTER REVERSED R WITH FISHHOOK</b> <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 z 0329 ɸ</li><li>• preferred presentation is with a descender</li></ul>
026E	ɮ	<b>LATIN SMALL LETTER LEZH</b> <ul style="list-style-type: none"><li>• voiced lateral fricative</li><li>• “dhl” in Zulu orthography</li></ul>	0280	ʀ	<b>LATIN LETTER SMALL CAPITAL R</b> <ul style="list-style-type: none"><li>• voiced uvular trill</li><li>• Germanic, Old Norse</li><li>• uppercase is 01A6 R</li></ul>
026F	ɹ	<b>LATIN SMALL LETTER TURNED M</b> <ul style="list-style-type: none"><li>• high back unrounded vowel</li><li>• uppercase is 019C Ƶ</li></ul>	0281	ɻ	<b>LATIN LETTER SMALL CAPITAL INVERTED R</b> <ul style="list-style-type: none"><li>• voiced uvular fricative or approximant</li><li>→ 02B6 ɻ modifier letter small capital inverted r</li></ul>
0270	ɻ	<b>LATIN SMALL LETTER TURNED M WITH LONG LEG</b> <ul style="list-style-type: none"><li>• voiced velar approximant</li></ul>	0282	ʂ	<b>LATIN SMALL LETTER S WITH HOOK</b> <ul style="list-style-type: none"><li>• voiceless retroflex fricative</li></ul>
0271	ɱ	<b>LATIN SMALL LETTER M WITH HOOK</b> <ul style="list-style-type: none"><li>• voiced labiodental nasal</li><li>• uppercase is 2C6E Ɯ</li></ul>	0283	ʃ	<b>LATIN SMALL LETTER ESH</b> <ul style="list-style-type: none"><li>• voiceless postalveolar fricative</li><li>• uppercase is 01A9 Σ</li><li>→ 222B ƒ integral</li></ul>
0272	ɲ	<b>LATIN SMALL LETTER N WITH LEFT HOOK</b> <ul style="list-style-type: none"><li>• voiced palatal nasal</li><li>• uppercase is 019D Ɲ</li></ul>	0284	ɣ	<b>LATIN SMALL LETTER DOTLESS J WITH STROKE AND HOOK</b> <ul style="list-style-type: none"><li>• implosive palatal stop</li><li>• typographically based on 025F ɟ, not on 0283 ʃ</li></ul>
0273	ɳ	<b>LATIN SMALL LETTER N WITH RETROFLEX HOOK</b> <ul style="list-style-type: none"><li>• voiced retroflex nasal</li></ul>	0285	ɥ	<b>LATIN SMALL LETTER SQUAT REVERSED ESH</b> <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 ɹ 0329 ɸ</li><li>• in origin 027F ɭ plus the retroflex hook 0322 ɹ, despite its name</li><li>• preferred presentation is with a descender</li></ul>
0274	ɺ	<b>LATIN LETTER SMALL CAPITAL N</b> <ul style="list-style-type: none"><li>• voiced uvular nasal</li></ul>	0286	ɣ̥	<b>LATIN SMALL LETTER ESH WITH CURL</b> <ul style="list-style-type: none"><li>• palatalized voiceless postalveolar fricative</li><li>• suggested spelling - 0283 ʃ 02B2 ɣ̥</li></ul>
0275	ɵ	<b>LATIN SMALL LETTER BARRED O</b> <ul style="list-style-type: none"><li>= o bar</li><li>• rounded mid-central vowel, i.e. rounded schwa</li><li>• uppercase is 019F Θ</li><li>→ 03B8 θ greek small letter theta</li><li>→ 0473 Ө cyrillic small letter fita</li><li>→ 04E9 Ө cyrillic small letter barred o</li></ul>	0287	ɰ	<b>LATIN SMALL LETTER TURNED T</b> <ul style="list-style-type: none"><li>• dental click (sound of “tsk tsk”)</li><li>→ 01C0 ɰ latin letter dental click</li></ul>
0276	œ	<b>LATIN LETTER SMALL CAPITAL OE</b> <ul style="list-style-type: none"><li>• low front rounded vowel</li><li>→ 0153 œ latin small ligature oe</li></ul>	0288	ɭ	<b>LATIN SMALL LETTER T WITH RETROFLEX HOOK</b> <ul style="list-style-type: none"><li>• voiceless retroflex stop</li><li>• uppercase is 01AE Ƨ</li></ul>
0277	ω	<b>LATIN SMALL LETTER CLOSED OMEGA</b> <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 ɯ latin small letter upsilon</li></ul>	0289	ɯ	<b>LATIN SMALL LETTER U BAR</b> <ul style="list-style-type: none"><li>• high central rounded vowel</li><li>• uppercase is 0244 Ʊ</li></ul>
0278	φ	<b>LATIN SMALL LETTER PHI</b> <ul style="list-style-type: none"><li>• voiceless bilabial fricative</li><li>→ 03C6 ϕ greek small letter phi</li></ul>	028A	ɯ	<b>LATIN SMALL LETTER UPSILON</b> <ul style="list-style-type: none"><li>• semi-high back rounded vowel</li><li>• preferred IPA alternate to 0277 ω</li><li>• uppercase is 01B1 Ʋ</li><li>→ 03C5 υ greek small letter upsilon</li></ul>
0279	ɿ	<b>LATIN SMALL LETTER TURNED R</b> <ul style="list-style-type: none"><li>• voiced alveolar approximant</li><li>→ 02B4 ɿ modifier letter small turned r</li></ul>	028B	ɰ	<b>LATIN SMALL LETTER V WITH HOOK</b> <ul style="list-style-type: none"><li>= latin small letter script v (1.0)</li><li>• voiced labiodental approximant</li><li>• uppercase is 01B2 Ʋ</li><li>→ 03C5 υ greek small letter upsilon</li></ul>
027A	ɿ	<b>LATIN SMALL LETTER TURNED R WITH LONG LEG</b> <ul style="list-style-type: none"><li>• voiced lateral flap</li></ul>			
027B	ɿ	<b>LATIN SMALL LETTER TURNED R WITH HOOK</b> <ul style="list-style-type: none"><li>• voiced retroflex approximant</li><li>→ 02B5 ɿ modifier letter small turned r with hook</li></ul>			
027C	ɿ	<b>LATIN SMALL LETTER R WITH LONG LEG</b> <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 ř in Czech</li><li>• preferred phonetic representation for Czech is 0072 ɿ 031D ɿ</li><li>• in current use in Gaelic types (as glyph variant of 0072 ɿ)</li></ul>			
027D	ɿ	<b>LATIN SMALL LETTER R WITH TAIL</b> <ul style="list-style-type: none"><li>• voiced retroflex flap</li><li>• uppercase is 2C64 Ƨ</li></ul>			
027E	ɿ	<b>LATIN SMALL LETTER R WITH FISHHOOK</b> <ul style="list-style-type: none"><li>• voiced alveolar flap or tap</li></ul>			



028C	Λ	<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 Λ caret → 2227 Λ logical and
028D	ʌ	<b>LATIN SMALL LETTER TURNED W</b> • voiceless rounded labiovelar approximant
028E	ʎ	<b>LATIN SMALL LETTER TURNED Y</b> • voiced lateral approximant
028F	ʏ	<b>LATIN LETTER SMALL CAPITAL Y</b> • semi-high front rounded vowel
0290	ʐ	<b>LATIN SMALL LETTER Z WITH RETROFLEX HOOK</b> • voiced retroflex fricative
0291	ʑ	<b>LATIN SMALL LETTER Z WITH CURL</b> • voiced alveolo-palatal laminal fricative • sound spelled with 017A ʑ in Polish
0292	Ʒ	<b>LATIN SMALL LETTER EZH</b> = dram • voiced postalveolar fricative • mistakenly named yogh in Unicode 1.0 • uppercase is 01B7 Ʒ • Skolt Sami → 021D Ʒ latin small letter yogh → 04E1 Ʒ cyrillic small letter abkhassian dze → 2125 Ʒ ounce sign
0293	ʒ	<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	ǀ	<b>LATIN LETTER INVERTED GLOTTAL STOP</b> • lateral click → 01C1 ǀ latin letter lateral click
0297	ǃ	<b>LATIN LETTER STRETCHED C</b> • palatal (or alveolar) click → 01C3 ǃ latin letter retroflex click → 2201 ǃ complement
0298	⦿	<b>LATIN LETTER BILABIAL CLICK</b> = bullseye → 2299 ⦿ circled dot operator
0299	ɸ	<b>LATIN LETTER SMALL CAPITAL B</b> • bilabial trill
029A	ə̞	<b>LATIN SMALL LETTER CLOSED OPEN E</b> = closed epsilon • lower-mid front rounded vowel • non-IPA alternate for the preferred 0153 œ
029B	ɢ	<b>LATIN LETTER SMALL CAPITAL G WITH HOOK</b> • voiced uvular implosive
029C	ħ	<b>LATIN LETTER SMALL CAPITAL H</b> • voiceless epiglottal fricative

029D	ɶ	<b>LATIN SMALL LETTER J WITH CROSSED-TAIL</b> • voiced palatal fricative
029E	ɤ	<b>LATIN SMALL LETTER TURNED K</b> • proposed for velar click • withdrawn by IPA in 1970
029F	ɹ	<b>LATIN LETTER SMALL CAPITAL L</b> • velar lateral approximant
02A0	q̥	<b>LATIN SMALL LETTER Q WITH HOOK</b> • voiceless uvular implosive
02A1	ʀ	<b>LATIN LETTER GLOTTAL STOP WITH STROKE</b> • voiced epiglottal stop
02A2	ʁ	<b>LATIN LETTER REVERSED GLOTTAL STOP WITH STROKE</b> • voiced epiglottal fricative
02A3	ɖ	<b>LATIN SMALL LETTER DZ DIGRAPH</b> • voiced dental affricate
02A4	ɗ	<b>LATIN SMALL LETTER DEZH DIGRAPH</b> • voiced postalveolar affricate
02A5	ɗ͡ʒ	<b>LATIN SMALL LETTER DZ DIGRAPH WITH CURL</b> • voiced alveolo-palatal affricate
02A6	ʈ͡ʂ	<b>LATIN SMALL LETTER TS DIGRAPH</b> • voiceless dental affricate
02A7	ʈ͡ʂ͡ʃ	<b>LATIN SMALL LETTER TESH DIGRAPH</b> • voiceless postalveolar affricate
02A8	ʈ͡ʂ͡ʃ͡ʒ	<b>LATIN SMALL LETTER TC DIGRAPH WITH CURL</b> • voiceless alveolo-palatal affricate

**IPA characters for disordered speech**

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

**Additions for Sinology**

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

	02B	02C	02D	02E	02F
0	h 02B0	ʔ 02C0	˙ 02D0	Ÿ 02E0	ˆ 02F0
1	ĥ 02B1	Ƹ 02C1	˘ 02D1	ı 02E1	˂ 02F1
2	j 02B2	˂ 02C2	˘ 02D2	s 02E2	˃ 02F2
3	r 02B3	˃ 02C3	˘ 02D3	X 02E3	˚ 02F3
4	ı 02B4	ˆ 02C4	⊥ 02D4	Ÿ 02E4	˘ 02F4
5	ı 02B5	˘ 02C5	τ 02D5	⌋ 02E5	˘ 02F5
6	Ƶ 02B6	ˆ 02C6	÷ 02D6	⌋ 02E6	˘ 02F6
7	W 02B7	˘ 02C7	– 02D7	⌋ 02E7	˘ 02F7
8	y 02B8	˘ 02C8	˘ 02D8	⌋ 02E8	˘ 02F8
9	/ 02B9	– 02C9	• 02D9	⌋ 02E9	˘ 02F9
A	˘ 02BA	˘ 02CA	˚ 02DA	⌋ 02EA	˘ 02FA
B	˘ 02BB	˘ 02CB	˘ 02DB	⌋ 02EB	˘ 02FB
C	˘ 02BC	˘ 02CC	˘ 02DC	˘ 02EC	˘ 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>q</sup> combining diaeresis below  
 ≈ <super> 0266 <sup>fi</sup>
- 02B2 <sup>j</sup> **MODIFIER LETTER SMALL J**  
 • palatalization  
 → 0321 <sup>g</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>ɻ</sup> **MODIFIER LETTER SMALL CAPITAL INVERTED R**  
 • preceding four used for r-coloring or r-offglides  
 → 0281 <sup>ɻ</sup> latin letter small capital inverted r  
 ≈ <super> 0281 <sup>ɻ</sup>
- 02B7 <sup>w</sup> **MODIFIER LETTER SMALL W**  
 • labialization  
 → 032B <sup>q</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>ˈ</sup> **MODIFIER LETTER PRIME**  
 • primary stress, emphasis  
 • transliteration of mĵagkij znak (Cyrillic soft sign: palatalization)  
 → 0027 <sup>ˈ</sup> apostrophe  
 → 00B4 <sup>ˈ</sup> acute accent  
 → 02CA <sup>ˈ</sup> modifier letter acute accent  
 → 0301 <sup>ˆ</sup> combining acute accent  
 → 0374 <sup>ˈ</sup> greek numeral sign  
 → 2032 <sup>ˈ</sup> prime
- 02BA <sup>ˈˈ</sup> **MODIFIER LETTER DOUBLE PRIME**  
 • exaggerated stress, contrastive stress  
 • transliteration of tverdyj znak (Cyrillic hard sign: no palatalization)  
 → 0022 <sup>ˆˆ</sup> quotation mark  
 → 030B <sup>ˆˆ</sup> combining double acute accent  
 → 2033 <sup>ˆˆ</sup> double prime
- 02BB <sup>ˆ</sup> **MODIFIER LETTER TURNED COMMA**  
 • typographical alternate for 02BD <sup>ˆ</sup> or 02BF <sup>ˆ</sup>  
 • used in Hawaiʻian orthography as ʻokina (glottal stop)  
 → 0312 <sup>ˆ</sup> combining turned comma above  
 → 07F5 <sup>ˆ</sup> nko low tone apostrophe  
 → 2018 <sup>ˆ</sup> left single quotation mark
- 02BC <sup>ˈ</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>ˈ</sup> is the preferred character for a punctuation apostrophe  
 → 0027 <sup>ˈ</sup> apostrophe  
 → 0313 <sup>ˆ</sup> combining comma above  
 → 0315 <sup>ˆ</sup> combining comma above right  
 → 055A <sup>ˈ</sup> armenian apostrophe  
 → 07F4 <sup>ˈ</sup> nko high tone apostrophe  
 → 1FBF <sup>ˈ</sup> greek psili  
 → 2019 <sup>ˈ</sup> right single quotation mark
- 02BD <sup>ˆ</sup> **MODIFIER LETTER REVERSED COMMA**  
 • weak aspiration  
 → 0314 <sup>ˆ</sup> combining reversed comma above  
 → 0559 <sup>ˆ</sup> armenian modifier letter left half ring  
 → 1FFE <sup>ˆ</sup> greek dasia  
 → 201B <sup>ˆ</sup> single high-reversed-9 quotation mark
- 02BE <sup>ˈ</sup> **MODIFIER LETTER RIGHT HALF RING**  
 • transliteration of Arabic hamza (glottal stop)  
 → 055A <sup>ˈ</sup> armenian apostrophe  
 → 0621 <sup>ˆ</sup> arabic letter hamza
- 02BF <sup>ˆ</sup> **MODIFIER LETTER LEFT HALF RING**  
 • transliteration of Arabic ain (voiced pharyngeal fricative)  
 → 0559 <sup>ˆ</sup> armenian modifier letter left half ring  
 → 0639 <sup>ˆ</sup> arabic letter ain
- 02C0 <sup>ˀ</sup> **MODIFIER LETTER GLOTTAL STOP**  
 • ejective or glottalized  
 • typographical alternate for 02BC <sup>ˈ</sup> or 02BE <sup>ˈ</sup>  
 → 0294 <sup>ˀ</sup> latin letter glottal stop  
 → 0309 <sup>ˆ</sup> combining hook above
- 02C1 <sup>ˆ</sup> **MODIFIER LETTER REVERSED GLOTTAL STOP**  
 • typographical alternate for 02BF <sup>ˆ</sup>  
 → 0295 <sup>ˆ</sup> latin letter pharyngeal voiced fricative
- 02C2 <sup><</sup> **MODIFIER LETTER LEFT ARROWHEAD**  
 • fronted articulation
- 02C3 <sup>></sup> **MODIFIER LETTER RIGHT ARROWHEAD**  
 • backed articulation
- 02C4 <sup>^</sup> **MODIFIER LETTER UP ARROWHEAD**  
 • raised articulation  
 → 005E <sup>^</sup> circumflex accent  
 → 2303 <sup>^</sup> up arrowhead
- 02C5 <sup>v</sup> **MODIFIER LETTER DOWN ARROWHEAD**  
 • lowered articulation
- 02C6 <sup>^</sup> **MODIFIER LETTER CIRCUMFLEX ACCENT**  
 • rising-falling tone, falling tone, secondary stress, etc.  
 → 005E <sup>^</sup> circumflex accent  
 → 0302 <sup>ˆ</sup> combining circumflex accent  
 → A788 <sup>ˆ</sup> modifier letter low circumflex accent
- 02C7 <sup>˘</sup> **CARON**  
 = hacek  
 • falling-rising tone  
 • Mandarin Chinese third tone  
 → 030C <sup>˘</sup> combining caron

02C8	'	<b>MODIFIER LETTER VERTICAL LINE</b> <ul style="list-style-type: none"><li>• primary stress, downstep</li><li>• precedes letter or syllable modified</li></ul> → 0027 ' apostrophe → 030D ◌ combining vertical line above
02C9	ˉ	<b>MODIFIER LETTER MACRON</b> <ul style="list-style-type: none"><li>• high level tone</li><li>• precedes or follows letter or syllable modified</li><li>• Mandarin Chinese first tone</li></ul> → 00AF ˉ macron → 0304 ◌ combining macron
02CA	ˊ	<b>MODIFIER LETTER ACUTE ACCENT</b> <ul style="list-style-type: none"><li>• high-rising tone (IPA), high tone, primary stress</li><li>• Mandarin Chinese second tone</li></ul> → 00B4 ˊ acute accent → 02B9 ˊ modifier letter prime → 0301 ◌ combining acute accent → 0374 ˊ greek numeral sign → 055B ˊ armenian emphasis mark
02CB	ˋ	<b>MODIFIER LETTER GRAVE ACCENT</b> <ul style="list-style-type: none"><li>• high-falling tone (IPA), low tone, secondary or tertiary stress</li><li>• Mandarin Chinese fourth tone</li></ul> → 0060 ˋ grave accent → 0300 ◌ combining grave accent → 055D ˋ armenian comma
02CC	ˌ	<b>MODIFIER LETTER LOW VERTICAL LINE</b> <ul style="list-style-type: none"><li>• secondary stress</li><li>• precedes letter or syllable modified</li></ul> → 0329 ◌ combining vertical line below
02CD	˘	<b>MODIFIER LETTER LOW MACRON</b> <ul style="list-style-type: none"><li>• low level tone</li></ul> → 005F ˘ low line → 0331 ◌ combining macron below
02CE	ˋ	<b>MODIFIER LETTER LOW GRAVE ACCENT</b> <ul style="list-style-type: none"><li>• low-falling tone</li></ul>
02CF	ˊ	<b>MODIFIER LETTER LOW ACUTE ACCENT</b> <ul style="list-style-type: none"><li>• low-rising tone</li></ul> → 0375 ˊ greek lower numeral sign
02D0	:	<b>MODIFIER LETTER TRIANGULAR COLON</b> <ul style="list-style-type: none"><li>• length mark</li></ul> → 003A : colon
02D1	˙	<b>MODIFIER LETTER HALF TRIANGULAR COLON</b> <ul style="list-style-type: none"><li>• half-length mark</li></ul> → 00B7 ˙ middle dot
02D2	◌̥	<b>MODIFIER LETTER CENTRED RIGHT HALF RING</b> <ul style="list-style-type: none"><li>• more rounded articulation</li></ul>
02D3	◌̜	<b>MODIFIER LETTER CENTRED LEFT HALF RING</b> <ul style="list-style-type: none"><li>• less rounded articulation</li></ul>
02D4	◌̩	<b>MODIFIER LETTER UP TACK</b> <ul style="list-style-type: none"><li>• vowel raising or closing</li></ul> → 031D ◌ combining up tack below → 0323 ◌ combining dot below
02D5	◌̹	<b>MODIFIER LETTER DOWN TACK</b> <ul style="list-style-type: none"><li>• vowel lowering or opening</li></ul> → 031C ◌ combining left half ring below → 031E ◌ combining down tack below
02D6	+	<b>MODIFIER LETTER PLUS SIGN</b> <ul style="list-style-type: none"><li>• advanced or fronted articulation</li></ul> → 031F ◌ combining plus sign below

02D7	-	<b>MODIFIER LETTER MINUS SIGN</b> <ul style="list-style-type: none"><li>• retracted or backed articulation</li><li>• glyph may have small end-serifs</li></ul> → 0320 ◌ combining minus sign below → 2212 − minus sign
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**Spacing clones of diacritics**

02D8	◌̘	<b>BREVE</b> → 0306 ◌ combining breve ≈ 0020 <span style="border: 1px dashed black; padding: 0 2px;">SP</span> 0306 ◌̘
02D9	◌̣	<b>DOT ABOVE</b> <ul style="list-style-type: none"><li>• Mandarin Chinese fifth tone (light or neutral)</li></ul> → 0307 ◌ combining dot above ≈ 0020 <span style="border: 1px dashed black; padding: 0 2px;">SP</span> 0307 ◌̣
02DA	◌̤	<b>RING ABOVE</b> → 00B0 ◌ degree sign → 030A ◌ combining ring above ≈ 0020 <span style="border: 1px dashed black; padding: 0 2px;">SP</span> 030A ◌̤
02DB	◌̥	<b>OGONEK</b> → 0328 ◌ combining ogonek ≈ 0020 <span style="border: 1px dashed black; padding: 0 2px;">SP</span> 0328 ◌̥
02DC	◌̧	<b>SMALL TILDE</b> → 007E ~ tilde → 0303 ◌ combining tilde → 223C ~ tilde operator ≈ 0020 <span style="border: 1px dashed black; padding: 0 2px;">SP</span> 0303 ◌̧
02DD	◌̨	<b>DOUBLE ACUTE ACCENT</b> → 030B ◌ combining double acute accent ≈ 0020 <span style="border: 1px dashed black; padding: 0 2px;">SP</span> 030B ◌̨

**Additions based on 1989 IPA**

02DE	◌̦	<b>MODIFIER LETTER RHOTIC HOOK</b> <ul style="list-style-type: none"><li>• rhotacization in vowel</li><li>• often ligated: 025A ɹ̥ = 0259 ɹ + 02DE ◌̦; 025D ɹ̥ = 025C ɹ + 02DE ◌̦</li></ul>
02DF	×	<b>MODIFIER LETTER CROSS ACCENT</b> <ul style="list-style-type: none"><li>• Swedish grave accent</li></ul>
02E0	ɣ	<b>MODIFIER LETTER SMALL GAMMA</b> <ul style="list-style-type: none"><li>• these modifier letters are occasionally used in transcription of affricates</li></ul> ≈ <super> 0263 ɣ
02E1	l̥	<b>MODIFIER LETTER SMALL L</b> ≈ <super> 006C l̥
02E2	s̥	<b>MODIFIER LETTER SMALL S</b> ≈ <super> 0073 s̥
02E3	x̥	<b>MODIFIER LETTER SMALL X</b> ≈ <super> 0078 x̥
02E4	ɰ̥	<b>MODIFIER LETTER SMALL REVERSED GLOTTAL STOP</b> ≈ <super> 0295 ɰ̥

**Tone letters**

02E5	◌̎	<b>MODIFIER LETTER EXTRA-HIGH TONE BAR</b>
02E6	◌̍	<b>MODIFIER LETTER HIGH TONE BAR</b>
02E7	◌̌	<b>MODIFIER LETTER MID TONE BAR</b>
02E8	◌̋	<b>MODIFIER LETTER LOW TONE BAR</b>
02E9	◌̊	<b>MODIFIER LETTER EXTRA-LOW TONE BAR</b>

**Extended Bopomofo tone marks**

02EA	◌̏	<b>MODIFIER LETTER YIN DEPARTING TONE MARK</b>
02EB	◌̐	<b>MODIFIER LETTER YANG DEPARTING TONE MARK</b>

**IPA modifiers**

02EC	◌̑	<b>MODIFIER LETTER VOICING</b>
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02ED = MODIFIER LETTER UNASPIRATED

**Other modifier letter**

02EE ” MODIFIER LETTER DOUBLE APOSTROPHE  
 • Nenets

**UPA modifiers**

02EF ˇ MODIFIER LETTER LOW DOWN ARROWHEAD  
 02F0 ˆ MODIFIER LETTER LOW UP ARROWHEAD  
 02F1 ˋ MODIFIER LETTER LOW LEFT ARROWHEAD  
 02F2 ˊ 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 ː MODIFIER LETTER RAISED COLON  
 02F9 ˆ MODIFIER LETTER BEGIN HIGH TONE  
 02FA ˆ MODIFIER LETTER END HIGH TONE  
 02FB ˋ MODIFIER LETTER BEGIN LOW TONE  
 02FC ˋ MODIFIER LETTER END LOW TONE  
 02FD ˉ MODIFIER LETTER SHELF  
 02FE ˉ 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	◌̀	<b>COMBINING GRAVE ACCENT</b> = Greek varia → 0060 ` grave accent → 02CB ` modifier letter grave accent
0301	◌́	<b>COMBINING ACUTE ACCENT</b> = stress mark = Greek oxia, tonos → 0027 ´ apostrophe → 00B4 ´ acute accent → 02B9 ´ modifier letter prime → 02CA ´ modifier letter acute accent → 0384 ´ greek tonos
0302	◌̂	<b>COMBINING CIRCUMFLEX ACCENT</b> = hat → 005E ^ circumflex accent → 02C6 ^ modifier letter circumflex accent
0303	◌̃	<b>COMBINING TILDE</b> • IPA: nasalization • Vietnamese tone mark → 007E ~ tilde → 02DC ~ small tilde
0304	◌̄	<b>COMBINING MACRON</b> = long • distinguish from the following → 00AF ¯ macron → 02C9 ¯ modifier letter macron
0305	◌̅	<b>COMBINING OVERLINE</b> = overscore, vinculum • connects on left and right → 00AF ¯ macron
0306	◌̆	<b>COMBINING BREVE</b> = short = Greek vrachy → 02D8 ˘ breve → A67C ˘ combining cyrillic kavyka
0307	◌̇	<b>COMBINING DOT ABOVE</b> = derivative (Newtonian notation) • IPA (withdrawn in 1976): palatalization → 02D9 ˙ dot above
0308	◌̈	<b>COMBINING DIAERESIS</b> = double dot above, umlaut = Greek dialytika = double derivative → 00A8 ¨ diaeresis
0309	◌̉	<b>COMBINING HOOK ABOVE</b> = hoi • kerns left or right of circumflex over vowels • Vietnamese tone mark → 02C0 ˊ modifier letter glottal stop
030A	◌̊	<b>COMBINING RING ABOVE</b> → 00B0 ° degree sign → 02DA ° ring above
030B	◌̋	<b>COMBINING DOUBLE ACUTE ACCENT</b> • Hungarian, Chuvash → 0022 " quotation mark → 02BA ¨ modifier letter double prime → 02DD ¨ double acute accent
030C	◌̌	<b>COMBINING CARON</b> = hacek, V above → 02C7 ˇ caron
030D	◌̍	<b>COMBINING VERTICAL LINE ABOVE</b> • this is not the Greek tonos • Marshallese → 02C8 ˊ modifier letter vertical line
030E	◌̎	<b>COMBINING DOUBLE VERTICAL LINE ABOVE</b> • Marshallese → 0022 " quotation mark
030F	◌̏	<b>COMBINING DOUBLE GRAVE ACCENT</b> • Serbian and Croatian poetics
0310	◌̐	<b>COMBINING CANDRABINDU</b> → 0901 ॐ devanagari sign candrabindu
0311	◌̑	<b>COMBINING INVERTED BREVE</b> → 0487 ̑ combining cyrillic pokrytie
0312	◌̒	<b>COMBINING TURNED COMMA ABOVE</b> = cedilla above • Latvian (but not used in decomposition) → 02BB ˆ modifier letter turned comma
0313	◌̓	<b>COMBINING COMMA ABOVE</b> = Greek psili, smooth breathing mark • Americanist: ejective or glottalization → 02BC ˊ modifier letter apostrophe → 0486 ̓ combining cyrillic psili pneumata → 055A ˊ armenian apostrophe
0314	◌̔	<b>COMBINING REVERSED COMMA ABOVE</b> = Greek dasia, rough breathing mark → 02BD ˋ modifier letter reversed comma → 0485 ̔ combining cyrillic dasia pneumata → 0559 ˋ armenian modifier letter left half ring
0315	◌̕	<b>COMBINING COMMA ABOVE RIGHT</b> → 02BC ˊ modifier letter apostrophe
0316	◌̖	<b>COMBINING GRAVE ACCENT BELOW</b>
0317	◌̗	<b>COMBINING ACUTE ACCENT BELOW</b>
0318	◌̘	<b>COMBINING LEFT TACK BELOW</b>
0319	◌̙	<b>COMBINING RIGHT TACK BELOW</b>
031A	◌̚	<b>COMBINING LEFT ANGLE ABOVE</b> • IPA: unreleased stop
031B	◌̛	<b>COMBINING HORN</b> • Vietnamese
031C	◌̜	<b>COMBINING LEFT HALF RING BELOW</b> • IPA: open variety of vowel → 02D5 ˖ modifier letter down tack
031D	◌̝	<b>COMBINING UP TACK BELOW</b> • IPA: vowel raising or closing → 02D4 ˗ modifier letter up tack
031E	◌̞	<b>COMBINING DOWN TACK BELOW</b> • IPA: vowel lowering or opening → 02D5 ˖ modifier letter down tack
031F	◌̟	<b>COMBINING PLUS SIGN BELOW</b> • IPA: advanced or fronted articulation → 02D6 ˘ modifier letter plus sign
0320	◌̠	<b>COMBINING MINUS SIGN BELOW</b> • IPA: retracted or backed articulation • glyph may have small end-serifs → 02D7 ˙ modifier letter minus sign
0321	◌̡	<b>COMBINING PALATALIZED HOOK BELOW</b> • IPA: palatalization → 02B2 ˆ modifier letter small j
0322	◌̢	<b>COMBINING RETROFLEX HOOK BELOW</b> • 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 **Ͱ** latin capital letter half h
- 0371 **ͱ** GREEK SMALL LETTER HETA  
→ 2C76 **ͱ** latin small letter half h
- 0372 **Ͳ** GREEK CAPITAL LETTER ARCHAIC SAMPI
- 0373 **ͳ** GREEK SMALL LETTER ARCHAIC SAMPI

**Numeral signs**

- 0374 **ʹ** GREEK NUMERAL SIGN  
= dexia keraia  
• indicates numeric use of letters  
→ 02CA **ʹ** modifier letter acute accent  
≡ 02B9 **ʹ** modifier letter prime
- 0375 **͵** 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 **ͷ** GREEK SMALL LETTER PAMPHYLIAN DIGAMMA

**Iota subscript**

- 037A **͸** GREEK YPOGEGRAMMENI  
= iota subscript  
→ 0345 **͸** combining greek ypogegrammeni  
≈ 0020 **͸** 0345 **͸**

**Lowercase of editorial symbols**

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

**Punctuation**

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

**Spacing accent marks**

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

**Letter**

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

**Punctuation**

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

**Letters**

- 0388 **͂** GREEK CAPITAL LETTER EPSILON WITH TONOS  
≡ 0395 **͂** 0301 **͂**

- 0389 **̓** GREEK CAPITAL LETTER ETA WITH TONOS  
≡ 0397 **̓** 0301 **̓**

- 038A **̈́** GREEK CAPITAL LETTER IOTA WITH TONOS  
≡ 0399 **̈́** 0301 **̈́**

- 038B **ͅ** <reserved>

- 038C **͆** GREEK CAPITAL LETTER OMICRON WITH TONOS  
≡ 039F **͆** 0301 **͆**

- 038D **͇** <reserved>

- 038E **͈** GREEK CAPITAL LETTER UPSILON WITH TONOS  
≡ 03A5 **͈** 0301 **͈**

- 038F **͉** GREEK CAPITAL LETTER OMEGA WITH TONOS  
≡ 03A9 **͉** 0301 **͉**

- 0390 **͊** GREEK SMALL LETTER IOTA WITH DIALYTIKA AND TONOS  
≡ 03CA **͊** 0301 **͊**

- 0391 **͋** GREEK CAPITAL LETTER ALPHA

- 0392 **͌** GREEK CAPITAL LETTER BETA

- 0393 **͍** GREEK CAPITAL LETTER GAMMA  
= gamma function  
→ 213E **͍** double-struck capital gamma

- 0394 **͎** GREEK CAPITAL LETTER DELTA  
→ 2206 **͎** increment

- 0395 **͏** GREEK CAPITAL LETTER EPSILON

- 0396 **͐** GREEK CAPITAL LETTER ZETA

- 0397 **͑** GREEK CAPITAL LETTER ETA

- 0398 **͒** GREEK CAPITAL LETTER THETA

- 0399 **͓** GREEK CAPITAL LETTER IOTA  
= iota adscript

- 039A **͔** GREEK CAPITAL LETTER KAPPA

- 039B **͕** GREEK CAPITAL LETTER LAMDA

- 039C **͖** GREEK CAPITAL LETTER MU

- 039D **͗** GREEK CAPITAL LETTER NU

- 039E **͘** GREEK CAPITAL LETTER XI

- 039F **͙** GREEK CAPITAL LETTER OMICRON

- 03A0 **͚** GREEK CAPITAL LETTER PI  
→ 213F **͚** double-struck capital pi  
→ 220F **͚** n-ary product

- 03A1 **͛** GREEK CAPITAL LETTER RHO

- 03A2 **͜** <reserved>

- 03A3 **͝** GREEK CAPITAL LETTER SIGMA  
→ 01A9 **͝** latin capital letter esh  
→ 2211 **͝** n-ary summation

- 03A4 **͞** GREEK CAPITAL LETTER TAU

- 03A5 **͟** GREEK CAPITAL LETTER UPSILON

- 03A6 **͠** GREEK CAPITAL LETTER PHI

- 03A7 **͡** GREEK CAPITAL LETTER CHI

- 03A8 **͢** GREEK CAPITAL LETTER PSI

- 03A9 **ͣ** GREEK CAPITAL LETTER OMEGA  
→ 2126 **ͣ** ohm sign  
→ 2127 **ͣ** inverted ohm sign

- 03AA **ͤ** GREEK CAPITAL LETTER IOTA WITH DIALYTIKA  
≡ 0399 **ͤ** 0308 **ͤ**

- 03AB **ͥ** GREEK CAPITAL LETTER UPSILON WITH DIALYTIKA  
≡ 03A5 **ͥ** 0308 **ͥ**

- 03AC **ͦ** GREEK SMALL LETTER ALPHA WITH TONOS  
≡ 03B1 **ͦ** 0301 **ͦ**

- 03AD **ͧ** GREEK SMALL LETTER EPSILON WITH TONOS  
≡ 03B5 **ͧ** 0301 **ͧ**

- 03AE **ͨ** GREEK SMALL LETTER ETA WITH TONOS  
≡ 03B7 **ͨ** 0301 **ͨ**

03AF	í	GREEK SMALL LETTER IOTA WITH TONOS ≡ 03B9 ι 0301 ó
03B0	ὶ	GREEK SMALL LETTER UPSILON WITH DIALYTIKA AND TONOS ≡ 03CB ῖ 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 b 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 ѳ 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 ϣ 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 υ 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	Ϝ	GREEK CAPITAL KAI SYMBOL → 03D7 ϝ greek kai symbol
03D0	Ϟ	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	ϣ	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	ϕ	GREEK PHI SYMBOL • used as a technical symbol, with a stroked glyph • maps to “phi1” symbol entities ≈ 03C6 ϕ greek small letter phi
03D6	ϖ	GREEK PI SYMBOL = omega pi • used as a technical symbol • a variant of pi, looking like omega ≈ 03C0 π greek small letter pi
03D7	ϗ	GREEK KAI SYMBOL • used as an ampersand → 2CE4 ϛ coptic symbol kai

**Archaic letters**

03D8	Ϙ	GREEK LETTER ARCHAIC KOPPA
03D9	ϙ	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	Ϛ	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 Ϟ roman numeral six late form
03DB	ϛ	GREEK SMALL LETTER STIGMA → 03C2 ϣ greek small letter final sigma
03DC	Ϝ	GREEK LETTER DIGAMMA
03DD	ϝ	GREEK SMALL LETTER DIGAMMA • used as a symbol with a numeric value of 6
03DE	Ϟ	GREEK LETTER KOPPA
03DF	ϟ	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	Ϡ	GREEK LETTER SAMPI

- 03E1 ϳ 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 Ⲁ COPTIC CAPITAL LETTER SHEI  
 03E3 ⲁ COPTIC SMALL LETTER SHEI  
 03E4 Ⲃ COPTIC CAPITAL LETTER FEI  
 03E5 ⲃ COPTIC SMALL LETTER FEI  
 03E6 Ⲅ COPTIC CAPITAL LETTER KHEI  
 03E7 ⲅ COPTIC SMALL LETTER KHEI  
 03E8 Ⲇ COPTIC CAPITAL LETTER HORI  
 03E9 ⲇ COPTIC SMALL LETTER HORI  
 03EA Ⲉ COPTIC CAPITAL LETTER GANGIA  
 03EB ⲉ COPTIC SMALL LETTER GANGIA  
 03EC Ⲋ COPTIC CAPITAL LETTER SHIMA  
 03ED ⲋ COPTIC SMALL LETTER SHIMA  
 03EE Ⲍ COPTIC CAPITAL LETTER DEI  
 03EF ⲍ COPTIC SMALL LETTER DEI

#### Variant letterforms

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

#### Additional letter

- 03F3 j GREEK LETTER YOT

#### Variant letterforms and symbols

- 03F4 Θ GREEK CAPITAL THETA SYMBOL  
 → 0472 Θ cyrillic capital letter fita  
 ≈ 0398 Θ greek capital letter theta  
 03F5 ε GREEK LUNATE EPSILON SYMBOL  
 = straight epsilon  
 → 220A ε small element of  
 ≈ 03B5 ε greek small letter epsilon  
 03F6 ϵ GREEK REVERSED LUNATE EPSILON SYMBOL  
 = reversed straight epsilon  
 → 220D ϵ small contains as member

#### Additional archaic letters for Bactrian

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

#### Variant letterform

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

#### Archaic letters

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

#### Symbol

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

#### Editorial symbols

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

	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	Ѣ 0480	Г 0490	К 04A0	У 04B0	І 04C0	Ă 04D0	З 04E0	Ў 04F0
1	Ё 0401	Б 0411	С 0421	б 0431	с 0441	ё 0451	ѡ 0461	ѳ 0471	ѣ 0481	г 0491	к 04A1	у 04B1	Ѥ 04C1	ă 04D1	з 04E1	ў 04F1
2	Ѥ 0402	В 0412	Т 0422	в 0432	т 0442	ђ 0452	Ѥ 0462	Ө 0472	џ 0482	Ғ 0492	Ң 04A2	Х 04B2	Ж 04C2	Ä 04D2	Й 04E2	Ў 04F2
3	Ѓ 0403	Г 0413	У 0423	г 0433	у 0443	ѓ 0453	Ѥ 0463	ө 0473	џ 0483	ғ 0493	ң 04A3	х 04B3	Қ 04C3	ä 04D3	й 04E3	ў 04F3
4	Є 0404	Д 0414	Ф 0424	д 0434	ф 0444	є 0454	Ј 0464	Ѡ 0474	Ђ 0484	Н 0494	Ц 04A4	ќ 04B4	Æ 04C4	Й 04D4	Ї 04E4	Ї 04F4
5	Ѕ 0405	Е 0415	Х 0425	е 0435	х 0445	ѕ 0455	Ј 0465	Ѡ 0475	Ђ 0485	н 0495	ц 04A5	л 04B5	æ 04C5	й 04D5	ї 04E5	ї 04F5
6	І 0406	Ж 0416	Ц 0426	ж 0436	ц 0446	і 0456	А 0466	Ў 0476	Ї 0486	Ж 0496	Њ 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	Ў 0477	Ї 0487	ж 0497	њ 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	Оу 0478	Ї 0488	З 0498	Ѡ 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	Оу 0479	Ї 0489	з 0499	Ѡ 04A9	ч 04B9	Н 04C9	э 04D9	ө 04E9	Ї 04F9
A	Њ 040A	К 041A	Ѥ 042A	к 043A	Ѥ 044A	њ 045A	Ѥ 046A	О 047A	Й 048A	Қ 049A	Ї 04AA	Ї 04BA	н 04CA	Э 04DA	Ө 04EA	Ғ 04FA
B	Ѥ 040B	Л 041B	Ы 042B	л 043B	ы 044B	ћ 045B	Ѥ 046B	О 047B	й 048B	қ 049B	Ї 04AB	ч 04BB	ө 04CB	ө 04DB	ө 04EB	Ғ 04FB
C	Ѓ 040C	М 041C	Ь 042C	м 043C	ь 044C	ќ 045C	Ѓ 046C	Ѡ 047C	Ѥ 048C	К 049C	Т 04AC	Ї 04BC	ч 04CC	Ж 04DC	Э 04EC	Х 04FC
D	Й 040D	Н 041D	Э 042D	н 043D	э 044D	й 045D	Ѓ 046D	Ѡ 047D	Ѥ 048D	к 049D	т 04AD	е 04BD	М 04CD	ж 04DD	э 04ED	х 04FD
E	Ў 040E	О 041E	Ю 042E	о 043E	ю 044E	ў 045E	Ѥ 046E	Ѡ 047E	Р 048E	К 049E	У 04AE	Ї 04BE	м 04CE	З 04DE	У 04EE	Х 04FE
F	Ц 040F	П 041F	Я 042F	п 043F	я 044F	ц 045F	Ѥ 046F	Ѡ 047F	р 048F	к 049F	у 04AF	е 04BF	І 04CF	З 04DF	У 04EF	х 04FF

**Cyrillic extensions**

0400	Ё	CYRILLIC CAPITAL LETTER IE WITH GRAVE ≡ 0415 Ё 0300 ѐ
0401	Ё	CYRILLIC CAPITAL LETTER IO ≡ 0415 Ё 0308 ѐ
0402	Ђ	CYRILLIC CAPITAL LETTER DJE
0403	Ѓ	CYRILLIC CAPITAL LETTER GJE ≡ 0413 Г 0301 ѓ
0404	Є	CYRILLIC CAPITAL LETTER UKRAINIAN IE
0405	Ѕ	CYRILLIC CAPITAL LETTER DZE
0406	І	CYRILLIC CAPITAL LETTER BYELORUSSIAN- UKRAINIAN І → 0049 І 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 ъ
0408	Ј	CYRILLIC CAPITAL LETTER JE
0409	Љ	CYRILLIC CAPITAL LETTER LJE
040A	Њ	CYRILLIC CAPITAL LETTER NJE
040B	Ћ	CYRILLIC CAPITAL LETTER TSHE
040C	Ќ	CYRILLIC CAPITAL LETTER KJE ≡ 041A К 0301 ё
040D	Ў	CYRILLIC CAPITAL LETTER I WITH GRAVE ≡ 0418 И 0300 ѐ
040E	Ѹ	CYRILLIC CAPITAL LETTER SHORT U ≡ 0423 У 0306 ѹ
040F	Ц	CYRILLIC CAPITAL LETTER DZHE

**Basic Russian alphabet**

0410	А	CYRILLIC CAPITAL LETTER A
0411	Б	CYRILLIC CAPITAL LETTER BE → 0183 Ь 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 Uy 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 Ѣ cyrillic small letter yeru with back yer
044C	ь	CYRILLIC SMALL LETTER SOFT SIGN → 0185 ь latin small letter tone six → A64F ѣ cyrillic small letter neutral yer
044D	э	CYRILLIC SMALL LETTER E
044E	ю	CYRILLIC SMALL LETTER YU → A655 ѣ 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	ё	CYRILLIC SMALL LETTER IO • Russian, ... ≡ 0435 е 0308 ѐ
0452	ђ	CYRILLIC SMALL LETTER DJE • Serbian → 0111 đ latin small letter d with stroke
0453	ѓ	CYRILLIC SMALL LETTER GJE • Macedonian ≡ 0433 г 0301 ѓ
0454	є	CYRILLIC SMALL LETTER UKRAINIAN IE = Old Cyrillic yest
0455	ѕ	CYRILLIC SMALL LETTER DZE • Macedonian → A643 ѕ cyrillic small letter dzelo

0456	і	CYRILLIC SMALL LETTER BYELORUSSIAN-UKRAINIAN I = Old Cyrillic i
0457	ї	CYRILLIC SMALL LETTER YI • Ukrainian ≡ 0456 i 0308 ѳ
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	ћ	CYRILLIC SMALL LETTER TSHE • Serbian → 0107 ć latin small letter c with acute → 0127 ħ latin small letter h with stroke → 040B Ъ cyrillic capital letter tshe → 210F ħ planck constant over two pi → A649 Ѧ cyrillic small letter djerv
045C	ќ	CYRILLIC SMALL LETTER KJE • Macedonian ≡ 043A к 0301 ѿ
045D	ѝ	CYRILLIC SMALL LETTER I WITH GRAVE • Macedonian, Bulgarian ≡ 0438 и 0300 ъ
045E	ѣ	CYRILLIC SMALL LETTER SHORT U • Byelorussian, Uzbek ≡ 0443 y 0306 ѳ
045F	џ	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
0469	ѩ	CYRILLIC SMALL LETTER IOTIFIED LITTLE YUS → 044F я 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 ѳ 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 ѳ
0477	ѷ	CYRILLIC SMALL LETTER IZHITSA WITH DOUBLE GRAVE ACCENT ≡ 0475 ѵ 030F ѳ
0478	Ѹ	CYRILLIC CAPITAL LETTER UK • may be rendered as either monograph or digraph form • for “digraph uk” the preferred spelling is 041E Ѹ 0443 y • 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 ѹ 0443 y • 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	ѥ	COMBINING CYRILLIC DASIA PNEUMATA → 0314 ѥ combining reversed comma above
0486	Ѧ	COMBINING CYRILLIC PSILI PNEUMATA → 0313 Ѧ combining comma above
0487	ѧ	COMBINING CYRILLIC POKRYTIE • used only with letter titlos → 0311 ѧ combining inverted breve → A66F ѧ combining cyrillic vzmet
0488	Ѩ	COMBINING CYRILLIC HUNDRED THOUSANDS SIGN • use 20DD© for ten thousands sign
0489	ѩ	COMBINING CYRILLIC MILLIONS SIGN → A670 ѩ combining cyrillic ten millions sign

**Extended Cyrillic**

048A	Ѫ	CYRILLIC CAPITAL LETTER SHORT I WITH TAIL
048B	ѫ	CYRILLIC SMALL LETTER SHORT I WITH TAIL • Kildin Sami
048C	Ѭ	CYRILLIC CAPITAL LETTER SEMISOFT SIGN



048D	ѣ	CYRILLIC SMALL LETTER SEMISOFT SIGN	04AB	ґ	CYRILLIC SMALL LETTER ES WITH DESCENDER
		• Kildin Sami			• Bashkir, Chuvash
048E	Ѳ	CYRILLIC CAPITAL LETTER ER WITH TICK			• letterforms with right hooks are preferred, although occasional variants with left hooks occur
048F	ѳ	CYRILLIC SMALL LETTER ER WITH TICK			• in Chuvashia, letterforms identical to or similar in form to 00E7 ґ regularly occur
		• Kildin Sami			
0490	Ґ	CYRILLIC CAPITAL LETTER GHE WITH UPTURN	04AC	Ҥ	CYRILLIC CAPITAL LETTER TE WITH DESCENDER
0491	ґ	CYRILLIC SMALL LETTER GHE WITH UPTURN	04AD	т	CYRILLIC SMALL LETTER TE WITH DESCENDER
		• Ukrainian			• Abkhasian
0492	Ҕ	CYRILLIC CAPITAL LETTER GHE WITH STROKE	04AE	У	CYRILLIC CAPITAL LETTER STRAIGHT U
0493	ҕ	CYRILLIC SMALL LETTER GHE WITH STROKE	04AF	у	CYRILLIC SMALL LETTER STRAIGHT U
		• Azerbaijani, Bashkir, ...			• stem is straight, unlike LETTER U
		• full bar form preferred over half-barred “F”-type			• Azerbaijani, Bashkir, ...
0494	Ҩ	CYRILLIC CAPITAL LETTER GHE WITH MIDDLE HOOK			→ 0423 У cyrillic capital letter u
0495	ҩ	CYRILLIC SMALL LETTER GHE WITH MIDDLE HOOK	04B0	Ү	CYRILLIC CAPITAL LETTER STRAIGHT U WITH STROKE
		• Yakut, older orthographies for Abkhasian	04B1	ү	CYRILLIC SMALL LETTER STRAIGHT U WITH STROKE
0496	Ҫ	CYRILLIC CAPITAL LETTER ZHE WITH DESCENDER			• Kazakh
0497	ҫ	CYRILLIC SMALL LETTER ZHE WITH DESCENDER	04B2	Х	CYRILLIC CAPITAL LETTER HA WITH DESCENDER
		• Tatar, ...	04B3	х	CYRILLIC SMALL LETTER HA WITH DESCENDER
0498	Ҝ	CYRILLIC CAPITAL LETTER ZE WITH DESCENDER			• Abkhasian, Tajik, Uzbek
0499	ҝ	CYRILLIC SMALL LETTER ZE WITH DESCENDER	04B4	Ҳ	CYRILLIC CAPITAL LIGATURE TE TSE
		• Bashkir	04B5	ҳ	CYRILLIC SMALL LIGATURE TE TSE
		• letterforms with right hooks are preferred, although occasional variants with left hooks occur			• Abkhasian
049A	Ҡ	CYRILLIC CAPITAL LETTER KA WITH DESCENDER	04B6	Ң	CYRILLIC CAPITAL LETTER CHE WITH DESCENDER
049B	қ	CYRILLIC SMALL LETTER KA WITH DESCENDER	04B7	ң	CYRILLIC SMALL LETTER CHE WITH DESCENDER
		• Abkhasian, Tajik, ...			• Abkhasian, Tajik
049C	Ң	CYRILLIC CAPITAL LETTER KA WITH VERTICAL STROKE	04B8	Ҥ	CYRILLIC CAPITAL LETTER CHE WITH VERTICAL STROKE
049D	ң	CYRILLIC SMALL LETTER KA WITH VERTICAL STROKE	04B9	ҥ	CYRILLIC SMALL LETTER CHE WITH VERTICAL STROKE
		• Azerbaijani			• Azerbaijani
049E	Ң	CYRILLIC CAPITAL LETTER KA WITH STROKE	04BA	Һ	CYRILLIC CAPITAL LETTER SHHA
049F	ҥ	CYRILLIC SMALL LETTER KA WITH STROKE	04BB	һ	CYRILLIC SMALL LETTER SHHA
		• Abkhasian			• originally derived from Latin “h”, but uppercase form 04BA Һ is closer to an inverted che (0427 Ч)
04A0	Ң	CYRILLIC CAPITAL LETTER BASHKIR KA			• Azerbaijani, Bashkir, ...
04A1	ҥ	CYRILLIC SMALL LETTER BASHKIR KA			→ 0068 h latin small letter h
04A2	Ң	CYRILLIC CAPITAL LETTER EN WITH DESCENDER	04BC	Ң	CYRILLIC CAPITAL LETTER ABKHASIAN CHE
04A3	ҩ	CYRILLIC SMALL LETTER EN WITH DESCENDER	04BD	ң	CYRILLIC SMALL LETTER ABKHASIAN CHE
		• Bashkir, ...	04BE	Ң	CYRILLIC CAPITAL LETTER ABKHASIAN CHE WITH DESCENDER
04A4	Ң	CYRILLIC CAPITAL LIGATURE EN GHE	04BF	ң	CYRILLIC SMALL LETTER ABKHASIAN CHE WITH DESCENDER
04A5	ҩ	CYRILLIC SMALL LIGATURE EN GHE			• some older Abkhaz fonts show a descender shaped like a right hook (ogonek or reversed comma shape)
		• Altay, Mari, Yakut			
		• this is not a decomposable ligature	04C0	І	CYRILLIC LETTER PALOCHKA
04A6	Ң	CYRILLIC CAPITAL LETTER PE WITH MIDDLE HOOK			• aspiration sign in many Caucasian languages
04A7	ҩ	CYRILLIC SMALL LETTER PE WITH MIDDLE HOOK			• is usually not cased, but the formal lowercase is 04CF і
		• older orthographies for Abkhasian			→ 0049 І latin capital letter i
04A8	Ҡ	CYRILLIC CAPITAL LETTER ABKHASIAN HA			→ 0406 І cyrillic capital letter byelorussian-ukrainian i
04A9	қ	CYRILLIC SMALL LETTER ABKHASIAN HA			
04AA	ґ	CYRILLIC CAPITAL LETTER ES WITH DESCENDER	04C1	Ҫ	CYRILLIC CAPITAL LETTER ZHE WITH BREVE
					≡ 0416 Ж 0306 ѐ

04C2	Ӏ	CYRILLIC SMALL LETTER ZHE WITH BREVE • Moldavian ≡ 0436 ӑ 0306 ӓ
04C3	Ӑ	CYRILLIC CAPITAL LETTER KA WITH HOOK
04C4	ӑ	CYRILLIC SMALL LETTER KA WITH HOOK • Khanty, Chukchi
04C5	Ӓ	CYRILLIC CAPITAL LETTER EL WITH TAIL
04C6	ӓ	CYRILLIC SMALL LETTER EL WITH TAIL • Kildin Sami
04C7	Ӕ	CYRILLIC CAPITAL LETTER EN WITH HOOK
04C8	ӕ	CYRILLIC SMALL LETTER EN WITH HOOK • Khanty, Chukchi, Nenets
04C9	Ӧ	CYRILLIC CAPITAL LETTER EN WITH TAIL
04CA	ӧ	CYRILLIC SMALL LETTER EN WITH TAIL • Kildin Sami
04CB	Ө	CYRILLIC CAPITAL LETTER KHAKASSIAN CHE
04CC	ө	CYRILLIC SMALL LETTER KHAKASSIAN CHE
04CD	Ӫ	CYRILLIC CAPITAL LETTER EM WITH TAIL
04CE	ӫ	CYRILLIC SMALL LETTER EM WITH TAIL • Kildin Sami
04CF	Ӭ	CYRILLIC SMALL LETTER PALOCHKA
04D0	ӭ	CYRILLIC CAPITAL LETTER A WITH BREVE ≡ 0410 Ӑ 0306 ӓ
04D1	Ӯ	CYRILLIC SMALL LETTER A WITH BREVE ≡ 0430 ӑ 0306 ӓ
04D2	Ӱ	CYRILLIC CAPITAL LETTER A WITH DIAERESIS ≡ 0410 Ӑ 0308 Ӕ
04D3	ӱ	CYRILLIC SMALL LETTER A WITH DIAERESIS ≡ 0430 ӑ 0308 Ӕ
04D4	Ӳ	CYRILLIC CAPITAL LIGATURE A IE
04D5	ӳ	CYRILLIC SMALL LIGATURE A IE • this is not a decomposable ligature → 00E6 ӕ latin small letter ae
04D6	Ӵ	CYRILLIC CAPITAL LETTER IE WITH BREVE ≡ 0415 Ӑ 0306 ӓ
04D7	ӵ	CYRILLIC SMALL LETTER IE WITH BREVE ≡ 0435 ӑ 0306 ӓ
04D8	Ӷ	CYRILLIC CAPITAL LETTER SCHWA
04D9	ӷ	CYRILLIC SMALL LETTER SCHWA → 0259 ɐ latin small letter schwa
04DA	Ӹ	CYRILLIC CAPITAL LETTER SCHWA WITH DIAERESIS ≡ 04D8 Ӷ 0308 Ӕ
04DB	ӹ	CYRILLIC SMALL LETTER SCHWA WITH DIAERESIS ≡ 04D9 ӷ 0308 Ӕ
04DC	Ӻ	CYRILLIC CAPITAL LETTER ZHE WITH DIAERESIS ≡ 0416 Ӑ 0308 Ӕ
04DD	ӻ	CYRILLIC SMALL LETTER ZHE WITH DIAERESIS ≡ 0436 ӑ 0308 Ӕ
04DE	Ӽ	CYRILLIC CAPITAL LETTER ZE WITH DIAERESIS ≡ 0417 Ӑ 0308 Ӕ
04DF	ӽ	CYRILLIC SMALL LETTER ZE WITH DIAERESIS ≡ 0437 ӑ 0308 Ӕ
04E0	Ӿ	CYRILLIC CAPITAL LETTER ABKHASIAN DZE
04E1	ӿ	CYRILLIC SMALL LETTER ABKHASIAN DZE → 0292 ɜ latin small letter ezh
04E2	Ӡ	CYRILLIC CAPITAL LETTER I WITH MACRON ≡ 0418 Ӑ 0304 ӓ
04E3	ӡ	CYRILLIC SMALL LETTER I WITH MACRON ≡ 0438 ӑ 0304 ӓ
04E4	Ӣ	CYRILLIC CAPITAL LETTER I WITH DIAERESIS ≡ 0418 Ӑ 0308 Ӕ
04E5	ӣ	CYRILLIC SMALL LETTER I WITH DIAERESIS ≡ 0438 ӑ 0308 Ӕ
04E6	Ӥ	CYRILLIC CAPITAL LETTER O WITH DIAERESIS ≡ 041E Ӑ 0308 Ӕ
04E7	ӥ	CYRILLIC SMALL LETTER O WITH DIAERESIS ≡ 043E ӑ 0308 Ӕ
04E8	Ӧ	CYRILLIC CAPITAL LETTER BARRED O
04E9	ӧ	CYRILLIC SMALL LETTER BARRED O → 0275 ɵ latin small letter barred o
04EA	Ө	CYRILLIC CAPITAL LETTER BARRED O WITH DIAERESIS ≡ 04E8 Ӧ 0308 Ӕ
04EB	ө	CYRILLIC SMALL LETTER BARRED O WITH DIAERESIS ≡ 04E9 ӧ 0308 Ӕ
04EC	Ӫ	CYRILLIC CAPITAL LETTER E WITH DIAERESIS ≡ 042D Ӑ 0308 Ӕ
04ED	ӫ	CYRILLIC SMALL LETTER E WITH DIAERESIS • Kildin Sami ≡ 044D ӑ 0308 Ӕ
04EE	Ӭ	CYRILLIC CAPITAL LETTER U WITH MACRON ≡ 0423 Ӑ 0304 ӓ
04EF	ӭ	CYRILLIC SMALL LETTER U WITH MACRON ≡ 0443 ӑ 0304 ӓ
04F0	Ӯ	CYRILLIC CAPITAL LETTER U WITH DIAERESIS ≡ 0423 Ӑ 0308 Ӕ
04F1	ӯ	CYRILLIC SMALL LETTER U WITH DIAERESIS ≡ 0443 ӑ 0308 Ӕ
04F2	Ӱ	CYRILLIC CAPITAL LETTER U WITH DOUBLE ACUTE ≡ 0423 Ӑ 030B Ӕ
04F3	ӱ	CYRILLIC SMALL LETTER U WITH DOUBLE ACUTE ≡ 0443 ӑ 030B Ӕ
04F4	Ӳ	CYRILLIC CAPITAL LETTER CHE WITH DIAERESIS ≡ 0427 Ӑ 0308 Ӕ
04F5	ӳ	CYRILLIC SMALL LETTER CHE WITH DIAERESIS ≡ 0447 ӑ 0308 Ӕ
04F6	Ӵ	CYRILLIC CAPITAL LETTER GHE WITH DESCENDER
04F7	ӵ	CYRILLIC SMALL LETTER GHE WITH DESCENDER • Yupik
04F8	Ӷ	CYRILLIC CAPITAL LETTER YERU WITH DIAERESIS ≡ 042B Ӑ 0308 Ӕ
04F9	ӷ	CYRILLIC SMALL LETTER YERU WITH DIAERESIS ≡ 044B ӑ 0308 Ӕ
<b>Additions for Nivkh</b>		
04FA	Ӹ	CYRILLIC CAPITAL LETTER GHE WITH STROKE AND HOOK
04FB	ӹ	CYRILLIC SMALL LETTER GHE WITH STROKE AND HOOK
04FC	Ӻ	CYRILLIC CAPITAL LETTER HA WITH HOOK
04FD	ӻ	CYRILLIC SMALL LETTER HA WITH HOOK
04FE	Ӽ	CYRILLIC CAPITAL LETTER HA WITH STROKE
04FF	ӽ	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	Љ 0514	Њ 0524
5	ѕ 0505	љ 0515	њ 0525
6	Ѓ 0506	Ќ 0516	ћ 0526
7	ѓ 0507	ѣ 0517	ћ 0527
8	Љ 0508	Æ 0518	
9	Љ 0509	æ 0519	
A	Њ 050A	Q 051A	
B	Њ 050B	q 051B	
C	G 050C	W 051C	
D	G 050D	W 051D	
E	Ќ 050E	Ќ 051E	
F	Ќ 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

**Khanty letters**

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

**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 letters**

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	Ӓ	CYRILLIC CAPITAL LETTER EL WITH MIDDLE HOOK
0521	ӓ	CYRILLIC SMALL LETTER EL WITH MIDDLE HOOK
= palatalized l		
0522	Ӧ	CYRILLIC CAPITAL LETTER EN WITH MIDDLE HOOK
0523	ӧ	CYRILLIC SMALL LETTER EN WITH MIDDLE HOOK
= palatalized n		


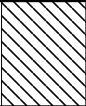








**Abkhaz letters**

0524	Ӑ	CYRILLIC CAPITAL LETTER PE WITH DESCENDER
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0525	ӑ	CYRILLIC SMALL LETTER PE WITH DESCENDER
• used in modern Abkhaz orthography		
→ 04A7 ӑ cyrillic small letter pe with middle hook		

**Azerbaijani letters**

0526	Ӑ	CYRILLIC CAPITAL LETTER SHHA WITH DESCENDER
0527	ӑ	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	Գ 0563	Ճ 0573	Փ 0583
4	Դ 0534	Մ 0544	Ք 0554	Դ 0564	Մ 0574	Ք 0584
5	Ե 0535	Յ 0545	Օ 0555	Ե 0565	Ե 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	Է 0587
8	Ը 0538	Ո 0548		Ը 0568	Ո 0578	
9	Թ 0539	Չ 0549	՛ 0559	Թ 0569	Չ 0579	՛ 0589
A	Ժ 053A	Պ 054A	՛ 055A	Ժ 056A	Պ 057A	՛ 058A
B	Ի 053B	Ջ 054B	՛ 055B	Ի 056B	Ջ 057B	
C	Լ 053C	Դ 054C	~ 055C	Լ 056C	Դ 057C	
D	Խ 053D	Ս 054D	՛ 055D	Խ 056D	Ս 057D	
E	Շ 053E	Վ 054E	՞ 055E	Շ 056E	Վ 057E	
F	Կ 053F	Տ 054F	՛ 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	Թ	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	Ծ	ARMENIAN CAPITAL LETTER CO
0552	Ժ	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**

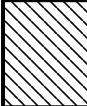















































































































0559	՝	ARMENIAN MODIFIER LETTER LEFT HALF RING → 02BD ՝ modifier letter reversed comma → 02BF ՝ modifier letter left half ring → 0314 ՝ combining reversed comma above
055A	՛	ARMENIAN APOSTROPHE = armenian modifier letter right half ring (1.0) → 02BC ՛ modifier letter apostrophe → 02BE ՛ modifier letter right half ring → 0313 ՝ 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	ռ	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	լ	ARMENIAN SMALL LETTER YIWN
0583	փ	ARMENIAN SMALL LETTER PIWR
0584	ք	ARMENIAN SMALL LETTER KEH
0585	օ	ARMENIAN SMALL LETTER OH
0586	ֆ	ARMENIAN SMALL LETTER FEH
0587	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		 05A0	 05B0	 05C0	 05D0	 05E0	 05F0
1	 0591	 05A1	 05B1	 05C1	 05D1	 05E1	 05F1
2	 0592	 05A2	 05B2	 05C2	 05D2	 05E2	 05F2
3	 0593	 05A3	 05B3	 05C3	 05D3	 05E3	 05F3
4	 0594	 05A4	 05B4	 05C4	 05D4	 05E4	 05F4
5	 0595	 05A5	 05B5	 05C5	 05D5	 05E5	
6	 0596	 05A6	 05B6	 05C6	 05D6	 05E6	
7	 0597	 05A7	 05B7	 05C7	 05D7	 05E7	
8	 0598	 05A8	 05B8		 05D8	 05E8	
9	 0599	 05A9	 05B9		 05D9	 05E9	
A	 059A	 05AA	 05BA		 05DA	 05EA	
B	 059B	 05AB	 05BB		 05DB		
C	 059C	 05AC	 05BC		 05DC		
D	 059D	 05AD	 05BD		 05DD		
E	 059E	 05AE	 05BE		 05DE		
F	 059F	 05AF	 05BF		 05DF		

## Cantillation marks

0591	◌ֶ	HEBREW ACCENT ETNAHTA = atnah
0592	◌ֵ	HEBREW ACCENT SEGOL = segolta
0593	◌ִ	HEBREW ACCENT SHALSHELET
0594	◌ִ	HEBREW ACCENT ZAQEF QATAN
0595	◌ִ	HEBREW ACCENT ZAQEF GADOL
0596	◌ֶ	HEBREW ACCENT TIPEHA = tarha, me'ayla ~ mayla
0597	◌ִ	HEBREW ACCENT REVIA
0598	◌ִ	HEBREW ACCENT ZARQA = tsinorit, zinorit; tsinor, zinor • This character is to be used when Zarqa or Tsinor are placed above, and also for Tsinorit. → 05AE◌ִ hebrew accent zinor
0599	◌ֶ	HEBREW ACCENT PASHTA
059A	◌ֶ	HEBREW ACCENT YETIV
059B	◌ֶ	HEBREW ACCENT TEVIR
059C	◌ֶ	HEBREW ACCENT GERESH = teres
059D	◌ֶ	HEBREW ACCENT GERESH MUQDAM
059E	◌ֶ	HEBREW ACCENT GERSHAYIM
059F	◌ֶ	HEBREW ACCENT QARNEY PARA = pazer gadol
05A0	◌ֶ	HEBREW ACCENT TELISHA GEDOLA
05A1	◌ֶ	HEBREW ACCENT PAZER = pazer qatan
05A2	◌ֶ	HEBREW ACCENT ATNAH HAFUKH → 05AA◌ֶ hebrew accent yerah ben yomo
05A3	◌ֶ	HEBREW ACCENT MUNAH
05A4	◌ֶ	HEBREW ACCENT MAHAPAKH
05A5	◌ֶ	HEBREW ACCENT MERKHA = yored
05A6	◌ֶ	HEBREW ACCENT MERKHA KEFULA
05A7	◌ֶ	HEBREW ACCENT DARGA
05A8	◌ֶ	HEBREW ACCENT QADMA = azla
05A9	◌ֶ	HEBREW ACCENT TELISHA QETANA
05AA	◌ֶ	HEBREW ACCENT YERAH BEN YOMO = galgal → 05A2◌ֶ hebrew accent atnah hafukh
05AB	◌ֶ	HEBREW ACCENT OLE
05AC	◌ֶ	HEBREW ACCENT ILUY
05AD	◌ֶ	HEBREW ACCENT DEHI
05AE	◌ֶ	HEBREW ACCENT ZINOR = tsinor; zarqa • This character is to be used when Zarqa or Tsinor are placed above left. → 0598◌ֶ hebrew accent zarqa
05AF	◌ֶ	HEBREW MARK MASORA CIRCLE

## Points and punctuation

05B0	◌ְ	HEBREW POINT SHEVA
05B1	◌ֱ	HEBREW POINT HATAF SEGOL
05B2	◌ִ	HEBREW POINT HATAF PATAH
05B3	◌ֶ	HEBREW POINT HATAF QAMATS
05B4	◌ִּ	HEBREW POINT HIRIQ
05B5	◌ֵ	HEBREW POINT TSERE
05B6	◌ֹ	HEBREW POINT SEGOL
05B7	◌ֻ	HEBREW POINT PATAH

- furtive patah is not a distinct character

05B8	◌ֿ	HEBREW POINT QAMATS	<ul style="list-style-type: none"> <li>used generically or as qamats gadol in orthography which distinguishes that from qamats qatan</li> </ul> → 05C7 ◌ֿ hebrew point qamats qatan
05B9	◌ׁ	HEBREW POINT HOLAM	
05BA	◌ׂ	HEBREW POINT HOLAM HASER FOR VAV	
05BB	◌׃	HEBREW POINT QUBUTS	
05BC	◌ׄ	HEBREW POINT DAGESH OR MAPIQ	= shuruq <ul style="list-style-type: none"> <li>falls within the base letter</li> </ul>
05BD	◌ֿ׀	HEBREW POINT METEG	= siluq <ul style="list-style-type: none"> <li>may be used as a Hebrew accent sof pasuq</li> </ul>
05BE	׀	HEBREW PUNCTUATION MAQAF	
05BF	◌ׇ	HEBREW POINT RAFE	→ FB1E ׇ hebrew point judeo-spanish varika
05C0	ׁ׀	HEBREW PUNCTUATION PASEQ	= legarmeh <ul style="list-style-type: none"> <li>may be treated as spacing punctuation, not as a point</li> </ul> → 007C ׁ vertical line
05C1	◌׃ׅ	HEBREW POINT SHIN DOT	
05C2	◌׃׆	HEBREW POINT SIN DOT	
05C3	׃	HEBREW PUNCTUATION SOF PASUQ	<ul style="list-style-type: none"> <li>may be used as a Hebrew punctuation colon</li> </ul> → 003A ׃ colon

### Puncta extraordinaria

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

## Points and punctuation

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

**Based on ISO 8859-8**

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
05DC	ל	HEBREW LETTER LAMED
05DD	ם	HEBREW LETTER FINAL MEM
05DE	מ	HEBREW LETTER MEM
05DF	נ	HEBREW LETTER FINAL NUN
05E0	ן	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	ץ	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	וי	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		0610	ي	ذ	-	◌ِ	◌ْ	◌ُ	پ	ڈ	غ	گ	ہ	پ	◌ُ	◌ْ
1		0611	ع	ر	ف	◌ِ	◌ْ	أ	خ	ڑ	ف	گ	ہ	پ	◌ُ	◌ْ
2		0612	آ	ز	ق	◌ُ	◌ْ	أ	خ	ر	ب	گ	ہ	ے	◌ُ	◌ْ
3		0613	ض	أ	س	ك	◌ِ	◌ْ	إ	ح	ر	ف	گ	ت	ے	◌ُ
4		0614	◌ِ	و	ش	ل	◌ِ	◌ْ	ع	ج	ر	ف	گ	و	-	◌ِ
5		0615	ط	إ	ص	م	◌ِ	◌ْ	أ	خ	ر	پ	ل	و	ہ	◌ْ
6		0616	◌ِ	ئ	ض	ن	◌ِ	◌ْ	و	چ	ب	ق	ل	و	◌ِ	◌ْ
7		0617	◌ِ	ا	ط	ھ	◌ِ	◌ْ	و	چ	ر	ف	ل	و	◌ِ	◌ْ
8		0618	◌ِ	ب	ظ	و	◌ِ	◌ْ	ئ	ڈ	ث	ق	پ	و	◌ِ	◌ْ
9		0619	◌ِ	ة	ع	ی	◌ِ	◌ْ	ٹ	پ	ک	ن	و	◌ِ		◌ْ
A		061A	◌ِ	ت	غ	ي	◌ِ	◌ْ	ن	ب	بن	ک	ر	ق	◌ِ	◌ْ
B		061B	؛	ث	ک	◌ِ	◌ْ	ر	پ	ڈ	پ	ک	ن	و	◌ِ	◌ْ
C			ج	ک	◌ِ	◌ْ	ر	ت	ڈ	پ	ک	ن	ی	◌ِ	◌ْ	غ
D			ح	ئ	◌ِ	◌ْ	◌ِ	ت	د	ص	ک	ن	ی		◌ِ	◌ْ
E		061E	خ	ی	◌ِ	◌ْ	ب	پ	ڈ	ض	پ	ھ	ی		ڈ	م
F		061F	؟	د	ث	◌ِ	◌ْ	و	ت	ڈ	ظ	گ	خ	و	ر	ھ

**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  cube root
0607		ARABIC-INDIC FOURTH ROOT → 221C  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 ت
------	--	--

**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

**Addition for Kashmiri**

0620		ARABIC LETTER KASHMIRI YEH
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**Based on ISO 8859-6**

0621		ARABIC LETTER HAMZA → 02BE ’ modifier letter right half ring
0622		ARABIC LETTER ALEF WITH MADDA ABOVE ≡ 0627 <sup>1</sup> 0653 َ
0623		ARABIC LETTER ALEF WITH HAMZA ABOVE ≡ 0627 <sup>1</sup> 0654 َ
0624		ARABIC LETTER WAW WITH HAMZA ABOVE ≡ 0648 ُ 0654 َ
0625		ARABIC LETTER ALEF WITH HAMZA BELOW ≡ 0627 <sup>1</sup> 0655 ِ
0626		ARABIC LETTER YEH WITH HAMZA ABOVE ≡ 064A ِ 0654 َ
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 KAH
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		ARABIC LETTER AIN → 01B9 ع latin small letter ezh reversed → 02BF ʿ modifier letter left half ring
063A		ARABIC LETTER GHAIN

**Additions for early Persian and Azerbaijani**

- 063B ك ARABIC LETTER KEHEH WITH TWO DOTS ABOVE
- 063C ڪ ARABIC LETTER KEHEH WITH THREE DOTS BELOW
- 063D ع ARABIC LETTER FARSI YEH WITH INVERTED V  
• Azerbaijani
- 063E ع ARABIC LETTER FARSI YEH WITH TWO DOTS ABOVE
- 063F ع 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 ي 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 ٲ ARABIC FATHATAN
- 064C ٲ ARABIC DAMMATAN
- 064D ٲ ARABIC KASRATAN
- 064E ٲ ARABIC FATHA
- 064F ٲ ARABIC DAMMA
- 0650 ٲ ARABIC KASRA
- 0651 ٲ ARABIC SHADDA
- 0652 ٲ 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 ٲ  
→ 06E1 ٲ arabic small high dotless head of khah

**Combining maddah and hamza**

- 0653 ٲ ARABIC MADDAH ABOVE
- 0654 ٲ ARABIC HAMZA ABOVE
- 0655 ٲ ARABIC HAMZA BELOW

**Other combining marks**

- 0656 ٲ ARABIC SUBSCRIPT ALEF
- 0657 ٲ ARABIC INVERTED DAMMA  
= ulta pesh  
• Kashmiri, Urdu
- 0658 ٲ ARABIC MARK NOON GHUNNA  
• Kashmiri and Baluchi  
• indicates nasalization in Urdu  
• glyph is an inverted v shape in Kashmiri
- 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
- 065F ٲ ARABIC WAVY HAMZA BELOW

**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  
• Kashmiri
- 0674 \* ARABIC LETTER HIGH HAMZA  
• Kazakh  
• forms digraphs
- 0675 ٲ ARABIC LETTER HIGH HAMZA ALEF  
• Kazakh  
≈ 0627 ٲ 0674 \*
- 0676 ٫ ARABIC LETTER HIGH HAMZA WAW  
• Kazakh  
≈ 0648 ٫ 0674 \*

0677	ا	ARABIC LETTER U WITH HAMZA ABOVE • Kazakh ≈ 06C7 ا 0674 *
0678	ي	ARABIC LETTER HIGH HAMZA YEH • Kazakh ≈ 064A ي 0674 *
0679	ٹ	ARABIC LETTER TTEH • Urdu
067A	ٹ	ARABIC LETTER TTEHEH • Sindhi
067B	پ	ARABIC LETTER BEEH • Sindhi
067C	ټ	ARABIC LETTER TEH WITH RING • Pashto
067D	ث	ARABIC LETTER TEH WITH THREE DOTS ABOVE DOWNWARDS • Sindhi
067E	پ	ARABIC LETTER PEH • Persian, Urdu, ...
067F	ث	ARABIC LETTER TEHEH • Sindhi
0680	پ	ARABIC LETTER BEHEH • Sindhi
0681	خ	ARABIC LETTER HAH WITH HAMZA ABOVE • Pashto letter “dze”
0682	خ	ARABIC LETTER HAH WITH TWO DOTS VERTICAL ABOVE • not used in modern Pashto
0683	ج	ARABIC LETTER NYEH • Sindhi
0684	ج	ARABIC LETTER DYEH • Sindhi
0685	خ	ARABIC LETTER HAH WITH THREE DOTS ABOVE • Pashto, Khwarazmian
0686	چ	ARABIC LETTER TCHEH • Persian, Urdu, ...
0687	چ	ARABIC LETTER TCHEHEH • Sindhi
0688	ڈ	ARABIC LETTER DDAL • Urdu
0689	ڊ	ARABIC LETTER DAL WITH RING • Pashto
068A	ڊ	ARABIC LETTER DAL WITH DOT BELOW • Sindhi, early Persian
068B	ڊ	ARABIC LETTER DAL WITH DOT BELOW AND SMALL TAH • Lahnda
068C	ڌ	ARABIC LETTER DAHAL • Sindhi
068D	ڌ	ARABIC LETTER DDAHAL • 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	ڏ	ARABIC LETTER DAL WITH FOUR DOTS ABOVE • old Urdu, not in current use
0691	ڑ	ARABIC LETTER RREH • Urdu
0692	ز	ARABIC LETTER REH WITH SMALL V • Kurdish
0693	ړ	ARABIC LETTER REH WITH RING • Pashto
0694	ړ	ARABIC LETTER REH WITH DOT BELOW • Kurdish, early Persian
0695	ږ	ARABIC LETTER REH WITH SMALL V BELOW • Kurdish
0696	ږ	ARABIC LETTER REH WITH DOT BELOW AND DOT ABOVE • Pashto
0697	ژ	ARABIC LETTER REH WITH TWO DOTS ABOVE • Dargwa
0698	ژ	ARABIC LETTER JEH • Persian, Urdu, ...
0699	ڙ	ARABIC LETTER REH WITH FOUR DOTS ABOVE • Sindhi
069A	ښ	ARABIC LETTER SEEN WITH DOT BELOW AND DOT ABOVE • Pashto
069B	ښ	ARABIC LETTER SEEN WITH THREE DOTS BELOW • early Persian
069C	ښ	ARABIC LETTER SEEN WITH THREE DOTS BELOW AND THREE DOTS ABOVE • Moroccan Arabic
069D	ص	ARABIC LETTER SAD WITH TWO DOTS BELOW • Turkic
069E	ض	ARABIC LETTER SAD WITH THREE DOTS ABOVE • Berber, Burushaski
069F	ظ	ARABIC LETTER TAH WITH THREE DOTS ABOVE • old Hausa
06A0	غ	ARABIC LETTER AIN WITH THREE DOTS ABOVE • old Malay
06A1	ف	ARABIC LETTER DOTLESS FEH • Adighe
06A2	ف	ARABIC LETTER FEH WITH DOT MOVED BELOW • Maghrib Arabic
06A3	ڦ	ARABIC LETTER FEH WITH DOT BELOW • Ingush
06A4	ڦ	ARABIC LETTER VEH • Middle Eastern Arabic for foreign words • Kurdish, Khwarazmian, early Persian
06A5	ڦ	ARABIC LETTER FEH WITH THREE DOTS BELOW • North African Arabic for foreign words
06A6	ڦ	ARABIC LETTER PEHEH • Sindhi
06A7	ڦ	ARABIC LETTER QAF WITH DOT ABOVE • Maghrib Arabic
06A8	ڦ	ARABIC LETTER QAF WITH THREE DOTS ABOVE • Tunisian Arabic
06A9	ک	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	ڳ	ARABIC LETTER KAF WITH DOT ABOVE • old Malay
06AD	ڳ	ARABIC LETTER NG • Uighur, Kazakh, old Malay, early Persian, ...

06AE	ك	ARABIC LETTER KAF WITH THREE DOTS BELOW	06CA	و	ARABIC LETTER WAW WITH TWO DOTS ABOVE
		• Berber, early Persian			• Kurdish
06AF	گ	ARABIC LETTER GAF	06CB	ڤ	ARABIC LETTER VE
		• Persian, Urdu, ...			• Uighur, Kazakh
06B0	گ	ARABIC LETTER GAF WITH RING	06CC	ي	ARABIC LETTER FARSI YEH
		• Lahnda			• Arabic, Persian, Urdu, ...
06B1	گ	ARABIC LETTER NGOEH			• initial and medial forms of this letter have dots
		• Sindhi			→ 0649 ي arabic letter alef maksura
06B2	گ	ARABIC LETTER GAF WITH TWO DOTS BELOW			→ 064A ي arabic letter yeh
		• not used in Sindhi	06CD	ي	ARABIC LETTER YEH WITH TAIL
06B3	گ	ARABIC LETTER GUEH			• Pashto, Sindhi
		• Sindhi	06CE	ي	ARABIC LETTER YEH WITH SMALL V
06B4	گ	ARABIC LETTER GAF WITH THREE DOTS ABOVE			• Kurdish
		• not used in Sindhi	06CF	و	ARABIC LETTER WAW WITH DOT ABOVE
06B5	ل	ARABIC LETTER LAM WITH SMALL V	06D0	ي	ARABIC LETTER E
		• Kurdish			• Pashto, Uighur
06B6	ل	ARABIC LETTER LAM WITH DOT ABOVE			• used as the letter bbeh in Sindhi
		• Kurdish	06D1	ي	ARABIC LETTER YEH WITH THREE DOTS BELOW
06B7	ل	ARABIC LETTER LAM WITH THREE DOTS ABOVE			• old Malay
		• Kurdish	06D2	ء	ARABIC LETTER YEH BARREE
06B8	ل	ARABIC LETTER LAM WITH THREE DOTS BELOW			• Urdu
06B9	ن	ARABIC LETTER NOON WITH DOT BELOW	06D3	ء	ARABIC LETTER YEH BARREE WITH HAMZA ABOVE
06BA	ن	ARABIC LETTER NOON GHUNNA			• Urdu
		• Urdu			• actually a ligature, not an independent letter
06BB	ن	ARABIC LETTER RNOON			≡ 06D2 ء 0654 ء
		• Sindhi	<b>Punctuation</b>		
06BC	ن	ARABIC LETTER NOON WITH RING	06D4	-	ARABIC FULL STOP
		• Pashto			• Urdu
06BD	ن	ARABIC LETTER NOON WITH THREE DOTS ABOVE	<b>Extended Arabic letter</b>		
		• old Malay	06D5	ء	ARABIC LETTER AE
06BE	ه	ARABIC LETTER HEH DOACHASHMEE			• Uighur, Kazakh, Kirghiz
		• Urdu	<b>Koranic annotation signs</b>		
		• forms aspirate digraphs	06D6	و	ARABIC SMALL HIGH LIGATURE SAD WITH LAM WITH ALEF MAKSURA
06BF	ه	ARABIC LETTER TCHEH WITH DOT ABOVE	06D7	و	ARABIC SMALL HIGH LIGATURE QAF WITH LAM WITH ALEF MAKSURA
06C0	ه	ARABIC LETTER HEH WITH YEH ABOVE	06D8	و	ARABIC SMALL HIGH MEEM INITIAL FORM
		= arabic letter hamzah on ha (1.0)	06D9	و	ARABIC SMALL HIGH LAM ALEF
		= izafet	06DA	و	ARABIC SMALL HIGH JEEM
		• Urdu	06DB	و	ARABIC SMALL HIGH THREE DOTS
		• actually a ligature, not an independent letter	06DC	و	ARABIC SMALL HIGH SEEN
		≡ 06D5 ء 0654 ء	06DD	و	ARABIC END OF AYAH
06C1	ه	ARABIC LETTER HEH GOAL	06DE	و	ARABIC START OF RUB EL HIZB
		• Urdu	06DF	و	ARABIC SMALL HIGH ROUNDED ZERO
06C2	ه	ARABIC LETTER HEH GOAL WITH HAMZA ABOVE			• smaller than the typical circular shape used for 0652 و
		• Urdu	06E0	و	ARABIC SMALL HIGH UPRIGHT RECTANGULAR ZERO
		• actually a ligature, not an independent letter	06E1	و	ARABIC SMALL HIGH DOTLESS HEAD OF KHAH
		≡ 06C1 ه 0654 و			= Arabic jazm
06C3	ه	ARABIC LETTER TEH MARBUTA GOAL			• presentation form of 0652 و, using font technology to select the variant is preferred
		• Urdu			• used in some Korans to mark absence of a vowel
06C4	و	ARABIC LETTER WAW WITH RING			→ 0652 و arabic sukun
		• Kashmiri	06E2	و	ARABIC SMALL HIGH MEEM ISOLATED FORM
06C5	و	ARABIC LETTER KIRGHIZ OE	06E3	و	ARABIC SMALL LOW SEEN
		• Kirghiz	06E4	و	ARABIC SMALL HIGH MADD A
06C6	و	ARABIC LETTER OE	06E5	و	ARABIC SMALL WAW
		• Uighur, Kurdish, Kazakh, Azerbaijani	06E6	و	ARABIC SMALL YEH
06C7	و	ARABIC LETTER U			
		• Kirghiz, Azerbaijani			
06C8	و	ARABIC LETTER YU			
		• Uighur			
06C9	و	ARABIC LETTER KIRGHIZ YU			
		• Kazakh, Kirghiz			

- 06E7 ﺀ ARABIC SMALL HIGH YEH  
 06E8 ﺀ ARABIC SMALL HIGH NOON  
 06E9 ﺀ ARABIC PLACE OF SAJDAH  
 • there is a range of acceptable glyphs for this character  
 06EA ﺀ ARABIC EMPTY CENTRE LOW STOP  
 06EB ﺀ ARABIC EMPTY CENTRE HIGH STOP  
 06EC ﺀ ARABIC ROUNDED HIGH STOP WITH FILLED CENTRE  
 06ED ﺀ ARABIC SMALL LOW MEEM

**Extended Arabic letters for Parkari**

- 06EE ﺀ ARABIC LETTER DAL WITH INVERTED V  
 06EF ﺀ ARABIC LETTER REH WITH INVERTED V  
 • also used in early Persian

**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 ٠ EXTENDED ARABIC-INDIC DIGIT ZERO  
 06F1 ١ EXTENDED ARABIC-INDIC DIGIT ONE  
 06F2 ٢ EXTENDED ARABIC-INDIC DIGIT TWO  
 06F3 ٣ EXTENDED ARABIC-INDIC DIGIT THREE  
 06F4 ٤ EXTENDED ARABIC-INDIC DIGIT FOUR  
 • Persian has a different glyph than Sindhi and Urdu  
 06F5 ٥ EXTENDED ARABIC-INDIC DIGIT FIVE  
 • Persian, Sindhi, and Urdu share glyph different from Arabic  
 06F6 ٦ EXTENDED ARABIC-INDIC DIGIT SIX  
 • Persian, Sindhi, and Urdu have glyphs different from Arabic  
 06F7 ٧ EXTENDED ARABIC-INDIC DIGIT SEVEN  
 • Urdu and Sindhi have glyphs different from Arabic  
 06F8 ٨ EXTENDED ARABIC-INDIC DIGIT EIGHT  
 06F9 ٩ EXTENDED ARABIC-INDIC DIGIT NINE

**Extended Arabic letters**

















































































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

**Signs for Sindhi**

- 06FD ﺀ ARABIC SIGN SINDHI AMPERSAND  
 06FE ﺀ ARABIC SIGN SINDHI POSTPOSITION MEN

**Extended Arabic letter for Parkari**

- 06FF ﺀ ARABIC LETTER HEH WITH INVERTED V

	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	 070E	 071E	 072E	 073E	 074E
F	 070F	 071F	 072F	 073F	 074F



**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 SAM SYRIAC ABBREVIATION MARK  
= SAM  
• marks the beginning of a Syriac abbreviation

**Syriac letters**

- 0710 Ⲁ SYRIAC LETTER ALAPH
- 0711 Ⲁ̇ SYRIAC LETTER SUPERSCRIPED ALAPH  
• used in East Syriac texts to indicate an etymological Alaph
- 0712 Ⲃ SYRIAC LETTER BETH
- 0713 Ⲅ SYRIAC LETTER GAMAL
- 0714 Ⲅ̇ SYRIAC LETTER GAMAL GARSHUNI  
• used in Garshuni documents
- 0715 Ⲇ SYRIAC LETTER DALATH
- 0716 Ⲇ̇ SYRIAC LETTER DOTLESS DALATH RISH  
• ambiguous form for undifferentiated early dalath/rish
- 0717 Ⲉ SYRIAC LETTER HE
- 0718 Ⲋ SYRIAC LETTER WAW
- 0719 Ⲍ SYRIAC LETTER ZAIN
- 071A Ⲏ SYRIAC LETTER HETH
- 071B Ⲑ SYRIAC LETTER TETH
- 071C Ⲑ̇ SYRIAC LETTER TETH GARSHUNI  
• used in Garshuni documents
- 071D Ⲓ SYRIAC LETTER YUDH

- 071E Ⲕ SYRIAC LETTER YUDH HE  
• mostly used in East Syriac texts
- 071F Ⲗ SYRIAC LETTER KAPH
- 0720 Ⲙ SYRIAC LETTER LAMADH
- 0721 Ⲛ SYRIAC LETTER MIM
- 0722 Ⲝ SYRIAC LETTER NUN
- 0723 Ⲟ SYRIAC LETTER SEMKATH
- 0724 Ⲟ̇ SYRIAC LETTER FINAL SEMKATH
- 0725 Ⲡ SYRIAC LETTER E
- 0726 ⲡ SYRIAC LETTER PE
- 0727 ⲡ̇ SYRIAC LETTER REVERSED PE  
• used in Christian Palestinian Aramaic
- 0728 ⲣ SYRIAC LETTER SADHE
- 0729 ⲥ SYRIAC LETTER QAPH
- 072A ⲧ SYRIAC LETTER RISH
- 072B ⲩ SYRIAC LETTER SHIN
- 072C ⲫ SYRIAC LETTER TAW

**Persian letters**

- 072D ⲭ SYRIAC LETTER PERSIAN BHETH
- 072E ⲭ̇ SYRIAC LETTER PERSIAN GHAMAL
- 072F ⲭ̈ SYRIAC LETTER PERSIAN DHALATH

**Syriac points (vowels)**

- 0730 Ⲱ SYRIAC PTHAHA ABOVE
- 0731 ⲱ SYRIAC PTHAHA BELOW
- 0732 ⲱ̇ SYRIAC PTHAHA DOTTED
- 0733 Ⲳ SYRIAC ZQAPHA ABOVE
- 0734 ⲳ SYRIAC ZQAPHA BELOW
- 0735 ⲳ̇ SYRIAC ZQAPHA DOTTED
- 0736 Ⲵ SYRIAC RBASA ABOVE
- 0737 ⲵ SYRIAC RBASA BELOW
- 0738 ⲵ̇ SYRIAC DOTTED ZLAMA HORIZONTAL
- 0739 Ⲷ SYRIAC DOTTED ZLAMA ANGULAR
- 073A ⲷ SYRIAC HBASA ABOVE
- 073B Ⲹ SYRIAC HBASA BELOW
- 073C Ⲹ̇ SYRIAC HBASA-ESASA DOTTED
- 073D ⲹ SYRIAC ESASA ABOVE
- 073E Ⲻ SYRIAC ESASA BELOW
- 073F ⲻ SYRIAC RWAHA

**Syriac marks**

- 0740 Ⲽ SYRIAC FEMININE DOT  
• feminine marker used with the Taw feminine suffix
- 0741 ⲽ SYRIAC QUSHSHAYA  
• indicates a plosive pronunciation
- 0742 Ⲿ SYRIAC RUKKAKHA  
• indicates an aspirated (spirantized) pronunciation
- 0743 ⲿ SYRIAC TWO VERTICAL DOTS ABOVE  
• accent mark used in ancient manuscripts
- 0744 ⲿ̇ SYRIAC TWO VERTICAL DOTS BELOW  
• accent mark used in ancient manuscripts
- 0745 ⲿ̈ SYRIAC THREE DOTS ABOVE  
• diacritic used in Turoyo for letters not found in Syriac
- 0746 ⲿ̉ SYRIAC THREE DOTS BELOW  
• diacritic used in Turoyo for letters not found in Syriac
- 0747 ⲿ̊ SYRIAC OBLIQUE LINE ABOVE  
• indication of a silent letter

- 0748    𐤀   SYRIAC OBLIQUE LINE BELOW
- indication of a silent letter
  - also used to indicate numbers multiplied by a certain constant
- 0749    𐤁   SYRIAC MUSIC
- a music mark
  - also used in the Syrian Orthodox Anaphora book to mark the breaking of the Eucharist bread
- 074A    𐤂   SYRIAC BARREKH
- a diacritic cross used in liturgical texts

**Sogdian letters**

- 074D    𐤃   SYRIAC LETTER SOGDIAN ZHAIN
- 074E    𐤄   SYRIAC LETTER SOGDIAN KHAPH
- 074F    𐤅   SYRIAC LETTER SOGDIAN FE

	075	076	077
0	ي 0750	ف 0760	ث 0770
1	ب 0751	پ 0761	ڑ 0771
2	پ 0752	ک 0762	ح 0772
3	ت 0753	گ 0763	آ 0773
4	ن 0754	ک 0764	آ 0774
5	ب 0755	م 0765	ی 0775
6	ٲ 0756	م 0766	ی 0776
7	خ 0757	ن 0767	ی 0777
8	چ 0758	ن 0768	و 0778
9	ڀ 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	ق 077F

**Extended Arabic letters**

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

- 0750 ي ARABIC LETTER BEH WITH THREE DOTS HORIZONTALLY BELOW
- 0751 ب ARABIC LETTER BEH WITH DOT BELOW AND THREE DOTS ABOVE
- 0752 پ ARABIC LETTER BEH WITH THREE DOTS POINTING UPWARDS BELOW
- 0753 پ ARABIC LETTER BEH WITH THREE DOTS POINTING UPWARDS BELOW AND TWO DOTS ABOVE
- 0754 ب ARABIC LETTER BEH WITH TWO DOTS BELOW AND DOT ABOVE
- 0755 پ ARABIC LETTER BEH WITH INVERTED SMALL V BELOW
- 0756 ن ARABIC LETTER BEH WITH SMALL V
- 0757 خ ARABIC LETTER HAH WITH TWO DOTS ABOVE
- 0758 ح ARABIC LETTER HAH WITH THREE DOTS POINTING UPWARDS BELOW
- 0759 ذ ARABIC LETTER DAL WITH TWO DOTS VERTICALLY BELOW AND SMALL TAH
- Saraiki
- 075A د 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 ع ARABIC LETTER AIN WITH THREE DOTS POINTING DOWNWARDS ABOVE
- 075F ع ARABIC LETTER AIN WITH TWO DOTS VERTICALLY ABOVE
- 0760 ف ARABIC LETTER FEH WITH TWO DOTS BELOW
- 0761 ف ARABIC LETTER FEH WITH THREE DOTS POINTING UPWARDS BELOW
- 0762 ك ARABIC LETTER KEHEH WITH DOT ABOVE
- old Malay, preferred to 06AC ك
  - 06AC ك arabic letter kaf with dot above
- 0763 ك ARABIC LETTER KEHEH WITH THREE DOTS ABOVE
- Moroccan Arabic, Amazigh, Burushaski
  - 06AD ك arabic letter ng
- 0764 ك ARABIC LETTER KEHEH WITH THREE DOTS POINTING UPWARDS BELOW
- 0765 م ARABIC LETTER MEEM WITH DOT ABOVE
- 0766 م ARABIC LETTER MEEM WITH DOT BELOW
- Maba
- 0767 ن ARABIC LETTER NOON WITH TWO DOTS BELOW
- Arwi
- 0768 ن ARABIC LETTER NOON WITH SMALL TAH
- Saraiki, Pathwari
- 0769 ن ARABIC LETTER NOON WITH SMALL V
- Gojri
- 076A ل ARABIC LETTER LAM WITH BAR
- 076B ر ARABIC LETTER REH WITH TWO DOTS VERTICALLY ABOVE
- Torwali, Ormuri
- 076C ر ARABIC LETTER REH WITH HAMZA ABOVE
- Ormuri
- 076D ش ARABIC LETTER SEEN WITH TWO DOTS VERTICALLY ABOVE
- Kalami, Ormuri

**Additions for Khowar**

- 076E ح ARABIC LETTER HAH WITH SMALL ARABIC LETTER TAH BELOW
- 076F ح ARABIC LETTER HAH WITH SMALL ARABIC LETTER TAH AND TWO DOTS
- 0770 ش ARABIC LETTER SEEN WITH SMALL ARABIC LETTER TAH AND TWO DOTS
- 0771 ذ ARABIC LETTER REH WITH SMALL ARABIC LETTER TAH AND TWO DOTS

**Addition for Torwali**



















































- 0772 خ ARABIC LETTER HAH WITH SMALL ARABIC LETTER TAH ABOVE

**Additions for Burushaski**

- 0773 ١ ARABIC LETTER ALEF WITH EXTENDED ARABIC-INDIC DIGIT TWO ABOVE
- 0774 ١ ARABIC LETTER ALEF WITH EXTENDED ARABIC-INDIC DIGIT THREE ABOVE
- 0775 ٢ ARABIC LETTER FARSI YEH WITH EXTENDED ARABIC-INDIC DIGIT TWO ABOVE
- 0776 ٢ ARABIC LETTER FARSI YEH WITH EXTENDED ARABIC-INDIC DIGIT THREE ABOVE
- 0777 ٣ ARABIC LETTER FARSI YEH WITH EXTENDED ARABIC-INDIC DIGIT FOUR BELOW
- 0778 و ARABIC LETTER WAW WITH EXTENDED ARABIC-INDIC DIGIT TWO ABOVE
- 0779 و ARABIC LETTER WAW WITH EXTENDED ARABIC-INDIC DIGIT THREE ABOVE
- 077A ع ARABIC LETTER YEH BARREE WITH EXTENDED ARABIC-INDIC DIGIT TWO ABOVE
- 077B ع ARABIC LETTER YEH BARREE WITH EXTENDED ARABIC-INDIC DIGIT THREE ABOVE
- 077C ح ARABIC LETTER HAH WITH EXTENDED ARABIC-INDIC DIGIT FOUR BELOW
- 077D ش ARABIC LETTER SEEN WITH EXTENDED ARABIC-INDIC DIGIT FOUR ABOVE

**Additions for early Persian**

- 077E ش ARABIC LETTER SEEN WITH INVERTED V
- 077F ك 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 AABAAFILI
07A8	✓	THAANA IBIFILI
07A9	✓	THAANA EEBEEFILI
07AA	✓	THAANA UBUFILI
07AB	✓	THAANA OBOOFILI
07AC	✓	THAANA EBEFILI
07AD	✓	THAANA EYBEFILI
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	
C	 07CC	 07DC	 07EC	
D	 07CD	 07DD	 07ED	
E	 07CE	 07DE	 07EE	
F	 07CF	 07DF	 07EF	

**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	I	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	BA	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	RRRA	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	NA WOLOS	NKO LETTER NA WOLOS
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	NYA WOLOS	NKO LETTER NYA WOLOS

**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	SHORT HIGH TONE	NKO COMBINING SHORT HIGH TONE
		→ 0304 ̄ combining macron
07EC	SHORT LOW TONE	NKO COMBINING SHORT LOW TONE
		→ 0303 ̂ combining tilde
07ED	SHORT RISING TONE	NKO COMBINING SHORT RISING TONE
		→ 0307 ̆ combining dot above
07EE	LONG DESCENDING TONE	NKO COMBINING LONG DESCENDING TONE
		→ 0302 ̈ combining circumflex accent
07EF	LONG HIGH TONE	NKO COMBINING LONG HIGH TONE
07F0	LONG LOW TONE	NKO COMBINING LONG LOW TONE
07F1	LONG RISING TONE	NKO COMBINING LONG RISING TONE

07F2	NASALIZATION MARK	NKO COMBINING NASALIZATION MARK
		→ 0323 ̣ combining dot below
07F3	DOUBLE DOT ABOVE	NKO COMBINING DOUBLE DOT ABOVE
		→ 0308 ̥ combining diaeresis
07F4	HIGH TONE APOSTROPHE	NKO HIGH TONE APOSTROPHE
		→ 02BC ’ modifier letter apostrophe
07F5	LOW TONE APOSTROPHE	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

	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



**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 OCCLUSION
0819	𐤙	SAMARITAN MARK DAGESH
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	𐤮	SAMARITAN PUNCTUATION NEQUDAA = word separator
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0831	𐤯	SAMARITAN PUNCTUATION AFSAAQ = interruption
0832	𐤰	SAMARITAN PUNCTUATION ANGED = restraint
0833	𐤱	SAMARITAN PUNCTUATION BAU = prayer
0834	𐤲	SAMARITAN PUNCTUATION ATMAAU = surprise
0835	𐤳	SAMARITAN PUNCTUATION SHIYYAALAA = question
0836	𐤴	SAMARITAN ABBREVIATION MARK
0837	𐤵	SAMARITAN PUNCTUATION MELODIC QITSA
0838	𐤶	SAMARITAN PUNCTUATION ZIQAA = shouting
0839	𐤷	SAMARITAN PUNCTUATION QITSA = end of section
083A	𐤸	SAMARITAN PUNCTUATION ZAEF = outburst
083B	𐤹	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	ॐ 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	ँ 0972
3	ः 0903	ओ 0913	ण 0923	ळ 0933	ॣ 0943	े 0953	। 0963	अ 0973
4	ऐ 0904	औ 0914	त 0924	ॢ 0934	॥ 0944	े 0954	। 0964	आ 0974
5	अ 0905	क 0915	थ 0925	व 0935	ँ 0945	ँ 0955	॥ 0965	औ 0975
6	आ 0906	ख 0916	द 0926	श 0936	े 0946	ॢ 0956	० 0966	अ 0976
7	इ 0907	ग 0917	ध 0927	ष 0937	े 0947	ॣ 0957	१ 0967	अ 0977
8	ई 0908	घ 0918	न 0928	स 0938	ै 0948	ॠ 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	ं 093A	ो 094A	ग 095A	४ 096A	ष 097A
B	ऋ 090B	ॡ 091B	फ 092B	ी 093B	ो 094B	ज़ 095B	५ 096B	ग 097B
C	ॡ 090C	ज 091C	ब 092C	ॢ 093C	ौ 094C	ड 095C	६ 096C	ज़ 097C
D	ँ 090D	झ 091D	भ 092D	ॣ 093D	॥ 094D	ढ 095D	७ 096D	१ 097D
E	ऐ 090E	ञ 091E	म 092E	ा 093E	ि 094E	फ 095E	८ 096E	ड 097E
F	ए 090F	ट 091F	य 092F	ि 093F	ौ 094F	य 095F	९ 096F	ब 097F

**Various signs**

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

**Independent vowels**

- 0904 ऐ DEVANAGARI LETTER SHORT A
- 0905 अ DEVANAGARI LETTER A
- 0906 आ DEVANAGARI LETTER AA
- 0907 इ DEVANAGARI LETTER I
- 0908 ई DEVANAGARI LETTER II
- 0909 उ DEVANAGARI LETTER U
- 090A ऊ DEVANAGARI LETTER UU
- 090B ऋ DEVANAGARI LETTER VOCALIC R
- 090C ॠ DEVANAGARI LETTER VOCALIC L
- 090D ऐ DEVANAGARI LETTER CANDRA E
- 090E ऋ DEVANAGARI LETTER SHORT E  
• for transcribing Dravidian short e
- 090F ए DEVANAGARI LETTER E
- 0910 ऐ DEVANAGARI LETTER AI
- 0911 ओ DEVANAGARI LETTER CANDRA O
- 0912 औ DEVANAGARI LETTER SHORT O  
• for transcribing Dravidian short o
- 0913 ओ DEVANAGARI LETTER O
- 0914 औ DEVANAGARI LETTER AU

**Consonants**

- 0915 क DEVANAGARI LETTER KA
- 0916 ख DEVANAGARI LETTER KHA
- 0917 ग DEVANAGARI LETTER GA
- 0918 घ DEVANAGARI LETTER GHA
- 0919 ङ DEVANAGARI LETTER NGA
- 091A च DEVANAGARI LETTER CA
- 091B छ DEVANAGARI LETTER CHA
- 091C ज DEVANAGARI LETTER JA
- 091D झ DEVANAGARI LETTER JHA
- 091E ञ DEVANAGARI LETTER NYA
- 091F ट DEVANAGARI LETTER TTA
- 0920 ठ DEVANAGARI LETTER TTHA
- 0921 ड DEVANAGARI LETTER DDA
- 0922 ढ DEVANAGARI LETTER DDHA
- 0923 ण DEVANAGARI LETTER NNA
- 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 ण DEVANAGARI LETTER NNNA  
• for transcribing Dravidian alveolar n  
≡ 0928 न 093C ॠ
- 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 ॠ DEVANAGARI LETTER RRA  
• for transcribing Dravidian alveolar r  
• half form is represented as “Eyelash RA”  
≡ 0930 र 093C ॠ
- 0932 ल DEVANAGARI LETTER LA
- 0933 ॡ DEVANAGARI LETTER LLA
- 0934 ॢ DEVANAGARI LETTER LLLA  
• for transcribing Dravidian l  
≡ 0933 ॡ 093C ॠ
- 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

**Vowel signs**

- 093A ॠ DEVANAGARI VOWEL SIGN OE
- 093B ॡ DEVANAGARI VOWEL SIGN OOE

**Various signs**

- 093C ॠ DEVANAGARI SIGN NUKTA  
• for extending the alphabet to new letters
- 093D ऌ DEVANAGARI SIGN AVAGRAHA

**Dependent vowel signs**

- 093E ॠ DEVANAGARI VOWEL SIGN AA
- 093F ॡ 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 ० DEVANAGARI VOWEL SIGN VOCALIC RR
- 0945 ॠ DEVANAGARI VOWEL SIGN CANDRA E  
= candra
- 0946 ॡ DEVANAGARI VOWEL SIGN SHORT E  
• for transcribing Dravidian vowels
- 0947 ॢ DEVANAGARI VOWEL SIGN E
- 0948 ॣ DEVANAGARI VOWEL SIGN AI
- 0949 । DEVANAGARI VOWEL SIGN CANDRA O
- 094A ॥ DEVANAGARI VOWEL SIGN SHORT O  
• for transcribing Dravidian vowels
- 094B ० DEVANAGARI VOWEL SIGN O
- 094C ॠ DEVANAGARI VOWEL SIGN AU

**Virama**

- 094D ॠ DEVANAGARI SIGN VIRAMA  
= halant (the preferred Hindi name)  
• suppresses inherent vowel

**Archaic dependent vowel sign**

- 094E ॠ 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
- 094F ॡ DEVANAGARI VOWEL SIGN AW

**Sign**

- 0950 ॠ DEVANAGARI OM

**Vedic tone marks**

- 0951 ॐ DEVANAGARI STRESS SIGN UDATTA  
= Vedic tone svarita  
• mostly used for Rigvedic svarita, with rare use for Yajurvedic udatta  
• used also in Vedic texts written in other scripts  
→ 1CDA ॐ vedic tone double svarita
- 0952 ॐ DEVANAGARI STRESS SIGN ANUDATTA  
= Vedic tone anudatta  
• used also in Vedic texts written in other scripts  
→ 1CDC ॐ vedic tone kathaka anudatta

**Accent marks**

- 0953 ॐ DEVANAGARI GRAVE ACCENT  
→ 0300 ॐ combining grave accent
- 0954 ॐ DEVANAGARI ACUTE ACCENT  
→ 0301 ॐ combining acute accent
- 0955 ॐ DEVANAGARI VOWEL SIGN CANDRA LONG E  
• used in transliteration of Avestan
- 0956 ॐ DEVANAGARI VOWEL SIGN UE
- 0957 ॐ DEVANAGARI VOWEL SIGN UUE

**Additional consonants**

- 0958 क DEVANAGARI LETTER QA  
≡ 0915 क 093C ॐ
- 0959 ख DEVANAGARI LETTER KHHA  
≡ 0916 ख 093C ॐ
- 095A ग DEVANAGARI LETTER GHHA  
≡ 0917 ग 093C ॐ
- 095B ज DEVANAGARI LETTER ZA  
≡ 091C ज 093C ॐ
- 095C ङ DEVANAGARI LETTER DDDHA  
≡ 0921 ङ 093C ॐ
- 095D ढ DEVANAGARI LETTER RHA  
≡ 0922 ढ 093C ॐ
- 095E फ DEVANAGARI LETTER FA  
≡ 092B फ 093C ॐ
- 095F य DEVANAGARI LETTER YYA  
≡ 092F य 093C ॐ

**Additional vowels for Sanskrit**

- 0960 ऋ DEVANAGARI LETTER VOCALIC RR
- 0961 ॠ DEVANAGARI LETTER VOCALIC LL
- 0962 ॡ DEVANAGARI VOWEL SIGN VOCALIC L
- 0963 ॢ DEVANAGARI VOWEL SIGN VOCALIC LL

**Generic punctuation for scripts of India**

*These punctuation marks are for common use for the scripts of India despite being named "DEVANAGARI".*

- 0964 । DEVANAGARI DANDA  
= purna viram  
• phrase separator
- 0965 ॥ DEVANAGARI DOUBLE DANDA  
= deergh viram

**Digits**

- 0966 ० DEVANAGARI DIGIT ZERO
- 0967 १ DEVANAGARI DIGIT ONE
- 0968 २ DEVANAGARI DIGIT TWO
- 0969 ३ DEVANAGARI DIGIT THREE
- 096A ४ DEVANAGARI DIGIT FOUR
- 096B ५ DEVANAGARI DIGIT FIVE
- 096C ६ DEVANAGARI DIGIT SIX
- 096D ७ DEVANAGARI DIGIT SEVEN

096E ८ DEVANAGARI DIGIT EIGHT

096F ९ DEVANAGARI DIGIT NINE

**Devanagari-specific additions**

- 0970 ॰ DEVANAGARI ABBREVIATION SIGN
- 0971 ˙ DEVANAGARI SIGN HIGH SPACING DOT

**Additional vowel for Marathi**

- 0972 ॡ DEVANAGARI LETTER CANDRA A  
• Marathi

**Letters**

- 0973 ॢ DEVANAGARI LETTER OE
- 0974 ॣ DEVANAGARI LETTER OOE
- 0975 । DEVANAGARI LETTER AW
- 0976 ॥ DEVANAGARI LETTER UE
- 0977 ० DEVANAGARI LETTER UUE

**Additional consonants**

- 0979 ॠ DEVANAGARI LETTER ZHA  
• used in transliteration of Avestan
- 097A ॡ DEVANAGARI LETTER HEAVY YA  
• used for an affricated glide JJYA

**Sindhi implosives**

- 097B ॢ DEVANAGARI LETTER GGA
- 097C ॣ DEVANAGARI LETTER JJA

**Glottal stop**

- 097D । DEVANAGARI LETTER GLOTTAL STOP  
• used for writing Limbu in Devanagari  
• a glyph variant has the connecting top bar

**Sindhi implosives**

- 097E ॥ DEVANAGARI LETTER DDDA
- 097F ० DEVANAGARI LETTER BBA

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

**Various signs**

0981	ঐ	BENGALI SIGN CANDRABINDU
0982	ঐ	BENGALI SIGN ANUSVARA
0983	ঐ	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	ঌ	BENGALI LETTER VOCALIC L
098D	◻	<reserved>
098E	◻	<reserved>
098F	এ	BENGALI LETTER E
0990	ঐ	BENGALI LETTER AI
0991	◻	<reserved>
0992	◻	<reserved>
0993	ও	BENGALI LETTER O
0994	ঔ	BENGALI LETTER AU

**Consonants**

0995	ক	BENGALI LETTER KA
0996	খ	BENGALI LETTER KHA
0997	গ	BENGALI LETTER GA
0998	ঘ	BENGALI LETTER GHA
0999	ঙ	BENGALI LETTER NGA
099A	চ	BENGALI LETTER CA
099B	ছ	BENGALI LETTER CHA
099C	জ	BENGALI LETTER JA
099D	ঝ	BENGALI LETTER JHA
099E	ঞ	BENGALI LETTER NYA
099F	ট	BENGALI LETTER TTA
09A0	ঠ	BENGALI LETTER TTHA
09A1	ড	BENGALI LETTER DDA
09A2	ঢ	BENGALI LETTER DDHA
09A3	ণ	BENGALI LETTER NNA
09A4	ত	BENGALI LETTER TA
09A5	থ	BENGALI LETTER THA
09A6	দ	BENGALI LETTER DA
09A7	ধ	BENGALI LETTER DHA
09A8	ন	BENGALI LETTER NA
09A9	◻	<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	◻	<reserved>
09B2	ল	BENGALI LETTER LA
09B3	◻	<reserved>
09B4	◻	<reserved>
09B5	◻	<reserved>
09B6	শ	BENGALI LETTER SHA
09B7	ষ	BENGALI LETTER SSA
09B8	স	BENGALI LETTER SA
09B9	হ	BENGALI LETTER HA

**Various signs**

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

**Dependent vowel signs**

09BE	ঐ	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	◻	<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 ঐ
09CC	ৈঁ	BENGALI VOWEL SIGN AU ≡ 09C7 ৈ 09D7 ঔ

**Virama**

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

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

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

09DC	৚	BENGALI LETTER RRA ≡ 09A1 ড 09BC ৗ
09DD	ঢ	BENGALI LETTER RHA ≡ 09A2 ঢ 09BC ৗ
09DE	◻	<reserved>
09DF	য	BENGALI LETTER YYA ≡ 09AF য 09BC ৗ

**Additional vowels for Sanskrit**

09E0	ঋ	BENGALI LETTER VOCALIC RR
09E1	ঌ	BENGALI LETTER VOCALIC LL
09E2	ৄ	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	০	BENGALI DIGIT ZERO
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09E7	১	BENGALI DIGIT ONE
09E8	২	BENGALI DIGIT TWO
09E9	৩	BENGALI DIGIT THREE
09EA	৪	BENGALI DIGIT FOUR
09EB	৫	BENGALI DIGIT FIVE
09EC	৬	BENGALI DIGIT SIX
09ED	৭	BENGALI DIGIT SEVEN
09EE	৮	BENGALI DIGIT EIGHT
09EF	৯	BENGALI DIGIT NINE

**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	৴	BENGALI RUPEE MARK
09F3	৵	BENGALI RUPEE SIGN
09F4	৶	BENGALI CURRENCY NUMERATOR ONE
		• not in current usage
09F5	৷	BENGALI CURRENCY NUMERATOR TWO
		• not in current usage
09F6	৸	BENGALI CURRENCY NUMERATOR THREE
		• not in current usage
09F7	৹	BENGALI CURRENCY NUMERATOR FOUR
09F8	৺	BENGALI CURRENCY NUMERATOR ONE LESS THAN THE DENOMINATOR
09F9	৻	BENGALI CURRENCY DENOMINATOR SIXTEEN
09FA	ৼ	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		੍ਰ 0A41	੍ਰ 0A51		ੱ 0A71
2	ੰ 0A02		ਢ 0A22	ਲ 0A32	੍ਰ 0A42			ੲ 0A72
3	ੰ 0A03	ਓ 0A13	ਣ 0A23	ਲ਼ 0A33				ਉ 0A73
4		ਐ 0A14	ਤ 0A24					ੳ 0A74
5	ਅ 0A05	ਕ 0A15	ਥ 0A25	ਵ 0A35				੍ਰ 0A75
6	ਆ 0A06	ਖ 0A16	ਦ 0A26	ਸ਼ 0A36			ੳ 0A66	
7	ਇ 0A07	ਗ 0A17	ਧ 0A27		ੇ 0A47		ੲ 0A67	
8	ਈ 0A08	ਘ 0A18	ਨ 0A28	ਸ਼ 0A38	ੈ 0A48		ੲ 0A68	
9	ਉ 0A09	ਛ 0A19		ਹ 0A39		ਖ਼ 0A59	ੳ 0A69	
A	ਉ 0A0A	ਚ 0A1A	ਪ 0A2A			ਗ਼ 0A5A	ੳ 0A6A	
B		ਛ 0A1B	ਫ਼ 0A2B		ੋ 0A4B	ਜ਼ 0A5B	ਪ਼ 0A6B	
C		ਜ਼ 0A1C	ਬ਼ 0A2C	਼ 0A3C	ੌ 0A4C	ੲ 0A5C	ੲ 0A6C	
D		ੲ 0A1D	ਭ 0A2D		੍ਰ 0A4D		ੳ 0A6D	
E		ੲ 0A1E	ਮ਼ 0A2E	ਾ 0A3E		ਫ਼ 0A5E	ੲ 0A6E	
F	ੲ 0A0F	ਟ 0A1F	ਯ 0A2F	ਿ 0A3F			ੲ 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	ਆ	GURMUKHI LETTER AA
0A07	ਇ	GURMUKHI LETTER I
0A08	ਈ	GURMUKHI LETTER II
0A09	ਉ	GURMUKHI LETTER U
0A0A	ਊ	GURMUKHI LETTER UU
0A0B	◌̐	<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 ਲ਼ 0A3C ੜ
0A34	◌̎	<reserved>
0A35	ਵ	GURMUKHI LETTER VA
0A36	ਸ਼	GURMUKHI LETTER SHA ≡ 0A38 ਸ਼ 0A3C ੱ
0A37	◌̏	<reserved>

0A38	ਸ਼	GURMUKHI LETTER SA
0A39	ਹ਼	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	◌̠	GURMUKHI SIGN VIRAMA
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**Sign**

0A51	◌̡	GURMUKHI SIGN UDAAT
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**Additional consonants**

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

**Reserved**

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

0A64	◌̤	<reserved> → 0964 I devanagari danda
0A65	◌̥	<reserved> → 0965 II devanagari double danda

**Digits**

0A66	੦	GURMUKHI DIGIT ZERO
0A67	੧	GURMUKHI DIGIT ONE
0A68	੨	GURMUKHI DIGIT TWO
0A69	੩	GURMUKHI DIGIT THREE
0A6A	੪	GURMUKHI DIGIT FOUR

0A6B	ੴ	GURMUKHI DIGIT FIVE
0A6C	ੴ	GURMUKHI DIGIT SIX
0A6D	ੴ	GURMUKHI DIGIT SEVEN
0A6E	ੴ	GURMUKHI DIGIT EIGHT
0A6F	ੴ	GURMUKHI DIGIT NINE

**Gurmukhi-specific additions**

0A70	ੴ	GURMUKHI TIPPI
		• nasalization
0A71	ੴ	GURMUKHI ADDAK
		• doubles following consonant
0A72	ੴ	GURMUKHI IRI
		• base for vowels
0A73	ੴ	GURMUKHI URA
		• base for vowels
0A74	ੴ	GURMUKHI EK ONKAR
		• God is One
0A75	ੴ	GURMUKHI SIGN YAKASH

	0A8	0A9	0AA	0AB	0AC	0AD	0AE	0AF
0		ૐ 0A90	ઠ 0AA0	ર 0AB0	ી 0AC0	ૐ 0AD0	જી 0AE0	
1	ઁ 0A81	ઑ 0A91	ડ 0AA1		ુ 0AC1		જે 0AE1	૨૦ 0AF1
2	ં 0A82		ઢ 0AA2	લ 0AB2	ૂ 0AC2		જૂ 0AE2	
3	ઃ 0A83	ઔ 0A93	ણ 0AA3	ળ 0AB3	ૃ 0AC3		જૃ 0AE3	
4		઒ 0A94	ત 0AA4		ૄ 0AC4			
5	અ 0A85	ક 0A95	થ 0AA5	વ 0AB5	ે 0AC5			
6	આ 0A86	ખ 0A96	દ 0AA6	શ 0AB6			૦ 0AE6	
7	ઇ 0A87	ગ 0A97	ધ 0AA7	પ 0AB7	ે 0AC7		૧ 0AE7	
8	ઈ 0A88	ઘ 0A98	ન 0AA8	સ 0AB8	ૈ 0AC8		૨ 0AE8	
9	ઉ 0A89	ઙ 0A99		હ 0AB9	ૌ 0AC9		૩ 0AE9	
A	ઊ 0A8A	ચ 0A9A	પ 0AA9				૪ 0AEA	
B	ઝ 0A8B	છ 0A9B	ફ 0AAB		ૌ 0ACB		૫ 0AEB	
C	જ 0A8C	ઝ 0A9C	બ 0AAC	્ 0ABC	ૌ 0ACC		૬ 0AEC	
D	ઞ 0A8D	ઝ 0A9D	ભ 0AAD	ડ 0ABD	્ 0ACD		૭ 0AED	
E		ઞ 0A9E	મ 0AAE	ા 0ABE			૮ 0AEE	
F	એ 0A8F	ટ 0A9F	ય 0AAF	િ 0ABF			૯ 0AEF	

**Various signs**

0A81	ઁ	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	ઌ	GUJARATI VOWEL CANDRA E
0A8E	◻	<reserved>
0A8F	એ	GUJARATI LETTER E
0A90	ૐ	GUJARATI LETTER AI
0A91	ઐ	GUJARATI VOWEL CANDRA O
0A92	◻	<reserved>
0A93	઒	GUJARATI LETTER O
0A94	ઔ	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	ષ	GUJARATI LETTER SSA
0AB8	સ	GUJARATI LETTER SA
0AB9	હ	GUJARATI LETTER HA

**Various signs**

0ABC	◌્	GUJARATI SIGN NUKTA
		• for extending the alphabet to new letters
0ABD	◌ઃ	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	◌૆	GUJARATI VOWEL SIGN VOCALIC RR
0AC5	◌ે	GUJARATI VOWEL SIGN CANDRA E
0AC6	◻	<reserved>
0AC7	◌ૈ	GUJARATI VOWEL SIGN E
0AC8	◌ૉ	GUJARATI VOWEL SIGN AI
0AC9	◌ૐ	GUJARATI VOWEL SIGN CANDRA O
0ACA	◻	<reserved>
0ACB	◌૑	GUJARATI VOWEL SIGN O
0ACC	◌૒	GUJARATI VOWEL SIGN AU

**Virama**

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

0AD0	ૐ	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	◌ૄ̣	GUJARATI VOWEL SIGN VOCALIC LL

**Reserved**

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













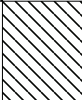


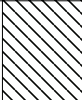


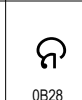
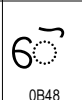










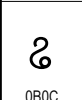





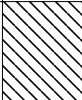

0AE4	◻	<reserved>
		→ 0964 I devanagari danda
0AE5	◻	<reserved>
		→ 0965 II devanagari double danda

**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		ଏ 0B10	ଠ 0B20	ର 0B30	଼ 0B40		ଝ 0B60	✓ 0B70
1	ଂ 0B01		ଡ 0B21		ୃ 0B41		ଢ 0B61	ଝି 0B71
2	ଃ 0B02		ଣ 0B22	ଳ 0B32	ୂ 0B42		ଢ଼ 0B62	ଞ 0B72
3	ଃଠ 0B03	ଓ 0B13	ଶ 0B23	ଲ 0B33	ୃ଼ 0B43		ଢ଼ି 0B63	ଞି 0B73
4		ଐ 0B14	ତ 0B24		ୂ଼ 0B44			ଞି଼ 0B74
5	ଅ 0B05	କ 0B15	ଥ 0B25	ବ 0B35				ଞି଼ି 0B75
6	ଆ 0B06	ଖ 0B16	ଦ 0B26	ଗ 0B36		଼ି 0B56	ଠ 0B66	ଞି଼ି଼ 0B76
7	ଇ 0B07	ଗ 0B17	ଧ 0B27	ଞ 0B37	େ 0B47	ୈ 0B57	୧ 0B67	ଞି଼ି଼ି 0B77
8	ଈ 0B08	ଘ 0B18	ନ 0B28	ଝ 0B38	ୌ 0B48		୨ 0B68	
9	ଉ 0B09	ଢ 0B19		ଞି 0B39			୩ 0B69	
A	ଊ 0B0A	ଟ 0B1A	ପ 0B2A				୪ 0B6A	
B	ଋ 0B0B	ଛ 0B1B	ଫ 0B2B		ୋ 0B4B		୫ 0B6B	
C	ୠ 0B0C	ଜ 0B1C	ବ 0B2C	଼ି 0B3C	ୌ 0B4C	ଡ଼ 0B5C	୬ 0B6C	
D		ଢ 0B1D	ଭ 0B2D	଼ି଼ 0B3D	ୂ଼ି 0B4D	ଡ଼ି 0B5D	୭ 0B6D	
E		ଞି଼ି଼ି 0B1E	ମ 0B2E	ା 0B3E			୮ 0B6E	
F	ଏ 0B0F	ଟ 0B1F	ଧ 0B2F	ି 0B3F		ଝି଼ 0B5F	୯ 0B6F	

**Various signs**

0B01	୦	ORIYA SIGN CANDRABINDU
0B02	ୠ	ORIYA SIGN ANUSVARA
0B03	ୡ	ORIYA SIGN VISARGA

**Independent vowels**

0B05	ଅ	ORIYA LETTER A
0B06	ଆ	ORIYA LETTER AA
0B07	ଇ	ORIYA LETTER I
0B08	ଈ	ORIYA LETTER II
0B09	ଉ	ORIYA LETTER U
0B0A	ଊ	ORIYA LETTER UU
0B0B	ଋ	ORIYA LETTER VOCALIC R
0B0C	ୠ	ORIYA LETTER VOCALIC L
0B0D	ୡ	<reserved>
0B0E	ୢ	<reserved>
0B0F	ଏ	ORIYA LETTER E
0B10	ଐ	ORIYA LETTER AI
0B11	ୣ	<reserved>
0B12	୤	<reserved>
0B13	ଓ	ORIYA LETTER O
0B14	ଔ	ORIYA LETTER AU

**Consonants**

0B15	କ	ORIYA LETTER KA
0B16	ଖ	ORIYA LETTER KHA
0B17	ଗ	ORIYA LETTER GA
0B18	ଘ	ORIYA LETTER GHA
0B19	ଙ	ORIYA LETTER NGA
0B1A	ଚ	ORIYA LETTER CA
0B1B	ଛ	ORIYA LETTER CHA
0B1C	ଜ	ORIYA LETTER JA
0B1D	ଝ	ORIYA LETTER JHA
0B1E	ଞ	ORIYA LETTER NYA
0B1F	ଟ	ORIYA LETTER TTA
0B20	ଠ	ORIYA LETTER TTHA
0B21	ଡ	ORIYA LETTER DDA
0B22	ଢ	ORIYA LETTER DDHA
0B23	ଣ	ORIYA LETTER NNA
0B24	ତ	ORIYA LETTER TA
0B25	ଥ	ORIYA LETTER THA
0B26	ଦ	ORIYA LETTER DA
0B27	ଧ	ORIYA LETTER DHA
0B28	ନ	ORIYA LETTER NA
0B29	ୡ	<reserved>
0B2A	ପ	ORIYA LETTER PA
0B2B	ଫ	ORIYA LETTER PHA
0B2C	ବ	ORIYA LETTER BA
		→ 0B35 ବ oriya letter va
0B2D	ଭ	ORIYA LETTER BHA
0B2E	ମ	ORIYA LETTER MA
0B2F	ୟ	ORIYA LETTER YA
		= ja
0B30	ର	ORIYA LETTER RA
0B31	ୡ	<reserved>
0B32	ଲ	ORIYA LETTER LA
0B33	ୢ	ORIYA LETTER LLA
0B34	ୣ	<reserved>
0B35	୤	ORIYA LETTER VA
		→ 0B2C ବ oriya letter ba
0B36	ଶ	ORIYA LETTER SHA
0B37	ଷ	ORIYA LETTER SSA

0B38	ସ	ORIYA LETTER SA
0B39	ହ	ORIYA LETTER HA

**Various signs**

0B3C	୦	ORIYA SIGN NUKTA
		• for extending the alphabet to new letters
0B3D	ୡ	ORIYA SIGN AVAGRAHA

**Dependent vowel signs**

0B3E	ୠ	ORIYA VOWEL SIGN AA
0B3F	ୡ	ORIYA VOWEL SIGN I
0B40	ୢ	ORIYA VOWEL SIGN II
0B41	ୣ	ORIYA VOWEL SIGN U
0B42	୤	ORIYA VOWEL SIGN UU
0B43	୥	ORIYA VOWEL SIGN VOCALIC R
0B44	୦	ORIYA VOWEL SIGN VOCALIC RR
0B45	ୡ	<reserved>
0B46	ୢ	<reserved>
0B47	ୣ	ORIYA VOWEL SIGN E
		• stands to the left of the consonant
0B48	୤	ORIYA VOWEL SIGN AI
		• pieces left of and above the consonant
		≡ 0B47 ୣ ୦B56 ୤

**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	୤ୠ	ORIYA VOWEL SIGN O
		≡ 0B47 ୣ ୦B3E ୠ
0B4C	୤ୢ	ORIYA VOWEL SIGN AU
		≡ 0B47 ୣ ୦B57 ୢ

**Virama**

0B4D	ୠ	ORIYA SIGN VIRAMA
------	---	-------------------

**Various signs**

0B56	ୠ	ORIYA AI LENGTH MARK
0B57	ୢ	ORIYA AU LENGTH MARK

**Additional consonants**

0B5C	ୡ	ORIYA LETTER RRA
		= dda
		≡ 0B21 ଡ 0B3C ୠ
0B5D	ୢ	ORIYA LETTER RHA
		= ddha
		≡ 0B22 ଢ 0B3C ୠ
0B5E	ୡ	<reserved>
0B5F	ୢ	ORIYA LETTER YYA
		= ya

**Additional vowels for Sanskrit**

0B60	ୠ	ORIYA LETTER VOCALIC RR
0B61	ୡ	ORIYA LETTER VOCALIC LL

**Dependent vowels**

0B62	ୠ	ORIYA VOWEL SIGN VOCALIC L
0B63	ୡ	ORIYA VOWEL SIGN VOCALIC LL

**Reserved**

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

0B64	ୡ	<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

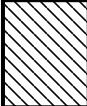
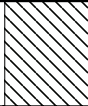

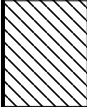
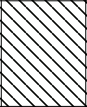
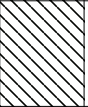
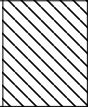
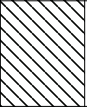

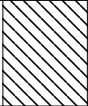
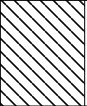
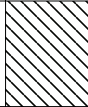
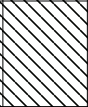


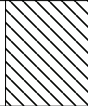
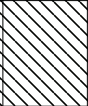


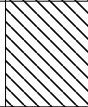
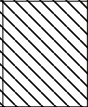

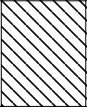

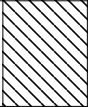

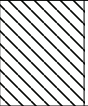
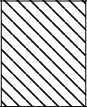
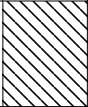
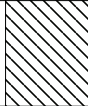
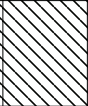
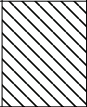
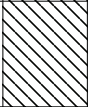
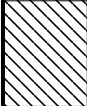
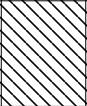

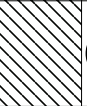
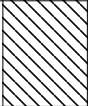



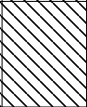
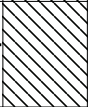

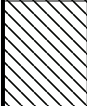
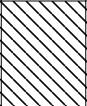

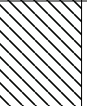
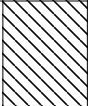

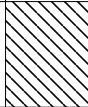
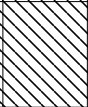

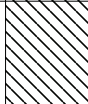
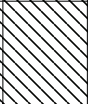

**Oriya-specific additions**

0B70	✓	ORIYA ISSHAR
0B71	ୱ	ORIYA LETTER WA
		→ 0B13 ଓ oriya letter o
		→ 0B35 ବ oriya letter va

**Fraction signs**

0B72	୧	ORIYA FRACTION ONE QUARTER
0B73	୧	ORIYA FRACTION ONE HALF
0B74	୩	ORIYA FRACTION THREE QUARTERS
0B75	୧	ORIYA FRACTION ONE SIXTEENTH
0B76	୧	ORIYA FRACTION ONE EIGHTH
0B77	୩	ORIYA FRACTION THREE SIXTEENTHS



	0B8	0B9	0BA	0BB	0BC	0BD	0BE	0BF
0		ஐ 0B90		ர 0BB0	ீ 0BC0	ஐ 0BD0		ய 0BF0
1				ற 0BB1	ு 0BC1			ள 0BF1
2	ஃ 0B82	ஒ 0B92		ல 0BB2	ூ 0BC2			சு 0BF2
3	ஃ 0B83	ஓ 0B93	ண 0BA3	ள 0BB3				உ 0BF3
4		ஔ 0B94	த 0BA4	ழ 0BB4				மீ 0BF4
5	அ 0B85	க 0B95		வ 0BB5				ஶ 0BF5
6	ஆ 0B86			ஸ 0BB6	ெ 0BC6		ஐ 0BE6	யு 0BF6
7	இ 0B87			ஷ 0BB7	ே 0BC7	்ள 0BD7	க 0BE7	ங் 0BF7
8	ஈ 0B88		ந 0BA8	ஸ 0BB8	ை 0BC8		உ 0BE8	ஷ் 0BF8
9	உ 0B89	ங் 0B99	ன 0BA9	ஹ 0BB9			ந் 0BE9	நீ 0BF9
A	ஊ 0B8A	ச 0B9A	ப 0BAA		ொ 0BCA		சு 0BEA	நீ 0BFA
B					ோ 0BCB		ரு 0BEB	
C		ஐ 0B9C			ெள 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	



**Tamil symbols**

0BF3 ன் TAMIL DAY SIGN  
= naal

0BF4 ம் TAMIL MONTH SIGN  
= maatham

0BF5 வருடம் TAMIL YEAR SIGN  
= varudam

0BF6 படி TAMIL DEBIT SIGN  
= patru

0BF7 வை TAMIL CREDIT SIGN  
= varavu

0BF8 மேற்படி 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	త 0C20	ర 0C30	్రి 0C40		ఋ 0C60	
1	ృ 0C01		డ 0C21	ఱ 0C31	ృ 0C41		ౠ 0C61	
2	ౄ 0C02	ఒ 0C12	థ 0C22	ల 0C32	్రి 0C42		ౡ 0C62	
3	౅ 0C03	ఓ 0C13	ణ 0C23	ళ 0C33	్రి 0C43		ౢ 0C63	
4		జ్ఞ 0C14	త 0C24		్రి 0C44			
5	ఱ 0C05	క 0C15	థ 0C25	వ 0C35		్రి 0C55		
6	ఱ 0C06	ఖ 0C16	ద 0C26	శ 0C36	్రి 0C46	్రి 0C56	ౄ 0C66	
7	ఱ 0C07	గ 0C17	ధ 0C27	భ 0C37	్రి 0C47		ౄ 0C67	
8	ఈ 0C08	ఘ 0C18	న 0C28	ప 0C38	్రి 0C48	ఱ 0C58	ౄ 0C68	ౄ 0C78
9	ఱ 0C09	ఙ 0C19		భ 0C39		ఱ 0C59	ౄ 0C69	ౄ 0C79
A	ఱ 0C0A	చ 0C1A	ప 0C2A		్రి 0C4A		ౄ 0C6A	ౄ 0C7A
B	ఱ 0C0B	ఛ 0C1B	ఫ 0C2B		్రి 0C4B		ౄ 0C6B	ౄ 0C7B
C	ృ 0C0C	జ 0C1C	బ 0C2C		్రి 0C4C		ౄ 0C6C	ౄ 0C7C
D		ఝ 0C1D	భ 0C2D	ౄ 0C3D	్రి 0C4D		ౄ 0C6D	ౄ 0C7D
E	ఎ 0C0E	ఱ 0C1E	మ 0C2E	్రి 0C3E			ౄ 0C6E	ౄ 0C7E
F	ప 0C0F	ట 0C1F	య 0C2F	్రి 0C3F			ౄ 0C6F	ౄ 0C7F

**Various signs**


0C01     TELUGU SIGN CANDRABINDU  
= arasunna

0C02     TELUGU SIGN ANUSVARA  
= sunna

0C03     TELUGU SIGN VISARGA


**Independent vowels**


0C05     TELUGU LETTER A


0C06     TELUGU LETTER AA


0C07     TELUGU LETTER I


0C08     TELUGU LETTER II

0C09     TELUGU LETTER U


0C0A     TELUGU LETTER UU


0C0B     TELUGU LETTER VOCALIC R


0C0C     TELUGU LETTER VOCALIC L


0C0D     <reserved>


0C0E     TELUGU LETTER E


0C0F     TELUGU LETTER EE

0C10     TELUGU LETTER AI

0C11     <reserved>

0C12     TELUGU LETTER O

0C13     TELUGU LETTER OO

0C14     TELUGU LETTER AU


**Consonants**


0C15     TELUGU LETTER KA


0C16     TELUGU LETTER KHA


0C17     TELUGU LETTER GA


0C18     TELUGU LETTER GHA


0C19     TELUGU LETTER NGA


0C1A     TELUGU LETTER CA


0C1B     TELUGU LETTER CHA

0C1C     TELUGU LETTER JA


0C1D     TELUGU LETTER JHA


0C1E     TELUGU LETTER NYA


0C1F     TELUGU LETTER TTA


0C20     TELUGU LETTER TTHA


0C21     TELUGU LETTER DDA


0C22     TELUGU LETTER DDHA


0C23     TELUGU LETTER NNA


0C24     TELUGU LETTER TA


0C25     TELUGU LETTER THA


0C26     TELUGU LETTER DA


0C27     TELUGU LETTER DHA


0C28     TELUGU LETTER NA


0C29     <reserved>


0C2A     TELUGU LETTER PA


0C2B     TELUGU LETTER PHA


0C2C     TELUGU LETTER BA


0C2D     TELUGU LETTER BHA


0C2E     TELUGU LETTER MA


0C2F     TELUGU LETTER YA


0C30     TELUGU LETTER RA


0C31     TELUGU LETTER RRA

0C32     TELUGU LETTER LA


0C33     TELUGU LETTER LLA

0C34     <reserved>

0C35     TELUGU LETTER VA

0C36     TELUGU LETTER SHA

0C37     TELUGU LETTER SSA

0C38     TELUGU LETTER SA

0C39    హ    TELUGU LETTER HA

**Addition for Sanskrit**

0C3D    ఎ    TELUGU SIGN AVAGRAHA

**Dependent vowel signs**

0C3E    ా    TELUGU VOWEL SIGN AA

0C3F    ి    TELUGU VOWEL SIGN I


0C40    ి    TELUGU VOWEL SIGN II

0C41    ు    TELUGU VOWEL SIGN U

0C42    ూ    TELUGU VOWEL SIGN UU

0C43    ృ    TELUGU VOWEL SIGN VOCALIC R

0C44    ౄ    TELUGU VOWEL SIGN VOCALIC RR


0C45     <reserved>

0C46    ౅    TELUGU VOWEL SIGN E

0C47    ె    TELUGU VOWEL SIGN EE

0C48    ే    TELUGU VOWEL SIGN AI

≡ 0C46 ె    0C56 ే

0C49     <reserved>

0C4A    ై    TELUGU VOWEL SIGN O

0C4B    ౉    TELUGU VOWEL SIGN OO

0C4C    ొ    TELUGU VOWEL SIGN AU

**Virama**

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

**Various signs**

0C55    ౌ    TELUGU LENGTH MARK

0C56    ్    TELUGU AI LENGTH MARK

**Historic phonetic variants**

0C58    ఠ    TELUGU LETTER TSA

0C59    డ    TELUGU LETTER DZA

**Additional vowels for Sanskrit**

0C60    ో    TELUGU LETTER VOCALIC RR

0C61    ౌ    TELUGU LETTER VOCALIC LL


**Dependent vowels**


0C62    ్    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    ౧    TELUGU FRACTION DIGIT ZERO FOR ODD  
POWERS OF FOUR

0C79    ౧    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		ಚ್ಚಾ 0CE1	ಱ 0CF1
2	ಂ 0C82	ಒ 0C92	ಢ 0CA2	ಲ 0CB2	ೈ 0CC2		್ಚ್ಚ 0CE2	ಂಂ 0CF2
3	ಃ 0C83	ಓ 0C93	ಐ 0CA3	ಳ 0CB3	ಾ 0CC3		್ಚ್ಚ 0CE3	
4		ಜ್ಜ 0C94	ಱ 0CA4		ೌ 0CC4			
5	ಱ 0C85	ಱ 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	ೇ 0CCC		ಱ 0CEC	
D		ಱ 0C9D	ಱ 0CAD	ಱ 0CBD	ೇ 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	





0CEF 𑌦 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 𑌧 KANNADA SIGN JIHVAMULIYA

- marks a velar fricative occurring only before unvoiced velar stops































→ 0F88 𑌧 tibetan sign lce tsa can

0CF2 ∞ KANNADA SIGN UPADHMANIYA

- marks a bilabial fricative occurring only before unvoiced labial stops

→ 0F89 ∞ tibetan sign mchu can

→ 1CF2 𑌧 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		ഠ 0D62	ൺ 0D72
3	ഌ 0D03	ഠ 0D13	ണ 0D23	ള 0D33	്യ 0D43		ഠ 0D63	ൺ 0D73
4		ഔ 0D14	ത 0D24	ഴ 0D34	്യ 0D44			ൽ 0D74
5	അ 0D05	ക 0D15	ഥ 0D25	വ 0D35				ൺ 0D75
6	ആ 0D06	ഖ 0D16	ഭ 0D26	ശ 0D36	െ 0D46		ഠ 0D66	
7	ഇ 0D07	ഗ 0D17	ധ 0D27	ഷ 0D37	േ 0D47	ൂ 0D57	ഥ 0D67	
8	ഈ 0D08	ഫ 0D18	ന 0D28	സ 0D38	ൈ 0D48		റ 0D68	
9	ഉ 0D09	ബ 0D19	ണ 0D29	ഹ 0D39			ന 0D69	ൺ 0D79
A	ഊ 0D0A	ച 0D1A	വ 0D2A	ഢി 0D3A	ൊ 0D4A		ർ 0D6A	ൺ 0D7A
B	ഈ 0D0B	ഛ 0D1B	ഫ 0D2B		ഌ 0D4B		ഠ 0D6B	ൺ 0D7B
C	ഈ 0D0C	ജ 0D1C	ബ 0D2C		ഌ 0D4C		ന 0D6C	ർ 0D7C
D		ത 0D1D	ഭ 0D2D	ഴ 0D3D	് 0D4D		ഠ 0D6D	ൽ 0D7D
E	എ 0D0E	ഞ 0D1E	മ 0D2E	ാ 0D3E	ാ 0D4E		വ 0D6E	ൾ 0D7E
F	എ 0D0F	ട 0D1F	യ 0D2F	ി 0D3F			ൺ 0D6F	ക 0D7F

**Various signs**

0D02	ൠ	MALAYALAM SIGN ANUSVARA
0D03	ൡ	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	ഌ	MALAYALAM LETTER VOCALIC R
0D0C	഍	MALAYALAM LETTER VOCALIC L
0D0D	൪	<reserved>
0D0E	എ	MALAYALAM LETTER E
0D0F	ഐ	MALAYALAM LETTER EE
0D10	ഐ	MALAYALAM LETTER AI
0D11	൪	<reserved>
0D12	ഓ	MALAYALAM LETTER O
0D13	ഔ	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	ഛ	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	ഠ	MALAYALAM LETTER TTHA = ttha
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 NNNA
0D2A	പ	MALAYALAM LETTER PA
0D2B	ഫ	MALAYALAM LETTER PHA
0D2C	ബ	MALAYALAM LETTER BA
0D2D	ഭ	MALAYALAM LETTER BHA
0D2E	മ	MALAYALAM LETTER MA

0D2F	യ	MALAYALAM LETTER YA
0D30	ര	MALAYALAM LETTER RA
0D31	റ	MALAYALAM LETTER RRA
0D32	ല	MALAYALAM LETTER LA
0D33	ള	MALAYALAM LETTER LLA
0D34	ഴ	MALAYALAM LETTER LLLA = 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	ॐ	MALAYALAM SIGN AVAGRAHA = praslesham
------	---	---

**Dependent vowel signs**

0D3E	ഌ	MALAYALAM VOWEL SIGN AA
0D3F	഍	MALAYALAM VOWEL SIGN I
0D40	ഐ	MALAYALAM VOWEL SIGN II
0D41	ഐ	MALAYALAM VOWEL SIGN U
0D42	ഐ	MALAYALAM VOWEL SIGN UU
0D43	ഌ	MALAYALAM VOWEL SIGN VOCALIC R
0D44	഍	MALAYALAM VOWEL SIGN VOCALIC RR
0D45	൪	<reserved>
0D46	ഌ	MALAYALAM VOWEL SIGN E • stands to the left of the consonant
0D47	ഐ	MALAYALAM VOWEL SIGN EE • stands to the left of the consonant
0D48	ഐ	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	ഐ	MALAYALAM VOWEL SIGN OO ≡ 0D47 ഐ 0D3E ഌ
0D4C	ഐ	MALAYALAM VOWEL SIGN AU • archaic form of the /au/ dependent vowel → 0D57 ഐ malayalam au length mark ≡ 0D46 ഌ 0D57 ഐ

**Virama**

0D4D	ൠ	MALAYALAM SIGN VIRAMA = chandrakkala (the preferred name) = vowel half-u
------	---	--

**Dot-Reph**

0D4E	ൠ	MALAYALAM LETTER DOT REPH • character has historic use only
------	---	--

**Various signs**

0D57	ൠ	MALAYALAM AU LENGTH MARK • used alone to write the /au/ dependent vowel in modern texts → 0D4C ഐ malayalam vowel sign au
------	---	--

**Additional vowels for Sanskrit**

0D60	ഌ	MALAYALAM LETTER VOCALIC RR
------	---	-----------------------------

0D61 എ MALAYALAM LETTER VOCALIC LL


### Dependent vowels

0D62 ഐ MALAYALAM VOWEL SIGN VOCALIC L


0D63 ഊ MALAYALAM VOWEL SIGN VOCALIC LL

### Reserved

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

0D64  <reserved>

→ 0964 I devanagari danda

0D65  <reserved>

→ 0965 II devanagari double danda

### Digits

0D66 ഐ MALAYALAM DIGIT ZERO

0D67 ഏ MALAYALAM DIGIT ONE

0D68 ഊ MALAYALAM DIGIT TWO

0D69 ഋ MALAYALAM DIGIT THREE

0D6A ഡി MALAYALAM DIGIT FOUR

0D6B ഡി MALAYALAM DIGIT FIVE

0D6C ഡി MALAYALAM DIGIT SIX

0D6D ഡി MALAYALAM DIGIT SEVEN

0D6E ഡി MALAYALAM DIGIT EIGHT

0D6F ഡി MALAYALAM DIGIT NINE

### Malayalam numerics

0D70 ഡി MALAYALAM NUMBER TEN

0D71 ഡി MALAYALAM NUMBER ONE HUNDRED

0D72 ഡി MALAYALAM NUMBER ONE THOUSAND

### Fractions

0D73 ഡി MALAYALAM FRACTION ONE QUARTER

0D74 ഡി MALAYALAM FRACTION ONE HALF

0D75 ഡി MALAYALAM FRACTION THREE QUARTERS

### Date mark

0D79 ഡി MALAYALAM DATE MARK

### Chillu letters

0D7A ഡി MALAYALAM LETTER CHILLU NN

0D7B ഡി MALAYALAM LETTER CHILLU N

0D7C ഡി MALAYALAM LETTER CHILLU RR

- historically derived from the full letter ra

- also used for chillu r























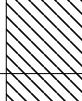



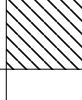
















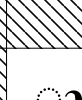
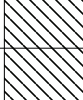




0D7D ഡി MALAYALAM LETTER CHILLU L

- historically derived from the full letter ta

- used for chillu t and chillu d


0D7E ഡി MALAYALAM LETTER CHILLU LL

0D7F ഡി MALAYALAM LETTER CHILLU K

	0D8	0D9	0DA	0DB	0DC	0DD	0DE	0DF
0		භ්‍ය 0D90	ච්‍ය 0DA0	ධ්‍ය 0DB0	ඳ්‍ය 0DC0	ඹ්‍ය 0DD0		
1		ඵ්‍ය 0D91	භ්‍ය 0DA1	ච්‍ය 0DB1	ඳ්‍ය 0DC1	ඹ්‍ය 0DD1		
2	ං 0D82	ඵ්‍ය 0D92	භ්‍ය 0DA2		භ්‍ය 0DC2	ඹ්‍ය 0DD2		ාා 0DF2
3	ං 0D83	ඵ්‍ය 0D93	භ්‍ය 0DA3	ඳ්‍ය 0DB3	ඳ්‍ය 0DC3	ඹ්‍ය 0DD3		ං 0DF3
4		ඵ්‍ය 0D94	භ්‍ය 0DA4	ඵ්‍ය 0DB4	ඵ්‍ය 0DC4	ඵ්‍ය 0DD4		
5	ඵ්‍ය 0D85	ඵ්‍ය 0D95	භ්‍ය 0DA5	ඵ්‍ය 0DB5	ඵ්‍ය 0DC5			
6	ඵ්‍ය 0D86	ඵ්‍ය 0D96	භ්‍ය 0DA6	ඵ්‍ය 0DB6	ඵ්‍ය 0DC6	ඵ්‍ය 0DD6		
7	ඵ්‍ය 0D87		ඵ්‍ය 0DA7	ඵ්‍ය 0DB7				
8	ඵ්‍ය 0D88		ඵ්‍ය 0DA8	ඵ්‍ය 0DB8		ඵ්‍ය 0DD8		
9	ඵ්‍ය 0D89		ඵ්‍ය 0DA9	ඵ්‍ය 0DB9		ඵ්‍ය 0DD9		
A	ඵ්‍ය 0D8A	ඵ්‍ය 0D9A	ඵ්‍ය 0DA A	ඵ්‍ය 0DB A	ඵ්‍ය 0DC A	ඵ්‍ය 0DD A		
B	ඵ්‍ය 0D8B	ඵ්‍ය 0D9B	ඵ්‍ය 0DA B	ඵ්‍ය 0DB B		ඵ්‍ය 0DD B		
C	ඵ්‍ය 0D8C	ඵ්‍ය 0D9C	ඵ්‍ය 0DA C			ඵ්‍ය 0DD C		
D	ඵ්‍ය 0D8D	ඵ්‍ය 0D9D	ඵ්‍ය 0DA D	ඵ්‍ය 0DB D		ඵ්‍ය 0DD D		
E	ඵ්‍ය 0D8E	ඵ්‍ය 0D9E	ඵ්‍ය 0DA E			ඵ්‍ය 0DD E		
F	ඵ්‍ය 0D8F	ඵ්‍ය 0D9F	ඵ්‍ය 0DA F		ඵ්‍ය 0DC F	ඵ්‍ය 0DD F		

**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  
NAASIKYAYA  
= 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 MUURDHADA NAYANNA  
= sinhala letter nna


0DAC  SINHALA LETTER SANYAKA DDAYANNA  
= sinhala letter ndda


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 LETTER MUURDHADA SAYANNA  
= sinhala letter ssa  
• retroflex















0DC3  SINHALA LETTER DANTAJA SAYANNA  
= sinhala letter sa  
• dental

- 0DC4  SINHALA LETTER HAYANNA  
= sinhala letter ha
- 0DC5  SINHALA LETTER MUURDHHAJA 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  
≡ 0DD9  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  
≡ 0DD9  0DCF 
- 0DDD  SINHALA VOWEL SIGN KOMBUVA HAA DIGA AELA-PILLA  
= sinhala vowel sign oo  
≡ 0DD9  0DCA 
- 0DDE  SINHALA VOWEL SIGN KOMBUVA HAA GAYANUKITTA  
= sinhala vowel sign au  
≡ 0DD9  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	๘ 0E0B	๙ 0E1B	๐ 0E2B		๑ 0E4B	๒ 0E5B		
C	๐ 0E0C	๑ 0E1C	๒ 0E2C		๓ 0E4C			
D	๒ 0E0D	๓ 0E1D	๔ 0E2D		๕ 0E4D			
E	๔ 0E0E	๕ 0E1E	๖ 0E2E		๗ 0E4E			
F	๖ 0E0F	๗ 0E1F	๘ 0E2F	๙ 0E3F	๐ 0E4F			



**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	ล	THAI CHARACTER RU
• independent vowel letter used to write Sanskrit		
0E25	า	THAI CHARACTER LO LING
0E26	โ	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		

**Vowels**

0E30	ะ	THAI CHARACTER SARA A
0E31	ั	THAI CHARACTER MAI HAN-AKAT
0E32	า	THAI CHARACTER SARA AA
→ 0E45 ๑ thai character lakkhangyao		

0E33	ำ	THAI CHARACTER SARA AM
≈ 0E4D ๐ 0E32 ๑		
0E34	อ	THAI CHARACTER SARA I
0E35	โ	THAI CHARACTER SARA II
0E36	๑	THAI CHARACTER SARA UE
0E37	๒	THAI CHARACTER SARA UEE
= sara uue		
0E38	๓	THAI CHARACTER SARA U
0E39	๔	THAI CHARACTER SARA UU
0E3A	๕	THAI CHARACTER PHINTHU
• Pali virama		

**Currency symbol**

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

*These vowels precede a consonant in visual order.*

0E40	เ	THAI CHARACTER SARA E
0E41	แ	THAI CHARACTER SARA AE
0E42	๑	THAI CHARACTER SARA O
0E43	๒	THAI CHARACTER SARA AI MAIMUAN
= sara ai mai muan		
0E44	๓	THAI CHARACTER SARA AI MAIMALAI
= sara ai mai malai		

**Vowel length sign**

0E45	๑	THAI CHARACTER LAKKHANGYAO
= lakkhang yao		
• special vowel length indication used with		
0E24 ๑ or 0E26 ๑		
→ 0E32 ๑ thai character sara aa		

**Repetition mark**

0E46	๑	THAI CHARACTER MAIYAMOK
= mai yamok		
• repetition		

**Vowel**

0E47	๑	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 CHATAWA

**Signs**

0E4C	๑	THAI CHARACTER THANTHAKHAT
• cancellation mark		
0E4D	๑	THAI CHARACTER NIKHAHIT
= nikkahit		
• final nasal		
0E4E	๑	THAI CHARACTER YAMAKKAN
0E4F	๑	THAI CHARACTER FONGMAN
• used as a bullet		
→ 17D9 ๑ 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 ๑๑ THAI CHARACTER ANGKHANKHU

- used to mark end of long sections
- used in combination with 0E30 ๐ to mark end of a verse

0E5B ๑๒ THAI CHARACTER KHOMUT

- used to mark end of chapter or document
- 17DA ๑๓ khmer sign koomuut

	0E8	0E9	0EA	0EB	0EC	0ED	0EE	0EF
0				ຂ 0EB0	໒ 0EC0	໐ 0ED0		
1	ກ 0E81		ມ 0EA1	້ 0EB1	໔໔ 0EC1	໑ 0ED1		
2	ຂ 0E82		ຢ 0EA2	າ 0EB2	ໂ 0EC2	໒ 0ED2		
3			ຣ 0EA3	້າ 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	ໆ 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 0EA		ົ 0ECA			
B		ປ 0E9B	ຫ 0EAB	ົ 0EBB	ົ 0ECB			
C		ຜ 0E9C		ົ 0EBC	ົ 0ECC	໙ 0EDC		
D	ຍ 0E8D	ຝ 0E9D	ອ 0EAD	ຽ 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	ຝ	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	ລ	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 ລ
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	ອາ	LAO VOWEL SIGN MAI KAN • vowel shortener
0EB2	າ	LAO VOWEL SIGN AA
0EB3	ອາ	LAO VOWEL SIGN AM ≈ 0ECD ອ 0EB2 ອ
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	ອາ	LAO VOWEL SIGN MAI KON = mai kong

**Signs**

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

**Vowels**

*These vowels precede a consonant in visual order.*

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

**Repetition mark**

0EC6	ງ	LAO KO LA • repetition
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**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	໙໐	LAO HO NO
		≈ 0EAB ຫ 0E99 ນ
0EDD	໙໑	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																

**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 RNAM 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 birga0F05 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  
≈ <noBreak> 0F0B \*0F0D ཨྵ TIBETAN MARK SHAD  
= shey  
• marks end of a section of text (tshig-grub)  
→ 0964 ཨྵ devanagari danda0F0E ཨྵ TIBETAN MARK NYIS SHAD  
• marks end of a whole topic (don-tshan)  
→ 0965 ཨྵ 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

0F18 ཨྵ TIBETAN ASTROLOGICAL SIGN -KHYUD PA  
• combines with digits0F19 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

• repetition

0F35 ཨྵ TIBETAN MARK NGAS BZUNG NYI ZLA

• honorific, emphasis; used like underlining

0F36 ཨྵ TIBETAN MARK CARET -DZUD RTAGS BZHI MIG CAN

• marks point of text insertion or annotation

0F37 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

**Consonants**

0F40 ཨྵ TIBETAN LETTER KA

0F41 ཨྵ TIBETAN LETTER KHA

0F42 ཨྵ TIBETAN LETTER GA

0F43 ཨྵ TIBETAN LETTER GHA

≡ 0F42 ཨྵ 0FB7 ཨྵ

0F44 ཨྵ 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	ཌྷ	TIBETAN LETTER DDHA ≡ 0F4C ཌ 0FB7 ཟ
0F4E	ཎ	TIBETAN LETTER NNA
0F4F	ཏ	TIBETAN LETTER TA
0F50	ཐ	TIBETAN LETTER THA
0F51	ཌ	TIBETAN LETTER DA
0F52	ཌྷ	TIBETAN LETTER DHA ≡ 0F51 ཌ 0FB7 ཟ
0F53	ཎ	TIBETAN LETTER NA
0F54	ཏ	TIBETAN LETTER PA
0F55	ཐ	TIBETAN LETTER PHA
0F56	ཌ	TIBETAN LETTER BA
0F57	ཌྷ	TIBETAN LETTER BHA ≡ 0F56 ཌ 0FB7 ཟ
0F58	ཎ	TIBETAN LETTER MA
0F59	ཏ	TIBETAN LETTER TSA
0F5A	ཐ	TIBETAN LETTER TSHA
0F5B	ཌ	TIBETAN LETTER DZA
0F5C	ཌྷ	TIBETAN LETTER DZHA ≡ 0F5B ཌ 0FB7 ཟ
0F5D	ཎ	TIBETAN LETTER WA
0F5E	ཏ	TIBETAN LETTER ZHA
0F5F	ཐ	TIBETAN LETTER ZA
0F60	ཌ	TIBETAN LETTER -A
0F61	ཌྷ	TIBETAN LETTER YA
0F62	ཎ	TIBETAN LETTER RA • when followed by a subjoined letter = ra mgo
0F63	ཏ	TIBETAN LETTER LA
0F64	ཐ	TIBETAN LETTER SHA
0F65	ཌ	TIBETAN LETTER SSA = reversed sha
0F66	ཎ	TIBETAN LETTER SA
0F67	ཏ	TIBETAN LETTER HA
0F68	ཐ	TIBETAN LETTER A • base for dependent vowels
0F69	ཌ	TIBETAN LETTER KSSA ≡ 0F40 ཎ 0FB5 ཟ
0F6A	ཎ	TIBETAN LETTER FIXED-FORM RA • fixed-form letter not showing the shape variation of the ordinary ra • used only in transliteration and transcription → 0F62 ཎ tibetan letter ra

**Extensions for Balti**

0F6B	ཎ	TIBETAN LETTER KKA
0F6C	ཎ	TIBETAN LETTER RRA

**Dependent vowel signs**

0F71	ཎ	TIBETAN VOWEL SIGN AA = a-chung • common, vowel-lengthening mark
0F72	ཎ	TIBETAN VOWEL SIGN I
0F73	ཎ	TIBETAN VOWEL SIGN II • use of this character is discouraged ≡ 0F71 ཎ 0F72 ཎ

0F74	ཎ	TIBETAN VOWEL SIGN U
0F75	ཎ	TIBETAN VOWEL SIGN UU • use of this character is discouraged ≡ 0F71 ཎ 0F74 ཎ
0F76	ཎ	TIBETAN VOWEL SIGN VOCALIC R ≡ 0FB2 ཎ 0F80 ཎ
0F77	ཎ	TIBETAN VOWEL SIGN VOCALIC RR • this character is deprecated and its use is strongly discouraged ≈ 0FB2 ཎ 0F81 ཎ
0F78	ཎ	TIBETAN VOWEL SIGN VOCALIC L ≡ 0FB3 ཎ 0F80 ཎ
0F79	ཎ	TIBETAN VOWEL SIGN VOCALIC LL • this character is deprecated and its use is strongly discouraged ≈ 0FB3 ཎ 0F81 ཎ
0F7A	ཎ	TIBETAN VOWEL SIGN E
0F7B	ཎ	TIBETAN VOWEL SIGN EE
0F7C	ཎ	TIBETAN VOWEL SIGN O
0F7D	ཎ	TIBETAN VOWEL SIGN OO

**Vocalic modification**

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

**Dependent vowel signs**

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

**Marks and signs**

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

**Transliteration head letters**

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

**Transliteration subjoined signs**

0F8D	ཎ	TIBETAN SUBJOINED SIGN LCE TSA CAN
0F8E	ཎ	TIBETAN SUBJOINED SIGN MCHU CAN
0F8F	ཎ	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		TIBETAN SUBJOINED LETTER KA
0F91		TIBETAN SUBJOINED LETTER KHA
0F92		TIBETAN SUBJOINED LETTER GA
0F93		TIBETAN SUBJOINED LETTER GHA ≡ 0F92  0FB7
0F94		TIBETAN SUBJOINED LETTER NGA
0F95		TIBETAN SUBJOINED LETTER CA
0F96		TIBETAN SUBJOINED LETTER CHA
0F97		TIBETAN SUBJOINED LETTER JA
0F98		<reserved>
0F99		TIBETAN SUBJOINED LETTER NYA
0F9A		TIBETAN SUBJOINED LETTER TTA
0F9B		TIBETAN SUBJOINED LETTER TTHA
0F9C		TIBETAN SUBJOINED LETTER DDA
0F9D		TIBETAN SUBJOINED LETTER DDHA ≡ 0F9C  0FB7
0F9E		TIBETAN SUBJOINED LETTER NNA
0F9F		TIBETAN SUBJOINED LETTER TA
0FA0		TIBETAN SUBJOINED LETTER THA
0FA1		TIBETAN SUBJOINED LETTER DA
0FA2		TIBETAN SUBJOINED LETTER DHA ≡ 0FA1  0FB7
0FA3		TIBETAN SUBJOINED LETTER NA
0FA4		TIBETAN SUBJOINED LETTER PA
0FA5		TIBETAN SUBJOINED LETTER PHA
0FA6		TIBETAN SUBJOINED LETTER BA
0FA7		TIBETAN SUBJOINED LETTER BHA ≡ 0FA6  0FB7
0FA8		TIBETAN SUBJOINED LETTER MA
0FA9		TIBETAN SUBJOINED LETTER TSA
0FAA		TIBETAN SUBJOINED LETTER TSHA
0FAB		TIBETAN SUBJOINED LETTER DZA
0FAC		TIBETAN SUBJOINED LETTER DZHA ≡ 0FAB  0FB7
0FAD		TIBETAN SUBJOINED LETTER WA = wa-zur, wa-btags (wa ta)
0FAE		TIBETAN SUBJOINED LETTER ZHA
0FAF		TIBETAN SUBJOINED LETTER ZA
0FB0		TIBETAN SUBJOINED LETTER -A = a-chung • rare, only used for full-sized subjoined letter → 0F71
0FB1		TIBETAN SUBJOINED LETTER YA = ya-btags (ya ta)
0FB2		TIBETAN SUBJOINED LETTER RA = ra-btags (ra ta)
0FB3		TIBETAN SUBJOINED LETTER LA
0FB4		TIBETAN SUBJOINED LETTER SHA
0FB5		TIBETAN SUBJOINED LETTER SSA = reversed subjoined sha
0FB6		TIBETAN SUBJOINED LETTER SA
0FB7		TIBETAN SUBJOINED LETTER HA
0FB8		TIBETAN SUBJOINED LETTER A
0FB9		TIBETAN SUBJOINED LETTER KSSA ≡ 0F90  0FB5

**Fixed-form subjoined consonants**

These characters are used only for transliteration and transcription.

0FBA		TIBETAN SUBJOINED LETTER FIXED-FORM WA
0FBB		TIBETAN SUBJOINED LETTER FIXED-FORM YA
0FBC		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	ᱠ	TIBETAN SYMBOL DRIL BU • symbol of a Tibetan hand bell
0FC5	ᱡ	TIBETAN SYMBOL RDO RJE
0FC6	ᱢ	TIBETAN SYMBOL PADMA GDAN
0FC7	ᱣ	TIBETAN SYMBOL RDO RJE RGYA GRAM
0FC8	ᱤ	TIBETAN SYMBOL PHUR PA
0FC9	ᱥ	TIBETAN SYMBOL NOR BU
0FCA	ᱦ	TIBETAN SYMBOL NOR BU NYIS -KHYIL • the double body symbol → 262F ᱦ yin yang
0FCB	ᱧ	TIBETAN SYMBOL NOR BU GSUM -KHYIL • the tri-kaya or triple body symbol
0FCC	ᱨ	TIBETAN SYMBOL NOR BU BZHI -KHYIL • the quadruple body symbol, a form of the svasti sign → 0FD6 ᱨ 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	ᱠ	TIBETAN MARK BSKA- SHOG GI MGO RGYAN × TIBETAN MARK BKA- SHOG GI MGO RGYAN • used in Bhutan
0FD1	ᱡ	TIBETAN MARK MNYAM YIG GI MGO RGYAN • used in Bhutan
0FD2	:	TIBETAN MARK NYIS TSHEG = nyi tsek

**Head marks**

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

**Religious symbols**

- 0FD5 ཨྫ RIGHT-FACING SVASTI SIGN  
= gyung drung nang -khor  
• symbol of good luck and well-being in India  
→ 5350 ཨྫ
- 0FD6 ཨྭ LEFT-FACING SVASTI SIGN  
= gyung drung phyi -khor  
→ 534D ཨྭ
- 0FD7 ཨྫ. RIGHT-FACING SVASTI SIGN WITH DOTS  
= gyung drung nang -khor bzhi mig can
- 0FD8 ཨྭ. 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	စ 1050	း 1060	ယု 1070	ဆ 1080	ဝ 1090
1	ခ 1001	ထ 1011	အ 1021	ေ 1031	၁ 1041	ဗ 1051	၍ 1061	ိ 1071	၎ 1081	၁ 1091
2	ဂ 1002	ဒ 1012	က 1022	ဲ 1032	၂ 1042	ဖ 1052	ာ 1062	ိ 1072	့ 1082	၇ 1092
3	ဃ 1003	မ 1013	ဒိ 1023	ီ 1033	၃ 1043	ဗ 1053	ာ 1063	ိ 1073	့ 1083	၇ 1093
4	င 1004	န 1014	ြ 1024	် 1034	၄ 1044	ဇ 1054	ာ 1064	ိ 1074	့ 1084	၇ 1094
5	စ 1005	ပ 1015	ဥ 1025	ိ 1035	၅ 1045	ဇ 1055	၁ 1065	ဂ 1075	ိ 1085	၃ 1095
6	ဆ 1006	ဖ 1016	ဥ 1026	ိ 1036	၆ 1046	ာ 1056	၎ 1066	ခ 1076	ိ 1086	၄ 1096
7	ဇ 1007	ပ 1017	ဇ 1027	့ 1037	၇ 1047	ာ 1057	ာ 1067	ဂ 1077	့ 1087	၇ 1097
8	ဈ 1008	ဘ 1018	ဇ 1028	့ 1038	၈ 1048	ာ 1058	ာ 1068	က 1078	့ 1088	၇ 1098
9	ဉ 1009	မ 1019	ြ 1029	့ 1039	၉ 1049	ာ 1059	ာ 1069	ဆ 1079	့ 1089	၇ 1099
A	ည 100A	ယ 101A	ြ 102A	် 103A	ါ 104A	၄ 105A	ာ 106A	၎ 107A	့ 108A	ံ 109A
B	ဋ 100B	ရ 101B	ါ 102B	ျ 103B	။ 104B	ဗ 105B	ာ 106B	တ 107B	့ 108B	့ 109B
C	ဌ 100C	လ 101C	ိ 102C	ြ 103C	ြ 104C	စ 105C	ာ 106C	ဆ 107C	့ 108C	့ 109C
D	ဍ 100D	ဝ 101D	ိ 102D	့ 103D	ြ 104D	ဗ 105D	ာ 106D	ဇ 107D	့ 108D	ိ 109D
E	ပ 100E	သ 101E	ီ 102E	့ 103E	၄ 104E	ာ 105E	က 106E	ဗ 107E	စ 108E	ိ 109E
F	က 100F	ဟ 101F	့ 102F	သ 103F	၏ 104F	့ 105F	ဟ 106F	စ 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	ည	MYANMAR LETTER JHA
1009	ဓ	MYANMAR LETTER NYA
100A	တ	MYANMAR LETTER NNYA
100B	ထ	MYANMAR LETTER TTA
100C	ဒ	MYANMAR LETTER TTHA
100D	ဏ	MYANMAR LETTER DDA
100E	ဉ	MYANMAR LETTER DDHA
100F	ပ	MYANMAR LETTER NNA
1010	ဖ	MYANMAR LETTER TA
1011	ဗ	MYANMAR LETTER THA
1012	ဒ	MYANMAR LETTER DA
1013	ဓ	MYANMAR LETTER DHA
1014	န	MYANMAR LETTER NA
1015	တ	MYANMAR LETTER PA
1016	ဇ	MYANMAR LETTER PHA
1017	ဗ	MYANMAR LETTER BA
1018	ဘ	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	ဦ	MYANMAR LETTER MON E
1029	ဣ	MYANMAR LETTER O
102A	ဣ	MYANMAR LETTER AU

**Dependent vowel signs**

102B	၀	MYANMAR VOWEL SIGN TALL AA
102C	၁	MYANMAR VOWEL SIGN AA
102D	၂	MYANMAR VOWEL SIGN I
102E	၃	MYANMAR VOWEL SIGN II
102F	၄	MYANMAR VOWEL SIGN U
1030	၅	MYANMAR VOWEL SIGN UU
1031	၆	MYANMAR VOWEL SIGN E • stands to the left of the consonant
1032	၇	MYANMAR VOWEL SIGN AI
1033	၈	MYANMAR VOWEL SIGN MON II
1034	၉	MYANMAR VOWEL SIGN MON O
1035	၁၀	MYANMAR VOWEL SIGN E ABOVE

**Various signs**

1036	၁၁	MYANMAR SIGN ANUSVARA
1037	၁၂	MYANMAR SIGN DOT BELOW = aukmyit • a tone mark
1038	၁၃	MYANMAR SIGN VISARGA
1039	၁၄	MYANMAR SIGN VIRAMA = killer (when rendered visibly)
103A	၁၅	MYANMAR SIGN ASAT = killer (always rendered visibly)

**Dependent consonant signs**

103B	၁၆	MYANMAR CONSONANT SIGN MEDIAL YA
103C	၁၇	MYANMAR CONSONANT SIGN MEDIAL RA
103D	၁၈	MYANMAR CONSONANT SIGN MEDIAL WA
103E	၁၉	MYANMAR CONSONANT SIGN MEDIAL HA

**Consonant**

103F	၁၁၀	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	၁၁၁	MYANMAR SYMBOL LOCATIVE
104D	၁၁၂	MYANMAR SYMBOL COMPLETED
104E	၁၁၃	MYANMAR SYMBOL AFOREMENTIONED
104F	၁၁၄	MYANMAR SYMBOL GENITIVE

**Pali and Sanskrit extensions**

1050	၁၁၅	MYANMAR LETTER SHA
1051	၁၁၆	MYANMAR LETTER SSA
1052	၁၁၇	MYANMAR LETTER VOCALIC R
1053	၁၁၈	MYANMAR LETTER VOCALIC RR
1054	၁၁၉	MYANMAR LETTER VOCALIC L
1055	၁၁၁၀	MYANMAR LETTER VOCALIC LL
1056	၁၁၁၁	MYANMAR VOWEL SIGN VOCALIC R
1057	၁၁၁၂	MYANMAR VOWEL SIGN VOCALIC RR
1058	၁၁၁၃	MYANMAR VOWEL SIGN VOCALIC L
1059	၁၁၁၄	MYANMAR VOWEL SIGN VOCALIC LL

**Extensions for Mon**

105A	၁၁၁၅	MYANMAR LETTER MON NGA
105B	၁၁၁၆	MYANMAR LETTER MON JHA
105C	၁၁၁၇	MYANMAR LETTER MON BBA
105D	၁၁၁၈	MYANMAR LETTER MON BBE
105E	၁၁၁၉	MYANMAR CONSONANT SIGN MON MEDIAL NA
105F	၁၁၁၁၀	MYANMAR CONSONANT SIGN MON MEDIAL MA

1060 ၁ MYANMAR CONSONANT SIGN MON MEDIAL LA

#### Extensions for S'gaw Karen

1061 ၁ MYANMAR LETTER SGAW KAREN SHA  
 1062 ၁ MYANMAR VOWEL SIGN SGAW KAREN EU  
 1063 ၁ MYANMAR TONE MARK SGAW KAREN HATHI  
 1064 ၁ MYANMAR TONE MARK SGAW KAREN KE PHO

#### Extensions for Western Pwo Karen

1065 ၁ MYANMAR LETTER WESTERN PWO KAREN THA  
 1066 ၁ MYANMAR LETTER WESTERN PWO KAREN PWA  
 1067 ၁ MYANMAR VOWEL SIGN WESTERN PWO KAREN EU  
 1068 ၁ MYANMAR VOWEL SIGN WESTERN PWO KAREN UE  
 1069 ၁ MYANMAR SIGN WESTERN PWO KAREN TONE-1  
 106A ၁ MYANMAR SIGN WESTERN PWO KAREN TONE-2  
 106B ၁ MYANMAR SIGN WESTERN PWO KAREN TONE-3  
 106C ၁ MYANMAR SIGN WESTERN PWO KAREN TONE-4  
 106D ၁ MYANMAR SIGN WESTERN PWO KAREN TONE-5

#### Extensions for Eastern Pwo Karen

106E ၁ MYANMAR LETTER EASTERN PWO KAREN NNA  
 106F ၁ MYANMAR LETTER EASTERN PWO KAREN YWA  
 1070 ၁ MYANMAR LETTER EASTERN PWO KAREN GHWA

#### Extension for Geba Karen

1071 ၁ MYANMAR VOWEL SIGN GEBA KAREN I

#### Extensions for Kayah

1072 ၁ MYANMAR VOWEL SIGN KAYAH OE  
 1073 ၁ MYANMAR VOWEL SIGN KAYAH U  
 1074 ၁ MYANMAR VOWEL SIGN KAYAH EE

#### Extensions for Shan

1075 ၁ MYANMAR LETTER SHAN KA  
 1076 ၁ MYANMAR LETTER SHAN KHA  
 1077 ၁ MYANMAR LETTER SHAN GA  
 1078 ၁ MYANMAR LETTER SHAN CA  
 1079 ၁ MYANMAR LETTER SHAN ZA  
 107A ၁ MYANMAR LETTER SHAN NYA  
 107B ၁ MYANMAR LETTER SHAN DA  
 107C ၁ MYANMAR LETTER SHAN NA  
 107D ၁ MYANMAR LETTER SHAN PHA  
 107E ၁ MYANMAR LETTER SHAN FA  
 107F ၁ MYANMAR LETTER SHAN BA  
 1080 ၁ MYANMAR LETTER SHAN THA  
 1081 ၁ MYANMAR LETTER SHAN HA  
 1082 ၁ MYANMAR CONSONANT SIGN SHAN MEDIAL WA  
 1083 ၁ MYANMAR VOWEL SIGN SHAN AA  
 1084 ၁ MYANMAR VOWEL SIGN SHAN E  
 1085 ၁ MYANMAR VOWEL SIGN SHAN E ABOVE  
 1086 ၁ MYANMAR VOWEL SIGN SHAN FINAL Y  
 1087 ၁ MYANMAR SIGN SHAN TONE-2  
 1088 ၁ MYANMAR SIGN SHAN TONE-3  
 1089 ၁ MYANMAR SIGN SHAN TONE-5  
 108A ၁ MYANMAR SIGN SHAN TONE-6  
 108B ၁ MYANMAR SIGN SHAN COUNCIL TONE-2

108C ၁ MYANMAR SIGN SHAN COUNCIL TONE-3

108D ၁ MYANMAR SIGN SHAN COUNCIL EMPHATIC TONE

#### Extensions for Rumai Palaung

108E ၁ MYANMAR LETTER RUMAI PALAUNG FA  
 108F ၁ MYANMAR SIGN RUMAI PALAUNG TONE-5

#### Shan digits

1090 ၀ MYANMAR SHAN DIGIT ZERO  
 1091 ၁ MYANMAR SHAN DIGIT ONE  
 1092 ၂ MYANMAR SHAN DIGIT TWO  
 1093 ၃ MYANMAR SHAN DIGIT THREE  
 1094 ၄ MYANMAR SHAN DIGIT FOUR  
 1095 ၅ MYANMAR SHAN DIGIT FIVE  
 1096 ၆ MYANMAR SHAN DIGIT SIX  
 1097 ၇ MYANMAR SHAN DIGIT SEVEN  
 1098 ၈ MYANMAR SHAN DIGIT EIGHT  
 1099 ၉ MYANMAR SHAN DIGIT NINE

#### Extensions for Khamti Shan

109A ၁ MYANMAR SIGN KHAMTI TONE-1  
 109B ၁ MYANMAR SIGN KHAMTI TONE-3

#### Extensions for Aiton and Phake

109C ၁ MYANMAR VOWEL SIGN AITON A  
 109D ၁ MYANMAR VOWEL SIGN AITON AI

#### Shan symbols

109E ၁ MYANMAR SYMBOL SHAN ONE  
 109F ၁ 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	Ⴀ 10D3	Ⴁ 10E3	Ⴂ 10F3
4	Ⴃ 10A4	Ⴄ 10B4	Ⴅ 10C4	Ⴆ 10D4	Ⴇ 10E4	Ⴈ 10F4
5	Ⴊ 10A5	Ⴋ 10B5	Ⴌ 10C5	Ⴍ 10D5	Ⴎ 10E5	Ⴏ 10F5
6	Ⴐ 10A6	Ⴑ 10B6		Ⴓ 10D6	Ⴔ 10E6	Ⴕ 10F6
7	Ⴗ 10A7	Ⴘ 10B7		Ⴚ 10D7	Ⴛ 10E7	Ⴜ 10F7
8	Ⴝ 10A8	Ⴞ 10B8		Ⴀ 10D8	Ⴁ 10E8	Ⴂ 10F8
9	Ⴃ 10A9	Ⴄ 10B9		Ⴆ 10D9	Ⴇ 10E9	Ⴈ 10F9
A	Ⴊ 10AA	Ⴋ 10BA		Ⴍ 10DA	Ⴎ 10EA	Ⴏ 10FA
B	Ⴐ 10AB	Ⴑ 10BB		Ⴓ 10DB	Ⴔ 10EB	Ⴕ 10FB
C	Ⴗ 10AC	Ⴘ 10BC		Ⴚ 10DC	Ⴛ 10EC	Ⴜ 10FC
D	Ⴝ 10AD	Ⴞ 10BD		Ⴀ 10DD	Ⴁ 10ED	
E	Ⴃ 10AE	Ⴄ 10BE		Ⴆ 10DE	Ⴇ 10EE	
F	Ⴊ 10AF	Ⴋ 10BF		Ⴍ 10DF	Ⴎ 10EF	

**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	Ⴀ	GEORGIAN CAPITAL LETTER HAE
10C1	Ⴁ	GEORGIAN CAPITAL LETTER HE
10C2	Ⴂ	GEORGIAN CAPITAL LETTER HIE
10C3	Ⴃ	GEORGIAN CAPITAL LETTER WE
10C4	Ⴄ	GEORGIAN CAPITAL LETTER HAR
10C5	Ⴅ	GEORGIAN CAPITAL LETTER HOE

**Mkhedruli**

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

10D0	Ⴆ	GEORGIAN LETTER AN
10D1	Ⴇ	GEORGIAN LETTER BAN
10D2	Ⴈ	GEORGIAN LETTER GAN
10D3	Ⴉ	GEORGIAN LETTER DON
10D4	Ⴊ	GEORGIAN LETTER EN
10D5	Ⴋ	GEORGIAN LETTER VIN
10D6	Ⴌ	GEORGIAN LETTER ZEN
10D7	Ⴍ	GEORGIAN LETTER TAN
10D8	Ⴎ	GEORGIAN LETTER IN
10D9	Ⴏ	GEORGIAN LETTER KAN
10DA	Ⴐ	GEORGIAN LETTER LAS
10DB	Ⴑ	GEORGIAN LETTER MAN
10DC	Ⴒ	GEORGIAN LETTER NAR
10DD	Ⴓ	GEORGIAN LETTER ON
10DE	Ⴔ	GEORGIAN LETTER PAR
10DF	Ⴕ	GEORGIAN LETTER ZHAR

10E0	Ⴖ	GEORGIAN LETTER RAE
10E1	Ⴗ	GEORGIAN LETTER SAN
10E2	Ⴘ	GEORGIAN LETTER TAR
10E3	Ⴙ	GEORGIAN LETTER UN
10E4	Ⴚ	GEORGIAN LETTER PHAR
10E5	Ⴛ	GEORGIAN LETTER KHAR
10E6	Ⴜ	GEORGIAN LETTER GHAN
10E7	Ⴝ	GEORGIAN LETTER QAR
10E8	Ⴞ	GEORGIAN LETTER SHIN
10E9	Ⴟ	GEORGIAN LETTER CHIN
10EA	Ⴀ	GEORGIAN LETTER CAN
10EB	Ⴁ	GEORGIAN LETTER JIL
10EC	Ⴂ	GEORGIAN LETTER CIL
10ED	Ⴃ	GEORGIAN LETTER CHAR
10EE	Ⴄ	GEORGIAN LETTER XAN
10EF	Ⴅ	GEORGIAN LETTER JHAN
10F0	Ⴆ	GEORGIAN LETTER HAE

**Archaic letters**

10F1	Ⴇ	GEORGIAN LETTER HE
10F2	Ⴈ	GEORGIAN LETTER HIE
10F3	Ⴉ	GEORGIAN LETTER WE
10F4	Ⴊ	GEORGIAN LETTER HAR
10F5	Ⴋ	GEORGIAN LETTER HOE
10F6	Ⴌ	GEORGIAN LETTER FI

**Additional letters for Mingrelian and Svan**

10F7	Ⴍ	GEORGIAN LETTER YN
10F8	Ⴎ	GEORGIAN LETTER ELIFI

**Additional letters**

10F9	Ⴏ	GEORGIAN LETTER TURNED GAN
10FA	Ⴐ	GEORGIAN LETTER AIN

**Punctuation**

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

10FC	Ⴒ	MODIFIER LETTER GEORGIAN NAR ≈ <super> 10DC 6
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	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	ㅌ 11B0	ㅍ 11C0	ㅍ 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	ㅌ 11B1	ㅍ 11C1	ㅍ 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	ㅌ 11B2	ㅍ 11C2	ㅍ 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	ㅌ 11B3	ㅍ 11C3	ㅍ 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	ㅌ 11B4	ㅍ 11C4	ㅍ 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	ㅌ 11B5	ㅍ 11C5	ㅍ 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	ㅌ 11B6	ㅍ 11C6	ㅍ 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	ㅌ 11B7	ㅍ 11C7	ㅍ 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	ㅌ 11B8	ㅍ 11C8	ㅍ 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	ㅌ 11B9	ㅍ 11C9	ㅍ 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	ㅌ 11BA	ㅍ 11CA	ㅍ 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	ㅌ 11BB	ㅍ 11CB	ㅍ 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	ㅌ 11BC	ㅍ 11CC	ㅍ 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	ㅌ 11BD	ㅍ 11CD	ㅍ 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	ㅌ 11BE	ㅍ 11CE	ㅍ 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	ㅌ 11BF	ㅍ 11CF	ㅍ 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 TIKEUT = D
1104	ㄸ	HANGUL CHOSEONG SSANGTIKEUT = 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	ㄴ	HANGUL CHOSEONG NIEUN-KIYEOK
1114	ㄴ	HANGUL CHOSEONG SSANGNIEUN
1115	ㄴ	HANGUL CHOSEONG NIEUN-TIKEUT
1116	ㄴ	HANGUL CHOSEONG NIEUN-PIEUP
1117	ㄴ	HANGUL CHOSEONG TIKEUT-KIYEOK
1118	ㄴ	HANGUL CHOSEONG RIEUL-NIEUN
1119	ㄴ	HANGUL CHOSEONG SSANGRIEUL
111A	ㄴ	HANGUL CHOSEONG RIEUL-HIEUH
111B	ㄴ	HANGUL CHOSEONG KAPYEOUNRIEUL
111C	ㄴ	HANGUL CHOSEONG MIEUM-PIEUP
111D	ㄴ	HANGUL CHOSEONG KAPYEOUNMIEUM
111E	ㄴ	HANGUL CHOSEONG PIEUP-KIYEOK
111F	ㄴ	HANGUL CHOSEONG PIEUP-NIEUN
1120	ㄴ	HANGUL CHOSEONG PIEUP-TIKEUT
1121	ㄴ	HANGUL CHOSEONG PIEUP-SIOS
1122	ㄴ	HANGUL CHOSEONG PIEUP-SIOS-KIYEOK
1123	ㄴ	HANGUL CHOSEONG PIEUP-SIOS-TIKEUT
1124	ㄴ	HANGUL CHOSEONG PIEUP-SIOS-PIEUP
1125	ㄴ	HANGUL CHOSEONG PIEUP-SSANGSIOS
1126	ㄴ	HANGUL CHOSEONG PIEUP-SIOS-CIEUC
1127	ㄴ	HANGUL CHOSEONG PIEUP-CIEUC
1128	ㄴ	HANGUL CHOSEONG PIEUP-CHIEUCH
1129	ㄴ	HANGUL CHOSEONG PIEUP-THIEUTH

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

### Medial vowels

1160	ㅏ	HANGUL JUNGSEONG FILLER
1161	ㅑ	HANGUL JUNGSEONG A = A

1162 ㅏ HANGUL JUNGSEONG AE  
 = AE  
 1163 ㅑ HANGUL JUNGSEONG YA  
 = YA  
 1164 ㅓ HANGUL JUNGSEONG YAE  
 = YAE  
 1165 ㅕ HANGUL JUNGSEONG EO  
 = EO  
 1166 ㅗ HANGUL JUNGSEONG E  
 = E  
 1167 ㅛ HANGUL JUNGSEONG YEO  
 = YEO  
 1168 ㅜ HANGUL JUNGSEONG YE  
 = YE  
 1169 ㅟ HANGUL JUNGSEONG O  
 = O  
 116A ㅠ HANGUL JUNGSEONG WA  
 = WA  
 116B ㅢ HANGUL JUNGSEONG WAE  
 = WAE  
 116C ㅣ HANGUL JUNGSEONG OE  
 = OE  
 116D ㅥ HANGUL JUNGSEONG YO  
 = YO  
 116E ㅨ HANGUL JUNGSEONG U  
 = U  
 116F ㅪ HANGUL JUNGSEONG WEO  
 = WEO  
 1170 ㅬ HANGUL JUNGSEONG WE  
 = WE  
 1171 ㅭ HANGUL JUNGSEONG WI  
 = WI  
 1172 ㅮ HANGUL JUNGSEONG YU  
 = YU  
 1173 ㅯ HANGUL JUNGSEONG EU  
 = EU  
 1174 ㅱ HANGUL JUNGSEONG YI  
 = YI  
 1175 ㅳ HANGUL JUNGSEONG I  
 = I  
 1176 ㅵ HANGUL JUNGSEONG A-O  
 1177 ㅶ HANGUL JUNGSEONG A-U  
 1178 ㅷ HANGUL JUNGSEONG YA-O  
 1179 ㅸ HANGUL JUNGSEONG YA-YO  
 117A ㅹ HANGUL JUNGSEONG EO-O  
 117B ㅺ HANGUL JUNGSEONG EO-U  
 117C ㅻ HANGUL JUNGSEONG EO-EU  
 117D ㅼ HANGUL JUNGSEONG YEO-O  
 117E ㅽ HANGUL JUNGSEONG YEO-U  
 117F ㅿ HANGUL JUNGSEONG O-EO  
 1180 ㅿ HANGUL JUNGSEONG O-E  
 1181 ㅿ HANGUL JUNGSEONG O-YE  
 1182 ㅿ HANGUL JUNGSEONG O-O  
 1183 ㅿ HANGUL JUNGSEONG O-U  
 1184 ㅿ HANGUL JUNGSEONG YO-YA  
 1185 ㅿ HANGUL JUNGSEONG YO-YAE  
 1186 ㅿ HANGUL JUNGSEONG YO-YEO  
 1187 ㅿ HANGUL JUNGSEONG YO-O  
 1188 ㅿ HANGUL JUNGSEONG YO-I  
 1189 ㅿ HANGUL JUNGSEONG U-A  
 118A ㅿ HANGUL JUNGSEONG U-AE  
 118B ㅿ HANGUL JUNGSEONG U-EO-EU  
 118C ㅿ HANGUL JUNGSEONG U-YE

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

**Final consonants**

11A8 ㅿ HANGUL JONGSEONG KIYEOK  
 = G  
 11A9 ㅿ HANGUL JONGSEONG SSANGKIYEOK  
 = GG  
 11AA ㅿ HANGUL JONGSEONG KIYEOK-SIOS  
 = GS  
 11AB ㅿ HANGUL JONGSEONG NIEUN  
 = N  
 11AC ㅿ HANGUL JONGSEONG NIEUN-CIEUC  
 = NJ  
 11AD ㅿ HANGUL JONGSEONG NIEUN-HIEUH  
 = NH  
 11AE ㅿ HANGUL JONGSEONG TIKUT  
 = D  
 11AF ㅿ HANGUL JONGSEONG RIEUL  
 = L  
 11B0 ㅿ HANGUL JONGSEONG RIEUL-KIYEOK  
 = LG  
 11B1 ㅿ HANGUL JONGSEONG RIEUL-MIEUM  
 = LM  
 11B2 ㅿ HANGUL JONGSEONG RIEUL-PIEUP  
 = LB  
 11B3 ㅿ HANGUL JONGSEONG RIEUL-SIOS  
 = LS  
 11B4 ㅿ HANGUL JONGSEONG RIEUL-THIEUTH  
 = LT  
 11B5 ㅿ HANGUL JONGSEONG RIEUL-PHIEUPH  
 = LP  
 11B6 ㅿ HANGUL JONGSEONG RIEUL-HIEUH  
 = LH  
 11B7 ㅿ HANGUL JONGSEONG MIEUM  
 = M  
 11B8 ㅿ HANGUL JONGSEONG PIEUP  
 = B

11B9

Hangul Jamo

11FF

11B9 반 HANGUL JONGSEONG PIEUP-SIOS  
 = BS  
 11BA 사 HANGUL JONGSEONG SIOS  
 = S  
 11BB 쏜 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 ㄱ HANGUL JONGSEONG KIYEOK-RIEUL  
 11C4 ㄴ HANGUL JONGSEONG KIYEOK-SIOS-KIYEOK  
 11C5 ㄷ HANGUL JONGSEONG NIEUN-KIYEOK  
 11C6 ㄹ HANGUL JONGSEONG NIEUN-TIKEUT  
 11C7 ㄴ HANGUL JONGSEONG NIEUN-SIOS  
 11C8 ㄷ HANGUL JONGSEONG NIEUN-PANSIOS  
 11C9 ㄹ HANGUL JONGSEONG NIEUN-THIEUTH  
 11CA ㄷ HANGUL JONGSEONG TIKEUT-KIYEOK  
 11CB ㄹ HANGUL JONGSEONG TIKEUT-RIEUL  
 11CC ㄷ HANGUL JONGSEONG RIEUL-KIYEOK-SIOS  
 11CD ㄹ HANGUL JONGSEONG RIEUL-NIEUN  
 11CE ㄷ HANGUL JONGSEONG RIEUL-TIKEUT  
 11CF ㄹ HANGUL JONGSEONG RIEUL-TIKEUT-HIEUH  
 11D0 ㄷ HANGUL JONGSEONG SSANGRIEUL  
 11D1 ㄹ HANGUL JONGSEONG RIEUL-MIEUM-KIYEOK  
 11D2 ㄷ HANGUL JONGSEONG RIEUL-MIEUM-SIOS  
 11D3 ㄹ HANGUL JONGSEONG RIEUL-PIEUP-SIOS  
 11D4 ㄷ HANGUL JONGSEONG RIEUL-PIEUP-HIEUH  
 11D5 ㄹ HANGUL JONGSEONG RIEUL-KAPYEOUNPIEUP  
 11D6 ㄷ HANGUL JONGSEONG RIEUL-SSANGSIOS  
 11D7 ㄹ HANGUL JONGSEONG RIEUL-PANSIOS  
 11D8 ㄷ HANGUL JONGSEONG RIEUL-KHIEUKH  
 11D9 ㄹ HANGUL JONGSEONG RIEUL-YEORINHIEUH  
 11DA ㄷ HANGUL JONGSEONG MIEUM-KIYEOK  
 11DB ㄹ HANGUL JONGSEONG MIEUM-RIEUL  
 11DC ㄷ HANGUL JONGSEONG MIEUM-PIEUP  
 11DD ㄹ HANGUL JONGSEONG MIEUM-SIOS  
 11DE ㄷ HANGUL JONGSEONG MIEUM-SSANGSIOS  
 11DF ㄹ HANGUL JONGSEONG MIEUM-PANSIOS  
 11E0 ㅊ HANGUL JONGSEONG MIEUM-CHIEUCH  
 11E1 ㅊ HANGUL JONGSEONG MIEUM-HIEUH  
 11E2 ㅊ HANGUL JONGSEONG KAPYEOUNMIEUM  
 11E3 ㅊ HANGUL JONGSEONG PIEUP-RIEUL  
 11E4 ㅊ HANGUL JONGSEONG PIEUP-PHIEUPH  
 11E5 ㅊ HANGUL JONGSEONG PIEUP-HIEUH  
 11E6 ㅊ HANGUL JONGSEONG KAPYEOUNPIEUP  
 11E7 ㅊ HANGUL JONGSEONG SIOS-KIYEOK  
 11E8 ㅊ HANGUL JONGSEONG SIOS-TIKEUT  
 11E9 ㅊ HANGUL JONGSEONG SIOS-RIEUL  
 11EA ㅊ HANGUL JONGSEONG SIOS-PIEUP  
 11EB ㅊ HANGUL JONGSEONG PANSIOS





11EC ㅊ HANGUL JONGSEONG IEUNG-KIYEOK  
 = yesieung-kiyeok  
 11ED ㅊ HANGUL JONGSEONG IEUNG-SSANGKIYEOK  
 = yesieung-ssangkiyeok  
 11EE ㅊ HANGUL JONGSEONG SSANGIEUNG  
 = ssangyesieung  
 11EF ㅊ HANGUL JONGSEONG IEUNG-KHIEUKH  
 = yesieung-khieukh  
 11F0 ㅊ HANGUL JONGSEONG YESIEUNG  
 11F1 ㅊ HANGUL JONGSEONG YESIEUNG-SIOS  
 11F2 ㅊ HANGUL JONGSEONG YESIEUNG-PANSIOS  
 11F3 ㅊ HANGUL JONGSEONG PHIEUPH-PIEUP  
 11F4 ㅊ HANGUL JONGSEONG KAPYEOUNPHIEUPH  
 11F5 ㅊ HANGUL JONGSEONG HIEUH-NIEUN  
 11F6 ㅊ HANGUL JONGSEONG HIEUH-RIEUL  
 11F7 ㅊ HANGUL JONGSEONG HIEUH-MIEUM  
 11F8 ㅊ HANGUL JONGSEONG HIEUH-PIEUP  
 11F9 ㅊ HANGUL JONGSEONG YEORINHIEUH  
 11FA ㅊ HANGUL JONGSEONG KIYEOK-NIEUN  
 11FB ㅊ HANGUL JONGSEONG KIYEOK-PIEUP  
 11FC ㅊ HANGUL JONGSEONG KIYEOK-CHIEUCH  
 11FD ㅊ HANGUL JONGSEONG KIYEOK-KHIEUKH  
 11FE ㅊ HANGUL JONGSEONG KIYEOK-HIEUH  
 11FF ㅊ 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	ኰ 12B0
1	ሁ 1201	ሐ 1211	ሠ 1221	ሰ 1231	ቀ 1241	ቐ 1251	ቡ 1261	ቱ 1271	ኀ 1281	ኑ 1291	ኦ 12A1	
2	ሂ 1202	ሐ 1212	ሠ 1222	ሰ 1232	ቀ 1242	ቐ 1252	ቢ 1262	ቲ 1272	ኀ 1282	ኒ 1292	ኦ 12A2	ኰ 12B2
3	ሃ 1203	ሐ 1213	ሠ 1223	ሰ 1233	ቀ 1243	ቐ 1253	ባ 1263	ታ 1273	ኀ 1283	ና 1293	ኦ 12A3	ኰ 12B3
4	ሄ 1204	ሐ 1214	ሠ 1224	ሰ 1234	ቀ 1244	ቐ 1254	ቤ 1264	ቲ 1274	ኀ 1284	ኑ 1294	ኦ 12A4	ኰ 12B4
5	ሀ 1205	ሐ 1215	ሠ 1225	ሰ 1235	ቀ 1245	ቐ 1255	ብ 1265	ተ 1275	ኀ 1285	ን 1295	ኦ 12A5	ኰ 12B5
6	ሀ 1206	ሐ 1216	ሠ 1226	ሰ 1236	ቀ 1246	ቐ 1256	ቦ 1266	ቱ 1276	ኀ 1286	ኖ 1296	ኦ 12A6	
7	ሀ 1207	ሐ 1217	ሠ 1227	ሰ 1237	ቀ 1247		ቦ 1267	ቲ 1277	ኀ 1287	ና 1297	ኦ 12A7	
8	ለ 1208	መ 1218	ረ 1228	ሸ 1238	ቈ 1248	ቐ 1258	ሸ 1268	ቸ 1278	ኰ 1288	ኘ 1298	ከ 12A8	ኸ 12B8
9	ሉ 1209	መ 1219	ሩ 1229	ሹ 1239			ሹ 1269	ቹ 1279		ኘ 1299	ከ 12A9	ኸ 12B9
A	ሊ 120A	ሚ 121A	ሪ 122A	ሺ 123A	ቀ 124A	ቐ 125A	ሺ 126A	ቹ 127A	ኰ 128A	ኘ 129A	ከ 12AA	ኸ 12BA
B	ላ 120B	ማ 121B	ራ 122B	ሻ 123B	ቀ 124B	ቐ 125B	ሻ 126B	ቸ 127B	ኰ 128B	ኘ 129B	ከ 12AB	ኸ 12BB
C	ሌ 120C	ሚ 121C	ሪ 122C	ሺ 123C	ቀ 124C	ቐ 125C	ሺ 126C	ቹ 127C	ኰ 128C	ኘ 129C	ከ 12AC	ኸ 12BC
D	ል 120D	ም 121D	ር 122D	ሻ 123D	ቀ 124D	ቐ 125D	ሻ 126D	ቸ 127D	ኰ 128D	ኘ 129D	ከ 12AD	ኸ 12BD
E	ሎ 120E	ሞ 121E	ሮ 122E	ሾ 123E			ሾ 126E	ቹ 127E		ኘ 129E	ከ 12AE	ኸ 12BE
F	ሊ 120F	ሚ 121F	ሪ 122F	ሺ 123F			ሺ 126F	ቹ 127F		ኘ 129F	ከ 12AF	




	12C	12D	12E	12F	130	131	132	133	134	135	136	137
0	ሹ 12C0	ዐ 12D0	ዡ 12E0	ደ 12F0	ጀ 1300	ጐ 1310	ጠ 1320	ጸ 1330	ፀ 1340	ፐ 1350	✱ 1360	፳ 1370
1		ዑ 12D1	ዢ 12E1	ደ 12F1	ጀ 1301		ጡ 1321	ጹ 1331	ፁ 1341	ፑ 1351	፶ 1361	፳ 1371
2	ሹ 12C2	ዒ 12D2	ዣ 12E2	ደ 12F2	ጀ 1302	ጒ 1312	ጢ 1322	ጹ 1332	ፑ 1342	ፑ 1352	፶ 1362	፳ 1372
3	ሹ 12C3	ዓ 12D3	ዣ 12E3	ደ 12F3	ጀ 1303	ጓ 1313	ጣ 1323	ጸ 1333	ፑ 1343	ፑ 1353	፶ 1363	፳ 1373
4	ሹ 12C4	ዒ 12D4	ዣ 12E4	ደ 12F4	ጀ 1304	ጔ 1314	ጤ 1324	ጹ 1334	ፑ 1344	ፑ 1354	፶ 1364	፳ 1374
5	ሹ 12C5	ዐ 12D5	ዣ 12E5	ደ 12F5	ጀ 1305	ጒ 1315	ጣ 1325	ጸ 1335	ፀ 1345	ፑ 1355	፶ 1365	፳ 1375
6		ዐ 12D6	ዣ 12E6	ደ 12F6	ጀ 1306		ጠ 1326	ጸ 1336	ዐ 1346	ፑ 1356	፶ 1366	፳ 1376
7			ዣ 12E7	ደ 12F7	ጀ 1307		ጡ 1327	ጹ 1337	ዐ 1347	ፑ 1357	፶ 1367	፳ 1377
8	ወ 12C8	ዘ 12D8	ዩ 12E8	ደ 12F8	ገ 1308	ኀ 1318	ጨ 1328	ዳ 1338	ፈ 1348	ሯ 1358	፳ 1368	፳ 1378
9	ወ 12C9	ዘ 12D9	ዩ 12E9	ደ 12F9	ገ 1309	ኀ 1319	ጨ 1329	ዳ 1339	ፈ 1349	ሯ 1359	፳ 1369	፳ 1379
A	ዐ 12CA	ዘ 12DA	ዩ 12EA	ደ 12FA	ገ 130A	ኀ 131A	ጨ 132A	ዳ 133A	ፈ 134A	ሯ 135A	፳ 136A	፳ 137A
B	ዐ 12CB	ዘ 12DB	ዩ 12EB	ደ 12FB	ገ 130B	ኀ 131B	ጨ 132B	ዳ 133B	ፈ 134B		፳ 136B	፳ 137B
C	ዐ 12CC	ዘ 12DC	ዩ 12EC	ደ 12FC	ገ 130C	ኀ 131C	ጨ 132C	ዳ 133C	ፈ 134C		፳ 136C	፳ 137C
D	ወ 12CD	ዘ 12DD	ዩ 12ED	ደ 12FD	ገ 130D	ኀ 131D	ጨ 132D	ዳ 133D	ፈ 134D	፳ 135D	፳ 136D	
E	ዐ 12CE	ዘ 12DE	ዩ 12EE	ደ 12FE	ገ 130E	ኀ 131E	ጨ 132E	ዳ 133E	ፈ 134E	፳ 135E	፳ 136E	
F	ዐ 12CF	ዘ 12DF	ዩ 12EF	ደ 12FF	ገ 130F	ኀ 131F	ጨ 132F	ዳ 133F	ፈ 134F	፳ 135F	፳ 136F	

**Syllables**

1200	ሀ	ETHIOPIC SYLLABLE HA	123C	ሸ	ETHIOPIC SYLLABLE SHEE
1201	ሁ	ETHIOPIC SYLLABLE HU	123D	ሸ	ETHIOPIC SYLLABLE SHE
1202	ሂ	ETHIOPIC SYLLABLE HI	123E	ሸ	ETHIOPIC SYLLABLE SHO
1203	ሃ	ETHIOPIC SYLLABLE HAA	123F	ሸ	ETHIOPIC SYLLABLE SHWA
1204	ሄ	ETHIOPIC SYLLABLE HEE	1240	ቀ	ETHIOPIC SYLLABLE QA
1205	ህ	ETHIOPIC SYLLABLE HE	1241	ቁ	ETHIOPIC SYLLABLE QU
1206	ሆ	ETHIOPIC SYLLABLE HO	1242	ቂ	ETHIOPIC SYLLABLE QI
1207	ሐ	ETHIOPIC SYLLABLE HOA	1243	ቃ	ETHIOPIC SYLLABLE QAA
1208	ለ	ETHIOPIC SYLLABLE LA	1244	ቄ	ETHIOPIC SYLLABLE QEE
1209	ሉ	ETHIOPIC SYLLABLE LU	1245	ቅ	ETHIOPIC SYLLABLE QE
120A	ሊ	ETHIOPIC SYLLABLE LI	1246	ቆ	ETHIOPIC SYLLABLE QO
120B	ላ	ETHIOPIC SYLLABLE LAA	1247	ቇ	ETHIOPIC SYLLABLE QOA
120C	ሌ	ETHIOPIC SYLLABLE LEE	1248	ቈ	ETHIOPIC SYLLABLE QWA
120D	ል	ETHIOPIC SYLLABLE LE	1249	☐	<reserved>
120E	ሎ	ETHIOPIC SYLLABLE LO	124A	ቀ	ETHIOPIC SYLLABLE QWI
120F	ሏ	ETHIOPIC SYLLABLE LWA	124B	ቁ	ETHIOPIC SYLLABLE QWAA
1210	ሐ	ETHIOPIC SYLLABLE HHA	124C	ቂ	ETHIOPIC SYLLABLE QWEE
1211	ሐ	ETHIOPIC SYLLABLE HHU	124D	ቀ	ETHIOPIC SYLLABLE QWE
1212	ሐ	ETHIOPIC SYLLABLE HHI	124E	☐	<reserved>
1213	ሐ	ETHIOPIC SYLLABLE HHAA	124F	☐	<reserved>
1214	ሐ	ETHIOPIC SYLLABLE HHEE	1250	ቅ	ETHIOPIC SYLLABLE QHA
1215	ሐ	ETHIOPIC SYLLABLE HHE	1251	ቅ	ETHIOPIC SYLLABLE QHU
1216	ሐ	ETHIOPIC SYLLABLE HHO	1252	ቅ	ETHIOPIC SYLLABLE QHI
1217	ሐ	ETHIOPIC SYLLABLE HHWA	1253	ቅ	ETHIOPIC SYLLABLE QHAA
1218	መ	ETHIOPIC SYLLABLE MA	1254	ቅ	ETHIOPIC SYLLABLE QHEE
1219	ሙ	ETHIOPIC SYLLABLE MU	1255	ቅ	ETHIOPIC SYLLABLE QHE
121A	ማ	ETHIOPIC SYLLABLE MI	1256	ቅ	ETHIOPIC SYLLABLE QHO
121B	ማ	ETHIOPIC SYLLABLE MAA	1257	☐	<reserved>
121C	ሚ	ETHIOPIC SYLLABLE MEE	1258	ቅ	ETHIOPIC SYLLABLE QHWA
121D	ም	ETHIOPIC SYLLABLE ME	1259	☐	<reserved>
121E	ሞ	ETHIOPIC SYLLABLE MO	125A	ቅ	ETHIOPIC SYLLABLE QHWI
121F	ማ	ETHIOPIC SYLLABLE MWA	125B	ቅ	ETHIOPIC SYLLABLE QHWA
1220	ሠ	ETHIOPIC SYLLABLE SZA	125C	ቅ	ETHIOPIC SYLLABLE QHWE
1221	ሠ	ETHIOPIC SYLLABLE SZU	125D	ቅ	ETHIOPIC SYLLABLE QHWE
1222	ሢ	ETHIOPIC SYLLABLE SZI	125E	☐	<reserved>
1223	ሣ	ETHIOPIC SYLLABLE SZAA	125F	☐	<reserved>
1224	ሤ	ETHIOPIC SYLLABLE SZEE	1260	በ	ETHIOPIC SYLLABLE BA
1225	ሥ	ETHIOPIC SYLLABLE SZE	1261	በ	ETHIOPIC SYLLABLE BU
1226	ሦ	ETHIOPIC SYLLABLE SZO	1262	በ	ETHIOPIC SYLLABLE BI
1227	ሧ	ETHIOPIC SYLLABLE SZWA	1263	ባ	ETHIOPIC SYLLABLE BAA
1228	ረ	ETHIOPIC SYLLABLE RA	1264	በ	ETHIOPIC SYLLABLE BEE
1229	ሩ	ETHIOPIC SYLLABLE RU	1265	ብ	ETHIOPIC SYLLABLE BE
122A	ሪ	ETHIOPIC SYLLABLE RI	1266	ቦ	ETHIOPIC SYLLABLE BO
122B	ራ	ETHIOPIC SYLLABLE RAA	1267	ባ	ETHIOPIC SYLLABLE BWA
122C	ሪ	ETHIOPIC SYLLABLE REE	1268	ቨ	ETHIOPIC SYLLABLE VA
122D	ሪ	ETHIOPIC SYLLABLE RE	1269	ቨ	ETHIOPIC SYLLABLE VU
122E	ሪ	ETHIOPIC SYLLABLE RO	126A	ቨ	ETHIOPIC SYLLABLE VI
122F	ሪ	ETHIOPIC SYLLABLE RWA	126B	ቨ	ETHIOPIC SYLLABLE VAA
1230	ሰ	ETHIOPIC SYLLABLE SA	126C	ቨ	ETHIOPIC SYLLABLE VEE
1231	ሰ	ETHIOPIC SYLLABLE SU	126D	ቨ	ETHIOPIC SYLLABLE VE
1232	ሰ	ETHIOPIC SYLLABLE SI	126E	ቨ	ETHIOPIC SYLLABLE VO
1233	ሰ	ETHIOPIC SYLLABLE SAA	126F	ቨ	ETHIOPIC SYLLABLE VWA
1234	ሰ	ETHIOPIC SYLLABLE SEE	1270	ተ	ETHIOPIC SYLLABLE TA
1235	ሰ	ETHIOPIC SYLLABLE SE	1271	ተ	ETHIOPIC SYLLABLE TU
1236	ሰ	ETHIOPIC SYLLABLE SO	1272	ተ	ETHIOPIC SYLLABLE TI
1237	ሰ	ETHIOPIC SYLLABLE SWA	1273	ተ	ETHIOPIC SYLLABLE TAA
1238	ሸ	ETHIOPIC SYLLABLE SHA	1274	ተ	ETHIOPIC SYLLABLE TEE
1239	ሸ	ETHIOPIC SYLLABLE SHU	1275	ተ	ETHIOPIC SYLLABLE TE
123A	ሸ	ETHIOPIC SYLLABLE SHI	1276	ተ	ETHIOPIC SYLLABLE TO
123B	ሸ	ETHIOPIC SYLLABLE SHAA	1277	ተ	ETHIOPIC SYLLABLE TWA
			1278	ተ	ETHIOPIC SYLLABLE CA

1279 ቈ ETHIOPIC SYLLABLE CU  
 127A ቊ ETHIOPIC SYLLABLE CI  
 127B ቋ ETHIOPIC SYLLABLE CAA  
 127C ቌ ETHIOPIC SYLLABLE CEE  
 127D ቎ ETHIOPIC SYLLABLE CE  
 127E ቐ ETHIOPIC SYLLABLE CO  
 127F ቒ 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 ነ፡ ETHIOPIC SYLLABLE NU  
 1292 ነ፣ ETHIOPIC SYLLABLE NI  
 1293 ነ፥ ETHIOPIC SYLLABLE NAA  
 1294 ነ፥፡ ETHIOPIC SYLLABLE NEE  
 1295 ነ፥፣ ETHIOPIC SYLLABLE NE  
 1296 ነ፥፥ ETHIOPIC SYLLABLE NO  
 1297 ነ፥፥፡ ETHIOPIC SYLLABLE NWA  
 1298 ነ፥፥፣ ETHIOPIC SYLLABLE NYA  
 1299 ነ፥፥፥ ETHIOPIC SYLLABLE NYU  
 129A ነ፥፥፥፡ ETHIOPIC SYLLABLE NYI  
 129B ነ፥፥፥፣ ETHIOPIC SYLLABLE NYAA  
 129C ነ፥፥፥፥ ETHIOPIC SYLLABLE NYEE  
 129D ነ፥፥፥፥፡ ETHIOPIC SYLLABLE NYE  
 129E ነ፥፥፥፥፣ ETHIOPIC SYLLABLE NYO  
 129F ነ፥፥፥፥፥ ETHIOPIC SYLLABLE NYWA  
 12A0 አ ETHIOPIC SYLLABLE GLOTTAL A  
 12A1 አ፡ ETHIOPIC SYLLABLE GLOTTAL U  
 12A2 አ፣ ETHIOPIC SYLLABLE GLOTTAL I  
 12A3 አ፥ ETHIOPIC SYLLABLE GLOTTAL AA  
 12A4 አ፥፡ ETHIOPIC SYLLABLE GLOTTAL EE  
 12A5 አ፥፣ ETHIOPIC SYLLABLE GLOTTAL E  
 12A6 አ፥፥ ETHIOPIC SYLLABLE GLOTTAL O  
 12A7 አ፥፥፡ 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 ከ፥፥፣ ETHIOPIC SYLLABLE KWA  
 12B1  <reserved>  
 12B2 ከ፥፥፥ ETHIOPIC SYLLABLE KWI  
 12B3 ከ፥፥፥፡ ETHIOPIC SYLLABLE KWAA  
 12B4 ከ፥፥፥፣ ETHIOPIC SYLLABLE KWEE  
 12B5 ከ፥፥፥፥ ETHIOPIC SYLLABLE KWE

12B6  <reserved>  
 12B7  <reserved>  
 12B8 ከ፥፥፥፥፡ ETHIOPIC SYLLABLE KXA  
 12B9 ከ፥፥፥፥፣ ETHIOPIC SYLLABLE KXU  
 12BA ከ፥፥፥፥፥ ETHIOPIC SYLLABLE KXI  
 12BB ከ፥፥፥፥፥፡ ETHIOPIC SYLLABLE KXAA  
 12BC ከ፥፥፥፥፥፣ ETHIOPIC SYLLABLE KXEE  
 12BD ከ፥፥፥፥፥፥ ETHIOPIC SYLLABLE KXE  
 12BE ከ፥፥፥፥፥፥፡ ETHIOPIC SYLLABLE KXO  
 12BF  <reserved>  
 12C0 ከ፥፥፥፥፥፥፡ ETHIOPIC SYLLABLE KXWA  
 12C1  <reserved>  
 12C2 ከ፥፥፥፥፥፥፣ ETHIOPIC SYLLABLE KXWI  
 12C3 ከ፥፥፥፥፥፥፥ ETHIOPIC SYLLABLE KXWAA  
 12C4 ከ፥፥፥፥፥፥፥፡ ETHIOPIC SYLLABLE KXWEE  
 12C5 ከ፥፥፥፥፥፥፥፣ ETHIOPIC SYLLABLE KXWE  
 12C6  <reserved>  
 12C7  <reserved>  
 12C8 ወ ETHIOPIC SYLLABLE WA  
 12C9 ወ፡ ETHIOPIC SYLLABLE WU  
 12CA ወ፣ ETHIOPIC SYLLABLE WI  
 12CB ወ፥ ETHIOPIC SYLLABLE WAA  
 12CC ወ፥፡ ETHIOPIC SYLLABLE WEE  
 12CD ወ፥፣ ETHIOPIC SYLLABLE WE  
 12CE ወ፥፥ ETHIOPIC SYLLABLE WO  
 12CF ወ፥፥፡ ETHIOPIC SYLLABLE WOA  
 12D0 ወ፥፥፥ ETHIOPIC SYLLABLE PHARYNGEAL A  
 12D1 ወ፥፥፥፡ ETHIOPIC SYLLABLE PHARYNGEAL U  
 12D2 ወ፥፥፥፣ ETHIOPIC SYLLABLE PHARYNGEAL I  
 12D3 ወ፥፥፥፥ ETHIOPIC SYLLABLE PHARYNGEAL AA  
 12D4 ወ፥፥፥፥፡ ETHIOPIC SYLLABLE PHARYNGEAL EE  
 12D5 ወ፥፥፥፥፣ ETHIOPIC SYLLABLE PHARYNGEAL E  
 12D6 ወ፥፥፥፥፥ ETHIOPIC SYLLABLE PHARYNGEAL O  
 12D7  <reserved>  
 12D8 ሀ ETHIOPIC SYLLABLE ZA  
 12D9 ሀ፡ ETHIOPIC SYLLABLE ZU  
 12DA ሀ፣ ETHIOPIC SYLLABLE ZI  
 12DB ሀ፥ ETHIOPIC SYLLABLE ZAA  
 12DC ሀ፥፡ ETHIOPIC SYLLABLE ZEE  
 12DD ሀ፥፣ ETHIOPIC SYLLABLE ZE  
 12DE ሀ፥፥ ETHIOPIC SYLLABLE ZO  
 12DF ሀ፥፥፡ ETHIOPIC SYLLABLE ZWA  
 12E0 ሀ፥፥፣ ETHIOPIC SYLLABLE ZHA  
 12E1 ሀ፥፥፥ ETHIOPIC SYLLABLE ZHU  
 12E2 ሀ፥፥፥፡ ETHIOPIC SYLLABLE ZHI  
 12E3 ሀ፥፥፥፣ ETHIOPIC SYLLABLE ZHAA  
 12E4 ሀ፥፥፥፥ ETHIOPIC SYLLABLE ZHEE  
 12E5 ሀ፥፥፥፥፡ ETHIOPIC SYLLABLE ZHE  
 12E6 ሀ፥፥፥፥፣ ETHIOPIC SYLLABLE ZHO  
 12E7 ሀ፥፥፥፥፥ ETHIOPIC SYLLABLE ZHWA  
 12E8 ያ ETHIOPIC SYLLABLE YA  
 12E9 ያ፡ ETHIOPIC SYLLABLE YU  
 12EA ያ፣ ETHIOPIC SYLLABLE YI  
 12EB ያ፥ ETHIOPIC SYLLABLE YAA  
 12EC ያ፥፡ ETHIOPIC SYLLABLE YEE  
 12ED ያ፥፣ ETHIOPIC SYLLABLE YE  
 12EE ያ፥፥ ETHIOPIC SYLLABLE YO  
 12EF ያ፥፥፡ ETHIOPIC SYLLABLE YOA  
 12F0 ያ፥፥፣ ETHIOPIC SYLLABLE DA  
 12F1 ያ፥፥፥ ETHIOPIC SYLLABLE DU  
 12F2 ያ፥፥፥፡ ETHIOPIC SYLLABLE DI

12F3 አ ETHIOPIC SYLLABLE DAA  
 12F4 ደ ETHIOPIC SYLLABLE DEE  
 12F5 ድ 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 ድ ETHIOPIC SYLLABLE DDE  
 12FE ደ ETHIOPIC SYLLABLE DDO  
 12FF ደ ETHIOPIC SYLLABLE DDWA  
 1300 ጃ ETHIOPIC SYLLABLE JA  
 1301 ጃ ETHIOPIC SYLLABLE JU  
 1302 ጃ ETHIOPIC SYLLABLE JI  
 1303 ጃ ETHIOPIC SYLLABLE JAA  
 1304 ጃ ETHIOPIC SYLLABLE JEE  
 1305 ጃ ETHIOPIC SYLLABLE JE  
 1306 ጃ ETHIOPIC SYLLABLE JO  
 1307 ጃ 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>  
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 1313 ገ ETHIOPIC SYLLABLE GWAA  
 1314 ገ ETHIOPIC SYLLABLE GWEE  
 1315 ገ ETHIOPIC SYLLABLE GWE  
 1316  <reserved>  
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 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 አ ETHIOPIC SYLLABLE PHA  
 1331 አ ETHIOPIC SYLLABLE PHU  
 1332 አ ETHIOPIC SYLLABLE PHI  
 1333 አ ETHIOPIC SYLLABLE PHAA  
 1334 አ ETHIOPIC SYLLABLE PHEE  
 1335 አ ETHIOPIC SYLLABLE PHE  
 1336 አ ETHIOPIC SYLLABLE PHO  
 1337 አ ETHIOPIC SYLLABLE PHWA  
 1338 አ ETHIOPIC SYLLABLE TSA  
 1339 አ ETHIOPIC SYLLABLE TSU  
 133A አ ETHIOPIC SYLLABLE TSI  
 133B አ ETHIOPIC SYLLABLE TSAA  
 133C አ ETHIOPIC SYLLABLE TSEE  
 133D አ ETHIOPIC SYLLABLE TSE  
 133E አ ETHIOPIC SYLLABLE TSO  
 133F አ 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 ፐ ETHIOPIC COMBINING GEMINATION AND VOWEL LENGTH MARK  
 • Basketo  
 135E ፐ ETHIOPIC COMBINING VOWEL LENGTH MARK  
 • Basketo  
 135F ፐ 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	፸	ETHIOPIC NUMBER SEVENTY
1379	፹	ETHIOPIC NUMBER EIGHTY
137A	፺	ETHIOPIC NUMBER NINETY
137B	፻	ETHIOPIC NUMBER HUNDRED
137C	፳፻	ETHIOPIC NUMBER TEN THOUSAND

	138	139
0	ሙ 1380	ሥ 1390
1	ማላ 1381	ሥ 1391
2	ሚ 1382	ሥ 1392
3	ምሙ 1383	ሥ 1393
4	ሎ 1384	ሥ 1394
5	ሉ 1385	ሥ 1395
6	ቤ 1386	ሥ 1396
7	ሎ 1387	ሥ 1397
8	ፈ 1388	ሥ 1398
9	ፈ 1389	ተ 1399
A	ፈ 138A	
B	ፈ 138B	
C	ፈ 138C	
D	ፈ 138D	
E	ፈ 138E	
F	ፈ 138F	

**Syllables for Sebatbeit**

1380	ሙ	ETHIOPIC SYLLABLE SEBATBEIT MWA
1381	ማላ	ETHIOPIC SYLLABLE MWI
1382	ሚ	ETHIOPIC SYLLABLE MWEE
1383	ምሙ	ETHIOPIC SYLLABLE MWE
1384	ሎ	ETHIOPIC SYLLABLE SEBATBEIT BWA
1385	ሉ	ETHIOPIC SYLLABLE BWI
1386	ቤ	ETHIOPIC SYLLABLE BWEE
1387	ሎ	ETHIOPIC SYLLABLE BWE
1388	ፈ	ETHIOPIC SYLLABLE SEBATBEIT FWA
1389	ፈ	ETHIOPIC SYLLABLE FWI
138A	ፈ	ETHIOPIC SYLLABLE FWEE
138B	ፈ	ETHIOPIC SYLLABLE FWE
138C	ፈ	ETHIOPIC SYLLABLE SEBATBEIT PWA
138D	ፈ	ETHIOPIC SYLLABLE PWI
138E	ፈ	ETHIOPIC SYLLABLE PWEE
138F	ፈ	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	ሥ	ETHIOPIC TONAL MARK RIKRIK
1393	ሥ	ETHIOPIC TONAL MARK SHORT RIKRIK
1394	ሥ	ETHIOPIC TONAL MARK DIFAT
1395	ሥ	ETHIOPIC TONAL MARK KENAT
1396	ሥ	ETHIOPIC TONAL MARK CHIRET
1397	ሥ	ETHIOPIC TONAL MARK HIDET
1398	ሥ	ETHIOPIC TONAL MARK DERET-HIDET
1399	ተ	ETHIOPIC TONAL MARK KURT




	13A	13B	13C	13D	13E	13F
0	D 13A0	Ɔ 13B0	G 13C0	Ꮝ 13D0	Ꮖ 13E0	Ꮗ 13F0
1	R 13A1	Γ 13B1	Λ 13C1	Ꮖ 13D1	Ꮖ 13E1	Ꮗ 13F1
2	T 13A2	Ꮖ 13B2	h 13C2	R 13D2	P 13E2	Ꮖ 13F2
3	Ꮖ 13A3	W 13B3	Z 13C3	L 13D3	G 13E3	G 13F3
4	Ꮖ 13A4	Ꮖ 13B4	Ꮖ 13C4	W 13D4	V 13E4	B 13F4
5	i 13A5	Ꮖ 13B5	Ꮖ 13C5	Ꮖ 13D5	Ꮖ 13E5	
6	Ꮖ 13A6	G 13B6	T 13C6	Ꮖ 13D6	K 13E6	
7	Ꮖ 13A7	M 13B7	Ꮖ 13C7	Ꮖ 13D7	Ꮖ 13E7	
8	Ꮖ 13A8	Ꮖ 13B8	Ꮖ 13C8	Ꮖ 13D8	Ꮖ 13E8	
9	Y 13A9	Ꮖ 13B9	Ꮖ 13C9	V 13D9	G 13E9	
A	A 13AA	Ꮖ 13BA	Ꮖ 13CA	S 13DA	Ꮖ 13EA	
B	J 13AB	H 13BB	Ꮖ 13CB	Ꮖ 13DB	Ꮖ 13EB	
C	E 13AC	Ꮖ 13BC	Ꮖ 13CC	Ꮖ 13DC	Ꮖ 13EC	
D	Ꮖ 13AD	Y 13BD	Ꮖ 13CD	L 13DD	Ꮖ 13ED	
E	Ꮖ 13AE	Ꮖ 13BE	4 13CE	L 13DE	6 13EE	
F	Ꮖ 13AF	Ꮖ 13BF	Ꮖ 13CF	C 13DF	Ꮖ 13EF	

**Syllables**

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

	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

	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 △ CANADIAN SYLLABICS AAI  
• Inuktitut

1403 Δ CANADIAN SYLLABICS I  
• Carrier (O)

1404 ⚠ 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 ˇ 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 h CANADIAN SYLLABICS CARRIER H

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

144D ŋ CANADIAN SYLLABICS TAAI  
• Inuktitut

144E n CANADIAN SYLLABICS TI  
• Athapascan (DE), Carrier (DO)

144F ŋ CANADIAN SYLLABICS TII

1450 ⊃ CANADIAN SYLLABICS TO  
• Inuktitut (TU), Athapascan (DO), Carrier (DE), Sayisi (DU)



1451	ᑕ	CANADIAN SYLLABICS TOO	1482	ᑕᑭ	CANADIAN SYLLABICS NASKAPI KWAA
		• Inuktitut (TUU)	1483	ᑕᑭ	CANADIAN SYLLABICS K
1452	ᑕᑭ	CANADIAN SYLLABICS Y-CREE TOO	1484	ᑕᑭ	CANADIAN SYLLABICS KW
1453	ᑕᑭ	CANADIAN SYLLABICS CARRIER DEE			• East Cree
1454	ᑕᑭ	CANADIAN SYLLABICS CARRIER DI	1485	ᑕᑭ	CANADIAN SYLLABICS SOUTH-SLAVEY KEH
1455	ᑕ	CANADIAN SYLLABICS TA	1486	ᑕᑭ	CANADIAN SYLLABICS SOUTH-SLAVEY KIH
		• Athapascan (DA)	1487	ᑕᑭ	CANADIAN SYLLABICS SOUTH-SLAVEY KOH
1456	ᑕᑭ	CANADIAN SYLLABICS TAA	1488	ᑕᑭ	CANADIAN SYLLABICS SOUTH-SLAVEY KAH
1457	ᑕᑭ	CANADIAN SYLLABICS TWE	1489	ᑕᑭ	CANADIAN SYLLABICS CE
1458	ᑕᑭ	CANADIAN SYLLABICS WEST-CREE TWE			• Inuktitut (GAI), Athapascan (DHE), Sayisi (THE), Blackfoot (MA)
1459	ᑕᑭ	CANADIAN SYLLABICS TWI	148A	ᑕᑭ	CANADIAN SYLLABICS CAAI
145A	ᑕᑭ	CANADIAN SYLLABICS WEST-CREE TWI			• Inuktitut (GAAI)
145B	ᑕᑭ	CANADIAN SYLLABICS TWII	148B	ᑕᑭ	CANADIAN SYLLABICS CI
145C	ᑕᑭ	CANADIAN SYLLABICS WEST-CREE TWII			• Inuktitut (GI), Athapascan (DHI), Sayisi (THI), Blackfoot (ME)
145D	ᑕᑭ	CANADIAN SYLLABICS TWO	148C	ᑕᑭ	CANADIAN SYLLABICS CII
145E	ᑕᑭ	CANADIAN SYLLABICS WEST-CREE TWO			• Inuktitut (GII)
145F	ᑕᑭ	CANADIAN SYLLABICS TWOO	148D	ᑕᑭ	CANADIAN SYLLABICS CO
1460	ᑕᑭ	CANADIAN SYLLABICS WEST-CREE TWOO			• Inuktitut (GU), Athapascan (DHO), Sayisi (THO), Blackfoot (MI)
1461	ᑕᑭ	CANADIAN SYLLABICS TWA	148E	ᑕᑭ	CANADIAN SYLLABICS COO
1462	ᑕᑭ	CANADIAN SYLLABICS WEST-CREE TWA			• Inuktitut (GUU)
1463	ᑕᑭ	CANADIAN SYLLABICS TWAA	148F	ᑕᑭ	CANADIAN SYLLABICS Y-CREE COO
1464	ᑕᑭ	CANADIAN SYLLABICS WEST-CREE TWAA	1490	ᑕᑭ	CANADIAN SYLLABICS CA
1465	ᑕᑭ	CANADIAN SYLLABICS NASKAPI TWAA			• Inuktitut (GA), Athapascan (DHA), Sayisi (THA), Blackfoot (MO)
1466	ᑕ	CANADIAN SYLLABICS T	1491	ᑕᑭ	CANADIAN SYLLABICS CAA
1467	ᑕᑭ	CANADIAN SYLLABICS TTE			• Inuktitut (GAA)
		• South Slavey (DEH)	1492	ᑕᑭ	CANADIAN SYLLABICS CWE
1468	ᑕᑭ	CANADIAN SYLLABICS TTI	1493	ᑕᑭ	CANADIAN SYLLABICS WEST-CREE CWE
		• South Slavey (DIH)	1494	ᑕᑭ	CANADIAN SYLLABICS CWI
1469	ᑕᑭ	CANADIAN SYLLABICS TTO	1495	ᑕᑭ	CANADIAN SYLLABICS WEST-CREE CWI
		• South Slavey (DOH)	1496	ᑕᑭ	CANADIAN SYLLABICS CWII
146A	ᑕᑭ	CANADIAN SYLLABICS TTA	1497	ᑕᑭ	CANADIAN SYLLABICS WEST-CREE CWII
		• South Slavey (DAH)	1498	ᑕᑭ	CANADIAN SYLLABICS CWO
146B	ᑕᑭ	CANADIAN SYLLABICS KE	1499	ᑕᑭ	CANADIAN SYLLABICS WEST-CREE CWO
		• Inuktitut (KAI), Blackfoot (PA)	149A	ᑕᑭ	CANADIAN SYLLABICS CWOO
146C	ᑕᑭ	CANADIAN SYLLABICS KAAI	149B	ᑕᑭ	CANADIAN SYLLABICS WEST-CREE CWOO
		• Inuktitut	149C	ᑕᑭ	CANADIAN SYLLABICS CWA
146D	ᑕᑭ	CANADIAN SYLLABICS KI	149D	ᑕᑭ	CANADIAN SYLLABICS WEST-CREE CWA
		• Blackfoot (PE)	149E	ᑕᑭ	CANADIAN SYLLABICS CWAA
146E	ᑕᑭ	CANADIAN SYLLABICS KII	149F	ᑕᑭ	CANADIAN SYLLABICS WEST-CREE CWAA
146F	ᑕᑭ	CANADIAN SYLLABICS KO	14A0	ᑕᑭ	CANADIAN SYLLABICS NASKAPI CWAA
		• Inuktitut (KU), Sayisi (KU), Blackfoot (PI)	14A1	ᑕᑭ	CANADIAN SYLLABICS C
1470	ᑕᑭ	CANADIAN SYLLABICS KOO			• Inuktitut (G), Sayisi (T)
		• Inuktitut (KUU)	14A2	ᑕᑭ	CANADIAN SYLLABICS SAYISI TH
1471	ᑕᑭ	CANADIAN SYLLABICS Y-CREE KOO			• Athapascan (DH)
1472	ᑕᑭ	CANADIAN SYLLABICS KA	14A3	ᑕᑭ	CANADIAN SYLLABICS ME
		• Blackfoot (PO)			• Inuktitut (MAI), Blackfoot (TA)
1473	ᑕᑭ	CANADIAN SYLLABICS KAA	14A4	ᑕᑭ	CANADIAN SYLLABICS MAAI
1474	ᑕᑭ	CANADIAN SYLLABICS KWE			• Inuktitut
1475	ᑕᑭ	CANADIAN SYLLABICS WEST-CREE KWE	14A5	ᑕᑭ	CANADIAN SYLLABICS MI
1476	ᑕᑭ	CANADIAN SYLLABICS KWI			• Blackfoot (TE)
1477	ᑕᑭ	CANADIAN SYLLABICS WEST-CREE KWI	14A6	ᑕᑭ	CANADIAN SYLLABICS MII
1478	ᑕᑭ	CANADIAN SYLLABICS KWII	14A7	ᑕᑭ	CANADIAN SYLLABICS MO
1479	ᑕᑭ	CANADIAN SYLLABICS WEST-CREE KWII			• Inuktitut (MU), Sayisi (MU), Blackfoot (TI)
147A	ᑕᑭ	CANADIAN SYLLABICS KWO	14A8	ᑕᑭ	CANADIAN SYLLABICS MOO
147B	ᑕᑭ	CANADIAN SYLLABICS WEST-CREE KWO			• Inuktitut (MUU)
147C	ᑕᑭ	CANADIAN SYLLABICS KWOO	14A9	ᑕᑭ	CANADIAN SYLLABICS Y-CREE MOO
147D	ᑕᑭ	CANADIAN SYLLABICS WEST-CREE KWOO	14AA	ᑕᑭ	CANADIAN SYLLABICS MA
147E	ᑕᑭ	CANADIAN SYLLABICS KWA			• Blackfoot (TO)
147F	ᑕᑭ	CANADIAN SYLLABICS WEST-CREE KWA			
1480	ᑕᑭ	CANADIAN SYLLABICS KWAA			
1481	ᑕᑭ	CANADIAN SYLLABICS WEST-CREE KWAA			

14AB	ᐅ	CANADIAN SYLLABICS MAA	14DF	ᐃ	CANADIAN SYLLABICS WEST-CREE LWI
14AC	ᐃ	CANADIAN SYLLABICS MWE	14E0	ᐃ	CANADIAN SYLLABICS LWII
14AD	ᐃ	CANADIAN SYLLABICS WEST-CREE MWE	14E1	ᐃ	CANADIAN SYLLABICS WEST-CREE LWII
14AE	ᐃ	CANADIAN SYLLABICS MWI	14E2	ᐃ	CANADIAN SYLLABICS LWO
14AF	ᐃ	CANADIAN SYLLABICS WEST-CREE MWI	14E3	ᐃ	CANADIAN SYLLABICS WEST-CREE LWO
14B0	ᐃ	CANADIAN SYLLABICS MWII	14E4	ᐃ	CANADIAN SYLLABICS LWOO
14B1	ᐃ	CANADIAN SYLLABICS WEST-CREE MWII	14E5	ᐃ	CANADIAN SYLLABICS WEST-CREE LWOO
14B2	ᐃ	CANADIAN SYLLABICS MWO	14E6	ᐃ	CANADIAN SYLLABICS LWA
14B3	ᐃ	CANADIAN SYLLABICS WEST-CREE MWO	14E7	ᐃ	CANADIAN SYLLABICS WEST-CREE LWA
14B4	ᐃ	CANADIAN SYLLABICS MWOO	14E8	ᐃ	CANADIAN SYLLABICS LWAA
14B5	ᐃ	CANADIAN SYLLABICS WEST-CREE MWOO	14E9	ᐃ	CANADIAN SYLLABICS WEST-CREE LWAA
14B6	ᐃ	CANADIAN SYLLABICS MWA	14EA	ᐃ	CANADIAN SYLLABICS L
14B7	ᐃ	CANADIAN SYLLABICS WEST-CREE MWA	14EB	ᐃ	CANADIAN SYLLABICS WEST-CREE L
14B8	ᐃ	CANADIAN SYLLABICS MWAA	14EC	ᐃ	CANADIAN SYLLABICS MEDIAL L
14B9	ᐃ	CANADIAN SYLLABICS WEST-CREE MWAA	14ED	ᐃ	CANADIAN SYLLABICS SE
14BA	ᐃ	CANADIAN SYLLABICS NASKAPI MWAA			• Inuktitut (SAI), Blackfoot (SA)
14BB	ᐃ	CANADIAN SYLLABICS M	14EE	ᐃ	CANADIAN SYLLABICS SAAI
14BC	ᐃ	CANADIAN SYLLABICS WEST-CREE M			• Inuktitut
		• Carrier (M)	14EF	ᐃ	CANADIAN SYLLABICS SI
14BD	ᐃ	CANADIAN SYLLABICS MH			• Blackfoot (SE)
14BE	ᐃ	CANADIAN SYLLABICS ATHAPASCAN M	14F0	ᐃ	CANADIAN SYLLABICS SII
14BF	ᐃ	CANADIAN SYLLABICS SAYISI M	14F1	ᐃ	CANADIAN SYLLABICS SO
14C0	ᐃ	CANADIAN SYLLABICS NE			• Inuktitut (SU), Sayisi (SU), Blackfoot (SI)
		• Inuktitut (NAI)	14F2	ᐃ	CANADIAN SYLLABICS SOO
14C1	ᐃ	CANADIAN SYLLABICS NAAI			• Inuktitut (SUU)
		• Inuktitut	14F3	ᐃ	CANADIAN SYLLABICS Y-CREE SOO
14C2	ᐃ	CANADIAN SYLLABICS NI	14F4	ᐃ	CANADIAN SYLLABICS SA
14C3	ᐃ	CANADIAN SYLLABICS NII			• Blackfoot (SO)
14C4	ᐃ	CANADIAN SYLLABICS NO	14F5	ᐃ	CANADIAN SYLLABICS SAA
		• Inuktitut (NU), Sayisi (NU)	14F6	ᐃ	CANADIAN SYLLABICS SWE
14C5	ᐃ	CANADIAN SYLLABICS NOO	14F7	ᐃ	CANADIAN SYLLABICS WEST-CREE SWE
		• Inuktitut (NUU)	14F8	ᐃ	CANADIAN SYLLABICS SWI
14C6	ᐃ	CANADIAN SYLLABICS Y-CREE NOO	14F9	ᐃ	CANADIAN SYLLABICS WEST-CREE SWI
14C7	ᐃ	CANADIAN SYLLABICS NA	14FA	ᐃ	CANADIAN SYLLABICS SWII
14C8	ᐃ	CANADIAN SYLLABICS NAA	14FB	ᐃ	CANADIAN SYLLABICS WEST-CREE SWII
14C9	ᐃ	CANADIAN SYLLABICS NWE	14FC	ᐃ	CANADIAN SYLLABICS SWO
14CA	ᐃ	CANADIAN SYLLABICS WEST-CREE NWE	14FD	ᐃ	CANADIAN SYLLABICS WEST-CREE SWO
14CB	ᐃ	CANADIAN SYLLABICS NWA	14FE	ᐃ	CANADIAN SYLLABICS SWOO
14CC	ᐃ	CANADIAN SYLLABICS WEST-CREE NWA	14FF	ᐃ	CANADIAN SYLLABICS WEST-CREE SWOO
14CD	ᐃ	CANADIAN SYLLABICS NWAA	1500	ᐃ	CANADIAN SYLLABICS SWA
14CE	ᐃ	CANADIAN SYLLABICS WEST-CREE NWAA	1501	ᐃ	CANADIAN SYLLABICS WEST-CREE SWA
14CF	ᐃ	CANADIAN SYLLABICS NASKAPI NWAA	1502	ᐃ	CANADIAN SYLLABICS SWAA
14D0	ᐃ	CANADIAN SYLLABICS N	1503	ᐃ	CANADIAN SYLLABICS WEST-CREE SWAA
14D1	ᐃ	CANADIAN SYLLABICS CARRIER NG	1504	ᐃ	CANADIAN SYLLABICS NASKAPI SWAA
14D2	ᐃ	CANADIAN SYLLABICS NH	1505	ᐃ	CANADIAN SYLLABICS S
14D3	ᐃ	CANADIAN SYLLABICS LE	1506	ᐃ	CANADIAN SYLLABICS ATHAPASCAN S
		• Inuktitut (LAI)	1507	ᐃ	CANADIAN SYLLABICS SW
14D4	ᐃ	CANADIAN SYLLABICS LAAI	1508	ᐃ	CANADIAN SYLLABICS BLACKFOOT S
		• Inuktitut	1509	ᐃ	CANADIAN SYLLABICS MOOSE-CREE SK
14D5	ᐃ	CANADIAN SYLLABICS LI	150A	ᐃ	CANADIAN SYLLABICS NASKAPI SKW
14D6	ᐃ	CANADIAN SYLLABICS LII	150B	ᐃ	CANADIAN SYLLABICS NASKAPI S-W
14D7	ᐃ	CANADIAN SYLLABICS LO	150C	ᐃ	CANADIAN SYLLABICS NASKAPI SPWA
		• Inuktitut (LU)	150D	ᐃ	CANADIAN SYLLABICS NASKAPI STWA
14D8	ᐃ	CANADIAN SYLLABICS LOO	150E	ᐃ	CANADIAN SYLLABICS NASKAPI SKWA
		• Inuktitut (LUU)	150F	ᐃ	CANADIAN SYLLABICS NASKAPI SCWA
14D9	ᐃ	CANADIAN SYLLABICS Y-CREE LOO	1510	ᐃ	CANADIAN SYLLABICS SHE
14DA	ᐃ	CANADIAN SYLLABICS LA	1511	ᐃ	CANADIAN SYLLABICS SHI
14DB	ᐃ	CANADIAN SYLLABICS LAA	1512	ᐃ	CANADIAN SYLLABICS SHII
14DC	ᐃ	CANADIAN SYLLABICS LWE	1513	ᐃ	CANADIAN SYLLABICS SHO
14DD	ᐃ	CANADIAN SYLLABICS WEST-CREE LWE	1514	ᐃ	CANADIAN SYLLABICS SHOO
14DE	ᐃ	CANADIAN SYLLABICS LWI	1515	ᐃ	CANADIAN SYLLABICS SHA

1516	ᑭ	CANADIAN SYLLABICS SHAA	1548	ᑭ	CANADIAN SYLLABICS RO
1517	ᑭ	CANADIAN SYLLABICS SHWE			• Inuktitut (RU)
1518	ᑭ	CANADIAN SYLLABICS WEST-CREE SHWE	1549	ᑭ	CANADIAN SYLLABICS ROO
1519	ᑭ	CANADIAN SYLLABICS SHWI			• Inuktitut (RUU)
151A	ᑭ	CANADIAN SYLLABICS WEST-CREE SHWI	154A	ᑭ	CANADIAN SYLLABICS WEST-CREE LO
151B	ᑭ	CANADIAN SYLLABICS SHWII			• Sayisi (LU)
151C	ᑭ	CANADIAN SYLLABICS WEST-CREE SHWII	154B	ᑭ	CANADIAN SYLLABICS RA
151D	ᑭ	CANADIAN SYLLABICS SHWO	154C	ᑭ	CANADIAN SYLLABICS RAA
151E	ᑭ	CANADIAN SYLLABICS WEST-CREE SHWO	154D	ᑭ	CANADIAN SYLLABICS WEST-CREE LA
151F	ᑭ	CANADIAN SYLLABICS SHWO	154E	ᑭ	CANADIAN SYLLABICS RWAA
1520	ᑭ	CANADIAN SYLLABICS WEST-CREE SHWO	154F	ᑭ	CANADIAN SYLLABICS WEST-CREE RWAA
1521	ᑭ	CANADIAN SYLLABICS SHWA	1550	ᑭ	CANADIAN SYLLABICS R
1522	ᑭ	CANADIAN SYLLABICS WEST-CREE SHWA	1551	ᑭ	CANADIAN SYLLABICS WEST-CREE R
1523	ᑭ	CANADIAN SYLLABICS SHWAA	1552	ᑭ	CANADIAN SYLLABICS MEDIAL R
1524	ᑭ	CANADIAN SYLLABICS WEST-CREE SHWAA	1553	ᑭ	CANADIAN SYLLABICS FE
1525	ᑭ	CANADIAN SYLLABICS SH			• Inuktitut (FAI)
1526	ᑭ	CANADIAN SYLLABICS YE	1554	ᑭ	CANADIAN SYLLABICS FAAI
		• Inuktitut (YAI), Blackfoot (YA)			• Inuktitut
1527	ᑭ	CANADIAN SYLLABICS YAAI	1555	ᑭ	CANADIAN SYLLABICS FI
		• Inuktitut	1556	ᑭ	CANADIAN SYLLABICS FII
1528	ᑭ	CANADIAN SYLLABICS YI	1557	ᑭ	CANADIAN SYLLABICS FO
		• Blackfoot (YE)	1558	ᑭ	CANADIAN SYLLABICS FOO
1529	ᑭ	CANADIAN SYLLABICS YII	1559	ᑭ	CANADIAN SYLLABICS FA
152A	ᑭ	CANADIAN SYLLABICS YO	155A	ᑭ	CANADIAN SYLLABICS FAA
		• Inuktitut (YU), Blackfoot (YI)	155B	ᑭ	CANADIAN SYLLABICS FWAA
152B	ᑭ	CANADIAN SYLLABICS YOO	155C	ᑭ	CANADIAN SYLLABICS WEST-CREE FWAA
		• Inuktitut (YUU)	155D	ᑭ	CANADIAN SYLLABICS F
152C	ᑭ	CANADIAN SYLLABICS Y-CREE YOO	155E	ᑭ	CANADIAN SYLLABICS THE
152D	ᑭ	CANADIAN SYLLABICS YA			• Sayisi (TE)
		• Blackfoot (YO)	155F	ᑭ	CANADIAN SYLLABICS N-CREE THE
152E	ᑭ	CANADIAN SYLLABICS YAA	1560	ᑭ	CANADIAN SYLLABICS THI
152F	ᑭ	CANADIAN SYLLABICS YWE			• Sayisi (TI)
1530	ᑭ	CANADIAN SYLLABICS WEST-CREE YWE	1561	ᑭ	CANADIAN SYLLABICS N-CREE THI
1531	ᑭ	CANADIAN SYLLABICS YWI	1562	ᑭ	CANADIAN SYLLABICS THII
1532	ᑭ	CANADIAN SYLLABICS WEST-CREE YWI	1563	ᑭ	CANADIAN SYLLABICS N-CREE THII
1533	ᑭ	CANADIAN SYLLABICS YWII	1564	ᑭ	CANADIAN SYLLABICS THO
1534	ᑭ	CANADIAN SYLLABICS WEST-CREE YWII			• Sayisi (TU)
1535	ᑭ	CANADIAN SYLLABICS YWO	1565	ᑭ	CANADIAN SYLLABICS THOO
1536	ᑭ	CANADIAN SYLLABICS WEST-CREE YWO	1566	ᑭ	CANADIAN SYLLABICS THA
1537	ᑭ	CANADIAN SYLLABICS YWO			• Sayisi (TA)
1538	ᑭ	CANADIAN SYLLABICS WEST-CREE YWO	1567	ᑭ	CANADIAN SYLLABICS THAA
1539	ᑭ	CANADIAN SYLLABICS YWA	1568	ᑭ	CANADIAN SYLLABICS THWAA
153A	ᑭ	CANADIAN SYLLABICS WEST-CREE YWA	1569	ᑭ	CANADIAN SYLLABICS WEST-CREE THWAA
153B	ᑭ	CANADIAN SYLLABICS YWAA	156A	ᑭ	CANADIAN SYLLABICS TH
153C	ᑭ	CANADIAN SYLLABICS WEST-CREE YWAA	156B	ᑭ	CANADIAN SYLLABICS TTTH
153D	ᑭ	CANADIAN SYLLABICS NASKAPI YWAA	156C	ᑭ	CANADIAN SYLLABICS TTHI
153E	ᑭ	CANADIAN SYLLABICS Y	156D	ᑭ	CANADIAN SYLLABICS TTHO
153F	ᑭ	CANADIAN SYLLABICS BIBLE-CREE Y			• Sayisi (TTHU)
1540	ᑭ	CANADIAN SYLLABICS WEST-CREE Y	156E	ᑭ	CANADIAN SYLLABICS TTHA
1541	ᑭ	CANADIAN SYLLABICS SAYISI YI	156F	ᑭ	CANADIAN SYLLABICS TTH
1542	ᑭ	CANADIAN SYLLABICS RE			• probably a mistaken interpretation of an asterisk used to mark a proper noun → 002A * asterisk
		• Inuktitut (RAI)	1570	ᑭ	CANADIAN SYLLABICS TYE
1543	ᑭ	CANADIAN SYLLABICS R-CREE RE	1571	ᑭ	CANADIAN SYLLABICS TYI
		• Athapascan (LE)	1572	ᑭ	CANADIAN SYLLABICS TYO
1544	ᑭ	CANADIAN SYLLABICS WEST-CREE LE	1573	ᑭ	CANADIAN SYLLABICS TYA
		• Athapascan (LI)	1574	ᑭ	CANADIAN SYLLABICS NUNAVIK HE
1545	ᑭ	CANADIAN SYLLABICS RAAI	1575	ᑭ	CANADIAN SYLLABICS NUNAVIK HI
		• Inuktitut	1576	ᑭ	CANADIAN SYLLABICS NUNAVIK HII
1546	ᑭ	CANADIAN SYLLABICS RI	1577	ᑭ	CANADIAN SYLLABICS NUNAVIK HO
1547	ᑭ	CANADIAN SYLLABICS RII	1578	ᑭ	CANADIAN SYLLABICS NUNAVIK HOO

1579	ᑭ	CANADIAN SYLLABICS NUNAVIK HA	15A8	ᑭ	CANADIAN SYLLABICS TH-CREE THI
157A	ᑭ	CANADIAN SYLLABICS NUNAVIK HAA	15A9	ᑭ	CANADIAN SYLLABICS TH-CREE THII
157B	ᑭ	CANADIAN SYLLABICS NUNAVIK H	15AA	ᑭ	CANADIAN SYLLABICS TH-CREE THO
157C	ᑭ	CANADIAN SYLLABICS NUNAVUT H	15AB	ᑭ	CANADIAN SYLLABICS TH-CREE THOO
157D	×	CANADIAN SYLLABICS HK	15AC	ᑭ	CANADIAN SYLLABICS TH-CREE THA
		• Algonquian	15AD	ᑭ	CANADIAN SYLLABICS TH-CREE THAA
157E	ᑭ	CANADIAN SYLLABICS QAAI	15AE	ᑭ	CANADIAN SYLLABICS TH-CREE TH
		• Inuktitut	15AF	ᑭ	CANADIAN SYLLABICS AVILIK B
157F	ᑭ	CANADIAN SYLLABICS QI	15B0	ᑭ	CANADIAN SYLLABICS BLACKFOOT E
1580	ᑭ	CANADIAN SYLLABICS QII	15B1	ᑭ	CANADIAN SYLLABICS BLACKFOOT I
1581	ᑭ	CANADIAN SYLLABICS QO	15B2	ᑭ	CANADIAN SYLLABICS BLACKFOOT O
		• Inuktitut (QU)	15B3	ᑭ	CANADIAN SYLLABICS BLACKFOOT A
1582	ᑭ	CANADIAN SYLLABICS QOO	15B4	ᑭ	CANADIAN SYLLABICS BLACKFOOT WE
		• Inuktitut (QUU)	15B5	ᑭ	CANADIAN SYLLABICS BLACKFOOT WI
1583	ᑭ	CANADIAN SYLLABICS QA	15B6	ᑭ	CANADIAN SYLLABICS BLACKFOOT WO
1584	ᑭ	CANADIAN SYLLABICS QAA	15B7	ᑭ	CANADIAN SYLLABICS BLACKFOOT WA
1585	ᑭ	CANADIAN SYLLABICS Q	15B8	ᑭ	CANADIAN SYLLABICS BLACKFOOT NE
1586	ᑭ	CANADIAN SYLLABICS TLHE	15B9	ᑭ	CANADIAN SYLLABICS BLACKFOOT NI
		• Sayisi (KLE)	15BA	ᑭ	CANADIAN SYLLABICS BLACKFOOT NO
1587	ᑭ	CANADIAN SYLLABICS TLHI	15BB	ᑭ	CANADIAN SYLLABICS BLACKFOOT NA
		• Sayisi (KLI)	15BC	ᑭ	CANADIAN SYLLABICS BLACKFOOT KE
1588	ᑭ	CANADIAN SYLLABICS TLHO	15BD	ᑭ	CANADIAN SYLLABICS BLACKFOOT KI
		• Sayisi (KLU)	15BE	ᑭ	CANADIAN SYLLABICS BLACKFOOT KO
1589	ᑭ	CANADIAN SYLLABICS TLHA	15BF	ᑭ	CANADIAN SYLLABICS BLACKFOOT KA
		• Sayisi (KLA)	15C0	ᑭ	CANADIAN SYLLABICS SAYISI HE
158A	ᑭ	CANADIAN SYLLABICS WEST-CREE RE	15C1	ᑭ	CANADIAN SYLLABICS SAYISI HI
158B	ᑭ	CANADIAN SYLLABICS WEST-CREE RI	15C2	ᑭ	CANADIAN SYLLABICS SAYISI HO
158C	ᑭ	CANADIAN SYLLABICS WEST-CREE RO			• Sayisi (HU)
158D	ᑭ	CANADIAN SYLLABICS WEST-CREE RA	15C3	ᑭ	CANADIAN SYLLABICS SAYISI HA
158E	ᑭ	CANADIAN SYLLABICS NGAAI	15C4	ᑭ	CANADIAN SYLLABICS CARRIER GHU
		• Inuktitut	15C5	ᑭ	CANADIAN SYLLABICS CARRIER GHO
158F	ᑭ	CANADIAN SYLLABICS NGI	15C6	ᑭ	CANADIAN SYLLABICS CARRIER GHE
1590	ᑭ	CANADIAN SYLLABICS NGII	15C7	ᑭ	CANADIAN SYLLABICS CARRIER GHEE
1591	ᑭ	CANADIAN SYLLABICS NGO	15C8	ᑭ	CANADIAN SYLLABICS CARRIER GHI
		• Inuktitut (NGU)	15C9	ᑭ	CANADIAN SYLLABICS CARRIER GHA
1592	ᑭ	CANADIAN SYLLABICS NGOO	15CA	ᑭ	CANADIAN SYLLABICS CARRIER RU
		• Inuktitut (NGUU)	15CB	ᑭ	CANADIAN SYLLABICS CARRIER RO
1593	ᑭ	CANADIAN SYLLABICS NGA	15CC	ᑭ	CANADIAN SYLLABICS CARRIER RE
1594	ᑭ	CANADIAN SYLLABICS NGAA	15CD	ᑭ	CANADIAN SYLLABICS CARRIER REE
1595	ᑭ	CANADIAN SYLLABICS NG	15CE	ᑭ	CANADIAN SYLLABICS CARRIER RI
1596	ᑭ	CANADIAN SYLLABICS NNG	15CF	ᑭ	CANADIAN SYLLABICS CARRIER RA
1597	ᑭ	CANADIAN SYLLABICS SAYISI SHE	15D0	ᑭ	CANADIAN SYLLABICS CARRIER WU
1598	ᑭ	CANADIAN SYLLABICS SAYISI SHI	15D1	ᑭ	CANADIAN SYLLABICS CARRIER WO
1599	ᑭ	CANADIAN SYLLABICS SAYISI SHO	15D2	ᑭ	CANADIAN SYLLABICS CARRIER WE
		• Sayisi (SHU)	15D3	ᑭ	CANADIAN SYLLABICS CARRIER WEE
159A	ᑭ	CANADIAN SYLLABICS SAYISI SHA	15D4	ᑭ	CANADIAN SYLLABICS CARRIER WI
159B	ᑭ	CANADIAN SYLLABICS WOODS-CREE THE	15D5	ᑭ	CANADIAN SYLLABICS CARRIER WA
159C	ᑭ	CANADIAN SYLLABICS WOODS-CREE THI	15D6	ᑭ	CANADIAN SYLLABICS CARRIER HWU
159D	ᑭ	CANADIAN SYLLABICS WOODS-CREE THO	15D7	ᑭ	CANADIAN SYLLABICS CARRIER HWO
159E	ᑭ	CANADIAN SYLLABICS WOODS-CREE THA	15D8	ᑭ	CANADIAN SYLLABICS CARRIER HWE
159F	ᑭ	CANADIAN SYLLABICS WOODS-CREE TH	15D9	ᑭ	CANADIAN SYLLABICS CARRIER HWEE
15A0	ᑭ	CANADIAN SYLLABICS LHI	15DA	ᑭ	CANADIAN SYLLABICS CARRIER HWI
15A1	ᑭ	CANADIAN SYLLABICS LHII	15DB	ᑭ	CANADIAN SYLLABICS CARRIER HWA
15A2	ᑭ	CANADIAN SYLLABICS LHO	15DC	ᑭ	CANADIAN SYLLABICS CARRIER THU
		• Inuktitut (LHU)	15DD	ᑭ	CANADIAN SYLLABICS CARRIER THO
15A3	ᑭ	CANADIAN SYLLABICS LHOO	15DE	ᑭ	CANADIAN SYLLABICS CARRIER THE
		• Inuktitut (LHUU)	15DF	ᑭ	CANADIAN SYLLABICS CARRIER THEE
15A4	ᑭ	CANADIAN SYLLABICS LHA	15E0	ᑭ	CANADIAN SYLLABICS CARRIER THI
15A5	ᑭ	CANADIAN SYLLABICS LHAA	15E1	ᑭ	CANADIAN SYLLABICS CARRIER THA
15A6	ᑭ	CANADIAN SYLLABICS LH	15E2	ᑭ	CANADIAN SYLLABICS CARRIER TTU
15A7	ᑭ	CANADIAN SYLLABICS TH-CREE THE	15E3	ᑭ	CANADIAN SYLLABICS CARRIER TTO

15E4	ᑕ	CANADIAN SYLLABICS CARRIER TTE	161B	ᑕᑕ	CANADIAN SYLLABICS CARRIER JA • Athapascan (ZI), Sayisi (TZI), South Slavey (DHI)
15E5	ᑖ	CANADIAN SYLLABICS CARRIER TTEE	161C	ᑕᑕ	CANADIAN SYLLABICS CARRIER JJU
15E6	ᑗ	CANADIAN SYLLABICS CARRIER TTI	161D	ᑕᑕ	CANADIAN SYLLABICS CARRIER JJO
15E7	ᑘ	CANADIAN SYLLABICS CARRIER TTA	161E	ᑕᑕ	CANADIAN SYLLABICS CARRIER JJE
15E8	ᑙ	CANADIAN SYLLABICS CARRIER PU	161F	ᑕᑕ	CANADIAN SYLLABICS CARRIER JEE
15E9	ᑚ	CANADIAN SYLLABICS CARRIER PO	1620	ᑕᑕ	CANADIAN SYLLABICS CARRIER JJI
15EA	ᑛ	CANADIAN SYLLABICS CARRIER PE	1621	ᑕᑕ	CANADIAN SYLLABICS CARRIER JJA
15EB	ᑜ	CANADIAN SYLLABICS CARRIER PEE	1622	ᑕᑕ	CANADIAN SYLLABICS CARRIER LU
15EC	ᑝ	CANADIAN SYLLABICS CARRIER PI	1623	ᑕᑕ	CANADIAN SYLLABICS CARRIER LO
15ED	ᑞ	CANADIAN SYLLABICS CARRIER PA	1624	ᑕᑕ	CANADIAN SYLLABICS CARRIER LE
15EE	ᑟ	CANADIAN SYLLABICS CARRIER P	1625	ᑕᑕ	CANADIAN SYLLABICS CARRIER LEE
15EF	ᑠ	CANADIAN SYLLABICS CARRIER GU	1626	ᑕᑕ	CANADIAN SYLLABICS CARRIER LI
15F0	ᑡ	CANADIAN SYLLABICS CARRIER GO	1627	ᑕᑕ	CANADIAN SYLLABICS CARRIER LA
15F1	ᑢ	CANADIAN SYLLABICS CARRIER GE	1628	ᑕᑕ	CANADIAN SYLLABICS CARRIER DLU
15F2	ᑣ	CANADIAN SYLLABICS CARRIER GEE	1629	ᑕᑕ	CANADIAN SYLLABICS CARRIER DLO
15F3	ᑤ	CANADIAN SYLLABICS CARRIER GI	162A	ᑕᑕ	CANADIAN SYLLABICS CARRIER DLE
15F4	ᑥ	CANADIAN SYLLABICS CARRIER GA	162B	ᑕᑕ	CANADIAN SYLLABICS CARRIER DLEE
15F5	ᑦ	CANADIAN SYLLABICS CARRIER KHU	162C	ᑕᑕ	CANADIAN SYLLABICS CARRIER DLI
15F6	ᑧ	CANADIAN SYLLABICS CARRIER KHO	162D	ᑕᑕ	CANADIAN SYLLABICS CARRIER DLA
15F7	ᑨ	CANADIAN SYLLABICS CARRIER KHE	162E	ᑕᑕ	CANADIAN SYLLABICS CARRIER LHU
15F8	ᑩ	CANADIAN SYLLABICS CARRIER KHEE	162F	ᑕᑕ	CANADIAN SYLLABICS CARRIER LHO
15F9	ᑪ	CANADIAN SYLLABICS CARRIER KHI	1630	ᑕᑕ	CANADIAN SYLLABICS CARRIER LHE
15FA	ᑫ	CANADIAN SYLLABICS CARRIER KHA	1631	ᑕᑕ	CANADIAN SYLLABICS CARRIER LHEE
15FB	ᑬ	CANADIAN SYLLABICS CARRIER KKU	1632	ᑕᑕ	CANADIAN SYLLABICS CARRIER LHI
15FC	ᑭ	CANADIAN SYLLABICS CARRIER KKO	1633	ᑕᑕ	CANADIAN SYLLABICS CARRIER LHA
15FD	ᑬ	CANADIAN SYLLABICS CARRIER KKE	1634	ᑕᑕ	CANADIAN SYLLABICS CARRIER TLHU
15FE	ᑭ	CANADIAN SYLLABICS CARRIER KKEE	1635	ᑕᑕ	CANADIAN SYLLABICS CARRIER TLHO
15FF	ᑭ	CANADIAN SYLLABICS CARRIER KKI	1636	ᑕᑕ	CANADIAN SYLLABICS CARRIER TLHE
1600	ᑭ	CANADIAN SYLLABICS CARRIER KKA	1637	ᑕᑕ	CANADIAN SYLLABICS CARRIER TLHEE
1601	ᑭ	CANADIAN SYLLABICS CARRIER KK	1638	ᑕᑕ	CANADIAN SYLLABICS CARRIER TLHI
1602	ᑭ	CANADIAN SYLLABICS CARRIER NU	1639	ᑕᑕ	CANADIAN SYLLABICS CARRIER TLHA
1603	ᑭ	CANADIAN SYLLABICS CARRIER NO	163A	ᑕᑕ	CANADIAN SYLLABICS CARRIER TLU
1604	ᑭ	CANADIAN SYLLABICS CARRIER NE	163B	ᑕᑕ	CANADIAN SYLLABICS CARRIER TLO
1605	ᑭ	CANADIAN SYLLABICS CARRIER NEE	163C	ᑕᑕ	CANADIAN SYLLABICS CARRIER TLE
1606	ᑭ	CANADIAN SYLLABICS CARRIER NI	163D	ᑕᑕ	CANADIAN SYLLABICS CARRIER TLEE
1607	ᑭ	CANADIAN SYLLABICS CARRIER NA	163E	ᑕᑕ	CANADIAN SYLLABICS CARRIER TLI
1608	ᑭ	CANADIAN SYLLABICS CARRIER MU	163F	ᑕᑕ	CANADIAN SYLLABICS CARRIER TLA
1609	ᑭ	CANADIAN SYLLABICS CARRIER MO	1640	ᑕᑕ	CANADIAN SYLLABICS CARRIER ZU
160A	ᑭ	CANADIAN SYLLABICS CARRIER ME	1641	ᑕᑕ	CANADIAN SYLLABICS CARRIER ZO
160B	ᑭ	CANADIAN SYLLABICS CARRIER MEE	1642	ᑕᑕ	CANADIAN SYLLABICS CARRIER ZE
160C	ᑭ	CANADIAN SYLLABICS CARRIER MI	1643	ᑕᑕ	CANADIAN SYLLABICS CARRIER ZEE
160D	ᑭ	CANADIAN SYLLABICS CARRIER MA	1644	ᑕᑕ	CANADIAN SYLLABICS CARRIER ZI
160E	ᑭ	CANADIAN SYLLABICS CARRIER YU	1645	ᑕᑕ	CANADIAN SYLLABICS CARRIER ZA
160F	ᑭ	CANADIAN SYLLABICS CARRIER YO	1646	ᑕᑕ	CANADIAN SYLLABICS CARRIER Z
1610	ᑭ	CANADIAN SYLLABICS CARRIER YE	1647	ᑕᑕ	CANADIAN SYLLABICS CARRIER INITIAL Z
1611	ᑭ	CANADIAN SYLLABICS CARRIER YEE	1648	ᑕᑕ	CANADIAN SYLLABICS CARRIER DZU
1612	ᑭ	CANADIAN SYLLABICS CARRIER YI	1649	ᑕᑕ	CANADIAN SYLLABICS CARRIER DZO
1613	ᑭ	CANADIAN SYLLABICS CARRIER YA	164A	ᑕᑕ	CANADIAN SYLLABICS CARRIER DZE
1614	ᑭ	CANADIAN SYLLABICS CARRIER JU • Athapascan (ZA), Sayisi (TZO), South Slavey (DHA)	164B	ᑕᑕ	CANADIAN SYLLABICS CARRIER DZEE
1615	ᑭ	CANADIAN SYLLABICS SAYISI JU • Athapascan (ZO), Sayisi (TZU), South Slavey (DHO)	164C	ᑕᑕ	CANADIAN SYLLABICS CARRIER DZI
1616	ᑭ	CANADIAN SYLLABICS CARRIER JO	164D	ᑕᑕ	CANADIAN SYLLABICS CARRIER DZA
1617	ᑭ	CANADIAN SYLLABICS CARRIER JE	164E	ᑕᑕ	CANADIAN SYLLABICS CARRIER SU
1618	ᑭ	CANADIAN SYLLABICS CARRIER JEE	164F	ᑕᑕ	CANADIAN SYLLABICS CARRIER SO
1619	ᑭ	CANADIAN SYLLABICS CARRIER JI	1650	ᑕᑕ	CANADIAN SYLLABICS CARRIER SE
161A	ᑭ	CANADIAN SYLLABICS SAYISI JI • Athapascan (ZE), Sayisi (TZE), South Slavey (DHE)	1651	ᑕᑕ	CANADIAN SYLLABICS CARRIER SEE
			1652	ᑕᑕ	CANADIAN SYLLABICS CARRIER SI
			1653	ᑕᑕ	CANADIAN SYLLABICS CARRIER SA
			1654	ᑕᑕ	CANADIAN SYLLABICS CARRIER SHU
			1655	ᑕᑕ	CANADIAN SYLLABICS CARRIER SHO
			1656	ᑕᑕ	CANADIAN SYLLABICS CARRIER SHE

1657	ᑭ	CANADIAN SYLLABICS CARRIER SHEE
1658	ᑭ	CANADIAN SYLLABICS CARRIER SHI
1659	ᑭ	CANADIAN SYLLABICS CARRIER SHA
165A	ᑭ	CANADIAN SYLLABICS CARRIER SH
165B	ᑭ	CANADIAN SYLLABICS CARRIER TSU
165C	ᑭ	CANADIAN SYLLABICS CARRIER TSO
165D	ᑭ	CANADIAN SYLLABICS CARRIER TSE
165E	ᑭ	CANADIAN SYLLABICS CARRIER TSEE
165F	ᑭ	CANADIAN SYLLABICS CARRIER TSI
1660	ᑭ	CANADIAN SYLLABICS CARRIER TSA
1661	ᑭ	CANADIAN SYLLABICS CARRIER CHU
1662	ᑭ	CANADIAN SYLLABICS CARRIER CHO
1663	ᑭ	CANADIAN SYLLABICS CARRIER CHE
1664	ᑭ	CANADIAN SYLLABICS CARRIER CHEE
1665	ᑭ	CANADIAN SYLLABICS CARRIER CHI
1666	ᑭ	CANADIAN SYLLABICS CARRIER CHA
1667	ᑭ	CANADIAN SYLLABICS CARRIER TTU
1668	ᑭ	CANADIAN SYLLABICS CARRIER TTUO
1669	ᑭ	CANADIAN SYLLABICS CARRIER TTSE
166A	ᑭ	CANADIAN SYLLABICS CARRIER TTSEE
166B	ᑭ	CANADIAN SYLLABICS CARRIER TTU
166C	ᑭ	CANADIAN SYLLABICS CARRIER TTUO

**Symbol**

































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

**Punctuation**

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

166F	ᑭ	CANADIAN SYLLABICS QAI
1670	ᑭ	CANADIAN SYLLABICS NGAI
1671	ᑭ	CANADIAN SYLLABICS NNGI
1672	ᑭ	CANADIAN SYLLABICS NNGII
1673	ᑭ	CANADIAN SYLLABICS NNGO
		• Inuktitut (NNGU)
1674	ᑭ	CANADIAN SYLLABICS NNGOO
		• Inuktitut (NNGUU)
1675	ᑭ	CANADIAN SYLLABICS NNGA
1676	ᑭ	CANADIAN SYLLABICS NNGAA
1677	ᑭ	CANADIAN SYLLABICS WOODS-CREE THWEE
1678	ᑭ	CANADIAN SYLLABICS WOODS-CREE THWI
1679	ᑭ	CANADIAN SYLLABICS WOODS-CREE THWII
167A	ᑭ	CANADIAN SYLLABICS WOODS-CREE THWO
167B	ᑭ	CANADIAN SYLLABICS WOODS-CREE THWOO
167C	ᑭ	CANADIAN SYLLABICS WOODS-CREE THWA
167D	ᑭ	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	



**Letters**

16A0	ƿ	RUNIC LETTER FEHU FEOH FE F
16A1	ƿ	RUNIC LETTER V
16A2	ᚢ	RUNIC LETTER URUZ UR U
16A3	ᚦ	RUNIC LETTER YR
16A4	ᚨ	RUNIC LETTER Y
16A5	ᚱ	RUNIC LETTER W
16A6	ᚦ	RUNIC LETTER THURISAZ THURS THORN → 00FE ƿ latin small letter thorn
16A7	ᚦ	RUNIC LETTER ETH
16A8	ᚦ	RUNIC LETTER ANSUZ A
16A9	ᚦ	RUNIC LETTER OS O
16AA	ᚦ	RUNIC LETTER AC A
16AB	ᚦ	RUNIC LETTER AESC
16AC	ᚦ	RUNIC LETTER LONG-BRANCH-OSS O
16AD	ᚦ	RUNIC LETTER SHORT-TWIG-OSS O
16AE	ᚦ	RUNIC LETTER O
16AF	ᚦ	RUNIC LETTER OE
16B0	ᚦ	RUNIC LETTER ON
16B1	ᚦ	RUNIC LETTER RAIDO RAD REID R
16B2	ᚦ	RUNIC LETTER KAUNA
16B3	ᚦ	RUNIC LETTER CEN
16B4	ᚦ	RUNIC LETTER KAUN K
16B5	ᚦ	RUNIC LETTER G
16B6	ᚦ	RUNIC LETTER ENG
16B7	ᚦ	RUNIC LETTER GEBO GYFU G
16B8	ᚦ	RUNIC LETTER GAR
16B9	ᚦ	RUNIC LETTER WUNJO WYNN W → 01BF ƿ latin letter wynn
16BA	ᚦ	RUNIC LETTER HAGLAZ H
16BB	ᚦ	RUNIC LETTER HAEG L
16BC	ᚦ	RUNIC LETTER LONG-BRANCH-HAGALL H
16BD	ᚦ	RUNIC LETTER SHORT-TWIG-HAGALL H
16BE	ᚦ	RUNIC LETTER NAUDIZ NYD NAUD N
16BF	ᚦ	RUNIC LETTER SHORT-TWIG-NAUD N
16C0	ᚦ	RUNIC LETTER DOTTED-N
16C1	ᚦ	RUNIC LETTER ISAZ IS ISS I
16C2	ᚦ	RUNIC LETTER E
16C3	ᚦ	RUNIC LETTER JERAN J
16C4	ᚦ	RUNIC LETTER GER
16C5	ᚦ	RUNIC LETTER LONG-BRANCH-AR AE
16C6	ᚦ	RUNIC LETTER SHORT-TWIG-AR A
16C7	ᚦ	RUNIC LETTER IWAZ EOH
16C8	ᚦ	RUNIC LETTER PERTHO PEORTH P
16C9	ᚦ	RUNIC LETTER ALGIZ EOLHX
16CA	ᚦ	RUNIC LETTER SOWILO S
16CB	ᚦ	RUNIC LETTER SIGEL LONG-BRANCH-SOL S
16CC	ᚦ	RUNIC LETTER SHORT-TWIG-SOL S
16CD	ᚦ	RUNIC LETTER C
16CE	ᚦ	RUNIC LETTER Z
16CF	ᚦ	RUNIC LETTER TIWAZ TIR TYR T
16D0	ᚦ	RUNIC LETTER SHORT-TWIG-TYR T
16D1	ᚦ	RUNIC LETTER D
16D2	ᚦ	RUNIC LETTER BERKANAN BEORC BJARKAN B
16D3	ᚦ	RUNIC LETTER SHORT-TWIG-BJARKAN B
16D4	ᚦ	RUNIC LETTER DOTTED-P
16D5	ᚦ	RUNIC LETTER OPEN-P
16D6	ᚦ	RUNIC LETTER EHWAZ EH E
16D7	ᚦ	RUNIC LETTER MANNAZ MAN M
16D8	ᚦ	RUNIC LETTER LONG-BRANCH-MADR M
16D9	ᚦ	RUNIC LETTER SHORT-TWIG-MADR M





















16DA	ᚦ	RUNIC LETTER LAUKAZ LAGU LOGR L
16DB	ᚦ	RUNIC LETTER DOTTED-L
16DC	ᚦ	RUNIC LETTER INGWAZ
16DD	ᚦ	RUNIC LETTER ING
16DE	ᚦ	RUNIC LETTER DAGAZ DAEG D
16DF	ᚦ	RUNIC LETTER OTHALAN ETHEL O
16E0	ᚦ	RUNIC LETTER EAR
16E1	ᚦ	RUNIC LETTER IOR
16E2	ᚦ	RUNIC LETTER CWEORTH
16E3	ᚦ	RUNIC LETTER CALC
16E4	ᚦ	RUNIC LETTER CEALC
16E5	ᚦ	RUNIC LETTER STAN
16E6	ᚦ	RUNIC LETTER LONG-BRANCH-YR
16E7	ᚦ	RUNIC LETTER SHORT-TWIG-YR
16E8	ᚦ	RUNIC LETTER ICELANDIC-YR
16E9	ᚦ	RUNIC LETTER Q
16EA	ᚦ	RUNIC LETTER X



**Punctuation**
























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

**Golden number runes**




16EE	ᚦ	RUNIC ARLAUG SYMBOL • golden number 17
16EF	ᚦ	RUNIC TVIMADUR SYMBOL • golden number 18
16F0	ᚦ	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 A1701  TAGALOG LETTER I1702  TAGALOG LETTER U**Consonants**1703  TAGALOG LETTER KA1704  TAGALOG LETTER GA1705  TAGALOG LETTER NGA1706  TAGALOG LETTER TA1707  TAGALOG LETTER DA1708  TAGALOG LETTER NA1709  TAGALOG LETTER PA170A  TAGALOG LETTER BA170B  TAGALOG LETTER MA170C  TAGALOG LETTER YA170D  <reserved>170E  TAGALOG LETTER LA170F  TAGALOG LETTER WA1710  TAGALOG LETTER SA1711  TAGALOG LETTER HA**Dependent vowel signs**1712  TAGALOG VOWEL SIGN I1713  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 NG  
 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 I devanagari danda  
 1736  PHILIPPINE DOUBLE PUNCTUATION  
 → 0965 II 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 NA  
 1769  TAGBANWA LETTER PA  
 176A  TAGBANWA LETTER BA  
 176B  TAGBANWA LETTER MA  
 176C  TAGBANWA LETTER YA  
 176D  <reserved>  
 176E  TAGBANWA LETTER LA  
 176F  TAGBANWA LETTER WA  
 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	ញ 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	ឱ 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	ឱ 17A8	័ 17B8	័ 17C8	័ 17D8	័ 17E8	័ 17F8
9	ញ 1789	យ 1799	ឱ 17A9	័ 17B9	័ 17C9	័ 17D9	័ 17E9	័ 17F9
A	ដ 178A	រ 179A	ឱ 17AA	័ 17BA	័ 17CA	័ 17DA		
B	ប័ 178B	ល 179B	ប្រ 17AB	័ 17BB	័ 17CB	័ 17DB		
C	ខ 178C	រ 179C	ប្រ 17AC	័ 17BC	័ 17CC	័ 17DC		
D	ឆ 178D	គ 179D	ព 17AD	័ 17BD	័ 17CD	័ 17DD		
E	ណ 178E	ថ 179E	ញ 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	ប	KHMER LETTER TTHA
178C	ឧ	KHMER LETTER DO
178D	ផ	KHMER LETTER TTHO
178E	ណ	KHMER LETTER NNO

- as this character belongs to the first register, its correct transliteration is nna, not nno

178F	ត	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	ឝ	KHMER LETTER SHA

- used only for Pali/Sanskrit transliteration
- 179E ឞ 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	ស	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	អ៊	KHMER INDEPENDENT VOWEL QAQ
• use of this character is strongly discouraged; 17A2 អ should be used instead		
17A4	អា	KHMER INDEPENDENT VOWEL QAA
• use of this character is strongly discouraged; the sequence 17A2 អ 17B6 ា should be used instead		

**Independent vowels**

17A5	ត្ថ	KHMER INDEPENDENT VOWEL QI
17A6	ត្ថ្ថ	KHMER INDEPENDENT VOWEL QII
17A7	ឌ	KHMER INDEPENDENT VOWEL QU
17A8	ឌ្ឌ	KHMER INDEPENDENT VOWEL QUK
• obsolete ligature for the sequence 17A7 ឌ 1780 ក		
• use of the sequence is now preferred		

17A9	ឡ	KHMER INDEPENDENT VOWEL QUU
17AA	ឡ្ហ	KHMER INDEPENDENT VOWEL QUUV
17AB	រ្យ	KHMER INDEPENDENT VOWEL RY
17AC	រ្យ្ថ	KHMER INDEPENDENT VOWEL RYY
17AD	ល្យ	KHMER INDEPENDENT VOWEL LY
17AE	ល្យ្ថ	KHMER INDEPENDENT VOWEL LYY
17AF	ឡ	KHMER INDEPENDENT VOWEL QE
17B0	ត្ថ	KHMER INDEPENDENT VOWEL QAI
17B1	ត្ថ្ថ	KHMER INDEPENDENT VOWEL QOO TYPE ONE
17B2	ត្ថ	KHMER INDEPENDENT VOWEL QOO TYPE TWO
• this is a variant for 17B1 ត្ថ្ថ, used in only two words		
• 17B1 ត្ថ្ថ is the normal variant of this vowel		
17B3	ត្ថ	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		KHMER VOWEL INHERENT AQ
17B5		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		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		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 ๐ thai character nikhahit		
→ 1036 ၀ 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 ROBAT  
• 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 kuuu  
→ 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 DIGIT FIVE
- 17E6 ័ KHMER DIGIT SIX
- 17E7 ័ KHMER DIGIT SEVEN
- 17E8 ័ KHMER DIGIT EIGHT
- 17E9 ័ KHMER DIGIT NINE

**Numeric symbols for divination lore**

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

- 17F0 ័ KHMER SYMBOL LEK ATTAK SON
- 17F1 ័ KHMER SYMBOL LEK ATTAK MUOY
- 17F2 ័ KHMER SYMBOL LEK ATTAK PII
- 17F3 ័ KHMER SYMBOL LEK ATTAK BEI
- 17F4 ័ KHMER SYMBOL LEK ATTAK BUON
- 17F5 ័ KHMER SYMBOL LEK ATTAK PRAM
- 17F6 ័ KHMER SYMBOL LEK ATTAK PRAM-MUOY
- 17F7 ័ KHMER SYMBOL LEK ATTAK PRAM-PII
- 17F8 ័ KHMER SYMBOL LEK ATTAK PRAM-BEI
- 17F9 ័ 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	



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	ᠤ	MONGOLIAN LETTER TODO YA
1856	ᠥ	MONGOLIAN LETTER TODO WA
1857	ᠦ	MONGOLIAN LETTER TODO KA
1858	ᠦ	MONGOLIAN LETTER TODO GAA
1859	ᠨ	MONGOLIAN LETTER TODO HAA
185A	ᠪ	MONGOLIAN LETTER TODO JIA
185B	ᠨ	MONGOLIAN LETTER TODO NIA
185C	ᠳ	MONGOLIAN LETTER TODO DZA

**Sibe letters**

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

















































































**Manchu letters**

1873	ᠠ	MONGOLIAN LETTER MANCHU I
1874	ᠡ	MONGOLIAN LETTER MANCHU KA
1875	ᠢ	MONGOLIAN LETTER MANCHU RA
1876	ᠣ	MONGOLIAN LETTER MANCHU FA
1877	ᠤ	MONGOLIAN LETTER MANCHU ZHA



































































**Extensions for Sanskrit and Tibetan**

1880	ᠠ	MONGOLIAN LETTER ALI GALI ANUSVARA ONE → 0F83 ᠠ tibetan sign sna ldan
1881	ᠡ	MONGOLIAN LETTER ALI GALI VISARGA ONE → 0F7F ᠡ tibetan sign rnam bcad
1882	ᠢ	MONGOLIAN LETTER ALI GALI DAMARU → 0F88 ᠢ tibetan sign lce tsa can
1883	ᠣ	MONGOLIAN LETTER ALI GALI UBADAMA
1884	ᠤ	MONGOLIAN LETTER ALI GALI INVERTED UBADAMA → 0F89 ᠤ tibetan sign mchu can
1885	ᠥ	MONGOLIAN LETTER ALI GALI BALUDA → 0F85 ᠥ tibetan mark paluta
1886	ᠦ	MONGOLIAN LETTER ALI GALI THREE BALUDA
1887	ᠨ	MONGOLIAN LETTER ALI GALI A
1888	ᠨ	MONGOLIAN LETTER ALI GALI I
1889	ᠨ	MONGOLIAN LETTER ALI GALI KA
188A	ᠨ	MONGOLIAN LETTER ALI GALI NGA
188B	ᠨ	MONGOLIAN LETTER ALI GALI CA

188C	ᠨ	MONGOLIAN LETTER ALI GALI TTA
188D	ᠨ	MONGOLIAN LETTER ALI GALI TTHA
188E	ᠨ	MONGOLIAN LETTER ALI GALI DDA
188F	ᠨ	MONGOLIAN LETTER ALI GALI NNA
1890	ᠨ	MONGOLIAN LETTER ALI GALI TA
1891	ᠨ	MONGOLIAN LETTER ALI GALI DA
1892	ᠨ	MONGOLIAN LETTER ALI GALI PA
1893	ᠨ	MONGOLIAN LETTER ALI GALI PHA
1894	ᠨ	MONGOLIAN LETTER ALI GALI SSA
1895	ᠨ	MONGOLIAN LETTER ALI GALI ZHA
1896	ᠨ	MONGOLIAN LETTER ALI GALI ZA
1897	ᠨ	MONGOLIAN LETTER ALI GALI AH
1898	ᠨ	MONGOLIAN LETTER TODO ALI GALI TA
1899	ᠨ	MONGOLIAN LETTER TODO ALI GALI ZHA
189A	ᠨ	MONGOLIAN LETTER MANCHU ALI GALI GHA
189B	ᠨ	MONGOLIAN LETTER MANCHU ALI GALI NGA
189C	ᠨ	MONGOLIAN LETTER MANCHU ALI GALI CA
189D	ᠨ	MONGOLIAN LETTER MANCHU ALI GALI JHA
189E	ᠨ	MONGOLIAN LETTER MANCHU ALI GALI TTA
189F	ᠨ	MONGOLIAN LETTER MANCHU ALI GALI DDHA
18A0	ᠨ	MONGOLIAN LETTER MANCHU ALI GALI TA
18A1	ᠨ	MONGOLIAN LETTER MANCHU ALI GALI DHA
18A2	ᠨ	MONGOLIAN LETTER MANCHU ALI GALI SSA
18A3	ᠨ	MONGOLIAN LETTER MANCHU ALI GALI CYA
18A4	ᠨ	MONGOLIAN LETTER MANCHU ALI GALI ZHA
18A5	ᠨ	MONGOLIAN LETTER MANCHU ALI GALI ZA
18A6	ᠨ	MONGOLIAN LETTER ALI GALI HALF U
18A7	ᠨ	MONGOLIAN LETTER ALI GALI HALF YA
18A8	ᠨ	MONGOLIAN LETTER MANCHU ALI GALI BHA
18A9	ᠨ	MONGOLIAN LETTER ALI GALI DAGALGA
18AA	ᠨ	MONGOLIAN LETTER MANCHU ALI GALI LHA

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



	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	ᱠ	LIMBU VOWEL-CARRIER LETTER
1901	ᱡ	LIMBU LETTER KA
1902	ᱢ	LIMBU LETTER KHA
1903	ᱣ	LIMBU LETTER GA
1904	ᱤ	LIMBU LETTER GHA
1905	ᱥ	LIMBU LETTER NGA
1906	ᱦ	LIMBU LETTER CA
1907	ᱧ	LIMBU LETTER CHA
1908	ᱨ	LIMBU LETTER JA
1909	ᱩ	LIMBU LETTER JHA
190A	ᱪ	LIMBU LETTER YAN
190B	ᱫ	LIMBU LETTER TA
190C	ᱬ	LIMBU LETTER THA
190D	ᱭ	LIMBU LETTER DA
190E	ᱮ	LIMBU LETTER DHA
190F	ᱯ	LIMBU LETTER NA
1910	ᱰ	LIMBU LETTER PA
1911	ᱱ	LIMBU LETTER PHA
1912	ᱲ	LIMBU LETTER BA
1913	ᱳ	LIMBU LETTER BHA
1914	ᱴ	LIMBU LETTER MA
1915	ᱵ	LIMBU LETTER YA
1916	ᱶ	LIMBU LETTER RA
1917	ᱷ	LIMBU LETTER LA
1918	ᱸ	LIMBU LETTER WA
1919	ᱹ	LIMBU LETTER SHA
191A	ᱺ	LIMBU LETTER SSA
191B	ᱻ	LIMBU LETTER SA
191C	ᱼ	LIMBU LETTER HA

**Dependent vowel signs**

1920	ᱠᱟ	LIMBU VOWEL SIGN A
1921	ᱡᱟ	LIMBU VOWEL SIGN I
1922	ᱢᱟ	LIMBU VOWEL SIGN U
1923	ᱣᱟ	LIMBU VOWEL SIGN EE
1924	ᱤᱟ	LIMBU VOWEL SIGN AI
1925	ᱥᱟ	LIMBU VOWEL SIGN OO
1926	ᱦᱟ	LIMBU VOWEL SIGN AU
1927	ᱧᱟ	LIMBU VOWEL SIGN E
1928	ᱨᱟ	LIMBU VOWEL SIGN O

**Subjoined consonants**

1929	ᱠᱵ	LIMBU SUBJOINED LETTER YA
192A	ᱡᱵ	LIMBU SUBJOINED LETTER RA
192B	ᱢᱵ	LIMBU SUBJOINED LETTER WA

**Final consonants**

1930	ᱠᱵᱟ	LIMBU SMALL LETTER KA
1931	ᱡᱵᱟ	LIMBU SMALL LETTER NGA
1932	ᱢᱵᱟ	LIMBU SMALL LETTER ANUSVARA
1933	ᱣᱵᱟ	LIMBU SMALL LETTER TA
1934	ᱤᱵᱟ	LIMBU SMALL LETTER NA
1935	ᱦᱵᱟ	LIMBU SMALL LETTER PA
1936	ᱧᱵᱟ	LIMBU SMALL LETTER MA
1937	ᱨᱵᱟ	LIMBU SMALL LETTER RA
1938	ᱩᱵᱟ	LIMBU SMALL LETTER LA

**Various signs**

1939	ᱠᱵᱟᱫᱷᱟ	LIMBU SIGN MUKPHRENG
193A	ᱡᱵᱟᱫᱷᱟ	LIMBU SIGN KEMPHRENG
193B	ᱢᱵᱟᱫᱷᱟ	LIMBU SIGN SA-I
193C	ᱣᱵᱟᱫᱷᱟ	<reserved>

193D	ᱤᱵᱟᱫᱷᱟ	<reserved>
193E	ᱦᱵᱟᱫᱷᱟ	<reserved>
193F	ᱧᱵᱟᱫᱷᱟ	<reserved>
1940	ᱨᱵᱟᱫᱷᱟ	LIMBU SIGN LOO
1941	ᱩᱵᱟᱫᱷᱟ	<reserved>
1942	ᱪᱵᱟᱫᱷᱟ	<reserved>
1943	ᱫᱵᱟᱫᱷᱟ	<reserved>
1944	ᱬᱵᱟᱫᱷᱟ	LIMBU EXCLAMATION MARK
1945	ᱭᱵᱟᱫᱷᱟ	LIMBU QUESTION MARK

**Digits**

1946	ᱠ	LIMBU DIGIT ZERO
1947	ᱡ	LIMBU DIGIT ONE
1948	ᱢ	LIMBU DIGIT TWO
1949	ᱣ	LIMBU DIGIT THREE
194A	ᱤ	LIMBU DIGIT FOUR
194B	ᱥ	LIMBU DIGIT FIVE
194C	ᱦ	LIMBU DIGIT SIX
194D	ᱧ	LIMBU DIGIT SEVEN
194E	ᱨ	LIMBU DIGIT EIGHT
194F	ᱩ	LIMBU DIGIT NINE

	195	196	197
0	၁ 1950	ခ 1960	ဂ 1970
1	င 1951	ဃ 1961	ဇ 1971
2	က 1952	စ 1962	င 1972
3	ဉ 1953	ါ 1963	ဗ 1973
4	ဃ 1954	ဃ 1964	င 1974
5	မ 1955	ဂ 1965	
6	တ 1956	ါ 1966	
7	ဆ 1957	ါ 1967	
8	၂ 1958	ါ 1968	
9	ဃ 1959	ါ 1969	
A	မ 195A	ါ 196A	
B	ဃ 195B	ါ 196B	
C	မ 195C	ါ 196C	
D	င 195D	ဃ 196D	
E	တ 195E		
F	ဂ 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	က	TAI LE LETTER NGA
1953	ဉ	TAI LE LETTER TSA
1954	ဃ	TAI LE LETTER SA
1955	မ	TAI LE LETTER YA
1956	တ	TAI LE LETTER TA
1957	ဆ	TAI LE LETTER THA
1958	၂	TAI LE LETTER LA
1959	ဃ	TAI LE LETTER PA
195A	မ	TAI LE LETTER PHA
195B	ဃ	TAI LE LETTER MA
195C	မ	TAI LE LETTER FA
195D	င	TAI LE LETTER VA
195E	တ	TAI LE LETTER HA
195F	ဂ	TAI LE LETTER QA
1960	ခ	TAI LE LETTER KHA
1961	ဃ	TAI LE LETTER TSHA
1962	က	TAI LE LETTER NA

#### Vowels

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

#### Tone letters

1970	ဂ	TAI LE LETTER TONE-2
1971	ဇ	TAI LE LETTER TONE-3
1972	င	TAI LE LETTER TONE-4
1973	ဗ	TAI LE LETTER TONE-5
1974	င	TAI LE LETTER TONE-6



	198	199	19A	19B	19C	19D
0	၌ 1980	၌ 1990	၌ 19A0	၌ 19B0	၌ 19C0	၌ 19D0
1	၌ 1981	၌ 1991	၌ 19A1	၌ 19B1	၌ 19C1	၌ 19D1
2	၌ 1982	၌ 1992	၌ 19A2	၌ 19B2	၌ 19C2	၌ 19D2
3	၌ 1983	၌ 1993	၌ 19A3	၌ 19B3	၌ 19C3	၌ 19D3
4	၌ 1984	၌ 1994	၌ 19A4	၌ 19B4	၌ 19C4	၌ 19D4
5	၌ 1985	၌ 1995	၌ 19A5	၌ 19B5	၌ 19C5	၌ 19D5
6	၌ 1986	၌ 1996	၌ 19A6	၌ 19B6	၌ 19C6	၌ 19D6
7	၌ 1987	၌ 1997	၌ 19A7	၌ 19B7	၌ 19C7	၌ 19D7
8	၌ 1988	၌ 1998	၌ 19A8	၌ 19B8	၌ 19C8	၌ 19D8
9	၌ 1989	၌ 1999	၌ 19A9	၌ 19B9	၌ 19C9	၌ 19D9
A	၌ 198A	၌ 199A	၌ 19AA	၌ 19BA		၌ 19DA
B	၌ 198B	၌ 199B	၌ 19AB	၌ 19BB		
C	၌ 198C	၌ 199C		၌ 19BC		
D	၌ 198D	၌ 199D		၌ 19BD		
E	၌ 198E	၌ 199E		၌ 19BE		၌ 19DE
F	၌ 198F	၌ 199F		၌ 19BF		၌ 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	៩ 19F2
3	៣ 19E3	៩ 19F3
4	៤ 19E4	៩ 19F4
5	៥ 19E5	៩ 19F5
6	៦ 19E6	៦ 19F6
7	៧ 19E7	៧ 19F7
8	៨ 19E8	៨ 19F8
9	៩ 19E9	៩ 19F9
A	១០ 19EA	៩ 19FA
B	១១ 19EB	៩ 19FB
C	១២ 19EC	៩ 19FC
D	១៣ 19ED	៩ 19FD
E	១៤ 19EE	៩ 19FE
F	១៥ 19EF	៩ 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 ៩ KHMER SYMBOL MUOY KOET  
 19E2 ២ ៩ KHMER SYMBOL PII KOET  
 19E3 ៣ ៩ KHMER SYMBOL BEI KOET  
 19E4 ៤ ៩ KHMER SYMBOL BUON KOET  
 19E5 ៥ ៩ KHMER SYMBOL PRAM KOET  
 19E6 ៦ ៩ KHMER SYMBOL PRAM-MUOY KOET  
 19E7 ៧ ៩ KHMER SYMBOL PRAM-PII KOET  
 19E8 ៨ ៩ KHMER SYMBOL PRAM-BEI KOET  
 19E9 ៩ ៩ KHMER SYMBOL PRAM-BUON KOET  
 19EA ១០ ៩ KHMER SYMBOL DAP KOET  
 19EB ១១ ៩ KHMER SYMBOL DAP-MUOY KOET  
 19EC ១២ ៩ KHMER SYMBOL DAP-PII KOET  
 19ED ១៣ ៩ KHMER SYMBOL DAP-BEI KOET  
 19EE ១៤ ៩ KHMER SYMBOL DAP-BUON KOET  
 19EF ១៥ ៩ 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 ៩ ៩ KHMER SYMBOL MUOY ROC  
 19F2 ៩ ៩ KHMER SYMBOL PII ROC  
 19F3 ៩ ៩ KHMER SYMBOL BEI ROC  
 19F4 ៩ ៩ KHMER SYMBOL BUON ROC  
 19F5 ៩ ៩ KHMER SYMBOL PRAM ROC  
 19F6 ៩ ៩ KHMER SYMBOL PRAM-MUOY ROC  
 19F7 ៩ ៩ KHMER SYMBOL PRAM-PII ROC  
 19F8 ៩ ៩ KHMER SYMBOL PRAM-BEI ROC  
 19F9 ៩ ៩ KHMER SYMBOL PRAM-BUON ROC  
 19FA ១០ ៩ KHMER SYMBOL DAP ROC  
 19FB ១១ ៩ KHMER SYMBOL DAP-MUOY ROC  
 19FC ១២ ៩ KHMER SYMBOL DAP-PII ROC  
 19FD ១៣ ៩ KHMER SYMBOL DAP-BEI ROC  
 19FE ១៤ ៩ KHMER SYMBOL DAP-BUON ROC  
 19FF ១៥ ៩ KHMER SYMBOL DAP-PRAM ROC






	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

*This script is also known as Lontara.*

#### Consonants

1A00		BUGINESE LETTER KA
1A01		BUGINESE LETTER GA
1A02		BUGINESE LETTER NGKA
1A03		BUGINESE LETTER PA
1A04		BUGINESE LETTER BA
1A05		BUGINESE LETTER MA
1A06		BUGINESE LETTER MPA
1A07		BUGINESE LETTER TA
1A08		BUGINESE LETTER DA
1A09		BUGINESE LETTER NA
1A0A		BUGINESE LETTER NRA
1A0B		BUGINESE LETTER CA
1A0C		BUGINESE LETTER JA
1A0D		BUGINESE LETTER NYA
1A0E		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	က 1A20	ဆ 1A30	၂ 1A40	၆ 1A50	၇ 1A60	၈ 1A70	၉ 1A80	၀ 1A90	၀ 1AA0
1	ခ 1A21	ဏ 1A31	၈ 1A41	၉ 1A51	၁ 1A61	၂ 1A71	၃ 1A81	၄ 1A91	၅ 1AA1
2	၆ 1A22	တ 1A32	၉ 1A42	၁ 1A52	၂ 1A62	၃ 1A72	၄ 1A82	၅ 1A92	၆ 1AA2
3	၇ 1A23	ဆ 1A33	၈ 1A43	၉ 1A53	၁ 1A63	၂ 1A73	၃ 1A83	၄ 1A93	၅ 1AA3
4	၆ 1A24	ဇ 1A34	၉ 1A44	၁ 1A54	၂ 1A64	၃ 1A74	၄ 1A84	၅ 1A94	၆ 1AA4
5	ဆ 1A25	၇ 1A35	၈ 1A45	၉ 1A55	၁ 1A65	၂ 1A75	၃ 1A85	၄ 1A95	၅ 1AA5
6	ခ 1A26	၇ 1A36	၈ 1A46	၉ 1A56	၁ 1A66	၂ 1A76	၃ 1A86	၄ 1A96	၅ 1AA6
7	၇ 1A27	၈ 1A37	၉ 1A47	၁ 1A57	၂ 1A67	၃ 1A77	၄ 1A87	၅ 1A97	၆ 1AA7
8	၈ 1A28	၉ 1A38	၁ 1A48	၂ 1A58	၃ 1A68	၄ 1A78	၅ 1A88	၆ 1A98	၇ 1AA8
9	၉ 1A29	၁ 1A39	၂ 1A49	၃ 1A59	၄ 1A69	၅ 1A79	၆ 1A89	၇ 1A99	၈ 1AA9
A	၆ 1A2A	၇ 1A3A	၈ 1A4A	၉ 1A5A	၁ 1A6A	၂ 1A7A			၃ 1AAA
B	၇ 1A2B	၈ 1A3B	၉ 1A4B	၁ 1A5B	၂ 1A6B	၃ 1A7B			၄ 1AAB
C	၈ 1A2C	၉ 1A3C	၁ 1A4C	၂ 1A5C	၃ 1A6C	၄ 1A7C			၅ 1AAC
D	၉ 1A2D	၁ 1A3D	၂ 1A4D	၃ 1A5D	၄ 1A6D				၆ 1AAD
E	၁ 1A2E	၂ 1A3E	၃ 1A4E	၄ 1A5E	၅ 1A6E				
F	၂ 1A2F	၃ 1A3F	၄ 1A4F		၅ 1A6F	၆ 1A7F			

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	ᦅ	TAI THAM LETTER HIGH KA
1A21	ᦅᦺ	TAI THAM LETTER HIGH KHA
1A22	ᦅᦻ	TAI THAM LETTER HIGH KXA
1A23	ᦅᦴ	TAI THAM LETTER LOW KA
1A24	ᦅᦵ	TAI THAM LETTER LOW KXA
1A25	ᦅᦶ	TAI THAM LETTER LOW KHA
1A26	ᦅᦷ	TAI THAM LETTER NGA
1A27	ᦅᦸ	TAI THAM LETTER HIGH CA
1A28	ᦅᦹ	TAI THAM LETTER HIGH CHA
1A29	ᦅᦺ	TAI THAM LETTER LOW CA
1A2A	ᦅᦻ	TAI THAM LETTER LOW SA
1A2B	ᦅᦼ	TAI THAM LETTER LOW CHA
1A2C	ᦅᦽ	TAI THAM LETTER NYA
1A2D	ᦅᦾ	TAI THAM LETTER RATA
1A2E	ᦅᦿ	TAI THAM LETTER HIGH RATHA
1A2F	ᦅᦺ	TAI THAM LETTER DA
1A30	ᦅᦻ	TAI THAM LETTER LOW RATHA
1A31	ᦅᦼ	TAI THAM LETTER RANA
1A32	ᦅᦽ	TAI THAM LETTER HIGH TA
1A33	ᦅᦾ	TAI THAM LETTER HIGH THA
1A34	ᦅᦿ	TAI THAM LETTER LOW TA
1A35	ᦅᦺ	TAI THAM LETTER LOW THA
1A36	ᦅᦻ	TAI THAM LETTER NA
1A37	ᦅᦼ	TAI THAM LETTER BA
1A38	ᦅᦽ	TAI THAM LETTER HIGH PA
1A39	ᦅᦾ	TAI THAM LETTER HIGH PHA
1A3A	ᦅᦿ	TAI THAM LETTER HIGH FA
1A3B	ᦅᦺ	TAI THAM LETTER LOW PA
1A3C	ᦅᦻ	TAI THAM LETTER LOW FA
1A3D	ᦅᦼ	TAI THAM LETTER LOW PHA
1A3E	ᦅᦽ	TAI THAM LETTER MA
1A3F	ᦅᦾ	TAI THAM LETTER LOW YA
1A40	ᦅᦿ	TAI THAM LETTER HIGH YA
1A41	ᦅᦺ	TAI THAM LETTER RA
1A42	ᦅᦻ	TAI THAM LETTER RUE
1A43	ᦅᦼ	TAI THAM LETTER LA
1A44	ᦅᦽ	TAI THAM LETTER LUE
1A45	ᦅᦾ	TAI THAM LETTER WA
1A46	ᦅᦿ	TAI THAM LETTER HIGH SHA
1A47	ᦅᦺ	TAI THAM LETTER HIGH SSA
1A48	ᦅᦻ	TAI THAM LETTER HIGH SA
1A49	ᦅᦼ	TAI THAM LETTER HIGH HA
1A4A	ᦅᦽ	TAI THAM LETTER LLA
1A4B	ᦅᦾ	TAI THAM LETTER A
		• indicates a glottal consonant
1A4C	ᦅᦿ	TAI THAM LETTER LOW HA

**Independent vowels**

1A4D	ᦅᦺ	TAI THAM LETTER I
1A4E	ᦅᦻ	TAI THAM LETTER II
1A4F	ᦅᦼ	TAI THAM LETTER U
1A50	ᦅᦽ	TAI THAM LETTER UU
1A51	ᦅᦾ	TAI THAM LETTER EE
1A52	ᦅᦿ	TAI THAM LETTER OO

**Consonants**

1A53	ᦅᦺ	TAI THAM LETTER LAE
------	----	---------------------

1A54	ᦅᦺ	TAI THAM LETTER GREAT SA
1A55	ᦅᦻ	TAI THAM CONSONANT SIGN MEDIAL RA
1A56	ᦅᦼ	TAI THAM CONSONANT SIGN MEDIAL LA
1A57	ᦅᦽ	TAI THAM CONSONANT SIGN LA TANG LAI
1A58	ᦅᦾ	TAI THAM SIGN MAI KANG LAI
1A59	ᦅᦿ	TAI THAM CONSONANT SIGN FINAL NG
1A5A	ᦅᦺ	TAI THAM CONSONANT SIGN LOW PA
1A5B	ᦅᦻ	TAI THAM CONSONANT SIGN HIGH RATHA OR LOW PA
1A5C	ᦅᦼ	TAI THAM CONSONANT SIGN MA
1A5D	ᦅᦽ	TAI THAM CONSONANT SIGN BA
1A5E	ᦅᦾ	TAI THAM CONSONANT SIGN SA

**Sign**

1A60	ᦅᦺ	TAI THAM SIGN SAKOT
------	----	---------------------

**Dependent vowel signs**

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

**Tone marks and other marks**





































































































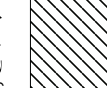







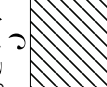







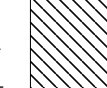







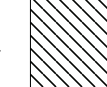



1A75	ᦅᦺ	TAI THAM SIGN TONE-1
1A76	ᦅᦻ	TAI THAM SIGN TONE-2
1A77	ᦅᦼ	TAI THAM SIGN KHUEN TONE-3
1A78	ᦅᦽ	TAI THAM SIGN KHUEN TONE-4
1A79	ᦅᦾ	TAI THAM SIGN KHUEN TONE-5
1A7A	ᦅᦿ	TAI THAM SIGN RA HAAM
1A7B	ᦅᦺ	TAI THAM SIGN MAI SAM
1A7C	ᦅᦻ	TAI THAM SIGN KHUEN-LUE KARAN
1A7D	ᦅᦼ	<reserved>
1A7E	ᦅᦽ	<reserved>
1A7F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

**Hora digits**

1A80	ᦅᦺ	TAI THAM HORA DIGIT ZERO
1A81	ᦅᦻ	TAI THAM HORA DIGIT ONE
1A82	ᦅᦼ	TAI THAM HORA DIGIT TWO
1A83	ᦅᦽ	TAI THAM HORA DIGIT THREE
1A84	ᦅᦾ	TAI THAM HORA DIGIT FOUR
1A85	ᦅᦿ	TAI THAM HORA DIGIT FIVE
1A86	ᦅᦺ	TAI THAM HORA DIGIT SIX
1A87	ᦅᦻ	TAI THAM HORA DIGIT SEVEN
1A88	ᦅᦼ	TAI THAM HORA DIGIT EIGHT
1A89	ᦅᦽ	TAI THAM HORA DIGIT NINE

**Tham digits**

1A90	◦	TAI THAM THAM DIGIT ZERO
1A91	◡	TAI THAM THAM DIGIT ONE
1A92	┐	TAI THAM THAM DIGIT TWO
1A93	◡	TAI THAM THAM DIGIT THREE
1A94	◡	TAI THAM THAM DIGIT FOUR
1A95	◡	TAI THAM THAM DIGIT FIVE
1A96	┐	TAI THAM THAM DIGIT SIX
1A97	◡	TAI THAM THAM DIGIT SEVEN
1A98	◡	TAI THAM THAM DIGIT EIGHT
1A99	◡	TAI THAM THAM DIGIT NINE
1A9A	◡	<reserved>
1A9B	◡	<reserved>
1A9C	◡	<reserved>
1A9D	◡	<reserved>
1A9E	◡	<reserved>
1A9F	◡	<reserved>
1AA0	⊕	TAI THAM SIGN WIANG
1AA1	⊕	TAI THAM SIGN WIANGWAAK
1AA2	◡	TAI THAM SIGN SAWAN
1AA3	◡	TAI THAM SIGN KEOW
1AA4	◡	TAI THAM SIGN HOY
1AA5	◡	TAI THAM SIGN DOKMAI
1AA6	◡	TAI THAM SIGN REVERSED ROTATED RANA
1AA7	◡	TAI THAM SIGN MAI YAMOK
1AA8	◡	TAI THAM SIGN KAAK
1AA9	◡	TAI THAM SIGN KAANKUU
1AAA	◡	TAI THAM SIGN SATKAAN
1AAB	◡	TAI THAM SIGN SATKAANKUU
1AAC	◡	TAI THAM SIGN HANG
1AAD	◡	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	ᮘ	BALINESE SIGN ULU RICEM = ardhacandra
1B01	ᮙ	BALINESE SIGN ULU CANDRA = candrabindu
1B02	ᮚ	BALINESE SIGN CECEK = anusvara
1B03	ᮛ	BALINESE SIGN SURANG = repha
1B04	ᮜ	BALINESE SIGN BISAH = visarga

**Independent vowels**

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

**Consonants**

1B13	᮫	BALINESE LETTER KA
1B14	ᮬ	BALINESE LETTER KA MAHAPRANA = kha
1B15	ᮭ	BALINESE LETTER GA
1B16	ᮮ	BALINESE LETTER GA GORA = gha
1B17	ᮯ	BALINESE LETTER NGA
1B18	᮰	BALINESE LETTER CA
1B19	᮱	BALINESE LETTER CA LACA = cha
1B1A	᮲	BALINESE LETTER JA
1B1B	᮳	BALINESE LETTER JA JERA = jha
1B1C	᮴	BALINESE LETTER NYA
1B1D	᮵	BALINESE LETTER TA LATIK = tta

1B1E	᮶	BALINESE LETTER TA MURDA MAHAPRANA = ttha
1B1F	᮷	BALINESE LETTER DA MURDA ALPAPRANA = dda
1B20	᮸	BALINESE LETTER DA MURDA MAHAPRANA = ddha
1B21	᮹	BALINESE LETTER NA RAMBAT = nna
1B22	ᮺ	BALINESE LETTER TA
1B23	ᮻ	BALINESE LETTER TA TAWA = tha
1B24	ᮼ	BALINESE LETTER DA
1B25	ᮽ	BALINESE LETTER DA MADU = dha
1B26	ᮾ	BALINESE LETTER NA
1B27	ᮿ	BALINESE LETTER PA
1B28	ᯀ	BALINESE LETTER PA KAPAL = pha
1B29	ᯁ	BALINESE LETTER BA
1B2A	ᯂ	BALINESE LETTER BA KEMBANG = bha
1B2B	ᯃ	BALINESE LETTER MA
1B2C	ᯄ	BALINESE LETTER YA
1B2D	ᯅ	BALINESE LETTER RA
1B2E	ᯆ	BALINESE LETTER LA
1B2F	ᯇ	BALINESE LETTER WA
1B30	ᯈ	BALINESE LETTER SA SAGA = sha
1B31	ᯉ	BALINESE LETTER SA SAPA = ssa
1B32	ᯊ	BALINESE LETTER SA
1B33	ᯋ	BALINESE LETTER HA

**Sign**

1B34	ᯌ	BALINESE SIGN REREKAN = nukta
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**Dependent vowel signs**

1B35	ᯍ	BALINESE VOWEL SIGN TEDUNG = aa
1B36	ᯎ	BALINESE VOWEL SIGN ULU = i
1B37	ᯏ	BALINESE VOWEL SIGN ULU SARI = ii
1B38	ᯐ	BALINESE VOWEL SIGN SUKU = u
1B39	ᯑ	BALINESE VOWEL SIGN SUKU ILUT = uu
1B3A	ᯒ	BALINESE VOWEL SIGN RA REPA = vocalic r
1B3B	ᯓ	BALINESE VOWEL SIGN RA REPA TEDUNG = vocalic rr ≡ 1B3A ᯒ 1B35 ᯍ
1B3C	ᯔ	BALINESE VOWEL SIGN LA LENG = vocalic l
1B3D	ᯕ	BALINESE VOWEL SIGN LA LENG TEDUNG = vocalic ll ≡ 1B3C ᯔ 1B35 ᯍ
1B3E	ᯖ	BALINESE VOWEL SIGN TALING = e
1B3F	ᯗ	BALINESE VOWEL SIGN TALING REPA = ai
1B40	ᯘ	BALINESE VOWEL SIGN TALING TEDUNG = o ≡ 1B3E ᯖ 1B35 ᯍ

- 1B41 ꦲꦺ BALINESE VOWEL SIGN TALING REPA TEDUNG  
= au  
≡ 1B3F ꦲꦺ 1B35 ꦺꦴ
- 1B42 ꦺꦴ BALINESE VOWEL SIGN PEPET  
= ae
- 1B43 ꦺꦴꦠ BALINESE VOWEL SIGN PEPET TEDUNG  
= oe  
≡ 1B42 ꦺꦴ 1B35 ꦺꦴ

**Sign**

- 1B44 ꦲꦺꦴ BALINESE ADEG ADEG  
= virama

**Additional consonants**

- 1B45 ꦲꦺꦴ BALINESE LETTER KAF SASAK
- 1B46 ꦲꦺꦴ BALINESE LETTER KHOT SASAK
- 1B47 ꦲꦺꦴ BALINESE LETTER TZIR SASAK
- 1B48 ꦲꦺꦴ BALINESE LETTER EF SASAK
- 1B49 ꦲꦺꦴ BALINESE LETTER VE SASAK
- 1B4A ꦲꦺꦴ BALINESE LETTER ZAL SASAK
- 1B4B ꦲꦺꦴ BALINESE LETTER ASYURA SASAK

**Digits**

- 1B50 ꦲꦺꦴ BALINESE DIGIT ZERO
- 1B51 ꦲꦺꦴ BALINESE DIGIT ONE
- 1B52 ꦲꦺꦴ BALINESE DIGIT TWO
- 1B53 ꦲꦺꦴ BALINESE DIGIT THREE
- 1B54 ꦲꦺꦴ BALINESE DIGIT FOUR
- 1B55 ꦲꦺꦴ BALINESE DIGIT FIVE
- 1B56 ꦲꦺꦴ BALINESE DIGIT SIX
- 1B57 ꦲꦺꦴ BALINESE DIGIT SEVEN
- 1B58 ꦲꦺꦴ BALINESE DIGIT EIGHT
- 1B59 ꦲꦺꦴ BALINESE DIGIT NINE

**Punctuation**

- 1B5A ꦲꦺꦴ BALINESE PANTI  
= section
- 1B5B ꦲꦺꦴ BALINESE PAMADA  
= honorific section
- 1B5C ꦲꦺꦴ BALINESE WINDU  
= punctuation ring
- 1B5D ꦲꦺꦴ BALINESE CARIK PAMUNGKAH  
= colon
- 1B5E ꦲꦺꦴ BALINESE CARIK SIKI  
= danda  
→ 0964 I devanagari danda
- 1B5F ꦲꦺꦴ BALINESE CARIK PAREREN  
= double danda  
→ 0965 II devanagari double danda
- 1B60 ꦲꦺꦴ BALINESE PAMENENG  
= line-breaking hyphen

**Musical symbols for notes**
























































- 1B61 ꦲꦺꦴ BALINESE MUSICAL SYMBOL DONG
- 1B62 ꦲꦺꦴ BALINESE MUSICAL SYMBOL DENG
- 1B63 ꦲꦺꦴ BALINESE MUSICAL SYMBOL DUNG
- 1B64 ꦲꦺꦴ BALINESE MUSICAL SYMBOL DANG
- 1B65 ꦲꦺꦴ BALINESE MUSICAL SYMBOL DANG SURANG
- 1B66 ꦲꦺꦴ BALINESE MUSICAL SYMBOL DING
- 1B67 ꦲꦺꦴ BALINESE MUSICAL SYMBOL DAENG
- 1B68 ꦲꦺꦴ BALINESE MUSICAL SYMBOL DEUNG
- 1B69 ꦲꦺꦴ BALINESE MUSICAL SYMBOL DAING
- 1B6A ꦲꦺꦴ BALINESE MUSICAL SYMBOL DANG GEDE

**Diacritical marks for musical symbols**

































































- 1B6B ꦲꦺꦴ BALINESE MUSICAL SYMBOL COMBINING  
TEGEH
- 1B6C ꦲꦺꦴ BALINESE MUSICAL SYMBOL COMBINING  
ENDEP
- 1B6D ꦲꦺꦴ BALINESE MUSICAL SYMBOL COMBINING  
KEMPUL
- 1B6E ꦲꦺꦴ BALINESE MUSICAL SYMBOL COMBINING  
KEMPLI
- 1B6F ꦲꦺꦴ BALINESE MUSICAL SYMBOL COMBINING  
JEGOGAN
- 1B70 ꦲꦺꦴ BALINESE MUSICAL SYMBOL COMBINING  
KEMPUL WITH JEGOGAN
- 1B71 ꦲꦺꦴ BALINESE MUSICAL SYMBOL COMBINING  
KEMPLI WITH JEGOGAN
- 1B72 ꦲꦺꦴ BALINESE MUSICAL SYMBOL COMBINING  
BENDE
- 1B73 ꦲꦺꦴ BALINESE MUSICAL SYMBOL COMBINING  
GONG

**Musical symbols**

- 1B74 ꦲꦺꦴ BALINESE MUSICAL SYMBOL RIGHT-HAND  
OPEN DUG
- 1B75 ꦲꦺꦴ BALINESE MUSICAL SYMBOL RIGHT-HAND  
OPEN DAG
- 1B76 ꦲꦺꦴ BALINESE MUSICAL SYMBOL RIGHT-HAND  
CLOSED TUK
- 1B77 ꦲꦺꦴ BALINESE MUSICAL SYMBOL RIGHT-HAND  
CLOSED TAK
- 1B78 ꦲꦺꦴ BALINESE MUSICAL SYMBOL LEFT-HAND OPEN  
PANG
- 1B79 ꦲꦺꦴ BALINESE MUSICAL SYMBOL LEFT-HAND OPEN  
PUNG
- 1B7A ꦲꦺꦴ BALINESE MUSICAL SYMBOL LEFT-HAND  
CLOSED PLAK
- 1B7B ꦲꦺꦴ BALINESE MUSICAL SYMBOL LEFT-HAND  
CLOSED PLUK
- 1B7C ꦲꦺꦴ 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	 1BA A	
B	 1B8B	 1B9B		
C	 1B8C	 1B9C		
D	 1B8D	 1B9D		
E	 1B8E	 1B9E	 1BAE	
F	 1B8F	 1B9F	 1BAF	

1BB0	0	SUNDANESE DIGIT ZERO
1BB1	ᮊ	SUNDANESE DIGIT ONE
1BB2	ᮋ	SUNDANESE DIGIT TWO
1BB3	ᮌ	SUNDANESE DIGIT THREE
1BB4	ᮍ	SUNDANESE DIGIT FOUR
1BB5	ᮎ	SUNDANESE DIGIT FIVE
1BB6	ᮏ	SUNDANESE DIGIT SIX
1BB7	ᮐ	SUNDANESE DIGIT SEVEN
1BB8	ᮑ	SUNDANESE DIGIT EIGHT
1BB9	ᮒ	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	 1BFA
B	 1BCB	 1BDB	 1BEB	 1BFB
C	 1BCC	 1BDC	 1BEC	 1BFC
D	 1BCD	 1BDD	 1BED	 1BFD
E	 1BCE	 1BDE	 1BEE	 1BFE
F	 1BCF	 1BDF	 1BEF	 1BFF

**Letters**

1BC0	ᐃ	BATAK LETTER A
1BC1	ᐃᐃ	BATAK LETTER SIMALUNGUN A
1BC2	ᐃᐃ	BATAK LETTER HA
1BC3	ᐃᐃᐃ	BATAK LETTER SIMALUNGUN HA
1BC4	ᐃᐃᐃ	BATAK LETTER MANDAILING HA
1BC5	ᐃᐃ	BATAK LETTER BA
1BC6	ᐃᐃ	BATAK LETTER KARO BA
1BC7	ᐃᐃ	BATAK LETTER PA
1BC8	ᐃᐃ	BATAK LETTER SIMALUNGUN PA
1BC9	ᐃᐃ	BATAK LETTER NA
1BCA	ᐃᐃᐃ	BATAK LETTER MANDAILING NA
1BCB	ᐃᐃ	BATAK LETTER WA
1BCC	ᐃᐃᐃ	BATAK LETTER SIMALUNGUN WA
1BCD	ᐃᐃᐃ	BATAK LETTER PAKPAK WA
1BCE	ᐃᐃᐃ	BATAK LETTER GA
1BCF	ᐃᐃᐃ	BATAK LETTER SIMALUNGUN GA
1BD0	ᐃᐃᐃ	BATAK LETTER JA
1BD1	ᐃᐃᐃ	BATAK LETTER DA
1BD2	ᐃᐃᐃ	BATAK LETTER RA
1BD3	ᐃᐃᐃ	BATAK LETTER SIMALUNGUN RA
1BD4	ᐃᐃᐃ	BATAK LETTER MA
1BD5	ᐃᐃᐃ	BATAK LETTER SIMALUNGUN MA
1BD6	ᐃᐃᐃ	BATAK LETTER SOUTHERN TA
1BD7	ᐃᐃᐃ	BATAK LETTER NORTHERN TA
1BD8	ᐃᐃᐃ	BATAK LETTER SA
1BD9	ᐃᐃᐃ	BATAK LETTER SIMALUNGUN SA
1BDA	ᐃᐃᐃ	BATAK LETTER MANDAILING SA
1BDB	ᐃᐃᐃ	BATAK LETTER YA
1BDC	ᐃᐃᐃ	BATAK LETTER SIMALUNGUN YA
1BDD	ᐃᐃᐃ	BATAK LETTER NGA
1BDE	ᐃᐃᐃ	BATAK LETTER LA
1BDF	ᐃᐃᐃ	BATAK LETTER SIMALUNGUN LA
1BE0	ᐃᐃᐃ	BATAK LETTER NYA
1BE1	ᐃᐃᐃ	BATAK LETTER CA
1BE2	ᐃᐃᐃ	BATAK LETTER NDA
1BE3	ᐃᐃᐃ	BATAK LETTER MBA
1BE4	ᐃᐃᐃ	BATAK LETTER I
1BE5	ᐃᐃᐃ	BATAK LETTER U

**Sign**

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

1BE7	ᐃᐃᐃ	BATAK VOWEL SIGN E = kebereten
1BE8	ᐃᐃᐃ	BATAK VOWEL SIGN PAKPAK E = ketolongen
1BE9	ᐃᐃᐃ	BATAK VOWEL SIGN EE = talinga
1BEA	ᐃᐃᐃ	BATAK VOWEL SIGN I = ulua
1BEB	ᐃᐃᐃ	BATAK VOWEL SIGN KARO I = haluan
1BEC	ᐃᐃᐃ	BATAK VOWEL SIGN O = siala ulu
1BED	ᐃᐃᐃ	BATAK VOWEL SIGN KARO O = hatulungan
1BEE	ᐃᐃᐃ	BATAK VOWEL SIGN U = boruta
1BEF	ᐃᐃᐃ	BATAK VOWEL SIGN U FOR SIMALUNGUN SA = haboritan for simalungun sa

**Dependent consonant signs**

















































































1BF0	ᐃᐃᐃ	BATAK CONSONANT SIGN NG = amisara
1BF1	ᐃᐃᐃ	BATAK CONSONANT SIGN H = hajoringan

**Signs**

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

**Symbols**

1BFA	ᐃᐃᐃ	BATAK SYMBOL BINDU GODANG
1BFB	ᐃᐃᐃ	BATAK SYMBOL BINDU PINARJOLMA
1BFC	ᐃᐃᐃ	BATAK SYMBOL BINDU NA METEK
1BFD	ᐃᐃᐃ	BATAK SYMBOL BINDU PINARBORAS
1BFE	ᐃᐃᐃ	BATAK SYMBOL BINDU JUDUL
1BFF	ᐃᐃᐃ	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

**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	ᱠᱡ	LEPCHA SUBJOINED LETTER YA
1C25	ᱡᱢ	LEPCHA SUBJOINED LETTER RA

**Dependent vowels**

1C26	ᱠᱢ	LEPCHA VOWEL SIGN AA
1C27	ᱡᱢ	LEPCHA VOWEL SIGN I
1C28	ᱢᱢ	LEPCHA VOWEL SIGN O
1C29	ᱣᱢ	LEPCHA VOWEL SIGN OO
1C2A	ᱤᱢ	LEPCHA VOWEL SIGN U
1C2B	ᱥᱢ	LEPCHA VOWEL SIGN UU
1C2C	ᱦᱢ	LEPCHA VOWEL SIGN E

**Consonant signs**

1C2D	ᱠᱢᱢ	LEPCHA CONSONANT SIGN K
1C2E	ᱡᱢᱢ	LEPCHA CONSONANT SIGN M
1C2F	ᱢᱢᱢ	LEPCHA CONSONANT SIGN L
1C30	ᱣᱢᱢ	LEPCHA CONSONANT SIGN N
1C31	ᱤᱢᱢ	LEPCHA CONSONANT SIGN P
1C32	ᱥᱢᱢ	LEPCHA CONSONANT SIGN R
1C33	ᱦᱢᱢ	LEPCHA CONSONANT SIGN T
1C34	ᱧᱢᱢ	LEPCHA CONSONANT SIGN NYIN-DO
1C35	ᱨᱢᱢ	LEPCHA CONSONANT SIGN KANG

**Various signs**

1C36	ᱠᱢᱢᱢ	LEPCHA SIGN RAN
1C37	ᱡᱢᱢᱢ	LEPCHA SIGN NUKTA

**Punctuation**

1C3B	ᱠᱢᱢᱢᱢ	LEPCHA PUNCTUATION TA-ROL
1C3C	ᱡᱢᱢᱢᱢ	LEPCHA PUNCTUATION NYET THYOOM TA-ROL
1C3D	ᱢᱢᱢᱢ	LEPCHA PUNCTUATION CER-WA
1C3E	ᱣᱢᱢᱢ	LEPCHA PUNCTUATION TSHOOK CER-WA
1C3F	ᱤᱢᱢᱢ	LEPCHA PUNCTUATION TSHOOK

**Digits**

1C40	ᱠᱢᱢᱢᱢᱢ	LEPCHA DIGIT ZERO
1C41	ᱡᱢᱢᱢᱢᱢ	LEPCHA DIGIT ONE
1C42	ᱢᱢᱢᱢᱢᱢ	LEPCHA DIGIT TWO
1C43	ᱣᱢᱢᱢᱢᱢ	LEPCHA DIGIT THREE
1C44	ᱤᱢᱢᱢᱢᱢ	LEPCHA DIGIT FOUR
1C45	ᱥᱢᱢᱢᱢᱢ	LEPCHA DIGIT FIVE
1C46	ᱦᱢᱢᱢᱢᱢ	LEPCHA DIGIT SIX
1C47	ᱧᱢᱢᱢᱢᱢ	LEPCHA DIGIT SEVEN
1C48	ᱨᱢᱢᱢᱢᱢ	LEPCHA DIGIT EIGHT
1C49	ᱩᱢᱢᱢᱢᱢ	LEPCHA DIGIT NINE

**Additional letters**

1C4D	ᱠᱢᱢᱢᱢᱢᱢ	LEPCHA LETTER TTA
1C4E	ᱡᱢᱢᱢᱢᱢᱢ	LEPCHA LETTER TTHA
1C4F	ᱢᱢᱢᱢᱢᱢᱢ	LEPCHA LETTER DDA



	1C5	1C6	1C7
0	0 1C50	ᵇ 1C60	ᵐ 1C70
1	ᵇ 1C51	ᵇ 1C61	ᵇ 1C71
2	ᵇ 1C52	ᵇ 1C62	ᵇ 1C72
3	ᵇ 1C53	ᵇ 1C63	ᵇ 1C73
4	ᵇ 1C54	ᵇ 1C64	ᵇ 1C74
5	ᵇ 1C55	ᵇ 1C65	ᵇ 1C75
6	ᵇ 1C56	ᵇ 1C66	ᵇ 1C76
7	ᵇ 1C57	ᵇ 1C67	ᵇ 1C77
8	ᵇ 1C58	ᵇ 1C68	ᵇ 1C78
9	ᵇ 1C59	ᵇ 1C69	ᵇ 1C79
A	ᵇ 1C5A	ᵇ 1C6A	ᵇ 1C7A
B	ᵇ 1C5B	ᵇ 1C6B	ᵇ 1C7B
C	ᵇ 1C5C	ᵇ 1C6C	ᵇ 1C7C
D	ᵇ 1C5D	ᵇ 1C6D	ᵇ 1C7D
E	ᵇ 1C5E	ᵇ 1C6E	ᵇ 1C7E
F	ᵇ 1C5F	ᵇ 1C6F	ᵇ 1C7F

**Digits**

1C50	0	OL CHIKI DIGIT ZERO
1C51	ᵇ	OL CHIKI DIGIT ONE
1C52	ᵇ	OL CHIKI DIGIT TWO
1C53	ᵇ	OL CHIKI DIGIT THREE
1C54	ᵇ	OL CHIKI DIGIT FOUR
1C55	ᵇ	OL CHIKI DIGIT FIVE
1C56	ᵇ	OL CHIKI DIGIT SIX
1C57	ᵇ	OL CHIKI DIGIT SEVEN
1C58	ᵇ	OL CHIKI DIGIT EIGHT
1C59	ᵇ	OL CHIKI DIGIT NINE

**Letters**




































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

**Modifier letters**


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

**Punctuation**

1C7E	ᵇ	OL CHIKI PUNCTUATION MUCAAD
1C7F	ᵇ	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 jihvaamuuliiya upadhmaaniya  
→ 0CF1  kannada sign jihvamuliya  
→ 0CF2  kannada sign upadhmaniya

	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	ᠢ 1D12	ᠣ 1D22	ᠢ 1D32	ᠣ 1D42	ᠣ 1D52	ᠣ 1D62	ᠣ 1D72
3	B 1D03	ᠢ 1D13	ᠣ 1D23	ᠢ 1D33	ᠣ 1D43	ᠣ 1D53	ᠣ 1D63	ᠣ 1D73
4	C 1D04	ᠢ 1D14	ᠣ 1D24	ᠢ 1D34	ᠣ 1D44	ᠣ 1D54	ᠣ 1D64	ᠣ 1D74
5	D 1D05	ᠢ 1D15	ᠣ 1D25	ᠢ 1D35	ᠣ 1D45	ᠣ 1D55	ᠣ 1D65	ᠣ 1D75
6	ᠢ 1D06	ᠢ 1D16	ᠣ 1D26	ᠢ 1D36	ᠣ 1D46	ᠣ 1D56	ᠣ 1D66	ᠣ 1D76
7	E 1D07	ᠢ 1D17	ᠣ 1D27	ᠢ 1D37	ᠣ 1D47	ᠣ 1D57	ᠣ 1D67	ᠣ 1D77
8	ᠢ 1D08	ᠢ 1D18	ᠣ 1D28	ᠢ 1D38	ᠣ 1D48	ᠣ 1D58	ᠣ 1D68	ᠣ 1D78
9	ᠢ 1D09	ᠢ 1D19	ᠣ 1D29	ᠢ 1D39	ᠣ 1D49	ᠣ 1D59	ᠣ 1D69	ᠣ 1D79
A	J 1D0A	ᠢ 1D1A	ᠣ 1D2A	ᠢ 1D3A	ᠣ 1D4A	ᠣ 1D5A	ᠣ 1D6A	ᠣ 1D7A
B	K 1D0B	ᠢ 1D1B	ᠣ 1D2B	ᠢ 1D3B	ᠣ 1D4B	ᠣ 1D5B	ᠣ 1D6B	ᠣ 1D7B
C	L 1D0C	ᠢ 1D1C	ᠣ 1D2C	ᠢ 1D3C	ᠣ 1D4C	ᠣ 1D5C	ᠣ 1D6C	ᠣ 1D7C
D	M 1D0D	ᠢ 1D1D	ᠣ 1D2D	ᠢ 1D3D	ᠣ 1D4D	ᠣ 1D5D	ᠣ 1D6D	ᠣ 1D7D
E	ᠢ 1D0E	ᠢ 1D1E	ᠣ 1D2E	ᠢ 1D3E	ᠣ 1D4E	ᠣ 1D5E	ᠣ 1D6E	ᠣ 1D7E
F	O 1D0F	ᠢ 1D1F	ᠣ 1D2F	ᠢ 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	Ʒ	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	Ɲ	LATIN LETTER SMALL CAPITAL REVERSED N
1D0F	O	LATIN LETTER SMALL CAPITAL O
1D10	Ɔ	LATIN LETTER SMALL CAPITAL OPEN O
1D11	◌	LATIN SMALL LETTER SIDEWAYS O
1D12	◌	LATIN SMALL LETTER SIDEWAYS OPEN O
1D13	◌	LATIN SMALL LETTER SIDEWAYS O WITH STROKE
1D14	œ	LATIN SMALL LETTER TURNED OE
		• glyph can also have sideways orientation
1D15	ø	LATIN LETTER SMALL CAPITAL OU
1D16	◌	LATIN SMALL LETTER TOP HALF O
1D17	◌	LATIN SMALL LETTER BOTTOM HALF O
1D18	P	LATIN LETTER SMALL CAPITAL P
		• represents a semi-voiced [p]
1D19	Я	LATIN LETTER SMALL CAPITAL REVERSED R
1D1A	Я	LATIN LETTER SMALL CAPITAL TURNED R
1D1B	T	LATIN LETTER SMALL CAPITAL T
1D1C	U	LATIN LETTER SMALL CAPITAL U
1D1D	◌	LATIN SMALL LETTER SIDEWAYS U
1D1E	◌	LATIN SMALL LETTER SIDEWAYS DIAERESIZED U
		• glyph can also have turned orientation
1D1F	Ʒ	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	Ʒ	LATIN LETTER SMALL CAPITAL EZH
1D24	ʕ	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 obliques, not italicized
		→ 043B Ӏ cyrillic small letter el

#### Latin superscript modifier letters

1D2C	ᵀ	MODIFIER LETTER CAPITAL A
		≈ <super> 0041 A
1D2D	ᵁ	MODIFIER LETTER CAPITAL AE
		≈ <super> 00C6 Æ
1D2E	ᵇ	MODIFIER LETTER CAPITAL B
		≈ <super> 0042 B
1D2F	ᵇ	MODIFIER LETTER CAPITAL BARRED B
1D30	ᵀ	MODIFIER LETTER CAPITAL D
		≈ <super> 0044 D
1D31	ᵉ	MODIFIER LETTER CAPITAL E
		≈ <super> 0045 E
1D32	ᵉ	MODIFIER LETTER CAPITAL REVERSED E
		≈ <super> 018E Ǝ
1D33	ᵍ	MODIFIER LETTER CAPITAL G
		≈ <super> 0047 G
1D34	ᵍ	MODIFIER LETTER CAPITAL H
		≈ <super> 0048 H
1D35	ᵇ	MODIFIER LETTER CAPITAL I
		≈ <super> 0049 I
1D36	ᵇ	MODIFIER LETTER CAPITAL J
		≈ <super> 004A J
1D37	ᵏ	MODIFIER LETTER CAPITAL K
		≈ <super> 004B K
1D38	ᵇ	MODIFIER LETTER CAPITAL L
		≈ <super> 004C L
1D39	ᵇ	MODIFIER LETTER CAPITAL M
		≈ <super> 004D M
1D3A	ᵇ	MODIFIER LETTER CAPITAL N
		≈ <super> 004E N
1D3B	ᵇ	MODIFIER LETTER CAPITAL REVERSED N
1D3C	ᵇ	MODIFIER LETTER CAPITAL O
		≈ <super> 004F O
1D3D	ᵇ	MODIFIER LETTER CAPITAL OU
		≈ <super> 0222 8
1D3E	ᵇ	MODIFIER LETTER CAPITAL P
		≈ <super> 0050 P
1D3F	ᵇ	MODIFIER LETTER CAPITAL R
		≈ <super> 0052 R
1D40	ᵀ	MODIFIER LETTER CAPITAL T
		≈ <super> 0054 T
1D41	ᵇ	MODIFIER LETTER CAPITAL U
		≈ <super> 0055 U
1D42	ᵇ	MODIFIER LETTER CAPITAL W
		≈ <super> 0057 W
1D43	ᵃ	MODIFIER LETTER SMALL A
		≈ <super> 0061 a
1D44	ᵇ	MODIFIER LETTER SMALL TURNED A
		≈ <super> 0250 ʁ
1D45	ᵃ	MODIFIER LETTER SMALL ALPHA
		≈ <super> 0251 α
1D46	ᵃ	MODIFIER LETTER SMALL TURNED AE
		≈ <super> 1D02 æ
1D47	ᵇ	MODIFIER LETTER SMALL B
		≈ <super> 0062 b

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

**Greek superscript modifier letters**

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

**Latin subscript modifier letters**

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

1D65	<sub>v</sub>	LATIN SUBSCRIPT SMALL LETTER V ≈ <sub> 0076 v
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**Greek subscript modifier letters**

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

**Latin letter**

1D6B	œ	LATIN SMALL LETTER UE
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**Latin letters with middle tilde**

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

1D6C	ɸ	LATIN SMALL LETTER B WITH MIDDLE TILDE
1D6D	ɸ	LATIN SMALL LETTER D WITH MIDDLE TILDE
1D6E	ɸ	LATIN SMALL LETTER F WITH MIDDLE TILDE
1D6F	ɸ	LATIN SMALL LETTER M WITH MIDDLE TILDE
1D70	ɸ	LATIN SMALL LETTER N WITH MIDDLE TILDE
1D71	ɸ	LATIN SMALL LETTER P WITH MIDDLE TILDE
1D72	ɸ	LATIN SMALL LETTER R WITH MIDDLE TILDE
1D73	ɸ	LATIN SMALL LETTER R WITH FISHHOOK AND MIDDLE TILDE
1D74	ɸ	LATIN SMALL LETTER S WITH MIDDLE TILDE
1D75	ɸ	LATIN SMALL LETTER T WITH MIDDLE TILDE
1D76	ɸ	LATIN SMALL LETTER Z WITH MIDDLE TILDE

**Caucasian linguistics**

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

**Other phonetic symbols**

1D79	Ḟ	LATIN SMALL LETTER INSULAR G • older Irish phonetic notation • uppercase is A77D Ḟ → 0067 g latin small letter g → 021D ȝ latin small letter yogh → 0261 ḡ latin small letter script g → 0263 ȳ latin small letter gamma
1D7A	ṯ	LATIN SMALL LETTER TH WITH STRIKETHROUGH • American dictionary usage → 03B8 θ greek small letter theta
1D7B	ɀ	LATIN SMALL CAPITAL LETTER I WITH STROKE • used with different meanings by Americanists and Oxford dictionaries
1D7C	ɀ	LATIN SMALL LETTER IOTA WITH STROKE • used by Russianists
1D7D	ɀ	LATIN SMALL LETTER P WITH STROKE • used by Americanists • uppercase is 2C63 P
1D7E	ɀ	LATIN SMALL CAPITAL LETTER U WITH STROKE • used by Americanists

- 1D7F     LATIN SMALL LETTER UPSILON WITH STROKE
- used by Americanists and Oxford dictionaries

	1D8	1D9	1DA	1DB
0	ᵇ 1D80	ᵃ 1D90	ᶠ 1DA0	N 1DB0
1	ᵈ 1D81	ᶑ 1D91	ᶓ 1DA1	ᵋ 1DB1
2	ᶠ 1D82	ᵉ 1D92	ᵍ 1DA2	ᶓ 1DB2
3	ᵍ 1D83	ᵋ 1D93	ᶑ 1DA3	ᶑ 1DB3
4	ᵏ 1D84	ᶑ 1D94	ᶑ 1DA4	ᶑ 1DB4
5	ᶑ 1D85	ᵉ 1D95	ᵇ 1DA5	ᵇ 1DB5
6	ᵐ 1D86	ᶑ 1D96	ᶑ 1DA6	ᶑ 1DB6
7	ᶑ 1D87	ᶑ 1D97	ᶑ 1DA7	ᵇ 1DB7
8	ᵇ 1D88	ᶑ 1D98	ᶑ 1DA8	ᵇ 1DB8
9	ᶑ 1D89	ᵉ 1D99	ᶑ 1DA9	ᵇ 1DB9
A	ᶑ 1D8A	ᶑ 1D9A	ᶑ 1DAA	ᶑ 1DBA
B	ᶑ 1D8B	ᵇ 1D9B	ᶑ 1DAB	ᶑ 1DBB
C	ᶑ 1D8C	ᶑ 1D9C	ᶑ 1DAC	ᶑ 1DBC
D	ᶑ 1D8D	ᶑ 1D9D	ᶑ 1DAD	ᶑ 1DBD
E	ᶑ 1D8E	ᶑ 1D9E	ᶑ 1DAE	ᶑ 1DBE
F	ᶑ 1D8F	ᶑ 1D9F	ᶑ 1DAF	ᶑ 1DBF



**Latin letters with palatal hook**

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

	→ 01AB	t̃	latin small letter t with palatal hook
1D80	b̃		LATIN SMALL LETTER B WITH PALATAL HOOK
1D81	d̃		LATIN SMALL LETTER D WITH PALATAL HOOK
1D82	f̃		LATIN SMALL LETTER F WITH PALATAL HOOK
1D83	g̃		LATIN SMALL LETTER G WITH PALATAL HOOK
1D84	k̃		LATIN SMALL LETTER K WITH PALATAL HOOK
1D85	l̃		LATIN SMALL LETTER L WITH PALATAL HOOK
1D86	m̃		LATIN SMALL LETTER M WITH PALATAL HOOK
1D87	ñ		LATIN SMALL LETTER N WITH PALATAL HOOK
1D88	p̃		LATIN SMALL LETTER P WITH PALATAL HOOK
1D89	r̃		LATIN SMALL LETTER R WITH PALATAL HOOK
1D8A	s̃		LATIN SMALL LETTER S WITH PALATAL HOOK
1D8B	ʃ̃		LATIN SMALL LETTER ESH WITH PALATAL HOOK
1D8C	ṽ		LATIN SMALL LETTER V WITH PALATAL HOOK
1D8D	x̃		LATIN SMALL LETTER X WITH PALATAL HOOK
1D8E	z̃		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	T̃	latin capital letter t with retroflex hook
	→ 0256	ḍ	latin small letter d with tail
	→ 026D	ḷ	latin small letter l with retroflex hook
	→ 0273	ṇ	latin small letter n with retroflex hook
	→ 027B	ɹ̣	latin small letter turned r with hook
	→ 027D	ṛ	latin small letter r with tail
	→ 0282	ṣ	latin small letter s with hook
	→ 0285	ʃ̣	latin small letter squat reversed esh
	→ 0288	ṭ	latin small letter t with retroflex hook
	→ 0290	ẓ	latin small letter z with retroflex hook
	→ 02AF	ɥ̣	latin small letter turned h with fishhook and tail
1D8F	ạ		LATIN SMALL LETTER A WITH RETROFLEX HOOK
1D90	α̣		LATIN SMALL LETTER ALPHA WITH RETROFLEX HOOK
1D91	ḍ		LATIN SMALL LETTER D WITH HOOK AND TAIL
1D92	ẹ		LATIN SMALL LETTER E WITH RETROFLEX HOOK
1D93	ε̣		LATIN SMALL LETTER OPEN E WITH RETROFLEX HOOK
1D94	ɜ̣		LATIN SMALL LETTER REVERSED OPEN E WITH RETROFLEX HOOK
	→ 025D	ɞ̣	latin small letter reversed open e with hook
1D95	ə̣		LATIN SMALL LETTER SCHWA WITH RETROFLEX HOOK
	→ 025A	ə̣	latin small letter schwa with hook
1D96	ị		LATIN SMALL LETTER I WITH RETROFLEX HOOK
1D97	ọ		LATIN SMALL LETTER OPEN O WITH RETROFLEX HOOK
1D98	ʊ̣		LATIN SMALL LETTER ESH WITH RETROFLEX HOOK
1D99	ụ		LATIN SMALL LETTER U WITH RETROFLEX HOOK












































1D9A	ɜ̣		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	ˆ		MODIFIER LETTER SMALL TURNED ALPHA
	≈ <super>	0252	ˆ
1D9C	ˆ		MODIFIER LETTER SMALL C
	≈ <super>	0063	ˆ
1D9D	ˆ		MODIFIER LETTER SMALL C WITH CURL
	≈ <super>	0255	ˆ
1D9E	ˆ		MODIFIER LETTER SMALL ETH
	≈ <super>	00F0	ˆ
1D9F	ˆ		MODIFIER LETTER SMALL REVERSED OPEN E
	≈ <super>	025C	ˆ
1DA0	ˆ		MODIFIER LETTER SMALL F
	≈ <super>	0066	ˆ
1DA1	ˆ		MODIFIER LETTER SMALL DOTLESS J WITH STROKE
	≈ <super>	025F	ˆ
1DA2	ˆ		MODIFIER LETTER SMALL SCRIPT G
	≈ <super>	0261	ˆ
1DA3	ˆ		MODIFIER LETTER SMALL TURNED H
	≈ <super>	0265	ˆ
1DA4	ˆ		MODIFIER LETTER SMALL I WITH STROKE
	≈ <super>	0268	ˆ
1DA5	ˆ		MODIFIER LETTER SMALL IOTA
	≈ <super>	0269	ˆ
1DA6	ˆ		MODIFIER LETTER SMALL CAPITAL I
	•	not for use in UPA	
	→ 1D35	ˆ	modifier letter capital i
	≈ <super>	026A	ˆ
1DA7	ˆ		MODIFIER LETTER SMALL CAPITAL I WITH STROKE
	≈ <super>	1D7B	ˆ
1DA8	ˆ		MODIFIER LETTER SMALL J WITH CROSSED-TAIL
	≈ <super>	029D	ˆ
1DA9	ˆ		MODIFIER LETTER SMALL L WITH RETROFLEX HOOK
	≈ <super>	026D	ˆ
1DAA	ˆ		MODIFIER LETTER SMALL L WITH PALATAL HOOK
	≈ <super>	1D85	ˆ
1DAB	ˆ		MODIFIER LETTER SMALL CAPITAL L
	•	not for use in UPA	
	→ 1D38	ˆ	modifier letter capital l
	≈ <super>	029F	ˆ
1DAC	ˆ		MODIFIER LETTER SMALL M WITH HOOK
	≈ <super>	0271	ˆ
1DAD	ˆ		MODIFIER LETTER SMALL TURNED M WITH LONG LEG
	≈ <super>	0270	ˆ
1DAE	ˆ		MODIFIER LETTER SMALL N WITH LEFT HOOK
	≈ <super>	0272	ˆ
1DAF	ˆ		MODIFIER LETTER SMALL N WITH RETROFLEX HOOK
	≈ <super>	0273	ˆ

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

	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	Ṁ 1E40	Ò 1E50	Š 1E60	Ŧ 1E70	Ẁ 1E80	Ẃ 1E90	Ạ 1EA0	Ǻ 1EB0	Ẽ 1EC0	Õ 1ED0	Ỗ 1EE0	Ư 1EF0
1	à 1E01	ā 1E11	ġ 1E21	ķ 1E31	ṁ 1E41	ò 1E51	š 1E61	ţ 1E71	ẁ 1E81	ẃ 1E91	ạ 1EA1	ǻ 1EB1	ẽ 1EC1	ố 1ED1	ỗ 1EE1	ự 1EF1
2	Ḃ 1E02	Ḭ 1E12	Ḥ 1E22	Ḳ 1E32	Ṁ 1E42	Ṗ 1E52	Ṣ 1E62	Ṫ 1E72	Ẃ 1E82	Ẅ 1E92	Ả 1EA2	Ǻ 1EB2	Ẽ 1EC2	Ồ 1ED2	Ợ 1EE2	Ỡ 1EF2
3	ḃ 1E03	ḭ 1E13	ḥ 1E23	ḳ 1E33	ṁ 1E43	ó 1E53	ṣ 1E63	ṽ 1E73	ẃ 1E83	ẅ 1E93	ả 1EA3	ǻ 1EB3	ẽ 1EC3	ồ 1ED3	ợ 1EE3	ỳ 1EF3
4	Ḅ 1E04	Ḫ 1E14	Ḧ 1E24	Ḵ 1E34	Ṃ 1E44	ṑ 1E54	Ṥ 1E64	Ṷ 1E74	Ẅ 1E84	Ẇ 1E94	Ẳ 1EA4	Ǽ 1EB4	Ễ 1EC4	Ỗ 1ED4	Ự 1EE4	Ỡ 1EF4
5	ḅ 1E05	ḫ 1E15	ḧ 1E25	ḵ 1E35	ṃ 1E45	ṑ 1E55	ṥ 1E65	ṷ 1E75	ẅ 1E85	ẇ 1E95	ẳ 1EA5	ǽ 1EB5	ễ 1EC5	ố 1ED5	ự 1EE5	ỷ 1EF5
6	Ḇ 1E06	Ḭ 1E16	Ḩ 1E26	Ḷ 1E36	Ṃ 1E46	ṑ 1E56	Ṥ 1E66	Ṹ 1E76	Ẇ 1E86	Ẉ 1E96	Ẳ 1EA6	Ǽ 1EB6	Ệ 1EC6	Ỗ 1ED6	Ự 1EE6	Ỡ 1EF6
7	ḇ 1E07	ḽ 1E17	ḩ 1E27	ḷ 1E37	ṃ 1E47	ṑ 1E57	Ṧ 1E67	ṹ 1E77	ẇ 1E87	ẉ 1E97	ẳ 1EA7	ǽ 1EB7	ệ 1EC7	ỗ 1ED7	ử 1EE7	ỷ 1EF7
8	Ć 1E08	Ė 1E18	Ḥ 1E28	Ĺ 1E38	Ń 1E48	Ŕ 1E58	Ś 1E68	Ũ 1E78	Ẁ 1E88	ẁ 1E98	Ẳ 1EA8	Ė 1EB8	Į 1EC8	Ô 1ED8	Ú 1EE8	Ỹ 1EF8
9	ć 1E09	ė 1E19	ḥ 1E29	ĺ 1E39	ņ 1E49	ŕ 1E59	ś 1E69	ũ 1E79	ẁ 1E89	ẃ 1E99	ẳ 1EA9	ė 1EB9	į 1EC9	ộ 1ED9	ứ 1EE9	ỹ 1EF9
A	Ḍ 1E0A	Ḭ 1E1A	Ḧ 1E2A	Ḵ 1E3A	Ṃ 1E4A	ṑ 1E5A	Ṥ 1E6A	Ṹ 1E7A	Ẳ 1E8A	Ẵ 1E9A	Ẳ 1EA	Ẻ 1EB	Į 1EC	Ó 1ED	Ù 1EE	Ł 1EF
B	ḏ 1E0B	ḽ 1E1B	ḩ 1E2B	ḻ 1E3B	ṃ 1E4B	ṑ 1E5B	Ṧ 1E6B	Ṻ 1E7B	ẳ 1E8B	ẏ 1E9B	ẳ 1EAB	ẻ 1EBB	ị 1ECB	ớ 1EDB	ừ 1EEB	ł 1EFB
C	Ḑ 1E0C	Ḭ 1E1C	Ḧ 1E2C	Ḵ 1E3C	Ṗ 1E4C	ṑ 1E5C	Ṣ 1E6C	Ṽ 1E7C	Ẳ 1E8C	Ẵ 1E9C	Ậ 1EAC	Ễ 1EBC	Ọ 1ECC	Ờ 1EDC	Ủ 1EEC	Ł 1EFC
D	ḑ 1E0D	ḽ 1E1D	ḩ 1E2D	ḽ 1E3D	ố 1E4D	ṑ 1E5D	ṣ 1E6D	ṽ 1E7D	ẳ 1E8D	ẏ 1E9D	ậ 1EAD	ễ 1EBD	ọ 1ECD	ờ 1EDD	ử 1EED	ł 1EFD
E	Ḓ 1E0E	Ḭ 1E1E	Ḧ 1E2E	Ḵ 1E3E	Ṗ 1E4E	ṑ 1E5E	Ṥ 1E6E	Ṷ 1E7E	Ỡ 1E8E	Ỡ 1E9E	Ắ 1EAE	Ễ 1EBE	Ỏ 1ECE	Ở 1EDE	Ữ 1EEE	Ỡ 1EFE
F	ḑ 1E0F	ḽ 1E1F	ḩ 1E2F	ḽ 1E3F	ố 1E4F	ṑ 1E5F	ṣ 1E6F	ṽ 1E7F	Ỡ 1E8F	Ỡ 1E9F	ắ 1EAF	ế 1EBF	ỏ 1ECF	ở 1EDF	ữ 1EEF	Ỡ 1EFF

*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	ā	LATIN SMALL LETTER B WITH DOT ABOVE • Irish Gaelic (old orthography) ≡ 0062 b 0307 ◌̇
1E04	Ḃ	LATIN CAPITAL LETTER B WITH DOT BELOW ≡ 0042 B 0323 ◌̣
1E05	ḃ	LATIN SMALL LETTER B WITH DOT BELOW ≡ 0062 b 0323 ◌̣
1E06	Ḅ	LATIN CAPITAL LETTER B WITH LINE BELOW ≡ 0042 B 0331 ◌̥
1E07	ḅ	LATIN SMALL LETTER B WITH LINE BELOW ≡ 0062 b 0331 ◌̥
1E08	Č	LATIN CAPITAL LETTER C WITH CEDILLA AND ACUTE ≡ 00C7 Č 0301 ◌̇
1E09	č	LATIN SMALL LETTER C WITH CEDILLA AND ACUTE ≡ 00E7 č 0301 ◌̇
1E0A	Ď	LATIN CAPITAL LETTER D WITH DOT ABOVE ≡ 0044 D 0307 ◌̇
1E0B	ď	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	Ḏ	LATIN CAPITAL LETTER D WITH LINE BELOW ≡ 0044 D 0331 ◌̥
1E0F	ḏ	LATIN SMALL LETTER D WITH LINE BELOW ≡ 0064 d 0331 ◌̥
1E10	Ḑ	LATIN CAPITAL LETTER D WITH CEDILLA ≡ 0044 D 0327 ◌̣
1E11	ḑ	LATIN SMALL LETTER D WITH CEDILLA • Livonian ≡ 0064 d 0327 ◌̣
1E12	Ḓ	LATIN CAPITAL LETTER D WITH CIRCUMFLEX BELOW ≡ 0044 D 032D ◌̣
1E13	ḓ	LATIN SMALL LETTER D WITH CIRCUMFLEX BELOW ≡ 0064 d 032D ◌̣
1E14	Ě	LATIN CAPITAL LETTER E WITH MACRON AND GRAVE ≡ 0112 Ě 0300 ◌̇
1E15	ě	LATIN SMALL LETTER E WITH MACRON AND GRAVE ≡ 0113 ě 0300 ◌̇
1E16	Ě	LATIN CAPITAL LETTER E WITH MACRON AND ACUTE ≡ 0112 Ě 0301 ◌̇

1E17	É	LATIN SMALL LETTER E WITH MACRON AND ACUTE ≡ 0113 ě 0301 ◌̇
1E18	Ė	LATIN CAPITAL LETTER E WITH CIRCUMFLEX BELOW ≡ 0045 E 032D ◌̣
1E19	ė	LATIN SMALL LETTER E WITH CIRCUMFLEX BELOW ≡ 0065 e 032D ◌̣
1E1A	Ē	LATIN CAPITAL LETTER E WITH TILDE BELOW ≡ 0045 E 0330 ◌̣
1E1B	ē	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	Ė	LATIN CAPITAL LETTER F WITH DOT ABOVE ≡ 0046 F 0307 ◌̇
1E1F	ė	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	ĝ	LATIN SMALL LETTER G WITH MACRON ≡ 0067 g 0304 ◌̇
1E22	Ĥ	LATIN CAPITAL LETTER H WITH DOT ABOVE ≡ 0048 H 0307 ◌̇
1E23	ĥ	LATIN SMALL LETTER H WITH DOT ABOVE ≡ 0068 h 0307 ◌̇
1E24	Ḥ	LATIN CAPITAL LETTER H WITH DOT BELOW ≡ 0048 H 0323 ◌̣
1E25	ḥ	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	İ	LATIN CAPITAL LETTER I WITH DIAERESIS AND ACUTE ≡ 00CF İ 0301 ◌̇
1E2F	ı	LATIN SMALL LETTER I WITH DIAERESIS AND ACUTE ≡ 00EF ĩ 0301 ◌̇
1E30	Ķ	LATIN CAPITAL LETTER K WITH ACUTE ≡ 004B K 0301 ◌̇

1E31	ĳ	LATIN SMALL LETTER K WITH ACUTE • Macedonian transliteration ≡ 006B k 0301 ó	1E49	ņ	LATIN SMALL LETTER N WITH LINE BELOW • Indic transliteration ≡ 006E n 0331 ȳ
1E32	Ḳ	LATIN CAPITAL LETTER K WITH DOT BELOW ≡ 004B K 0323 ȳ	1E4A	Ṇ	LATIN CAPITAL LETTER N WITH CIRCUMFLEX BELOW ≡ 004E N 032D ȳ
1E33	ķ	LATIN SMALL LETTER K WITH DOT BELOW ≡ 006B k 0323 ȳ	1E4B	ṇ	LATIN SMALL LETTER N WITH CIRCUMFLEX BELOW ≡ 006E n 032D ȳ
1E34	Ḵ	LATIN CAPITAL LETTER K WITH LINE BELOW ≡ 004B K 0331 ȳ	1E4C	Ŏ	LATIN CAPITAL LETTER O WITH TILDE AND ACUTE ≡ 00D5 Ō 0301 ó
1E35	ḵ	LATIN SMALL LETTER K WITH LINE BELOW ≡ 006B k 0331 ȳ	1E4D	ó	LATIN SMALL LETTER O WITH TILDE AND ACUTE ≡ 00F5 õ 0301 ó
1E36	Ḷ	LATIN CAPITAL LETTER L WITH DOT BELOW ≡ 004C L 0323 ȳ	1E4E	Ŏ	LATIN CAPITAL LETTER O WITH TILDE AND DIAERESIS ≡ 00D5 Ō 0308 ö
1E37	ḷ	LATIN SMALL LETTER L WITH DOT BELOW • Indic transliteration ≡ 006C l 0323 ȳ • see ISO 15919 on the use of dot below versus ring below in Indic transliteration → 0325 ȳ combining ring below	1E4F	ö	LATIN SMALL LETTER O WITH TILDE AND DIAERESIS ≡ 00F5 õ 0308 ö
1E38	Ḹ	LATIN CAPITAL LETTER L WITH DOT BELOW AND MACRON ≡ 1E36 Ḷ 0304 ̄	1E50	Ō	LATIN CAPITAL LETTER O WITH MACRON AND GRAVE ≡ 014C Ō 0300 ̀
1E39	ḹ	LATIN SMALL LETTER L WITH DOT BELOW AND MACRON • Indic transliteration ≡ 1E37 ḷ 0304 ̄	1E51	ò	LATIN SMALL LETTER O WITH MACRON AND GRAVE ≡ 014D ò 0300 ̀
1E3A	Ḻ	LATIN CAPITAL LETTER L WITH LINE BELOW ≡ 004C L 0331 ȳ	1E52	Ŏ	LATIN CAPITAL LETTER O WITH MACRON AND ACUTE ≡ 014C Ō 0301 ó
1E3B	ḻ	LATIN SMALL LETTER L WITH LINE BELOW • Indic transliteration ≡ 006C l 0331 ȳ	1E53	ó	LATIN SMALL LETTER O WITH MACRON AND ACUTE ≡ 014D ò 0301 ó
1E3C	Ḽ	LATIN CAPITAL LETTER L WITH CIRCUMFLEX BELOW ≡ 004C L 032D ȳ	1E54	Ṗ	LATIN CAPITAL LETTER P WITH ACUTE ≡ 0050 P 0301 ó
1E3D	ḽ	LATIN SMALL LETTER L WITH CIRCUMFLEX BELOW ≡ 006C l 032D ȳ	1E55	ṗ	LATIN SMALL LETTER P WITH ACUTE ≡ 0070 p 0301 ó
1E3E	Ṁ	LATIN CAPITAL LETTER M WITH ACUTE ≡ 004D M 0301 ó	1E56	Ṕ	LATIN CAPITAL LETTER P WITH DOT ABOVE ≡ 0050 P 0307 ˙
1E3F	ṁ	LATIN SMALL LETTER M WITH ACUTE ≡ 006D m 0301 ó	1E57	ṕ	LATIN SMALL LETTER P WITH DOT ABOVE • Irish Gaelic (old orthography) ≡ 0070 p 0307 ˙
1E40	Ṃ	LATIN CAPITAL LETTER M WITH DOT ABOVE ≡ 004D M 0307 ˙	1E58	Ṛ	LATIN CAPITAL LETTER R WITH DOT ABOVE ≡ 0052 R 0307 ˙
1E41	ṃ	LATIN SMALL LETTER M WITH DOT ABOVE • Irish Gaelic (old orthography) ≡ 006D m 0307 ˙	1E59	ṛ	LATIN SMALL LETTER R WITH DOT ABOVE ≡ 0072 r 0307 ˙
1E42	Ṅ	LATIN CAPITAL LETTER M WITH DOT BELOW ≡ 004D M 0323 ȳ	1E5A	Ṛ	LATIN CAPITAL LETTER R WITH DOT BELOW ≡ 0052 R 0323 ȳ
1E43	ṅ	LATIN SMALL LETTER M WITH DOT BELOW • Indic transliteration ≡ 006D m 0323 ȳ	1E5B	ṛ	LATIN SMALL LETTER R WITH DOT BELOW • Indic transliteration ≡ 0072 r 0323 ȳ • see ISO 15919 on the use of dot below versus ring below in Indic transliteration → 0325 ȳ combining ring below
1E44	Ṇ	LATIN CAPITAL LETTER N WITH DOT ABOVE ≡ 004E N 0307 ˙	1E5C	Ṛ	LATIN CAPITAL LETTER R WITH DOT BELOW AND MACRON ≡ 1E5A Ṛ 0304 ̄
1E45	ṇ	LATIN SMALL LETTER N WITH DOT ABOVE • Indic transliteration ≡ 006E n 0307 ˙	1E5D	ṛ	LATIN SMALL LETTER R WITH DOT BELOW AND MACRON • Indic transliteration ≡ 1E5B ṛ 0304 ̄
1E46	Ṋ	LATIN CAPITAL LETTER N WITH DOT BELOW ≡ 004E N 0323 ȳ	1E5E	Ṛ	LATIN CAPITAL LETTER R WITH LINE BELOW ≡ 0052 R 0331 ȳ
1E47	ṋ	LATIN SMALL LETTER N WITH DOT BELOW • Indic transliteration ≡ 006E n 0323 ȳ			
1E48	Ṍ	LATIN CAPITAL LETTER N WITH LINE BELOW ≡ 004E N 0331 ȳ			

1E5F	Ṛ	LATIN SMALL LETTER R WITH LINE BELOW • Indic transliteration ≡ 0072 ṛ 0331 Ṛ	1E76	Ũ	LATIN CAPITAL LETTER U WITH CIRCUMFLEX BELOW ≡ 0055 Ů 032D Ṛ
1E60	Š	LATIN CAPITAL LETTER S WITH DOT ABOVE ≡ 0053 Š 0307 Š	1E77	ŭ	LATIN SMALL LETTER U WITH CIRCUMFLEX BELOW ≡ 0075 ů 032D Ṛ
1E61	š	LATIN SMALL LETTER S WITH DOT ABOVE • Irish Gaelic (old orthography) ≡ 0073 s 0307 š	1E78	Ū	LATIN CAPITAL LETTER U WITH TILDE AND ACUTE ≡ 0168 Ů 0301 Š
1E62	Ṣ	LATIN CAPITAL LETTER S WITH DOT BELOW ≡ 0053 Ṣ 0323 Ṣ	1E79	ű	LATIN SMALL LETTER U WITH TILDE AND ACUTE ≡ 0169 ű 0301 Š
1E63	ṣ	LATIN SMALL LETTER S WITH DOT BELOW • Indic transliteration ≡ 0073 s 0323 ṣ	1E7A	Ü	LATIN CAPITAL LETTER U WITH MACRON AND DIAERESIS ≡ 016A Ü 0308 ʊ
1E64	Ṧ	LATIN CAPITAL LETTER S WITH ACUTE AND DOT ABOVE ≡ 015A Ṧ 0307 Ṧ	1E7B	ü	LATIN SMALL LETTER U WITH MACRON AND DIAERESIS ≡ 016B ü 0308 ʊ
1E65	ṧ	LATIN SMALL LETTER S WITH ACUTE AND DOT ABOVE ≡ 015B ṧ 0307 ṧ	1E7C	Ŵ	LATIN CAPITAL LETTER V WITH TILDE ≡ 0056 Ŵ 0303 ʋ
1E66	Š̈	LATIN CAPITAL LETTER S WITH CARON AND DOT ABOVE ≡ 0160 Š̈ 0307 Š̈	1E7D	ŵ	LATIN SMALL LETTER V WITH TILDE ≡ 0076 v 0303 ʋ
1E67	š̈	LATIN SMALL LETTER S WITH CARON AND DOT ABOVE ≡ 0161 š̈ 0307 š̈	1E7E	Ṳ	LATIN CAPITAL LETTER V WITH DOT BELOW ≡ 0056 Ṳ 0323 Ṳ
1E68	Ṡ	LATIN CAPITAL LETTER S WITH DOT BELOW AND DOT ABOVE ≡ 1E62 Ṡ 0307 Ṡ	1E7F	ṳ	LATIN SMALL LETTER V WITH DOT BELOW ≡ 0076 v 0323 ṳ
1E69	ṡ	LATIN SMALL LETTER S WITH DOT BELOW AND DOT ABOVE ≡ 1E63 ṡ 0307 ṡ	1E80	Ẁ	LATIN CAPITAL LETTER W WITH GRAVE ≡ 0057 Ẁ 0300 Ẁ
1E6A	Ṩ	LATIN CAPITAL LETTER T WITH DOT ABOVE ≡ 0054 Ṩ 0307 Ṩ	1E81	ẁ	LATIN SMALL LETTER W WITH GRAVE • Welsh ≡ 0077 w 0300 ẁ
1E6B	ṭ	LATIN SMALL LETTER T WITH DOT ABOVE • Irish Gaelic (old orthography) ≡ 0074 t 0307 ṭ	1E82	Ẃ	LATIN CAPITAL LETTER W WITH ACUTE ≡ 0057 Ẃ 0301 ʋ
1E6C	Ṣ̈	LATIN CAPITAL LETTER T WITH DOT BELOW ≡ 0054 Ṣ̈ 0323 Ṣ̈	1E83	ẃ	LATIN SMALL LETTER W WITH ACUTE • Welsh ≡ 0077 w 0301 ʋ
1E6D	ṣ̈	LATIN SMALL LETTER T WITH DOT BELOW • Indic transliteration ≡ 0074 t 0323 ṣ̈	1E84	Ẅ	LATIN CAPITAL LETTER W WITH DIAERESIS ≡ 0057 Ẅ 0308 ʊ
1E6E	Ṫ	LATIN CAPITAL LETTER T WITH LINE BELOW ≡ 0054 Ṫ 0331 Ṫ	1E85	ẅ	LATIN SMALL LETTER W WITH DIAERESIS • Welsh ≡ 0077 w 0308 ʊ
1E6F	ṭ̇	LATIN SMALL LETTER T WITH LINE BELOW • Semitic transliteration ≡ 0074 t 0331 ṭ̇	1E86	Ẇ	LATIN CAPITAL LETTER W WITH DOT ABOVE ≡ 0057 Ẇ 0307 ʋ
1E70	Ṭ	LATIN CAPITAL LETTER T WITH CIRCUMFLEX BELOW ≡ 0054 Ṭ 032D Ṭ	1E87	ẇ	LATIN SMALL LETTER W WITH DOT ABOVE ≡ 0077 w 0307 ʋ
1E71	ṭ̇	LATIN SMALL LETTER T WITH CIRCUMFLEX BELOW ≡ 0074 t 032D ṭ̇	1E88	Ẹ	LATIN CAPITAL LETTER W WITH DOT BELOW ≡ 0057 Ẹ 0323 Ṳ
1E72	Ū	LATIN CAPITAL LETTER U WITH DIAERESIS BELOW ≡ 0055 Ū 0324 Ṳ	1E89	ẏ	LATIN SMALL LETTER W WITH DOT BELOW ≡ 0077 w 0323 ṳ
1E73	ū	LATIN SMALL LETTER U WITH DIAERESIS BELOW ≡ 0075 u 0324 Ṳ	1E8A	Ẋ	LATIN CAPITAL LETTER X WITH DOT ABOVE ≡ 0058 Ẋ 0307 ʋ
1E74	Ŭ	LATIN CAPITAL LETTER U WITH TILDE BELOW ≡ 0055 Ŭ 0330 Ṳ	1E8B	ẋ	LATIN SMALL LETTER X WITH DOT ABOVE ≡ 0078 x 0307 ʋ
1E75	ū̇	LATIN SMALL LETTER U WITH TILDE BELOW ≡ 0075 u 0330 Ṳ	1E8C	Ẍ	LATIN CAPITAL LETTER X WITH DIAERESIS ≡ 0058 Ẍ 0308 ʊ
			1E8D	ẍ	LATIN SMALL LETTER X WITH DIAERESIS ≡ 0078 x 0308 ʊ
			1E8E	Ỳ	LATIN CAPITAL LETTER Y WITH DOT ABOVE ≡ 0059 Ỳ 0307 ʋ
			1E8F	ỳ	LATIN SMALL LETTER Y WITH DOT ABOVE ≡ 0079 y 0307 ʋ
			1E90	Ẑ	LATIN CAPITAL LETTER Z WITH CIRCUMFLEX ≡ 005A Ẑ 0302 ʋ



1E91	Ẑ	LATIN SMALL LETTER Z WITH CIRCUMFLEX ≡ 007A z 0302 0
1E92	Ẓ	LATIN CAPITAL LETTER Z WITH DOT BELOW ≡ 005A Z 0323 0
1E93	Ẕ	LATIN SMALL LETTER Z WITH DOT BELOW • Indic transliteration ≡ 007A z 0323 0
1E94	Ẕ	LATIN CAPITAL LETTER Z WITH LINE BELOW ≡ 005A Z 0331 0
1E95	ẖ	LATIN SMALL LETTER Z WITH LINE BELOW • Semitic transliteration ≡ 007A z 0331 0
1E96	ḥ	LATIN SMALL LETTER H WITH LINE BELOW • Semitic transliteration ≡ 0068 h 0331 0
1E97	ï	LATIN SMALL LETTER T WITH DIAERESIS ≡ 0074 t 0308 0
1E98	Ẁ	LATIN SMALL LETTER W WITH RING ABOVE ≡ 0077 w 030A 0
1E99	Ẃ	LATIN SMALL LETTER Y WITH RING ABOVE ≡ 0079 y 030A 0
1EA9A	Ḃ	LATIN SMALL LETTER A WITH RIGHT HALF RING ≈ 0061 a 02BE ʹ
1E9B	Ḟ	LATIN SMALL LETTER LONG S WITH DOT ABOVE • in current use in Gaelic types (as glyph variant of 1E61 ḡ) ≡ 017F f 0307 0

**Medievalist additions**

1E9C	ƒ	LATIN SMALL LETTER LONG S WITH DIAGONAL STROKE • Sorbian • medievalist use for several abbreviations • used in pre-1921 Latvian orthography • used in Blackletter types of pre-1950 Lower Sorbian orthography → A7A9 ƒ latin small letter s with oblique stroke
1E9D	Ḣ	LATIN SMALL LETTER LONG S WITH HIGH STROKE

**Addition for German typography**

1E9E	Ẹ	LATIN CAPITAL LETTER SHARP S • lowercase is 00DF Ẹ → 00DF Ẹ 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	Ạ	LATIN CAPITAL LETTER A WITH DOT BELOW ≡ 0041 A 0323 0
1EA1	ạ	LATIN SMALL LETTER A WITH DOT BELOW ≡ 0061 a 0323 0
1EA2	Ả	LATIN CAPITAL LETTER A WITH HOOK ABOVE ≡ 0041 A 0309 0
1EA3	ả	LATIN SMALL LETTER A WITH HOOK ABOVE ≡ 0061 a 0309 0
1EA4	Ẻ	LATIN CAPITAL LETTER A WITH CIRCUMFLEX AND ACUTE ≡ 00C2 Ắ 0301 0
1EA5	ẻ	LATIN SMALL LETTER A WITH CIRCUMFLEX AND ACUTE ≡ 00E2 ắ 0301 0

1EA6	Ẻ	LATIN CAPITAL LETTER A WITH CIRCUMFLEX AND GRAVE ≡ 00C2 Ắ 0300 0
1EA7	ạ	LATIN SMALL LETTER A WITH CIRCUMFLEX AND GRAVE ≡ 00E2 ắ 0300 0
1EA8	Ẻ	LATIN CAPITAL LETTER A WITH CIRCUMFLEX AND HOOK ABOVE ≡ 00C2 Ắ 0309 0
1EA9	ẻ	LATIN SMALL LETTER A WITH CIRCUMFLEX AND HOOK ABOVE ≡ 00E2 ắ 0309 0
1EAA	Ẻ	LATIN CAPITAL LETTER A WITH CIRCUMFLEX AND TILDE ≡ 00C2 Ắ 0303 0
1EAB	ẻ	LATIN SMALL LETTER A WITH CIRCUMFLEX AND TILDE ≡ 00E2 ắ 0303 0
1EAC	Ẻ	LATIN CAPITAL LETTER A WITH CIRCUMFLEX AND DOT BELOW ≡ 1EA0 Ạ 0302 0
1EAD	ẻ	LATIN SMALL LETTER A WITH CIRCUMFLEX AND DOT BELOW ≡ 1EA1 ạ 0302 0
1EAE	Ẻ	LATIN CAPITAL LETTER A WITH BREVE AND ACUTE ≡ 0102 Ắ 0301 0
1EAF	ẻ	LATIN SMALL LETTER A WITH BREVE AND ACUTE ≡ 0103 ắ 0301 0
1EB0	Ẻ	LATIN CAPITAL LETTER A WITH BREVE AND GRAVE ≡ 0102 Ắ 0300 0
1EB1	ạ	LATIN SMALL LETTER A WITH BREVE AND GRAVE ≡ 0103 ắ 0300 0
1EB2	Ẻ	LATIN CAPITAL LETTER A WITH BREVE AND HOOK ABOVE ≡ 0102 Ắ 0309 0
1EB3	ẻ	LATIN SMALL LETTER A WITH BREVE AND HOOK ABOVE ≡ 0103 ắ 0309 0
1EB4	Ẻ	LATIN CAPITAL LETTER A WITH BREVE AND TILDE ≡ 0102 Ắ 0303 0
1EB5	ẻ	LATIN SMALL LETTER A WITH BREVE AND TILDE ≡ 0103 ắ 0303 0
1EB6	Ẻ	LATIN CAPITAL LETTER A WITH BREVE AND DOT BELOW ≡ 1EA0 Ạ 0306 0
1EB7	ẻ	LATIN SMALL LETTER A WITH BREVE AND DOT BELOW ≡ 1EA1 ạ 0306 0
1EB8	Ẻ	LATIN CAPITAL LETTER E WITH DOT BELOW ≡ 0045 E 0323 0
1EB9	ẻ	LATIN SMALL LETTER E WITH DOT BELOW ≡ 0065 e 0323 0
1EBA	Ẻ	LATIN CAPITAL LETTER E WITH HOOK ABOVE ≡ 0045 E 0309 0
1EBB	ẻ	LATIN SMALL LETTER E WITH HOOK ABOVE ≡ 0065 e 0309 0
1EBC	Ẻ	LATIN CAPITAL LETTER E WITH TILDE ≡ 0045 E 0303 0

1EBD	ẽ	LATIN SMALL LETTER E WITH TILDE ≡ 0065 e 0303 ẽ
1EBE	Ě	LATIN CAPITAL LETTER E WITH CIRCUMFLEX AND ACUTE ≡ 00CA Ě 0301 ǎ
1EBF	ě	LATIN SMALL LETTER E WITH CIRCUMFLEX AND ACUTE ≡ 00EA ě 0301 ǎ
1EC0	Ě̂	LATIN CAPITAL LETTER E WITH CIRCUMFLEX AND GRAVE ≡ 00CA Ě̂ 0300 ̀
1EC1	ẽ̂	LATIN SMALL LETTER E WITH CIRCUMFLEX AND GRAVE ≡ 00EA ẽ̂ 0300 ̀
1EC2	Ě̃	LATIN CAPITAL LETTER E WITH CIRCUMFLEX AND HOOK ABOVE ≡ 00CA Ě̃ 0309 ̂
1EC3	ě̃	LATIN SMALL LETTER E WITH CIRCUMFLEX AND HOOK ABOVE ≡ 00EA ě̃ 0309 ̂
1EC4	Ě̄	LATIN CAPITAL LETTER E WITH CIRCUMFLEX AND TILDE ≡ 00CA Ě̄ 0303 ̃
1EC5	ẽ̄	LATIN SMALL LETTER E WITH CIRCUMFLEX AND TILDE ≡ 00EA ẽ̄ 0303 ̃
1EC6	Ě̇	LATIN CAPITAL LETTER E WITH CIRCUMFLEX AND DOT BELOW ≡ 1EB8 Ě̇ 0302 ̇
1EC7	ẽ̇	LATIN SMALL LETTER E WITH CIRCUMFLEX AND DOT BELOW ≡ 1EB9 ẽ̇ 0302 ̇
1EC8	İ̇	LATIN CAPITAL LETTER I WITH HOOK ABOVE ≡ 0049 İ̇ 0309 ̂
1EC9	ĩ̇	LATIN SMALL LETTER I WITH HOOK ABOVE ≡ 0069 ï̇ 0309 ̂
1ECA	İ̈	LATIN CAPITAL LETTER I WITH DOT BELOW ≡ 0049 İ̈ 0323 ̈
1ECB	ĩ̈	LATIN SMALL LETTER I WITH DOT BELOW ≡ 0069 ï̈ 0323 ̈
1ECC	Ȯ	LATIN CAPITAL LETTER O WITH DOT BELOW ≡ 004F Ȯ 0323 ̈
1ECD	ȯ	LATIN SMALL LETTER O WITH DOT BELOW ≡ 006F ȯ 0323 ̈
1ECE	Ȫ	LATIN CAPITAL LETTER O WITH HOOK ABOVE ≡ 004F Ȫ 0309 ̂
1ECF	ȫ	LATIN SMALL LETTER O WITH HOOK ABOVE ≡ 006F ȫ 0309 ̂
1ED0	Ȭ	LATIN CAPITAL LETTER O WITH CIRCUMFLEX AND ACUTE ≡ 00D4 Ȭ 0301 ́
1ED1	ȭ	LATIN SMALL LETTER O WITH CIRCUMFLEX AND ACUTE ≡ 00F4 ȭ 0301 ́
1ED2	Ȯ̂	LATIN CAPITAL LETTER O WITH CIRCUMFLEX AND GRAVE ≡ 00D4 Ȯ̂ 0300 ̀
1ED3	ȭ̂	LATIN SMALL LETTER O WITH CIRCUMFLEX AND GRAVE ≡ 00F4 ȭ̂ 0300 ̀
1ED4	Ȯ̃	LATIN CAPITAL LETTER O WITH CIRCUMFLEX AND HOOK ABOVE ≡ 00D4 Ȯ̃ 0309 ̂
1ED5	Ȱ	LATIN SMALL LETTER O WITH CIRCUMFLEX AND HOOK ABOVE ≡ 00F4 Ȱ 0309 ̂
1ED6	Ȯ̇	LATIN CAPITAL LETTER O WITH CIRCUMFLEX AND TILDE ≡ 00D4 Ȯ̇ 0303 ̃
1ED7	ȭ̇	LATIN SMALL LETTER O WITH CIRCUMFLEX AND TILDE ≡ 00F4 ȭ̇ 0303 ̃
1ED8	Ȫ̂	LATIN CAPITAL LETTER O WITH CIRCUMFLEX AND DOT BELOW ≡ 1ECC Ȫ̂ 0302 ̇
1ED9	ȫ̂	LATIN SMALL LETTER O WITH CIRCUMFLEX AND DOT BELOW ≡ 1ECD ȫ̂ 0302 ̇
1EDA	Ȭ̃	LATIN CAPITAL LETTER O WITH HORN AND ACUTE ≡ 01A0 Ȭ̃ 0301 ́
1EDB	ȭ̃	LATIN SMALL LETTER O WITH HORN AND ACUTE ≡ 01A1 ȭ̃ 0301 ́
1EDC	Ȭ̄	LATIN CAPITAL LETTER O WITH HORN AND GRAVE ≡ 01A0 Ȭ̄ 0300 ̀
1EDD	ȭ̄	LATIN SMALL LETTER O WITH HORN AND GRAVE ≡ 01A1 ȭ̄ 0300 ̀
1EDE	Ȭ̇	LATIN CAPITAL LETTER O WITH HORN AND HOOK ABOVE ≡ 01A0 Ȭ̇ 0309 ̂
1EDF	ȭ̇	LATIN SMALL LETTER O WITH HORN AND HOOK ABOVE ≡ 01A1 ȭ̇ 0309 ̂
1EE0	Ȭ̈̃	LATIN CAPITAL LETTER O WITH HORN AND TILDE ≡ 01A0 Ȭ̈̃ 0303 ̃
1EE1	ȭ̈̃	LATIN SMALL LETTER O WITH HORN AND TILDE ≡ 01A1 ȭ̈̃ 0303 ̃
1EE2	Ȭ̈̇	LATIN CAPITAL LETTER O WITH HORN AND DOT BELOW ≡ 01A0 Ȭ̈̇ 0323 ̈
1EE3	ȭ̈̇	LATIN SMALL LETTER O WITH HORN AND DOT BELOW ≡ 01A1 ȭ̈̇ 0323 ̈
1EE4	Ȫ̈̇	LATIN CAPITAL LETTER U WITH DOT BELOW ≡ 0055 Ȫ̈̇ 0323 ̈
1EE5	ȫ̈̇	LATIN SMALL LETTER U WITH DOT BELOW ≡ 0075 ȫ̈̇ 0323 ̈
1EE6	Ȫ̃	LATIN CAPITAL LETTER U WITH HOOK ABOVE ≡ 0055 Ȫ̃ 0309 ̂
1EE7	ȫ̃	LATIN SMALL LETTER U WITH HOOK ABOVE ≡ 0075 ȫ̃ 0309 ̂
1EE8	Ȫ̄	LATIN CAPITAL LETTER U WITH HORN AND ACUTE ≡ 01AF Ȫ̄ 0301 ́
1EE9	ȫ̄	LATIN SMALL LETTER U WITH HORN AND ACUTE ≡ 01B0 ȫ̄ 0301 ́
1EEA	Ȫ̇	LATIN CAPITAL LETTER U WITH HORN AND GRAVE ≡ 01AF Ȫ̇ 0300 ̀
1EEB	ȫ̇	LATIN SMALL LETTER U WITH HORN AND GRAVE ≡ 01B0 ȫ̇ 0300 ̀

- 1EEC Ů LATIN CAPITAL LETTER U WITH HORN AND HOOK ABOVE  
 ≡ 01AF Ů 0309 ǫ
- 1EED ǔ LATIN SMALL LETTER U WITH HORN AND HOOK ABOVE  
 ≡ 01B0 ǔ 0309 ǫ
- 1EEE Ũ LATIN CAPITAL LETTER U WITH HORN AND TILDE  
 ≡ 01AF Ů 0303 ǫ
- 1EEF ǖ LATIN SMALL LETTER U WITH HORN AND TILDE  
 ≡ 01B0 ǔ 0303 ǫ
- 1EF0 Ǘ LATIN CAPITAL LETTER U WITH HORN AND DOT BELOW  
 ≡ 01AF Ů 0323 ǫ
- 1EF1 Ǚ LATIN SMALL LETTER U WITH HORN AND DOT BELOW  
 ≡ 01B0 ǔ 0323 ǫ

**Latin general extensions**

- 1EF2 Ÿ LATIN CAPITAL LETTER Y WITH GRAVE  
 ≡ 0059 Y 0300 ̀
- 1EF3 ÿ LATIN SMALL LETTER Y WITH GRAVE  
 • Welsh  
 ≡ 0079 y 0300 ̀
- 1EF4 Ƴ LATIN CAPITAL LETTER Y WITH DOT BELOW  
 ≡ 0059 Y 0323 ˙
- 1EF5 ƴ LATIN SMALL LETTER Y WITH DOT BELOW  
 ≡ 0079 y 0323 ˙
- 1EF6 ƶ LATIN CAPITAL LETTER Y WITH HOOK ABOVE  
 ≡ 0059 Y 0309 ǫ
- 1EF7 Ʒ LATIN SMALL LETTER Y WITH HOOK ABOVE  
 ≡ 0079 y 0309 ǫ
- 1EF8 Ȳ LATIN CAPITAL LETTER Y WITH TILDE  
 ≡ 0059 Y 0303 ̃
- 1EF9 ȳ LATIN SMALL LETTER Y WITH TILDE  
 ≡ 0079 y 0303 ̃

**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

	1F0	1F1	1F2	1F3	1F4	1F5	1F6	1F7	1F8	1F9	1FA	1FB	1FC	1FD	1FE	1FF
0	ἀ 1F00	ἁ 1F10	ἂ 1F20	ἃ 1F30	ἄ 1F40	ἅ 1F50	ἆ 1F60	ἇ 1F70	Ἀ 1F80	Ἁ 1F90	Ἂ 1FA0	Ἃ 1FB0	Ἄ 1FC0	Ἅ 1FD0	ἆ 1FE0	
1	ἐ 1F01	ἑ 1F11	ἒ 1F21	ἓ 1F31	ἔ 1F41	ἕ 1F51	἖ 1F61	἗ 1F71	Ἐ 1F81	Ἑ 1F91	Ἂ 1FA1	Ἃ 1FB1	Ἄ 1FC1	Ἅ 1FD1	ἆ 1FE1	
2	ἐ 1F02	ἑ 1F12	ἒ 1F22	ἓ 1F32	ἔ 1F42	ἕ 1F52	἖ 1F62	἗ 1F72	Ἐ 1F82	Ἑ 1F92	Ἂ 1FA2	Ἃ 1FB2	Ἄ 1FC2	Ἅ 1FD2	ἆ 1FE2	ἇ 1FF2
3	ἐ 1F03	ἑ 1F13	ἒ 1F23	ἓ 1F33	ἔ 1F43	ἕ 1F53	἖ 1F63	἗ 1F73	Ἐ 1F83	Ἑ 1F93	Ἂ 1FA3	Ἃ 1FB3	Ἄ 1FC3	Ἅ 1FD3	ἆ 1FE3	ἇ 1FF3
4	ἐ 1F04	ἑ 1F14	ἒ 1F24	ἓ 1F34	ἔ 1F44	ἕ 1F54	἖ 1F64	἗ 1F74	Ἐ 1F84	Ἑ 1F94	Ἂ 1FA4	Ἃ 1FB4	Ἄ 1FC4		ἆ 1FE4	ἇ 1FF4
5	ἐ 1F05	ἑ 1F15	ἒ 1F25	ἓ 1F35	ἔ 1F45	ἕ 1F55	἖ 1F65	἗ 1F75	Ἐ 1F85	Ἑ 1F95	Ἂ 1FA5				ἆ 1FE5	
6	ἐ 1F06		ἒ 1F26	ἓ 1F36		ἕ 1F56	἖ 1F66	἗ 1F76	Ἐ 1F86	Ἑ 1F96	Ἂ 1FA6	Ἃ 1FB6	Ἄ 1FC6	Ἅ 1FD6	ἆ 1FE6	ἇ 1FF6
7	ἐ 1F07		ἒ 1F27	ἓ 1F37		ἕ 1F57	἖ 1F67	἗ 1F77	Ἐ 1F87	Ἑ 1F97	Ἂ 1FA7	Ἃ 1FB7	Ἄ 1FC7	Ἅ 1FD7	ἆ 1FE7	ἇ 1FF7
8	Ἀ 1F08	Ἐ 1F18	Ἠ 1F28	Ἰ 1F38	Ἲ 1F48		Ἲ 1F68	ὀ 1F78	Ἀ 1F88	Ἠ 1F98	Ἲ 1FA8	Ἰ 1FB8	Ἰ 1FC8	Ἰ 1FD8	Ἰ 1FE8	Ἰ 1FF8
9	Ἀ 1F09	Ἐ 1F19	Ἠ 1F29	Ἰ 1F39	Ἲ 1F49	Ἲ 1F59	Ἲ 1F69	ὀ 1F79	Ἀ 1F89	Ἠ 1F99	Ἲ 1FA9	Ἰ 1FB9	Ἰ 1FC9	Ἰ 1FD9	Ἰ 1FE9	Ἰ 1FF9
A	Ἀ 1F0A	Ἐ 1F1A	Ἠ 1F2A	Ἰ 1F3A	Ἲ 1F4A		Ἲ 1F6A	ὀ 1F7A	Ἀ 1F8A	Ἠ 1F9A	Ἲ 1FAA	Ἰ 1FBA	Ἰ 1FCA	Ἰ 1FDA	Ἰ 1FEA	Ἰ 1FFA
B	Ἀ 1F0B	Ἐ 1F1B	Ἠ 1F2B	Ἰ 1F3B	Ἲ 1F4B	Ἲ 1F5B	Ἲ 1F6B	ὀ 1F7B	Ἀ 1F8B	Ἠ 1F9B	Ἲ 1FAB	Ἰ 1FBB	Ἰ 1FCB	Ἰ 1FDB	Ἰ 1FEB	Ἰ 1FFB
C	Ἀ 1F0C	Ἐ 1F1C	Ἠ 1F2C	Ἰ 1F3C	Ἲ 1F4C		Ἲ 1F6C	ὀ 1F7C	Ἀ 1F8C	Ἠ 1F9C	Ἲ 1FAC	Ἰ 1FBC	Ἰ 1FCC		Ἰ 1FEC	Ἰ 1FFC
D	Ἀ 1F0D	Ἐ 1F1D	Ἠ 1F2D	Ἰ 1F3D	Ἲ 1F4D	Ἲ 1F5D	Ἲ 1F6D	ὀ 1F7D	Ἀ 1F8D	Ἠ 1F9D	Ἲ 1FAD	Ἰ 1FBD	Ἰ 1FCD	Ἰ 1FDD	Ἰ 1FED	Ἰ 1FFD
E	Ἀ 1F0E		Ἠ 1F2E	Ἰ 1F3E			Ἲ 1F6E		Ἀ 1F8E	Ἠ 1F9E	Ἲ 1FAE	Ἰ 1FBE	Ἰ 1FCE	Ἰ 1FDE	Ἰ 1FEE	Ἰ 1FFE
F	Ἀ 1F0F		Ἠ 1F2F	Ἰ 1F3F		Ἲ 1F5F	Ἲ 1F6F		Ἀ 1F8F	Ἠ 1F9F	Ἲ 1FAF	Ἰ 1FBF	Ἰ 1FCF	Ἰ 1FDF	Ἰ 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 ̈́
1F03	ᾃ	GREEK SMALL LETTER ALPHA WITH DASIA AND VARIA ≡ 1F01 ᾁ 0300 ̈́
1F04	ᾄ	GREEK SMALL LETTER ALPHA WITH PSILI AND OXIA ≡ 1F00 ᾀ 0301 ͅ
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 ͆
1F07	ᾇ	GREEK SMALL LETTER ALPHA WITH DASIA AND PERISPOMENI ≡ 1F01 ᾁ 0342 ͆
1F08	Ἀ	GREEK CAPITAL LETTER ALPHA WITH PSILI ≡ 0391 Α 0313 ͂
1F09	Ἀ	GREEK CAPITAL LETTER ALPHA WITH DASIA ≡ 0391 Α 0314 ̓
1F0A	Ἀ	GREEK CAPITAL LETTER ALPHA WITH PSILI AND VARIA ≡ 1F08 Ἀ 0300 ̈́
1F0B	Ἀ	GREEK CAPITAL LETTER ALPHA WITH DASIA AND VARIA ≡ 1F09 Ἀ 0300 ̈́
1F0C	Ἀ	GREEK CAPITAL LETTER ALPHA WITH PSILI AND OXIA ≡ 1F08 Ἀ 0301 ͅ
1F0D	Ἀ	GREEK CAPITAL LETTER ALPHA WITH DASIA AND OXIA ≡ 1F09 Ἀ 0301 ͅ
1F0E	Ἀ	GREEK CAPITAL LETTER ALPHA WITH PSILI AND PERISPOMENI ≡ 1F08 Ἀ 0342 ͆
1F0F	Ἀ	GREEK CAPITAL LETTER ALPHA WITH DASIA AND PERISPOMENI ≡ 1F09 Ἀ 0342 ͆
1F10	ἒ	GREEK SMALL LETTER EPSILON WITH PSILI ≡ 03B5 ε 0313 ͂
1F11	ἓ	GREEK SMALL LETTER EPSILON WITH DASIA ≡ 03B5 ε 0314 ̓
1F12	ἔ	GREEK SMALL LETTER EPSILON WITH PSILI AND VARIA ≡ 1F10 ἒ 0300 ̈́
1F13	ἕ	GREEK SMALL LETTER EPSILON WITH DASIA AND VARIA ≡ 1F11 ἓ 0300 ̈́
1F14	἖	GREEK SMALL LETTER EPSILON WITH PSILI AND OXIA ≡ 1F10 ἒ 0301 ͅ
1F15	἗	GREEK SMALL LETTER EPSILON WITH DASIA AND OXIA ≡ 1F11 ἓ 0301 ͅ
1F16	␣	<reserved>
1F17	␣	<reserved>
1F18	Ἐ	GREEK CAPITAL LETTER EPSILON WITH PSILI ≡ 0395 Ε 0313 ͂
1F19	Ἑ	GREEK CAPITAL LETTER EPSILON WITH DASIA ≡ 0395 Ε 0314 ̓
1F1A	Ἐ	GREEK CAPITAL LETTER EPSILON WITH PSILI AND VARIA ≡ 1F18 Ἐ 0300 ̈́
1F1B	Ἑ	GREEK CAPITAL LETTER EPSILON WITH DASIA AND VARIA ≡ 1F19 Ἑ 0300 ̈́
1F1C	Ἒ	GREEK CAPITAL LETTER EPSILON WITH PSILI AND OXIA ≡ 1F18 Ἐ 0301 ͅ
1F1D	Ἓ	GREEK CAPITAL LETTER EPSILON WITH DASIA AND OXIA ≡ 1F19 Ἑ 0301 ͅ
1F1E	␣	<reserved>
1F1F	␣	<reserved>
1F20	ἦ	GREEK SMALL LETTER ETA WITH PSILI ≡ 03B7 η 0313 ͂
1F21	ἧ	GREEK SMALL LETTER ETA WITH DASIA ≡ 03B7 η 0314 ̓
1F22	Ἠ	GREEK SMALL LETTER ETA WITH PSILI AND VARIA ≡ 1F20 ἦ 0300 ̈́
1F23	Ἡ	GREEK SMALL LETTER ETA WITH DASIA AND VARIA ≡ 1F21 ἧ 0300 ̈́
1F24	Ἢ	GREEK SMALL LETTER ETA WITH PSILI AND OXIA ≡ 1F20 ἦ 0301 ͅ
1F25	Ἣ	GREEK SMALL LETTER ETA WITH DASIA AND OXIA ≡ 1F21 ἧ 0301 ͅ
1F26	Ἤ	GREEK SMALL LETTER ETA WITH PSILI AND PERISPOMENI ≡ 1F20 ἦ 0342 ͆
1F27	Ἥ	GREEK SMALL LETTER ETA WITH DASIA AND PERISPOMENI ≡ 1F21 ἧ 0342 ͆
1F28	Ἐ	GREEK CAPITAL LETTER ETA WITH PSILI ≡ 0397 Η 0313 ͂
1F29	Ἑ	GREEK CAPITAL LETTER ETA WITH DASIA ≡ 0397 Η 0314 ̓
1F2A	Ἐ	GREEK CAPITAL LETTER ETA WITH PSILI AND VARIA ≡ 1F28 Ἐ 0300 ̈́
1F2B	Ἑ	GREEK CAPITAL LETTER ETA WITH DASIA AND VARIA ≡ 1F29 Ἑ 0300 ̈́
1F2C	Ἒ	GREEK CAPITAL LETTER ETA WITH PSILI AND OXIA ≡ 1F28 Ἐ 0301 ͅ
1F2D	Ἓ	GREEK CAPITAL LETTER ETA WITH DASIA AND OXIA ≡ 1F29 Ἑ 0301 ͅ
1F2E	Ἤ	GREEK CAPITAL LETTER ETA WITH PSILI AND PERISPOMENI ≡ 1F28 Ἐ 0342 ͆
1F2F	Ἥ	GREEK CAPITAL LETTER ETA WITH DASIA AND PERISPOMENI ≡ 1F29 Ἑ 0342 ͆
1F30	ἰ	GREEK SMALL LETTER IOTA WITH PSILI ≡ 03B9 ι 0313 ͂

1F31	ι	GREEK SMALL LETTER IOTA WITH DASIA ≡ 03B9 ι 0314 ♂	1F4A	Ό	GREEK CAPITAL LETTER OMICRON WITH PSILI AND VARIA ≡ 1F48 Ό 0300 ♂
1F32	ϊ	GREEK SMALL LETTER IOTA WITH PSILI AND VARIA ≡ 1F30 ι 0300 ♂	1F4B	Ό	GREEK CAPITAL LETTER OMICRON WITH DASIA AND VARIA ≡ 1F49 Ό 0300 ♂
1F33	ΐ	GREEK SMALL LETTER IOTA WITH DASIA AND VARIA ≡ 1F31 ι 0300 ♂	1F4C	Ό	GREEK CAPITAL LETTER OMICRON WITH PSILI AND OXIA ≡ 1F48 Ό 0301 ♂
1F34	ΐ̂	GREEK SMALL LETTER IOTA WITH PSILI AND OXIA ≡ 1F30 ι 0301 ♂	1F4D	Ό	GREEK CAPITAL LETTER OMICRON WITH DASIA AND OXIA ≡ 1F49 Ό 0301 ♂
1F35	ΐ̃	GREEK SMALL LETTER IOTA WITH DASIA AND OXIA ≡ 1F31 ι 0301 ♂	1F4E	▨	<reserved>
1F36	ΐ̄	GREEK SMALL LETTER IOTA WITH PSILI AND PERISPOMENI ≡ 1F30 ι 0342 ♂	1F4F	▨	<reserved>
1F37	ΐ̅	GREEK SMALL LETTER IOTA WITH DASIA AND PERISPOMENI ≡ 1F31 ι 0342 ♂	1F50	ϐ	GREEK SMALL LETTER UPSILON WITH PSILI ≡ 03C5 ϐ 0313 ♂
1F38	Ϊ	GREEK CAPITAL LETTER IOTA WITH PSILI ≡ 0399 Ϊ 0313 ♂	1F51	ϑ	GREEK SMALL LETTER UPSILON WITH DASIA ≡ 03C5 ϐ 0314 ♂
1F39	Ϋ	GREEK CAPITAL LETTER IOTA WITH DASIA ≡ 0399 Ϋ 0314 ♂	1F52	ϒ	GREEK SMALL LETTER UPSILON WITH PSILI AND VARIA ≡ 1F50 ϐ 0300 ♂
1F3A	Ϋ̂	GREEK CAPITAL LETTER IOTA WITH PSILI AND VARIA ≡ 1F38 Ϋ 0300 ♂	1F53	ϒ	GREEK SMALL LETTER UPSILON WITH DASIA AND VARIA ≡ 1F51 ϐ 0300 ♂
1F3B	Ϋ̃	GREEK CAPITAL LETTER IOTA WITH DASIA AND VARIA ≡ 1F39 Ϋ 0300 ♂	1F54	ϒ̂	GREEK SMALL LETTER UPSILON WITH PSILI AND OXIA ≡ 1F50 ϐ 0301 ♂
1F3C	Ϋ̄	GREEK CAPITAL LETTER IOTA WITH PSILI AND OXIA ≡ 1F38 Ϋ 0301 ♂	1F55	ϒ̃	GREEK SMALL LETTER UPSILON WITH DASIA AND OXIA ≡ 1F51 ϐ 0301 ♂
1F3D	Ϋ̅	GREEK CAPITAL LETTER IOTA WITH DASIA AND OXIA ≡ 1F39 Ϋ 0301 ♂	1F56	ϒ̄	GREEK SMALL LETTER UPSILON WITH PSILI AND PERISPOMENI ≡ 1F50 ϐ 0342 ♂
1F3E	Ϋ̅̂	GREEK CAPITAL LETTER IOTA WITH PSILI AND PERISPOMENI ≡ 1F38 Ϋ 0342 ♂	1F57	ϒ̅	GREEK SMALL LETTER UPSILON WITH DASIA AND PERISPOMENI ≡ 1F51 ϐ 0342 ♂
1F3F	Ϋ̅̃	GREEK CAPITAL LETTER IOTA WITH DASIA AND PERISPOMENI ≡ 1F39 Ϋ 0342 ♂	1F58	▨	<reserved>
1F40	ο	GREEK SMALL LETTER OMICRON WITH PSILI ≡ 03BF ο 0313 ♂	1F59	Υ	GREEK CAPITAL LETTER UPSILON WITH DASIA ≡ 03A5 Υ 0314 ♂
1F41	ό	GREEK SMALL LETTER OMICRON WITH DASIA ≡ 03BF ο 0314 ♂	1F5A	▨	<reserved>
1F42	ὀ	GREEK SMALL LETTER OMICRON WITH PSILI AND VARIA ≡ 1F40 ο 0300 ♂	1F5B	Υ̂	GREEK CAPITAL LETTER UPSILON WITH DASIA AND VARIA ≡ 1F59 Υ 0300 ♂
1F43	ὂ	GREEK SMALL LETTER OMICRON WITH DASIA AND VARIA ≡ 1F41 ο 0300 ♂	1F5C	▨	<reserved>
1F44	ὄ	GREEK SMALL LETTER OMICRON WITH PSILI AND OXIA ≡ 1F40 ο 0301 ♂	1F5D	Υ̃	GREEK CAPITAL LETTER UPSILON WITH DASIA AND OXIA ≡ 1F59 Υ 0301 ♂
1F45	ὅ	GREEK SMALL LETTER OMICRON WITH DASIA AND OXIA ≡ 1F41 ο 0301 ♂	1F5E	▨	<reserved>
1F46	▨	<reserved>	1F5F	Υ̅	GREEK CAPITAL LETTER UPSILON WITH DASIA AND PERISPOMENI ≡ 1F59 Υ 0342 ♂
1F47	▨	<reserved>	1F60	ω	GREEK SMALL LETTER OMEGA WITH PSILI ≡ 03C9 ω 0313 ♂
1F48	Ο	GREEK CAPITAL LETTER OMICRON WITH PSILI ≡ 039F Ο 0313 ♂	1F61	ω	GREEK SMALL LETTER OMEGA WITH DASIA ≡ 03C9 ω 0314 ♂
1F49	Ό	GREEK CAPITAL LETTER OMICRON WITH DASIA ≡ 039F Ό 0314 ♂	1F62	ὦ	GREEK SMALL LETTER OMEGA WITH PSILI AND VARIA ≡ 1F60 ω 0300 ♂
			1F63	ὧ	GREEK SMALL LETTER OMEGA WITH DASIA AND VARIA ≡ 1F61 ω 0300 ♂
			1F64	Ὠ	GREEK SMALL LETTER OMEGA WITH PSILI AND OXIA ≡ 1F60 ω 0301 ♂











































1F65	Ω̣	GREEK SMALL LETTER OMEGA WITH DASIA AND OXIA ≡ 1F61 Ω̣ 0301 ϐ	1F80	α̣	GREEK SMALL LETTER ALPHA WITH PSILI AND YPOGEGRAMMENI ≡ 1F00 α̣ 0345 ϑ
1F66	Ω̣̂	GREEK SMALL LETTER OMEGA WITH PSILI AND PERISPOMENI ≡ 1F60 Ω̣̂ 0342 ϑ̂	1F81	α̣̂	GREEK SMALL LETTER ALPHA WITH DASIA AND YPOGEGRAMMENI ≡ 1F01 α̣̂ 0345 ϑ̂
1F67	Ω̣̃	GREEK SMALL LETTER OMEGA WITH DASIA AND PERISPOMENI ≡ 1F61 Ω̣̃ 0342 ϑ̃	1F82	α̣̃	GREEK SMALL LETTER ALPHA WITH PSILI AND VARIA AND YPOGEGRAMMENI ≡ 1F02 α̣̃ 0345 ϑ̃
1F68	Ω̣̄	GREEK CAPITAL LETTER OMEGA WITH PSILI ≡ 03A9 Ω̣̄ 0313 ϐ̄	1F83	ᾱ̣	GREEK SMALL LETTER ALPHA WITH DASIA AND VARIA AND YPOGEGRAMMENI ≡ 1F03 ᾱ̣ 0345 ϑ̄
1F69	Ω̣̅	GREEK CAPITAL LETTER OMEGA WITH DASIA ≡ 03A9 Ω̣̅ 0314 ϐ̅	1F84	α̣̅	GREEK SMALL LETTER ALPHA WITH PSILI AND OXIA AND YPOGEGRAMMENI ≡ 1F04 α̣̅ 0345 ϑ̅
1F6A	Ω̣̆	GREEK CAPITAL LETTER OMEGA WITH PSILI AND VARIA ≡ 1F68 Ω̣̆ 0300 ϐ̆	1F85	ᾰ̣	GREEK SMALL LETTER ALPHA WITH DASIA AND OXIA AND YPOGEGRAMMENI ≡ 1F05 ᾰ̣ 0345 ϑ̆
1F6B	Ω̣̇	GREEK CAPITAL LETTER OMEGA WITH DASIA AND VARIA ≡ 1F69 Ω̣̇ 0300 ϐ̇	1F86	α̣̇	GREEK SMALL LETTER ALPHA WITH PSILI AND PERISPOMENI AND YPOGEGRAMMENI ≡ 1F06 α̣̇ 0345 ϑ̇
1F6C	Ω̣̈	GREEK CAPITAL LETTER OMEGA WITH PSILI AND OXIA ≡ 1F68 Ω̣̈ 0301 ϐ̈	1F87	α̣̈	GREEK SMALL LETTER ALPHA WITH DASIA AND PERISPOMENI AND YPOGEGRAMMENI ≡ 1F07 α̣̈ 0345 ϑ̈
1F6D	Ω̣̉	GREEK CAPITAL LETTER OMEGA WITH DASIA AND OXIA ≡ 1F69 Ω̣̉ 0301 ϐ̉	1F88	Α̣	GREEK CAPITAL LETTER ALPHA WITH PSILI AND PROSGEGRAMMENI ≡ 1F08 Α̣ 0345 ϑ̣
1F6E	Ω̣̊	GREEK CAPITAL LETTER OMEGA WITH PSILI AND PERISPOMENI ≡ 1F68 Ω̣̊ 0342 ϑ̊	1F89	Α̣̂	GREEK CAPITAL LETTER ALPHA WITH DASIA AND PROSGEGRAMMENI ≡ 1F09 Α̣̂ 0345 ϑ̂
1F6F	Ω̣̋	GREEK CAPITAL LETTER OMEGA WITH DASIA AND PERISPOMENI ≡ 1F69 Ω̣̋ 0342 ϑ̋	1F8A	Α̣̃	GREEK CAPITAL LETTER ALPHA WITH PSILI AND VARIA AND PROSGEGRAMMENI ≡ 1F0A Α̣̃ 0345 ϑ̃
1F70	α̣	GREEK SMALL LETTER ALPHA WITH VARIA ≡ 03B1 α̣ 0300 ϐ̣	1F8B	Ᾱ̣	GREEK CAPITAL LETTER ALPHA WITH DASIA AND VARIA AND PROSGEGRAMMENI ≡ 1F0B Ᾱ̣ 0345 ϑ̄
1F71	α̣̂	GREEK SMALL LETTER ALPHA WITH OXIA ≡ 03AC α̣̂ greek small letter alpha with tonos	1F8C	Α̣̅	GREEK CAPITAL LETTER ALPHA WITH PSILI AND OXIA AND PROSGEGRAMMENI ≡ 1F0C Α̣̅ 0345 ϑ̅
1F72	ε̣	GREEK SMALL LETTER EPSILON WITH VARIA ≡ 03B5 ε̣ 0300 ϐ̣	1F8D	Ᾰ̣	GREEK CAPITAL LETTER ALPHA WITH DASIA AND OXIA AND PROSGEGRAMMENI ≡ 1F0D Ᾰ̣ 0345 ϑ̆
1F73	ε̣̂	GREEK SMALL LETTER EPSILON WITH OXIA ≡ 03AD ε̣̂ greek small letter epsilon with tonos	1F8E	Α̣̇	GREEK CAPITAL LETTER ALPHA WITH PSILI AND PERISPOMENI AND PROSGEGRAMMENI ≡ 1F0E Α̣̇ 0345 ϑ̇
1F74	η̣	GREEK SMALL LETTER ETA WITH VARIA ≡ 03B7 η̣ 0300 ϐ̣	1F8F	Α̣̈	GREEK CAPITAL LETTER ALPHA WITH DASIA AND PERISPOMENI AND PROSGEGRAMMENI ≡ 1F0F Α̣̈ 0345 ϑ̈
1F75	η̣̂	GREEK SMALL LETTER ETA WITH OXIA ≡ 03AE η̣̂ greek small letter eta with tonos	1F90	η̣	GREEK SMALL LETTER ETA WITH PSILI AND YPOGEGRAMMENI ≡ 1F20 η̣ 0345 ϑ̣
1F76	ι̣	GREEK SMALL LETTER IOTA WITH VARIA ≡ 03B9 ι̣ 0300 ϐ̣	1F91	η̣̂	GREEK SMALL LETTER ETA WITH DASIA AND YPOGEGRAMMENI ≡ 1F21 η̣̂ 0345 ϑ̂
1F77	ι̣̂	GREEK SMALL LETTER IOTA WITH OXIA ≡ 03AF ι̣̂ greek small letter iota with tonos	1F92	η̣̃	GREEK SMALL LETTER ETA WITH PSILI AND VARIA AND YPOGEGRAMMENI ≡ 1F22 η̣̃ 0345 ϑ̃
1F78	ο̣	GREEK SMALL LETTER OMICRON WITH VARIA ≡ 03BF ο̣ 0300 ϐ̣	1F93	η̣̄	GREEK SMALL LETTER ETA WITH DASIA AND VARIA AND YPOGEGRAMMENI ≡ 1F23 η̣̄ 0345 ϑ̄
1F79	ο̣̂	GREEK SMALL LETTER OMICRON WITH OXIA ≡ 03CC ο̣̂ greek small letter omicron with tonos	1F94	η̣̅	GREEK SMALL LETTER ETA WITH PSILI AND OXIA AND YPOGEGRAMMENI ≡ 1F24 η̣̅ 0345 ϑ̅
1F7A	υ̣	GREEK SMALL LETTER UPSILON WITH VARIA ≡ 03C5 υ̣ 0300 ϐ̣			
1F7B	υ̣̂	GREEK SMALL LETTER UPSILON WITH OXIA ≡ 03CD υ̣̂ greek small letter upsilon with tonos			
1F7C	ω̣	GREEK SMALL LETTER OMEGA WITH VARIA ≡ 03C9 ω̣ 0300 ϐ̣			
1F7D	ω̣̂	GREEK SMALL LETTER OMEGA WITH OXIA ≡ 03CE ω̣̂ greek small letter omega with tonos			
1F7E	⏏	<reserved>			
1F7F	⏏	<reserved>			

1F95	ἥ	GREEK SMALL LETTER ETA WITH DASIA AND OXIA AND YPOGEGRAMMENI ≡ 1F25 ἥ 0345 ◌	1FAA	Ω	GREEK CAPITAL LETTER OMEGA WITH PSILI AND VARIA AND PROSGEGRAMMENI ≡ 1F6A Ω 0345 ◌
1F96	ἥ	GREEK SMALL LETTER ETA WITH PSILI AND PERISPOMENI AND YPOGEGRAMMENI ≡ 1F26 ἥ 0345 ◌	1FAB	Ω	GREEK CAPITAL LETTER OMEGA WITH DASIA AND VARIA AND PROSGEGRAMMENI ≡ 1F6B Ω 0345 ◌
1F97	ἥ	GREEK SMALL LETTER ETA WITH DASIA AND PERISPOMENI AND YPOGEGRAMMENI ≡ 1F27 ἥ 0345 ◌	1FAC	Ω	GREEK CAPITAL LETTER OMEGA WITH PSILI AND OXIA AND PROSGEGRAMMENI ≡ 1F6C Ω 0345 ◌
1F98	Ἡ	GREEK CAPITAL LETTER ETA WITH PSILI AND PROSGEGRAMMENI ≡ 1F28 Ἡ 0345 ◌	1FAD	Ω	GREEK CAPITAL LETTER OMEGA WITH DASIA AND OXIA AND PROSGEGRAMMENI ≡ 1F6D Ω 0345 ◌
1F99	Ἡ	GREEK CAPITAL LETTER ETA WITH DASIA AND PROSGEGRAMMENI ≡ 1F29 Ἡ 0345 ◌	1FAE	Ω	GREEK CAPITAL LETTER OMEGA WITH PSILI AND PERISPOMENI AND PROSGEGRAMMENI ≡ 1F6E Ω 0345 ◌
1F9A	Ἡ	GREEK CAPITAL LETTER ETA WITH PSILI AND VARIA AND PROSGEGRAMMENI ≡ 1F2A Ἡ 0345 ◌	1FAF	Ω	GREEK CAPITAL LETTER OMEGA WITH DASIA AND PERISPOMENI AND PROSGEGRAMMENI ≡ 1F6F Ω 0345 ◌
1F9B	Ἡ	GREEK CAPITAL LETTER ETA WITH DASIA AND VARIA AND PROSGEGRAMMENI ≡ 1F2B Ἡ 0345 ◌	1FB0	ᾱ	GREEK SMALL LETTER ALPHA WITH VRACHY ≡ 03B1 α 0306 ͂
1F9C	Ἡ	GREEK CAPITAL LETTER ETA WITH PSILI AND OXIA AND PROSGEGRAMMENI ≡ 1F2C Ἡ 0345 ◌	1FB1	ᾱ	GREEK SMALL LETTER ALPHA WITH MACRON ≡ 03B1 α 0304 ̄
1F9D	Ἡ	GREEK CAPITAL LETTER ETA WITH DASIA AND OXIA AND PROSGEGRAMMENI ≡ 1F2D Ἡ 0345 ◌	1FB2	ᾱ	GREEK SMALL LETTER ALPHA WITH VARIA AND YPOGEGRAMMENI ≡ 1F70 ᾱ 0345 ◌
1F9E	Ἡ	GREEK CAPITAL LETTER ETA WITH PSILI AND PERISPOMENI AND PROSGEGRAMMENI ≡ 1F2E Ἡ 0345 ◌	1FB3	ᾱ	GREEK SMALL LETTER ALPHA WITH YPOGEGRAMMENI ≡ 03B1 α 0345 ◌
1F9F	Ἡ	GREEK CAPITAL LETTER ETA WITH DASIA AND PERISPOMENI AND PROSGEGRAMMENI ≡ 1F2F Ἡ 0345 ◌	1FB4	ᾱ	GREEK SMALL LETTER ALPHA WITH OXIA AND YPOGEGRAMMENI ≡ 03AC ᾱ 0345 ◌
1FA0	Ω	GREEK SMALL LETTER OMEGA WITH PSILI AND YPOGEGRAMMENI ≡ 1F60 Ω 0345 ◌	1FB5	⏏	<reserved>
1FA1	Ω	GREEK SMALL LETTER OMEGA WITH DASIA AND YPOGEGRAMMENI ≡ 1F61 Ω 0345 ◌	1FB6	ᾱ	GREEK SMALL LETTER ALPHA WITH PERISPOMENI ≡ 03B1 α 0342 ̓
1FA2	Ω	GREEK SMALL LETTER OMEGA WITH PSILI AND VARIA AND YPOGEGRAMMENI ≡ 1F62 Ω 0345 ◌	1FB7	ᾱ	GREEK SMALL LETTER ALPHA WITH PERISPOMENI AND YPOGEGRAMMENI ≡ 1FB6 ᾱ 0345 ◌
1FA3	Ω	GREEK SMALL LETTER OMEGA WITH DASIA AND VARIA AND YPOGEGRAMMENI ≡ 1F63 Ω 0345 ◌	1FB8	Ἀ	GREEK CAPITAL LETTER ALPHA WITH VRACHY ≡ 0391 Α 0306 ͂
1FA4	Ω	GREEK SMALL LETTER OMEGA WITH PSILI AND OXIA AND YPOGEGRAMMENI ≡ 1F64 Ω 0345 ◌	1FB9	Ἀ	GREEK CAPITAL LETTER ALPHA WITH MACRON ≡ 0391 Α 0304 ̄
1FA5	Ω	GREEK SMALL LETTER OMEGA WITH DASIA AND OXIA AND YPOGEGRAMMENI ≡ 1F65 Ω 0345 ◌	1FBA	Ἀ	GREEK CAPITAL LETTER ALPHA WITH VARIA ≡ 0391 Α 0300 ͅ
1FA6	Ω	GREEK SMALL LETTER OMEGA WITH PSILI AND PERISPOMENI AND YPOGEGRAMMENI ≡ 1F66 Ω 0345 ◌	1FBB	Ἀ	GREEK CAPITAL LETTER ALPHA WITH OXIA ≡ 0386 Ἀ greek capital letter alpha with tonos
1FA7	Ω	GREEK SMALL LETTER OMEGA WITH DASIA AND PERISPOMENI AND YPOGEGRAMMENI ≡ 1F67 Ω 0345 ◌	1FBC	Α	GREEK CAPITAL LETTER ALPHA WITH PROSGEGRAMMENI ≡ 0391 Α 0345 ◌
1FA8	Ω	GREEK CAPITAL LETTER OMEGA WITH PSILI AND PROSGEGRAMMENI ≡ 1F68 Ω 0345 ◌	1FBD	΄	GREEK KORONIS ≈ 0020 <sup>SP</sup> 0313 ̀
1FA9	Ω	GREEK CAPITAL LETTER OMEGA WITH DASIA AND PROSGEGRAMMENI ≡ 1F69 Ω 0345 ◌	1FBE	΄	GREEK PROSGEGRAMMENI ≡ 03B9 ι greek small letter iota
			1FBF	΄	GREEK PSILI → 02BC ͂ modifier letter apostrophe ≈ 0020 <sup>SP</sup> 0313 ̀
			1FC0	~	GREEK PERISPOMENI ≈ 0020 <sup>SP</sup> 0342 ̓
			1FC1	͂	GREEK DIALYTIKA AND PERISPOMENI ≡ 00A8 ͂ 0342 ̓
			1FC2	ἥ	GREEK SMALL LETTER ETA WITH VARIA AND YPOGEGRAMMENI ≡ 1F74 ἥ 0345 ◌



























1FC3	η	GREEK SMALL LETTER ETA WITH YPOGEGRAMMENI ≡ 03B7 η 0345 ̣	1FE0	Ϸ	GREEK SMALL LETTER UPSILON WITH VRACHY ≡ 03C5 υ 0306 ̣
1FC4	ή	GREEK SMALL LETTER ETA WITH OXIA AND YPOGEGRAMMENI ≡ 03AE ή 0345 ̣	1FE1	ῶ	GREEK SMALL LETTER UPSILON WITH MACRON ≡ 03C5 υ 0304 ̄
1FC5	⏏	<reserved>	1FE2	ῷ	GREEK SMALL LETTER UPSILON WITH DIALYTIKA AND VARIA ≡ 03CB ῶ 0300 ̂
1FC6	ῆ	GREEK SMALL LETTER ETA WITH PERISPOMENI ≡ 03B7 η 0342 ̂	1FE3	ὀ	GREEK SMALL LETTER UPSILON WITH DIALYTIKA AND OXIA ≡ 03B0 ὀ greek small letter upsilon with dialytika and tonos
1FC7	ῇ	GREEK SMALL LETTER ETA WITH PERISPOMENI AND YPOGEGRAMMENI ≡ 1FC6 ῆ 0345 ̣	1FE4	ῖ	GREEK SMALL LETTER RHO WITH PSILI ≡ 03C1 ρ 0313 ̣
1FC8	Έ	GREEK CAPITAL LETTER EPSILON WITH VARIA ≡ 0395 Ε 0300 ̂	1FE5	ῖ	GREEK SMALL LETTER RHO WITH DASIA ≡ 03C1 ρ 0314 ̣
1FC9	Ε	GREEK CAPITAL LETTER EPSILON WITH OXIA ≡ 0388 Ε greek capital letter epsilon with tonos	1FE6	ῦ	GREEK SMALL LETTER UPSILON WITH PERISPOMENI ≡ 03C5 υ 0342 ̂
1FCA	Ἡ	GREEK CAPITAL LETTER ETA WITH VARIA ≡ 0397 Η 0300 ̂	1FE7	ῷ	GREEK SMALL LETTER UPSILON WITH DIALYTIKA AND PERISPOMENI ≡ 03CB ῶ 0342 ̂
1FCB	Ἡ	GREEK CAPITAL LETTER ETA WITH OXIA ≡ 0389 Ἡ greek capital letter eta with tonos	1FE8	Υ	GREEK CAPITAL LETTER UPSILON WITH VRACHY ≡ 03A5 Υ 0306 ̣
1FCC	Η	GREEK CAPITAL LETTER ETA WITH PROSGEGRAMMENI ≡ 0397 Η 0345 ̣	1FE9	Υ	GREEK CAPITAL LETTER UPSILON WITH MACRON ≡ 03A5 Υ 0304 ̄
1FCD	Ψ	GREEK PSILI AND VARIA ≡ 1FBF Ψ 0300 ̂	1FEA	Υ	GREEK CAPITAL LETTER UPSILON WITH VARIA ≡ 03A5 Υ 0300 ̂
1FCE	Ψ	GREEK PSILI AND OXIA ≡ 1FBF Ψ 0301 ̣	1FEB	Υ	GREEK CAPITAL LETTER UPSILON WITH OXIA ≡ 038E Υ greek capital letter upsilon with tonos
1FCF	Ψ	GREEK PSILI AND PERISPOMENI ≡ 1FBF Ψ 0342 ̂	1FEC	Ρ	GREEK CAPITAL LETTER RHO WITH DASIA ≡ 03A1 Ρ 0314 ̣
1FD0	ι	GREEK SMALL LETTER IOTA WITH VRACHY ≡ 03B9 ι 0306 ̣	1FED	Ψ	GREEK DIALYTIKA AND VARIA ≡ 00A8 Ψ 0300 ̂
1FD1	ῑ	GREEK SMALL LETTER IOTA WITH MACRON ≡ 03B9 ι 0304 ̄	1FEE	Ψ	GREEK DIALYTIKA AND OXIA ≡ 0385 Ψ greek dialytika tonos
1FD2	ῒ	GREEK SMALL LETTER IOTA WITH DIALYTIKA AND VARIA ≡ 03CA ῑ 0300 ̂	1FEF	Ψ	GREEK VARIA ≡ 0060 Ψ grave accent
1FD3	ΐ	GREEK SMALL LETTER IOTA WITH DIALYTIKA AND OXIA ≡ 0390 ῑ greek small letter iota with dialytika and tonos	1FF0	⏏	<reserved>
1FD4	⏏	<reserved>	1FF1	⏏	<reserved>
1FD5	⏏	<reserved>	1FF2	Ϸ	GREEK SMALL LETTER OMEGA WITH VARIA AND YPOGEGRAMMENI ≡ 1F7C Ϸ 0345 ̣
1FD6	ῖ	GREEK SMALL LETTER IOTA WITH PERISPOMENI ≡ 03B9 ι 0342 ̂	1FF3	Ϸ	GREEK SMALL LETTER OMEGA WITH YPOGEGRAMMENI ≡ 03C9 ω 0345 ̣
1FD7	ῗ	GREEK SMALL LETTER IOTA WITH DIALYTIKA AND PERISPOMENI ≡ 03CA ῖ 0342 ̂	1FF4	Ϸ	GREEK SMALL LETTER OMEGA WITH OXIA AND YPOGEGRAMMENI ≡ 03CE ῶ 0345 ̣
1FD8	Ϊ	GREEK CAPITAL LETTER IOTA WITH VRACHY ≡ 0399 Ι 0306 ̣	1FF5	⏏	<reserved>
1FD9	Ὶ	GREEK CAPITAL LETTER IOTA WITH MACRON ≡ 0399 Ι 0304 ̄	1FF6	ῶ	GREEK SMALL LETTER OMEGA WITH PERISPOMENI ≡ 03C9 ω 0342 ̂
1FDA	Ϊ	GREEK CAPITAL LETTER IOTA WITH VARIA ≡ 0399 Ι 0300 ̂	1FF7	ῶ	GREEK SMALL LETTER OMEGA WITH PERISPOMENI AND YPOGEGRAMMENI ≡ 1FF6 ῶ 0345 ̣
1FDB	Ὶ	GREEK CAPITAL LETTER IOTA WITH OXIA ≡ 038A Ὶ greek capital letter iota with tonos	1FF8	Ο	GREEK CAPITAL LETTER OMICRON WITH VARIA ≡ 039F Ο 0300 ̂
1FDC	⏏	<reserved>	1FF9	Ο	GREEK CAPITAL LETTER OMICRON WITH OXIA ≡ 038C Ο greek capital letter omicron with tonos
1FDD	Ψ	GREEK DASIA AND VARIA ≡ 1FFE Ψ 0300 ̂	1FFA	Ω	GREEK CAPITAL LETTER OMEGA WITH VARIA ≡ 03A9 Ω 0300 ̂
1FDE	Ψ	GREEK DASIA AND OXIA ≡ 1FFE Ψ 0301 ̣			
1FDF	Ψ	GREEK DASIA AND PERISPOMENI ≡ 1FFE Ψ 0342 ̂			

- 1FFB Ω GREEK CAPITAL LETTER OMEGA WITH OXIA  
 ≡ 038F Ω greek capital letter omega with tonos
- 1FFC Ω GREEK CAPITAL LETTER OMEGA WITH  
 PROSGEGRAMMENI  
 ≡ 03A9 Ω 0345 ϖ
- 1FFD ´ GREEK OXIA  
 ≡ 00B4 ´ acute accent
- 1FFE ` GREEK DASIA  
 → 02BD ´ modifier letter reversed comma  
 ≈ 0020 SP 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	7 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 invisible word separation and 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 NNBSP  
• 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 ˘ **CHARACTER TIE**  
 = z notation sequence concatenation  
 → 2322 ˘ frown
- 2041 ^ **CARET INSERTION POINT**  
 • proofreader's mark: insert here  
 → 22CC ^ 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 ƿ **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 ˘ **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  
 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 mm sp **MEDIUM MATHEMATICAL SPACE**  
 • abbreviated MMSP  
 • four-eightieths of an em  
 ≈ 0020 sp 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	h 2095
6	6 2076	6 2086	k 2096
7	7 2077	7 2087	l 2097
8	8 2078	8 2088	m 2098
9	9 2079	9 2089	n 2099
A	+207A	+208A	p 209A
B	— 207B	— 208B	s 209B
C	= 207C	= 208C	t 209C
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

**UPA subscripts**

2095	<sub>h</sub>	LATIN SUBSCRIPT SMALL LETTER H
2096	<sub>k</sub>	LATIN SUBSCRIPT SMALL LETTER K
2097	<sub>l</sub>	LATIN SUBSCRIPT SMALL LETTER L
2098	<sub>m</sub>	LATIN SUBSCRIPT SMALL LETTER M
2099	<sub>n</sub>	LATIN SUBSCRIPT SMALL LETTER N
209A	<sub>p</sub>	LATIN SUBSCRIPT SMALL LETTER P
209B	<sub>s</sub>	LATIN SUBSCRIPT SMALL LETTER S
209C	<sub>t</sub>	LATIN SUBSCRIPT SMALL LETTER T

	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 f	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 𠄎	cjk unified ideograph-5186
	→ 5706 圓	cjk unified ideograph-5706
	→ 5713 圓	cjk unified ideograph-5713
	→ FDFC ৳	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, tögrög
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 ‘¢’ or like C with a short vertical stroke through the upper arm
	→ 00A2 ¢	cent sign
	→ 023B ¢	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 1 right ceiling
20E8	◌̱	COMBINING TRIPLE UNDERDOT
20E9	◌̲	COMBINING WIDE BRIDGE ABOVE
		= contraction operator
		• extends the full width of the base character
		→ 0346 ⅈ 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

	210	211	212	213	214
0	<i>a/c</i> 2100	<i>J</i> 2110	SM 2120	<i>E</i> 2130	$\Sigma$ 2140
1	<i>a/s</i> 2101	<i>J</i> 2111	TEL 2121	<i>F</i> 2131	<i>G</i> 2141
2	$\mathbb{C}$ 2102	<i>L</i> 2112	TM 2122	$\mathbb{H}$ 2132	$\mathbb{I}$ 2142
3	$^{\circ}\text{C}$ 2103	<i>l</i> 2113	<i>V</i> 2123	<i>M</i> 2133	$\mathbb{J}$ 2143
4	$\text{¢}$ 2104	$\text{₤}$ 2114	$\mathbb{Z}$ 2124	<i>e</i> 2134	$\mathbb{A}$ 2144
5	<i>%</i> 2105	$\mathbb{N}$ 2115	$\mathbb{Z}$ 2125	$\mathbb{X}$ 2135	$\mathbb{D}$ 2145
6	<i>%u</i> 2106	$\text{N}_2$ 2116	$\Omega$ 2126	$\mathbb{C}$ 2136	<i>d</i> 2146
7	$\mathbb{E}$ 2107	$\text{®}$ 2117	$\mathbb{U}$ 2127	$\mathbb{I}$ 2137	<i>e</i> 2147
8	$\mathbb{D}$ 2108	$\mathbb{S}$ 2118	$\mathbb{Z}$ 2128	$\mathbb{I}$ 2138	<i>i</i> 2148
9	$^{\circ}\text{F}$ 2109	$\mathbb{P}$ 2119	$\mathbb{I}$ 2129	<i>i</i> 2139	<i>j</i> 2149
A	<i>g</i> 210A	$\mathbb{Q}$ 211A	$\mathbb{K}$ 212A	$\mathbb{O}$ 213A	$\mathbb{P}$ 214A
B	<i>H</i> 210B	<i>R</i> 211B	$\text{Å}$ 212B	FAX 213B	$\mathbb{S}$ 214B
C	$\mathbb{H}$ 210C	$\mathbb{R}$ 211C	$\mathbb{B}$ 212C	$\pi$ 213C	$\mathbb{P}$ 214C
D	$\mathbb{H}$ 210D	$\mathbb{R}$ 211D	$\mathbb{C}$ 212D	$\gamma$ 213D	A/s 214D
E	<i>h</i> 210E	$\mathbb{R}$ 211E	<i>e</i> 212E	$\mathbb{I}$ 213E	$\mathbb{H}$ 214E
F	<i>h</i> 210F	$\mathbb{R}$ 211F	<i>e</i> 212F	$\mathbb{I}$ 213F	$\mathbb{L}$ 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	ℰ	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	h	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	ћ	PLANCK CONSTANT OVER TWO PI → 045B ћ 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 ℓ 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	ℜ	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	ℤ	DOUBLE-STRUCK CAPITAL Z = the set of integers ≈ <font> 005A Z latin capital letter z
2125	℥	OUNCE SIGN → 021D 3 latin small letter yogh
2126	Ω	OHM SIGN • SI unit of resistance, named after G. S. Ohm, German physicist • preferred representation is 03A9 Ω → 260A Ω ascending node ≡ 03A9 Ω greek capital letter omega

- 2127  $\Omega$  **INVERTED OHM SIGN**  
= mho  
• archaic unit of conductance (= the SI unit siemens)  
• typographically a turned greek capital letter omega  
→ 01B1  $\Omega$  latin capital letter upsilon  
→ 03A9  $\Omega$  greek capital letter omega  
→ 260B  $\Omega$  descending node
- 2128  $\mathcal{Z}$  **BLACK-LETTER CAPITAL Z**  
≈ <font> 005A **Z** latin capital letter z
- 2129  $\iota$  **TURNED GREEK SMALL LETTER IOTA**  
• unique element fulfilling a description (logic)  
→ 03B9  $\iota$  greek small letter iota
- 212A **K** **KELVIN SIGN**  
≡ 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  $\text{\AA}$   
≡ 00C5  $\text{\AA}$  latin capital letter a with ring above
- 212C  $\mathcal{B}$  **SCRIPT CAPITAL B**  
= Bernoulli function  
≈ <font> 0042 **B** latin capital letter b
- 212D  $\mathcal{C}$  **BLACK-LETTER CAPITAL C**  
≈ <font> 0043 **C** latin capital letter c
- 212E **e** **ESTIMATED SYMBOL**  
• used in European packaging  
→ 0065 **e** latin small letter e
- 212F  $e$  **SCRIPT SMALL E**  
= error  
= natural exponent  
≈ <font> 0065 **e** latin small letter e
- 2130  $\mathcal{E}$  **SCRIPT CAPITAL E**  
= emf (electromotive force)  
≈ <font> 0045 **E** latin capital letter e
- 2131  $\mathcal{F}$  **SCRIPT CAPITAL F**  
= Fourier transform  
≈ <font> 0046 **F** latin capital letter f
- 2132  $\mathcal{H}$  **TURNED CAPITAL F**  
= Claudian digamma inversum  
• lowercase is 214E  $\mathfrak{h}$   
→ 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  
≈ <font> 004D **M** latin capital letter m
- 2134  $\mathcal{o}$  **SCRIPT SMALL O**  
= order, of inferior order to  
≈ <font> 006F **o** latin small letter o

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

- 2135  $\aleph$  **ALEF SYMBOL**  
= first transfinite cardinal (countable)  
≈ 05D0  $\aleph$  hebrew letter alef
- 2136  $\beth$  **BET SYMBOL**  
= second transfinite cardinal (the continuum)  
≈ 05D1  $\beth$  hebrew letter bet

- 2137  $\aleph$  **GIMEL SYMBOL**  
= third transfinite cardinal (functions of a real variable)  
≈ 05D2  $\aleph$  hebrew letter gimel
- 2138  $\daleth$  **DALET SYMBOL**  
= fourth transfinite cardinal  
≈ 05D3  $\daleth$  hebrew letter dalet

**Additional letterlike symbols**

- 2139 **i** **INFORMATION SOURCE**  
• intended for use with 20DD  $\odot$   
≈ <font> 0069 **i** latin small letter i
- 213A  $\mathcal{Q}$  **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  
≈ 0046 **F** 0041 **A** 0058 **X**
- 213C  $\pi$  **DOUBLE-STRUCK SMALL PI**  
≈ <font> 03C0  $\pi$  greek small letter pi
- 213D  $\gamma$  **DOUBLE-STRUCK SMALL GAMMA**  
≈ <font> 03B3  $\gamma$  greek small letter gamma
- 213E  $\Gamma$  **DOUBLE-STRUCK CAPITAL GAMMA**  
≈ <font> 0393  $\Gamma$  greek capital letter gamma
- 213F  $\Pi$  **DOUBLE-STRUCK CAPITAL PI**  
≈ <font> 03A0  $\Pi$  greek capital letter pi

**Double-struck large operator**

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

**Additional letterlike symbols**

- 2141  $\mathcal{G}$  **TURNED SANS-SERIF CAPITAL G**  
= game
- 2142  $\mathcal{L}$  **TURNED SANS-SERIF CAPITAL L**
- 2143  $\mathcal{J}$  **REVERSED SANS-SERIF CAPITAL L**
- 2144  $\mathcal{Y}$  **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  
≈ <font> 0044 **D** latin capital letter d
- 2146  $\mathcal{d}$  **DOUBLE-STRUCK ITALIC SMALL D**  
• sometimes used for the differential  
≈ <font> 0064 **d** latin small letter d
- 2147  $\mathcal{e}$  **DOUBLE-STRUCK ITALIC SMALL E**  
• sometimes used for the natural exponent  
≈ <font> 0065 **e** latin small letter e
- 2148  $\mathcal{i}$  **DOUBLE-STRUCK ITALIC SMALL I**  
• sometimes used for the imaginary unit  
≈ <font> 0069 **i** latin small letter i
- 2149  $\mathcal{j}$  **DOUBLE-STRUCK ITALIC SMALL J**  
• sometimes used for the imaginary unit  
≈ <font> 006A **j** latin small letter j

**Additional letterlike symbols**

- 214A  $\mathcal{P}$  **PROPERTY LINE**
- 214B  $\mathfrak{A}$  **TURNED AMPERSAND**  
• used in linear logic  
→ 0026 **&** ampersand



- 214C ꝑ PER SIGN  
 • abbreviates the word ‘per’
- 214D ꝑ AKTIESELSKAB  
 → 2101 ꝑ addressed to the subject

**Lowercase Claudian letter**

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

- 214E ꝑ TURNED SMALL F  
 • uppercase is 2132 ꝑ  
 → 03DD ꝑ greek small letter digamma

**Biblical editorial symbol**

- 214F ꝑ 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	ↄ	LATIN SMALL LETTER REVERSED C → 037B ↄ greek small reversed lunate sigma symbol
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**Archaic Roman numerals**

- 2185    **Ϟ**    ROMAN NUMERAL SIX LATE FORM  
          → 03DA Ϟ greek letter stigma
- 2186    **↯**    ROMAN NUMERAL FIFTY EARLY FORM  
          → 16CE ↯ runic letter z  
          → 2193 ↯ downwards arrow
- 2187    **ↀ**    ROMAN NUMERAL FIFTY THOUSAND
- 2188    **ↁ**    ROMAN NUMERAL ONE HUNDRED THOUSAND

**Fraction**

- 2189    **⅓**    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 = z notation partial function
21F8	⇒	RIGHTWARDS ARROW WITH VERTICAL STROKE = z notation partial relation
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

	220	221	222	223	224	225	226	227	228	229	22A	22B	22C	22D	22E	22F
0	 2200	 2210	 2220	 2230	 2240	 2250	 2260	 2270	 2280	 2290	 22A0	 22B0	 22C0	 22D0	 22E0	 22F0
1	 2201	 2211	 2221	 2231	 2241	 2251	 2261	 2271	 2281	 2291	 22A1	 22B1	 22C1	 22D1	 22E1	 22F1
2	 2202	 2212	 2222	 2232	 2242	 2252	 2262	 2272	 2282	 2292	 22A2	 22B2	 22C2	 22D2	 22E2	 22F2
3	 2203	 2213	 2223	 2233	 2243	 2253	 2263	 2273	 2283	 2293	 22A3	 22B3	 22C3	 22D3	 22E3	 22F3
4	 2204	 2214	 2224	 2234	 2244	 2254	 2264	 2274	 2284	 2294	 22A4	 22B4	 22C4	 22D4	 22E4	 22F4
5	 2205	 2215	 2225	 2235	 2245	 2255	 2265	 2275	 2285	 2295	 22A5	 22B5	 22C5	 22D5	 22E5	 22F5
6	 2206	 2216	 2226	 2236	 2246	 2256	 2266	 2276	 2286	 2296	 22A6	 22B6	 22C6	 22D6	 22E6	 22F6
7	 2207	 2217	 2227	 2237	 2247	 2257	 2267	 2277	 2287	 2297	 22A7	 22B7	 22C7	 22D7	 22E7	 22F7
8	 2208	 2218	 2228	 2238	 2248	 2258	 2268	 2278	 2288	 2298	 22A8	 22B8	 22C8	 22D8	 22E8	 22F8
9	 2209	 2219	 2229	 2239	 2249	 2259	 2269	 2279	 2289	 2299	 22A9	 22B9	 22C9	 22D9	 22E9	 22F9
A	 220A	 221A	 222A	 223A	 224A	 225A	 226A	 227A	 228A	 229A	 22AA	 22BA	 22CA	 22DA	 22EA	 22FA
B	 220B	 221B	 222B	 223B	 224B	 225B	 226B	 227B	 228B	 229B	 22AB	 22BB	 22CB	 22DB	 22EB	 22FB
C	 220C	 221C	 222C	 223C	 224C	 225C	 226C	 227C	 228C	 229C	 22AC	 22BC	 22CC	 22DC	 22EC	 22FC
D	 220D	 221D	 222D	 223D	 224D	 225D	 226D	 227D	 228D	 229D	 22AD	 22BD	 22CD	 22DD	 22ED	 22FD
E	 220E	 221E	 222E	 223E	 224E	 225E	 226E	 227E	 228E	 229E	 22AE	 22BE	 22CE	 22DE	 22EE	 22FE
F	 220F	 221F	 222F	 223F	 224F	 225F	 226F	 227F	 228F	 229F	 22AF	 22BF	 22CF	 22DF	 22EF	 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”  
→ 00D8  $\emptyset$  latin capital letter o with stroke  
→ 2300  $\emptyset$  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  $\Delta$  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  $\nexists$  DOES NOT CONTAIN AS MEMBER  
≡ 220B  $\ni$  0338  $\not\ni$
- 220D  $\ni$  SMALL CONTAINS AS MEMBER  
→ 03F6  $\ni$  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  $\dot{+}$  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  $\bullet$  BULLET OPERATOR  
→ 00B7  $\bullet$  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  $\sphericalangle$  MEASURED ANGLE
- 2222  $\sphericalangle$  SPHERICAL ANGLE  
= angle arc

**Operators**

- 2223  $|$  DIVIDES  
= such that  
= APL stile  
→ 007C  $|$  vertical line  
→ 01C0  $|$  latin letter dental click
- 2224  $\nmid$  DOES NOT DIVIDE  
≡ 2223  $|$  0338  $\not|$
- 2225  $\parallel$  PARALLEL TO  
→ 01C1  $\parallel$  latin letter lateral click  
→ 2016  $\parallel$  double vertical line
- 2226  $\nparallel$  NOT PARALLEL TO  
≡ 2225  $\parallel$  0338  $\not\parallel$

**Logical and set operators**

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

2228  $\vee$  LOGICAL OR  
= vee, disjunction  
→ 22C1  $\vee$  n-ary logical or  
→ 2304  $\downarrow$  down arrowhead

2229  $\cap$  INTERSECTION  
= cap, hat  
→ 22C2  $\cap$  n-ary intersection

222A  $\cup$  UNION  
= cup  
→ 22C3  $\cup$  n-ary union

**Integrals**

222B  $\int$  INTEGRAL  
→ 0283  $\int$  latin small letter esh

222C  $\iint$  DOUBLE INTEGRAL  
 $\approx$  222B  $\int$  222B  $\int$

222D  $\iiint$  TRIPLE INTEGRAL  
→ 2A0C  $\iiint$  quadruple integral operator  
 $\approx$  222B  $\int$  222B  $\int$  222B  $\int$

222E  $\oint$  CONTOUR INTEGRAL  
→ 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  $\int\limits^{\circlearrowleft}$  COUNTERCLOCKWISE 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  
→ 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  $-:$  EXCESS

**Operator**

223A  $\equiv$  GEOMETRIC PROPORTION

**Relations**

223B  $\sim$  HOMOTHETIC  
→ 2A6B  $\sim$  tilde operator with rising dots

223C  $\sim$  TILDE OPERATOR  
= varies with (proportional to)  
= difference between  
= similar to  
= not  
= cycle  
= APL tilde  
→ 007E  $\sim$  tilde  
→ 00AC  $\neg$  not sign  
→ 02DC  $\small{\sim}$  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  $\not\sim$

2242  $\approx$  MINUS TILDE

2243  $\approx$  ASYMPTOTICALLY EQUAL TO

2244  $\napprox$  NOT ASYMPTOTICALLY EQUAL TO  
 $\equiv$  2243  $\approx$  0338  $\not\approx$

2245  $\approx$  APPROXIMATELY EQUAL TO

2246  $\approx$  APPROXIMATELY BUT NOT ACTUALLY EQUAL TO

2247  $\napprox$  NEITHER APPROXIMATELY NOR ACTUALLY EQUAL TO  
 $\equiv$  2245  $\approx$  0338  $\not\approx$

2248  $\approx$  ALMOST EQUAL TO  
= asymptotic to

2249  $\napprox$  NOT ALMOST EQUAL TO  
 $\equiv$  2248  $\approx$  0338  $\not\approx$

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  $\approx$  EQUIVALENT TO

224E  $\approx$  GEOMETRICALLY EQUIVALENT TO

224F  $\approx$  DIFFERENCE BETWEEN

2250  $\approx$  APPROACHES THE LIMIT

2251  $\approx$  GEOMETRICALLY EQUAL TO

2252  $\approx$  APPROXIMATELY EQUAL TO OR THE IMAGE OF  
= nearly equals

2253  $\approx$  IMAGE OF OR APPROXIMATELY EQUAL TO

2254  $\approx$  COLON EQUALS

2255  $\approx$  EQUALS COLON

2256  $\approx$  RING IN EQUAL TO

2257  $\approx$  RING EQUAL TO  
= approximately equal to

2258  $\approx$  CORRESPONDS TO

2259  $\approx$  ESTIMATES  
= corresponds to

225A  $\approx$  EQUIANGULAR TO

225B  $\approx$  STAR EQUALS

225C  $\approx$  DELTA EQUAL TO  
= equiangular  
= equal to by definition

225D  $\approx$  EQUAL TO BY DEFINITION

225E  $\approx$  MEASURED BY

225F  $\approx$  QUESTIONED EQUAL TO

2260  $\napprox$  NOT EQUAL TO  
→ 003D  $=$  equals sign  
→ 01C2  $\ddagger$  latin letter alveolar click  
 $\equiv$  003D  $=$  0338  $\not\approx$

2261  $\approx$  IDENTICAL TO

2262	$\neq$	NOT IDENTICAL TO $\equiv 2261 \equiv 0338 \not\equiv$
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 $\rightarrow 00AB \ll$ left-pointing double angle quotation mark
226B	$\gg$	MUCH GREATER-THAN $\rightarrow 00BB \gg$ right-pointing double angle quotation mark
226C	$\nless$	BETWEEN = plaintiff, quantic
226D	$\nless$	NOT EQUIVALENT TO $\equiv 224D \nless 0338 \not\equiv$
226E	$\nless$	NOT LESS-THAN $\equiv 003C < 0338 \not\equiv$
226F	$\nless$	NOT GREATER-THAN $\equiv 003E > 0338 \not\equiv$
2270	$\nless$	NEITHER LESS-THAN NOR EQUAL TO $\equiv 2264 \leq 0338 \not\equiv$
2271	$\nless$	NEITHER GREATER-THAN NOR EQUAL TO $\equiv 2265 \geq 0338 \not\equiv$
2272	$\nless$	LESS-THAN OR EQUIVALENT TO
2273	$\nless$	GREATER-THAN OR EQUIVALENT TO
2274	$\nless$	NEITHER LESS-THAN NOR EQUIVALENT TO $\equiv 2272 \leq 0338 \not\equiv$
2275	$\nless$	NEITHER GREATER-THAN NOR EQUIVALENT TO $\equiv 2273 \geq 0338 \not\equiv$
2276	$\nless$	LESS-THAN OR GREATER-THAN
2277	$\nless$	GREATER-THAN OR LESS-THAN
2278	$\nless$	NEITHER LESS-THAN NOR GREATER-THAN $\equiv 2276 \leq 0338 \not\equiv$
2279	$\nless$	NEITHER GREATER-THAN NOR LESS-THAN $\equiv 2277 \geq 0338 \not\equiv$
227A	$\prec$	PRECEDES = lower rank than $\rightarrow 22B0 \prec$ precedes under relation
227B	$\succ$	SUCCEEDS = higher rank than $\rightarrow 22B1 \succ$ succeeds under relation
227C	$\nless$	PRECEDES OR EQUAL TO
227D	$\nless$	SUCCEEDS OR EQUAL TO
227E	$\nless$	PRECEDES OR EQUIVALENT TO
227F	$\nless$	SUCCEEDS OR EQUIVALENT TO
2280	$\nless$	DOES NOT PRECEDE $\equiv 227A < 0338 \not\equiv$
2281	$\nless$	DOES NOT SUCCEED $\equiv 227B > 0338 \not\equiv$
2282	$\subset$	SUBSET OF = included in set $\rightarrow 2E26 \subset$ left sideways u bracket
2283	$\supset$	SUPERSET OF = includes in set $\rightarrow 2E27 \supset$ right sideways u bracket
2284	$\nless$	NOT A SUBSET OF $\equiv 2282 \subset 0338 \not\equiv$

2285	$\nless$	NOT A SUPERSET OF $\equiv 2283 \supset 0338 \not\equiv$
2286	$\subseteq$	SUBSET OF OR EQUAL TO
2287	$\supseteq$	SUPERSET OF OR EQUAL TO
2288	$\nless$	NEITHER A SUBSET OF NOR EQUAL TO $\equiv 2286 \subseteq 0338 \not\equiv$
2289	$\nless$	NEITHER A SUPERSET OF NOR EQUAL TO $\equiv 2287 \supseteq 0338 \not\equiv$
228A	$\subsetneq$	SUBSET OF WITH NOT EQUAL TO
228B	$\supsetneq$	SUPERSET OF WITH NOT EQUAL TO

**Operators**

228C	$\cup$	MULTISET
228D	$\cup$	MULTISET MULTIPLICATION $\rightarrow 2A03 \cup$ n-ary union operator with dot $\rightarrow 2A40 \cap$ intersection with dot
228E	$\cup$	MULTISET UNION = z notation bag addition $\rightarrow 2A04 \cup$ n-ary union operator with plus

**Relations**

228F	$\square$	SQUARE IMAGE OF
2290	$\square$	SQUARE ORIGINAL OF
2291	$\square$	SQUARE IMAGE OF OR EQUAL TO
2292	$\square$	SQUARE ORIGINAL OF OR EQUAL TO

**Operators**

2293	$\sqcap$	SQUARE CAP $\rightarrow 2A05 \sqcap$ n-ary square intersection operator
2294	$\sqcup$	SQUARE CUP
2295	$\oplus$	CIRCLED PLUS = direct sum = vector pointing into page $\rightarrow 2641 \oplus$ earth $\rightarrow 2A01 \oplus$ n-ary circled plus operator
2296	$\ominus$	CIRCLED MINUS = symmetric difference $\rightarrow 29B5 \ominus$ circle with horizontal bar
2297	$\otimes$	CIRCLED TIMES = tensor product = vector pointing into page $\rightarrow 2A02 \otimes$ n-ary circled times operator
2298	$\oslash$	CIRCLED DIVISION SLASH
2299	$\odot$	CIRCLED DOT OPERATOR = direct product = vector pointing out of page $\rightarrow 0298 \odot$ latin letter bilabial click $\rightarrow 2609 \odot$ sun $\rightarrow 2A00 \odot$ n-ary circled dot operator
229A	$\odot$	CIRCLED RING OPERATOR $\rightarrow 233E \odot$ apl functional symbol circle jot $\rightarrow 25CE \odot$ bullseye
229B	$\circledast$	CIRCLED ASTERISK OPERATOR $\rightarrow 235F \circledast$ apl functional symbol circle star
229C	$\equiv$	CIRCLED EQUALS
229D	$\equiv$	CIRCLED DASH
229E	$\boxplus$	SQUARED PLUS
229F	$\boxminus$	SQUARED MINUS
22A0	$\boxtimes$	SQUARED TIMES $\rightarrow 2612 \boxtimes$ ballot box with x $\rightarrow 26DD \boxtimes$ squared saltire
22A1	$\boxdot$	SQUARED DOT OPERATOR

- 22A2  $\vdash$  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  $\Vdash$  TRIPLE VERTICAL BAR RIGHT TURNSTILE
- 22AB  $\Vdash$  DOUBLE VERTICAL BAR DOUBLE RIGHT TURNSTILE
- 22AC  $\nvdash$  DOES NOT PROVE  
≡ 22A2  $\vdash$  0338  $\not\vdash$
- 22AD  $\nmodels$  NOT TRUE  
≡ 22A8  $\models$  0338  $\not\models$
- 22AE  $\nVdash$  DOES NOT FORCE  
≡ 22A9  $\Vdash$  0338  $\not\Vdash$
- 22AF  $\nVdash$  NEGATED DOUBLE VERTICAL BAR DOUBLE RIGHT TURNSTILE  
≡ 22AB  $\Vdash$  0338  $\not\Vdash$
- 22B0  $\prec$  PRECEDES UNDER RELATION  
→ 227A  $<$  precedes
- 22B1  $\succ$  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  $\rightsquigarrow$  ORIGINAL OF
- 22B7  $\mapsto$  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  $\lrcorner$  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  $\div$  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  $\rhd$  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  $\leqdot$  LESS-THAN WITH DOT
- 22D7  $\geqdot$  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  $\gtrless$  GREATER-THAN EQUAL TO OR LESS-THAN

22DC	$\approx$	EQUAL TO OR LESS-THAN
22DD	$\succ$	EQUAL TO OR GREATER-THAN
22DE	$\preceq$	EQUAL TO OR PRECEDES
22DF	$\succcurlyeq$	EQUAL TO OR SUCCEEDS
22E0	$\npreceq$	DOES NOT PRECEDE OR EQUAL $\equiv 227C \leq 0338 \not\phi$
22E1	$\nsucccurlyeq$	DOES NOT SUCCEED OR EQUAL $\equiv 227D \geq 0338 \not\phi$
22E2	$\nsubseteq$	NOT SQUARE IMAGE OF OR EQUAL TO $\equiv 2291 \sqsubseteq 0338 \not\phi$
22E3	$\ncong$	NOT SQUARE ORIGINAL OF OR EQUAL TO $\equiv 2292 \sqsupseteq 0338 \not\phi$
22E4	$\sqsubset$	SQUARE IMAGE OF OR NOT EQUAL TO
22E5	$\sqsupset$	SQUARE ORIGINAL OF OR NOT EQUAL TO
22E6	$\nless$	LESS-THAN BUT NOT EQUIVALENT TO
22E7	$\ngtr$	GREATER-THAN BUT NOT EQUIVALENT TO
22E8	$\nprec$	PRECEDES BUT NOT EQUIVALENT TO
22E9	$\nsucc$	SUCCEEDS BUT NOT EQUIVALENT TO
22EA	$\ntriangleleft$	NOT NORMAL SUBGROUP OF $\equiv 22B2 \triangleleft 0338 \not\phi$
22EB	$\ntriangleleft\!\!\!\lhd$	DOES NOT CONTAIN AS NORMAL SUBGROUP $\equiv 22B3 \triangleright 0338 \not\phi$
22EC	$\ntrianglelefteq$	NOT NORMAL SUBGROUP OF OR EQUAL TO $\equiv 22B4 \trianglelefteq 0338 \not\phi$
22ED	$\ntrianglelefteq\!\!\!\lhd$	DOES NOT CONTAIN AS NORMAL SUBGROUP OR EQUAL $\equiv 22B5 \trianglerighteq 0338 \not\phi$
22EE	$\vdots$	VERTICAL ELLIPSIS • these four ellipses are used for matrix row/column elision → 205D $\vdots$ tricolon → 2026 ... horizontal ellipsis → FE19 $\vdots$ presentation form for vertical horizontal ellipsis
22EF	$\cdots$	MIDLINE HORIZONTAL ELLIPSIS
22F0	$\nearrow$	UP RIGHT DIAGONAL ELLIPSIS
22F1	$\searrow$	DOWN RIGHT DIAGONAL ELLIPSIS
22F2	$\inlrcorner$	ELEMENT OF WITH LONG HORIZONTAL STROKE
22F3	$\E$	ELEMENT OF WITH VERTICAL BAR AT END OF HORIZONTAL STROKE
22F4	$\e$	SMALL ELEMENT OF WITH VERTICAL BAR AT END OF HORIZONTAL STROKE
22F5	$\dot{\in}$	ELEMENT OF WITH DOT ABOVE
22F6	$\overline{\in}$	ELEMENT OF WITH OVERBAR
22F7	$\overline{\e}$	SMALL ELEMENT OF WITH OVERBAR
22F8	$\underline{\in}$	ELEMENT OF WITH UNDERBAR
22F9	$\E$	ELEMENT OF WITH TWO HORIZONTAL STROKES
22FA	$\ni$	CONTAINS WITH LONG HORIZONTAL STROKE
22FB	$\ni$	CONTAINS WITH VERTICAL BAR AT END OF HORIZONTAL STROKE
22FC	$\ni$	SMALL CONTAINS WITH VERTICAL BAR AT END OF HORIZONTAL STROKE
22FD	$\overline{\ni}$	CONTAINS WITH OVERBAR
22FE	$\overline{\ni}$	SMALL CONTAINS WITH OVERBAR
22FF	$\E$	Z NOTATION BAG MEMBERSHIP

	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 ⌵ nad
- 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  
→ 23F0 ⌚ alarm clock  
→ 23F1 ⌚ stopwatch  
→ 23F2 ⌚ timer clock  
→ 1F550 ⌚ clock face one o'clock
- 231B ⌚ HOURGLASS  
= alchemical symbol for hour

**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 } 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 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  
 → 29B0 ∅ 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 Δ 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 Δ 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 QUAD 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		APL FUNCTIONAL SYMBOL IOTA
2374		APL FUNCTIONAL SYMBOL RHO
2375		APL FUNCTIONAL SYMBOL OMEGA
2376		APL FUNCTIONAL SYMBOL ALPHA UNDERBAR
2377		APL FUNCTIONAL SYMBOL EPSILON UNDERBAR
2378		APL FUNCTIONAL SYMBOL IOTA UNDERBAR
2379		APL FUNCTIONAL SYMBOL OMEGA UNDERBAR
237A		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
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**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 10 DECIMAL EXPONENT SYMBOL  
 • Algol-60 token for scientific notation literals

**User interface symbols**

- 23E9 ►► BLACK RIGHT-POINTING DOUBLE TRIANGLE  
 = fast forward  
 23EA ◄◄ BLACK LEFT-POINTING DOUBLE TRIANGLE  
 = fast rewind  
 23EB ▲ BLACK UP-POINTING DOUBLE TRIANGLE  
 23EC ▼ BLACK DOWN-POINTING DOUBLE TRIANGLE  
 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  
 → 231A ⌚ watch  
 → 1F550 ⌚ clock face one oclock  
 23F1 ⌚ STOPWATCH  
 23F2 ⌚ TIMER CLOCK  
 23F3 ⌚ HOURGLASS WITH FLOWING SAND  
 → 231B ⌚ hourglass

	240	241	242	243
0	<sup>N</sup> <sub>U</sub> <sub>L</sub> 2400	<sup>D</sup> <sub>L</sub> <sub>E</sub> 2410	<sup>S</sup> <sub>P</sub> 2420	
1	<sup>S</sup> <sub>O</sub> <sub>H</sub> 2401	<sup>D</sup> <sub>C</sub> <sub>1</sub> 2411	<sup>D</sup> <sub>E</sub> <sub>L</sub> 2421	
2	<sup>S</sup> <sub>T</sub> <sub>X</sub> 2402	<sup>D</sup> <sub>C</sub> <sub>2</sub> 2412	<sup>b</sup> 2422	
3	<sup>E</sup> <sub>T</sub> <sub>X</sub> 2403	<sup>D</sup> <sub>C</sub> <sub>3</sub> 2413	<sup>┐</sup> 2423	
4	<sup>E</sup> <sub>O</sub> <sub>T</sub> 2404	<sup>D</sup> <sub>C</sub> <sub>4</sub> 2414	<sup>N</sup> <sub>L</sub> 2424	
5	<sup>E</sup> <sub>N</sub> <sub>Q</sub> 2405	<sup>N</sup> <sub>A</sub> <sub>K</sub> 2415	<sup>///</sup> 2425	
6	<sup>A</sup> <sub>C</sub> <sub>K</sub> 2406	<sup>S</sup> <sub>Y</sub> <sub>N</sub> 2416	<sup>?</sup> 2426	
7	<sup>B</sup> <sub>E</sub> <sub>L</sub> 2407	<sup>E</sup> <sub>T</sub> <sub>B</sub> 2417		
8	<sup>B</sup> <sub>S</sub> 2408	<sup>C</sup> <sub>A</sub> <sub>N</sub> 2418		
9	<sup>H</sup> <sub>T</sub> 2409	<sup>E</sup> <sub>M</sub> 2419		
A	<sup>L</sup> <sub>F</sub> 240A	<sup>S</sup> <sub>U</sub> <sub>B</sub> 241A		
B	<sup>V</sup> <sub>T</sub> 240B	<sup>E</sup> <sub>S</sub> <sub>C</sub> 241B		
C	<sup>F</sup> <sub>F</sub> 240C	<sup>F</sup> <sub>S</sub> 241C		
D	<sup>C</sup> <sub>R</sub> 240D	<sup>G</sup> <sub>S</sub> 241D		
E	<sup>S</sup> <sub>S</sub> 240E	<sup>R</sup> <sub>S</sub> 241E		
F	<sup>S</sup> <sub>I</sub> 240F	<sup>U</sup> <sub>S</sub> 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	<sup>N</sup> <sub>U</sub> <sub>L</sub>	SYMBOL FOR NULL
2401	<sup>S</sup> <sub>O</sub> <sub>H</sub>	SYMBOL FOR START OF HEADING
2402	<sup>S</sup> <sub>T</sub> <sub>X</sub>	SYMBOL FOR START OF TEXT
2403	<sup>E</sup> <sub>T</sub> <sub>X</sub>	SYMBOL FOR END OF TEXT
2404	<sup>E</sup> <sub>O</sub> <sub>T</sub>	SYMBOL FOR END OF TRANSMISSION
2405	<sup>E</sup> <sub>N</sub> <sub>Q</sub>	SYMBOL FOR ENQUIRY
2406	<sup>A</sup> <sub>C</sub> <sub>K</sub>	SYMBOL FOR ACKNOWLEDGE
2407	<sup>B</sup> <sub>E</sub> <sub>L</sub>	SYMBOL FOR BELL
2408	<sup>B</sup> <sub>S</sub>	SYMBOL FOR BACKSPACE
2409	<sup>H</sup> <sub>T</sub>	SYMBOL FOR HORIZONTAL TABULATION
240A	<sup>L</sup> <sub>F</sub>	SYMBOL FOR LINE FEED
240B	<sup>V</sup> <sub>T</sub>	SYMBOL FOR VERTICAL TABULATION
240C	<sup>F</sup> <sub>F</sub>	SYMBOL FOR FORM FEED
240D	<sup>C</sup> <sub>R</sub>	SYMBOL FOR CARRIAGE RETURN
240E	<sup>S</sup> <sub>S</sub>	SYMBOL FOR SHIFT OUT
240F	<sup>S</sup> <sub>I</sub>	SYMBOL FOR SHIFT IN
2410	<sup>D</sup> <sub>L</sub> <sub>E</sub>	SYMBOL FOR DATA LINK ESCAPE
2411	<sup>D</sup> <sub>C</sub> <sub>1</sub>	SYMBOL FOR DEVICE CONTROL ONE
2412	<sup>D</sup> <sub>C</sub> <sub>2</sub>	SYMBOL FOR DEVICE CONTROL TWO
2413	<sup>D</sup> <sub>C</sub> <sub>3</sub>	SYMBOL FOR DEVICE CONTROL THREE
2414	<sup>D</sup> <sub>C</sub> <sub>4</sub>	SYMBOL FOR DEVICE CONTROL FOUR
2415	<sup>N</sup> <sub>A</sub> <sub>K</sub>	SYMBOL FOR NEGATIVE ACKNOWLEDGE
2416	<sup>S</sup> <sub>Y</sub> <sub>N</sub>	SYMBOL FOR SYNCHRONOUS IDLE
2417	<sup>E</sup> <sub>T</sub> <sub>B</sub>	SYMBOL FOR END OF TRANSMISSION BLOCK
2418	<sup>C</sup> <sub>A</sub> <sub>N</sub>	SYMBOL FOR CANCEL
2419	<sup>E</sup> <sub>M</sub>	SYMBOL FOR END OF MEDIUM
241A	<sup>S</sup> <sub>U</sub> <sub>B</sub>	SYMBOL FOR SUBSTITUTE
241B	<sup>E</sup> <sub>S</sub> <sub>C</sub>	SYMBOL FOR ESCAPE
241C	<sup>F</sup> <sub>S</sub>	SYMBOL FOR FILE SEPARATOR
241D	<sup>G</sup> <sub>S</sub>	SYMBOL FOR GROUP SEPARATOR
241E	<sup>R</sup> <sub>S</sub>	SYMBOL FOR RECORD SEPARATOR
241F	<sup>U</sup> <sub>S</sub>	SYMBOL FOR UNIT SEPARATOR
2420	<sup>S</sup> <sub>P</sub>	SYMBOL FOR SPACE
2421	<sup>D</sup> <sub>E</sub> <sub>L</sub>	SYMBOL FOR DELETE

#### Specific symbols for space

2422	<sup>b</sup>	BLANK SYMBOL
		• graphic for space
		→ 0180 <sup>b</sup> latin small letter b with stroke
2423	<sup>┐</sup>	OPEN BOX
		• graphic for space
		→ 2334 <sup>┐</sup> counterbore

#### Graphic picture for control code












2424	<sup>N</sup> <sub>L</sub>	SYMBOL FOR NEWLINE
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#### Keyboard symbol













2425	<sup>///</sup>	SYMBOL FOR DELETE FORM TWO
		• from ISO 9995-7
		• keyboard symbol for undoable delete

































































































































































#### Specific symbol for control code

2426	<sup>?</sup>	SYMBOL FOR SUBSTITUTE FORM TWO
		• from ISO 2047
		→ 061F <sup>?</sup> 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	 2460	 2470	 2480	 2490	 24A0	 24B0	 24C0	 24D0	 24E0	 24F0
1	 2461	 2471	 2481	 2491	 24A1	 24B1	 24C1	 24D1	 24E1	 24F1
2	 2462	 2472	 2482	 2492	 24A2	 24B2	 24C2	 24D2	 24E2	 24F2
3	 2463	 2473	 2483	 2493	 24A3	 24B3	 24C3	 24D3	 24E3	 24F3
4	 2464	 2474	 2484	 2494	 24A4	 24B4	 24C4	 24D4	 24E4	 24F4
5	 2465	 2475	 2485	 2495	 24A5	 24B5	 24C5	 24D5	 24E5	 24F5
6	 2466	 2476	 2486	 2496	 24A6	 24B6	 24C6	 24D6	 24E6	 24F6
7	 2467	 2477	 2487	 2497	 24A7	 24B7	 24C7	 24D7	 24E7	 24F7
8	 2468	 2478	 2488	 2498	 24A8	 24B8	 24C8	 24D8	 24E8	 24F8
9	 2469	 2479	 2489	 2499	 24A9	 24B9	 24C9	 24D9	 24E9	 24F9
A	 246A	 247A	 248A	 249A	 24AA	 24BA	 24CA	 24DA	 24EA	 24FA
B	 246B	 247B	 248B	 249B	 24AB	 24BB	 24CB	 24DB	 24EB	 24FB
C	 246C	 247C	 248C	 249C	 24AC	 24BC	 24CC	 24DC	 24EC	 24FC
D	 246D	 247D	 248D	 249D	 24AD	 24BD	 24CD	 24DD	 24ED	 24FD
E	 246E	 247E	 248E	 249E	 24AE	 24BE	 24CE	 24DE	 24EE	 24FE
F	 246F	 247F	 248F	 249F	 24AF	 24BF	 24CF	 24DF	 24EF	 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 ℙ 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 (V) CIRCLED LATIN CAPITAL LETTER V  
≈ <circle> 0056 V

24CC (W) CIRCLED LATIN CAPITAL LETTER W  
≈ <circle> 0057 W

24CD (X) CIRCLED LATIN CAPITAL LETTER X  
≈ <circle> 0058 X

24CE (Y) CIRCLED LATIN CAPITAL LETTER Y  
≈ <circle> 0059 Y

24CF (Z) CIRCLED LATIN CAPITAL LETTER Z  
≈ <circle> 005A Z

24D0 (a) CIRCLED LATIN SMALL LETTER A  
≈ <circle> 0061 a

24D1 (b) CIRCLED LATIN SMALL LETTER B  
≈ <circle> 0062 b

24D2 (c) CIRCLED LATIN SMALL LETTER C  
≈ <circle> 0063 c

24D3 (d) 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	⓵	DOUBLE CIRCLED DIGIT ONE
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24F6	⓶	DOUBLE CIRCLED DIGIT TWO
24F7	⓷	DOUBLE CIRCLED DIGIT THREE
24F8	⓸	DOUBLE CIRCLED DIGIT FOUR
24F9	⓹	DOUBLE CIRCLED DIGIT FIVE
24FA	⓺	DOUBLE CIRCLED DIGIT SIX
24FB	⓻	DOUBLE CIRCLED DIGIT SEVEN
24FC	⓼	DOUBLE CIRCLED DIGIT EIGHT
24FD	⓽	DOUBLE CIRCLED DIGIT NINE
24FE	⓾	DOUBLE CIRCLED NUMBER TEN

**Additional white on black circled number**

































24FF	⓿	NEGATIVE CIRCLED DIGIT ZERO → 2776 ⓿ dingbat negative circled digit one
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	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	2525	⊥	BOX DRAWINGS VERTICAL LIGHT AND LEFT HEAVY = Videotex Mosaic DG 04
2501	—	BOX DRAWINGS HEAVY HORIZONTAL	2526	⊥	BOX DRAWINGS UP HEAVY AND LEFT DOWN LIGHT
2502		BOX DRAWINGS LIGHT VERTICAL = Videotex Mosaic DG 14	2527	⊥	BOX DRAWINGS DOWN HEAVY AND LEFT UP LIGHT
2503		BOX DRAWINGS HEAVY VERTICAL	2528	⊥	BOX DRAWINGS VERTICAL HEAVY AND LEFT LIGHT
2504	---	BOX DRAWINGS LIGHT TRIPLE DASH HORIZONTAL	2529	⊥	BOX DRAWINGS DOWN LIGHT AND LEFT UP HEAVY
2505	---	BOX DRAWINGS HEAVY TRIPLE DASH HORIZONTAL	252A	⊥	BOX DRAWINGS UP LIGHT AND LEFT DOWN HEAVY
2506	---	BOX DRAWINGS LIGHT TRIPLE DASH VERTICAL	252B	⊥	BOX DRAWINGS HEAVY VERTICAL AND LEFT
2507	---	BOX DRAWINGS HEAVY TRIPLE DASH VERTICAL	252C	⊥	BOX DRAWINGS LIGHT DOWN AND HORIZONTAL = Videotex Mosaic DG 22
2508	---	BOX DRAWINGS LIGHT QUADRUPLE DASH HORIZONTAL	252D	⊥	BOX DRAWINGS LEFT HEAVY AND RIGHT DOWN LIGHT
2509	---	BOX DRAWINGS HEAVY QUADRUPLE DASH HORIZONTAL	252E	⊥	BOX DRAWINGS RIGHT HEAVY AND LEFT DOWN LIGHT
250A	---	BOX DRAWINGS LIGHT QUADRUPLE DASH VERTICAL	252F	⊥	BOX DRAWINGS DOWN LIGHT AND HORIZONTAL HEAVY = Videotex Mosaic DG 02
250B	---	BOX DRAWINGS HEAVY QUADRUPLE DASH VERTICAL	2530	⊥	BOX DRAWINGS DOWN HEAVY AND HORIZONTAL LIGHT
250C	⌊	BOX DRAWINGS LIGHT DOWN AND RIGHT = Videotex Mosaic DG 16	2531	⊥	BOX DRAWINGS RIGHT LIGHT AND LEFT DOWN HEAVY
250D	⌊	BOX DRAWINGS DOWN LIGHT AND RIGHT HEAVY	2532	⊥	BOX DRAWINGS LEFT LIGHT AND RIGHT DOWN HEAVY
250E	⌊	BOX DRAWINGS DOWN HEAVY AND RIGHT LIGHT	2533	⊥	BOX DRAWINGS HEAVY DOWN AND HORIZONTAL
250F	⌊	BOX DRAWINGS HEAVY DOWN AND RIGHT	2534	⊥	BOX DRAWINGS LIGHT UP AND HORIZONTAL = Videotex Mosaic DG 23
2510	⌋	BOX DRAWINGS LIGHT DOWN AND LEFT = Videotex Mosaic DG 17	2535	⊥	BOX DRAWINGS LEFT HEAVY AND RIGHT UP LIGHT
2511	⌋	BOX DRAWINGS DOWN LIGHT AND LEFT HEAVY	2536	⊥	BOX DRAWINGS RIGHT HEAVY AND LEFT UP LIGHT
2512	⌋	BOX DRAWINGS DOWN HEAVY AND LEFT LIGHT	2537	⊥	BOX DRAWINGS UP LIGHT AND HORIZONTAL HEAVY = Videotex Mosaic DG 01
2513	⌋	BOX DRAWINGS HEAVY DOWN AND LEFT	2538	⊥	BOX DRAWINGS UP HEAVY AND HORIZONTAL LIGHT
2514	⌋	BOX DRAWINGS LIGHT UP AND RIGHT = Videotex Mosaic DG 18	2539	⊥	BOX DRAWINGS RIGHT LIGHT AND LEFT UP HEAVY
2515	⌋	BOX DRAWINGS UP LIGHT AND RIGHT HEAVY	253A	⊥	BOX DRAWINGS LEFT LIGHT AND RIGHT UP HEAVY
2516	⌋	BOX DRAWINGS UP HEAVY AND RIGHT LIGHT	253B	⊥	BOX DRAWINGS HEAVY UP AND HORIZONTAL
2517	⌋	BOX DRAWINGS HEAVY UP AND RIGHT	253C	⊥	BOX DRAWINGS LIGHT VERTICAL AND HORIZONTAL = Videotex Mosaic DG 24
2518	⌋	BOX DRAWINGS LIGHT UP AND LEFT = Videotex Mosaic DG 19	253D	⊥	BOX DRAWINGS LEFT HEAVY AND RIGHT VERTICAL LIGHT
2519	⌋	BOX DRAWINGS UP LIGHT AND LEFT HEAVY	253E	⊥	BOX DRAWINGS RIGHT HEAVY AND LEFT VERTICAL LIGHT
251A	⌋	BOX DRAWINGS UP HEAVY AND LEFT LIGHT	253F	⊥	BOX DRAWINGS VERTICAL LIGHT AND HORIZONTAL HEAVY = Videotex Mosaic DG 13
251B	⌋	BOX DRAWINGS HEAVY UP AND LEFT	2540	⊥	BOX DRAWINGS UP HEAVY AND DOWN HORIZONTAL LIGHT
251C	⌋	BOX DRAWINGS LIGHT VERTICAL AND RIGHT = Videotex Mosaic DG 20	2541	⊥	BOX DRAWINGS DOWN HEAVY AND UP HORIZONTAL LIGHT
251D	⌋	BOX DRAWINGS VERTICAL LIGHT AND RIGHT HEAVY = Videotex Mosaic DG 03	2542	⊥	BOX DRAWINGS VERTICAL HEAVY AND HORIZONTAL LIGHT
251E	⌋	BOX DRAWINGS UP HEAVY AND RIGHT DOWN LIGHT	2543	⊥	BOX DRAWINGS LEFT 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			
2524	⌋	BOX DRAWINGS LIGHT VERTICAL AND LEFT = Videotex Mosaic DG 21			

2544	⊥	BOX DRAWINGS RIGHT UP HEAVY AND LEFT DOWN LIGHT	2569	⊥	BOX DRAWINGS DOUBLE UP AND HORIZONTAL
2545	⊥	BOX DRAWINGS LEFT DOWN HEAVY AND RIGHT UP LIGHT	256A	⊥	BOX DRAWINGS VERTICAL SINGLE AND HORIZONTAL DOUBLE
2546	⊥	BOX DRAWINGS RIGHT DOWN HEAVY AND LEFT UP LIGHT	256B	⊥	BOX DRAWINGS VERTICAL DOUBLE AND HORIZONTAL SINGLE
2547	⊥	BOX DRAWINGS DOWN LIGHT AND UP HORIZONTAL HEAVY	256C	⊥	BOX DRAWINGS DOUBLE VERTICAL AND HORIZONTAL
2548	⊥	BOX DRAWINGS UP LIGHT AND DOWN HORIZONTAL HEAVY	256D	⌈	BOX DRAWINGS LIGHT ARC DOWN AND RIGHT
2549	⊥	BOX DRAWINGS RIGHT LIGHT AND LEFT VERTICAL HEAVY	256E	⌋	BOX DRAWINGS LIGHT ARC DOWN AND LEFT
254A	⊥	BOX DRAWINGS LEFT LIGHT AND RIGHT VERTICAL HEAVY	256F	⌈	BOX DRAWINGS LIGHT ARC UP AND LEFT
254B	⊕	BOX DRAWINGS HEAVY VERTICAL AND HORIZONTAL	2570	⌋	BOX DRAWINGS LIGHT ARC UP AND RIGHT
254C	--	BOX DRAWINGS LIGHT DOUBLE DASH HORIZONTAL	2571	/	BOX DRAWINGS LIGHT DIAGONAL UPPER RIGHT TO LOWER LEFT
254D	--	BOX DRAWINGS HEAVY DOUBLE DASH HORIZONTAL	2572	\	BOX DRAWINGS LIGHT DIAGONAL UPPER LEFT TO LOWER RIGHT
254E		BOX DRAWINGS LIGHT DOUBLE DASH VERTICAL	2573	X	BOX DRAWINGS LIGHT DIAGONAL CROSS
254F		BOX DRAWINGS HEAVY DOUBLE DASH VERTICAL	2574	-	BOX DRAWINGS LIGHT LEFT
2550	-	BOX DRAWINGS DOUBLE HORIZONTAL	2575		BOX DRAWINGS LIGHT UP
2551		BOX DRAWINGS DOUBLE VERTICAL	2576	-	BOX DRAWINGS LIGHT RIGHT
2552	⌈	BOX DRAWINGS DOWN SINGLE AND RIGHT DOUBLE	2577		BOX DRAWINGS LIGHT DOWN
2553	⌈	BOX DRAWINGS DOWN DOUBLE AND RIGHT SINGLE	2578	-	BOX DRAWINGS HEAVY LEFT
2554	⌈	BOX DRAWINGS DOUBLE DOWN AND RIGHT	2579		BOX DRAWINGS HEAVY UP
2555	⌋	BOX DRAWINGS DOWN SINGLE AND LEFT DOUBLE	257A	-	BOX DRAWINGS HEAVY RIGHT
2556	⌋	BOX DRAWINGS DOWN DOUBLE AND LEFT SINGLE	257B		BOX DRAWINGS HEAVY DOWN
2557	⌋	BOX DRAWINGS DOUBLE DOWN AND LEFT	257C	-	BOX DRAWINGS LIGHT LEFT AND HEAVY RIGHT
2558	⌌	BOX DRAWINGS UP SINGLE AND RIGHT DOUBLE	257D		BOX DRAWINGS LIGHT UP AND HEAVY DOWN
2559	⌌	BOX DRAWINGS UP DOUBLE AND RIGHT SINGLE	257E	-	BOX DRAWINGS HEAVY LEFT AND LIGHT RIGHT
255A	⌌	BOX DRAWINGS DOUBLE UP AND RIGHT	257F		BOX DRAWINGS HEAVY UP AND LIGHT DOWN
255B	⌌	BOX DRAWINGS UP SINGLE AND LEFT DOUBLE			
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			
2566	⌌	BOX DRAWINGS DOUBLE DOWN AND HORIZONTAL			
2567	⌌	BOX DRAWINGS UP SINGLE AND HORIZONTAL DOUBLE			
2568	⌌	BOX DRAWINGS UP 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 AND LOWER LEFT  
 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 AND LOWER RIGHT  
 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 = alchemical symbol for salt • may be used to represent a missing ideograph → 20DE □ combining enclosing square → 2610 □ ballot box → 2B1C □ white large square → 3013 ■ 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	◞	<b>LOWER RIGHT QUADRANT CIRCULAR ARC</b>
25DF	◟	<b>LOWER LEFT QUADRANT CIRCULAR ARC</b>
25E0	◠	<b>UPPER HALF CIRCLE</b> → 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	 26E2	 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	 26E4	 26F4
5	 2605	 2615	 2625	 2635	 2645	 2655	 2665	 2675	 2685	 2695	 26A5	 26B5	 26C5	 26D5	 26E5	 26F5
6	 2606	 2616	 2626	 2636	 2646	 2656	 2666	 2676	 2686	 2696	 26A6	 26B6	 26C6	 26D6	 26E6	 26F6
7	 2607	 2617	 2627	 2637	 2647	 2657	 2667	 2677	 2687	 2697	 26A7	 26B7	 26C7	 26D7	 26E7	 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  
= alchemical symbol for gold  
→ 2299 ☉ circled dot operator  
→ 2600 ☀ black sun with rays  
→ 263C ☼ white sun with rays
- 260A ♀ ASCENDING NODE  
= alchemical symbol for sublimate
- 260B ♂ DESCENDING NODE  
= alchemical symbol for purify
- 260C ☿ CONJUNCTION  
= alchemical symbol for day
- 260D ♀ OPPOSITION

**Miscellaneous symbols**

- 260E ☎ BLACK TELEPHONE  
→ 2121 ☎ 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 ✕ SALTIRE  
= St. Andrew's Cross  
→ 2717 ✕ 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 khanda
- 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  
= alchemical symbol for silver

263E ☾ LAST QUARTER MOON  
= alchemical symbol for silver

263F ♀ MERCURY  
= alchemical symbol for quicksilver

2640 ♀ FEMALE SIGN  
= Venus  
= alchemical symbol for copper

2641 ♂ EARTH  
= alchemical symbol for antimony  
→ 2295 ⊕ circled plus  
→ 1F728 ⊕ alchemical symbol for verdigris

2642 ♂ MALE SIGN  
= Mars  
= alchemical symbol for iron

2643 ♃ JUPITER  
= alchemical symbol for tin

2644 ♄ SATURN  
= alchemical symbol for lead

2645 ♅ URANUS  
→ 26E2 ♅ astronomical symbol for uranus

2646 ♆ NEPTUNE  
= alchemical symbol for bismuth/tinglass

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 • alternative form of the interlaced pentagram (a symbol of Morocco)

**Symbols for closed captioning from ARIB STD B24**

269E		THREE LINES CONVERGING RIGHT = someone speaking
269F		THREE LINES CONVERGING LEFT = background speaking

**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 = alchemical symbol for iron or crocus of iron
26A7		MALE WITH STROKE AND MALE AND FEMALE SIGN = transgendered sexuality
26A8		VERTICAL MALE WITH STROKE SIGN = alchemical symbol for iron
26A9		HORIZONTAL MALE WITH STROKE SIGN = alchemical symbol for iron

**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
------	--	--------

**Astrological signs**

26B3		CERES
26B4		PALLAS
26B5		JUNO

26B6	⚡	VESTA
26B7	♄	CHIRON
26B8	☾	BLACK MOON LILITH
26B9	*	SEXTILE → 1F739 ✕ alchemical symbol for sal-ammoniac → 002A * asterisk
26BA	⚭	SEMISEXTILE → 22BB ∨ xor
26BB	⋈	QUINCUNX → 22BC ⋈ nand
26BC	⊞	SESQUIQUADRATE

**Sports symbols**

26BD	⚽	SOCCER BALL
26BE	⚾	BASEBALL

**Miscellaneous symbol from ARIB STD B24**

26BF	🔒	SQUARED KEY = parental lock
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**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
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

**Astronomical symbol**
















26E2	♅	ASTRONOMICAL SYMBOL FOR URANUS → 2645 ♅ uranus
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




















































































































































































**Dictionary and map symbols from ARIB STD B24**

26E3	🏢	HEAVY CIRCLE WITH STROKE AND TWO DOTS ABOVE = public office
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**Pentagram symbols**

26E4	☆	PENTAGRAM = pentalpha, pentangle • mystic or occult symbol • symbol of various uses, including symbol on Moroccan flag → 2606 ☆ white star
26E5	☆	RIGHT-HANDED INTERLACED PENTAGRAM • mystic or occult symbol • symbol of various countries, including Morocco → 269D ☆ outlined white star
26E6	☆	LEFT-HANDED INTERLACED PENTAGRAM • mystic or occult symbol • symbol of various countries, including Ethiopia → 269D ☆ outlined white star
26E7	☆	INVERTED PENTAGRAM • mystic or occult symbol
26E8	🏥	BLACK CROSS ON SHIELD = hospital
26E9	🏛	SHINTO SHRINE = torii
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		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	 27B0
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	 27BF

*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.*

- 260E ☎ black telephone
- 261B ➡ black right pointing index
- 261E ⬅ white right pointing index
- 2605 ★ black star
- 25CF ● black circle
- 25A0 ■ black square
- 25B2 ▲ black up-pointing triangle
- 25BC ▼ black down-pointing triangle
- 25C6 ◆ black diamond
- 2192 → rightwards arrow
- 2194 ↔ left right arrow
- 2195 ↑ up down arrow

#### Miscellaneous

- 2701 ✂ UPPER BLADE SCISSORS
- 2702 ✂ BLACK SCISSORS
- 2703 ✂ LOWER BLADE SCISSORS
- 2704 ✂ WHITE SCISSORS
- 2705 ✓ WHITE HEAVY CHECK MARK
  - 2714 ✓ heavy check mark
- 2706 ☎ TELEPHONE LOCATION SIGN
  - 2121 ☎ telephone sign
- 2707 📀 TAPE DRIVE
- 2708 ✈ AIRPLANE
- 2709 ✉ ENVELOPE
- 270A 🖊 RAISED FIST
  - = rock in Rock, Paper, Scissors game
  - 270B 🖊 raised hand
  - 270C 🖊 victory hand
- 270B 🖊 RAISED HAND
  - = paper in Rock, Paper, Scissors game
  - 270A 🖊 raised fist
  - 270C 🖊 victory hand
- 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
- 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



- 274D ○ SHADOWED WHITE CIRCLE  
 274E ☒ NEGATIVE SQUARED CROSS MARK  
 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  
 2754 ? WHITE QUESTION MARK ORNAMENT  
 2755 ! WHITE EXCLAMATION MARK ORNAMENT  
 → 2762 ! heavy exclamation mark ornament  
 → 2757 ! heavy exclamation mark symbol  
 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  
 = hедера, 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 ❶ DINGBAT NEGATIVE CIRCLED DIGIT ONE  
 2777 ❷ DINGBAT NEGATIVE CIRCLED DIGIT TWO  
 2778 ❸ DINGBAT NEGATIVE CIRCLED DIGIT THREE  
 2779 ❹ DINGBAT NEGATIVE CIRCLED DIGIT FOUR  
 277A ❺ DINGBAT NEGATIVE CIRCLED DIGIT FIVE  
 277B ❻ DINGBAT NEGATIVE CIRCLED DIGIT SIX  
 277C ❼ DINGBAT NEGATIVE CIRCLED DIGIT SEVEN  
 277D ❽ DINGBAT NEGATIVE CIRCLED DIGIT EIGHT  
 277E ❾ DINGBAT NEGATIVE CIRCLED DIGIT NINE  
 277F ❿ DINGBAT NEGATIVE CIRCLED NUMBER TEN  
 2780 ① DINGBAT CIRCLED SANS-SERIF DIGIT ONE  
 2781 ② DINGBAT CIRCLED SANS-SERIF DIGIT TWO  
 2782 ③ DINGBAT CIRCLED SANS-SERIF DIGIT THREE  
 2783 ④ DINGBAT CIRCLED SANS-SERIF DIGIT FOUR  
 2784 ⑤ DINGBAT CIRCLED SANS-SERIF DIGIT FIVE  
 2785 ⑥ DINGBAT CIRCLED SANS-SERIF DIGIT SIX  
 2786 ⑦ DINGBAT CIRCLED SANS-SERIF DIGIT SEVEN  
 2787 ⑧ DINGBAT CIRCLED SANS-SERIF DIGIT EIGHT  
 2788 ⑨ DINGBAT CIRCLED SANS-SERIF DIGIT NINE  
 2789 ⑩ DINGBAT CIRCLED SANS-SERIF NUMBER TEN  
 278A ❶ DINGBAT NEGATIVE CIRCLED SANS-SERIF DIGIT ONE  
 278B ❷ DINGBAT NEGATIVE CIRCLED SANS-SERIF DIGIT TWO  
 278C ❸ DINGBAT NEGATIVE CIRCLED SANS-SERIF DIGIT THREE  
 278D ❹ DINGBAT NEGATIVE CIRCLED SANS-SERIF DIGIT FOUR  
 278E ❺ DINGBAT NEGATIVE CIRCLED SANS-SERIF DIGIT FIVE  
 278F ❻ DINGBAT NEGATIVE CIRCLED SANS-SERIF DIGIT SIX  
 2790 ❼ 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 arrow**

- 2794 ➔ HEAVY WIDE-HEADED RIGHTWARDS ARROW

**Arithmetic symbols**

- 2795 + HEAVY PLUS SIGN  
 2796 − HEAVY MINUS SIGN  
 2797 ÷ HEAVY DIVISION SIGN

















































**Dingbat arrows**

- 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

**Curly loop**

- 27B0 ㄣ CURLY LOOP  
     = kururi  
 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  
 27BF ㄣ DOUBLE CURLY LOOP  
     → 16986 𐌆 bamum letter phase-e nggurae

	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	$\angle$	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	$\subset$	OPEN SUBSET
27C4	$\supset$	OPEN SUPERSET
27C5	$\{$	LEFT S-SHAPED BAG DELIMITER
27C6	$\}$	RIGHT S-SHAPED BAG DELIMITER
27C7	$\vee$	OR WITH DOT INSIDE
27C8	$\subsetneq$	REVERSE SOLIDUS PRECEDING SUBSET
27C9	$\supsetneq$	SUPERSET PRECEDING SOLIDUS

**Vertical line operator**

27CA	$\vdash$	VERTICAL BAR WITH HORIZONTAL STROKE → 2AF2 $\#$ parallel with horizontal stroke → 2AF5 $\equiv$ triple vertical bar with horizontal stroke
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**Division operator**

27CC	$\div$	LONG DIVISION • graphically extends over the dividend → 00F7 $\div$ division sign → 2215 $/$ division slash → 221A $\surd$ square root
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**Operators**

27CE	$\boxtimes$	SQUARED LOGICAL AND = box min • morphological min product operator • morphological erosion operator • additive minimum operator
27CF	$\boxplus$	SQUARED LOGICAL OR = box max • morphological max product operator • morphological dilation operator • additive maximum operator

**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	$\Downarrow$	ELEMENT OF OPENING UPWARDS → 2AD9 $\Downarrow$ element of opening downwards
27D3	$\lrcorner$	LOWER RIGHT CORNER WITH DOT = pullback → 230B $\lrcorner$ right floor
27D4	$\ulcorner$	UPPER LEFT CORNER WITH DOT = pushout → 2308 $\ulcorner$ 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	$\Uparrow$	LARGE UP TACK → 22A5 $\Uparrow$ up tack
27D9	$\Downarrow$	LARGE DOWN TACK → 22A4 $\Downarrow$ down tack
27DA	$\equiv$	LEFT AND RIGHT DOUBLE TURNSTILE → 22A8 $\equiv$ true → 2AE4 $\equiv$ vertical bar double left turnstile
27DB	$\rightleftharpoons$	LEFT AND RIGHT TACK → 22A2 $\rightleftharpoons$ right tack
27DC	$\multimap$	LEFT MULTIMAP → 22B8 $\multimap$ multimap
27DD	$\rightharpoonup$	LONG RIGHT TACK → 22A2 $\rightharpoonup$ right tack
27DE	$\leftharpoonup$	LONG LEFT TACK → 22A3 $\leftharpoonup$ left tack
27DF	$\upharpoonright$	UP TACK WITH CIRCLE ABOVE = radial component → 2AF1 $\upharpoonright$ down tack with circle below

**Modal logic operators**

27E0	$\diamond$	LOZENGE DIVIDED BY HORIZONTAL RULE • used as form of possibility in modal logic → 25CA $\diamond$ lozenge
27E1	$\nabla$	WHITE CONCAVE-SIDED DIAMOND = never (modal operator)
27E2	$\nabla$	WHITE CONCAVE-SIDED DIAMOND WITH LEFTWARDS TICK = was never (modal operator)
27E3	$\nabla$	WHITE CONCAVE-SIDED DIAMOND WITH RIGHTWARDS TICK = will never be (modal operator)
27E4	$\square$	WHITE SQUARE WITH LEFTWARDS TICK = was always (modal operator) → 25A1 $\square$ white square
27E5	$\square$	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 ( MATHEMATICAL LEFT WHITE TORTOISE SHELL  
BRACKET

→ 2997 ( left black tortoise shell bracket

→ 3018 ( 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 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  
→ 21DD  rightwards squiggle arrow  
→ 2B33  long leftwards squiggle arrow

	280	281	282	283	284	285	286	287	288	289	28A	28B	28C	28D	28E	28F
0																
1																
2																
3																
4																
5																
6																
7																
8																
9																
A																
B																
C																
D																
E																
F																

*When braille patterns are punched, the filled circles shown here correspond to punch impression.*

































































































































**Braille patterns**

2800	••••••	BRaille PATTERN BLANK	2838	••••••	BRaille PATTERN DOTS-456
		• while this character is imaged as a fixed-width blank in many fonts, it does not act as a space	2839	••••••	BRaille PATTERN DOTS-1456
2801	••••••	BRaille PATTERN DOTS-1	283A	••••••	BRaille PATTERN DOTS-2456
2802	••••••	BRaille PATTERN DOTS-2	283B	••••••	BRaille PATTERN DOTS-12456
2803	••••••	BRaille PATTERN DOTS-12	283C	••••••	BRaille PATTERN DOTS-3456
2804	••••••	BRaille PATTERN DOTS-3	283D	••••••	BRaille PATTERN DOTS-13456
2805	••••••	BRaille PATTERN DOTS-13	283E	••••••	BRaille PATTERN DOTS-23456
2806	••••••	BRaille PATTERN DOTS-23	283F	••••••	BRaille PATTERN DOTS-123456
2807	••••••	BRaille PATTERN DOTS-123	2840	••••••	BRaille PATTERN DOTS-7
2808	••••••	BRaille PATTERN DOTS-4	2841	••••••	BRaille PATTERN DOTS-17
2809	••••••	BRaille PATTERN DOTS-14	2842	••••••	BRaille PATTERN DOTS-27
280A	••••••	BRaille PATTERN DOTS-24	2843	••••••	BRaille PATTERN DOTS-127
280B	••••••	BRaille PATTERN DOTS-124	2844	••••••	BRaille PATTERN DOTS-37
280C	••••••	BRaille PATTERN DOTS-34	2845	••••••	BRaille PATTERN DOTS-137
280D	••••••	BRaille PATTERN DOTS-134	2846	••••••	BRaille PATTERN DOTS-237
280E	••••••	BRaille PATTERN DOTS-234	2847	••••••	BRaille PATTERN DOTS-1237
280F	••••••	BRaille PATTERN DOTS-1234	2848	••••••	BRaille PATTERN DOTS-47
2810	••••••	BRaille PATTERN DOTS-5	2849	••••••	BRaille PATTERN DOTS-147
2811	••••••	BRaille PATTERN DOTS-15	284A	••••••	BRaille PATTERN DOTS-247
2812	••••••	BRaille PATTERN DOTS-25	284B	••••••	BRaille PATTERN DOTS-1247
2813	••••••	BRaille PATTERN DOTS-125	284C	••••••	BRaille PATTERN DOTS-347
2814	••••••	BRaille PATTERN DOTS-35	284D	••••••	BRaille PATTERN DOTS-1347
2815	••••••	BRaille PATTERN DOTS-135	284E	••••••	BRaille PATTERN DOTS-2347
2816	••••••	BRaille PATTERN DOTS-235	284F	••••••	BRaille PATTERN DOTS-12347
2817	••••••	BRaille PATTERN DOTS-1235	2850	••••••	BRaille PATTERN DOTS-57
2818	••••••	BRaille PATTERN DOTS-45	2851	••••••	BRaille PATTERN DOTS-157
2819	••••••	BRaille PATTERN DOTS-145	2852	••••••	BRaille PATTERN DOTS-257
281A	••••••	BRaille PATTERN DOTS-245	2853	••••••	BRaille PATTERN DOTS-1257
281B	••••••	BRaille PATTERN DOTS-1245	2854	••••••	BRaille PATTERN DOTS-357
281C	••••••	BRaille PATTERN DOTS-345	2855	••••••	BRaille PATTERN DOTS-1357
281D	••••••	BRaille PATTERN DOTS-1345	2856	••••••	BRaille PATTERN DOTS-2357
281E	••••••	BRaille PATTERN DOTS-2345	2857	••••••	BRaille PATTERN DOTS-12357
281F	••••••	BRaille PATTERN DOTS-12345	2858	••••••	BRaille PATTERN DOTS-457
2820	••••••	BRaille PATTERN DOTS-6	2859	••••••	BRaille PATTERN DOTS-1457
2821	••••••	BRaille PATTERN DOTS-16	285A	••••••	BRaille PATTERN DOTS-2457
2822	••••••	BRaille PATTERN DOTS-26	285B	••••••	BRaille PATTERN DOTS-12457
2823	••••••	BRaille PATTERN DOTS-126	285C	••••••	BRaille PATTERN DOTS-3457
2824	••••••	BRaille PATTERN DOTS-36	285D	••••••	BRaille PATTERN DOTS-13457
2825	••••••	BRaille PATTERN DOTS-136	285E	••••••	BRaille PATTERN DOTS-23457
2826	••••••	BRaille PATTERN DOTS-236	285F	••••••	BRaille PATTERN DOTS-123457
2827	••••••	BRaille PATTERN DOTS-1236	2860	••••••	BRaille PATTERN DOTS-67
2828	••••••	BRaille PATTERN DOTS-46	2861	••••••	BRaille PATTERN DOTS-167
2829	••••••	BRaille PATTERN DOTS-146	2862	••••••	BRaille PATTERN DOTS-267
282A	••••••	BRaille PATTERN DOTS-246	2863	••••••	BRaille PATTERN DOTS-1267
282B	••••••	BRaille PATTERN DOTS-1246	2864	••••••	BRaille PATTERN DOTS-367
282C	••••••	BRaille PATTERN DOTS-346	2865	••••••	BRaille PATTERN DOTS-1367
282D	••••••	BRaille PATTERN DOTS-1346	2866	••••••	BRaille PATTERN DOTS-2367
282E	••••••	BRaille PATTERN DOTS-2346	2867	••••••	BRaille PATTERN DOTS-12367
282F	••••••	BRaille PATTERN DOTS-12346	2868	••••••	BRaille PATTERN DOTS-467
2830	••••••	BRaille PATTERN DOTS-56	2869	••••••	BRaille PATTERN DOTS-1467
2831	••••••	BRaille PATTERN DOTS-156	286A	••••••	BRaille PATTERN DOTS-2467
2832	••••••	BRaille PATTERN DOTS-256	286B	••••••	BRaille PATTERN DOTS-12467
2833	••••••	BRaille PATTERN DOTS-1256	286C	••••••	BRaille PATTERN DOTS-3467
2834	••••••	BRaille PATTERN DOTS-356	286D	••••••	BRaille PATTERN DOTS-13467
2835	••••••	BRaille PATTERN DOTS-1356	286E	••••••	BRaille PATTERN DOTS-23467
2836	••••••	BRaille PATTERN DOTS-2356	286F	••••••	BRaille PATTERN DOTS-123467
2837	••••••	BRaille PATTERN DOTS-12356	2870	••••••	BRaille PATTERN DOTS-567
			2871	••••••	BRaille PATTERN DOTS-1567
			2872	••••••	BRaille PATTERN DOTS-2567
			2873	••••••	BRaille PATTERN DOTS-12567
			2874	••••••	BRaille PATTERN DOTS-3567



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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
28F8	⠩	BRAILLE PATTERN DOTS-45678
28F9	⠪	BRAILLE PATTERN DOTS-145678
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

	290	291	292	293	294	295	296	297
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 ⇨ RIGHTWARDS ARROW ABOVE TILDE OPERATOR  
 → 2B4B ⇨ 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  $\vdash$  LEFT FISH TAIL
- 297D  $\rhd$  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  $\langle$  Z NOTATION LEFT IMAGE BRACKET  
 2988  $\rangle$  Z NOTATION RIGHT IMAGE BRACKET

2989  $\langle$  Z NOTATION LEFT BINDING BRACKET

298A  $\rangle$  Z NOTATION RIGHT BINDING BRACKET

298B  $[$  LEFT SQUARE BRACKET WITH UNDERBAR

298C  $]$  RIGHT SQUARE BRACKET WITH UNDERBAR

298D  $[$  LEFT SQUARE BRACKET WITH TICK IN TOP CORNER

298E  $]$  RIGHT SQUARE BRACKET WITH TICK IN BOTTOM CORNER

298F  $[$  LEFT SQUARE BRACKET WITH TICK IN BOTTOM CORNER

2990  $]$  RIGHT SQUARE BRACKET WITH TICK IN TOP CORNER

2991  $\angle$  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  $\gtrless$  DOUBLE LEFT ARC GREATER-THAN BRACKET

2996  $\lessgtr$  DOUBLE RIGHT ARC LESS-THAN BRACKET

2997  $\frown$  LEFT BLACK TORTOISE SHELL BRACKET  
 → 27EC  $\frown$  mathematical left white tortoise shell bracket  
 → 3014  $\frown$  left tortoise shell bracket  
 → 3018  $\frown$  left white tortoise shell bracket

2998  $\smile$  RIGHT BLACK TORTOISE SHELL BRACKET

**Fences**

2999  $\cdots$  DOTTED FENCE  
 • four close dots vertical

299A  $\approx$  VERTICAL ZIGZAG LINE  
 → 2307  $\approx$  wavy line

**Angles**

299B  $\sphericalangle$  MEASURED ANGLE OPENING LEFT  
 → 2221  $\sphericalangle$  measured angle

299C  $\sqcap$  RIGHT ANGLE VARIANT WITH SQUARE  
 → 221F  $\sqcap$  right angle

299D  $\sqcap$  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  $\overline{\emptyset}$  EMPTY SET WITH OVERBAR

29B2  $\smallsmile$  EMPTY SET WITH SMALL CIRCLE ABOVE

29B3  $\smallsmile$  EMPTY SET WITH RIGHT ARROW ABOVE

29B4  $\smallsmile$  EMPTY SET WITH LEFT ARROW ABOVE

**Circle symbols**

29B5  $\ominus$  CIRCLE WITH HORIZONTAL BAR

→ 2296  $\ominus$  circled minus

29B6  $\textcircled{\text{v}}$  CIRCLED VERTICAL BAR

29B7  $\textcircled{\parallel}$  CIRCLED PARALLEL

29B8  $\textcircled{\sim}$  CIRCLED REVERSE SOLIDUS

29B9  $\textcircled{\perp}$  CIRCLED PERPENDICULAR

29BA  $\textcircled{\div}$  CIRCLE DIVIDED BY HORIZONTAL BAR AND TOP HALF DIVIDED BY VERTICAL BAR

29BB  $\textcircled{\times}$  CIRCLE WITH SUPERIMPOSED X  
 → 2297  $\textcircled{\times}$  circled times

29BC  $\textcircled{\circ}$  CIRCLED ANTICLOCKWISE-ROTATED DIVISION SIGN

29BD  $\textcircled{\uparrow}$  UP ARROW THROUGH CIRCLE

29BE  $\textcircled{\bullet}$  CIRCLED WHITE BULLET

→ 229A  $\textcircled{\circ}$  circled ring operator

→ 233E  $\textcircled{\circ}$  apl functional symbol circle jot

→ 25CE  $\textcircled{\circ}$  bullseye

29BF  $\textcircled{\bullet}$  CIRCLED BULLET

• forms part of a graduated set of circles with enclosed black circle of different sizes

→ 2299  $\textcircled{\bullet}$  circled dot operator

→ 25C9  $\textcircled{\bullet}$  fisheye

→ 2A00  $\textcircled{\bullet}$  n-ary circled dot operator

29C0  $\textcircled{\lessgtr}$  CIRCLED LESS-THAN











29C1  $\textcircled{\gtrless}$  CIRCLED GREATER-THAN

29C2  $\textcircled{\smallsmile}$  CIRCLE WITH SMALL CIRCLE TO THE RIGHT









29C3  $\textcircled{\smallsmile}$  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







**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	 2AA A	 2ABA	 2ACA	 2ADA	 2AEA	 2AFA
B	 2A0B	 2A1B	 2A2B	 2A3B	 2A4B	 2A5B	 2A6B	 2A7B	 2A8B	 2A9B	 2AA B	 2ABB	 2ACB	 2ADB	 2AEB	 2AFB
C	 2A0C	 2A1C	 2A2C	 2A3C	 2A4C	 2A5C	 2A6C	 2A7C	 2A8C	 2A9C	 2AA C	 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  $\Join$  TWO LOGICAL AND OPERATOR  
 = merge  
 → 2A55  $\Join$  two intersecting logical and
- 2A08  $\vee$  TWO LOGICAL OR OPERATOR  
 → 2A56  $\vee$  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  $\int$  222B  $\int$  222B  $\int$  222B  $\int$
- 2A0D  $\int$  FINITE PART INTEGRAL
- 2A0E  $\int$  INTEGRAL WITH DOUBLE STROKE
- 2A0F  $\int$  INTEGRAL AVERAGE WITH SLASH
- 2A10  $\oint$  CIRCULATION FUNCTION
- 2A11  $\oint$  ANTICLOCKWISE INTEGRATION
- 2A12  $\oint$  LINE INTEGRATION WITH RECTANGULAR PATH AROUND POLE
- 2A13  $\oint$  LINE INTEGRATION WITH SEMICIRCULAR PATH AROUND POLE
- 2A14  $\oint$  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  $\mathbin{\text{;}}$  Z NOTATION SCHEMA COMPOSITION  
 → 2A3E  $\mathbin{\text{;}}$  z notation relational composition
- 2A20  $\gg$  Z NOTATION SCHEMA PIPING  
 → 226B  $\gg$  much greater-than
- 2A21  $\uparrow$  Z NOTATION SCHEMA PROJECTION  
 → 21BE  $\uparrow$  upwards harpoon with barb rightwards

**Plus and minus sign operators**

- 2A22  $\mathbin{+}$  PLUS SIGN WITH SMALL CIRCLE ABOVE
- 2A23  $\mathbin{+}$  PLUS SIGN WITH CIRCUMFLEX ACCENT ABOVE
- 2A24  $\mathbin{+}$  PLUS SIGN WITH TILDE ABOVE  
 = positive difference or sum
- 2A25  $\mathbin{+}$  PLUS SIGN WITH DOT BELOW  
 → 2214  $\mathbin{+}$  dot plus
- 2A26  $\mathbin{+}$  PLUS SIGN WITH TILDE BELOW  
 = sum or positive difference
- 2A27  $\mathbin{+}_2$  PLUS SIGN WITH SUBSCRIPT TWO  
 = nim-addition
- 2A28  $\mathbin{+}$  PLUS SIGN WITH BLACK TRIANGLE
- 2A29  $\mathbin{-}$  MINUS SIGN WITH COMMA ABOVE
- 2A2A  $\mathbin{-}$  MINUS SIGN WITH DOT BELOW  
 → 2238  $\mathbin{-}$  dot minus
- 2A2B  $\mathbin{-}$  MINUS SIGN WITH FALLING DOTS
- 2A2C  $\mathbin{-}$  MINUS SIGN WITH RISING DOTS
- 2A2D  $\mathbin{+}$  PLUS SIGN IN LEFT HALF CIRCLE
- 2A2E  $\mathbin{+}$  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  $\ast$  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  $\odot$  MULTIPLICATION SIGN IN DOUBLE CIRCLE
- 2A38  $\odot$  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  $\dashv$  INTERIOR PRODUCT  
 → 230B  $\dashv$  right floor
- 2A3D  $\dashv$  RIGHTHAND INTERIOR PRODUCT  
 → 230A  $\dashv$  left floor  
 → 2319  $\dashv$  turned not sign
- 2A3E  $\mathbin{\text{;}}$  Z NOTATION RELATIONAL COMPOSITION  
 → 2A1F  $\mathbin{\text{;}}$  z notation schema composition
- 2A3F  $\sqcup$  AMALGAMATION OR COPRODUCT  
 → 2210  $\sqcup$  n-ary coproduct

**Intersections and unions**

- 2A40  $\cap$  INTERSECTION WITH DOT  
 → 2227  $\cap$  logical and  
 → 27D1  $\cap$  and with dot
- 2A41  $\cup$  UNION WITH MINUS SIGN  
 = z notation bag subtraction  
 → 228E  $\cup$  multiset union
- 2A42  $\cup$  UNION WITH OVERBAR
- 2A43  $\cap$  INTERSECTION WITH OVERBAR

2A44	$\sqcap$	INTERSECTION WITH LOGICAL AND
2A45	$\sqcup$	UNION WITH LOGICAL OR
2A46	$\times$	UNION ABOVE INTERSECTION
2A47	$\cap$	INTERSECTION ABOVE UNION
2A48	$\bar{\cap}$	UNION ABOVE BAR ABOVE INTERSECTION
2A49	$\bar{\cup}$	INTERSECTION ABOVE BAR ABOVE UNION
2A4A	$\cup$	UNION BESIDE AND JOINED WITH UNION
2A4B	$\cap$	INTERSECTION BESIDE AND JOINED WITH INTERSECTION
2A4C	$\sqcup$	CLOSED UNION WITH SERIFS → 222A $\sqcup$ union
2A4D	$\sqcap$	CLOSED INTERSECTION WITH SERIFS → 2229 $\sqcap$ 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	$\wedge$	LOGICAL AND WITH DOT ABOVE
2A52	$\vee$	LOGICAL OR WITH DOT ABOVE
2A53	$\text{AND}$	DOUBLE LOGICAL AND
2A54	$\text{OR}$	DOUBLE LOGICAL OR
2A55	$\text{AND}$	TWO INTERSECTING LOGICAL AND → 2A07 $\text{AND}$ two logical and operator
2A56	$\text{OR}$	TWO INTERSECTING LOGICAL OR → 2A08 $\text{OR}$ two logical or operator
2A57	$\nearrow$	SLOPING LARGE OR
2A58	$\nwarrow$	SLOPING LARGE AND
2A59	$\times$	LOGICAL OR OVERLAPPING LOGICAL AND
2A5A	$\text{AND}$	LOGICAL AND WITH MIDDLE STEM
2A5B	$\text{OR}$	LOGICAL OR WITH MIDDLE STEM
2A5C	$\text{AND}$	LOGICAL AND WITH HORIZONTAL DASH
2A5D	$\text{OR}$	LOGICAL OR WITH HORIZONTAL DASH
2A5E	$\overline{\text{AND}}$	LOGICAL AND WITH DOUBLE OVERBAR → 2306 $\overline{\text{AND}}$ perspective
2A5F	$\underline{\text{AND}}$	LOGICAL AND WITH UNDERBAR
2A60	$\underline{\text{AND}}$	LOGICAL AND WITH DOUBLE UNDERBAR → 2259 $\underline{\text{AND}}$ estimates
2A61	$\underline{\vee}$	SMALL VEE WITH UNDERBAR → 225A $\underline{\vee}$ equiangular to
2A62	$\overline{\vee}$	LOGICAL OR WITH DOUBLE OVERBAR
2A63	$\underline{\vee}$	LOGICAL OR WITH DOUBLE UNDERBAR → 225A $\underline{\vee}$ equiangular to

**Miscellaneous mathematical operators**

2A64	$\triangleleft$	Z NOTATION DOMAIN ANTIRESTRICTION
2A65	$\triangleright$	Z NOTATION RANGE ANTIRESTRICTION → 2332 $\triangleright$ conical taper

**Relational operators**

2A66	$\doteq$	EQUALS SIGN WITH DOT BELOW → 2250 $\doteq$ approaches the limit
2A67	$\equiv$	IDENTICAL WITH DOT ABOVE
2A68	$\equiv$	TRIPLE HORIZONTAL BAR WITH DOUBLE VERTICAL STROKE = identical and parallel to → 22D5 $\equiv$ equal and parallel to → 29E5 $\equiv$ identical to and slanted parallel
2A69	$\equiv$	TRIPLE HORIZONTAL BAR WITH TRIPLE VERTICAL STROKE
2A6A	$\sim$	TILDE OPERATOR WITH DOT ABOVE
2A6B	$\rightsquigarrow$	TILDE OPERATOR WITH RISING DOTS → 223B $\rightsquigarrow$ homothetic

2A6C	$\approx$	SIMILAR MINUS SIMILAR
2A6D	$\cong$	CONGRUENT WITH DOT ABOVE → 2245 $\cong$ approximately equal to
2A6E	$\equiv$	EQUALS WITH ASTERISK → 225B $\equiv$ star equals
2A6F	$\approx$	ALMOST EQUAL TO WITH CIRCUMFLEX ACCENT
2A70	$\approx$	APPROXIMATELY EQUAL OR EQUAL TO
2A71	$\pm$	EQUALS SIGN ABOVE PLUS SIGN • black stands slightly better (chess notation)
2A72	$\pm$	PLUS SIGN ABOVE EQUALS SIGN • white stands slightly better (chess notation)
2A73	$\equiv$	EQUALS SIGN ABOVE TILDE OPERATOR
2A74	$::=$	DOUBLE COLON EQUAL $\approx$ 003A : 003A : 003D =
2A75	$==$	TWO CONSECUTIVE EQUALS SIGNS $\approx$ 003D = 003D =
2A76	$===$	THREE CONSECUTIVE EQUALS SIGNS $\approx$ 003D = 003D = 003D =
2A77	$\equiv$	EQUALS SIGN WITH TWO DOTS ABOVE AND TWO DOTS BELOW
2A78	$\equiv$	EQUIVALENT WITH FOUR DOTS ABOVE
2A79	$\triangleleft$	LESS-THAN WITH CIRCLE INSIDE
2A7A	$\triangleright$	GREATER-THAN WITH CIRCLE INSIDE
2A7B	$\triangleleft$	LESS-THAN WITH QUESTION MARK ABOVE
2A7C	$\triangleright$	GREATER-THAN WITH QUESTION MARK ABOVE
2A7D	$\triangleleft$	LESS-THAN OR SLANTED EQUAL TO → 2264 $\triangleleft$ less-than or equal to
2A7E	$\triangleright$	GREATER-THAN OR SLANTED EQUAL TO → 2265 $\triangleright$ greater-than or equal to
2A7F	$\triangleleft$	LESS-THAN OR SLANTED EQUAL TO WITH DOT INSIDE
2A80	$\triangleright$	GREATER-THAN OR SLANTED EQUAL TO WITH DOT INSIDE
2A81	$\triangleleft$	LESS-THAN OR SLANTED EQUAL TO WITH DOT ABOVE
2A82	$\triangleright$	GREATER-THAN OR SLANTED EQUAL TO WITH DOT ABOVE
2A83	$\triangleleft$	LESS-THAN OR SLANTED EQUAL TO WITH DOT ABOVE RIGHT
2A84	$\triangleright$	GREATER-THAN OR SLANTED EQUAL TO WITH DOT ABOVE LEFT
2A85	$\approx$	LESS-THAN OR APPROXIMATE
2A86	$\approx$	GREATER-THAN OR APPROXIMATE
2A87	$\napprox$	LESS-THAN AND SINGLE-LINE NOT EQUAL TO → 2268 $\napprox$ less-than but not equal to
2A88	$\napprox$	GREATER-THAN AND SINGLE-LINE NOT EQUAL TO → 2269 $\napprox$ greater-than but not equal to
2A89	$\napprox$	LESS-THAN AND NOT APPROXIMATE
2A8A	$\napprox$	GREATER-THAN AND NOT APPROXIMATE
2A8B	$\equiv$	LESS-THAN ABOVE DOUBLE-LINE EQUAL ABOVE GREATER-THAN → 22DA $\equiv$ less-than equal to or greater-than
2A8C	$\equiv$	GREATER-THAN ABOVE DOUBLE-LINE EQUAL ABOVE LESS-THAN → 22DB $\equiv$ greater-than equal to or less-than
2A8D	$\approx$	LESS-THAN ABOVE SIMILAR OR EQUAL
2A8E	$\approx$	GREATER-THAN ABOVE SIMILAR OR EQUAL
2A8F	$\approx$	LESS-THAN ABOVE SIMILAR ABOVE GREATER-THAN
2A90	$\approx$	GREATER-THAN ABOVE SIMILAR ABOVE LESS-THAN

2A91	≡	LESS-THAN ABOVE GREATER-THAN ABOVE DOUBLE-LINE EQUAL
2A92	≡	GREATER-THAN ABOVE LESS-THAN ABOVE DOUBLE-LINE EQUAL
2A93	≡	LESS-THAN ABOVE SLANTED EQUAL ABOVE GREATER-THAN ABOVE SLANTED EQUAL
2A94	≡	GREATER-THAN ABOVE SLANTED EQUAL ABOVE LESS-THAN ABOVE SLANTED EQUAL
2A95	≡	SLANTED EQUAL TO OR LESS-THAN → 22DC ≡ equal to or less-than
2A96	≡	SLANTED EQUAL TO OR GREATER-THAN → 22DD ≡ equal to or greater-than
2A97	≡	SLANTED EQUAL TO OR LESS-THAN WITH DOT INSIDE
2A98	≡	SLANTED EQUAL TO OR GREATER-THAN WITH DOT INSIDE
2A99	≡	DOUBLE-LINE EQUAL TO OR LESS-THAN → 22DC ≡ equal to or less-than
2A9A	≡	DOUBLE-LINE EQUAL TO OR GREATER-THAN → 22DD ≡ equal to or greater-than
2A9B	≡	DOUBLE-LINE SLANTED EQUAL TO OR LESS-THAN
2A9C	≡	DOUBLE-LINE SLANTED EQUAL TO OR GREATER-THAN
2A9D	≡	SIMILAR OR LESS-THAN
2A9E	≡	SIMILAR OR GREATER-THAN
2A9F	≡	SIMILAR ABOVE LESS-THAN ABOVE EQUALS SIGN
2AA0	≡	SIMILAR ABOVE GREATER-THAN ABOVE EQUALS SIGN
2AA1	≡	DOUBLE NESTED LESS-THAN = absolute continuity → 226A ≡ much less-than
2AA2	≡	DOUBLE NESTED GREATER-THAN → 226B ≡ much greater-than
2AA3	≡	DOUBLE NESTED LESS-THAN WITH UNDERBAR
2AA4	≡	GREATER-THAN OVERLAPPING LESS-THAN
2AA5	≡	GREATER-THAN BESIDE LESS-THAN
2AA6	≡	LESS-THAN CLOSED BY CURVE
2AA7	≡	GREATER-THAN CLOSED BY CURVE
2AA8	≡	LESS-THAN CLOSED BY CURVE ABOVE SLANTED EQUAL
2AA9	≡	GREATER-THAN CLOSED BY CURVE ABOVE SLANTED EQUAL
2AAA	≡	SMALLER THAN
2AAB	≡	LARGER THAN
2AAC	≡	SMALLER THAN OR EQUAL TO
2AAD	≡	LARGER THAN OR EQUAL TO
2AAE	≡	EQUALS SIGN WITH BUMPY ABOVE → 224F ≡ difference between
2AAF	≡	PRECEDES ABOVE SINGLE-LINE EQUALS SIGN → 227C ≡ precedes or equal to
2AB0	≡	SUCCEEDS ABOVE SINGLE-LINE EQUALS SIGN → 227D ≡ succeeds or equal to
2AB1	≡	PRECEDES ABOVE SINGLE-LINE NOT EQUAL TO
2AB2	≡	SUCCEEDS ABOVE SINGLE-LINE NOT EQUAL TO
2AB3	≡	PRECEDES ABOVE EQUALS SIGN
2AB4	≡	SUCCEEDS ABOVE EQUALS SIGN
2AB5	≡	PRECEDES ABOVE NOT EQUAL TO
2AB6	≡	SUCCEEDS ABOVE NOT EQUAL TO
2AB7	≡	PRECEDES ABOVE ALMOST EQUAL TO
2AB8	≡	SUCCEEDS ABOVE ALMOST EQUAL TO
2AB9	≡	PRECEDES ABOVE NOT ALMOST EQUAL TO

2ABA	≡	SUCCEEDS ABOVE NOT ALMOST EQUAL TO
2ABB	≡	DOUBLE PRECEDES
2ABC	≡	DOUBLE SUCCEEDS
<b>Subset and superset relations</b>		
2ABD	≡	SUBSET WITH DOT
2ABE	≡	SUPERSET WITH DOT
2ABF	≡	SUBSET WITH PLUS SIGN BELOW
2AC0	≡	SUPERSET WITH PLUS SIGN BELOW
2AC1	≡	SUBSET WITH MULTIPLICATION SIGN BELOW
2AC2	≡	SUPERSET WITH MULTIPLICATION SIGN BELOW
2AC3	≡	SUBSET OF OR EQUAL TO WITH DOT ABOVE
2AC4	≡	SUPERSET OF OR EQUAL TO WITH DOT ABOVE
2AC5	≡	SUBSET OF ABOVE EQUALS SIGN
2AC6	≡	SUPERSET OF ABOVE EQUALS SIGN
2AC7	≡	SUBSET OF ABOVE TILDE OPERATOR
2AC8	≡	SUPERSET OF ABOVE TILDE OPERATOR
2AC9	≡	SUBSET OF ABOVE ALMOST EQUAL TO
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

**Forks**

2AD9	≡	ELEMENT OF OPENING DOWNWARDS → 2208 ≡ element of → 27D2 ≡ element of opening upwards
2ADA	≡	PITCHFORK WITH TEE TOP → 22D4 ≡ pitchfork
2ADB	≡	TRANSVERSAL INTERSECTION → 22D4 ≡ pitchfork
2ADC	≡	FORKING = not independent • an equational logic symbol, not a computing science symbol • non-independence (original concept) is related to forking ≡ 2ADD ≡ 0338 ≠
2ADD	≡	NONFORKING = independent • an equational logic symbol, not a computing science symbol • independence (original concept) is related to non-forking

**Tacks and turnstiles**

2ADE	≡	SHORT LEFT TACK → 22A3 ≡ left tack
2ADF	≡	SHORT DOWN TACK → 22A4 ≡ down tack

2AE0	$\perp$	SHORT UP TACK → 22A5 $\perp$ up tack
2AE1	$\perp\!\!\!\perp$	PERPENDICULAR WITH S
2AE2	$\equiv$	VERTICAL BAR TRIPLE RIGHT TURNSTILE = ordinarily satisfies
2AE3	$\dashv$	DOUBLE VERTICAL BAR LEFT TURNSTILE → 22A9 $\dashv$ forces
2AE4	$\Rightarrow$	VERTICAL BAR DOUBLE LEFT TURNSTILE → 22A8 $\Rightarrow$ true
2AE5	$\Rightarrow\!\!\!\Rightarrow$	DOUBLE VERTICAL BAR DOUBLE LEFT TURNSTILE
2AE6	$\Vdash$	LONG DASH FROM LEFT MEMBER OF DOUBLE VERTICAL → 22A9 $\Vdash$ forces
2AE7	$\overline{\dashv}$	SHORT DOWN TACK WITH OVERBAR → 22A4 $\overline{\dashv}$ down tack → 2351 $\overline{\dashv}$ apl functional symbol up tack overbar
2AE8	$\underline{\perp}$	SHORT UP TACK WITH UNDERBAR → 22A5 $\perp$ up tack → 234A $\underline{\perp}$ apl functional symbol down tack underbar
2AE9	$\overline{\perp}$	SHORT UP TACK ABOVE SHORT DOWN TACK
2AEA	$\overline{\overline{\dashv}}$	DOUBLE DOWN TACK
2AEB	$\perp\!\!\!\perp$	DOUBLE UP TACK = independence • probability theory
2AEC	$\Rightarrow$	DOUBLE STROKE NOT SIGN → 00AC $\Rightarrow$ not sign
2AED	$\Leftarrow$	REVERSED DOUBLE STROKE NOT SIGN → 2310 $\Leftarrow$ reversed not sign

**Vertical line operators**

2AEE	$\nmid$	DOES NOT DIVIDE WITH REVERSED NEGATION SLASH → 2224 $\nmid$ does not divide
2AEF	$\Uparrow$	VERTICAL LINE WITH CIRCLE ABOVE
2AF0	$\Downarrow$	VERTICAL LINE WITH CIRCLE BELOW
2AF1	$\Downarrow$	DOWN TACK WITH CIRCLE BELOW = necessarily satisfies → 27DF $\Downarrow$ up tack with circle above
2AF2	$\nparallel$	PARALLEL WITH HORIZONTAL STROKE → 2226 $\nparallel$ not parallel to → 27CA $\nparallel$ vertical bar with horizontal stroke
2AF3	$\nparallel$	PARALLEL WITH TILDE OPERATOR
2AF4	$\equiv$	TRIPLE VERTICAL BAR BINARY RELATION = interleave → 2980 $\equiv$ triple vertical bar delimiter
2AF5	$\equiv$	TRIPLE VERTICAL BAR WITH HORIZONTAL STROKE → 27CA $\nparallel$ vertical bar with horizontal stroke

**Miscellaneous mathematical operator**

2AF6	$\vdots$	TRIPLE COLON OPERATOR • logic → 205D $\vdots$ tricolon → 22EE $\vdots$ vertical ellipsis
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


















































































**Relations**

2AF7	$\lll$	TRIPLE NESTED LESS-THAN → 22D8 $\lll$ very much less-than
2AF8	$\ggg$	TRIPLE NESTED GREATER-THAN → 22D9 $\ggg$ very much greater-than
2AF9	$\leq$	DOUBLE-LINE SLANTED LESS-THAN OR EQUAL TO → 2266 $\leq$ less-than over equal to

2AFA	$\geq$	DOUBLE-LINE SLANTED GREATER-THAN OR EQUAL TO → 2267 $\geq$ greater-than over equal to
2AFB	$\equiv$	TRIPLE SOLIDUS BINARY RELATION → 2AF4 $\equiv$ triple vertical bar binary relation

**Operators**

2AFC	$\equiv$	LARGE TRIPLE VERTICAL BAR OPERATOR • often n-ary → 2AF4 $\equiv$ triple vertical bar binary relation → 2980 $\equiv$ triple vertical bar delimiter
2AFD	$\parallel$	DOUBLE SOLIDUS OPERATOR → 2225 $\parallel$ parallel to
2AFE	$\parallel$	WHITE VERTICAL BAR = Dijkstra choice
2AFF	$\parallel$	N-ARY WHITE VERTICAL BAR = n-ary Dijkstra choice

	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

**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	↔	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	<b>Dictionary and map symbols from ARIB STD B24</b>
2B3D	⇐	LEFTWARDS TWO-HEADED ARROW WITH TAIL WITH DOUBLE VERTICAL STROKE → 2918 ⇐ rightwards two-headed arrow with tail with double vertical stroke	2B56 ○ HEAVY OVAL WITH OVAL INSIDE = prefectural office
2B3E	⇐	LEFTWARDS ARROW THROUGH X → 2947 ⇐ rightwards arrow through x	2B57 ○ HEAVY CIRCLE WITH CIRCLE INSIDE = municipal office → 25CE ○ bullseye
2B3F	↶	WAVE ARROW POINTING DIRECTLY LEFT → 2933 ↶ wave arrow pointing directly right → 219C ↶ leftwards wave arrow	2B58 ○ HEAVY CIRCLE = town or village office → 25CB ○ white circle
2B40	⇌	EQUALS SIGN ABOVE LEFTWARDS ARROW → 2971 ⇌ equals sign above rightwards arrow	2B59 ⊗ HEAVY CIRCLED SALTIRE = police station → 2A02 ⊗ n-ary circled times operator
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
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	2C0	2C1	2C2	2C3	2C4	2C5
0	 2C00	 2C10	 2C20	 2C30	 2C40	 2C50
1	 2C01	 2C11	 2C21	 2C31	 2C41	 2C51
2	 2C02	 2C12	 2C22	 2C32	 2C42	 2C52
3	 2C03	 2C13	 2C23	 2C33	 2C43	 2C53
4	 2C04	 2C14	 2C24	 2C34	 2C44	 2C54
5	 2C05	 2C15	 2C25	 2C35	 2C45	 2C55
6	 2C06	 2C16	 2C26	 2C36	 2C46	 2C56
7	 2C07	 2C17	 2C27	 2C37	 2C47	 2C57
8	 2C08	 2C18	 2C28	 2C38	 2C48	 2C58
9	 2C09	 2C19	 2C29	 2C39	 2C49	 2C59
A	 2C0A	 2C1A	 2C2A	 2C3A	 2C4A	 2C5A
B	 2C0B	 2C1B	 2C2B	 2C3B	 2C4B	 2C5B
C	 2C0C	 2C1C	 2C2C	 2C3C	 2C4C	 2C5C
D	 2C0D	 2C1D	 2C2D	 2C3D	 2C4D	 2C5D
E	 2C0E	 2C1E	 2C2E	 2C3E	 2C4E	 2C5E
F	 2C0F	 2C1F		 2C3F	 2C4F	

**Capital letters**

2C00	ⱦ	GLAGOLITIC CAPITAL LETTER AZU
2C01	Ⱨ	GLAGOLITIC CAPITAL LETTER BUKY
2C02	ⱨ	GLAGOLITIC CAPITAL LETTER VEDE
2C03	Ⱪ	GLAGOLITIC CAPITAL LETTER GLAGOLI
2C04	ⱪ	GLAGOLITIC CAPITAL LETTER DOBRO
2C05	ⱬ	GLAGOLITIC CAPITAL LETTER YESTU
2C06	Ɑ	GLAGOLITIC CAPITAL LETTER ZHIVETE
2C07	Ɱ	GLAGOLITIC CAPITAL LETTER DZELO
2C08	Ɐ	GLAGOLITIC CAPITAL LETTER ZEMLJA
2C09	Ɒ	GLAGOLITIC CAPITAL LETTER IZHE
2C0A	ⱱ	GLAGOLITIC CAPITAL LETTER INITIAL IZHE
2C0B	Ⱳ	GLAGOLITIC CAPITAL LETTER I
2C0C	ⱳ	GLAGOLITIC CAPITAL LETTER DJERVI
2C0D	ⱴ	GLAGOLITIC CAPITAL LETTER KAKO
2C0E	Ⱶ	GLAGOLITIC CAPITAL LETTER LJUDIJE
2C0F	ⱶ	GLAGOLITIC CAPITAL LETTER MYSLITE
2C10	ⱷ	GLAGOLITIC CAPITAL LETTER NASHI
2C11	ⱸ	GLAGOLITIC CAPITAL LETTER ONU
2C12	ⱹ	GLAGOLITIC CAPITAL LETTER POKOJI
2C13	ⱺ	GLAGOLITIC CAPITAL LETTER RITSI
2C14	ⱻ	GLAGOLITIC CAPITAL LETTER SLOVO
2C15	ⱼ	GLAGOLITIC CAPITAL LETTER TVRIDO
2C16	ⱽ	GLAGOLITIC CAPITAL LETTER UKU
2C17	Ȿ	GLAGOLITIC CAPITAL LETTER FRITU
2C18	Ɀ	GLAGOLITIC CAPITAL LETTER HERU
2C19	Ȿ	GLAGOLITIC CAPITAL LETTER OTU
2C1A	Ɀ	GLAGOLITIC CAPITAL LETTER PE
2C1B	Ȿ	GLAGOLITIC CAPITAL LETTER SHTA
2C1C	Ȿ	GLAGOLITIC CAPITAL LETTER TSI
2C1D	Ȿ	GLAGOLITIC CAPITAL LETTER CHRIVI
2C1E	Ȿ	GLAGOLITIC CAPITAL LETTER SHA
2C1F	Ȿ	GLAGOLITIC CAPITAL LETTER YERU
2C20	Ȿ	GLAGOLITIC CAPITAL LETTER YERI
2C21	Ȿ	GLAGOLITIC CAPITAL LETTER YATI
2C22	Ȿ	GLAGOLITIC CAPITAL LETTER SPIDERY HA
2C23	Ȿ	GLAGOLITIC CAPITAL LETTER YU
2C24	Ȿ	GLAGOLITIC CAPITAL LETTER SMALL YUS
2C25	Ȿ	GLAGOLITIC CAPITAL LETTER SMALL YUS WITH TAIL
2C26	Ȿ	GLAGOLITIC CAPITAL LETTER YO
2C27	Ȿ	GLAGOLITIC CAPITAL LETTER IOTATED SMALL YUS
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	Ⱨ	GLAGOLITIC SMALL LETTER BUKY
2C32	ⱨ	GLAGOLITIC SMALL LETTER VEDE
2C33	Ⱪ	GLAGOLITIC SMALL LETTER GLAGOLI
2C34	ⱪ	GLAGOLITIC SMALL LETTER DOBRO
2C35	ⱬ	GLAGOLITIC SMALL LETTER YESTU
2C36	Ɑ	GLAGOLITIC SMALL LETTER ZHIVETE
2C37	Ɱ	GLAGOLITIC SMALL LETTER DZELO
2C38	Ɐ	GLAGOLITIC SMALL LETTER ZEMLJA

2C39	Ɒ	GLAGOLITIC SMALL LETTER IZHE
2C3A	ⱱ	GLAGOLITIC SMALL LETTER INITIAL IZHE → A647 ⱱ cyrillic small letter iota
2C3B	Ⱳ	GLAGOLITIC SMALL LETTER I
2C3C	ⱳ	GLAGOLITIC SMALL LETTER DJERVI
2C3D	ⱴ	GLAGOLITIC SMALL LETTER KAKO
2C3E	Ⱶ	GLAGOLITIC SMALL LETTER LJUDIJE
2C3F	ⱶ	GLAGOLITIC SMALL LETTER MYSLITE
2C40	ⱷ	GLAGOLITIC SMALL LETTER NASHI
2C41	ⱸ	GLAGOLITIC SMALL LETTER ONU
2C42	ⱹ	GLAGOLITIC SMALL LETTER POKOJI
2C43	ⱺ	GLAGOLITIC SMALL LETTER RITSI
2C44	ⱻ	GLAGOLITIC SMALL LETTER SLOVO
2C45	ⱼ	GLAGOLITIC SMALL LETTER TVRIDO
2C46	ⱽ	GLAGOLITIC SMALL LETTER UKU
2C47	Ȿ	GLAGOLITIC SMALL LETTER FRITU
2C48	Ɀ	GLAGOLITIC SMALL LETTER HERU
2C49	Ȿ	GLAGOLITIC SMALL LETTER OTU
2C4A	Ɀ	GLAGOLITIC SMALL LETTER PE
2C4B	Ȿ	GLAGOLITIC SMALL LETTER SHTA
2C4C	Ȿ	GLAGOLITIC SMALL LETTER TSI
2C4D	Ȿ	GLAGOLITIC SMALL LETTER CHRIVI
2C4E	Ȿ	GLAGOLITIC SMALL LETTER SHA
2C4F	Ȿ	GLAGOLITIC SMALL LETTER YERU
2C50	Ȿ	GLAGOLITIC SMALL LETTER YERI
2C51	Ȿ	GLAGOLITIC SMALL LETTER YATI
2C52	Ȿ	GLAGOLITIC SMALL LETTER SPIDERY HA
2C53	Ȿ	GLAGOLITIC SMALL LETTER YU
2C54	Ȿ	GLAGOLITIC SMALL LETTER SMALL YUS
2C55	Ȿ	GLAGOLITIC SMALL LETTER SMALL YUS WITH TAIL
2C56	Ȿ	GLAGOLITIC SMALL LETTER YO
2C57	Ȿ	GLAGOLITIC SMALL LETTER IOTATED SMALL YUS
2C58	Ȿ	GLAGOLITIC SMALL LETTER BIG YUS
2C59	Ȿ	GLAGOLITIC SMALL LETTER IOTATED BIG YUS
2C5A	Ȿ	GLAGOLITIC SMALL LETTER FITA
2C5B	Ȿ	GLAGOLITIC SMALL LETTER IZHITSA
2C5C	Ȿ	GLAGOLITIC SMALL LETTER SHTAPIC
2C5D	Ȿ	GLAGOLITIC SMALL LETTER TROKUTASTI A
2C5E	Ȿ	GLAGOLITIC SMALL LETTER LATINATE MYSLITE

	2C6	2C7
0	Ł 2C60	Đ 2C70
1	ł 2C61	đ 2C71
2	Ł 2C62	Ŵ 2C72
3	Ų 2C63	ŵ 2C73
4	Ŕ 2C64	ŗ 2C74
5	Ǻ 2C65	ƒ 2C75
6	ƚ 2C66	Ƒ 2C76
7	Ƣ 2C67	ϯ 2C77
8	ƥ 2C68	Ʒ 2C78
9	Ƙ 2C69	ƙ 2C79
A	ƚ 2C6A	Ʒ 2C7A
B	ƚ 2C6B	Ʒ 2C7B
C	ƚ 2C6C	Ʒ 2C7C
D	ƚ 2C6D	Ʒ 2C7D
E	ƚ 2C6E	Ʒ 2C7E
F	ƚ 2C6F	Ʒ 2C7F

**Orthographic Latin additions**

- 2C60 Ł LATIN CAPITAL LETTER L WITH DOUBLE BAR  
 2C61 ł LATIN SMALL LETTER L WITH DOUBLE BAR  
 2C62 Ľ LATIN CAPITAL LETTER L WITH MIDDLE TILDE  
 • lowercase is 026B ľ  
 2C63 Ꞥ LATIN CAPITAL LETTER P WITH STROKE  
 • lowercase is 1D7D ꞥ  
 2C64 Ꞥ LATIN CAPITAL LETTER R WITH TAIL  
 • lowercase is 027D ꞥ  
 2C65 Ꞥ LATIN SMALL LETTER A WITH STROKE  
 • uppercase is 023A Å  
 2C66 Ꞥ LATIN SMALL LETTER T WITH DIAGONAL STROKE  
 • uppercase is 023E Ꞥ

**Additions for Uighur**

- 2C67 𐰢 LATIN CAPITAL LETTER H WITH DESCENDER  
 2C68 𐰣 LATIN SMALL LETTER H WITH DESCENDER  
 2C69 𐰤 LATIN CAPITAL LETTER K WITH DESCENDER  
 2C6A 𐰥 LATIN SMALL LETTER K WITH DESCENDER  
 2C6B 𐰦 LATIN CAPITAL LETTER Z WITH DESCENDER  
 2C6C 𐰧 LATIN SMALL LETTER Z WITH DESCENDER

**Miscellaneous additions**

- 2C6D 𐰨 LATIN CAPITAL LETTER ALPHA  
 • lowercase is 0251 𐰩  
 2C6E 𐰪 LATIN CAPITAL LETTER M WITH HOOK  
 • lowercase is 0271 𐰫  
 2C6F 𐰬 LATIN CAPITAL LETTER TURNED A  
 • lowercase is 0250 𐰭  
 2C70 𐰮 LATIN CAPITAL LETTER TURNED ALPHA  
 • lowercase is 0252 𐰯  
 2C71 𐰱 LATIN SMALL LETTER V WITH RIGHT HOOK  
 2C72 𐰲 LATIN CAPITAL LETTER W WITH HOOK  
 2C73 𐰳 LATIN SMALL LETTER W WITH HOOK  
 2C74 𐰴 LATIN SMALL LETTER V WITH CURL

**Claudian letters**

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

- 2C75 𐌀 LATIN CAPITAL LETTER HALF H  
 → 0370 𐌀 greek capital letter heta  
 → 2132 𐌀 turned capital f  
 → 2183 𐌀 roman numeral reversed one hundred  
 2C76 𐌁 LATIN SMALL LETTER HALF H  
 → 0371 𐌁 greek small letter heta

**Additions for UPA**

- 2C77 𐌲 LATIN SMALL LETTER TAILLESS PHI  
 • medium rounded o  
 2C78 𐌳 LATIN SMALL LETTER E WITH NOTCH  
 2C79 𐌴 LATIN SMALL LETTER TURNED R WITH TAIL  
 2C7A 𐌵 LATIN SMALL LETTER O WITH LOW RING INSIDE  
 2C7B 𐌶 LATIN LETTER SMALL CAPITAL TURNED E  
 2C7C 𐌷 LATIN SUBSCRIPT SMALL LETTER J  
 ≈ <sub> 006A j  
 2C7D 𐌸 MODIFIER LETTER CAPITAL V  
 ≈ <super> 0056 V

**Additions for Shona**

- 2C7E 𐌹 LATIN CAPITAL LETTER S WITH SWASH TAIL  
 • lower case is 023F 𐌺

- 2C7F 𐌻 LATIN CAPITAL LETTER Z WITH SWASH TAIL  
 • lower case is 0240 𐌼

	2C8	2C9	2CA	2CB	2CC	2CD	2CE	2CF
0	Ⲁ 2C80	Ⲑ 2C90	Ⲡ 2CA0	ⲡ 2CB0	Ⲣ 2CC0	ⲣ 2CD0	Ⲥ 2CE0	ⲥ 2CF0
1	ⲁ 2C81	ⲑ 2C91	ⲡ 2CA1	Ⲣ 2CB1	ⲣ 2CC1	Ⲥ 2CD1	ⲥ 2CE1	Ⲧ 2CF1
2	Ⲃ 2C82	Ⲓ 2C92	ⲣ 2CA2	ⲣ 2CB2	ⲥ 2CC2	ⲧ 2CD2	Ⲩ 2CE2	
3	ⲃ 2C83	ⲓ 2C93	Ⲥ 2CA3	ⲥ 2CB3	Ⲧ 2CC3	ⲧ 2CD3	Ⲩ 2CE3	
4	Ⲅ 2C84	Ⲕ 2C94	Ⲇ 2CA4	ⲧ 2CB4	Ⲩ 2CC4	ⲩ 2CD4	Ⲫ 2CE4	
5	ⲅ 2C85	ⲕ 2C95	ⲇ 2CA5	Ⲩ 2CB5	ⲩ 2CC5	Ⲫ 2CD5	ⲫ 2CE5	
6	Ⲇ 2C86	Ⲍ 2C96	Ⲉ 2CA6	ⲩ 2CB6	Ⲫ 2CC6	ⲫ 2CD6	Ⲭ 2CE6	
7	ⲇ 2C87	ⲍ 2C97	ⲉ 2CA7	Ⲫ 2CB7	ⲫ 2CC7	Ⲭ 2CD7	ⲭ 2CE7	
8	Ⲉ 2C88	Ⲏ 2C98	Ⲋ 2CA8	ⲫ 2CB8	Ⲭ 2CC8	ⲭ 2CD8	Ⲯ 2CE8	
9	ⲉ 2C89	ⲏ 2C99	ⲋ 2CA9	Ⲭ 2CB9	ⲭ 2CC9	Ⲯ 2CD9	ⲯ 2CE9	Ⲱ 2CF9
A	Ⲋ 2C8A	Ⲑ 2C9A	ⲍ 2CAA	Ⲯ 2CBA	ⲱ 2CCA	Ⲳ 2CDA	ⲳ 2CEA	Ⲵ 2CFA
B	ⲋ 2C8B	ⲑ 2C9B	Ⲏ 2CAB	ⲯ 2CBB	Ⲳ 2CCB	ⲳ 2CDB	Ⲵ 2CEB	ⲵ 2CFB
C	Ⲍ 2C8C	Ⲓ 2C9C	ⲏ 2CAC	Ⲱ 2CBC	ⲳ 2CCC	Ⲵ 2CDC	ⲵ 2CEC	Ⲷ 2CFC
D	ⲍ 2C8D	ⲓ 2C9D	Ⲑ 2CAD	ⲱ 2CBD	Ⲵ 2CCD	ⲵ 2CDD	Ⲷ 2CED	ⲷ 2CFD
E	Ⲏ 2C8E	Ⲕ 2C9E	ⲑ 2CAE	Ⲳ 2CBE	ⲳ 2CCE	Ⲵ 2CDE	ⲵ 2CEE	Ⲷ 2CFE
F	ⲏ 2C8F	ⲕ 2C9F	ⲓ 2CAF	Ⲵ 2CBF	ⲵ 2CCF	Ⲷ 2CDF	ⲷ 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	Ⲗ	COPTIC CAPITAL LETTER OLD NUBIAN NYI
2CE1	ⲗ	COPTIC SMALL LETTER OLD NUBIAN NYI
2CE2	Ⲙ	COPTIC CAPITAL LETTER OLD NUBIAN WAU
2CE3	ⲙ	COPTIC SMALL LETTER OLD NUBIAN WAU

### Symbols

2CE4	Ⲛ	COPTIC SYMBOL KAI → 03D7 Ⲛ greek kai symbol
2CE5	ⲛ	COPTIC SYMBOL MI RO
2CE6	Ⲝ	COPTIC SYMBOL PI RO
2CE7	ⲝ	COPTIC SYMBOL STAUROS
2CE8	Ⲟ	COPTIC SYMBOL TAU RO
2CE9	ⲟ	COPTIC SYMBOL KHI RO → 2627 ⲟ chi rho
2CEA	Ⲡ	COPTIC SYMBOL SHIMA SIMA

### Cryptogrammic letters

2CEB	Ⲛ	COPTIC CAPITAL LETTER CRYPTOGRAMMIC SHEI
2CEC	ⲛ	COPTIC SMALL LETTER CRYPTOGRAMMIC SHEI



2CED 𐌌 COPTIC CAPITAL LETTER CRYPTOGRAMMIC  
GANGIA

2CEE 𐌍 COPTIC SMALL LETTER CRYPTOGRAMMIC  
GANGIA

#### Combining marks

2CEF 𐌐 COPTIC COMBINING NI ABOVE  
 • this mark is used in final position and extends  
 above the following character (usually a space)

2CF0 𐌑 COPTIC COMBINING SPIRITUS ASPER  
 → 0314 𐌑 combining reversed comma above  
 → 0485 𐌑 combining cyrillic dasia pneumata

2CF1 𐌒 COPTIC COMBINING SPIRITUS LENIS  
 → 0313 𐌒 combining comma above  
 → 0486 𐌒 combining cyrillic psili pneumata

#### Old Nubian punctuation

2CF9 𐌚 COPTIC OLD NUBIAN FULL STOP

2CFA 𐌛 COPTIC OLD NUBIAN DIRECT QUESTION MARK

2CFB 𐌜 COPTIC OLD NUBIAN INDIRECT QUESTION  
MARK

2CFC 𐌝 COPTIC OLD NUBIAN VERSE DIVIDER

#### Numeric character

2CFD 𐌞 COPTIC FRACTION ONE HALF

#### Punctuation

2CFE 𐌟 COPTIC FULL STOP


























































2CFF 𐌠 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	Ⴊ 2D0D	Ⴋ 2D1D	
E	Ⴌ 2D0E	Ⴍ 2D1E	
F	Ⴎ 2D0F	Ⴏ 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	 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	 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	I	TIFINAGH LETTER YAZH
2D4B	×	TIFINAGH LETTER AHAGGAR YAZH
2D4C	#	TIFINAGH LETTER TUAREG YAZH
2D4D	⌈	TIFINAGH LETTER YAL
2D4E	⌈	TIFINAGH LETTER YAM
2D4F	I	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	◌ <sup>u</sup>	TIFINAGH MODIFIER LETTER LABIALIZATION MARK = tamatart ≈ <super> 2D61 ⌈
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**Punctuation**

2D70	⌈	TIFINAGH SEPARATOR MARK = Tazarast
------	---	---------------------------------------

**Sign**

2D7F		TIFINAGH CONSONANT JOINER • suppresses an inherent vowel • functions to indicate that previous and following character are part of a bi-consonant cluster • shape shown is arbitrary and is not visibly rendered
------	---	---

	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					

**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	ሸ	ETHIOPIC SYLLABLE SHOA
2D85	ቦ	ETHIOPIC SYLLABLE BOA
2D86	ቶ	ETHIOPIC SYLLABLE TOA
2D87	ቾ	ETHIOPIC SYLLABLE COA
2D88	ኖ	ETHIOPIC SYLLABLE NOA
2D89	ኖላ	ETHIOPIC SYLLABLE NYOA
2D8A	አ	ETHIOPIC SYLLABLE GLOTTAL OA
2D8B	ዞ	ETHIOPIC SYLLABLE ZOA
2D8C	ዶ	ETHIOPIC SYLLABLE DOA
2D8D	ደዐ	ETHIOPIC SYLLABLE DDOA
2D8E	ጆ	ETHIOPIC SYLLABLE JOA
2D8F	ጠ	ETHIOPIC SYLLABLE THOA
2D90	ጠላ	ETHIOPIC SYLLABLE CHOA
2D91	ቋ	ETHIOPIC SYLLABLE PHOA
2D92	ፖ	ETHIOPIC SYLLABLE POA

**Syllables for Blin**

2D93	ኸ	ETHIOPIC SYLLABLE GGWA
2D94	ኸላ	ETHIOPIC SYLLABLE GGWI
2D95	ኸላ	ETHIOPIC SYLLABLE GGWEE
2D96	ኸላ	ETHIOPIC SYLLABLE GGWE

**Syllables for Sebatbeit**



















































2DA0	ሸ	ETHIOPIC SYLLABLE SSA
2DA1	ሸላ	ETHIOPIC SYLLABLE SSU
2DA2	ሸላ	ETHIOPIC SYLLABLE SSI
2DA3	ሸላ	ETHIOPIC SYLLABLE SSAA
2DA4	ሸላ	ETHIOPIC SYLLABLE SSEE
2DA5	ሸላ	ETHIOPIC SYLLABLE SSE
2DA6	ሸላ	ETHIOPIC SYLLABLE SSO
2DA7	␣	<reserved>
2DA8	ቸ	ETHIOPIC SYLLABLE CCA
2DA9	ቸላ	ETHIOPIC SYLLABLE CCU
2DAA	ቸላ	ETHIOPIC SYLLABLE CCI
2DAB	ቸላ	ETHIOPIC SYLLABLE CCAA
2DAC	ቸላ	ETHIOPIC SYLLABLE CCEE
2DAD	ቸላ	ETHIOPIC SYLLABLE CCE
2DAE	ቸላ	ETHIOPIC SYLLABLE CCO
2DAF	␣	<reserved>
2DB0	ቸላ	ETHIOPIC SYLLABLE ZZA
2DB1	ቸላ	ETHIOPIC SYLLABLE ZZU
2DB2	ቸላ	ETHIOPIC SYLLABLE ZZI
2DB3	ቸላ	ETHIOPIC SYLLABLE ZZAA
2DB4	ቸላ	ETHIOPIC SYLLABLE ZZEE
2DB5	ቸላ	ETHIOPIC SYLLABLE ZZE
2DB6	ቸላ	ETHIOPIC SYLLABLE ZZO
2DB7	␣	<reserved>
2DB8	፳፱	ETHIOPIC SYLLABLE CCHA
2DB9	፳፱	ETHIOPIC SYLLABLE CCHU
2DBA	፳፱	ETHIOPIC SYLLABLE CCHI
2DBB	፳፱	ETHIOPIC SYLLABLE CCHAA
2DBC	፳፱	ETHIOPIC SYLLABLE CCHEE
2DBD	፳፱	ETHIOPIC SYLLABLE CCHE
2DBE	፳፱	ETHIOPIC SYLLABLE CCHO
2DBF	␣	<reserved>
2DC0	ቸላ	ETHIOPIC SYLLABLE QYA
2DC1	ቸላ	ETHIOPIC SYLLABLE QYU

2DC2	ቸላ	ETHIOPIC SYLLABLE QYI
2DC3	ቸላ	ETHIOPIC SYLLABLE QYAA
2DC4	ቸላ	ETHIOPIC SYLLABLE QYEE
2DC5	ቸላ	ETHIOPIC SYLLABLE QYE
2DC6	ቸላ	ETHIOPIC SYLLABLE QYO
2DC7	␣	<reserved>
2DC8	ኸ	ETHIOPIC SYLLABLE KYA
2DC9	ኸላ	ETHIOPIC SYLLABLE KYU
2DCA	ኸላ	ETHIOPIC SYLLABLE KYI
2DCB	ኸላ	ETHIOPIC SYLLABLE KYAA
2DCC	ኸላ	ETHIOPIC SYLLABLE KYEE
2DCD	ኸላ	ETHIOPIC SYLLABLE KYE
2DCE	ኸላ	ETHIOPIC SYLLABLE KYO
2DCF	␣	<reserved>
2DD0	ኸላ	ETHIOPIC SYLLABLE XYA
2DD1	ኸላ	ETHIOPIC SYLLABLE XYU
2DD2	ኸላ	ETHIOPIC SYLLABLE XYI
2DD3	ኸላ	ETHIOPIC SYLLABLE XYAA
2DD4	ኸላ	ETHIOPIC SYLLABLE XYEE
2DD5	ኸላ	ETHIOPIC SYLLABLE XYE
2DD6	ኸላ	ETHIOPIC SYLLABLE XYO
2DD7	␣	<reserved>
2DD8	ኸላ	ETHIOPIC SYLLABLE GYA
2DD9	ኸላ	ETHIOPIC SYLLABLE GYU
2DDA	ኸላ	ETHIOPIC SYLLABLE GYI
2ddb	ኸላ	ETHIOPIC SYLLABLE GYAA
2DDC	ኸላ	ETHIOPIC SYLLABLE GYEE
2DDD	ኸላ	ETHIOPIC SYLLABLE GYE
2DDE	ኸላ	ETHIOPIC SYLLABLE GYO

	2DE	2DF
0	Ѓ 2DE0	Ѕ 2DF0
	Б 2DE1	Ч 2DF1
1	Г 2DE2	Ш 2DF2
	Д 2DE3	Щ 2DF3
2	Ж 2DE4	Ѡ 2DF4
	З 2DE5	Ѳ 2DF5
3	К 2DE6	а 2DF6
	Л 2DE7	е 2DF7
4	М 2DE8	Ѣ 2DF8
	Н 2DE9	Ѥ 2DF9
5	О 2DEA	Ѧ 2DFA
	П 2DEB	Ю 2DFB
6	Р 2DEC	Ѩ 2DFC
	С 2DED	Ѭ 2DFD
7	Т 2DEE	Ѯ 2DFE
	Х 2DEF	Ѱ 2DFF

**Old Church Slavonic combining letters**

2DE0	Ѡ	COMBINING CYRILIC LETTER BE
2DE1	ѡ	COMBINING CYRILIC LETTER VE
2DE2	Ѣ	COMBINING CYRILIC LETTER GHE
2DE3	ѣ	COMBINING CYRILIC LETTER DE
2DE4	Ѥ	COMBINING CYRILIC LETTER ZHE
2DE5	ѥ	COMBINING CYRILIC LETTER ZE
2DE6	Ѧ	COMBINING CYRILIC LETTER KA
2DE7	ѧ	COMBINING CYRILIC LETTER EL
2DE8	Ѩ	COMBINING CYRILIC LETTER EM → 1DDF Ѩ combining latin letter small capital m
2DE9	ѩ	COMBINING CYRILIC LETTER EN
2DEA	Ѫ	COMBINING CYRILIC LETTER O → 0366 Ѫ combining latin small letter o
2DEB	ѫ	COMBINING CYRILIC LETTER PE
2DEC	Ѭ	COMBINING CYRILIC LETTER ER
2DED	ѭ	COMBINING CYRILIC LETTER ES → 0368 ѭ combining latin small letter c
2DEE	Ѯ	COMBINING CYRILIC LETTER TE
2DEF	ѯ	COMBINING CYRILIC LETTER HA → 036F ѯ combining latin small letter x
2DF0	Ѱ	COMBINING CYRILIC LETTER TSE
2DF1	ѱ	COMBINING CYRILIC LETTER CHE
2DF2	Ѳ	COMBINING CYRILIC LETTER SHA
2DF3	ѳ	COMBINING CYRILIC LETTER SHCHA
2DF4	Ѵ	COMBINING CYRILIC LETTER FITA
2DF5	ѵ	COMBINING CYRILIC LETTER ES-TE
2DF6	Ѷ	COMBINING CYRILIC LETTER A → 0363 Ѷ combining latin small letter a
2DF7	ѷ	COMBINING CYRILIC LETTER IE → 0364 ѷ combining latin small letter e
2DF8	Ѹ	COMBINING CYRILIC LETTER DJERV
2DF9	ѹ	COMBINING CYRILIC LETTER MONOGRAPH UK
2DFA	Ѻ	COMBINING CYRILIC LETTER YAT
2DFB	ѻ	COMBINING CYRILIC LETTER YU
2DFC	Ѽ	COMBINING CYRILIC LETTER IOTIFIED A
2DFD	ѽ	COMBINING CYRILIC LETTER LITTLE YUS
2DFE	Ѿ	COMBINING CYRILIC LETTER BIG YUS
2DFF	ѿ	COMBINING CYRILIC LETTER IOTIFIED BIG YUS

	2E0	2E1	2E2	2E3	2E4	2E5	2E6	2E7
0	 2E00	 2E10	 2E20	 2E30				
1	 2E01	 2E11	 2E21	 2E31				
2	 2E02	 2E12	 2E22					
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	Ⲁ	EDITORIAL CORONIS → 1FBD Ⲁ greek koronis
2E0F	—	PARAGRAPHOS
2E10	Ⲁ	FORKED PARAGRAPHOS
2E11	Ⲁ	REVERSED FORKED PARAGRAPHOS
2E12	Ⲁ	HYPODIASTOLE
2E13	Ⲁ	DOTTED OBELOS • glyph variants may look like ‘÷’ or ‘÷’ → 2052 ⅷ 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	Ⲁ	DOTTED RIGHT-POINTING ANGLE = dipole peristigmene

**Ancient Near-Eastern linguistic symbol**

2E17	Ⲁ	DOUBLE OBLIQUE HYPHEN • used in ancient Near-Eastern linguistics • hyphen in Fraktur text uses 002D - or 2010 - , but with a ‘𐀀’ glyph in Fraktur fonts → 002D - hyphen-minus → 003D = equals sign → 2010 - hyphen
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**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	’	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

	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	フ 2E82	巳 2E92	氷 2EA2	𠂇 2EB2	𠂇 2EC2	𠂇 2ED2	𠂇 2EE2	龜 2EF2
3	乚 2E83	么 2E93	𠂇 2EA3	𠂇 2EB3	𠂇 2EC3	𠂇 2ED3	𠂇 2EE3	𠂇 2EF3
4	𠂇 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	

**CJK radicals supplement**

2E80	𠂇	CJK RADICAL REPEAT	2E99	𠂇	CJK RADICAL RAP
2E81	𠂇	CJK RADICAL CLIFF			• form used on right side
		→ 5382 𠂇			→ 6535 𠂇
2E82	𠂇	CJK RADICAL SECOND ONE	2E9A	𠂇	<reserved>
		→ 4E5B 𠂇	2E9B	𠂇	CJK RADICAL CHOKE
2E83	𠂇	CJK RADICAL SECOND TWO			→ 65E1 𠂇
		→ 4E5A 𠂇	2E9C	𠂇	CJK RADICAL SUN
2E84	𠂇	CJK RADICAL SECOND THREE			→ 65E5 𠂇
		→ 4E59 乙	2E9D	𠂇	CJK RADICAL MOON
2E85	𠂇	CJK RADICAL PERSON			→ 6708 𠂇
		• form used on left side	2E9E	𠂇	CJK RADICAL DEATH
		→ 4EBB 𠂇			→ 6B7A 𠂇
2E86	𠂇	CJK RADICAL BOX	2E9F	𠂇	CJK RADICAL MOTHER
		→ 5182 𠂇			≈ 6BCD 𠂇
2E87	𠂇	CJK RADICAL TABLE	2EA0	𠂇	CJK RADICAL CIVILIAN
		→ 51E0 𠂇			→ 6C11 𠂇
2E88	𠂇	CJK RADICAL KNIFE ONE	2EA1	𠂇	CJK RADICAL WATER ONE
		• form used at top			• form used on left side
		→ 5200 刀			→ 6C35 𠂇
2E89	𠂇	CJK RADICAL KNIFE TWO	2EA2	𠂇	CJK RADICAL WATER TWO
		• form used on right side			• form used (rarely) at bottom
		→ 5202 𠂇			→ 6C3A 𠂇
2E8A	𠂇	CJK RADICAL DIVINATION	2EA3	𠂇	CJK RADICAL FIRE
		• form used at top			• form used at bottom
		→ 535C 卜			→ 706C 𠂇
2E8B	𠂇	CJK RADICAL SEAL	2EA4	𠂇	CJK RADICAL PAW ONE
		• form used at bottom			• form used at top
		→ 353E 𠂇			→ 722B 𠂇
2E8C	𠂇	CJK RADICAL SMALL ONE	2EA5	𠂇	CJK RADICAL PAW TWO
		• form used at top			• form used at top
		→ 5C0F 小			→ 722B 𠂇
2E8D	𠂇	CJK RADICAL SMALL TWO	2EA6	𠂇	CJK RADICAL SIMPLIFIED HALF TREE TRUNK
		• form used at top			→ 4E2C 𠂇
		→ 5C0F 小	2EA7	𠂇	CJK RADICAL COW
2E8E	𠂇	CJK RADICAL LAME ONE			→ 725B 牛
		→ 5C22 尢	2EA8	𠂇	CJK RADICAL DOG
2E8F	𠂇	CJK RADICAL LAME TWO			• form used on left side
		→ 5C23 𠂇			→ 72AD 𠂇
2E90	尢	CJK RADICAL LAME THREE	2EA9	𠂇	CJK RADICAL JADE
		→ 5C22 尢			• form used on left side
2E91	𠂇	CJK RADICAL LAME FOUR			→ 738B 王
		→ 5C23 𠂇	2EAA	𠂇	CJK RADICAL BOLT OF CLOTH
2E92	巳	CJK RADICAL SNAKE			• form used on left side
		→ 5DF3 巳			→ 758B 𠂇
2E93	纟	CJK RADICAL THREAD	2EAB	𠂇	CJK RADICAL EYE
		→ 5E7A 纟			• form used at top
2E94	𠂇	CJK RADICAL SNOUT ONE			→ 2EB2 𠂇 cjk radical net two
		→ 5F51 𠂇			→ 76EE 目
2E95	𠂇	CJK RADICAL SNOUT TWO	2EAC	示	CJK RADICAL SPIRIT ONE
		→ 5F50 𠂇			→ 793A 示
2E96	𠂇	CJK RADICAL HEART ONE	2EAD	𠂇	CJK RADICAL SPIRIT TWO
		• form used on left side			→ 793B 𠂇
		→ 5FC4 𠂇	2EAE	𠂇	CJK RADICAL BAMBOO
2E97	𠂇	CJK RADICAL HEART TWO			→ 7AF9 竹
		• form used at bottom	2EAF	𠂇	CJK RADICAL SILK
		→ 5FC3 心			• form used on left side
2E98	𠂇	CJK RADICAL HAND			→ 7CF9 𠂇
		• form used on left side	2EB0	𠂇	CJK RADICAL C-SIMPLIFIED SILK
		→ 624C 𠂇			• form used on left side
					→ 7E9F 𠂇
			2EB1	𠂇	CJK RADICAL NET ONE
					→ 7F53 𠂇

2EB2	𠂇	CJK RADICAL NET TWO → 2EAB 𠂇 cjk radical eye → 7F52 𠂇
2EB3	𠂈	CJK RADICAL NET THREE → 7F51 网
2EB4	𠂉	CJK RADICAL NET FOUR → 7F51 网
2EB5	𠂊	CJK RADICAL MESH → 2626B 𠂊
2EB6	𠂋	CJK RADICAL SHEEP • form used on left side → 7F8A 羊
2EB7	𠂌	CJK RADICAL RAM • form used at top → 7F8A 羊
2EB8	𠂍	CJK RADICAL EWE → 7F8B 𠂍
2EB9	𠂎	CJK RADICAL OLD → 8002 𠂎
2EBA	𠂏	CJK RADICAL BRUSH ONE → 8080 𠂏
2EBB	𠂐	CJK RADICAL BRUSH TWO → 807F 𠂐
2EBC	𠂑	CJK RADICAL MEAT → 8089 肉
2EBD	𠂒	CJK RADICAL MORTAR → 81FC 𠂒
2EBE	𠂓	CJK RADICAL GRASS ONE → 8279 𠂓
2EBF	𠂔	CJK RADICAL GRASS TWO → 8279 𠂔
2EC0	𠂕	CJK RADICAL GRASS THREE → 8279 𠂕
2EC1	𠂖	CJK RADICAL TIGER → 864E 虎
2EC2	𠂗	CJK RADICAL CLOTHES • form used on left side → 8864 𠂗
2EC3	𠂘	CJK RADICAL WEST ONE • form used at top → 8980 𠂘
2EC4	𠂙	CJK RADICAL WEST TWO • form used on left side → 897F 西
2EC5	见	CJK RADICAL C-SIMPLIFIED SEE → 89C1 见
2EC6	角	CJK RADICAL SIMPLIFIED HORN → 89D2 角
2EC7	𠂚	CJK RADICAL HORN → 278B2 𠂚
2EC8	讠	CJK RADICAL C-SIMPLIFIED SPEECH → 8BA0 讠
2EC9	贝	CJK RADICAL C-SIMPLIFIED SHELL → 8D1D 贝
2ECA	𠂛	CJK RADICAL FOOT • form used on left side → 8DB3 足
2ECB	车	CJK RADICAL C-SIMPLIFIED CART → 8F66 车
2ECC	辶	CJK RADICAL SIMPLIFIED WALK → 8FB6 辶
2ECD	辵	CJK RADICAL WALK ONE → 8FB6 辵
2ECE	辵	CJK RADICAL WALK TWO → 8FB6 辵
2ECF	阝	CJK RADICAL CITY • form used on right side → 9091 邑
2ED0	𠂜	CJK RADICAL C-SIMPLIFIED GOLD → 9485 𠂜
2ED1	長	CJK RADICAL LONG ONE → 9577 長
2ED2	𠂝	CJK RADICAL LONG TWO • form used on left side → 9578 𠂝
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	阡	CJK RADICAL MOUND TWO • form used on left side → 961D 阡
2ED7	𠂞	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	𠂟	CJK RADICAL EAT TWO • form used on left side → 2967F 𠂟
2EDF	𠂠	CJK RADICAL EAT THREE • form used on left side → 98E0 𠂠
2EE0	𠂡	CJK RADICAL C-SIMPLIFIED EAT • form used on left side → 9963 𠂡
2EE1	𠂢	CJK RADICAL HEAD → 29810 𠂢
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	鹵	CJK RADICAL C-SIMPLIFIED SALT → 9E75 鹵

2EE8	麦	CJK RADICAL SIMPLIFIED WHEAT → 9EA6 麦
2EE9	黄	CJK RADICAL SIMPLIFIED YELLOW → 9EC4 黄
2EEA	𪛗	CJK RADICAL C-SIMPLIFIED FROG → 9EFE 𪛗
2EEB	𪛘	CJK RADICAL J-SIMPLIFIED EVEN → 6589 𪛘
2EEC	𪛙	CJK RADICAL C-SIMPLIFIED EVEN → 9F50 𪛙
2EED	𪛚	CJK RADICAL J-SIMPLIFIED TOOTH → 6B6F 𪛚
2EEE	𪛛	CJK RADICAL C-SIMPLIFIED TOOTH → 9F7F 𪛛
2EEF	𪛜	CJK RADICAL J-SIMPLIFIED DRAGON → 9F8D 𪛜
2EF0	龙	CJK RADICAL C-SIMPLIFIED DRAGON → 9F99 龙
2EF1	𪛞	CJK RADICAL TURTLE → 9F9C 𪛞
2EF2	𪛟	CJK RADICAL J-SIMPLIFIED TURTLE → 4E80 𪛟
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	肉 2F81	𠂔 2F91	辵 2FA1	韋 2FB1	鬼 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	乚 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	乚 2F05	匚 2F15	女 2F25	彳 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	廾 2F36	无 2F46	爪 2F56	疋 2F66	米 2F76	舌 2F86	豆 2F96	金 2FA6	飛 2FB6	麥 2FC6	
7	一 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	夂 2F68	缶 2F78	舟 2F88	豸 2F98	門 2FA8	首 2FB8	黃 2FC8	
9	儿 2F09	卩 2F19	小 2F29	彡 2F39	月 2F49	𠂔 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	髡 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	一 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	冫 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	

**Kangxi radicals**

2F00	一	KANGXI RADICAL ONE ≈ 4E00 一	2F1E	匚	KANGXI RADICAL ENCLOSURE ≈ 56D7 匚
2F01		KANGXI RADICAL LINE ≈ 4E28	2F1F	土	KANGXI RADICAL EARTH ≈ 571F 土
2F02	丶	KANGXI RADICAL DOT ≈ 4E36 丶	2F20	士	KANGXI RADICAL SCHOLAR ≈ 58EB 士
2F03	丿	KANGXI RADICAL SLASH ≈ 4E3F 丿	2F21	夊	KANGXI RADICAL GO ≈ 5902 夊
2F04	乙	KANGXI RADICAL SECOND ≈ 4E59 乙	2F22	夊	KANGXI RADICAL GO SLOWLY ≈ 590A 夊
2F05	丿	KANGXI RADICAL HOOK ≈ 4E85 丿	2F23	夕	KANGXI RADICAL EVENING ≈ 5915 夕
2F06	二	KANGXI RADICAL TWO ≈ 4E8C 二	2F24	大	KANGXI RADICAL BIG ≈ 5927 大
2F07	宀	KANGXI RADICAL LID ≈ 4EA0 宀	2F25	女	KANGXI RADICAL WOMAN ≈ 5973 女
2F08	人	KANGXI RADICAL MAN ≈ 4EBA 人	2F26	子	KANGXI RADICAL CHILD ≈ 5B50 子
2F09	儿	KANGXI RADICAL LEGS ≈ 513F 儿	2F27	宀	KANGXI RADICAL ROOF ≈ 5B80 宀
2F0A	入	KANGXI RADICAL ENTER ≈ 5165 入	2F28	寸	KANGXI RADICAL INCH ≈ 5BF8 寸
2F0B	八	KANGXI RADICAL EIGHT ≈ 516B 八	2F29	小	KANGXI RADICAL SMALL ≈ 5C0F 小
2F0C	匚	KANGXI RADICAL DOWN BOX ≈ 5182 匚	2F2A	尢	KANGXI RADICAL LAME ≈ 5C22 尢
2F0D	冖	KANGXI RADICAL COVER ≈ 5196 冖	2F2B	尸	KANGXI RADICAL CORPSE ≈ 5C38 尸
2F0E	冫	KANGXI RADICAL ICE ≈ 51AB 冫	2F2C	屮	KANGXI RADICAL SPROUT ≈ 5C6E 屮
2F0F	几	KANGXI RADICAL TABLE ≈ 51E0 几	2F2D	山	KANGXI RADICAL MOUNTAIN ≈ 5C71 山
2F10	凵	KANGXI RADICAL OPEN BOX ≈ 51F5 凵	2F2E	㵿	KANGXI RADICAL RIVER ≈ 5DDB 㵿
2F11	刀	KANGXI RADICAL KNIFE ≈ 5200 刀	2F2F	工	KANGXI RADICAL WORK ≈ 5DE5 工
2F12	力	KANGXI RADICAL POWER ≈ 529B 力	2F30	己	KANGXI RADICAL ONESELF ≈ 5DF1 己
2F13	勹	KANGXI RADICAL WRAP ≈ 52F9 勹	2F31	巾	KANGXI RADICAL TURBAN ≈ 5DFE 巾
2F14	匕	KANGXI RADICAL SPOON ≈ 5315 匕	2F32	干	KANGXI RADICAL DRY ≈ 5E72 干
2F15	匚	KANGXI RADICAL RIGHT OPEN BOX ≈ 531A 匚	2F33	么	KANGXI RADICAL SHORT THREAD ≈ 5E7A 么
2F16	匚	KANGXI RADICAL HIDING ENCLOSURE ≈ 5338 匚	2F34	广	KANGXI RADICAL DOTTED CLIFF ≈ 5E7F 广
2F17	十	KANGXI RADICAL TEN ≈ 5341 十	2F35	夊	KANGXI RADICAL LONG STRIDE ≈ 5EF4 夊
2F18	卜	KANGXI RADICAL DIVINATION ≈ 535C 卜	2F36	升	KANGXI RADICAL TWO HANDS ≈ 5EFE 升
2F19	卩	KANGXI RADICAL SEAL ≈ 5369 卩	2F37	弋	KANGXI RADICAL SHOOT ≈ 5F0B 弋
2F1A	厂	KANGXI RADICAL CLIFF ≈ 5382 厂	2F38	弓	KANGXI RADICAL BOW ≈ 5F13 弓
2F1B	厶	KANGXI RADICAL PRIVATE ≈ 53B6 厶	2F39	彡	KANGXI RADICAL SNOUT ≈ 5F50 彡
2F1C	又	KANGXI RADICAL AGAIN ≈ 53C8 又	2F3A	彡	KANGXI RADICAL BRISTLE ≈ 5F61 彡
2F1D	口	KANGXI RADICAL MOUTH ≈ 53E3 口	2F3B	彳	KANGXI RADICAL STEP ≈ 5F73 彳
			2F3C	心	KANGXI RADICAL HEART ≈ 5FC3 心



2F3D	戈	KANGXI RADICAL HALBERD ≈ 6208 戈	2F5C	牛	KANGXI RADICAL COW ≈ 725B 牛
2F3E	户	KANGXI RADICAL DOOR ≈ 6236 户	2F5D	犬	KANGXI RADICAL DOG ≈ 72AC 犬
2F3F	手	KANGXI RADICAL HAND ≈ 624B 手	2F5E	玄	KANGXI RADICAL PROFOUND ≈ 7384 玄
2F40	支	KANGXI RADICAL BRANCH ≈ 652F 支	2F5F	玉	KANGXI RADICAL JADE ≈ 7389 玉
2F41	支	KANGXI RADICAL RAP ≈ 6534 支	2F60	瓜	KANGXI RADICAL MELON ≈ 74DC 瓜
2F42	文	KANGXI RADICAL SCRIPT ≈ 6587 文	2F61	瓦	KANGXI RADICAL TILE ≈ 74E6 瓦
2F43	斗	KANGXI RADICAL DIPPER ≈ 6597 斗	2F62	甘	KANGXI RADICAL SWEET ≈ 7518 甘
2F44	斤	KANGXI RADICAL AXE ≈ 65A4 斤	2F63	生	KANGXI RADICAL LIFE ≈ 751F 生
2F45	方	KANGXI RADICAL SQUARE ≈ 65B9 方	2F64	用	KANGXI RADICAL USE ≈ 7528 用
2F46	无	KANGXI RADICAL NOT ≈ 65E0 无	2F65	田	KANGXI RADICAL FIELD ≈ 7530 田
2F47	日	KANGXI RADICAL SUN ≈ 65E5 日	2F66	疋	KANGXI RADICAL BOLT OF CLOTH ≈ 758B 疋
2F48	曰	KANGXI RADICAL SAY ≈ 66F0 曰	2F67	疒	KANGXI RADICAL SICKNESS ≈ 7592 疒
2F49	月	KANGXI RADICAL MOON ≈ 6708 月	2F68	㝱	KANGXI RADICAL DOTTED TENT ≈ 7676 㝱
2F4A	木	KANGXI RADICAL TREE ≈ 6728 木	2F69	白	KANGXI RADICAL WHITE ≈ 767D 白
2F4B	欠	KANGXI RADICAL LACK ≈ 6B20 欠	2F6A	皮	KANGXI RADICAL SKIN ≈ 76AE 皮
2F4C	止	KANGXI RADICAL STOP ≈ 6B62 止	2F6B	皿	KANGXI RADICAL DISH ≈ 76BF 皿
2F4D	歹	KANGXI RADICAL DEATH ≈ 6B79 歹	2F6C	目	KANGXI RADICAL EYE ≈ 76EE 目
2F4E	殳	KANGXI RADICAL WEAPON ≈ 6BB3 殳	2F6D	矛	KANGXI RADICAL SPEAR ≈ 77DB 矛
2F4F	毋	KANGXI RADICAL DO NOT ≈ 6BCB 毋	2F6E	矢	KANGXI RADICAL ARROW ≈ 77E2 矢
2F50	比	KANGXI RADICAL COMPARE ≈ 6BD4 比	2F6F	石	KANGXI RADICAL STONE ≈ 77F3 石
2F51	毛	KANGXI RADICAL FUR ≈ 6BDB 毛	2F70	示	KANGXI RADICAL SPIRIT ≈ 793A 示
2F52	氏	KANGXI RADICAL CLAN ≈ 6C0F 氏	2F71	内	KANGXI RADICAL TRACK ≈ 79B8 内
2F53	气	KANGXI RADICAL STEAM ≈ 6C14 气	2F72	禾	KANGXI RADICAL GRAIN ≈ 79BE 禾
2F54	水	KANGXI RADICAL WATER ≈ 6C34 水	2F73	穴	KANGXI RADICAL CAVE ≈ 7A74 穴
2F55	火	KANGXI RADICAL FIRE ≈ 706B 火	2F74	立	KANGXI RADICAL STAND ≈ 7ACB 立
2F56	爪	KANGXI RADICAL CLAW ≈ 722A 爪	2F75	竹	KANGXI RADICAL BAMBOO ≈ 7AF9 竹
2F57	父	KANGXI RADICAL FATHER ≈ 7236 父	2F76	米	KANGXI RADICAL RICE ≈ 7C73 米
2F58	爻	KANGXI RADICAL DOUBLE X ≈ 723B 爻	2F77	糸	KANGXI RADICAL SILK ≈ 7CF8 糸
2F59	爿	KANGXI RADICAL HALF TREE TRUNK ≈ 723F 爿	2F78	缶	KANGXI RADICAL JAR ≈ 7F36 缶
2F5A	片	KANGXI RADICAL SLICE ≈ 7247 片	2F79	网	KANGXI RADICAL NET ≈ 7F51 网
2F5B	牙	KANGXI RADICAL FANG ≈ 7259 牙	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 臼 KANGXI RADICAL MORTAR  
≈ 81FC 臼

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

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 阝 KANGXI RADICAL WEST  
≈ 897E 阝

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

2FA9 阜 KANGXI RADICAL MOUND  
≈ 961C 阜

2FAA 隸 KANGXI RADICAL SLAVE  
≈ 96B6 隸

2FAB 隹 KANGXI RADICAL SHORT TAILED BIRD  
≈ 96B9 隹

2FAC 雨 KANGXI RADICAL RAIN  
≈ 96E8 雨

2FAD 青 KANGXI RADICAL BLUE  
≈ 9751 青

2FAE 非 KANGXI RADICAL WRONG  
≈ 975E 非

2FAF 面 KANGXI RADICAL FACE  
≈ 9762 面

2FB0 革 KANGXI RADICAL LEATHER  
≈ 9769 革

2FB1 韋 KANGXI RADICAL TANNED LEATHER  
≈ 97CB 韋

2FB2 韭 KANGXI RADICAL LEEK  
≈ 97ED 韭

2FB3 音 KANGXI RADICAL SOUND  
≈ 97F3 音

2FB4 頁 KANGXI RADICAL LEAF  
≈ 9801 頁

















2FB5 風 KANGXI RADICAL WIND  
≈ 98A8 風

2FB6 飛 KANGXI RADICAL FLY  
≈ 98DB 飛

2FB7 食 KANGXI RADICAL EAT  
≈ 98DF 食













2FB8 首 KANGXI RADICAL HEAD  
≈ 9996 首

































































2FB9	香	KANGXI RADICAL FRAGRANT ≈ 9999 香
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
2FC4	鹵	KANGXI RADICAL SALT ≈ 9E75 鹵
2FC5	鹿	KANGXI RADICAL DEER ≈ 9E7F 鹿
2FC6	麥	KANGXI RADICAL WHEAT ≈ 9EA5 麥
2FC7	麻	KANGXI RADICAL HEMP ≈ 9EBB 麻
2FC8	黃	KANGXI RADICAL YELLOW ≈ 9EC3 黃
2FC9	黍	KANGXI RADICAL MILLET ≈ 9ECD 黍
2FCA	黑	KANGXI RADICAL BLACK ≈ 9ED1 黑
2FCB	黻	KANGXI RADICAL EMBROIDERY ≈ 9EF9 黻
2FCC	黽	KANGXI RADICAL FROG ≈ 9EFD 黽
2FCD	鼎	KANGXI RADICAL TRIPOD ≈ 9F0E 鼎
2FCE	鼓	KANGXI RADICAL DRUM ≈ 9F13 鼓
2FCF	鼠	KANGXI RADICAL RAT ≈ 9F20 鼠
2FD0	鼻	KANGXI RADICAL NOSE ≈ 9F3B 鼻
2FD1	齊	KANGXI RADICAL EVEN ≈ 9F4A 齊
2FD2	齒	KANGXI RADICAL TOOTH ≈ 9F52 齒
2FD3	龍	KANGXI RADICAL DRAGON ≈ 9F8D 龍
2FD4	龜	KANGXI RADICAL TURTLE ≈ 9F9C 龜
2FD5	龠	KANGXI RADICAL FLUTE ≈ 9FA0 龠

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 々 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  HANGZHOU NUMERAL ONE
- 3022  HANGZHOU NUMERAL TWO
- 3023  HANGZHOU NUMERAL THREE
- 3024  HANGZHOU NUMERAL FOUR
- 3025  HANGZHOU NUMERAL FIVE
- 3026  HANGZHOU NUMERAL SIX
- 3027  HANGZHOU NUMERAL SEVEN
- 3028  HANGZHOU NUMERAL EIGHT
- 3029  HANGZHOU NUMERAL NINE

**Diacritics**


- 302A  IDEOGRAPHIC LEVEL TONE MARK
- 302B  IDEOGRAPHIC RISING TONE MARK
- 302C  IDEOGRAPHIC DEPARTING TONE MARK


302D  IDEOGRAPHIC ENTERING TONE MARK


302E  HANGUL SINGLE DOT TONE MARK  
= 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  HANGZHOU NUMERAL TEN

≈ 5341 

3039  HANGZHOU NUMERAL TWENTY


≈ 5344 

303A  HANGZHOU NUMERAL THIRTY

≈ 5345 

#### Other CJK punctuation

303B  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	ば <sup>o</sup> 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	や 3083	ん 3093
4	い 3044	ご 3054	っ 3064	び <sup>o</sup> 3074	や 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 <sup>o</sup> 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 <sup>o</sup> 3099
A	お 304A	ず 305A	な 306A	ぺ 307A	り 308A	ゝ <sup>o</sup> 309A
B	か 304B	せ 305B	に 306B	ほ 307B	る 308B	ゝ <sup>o</sup> 309B
C	が 304C	ぜ 305C	ぬ 306C	ぼ 307C	れ 308C	ゝ <sup>o</sup> 309C
D	き 304D	そ 305D	ね 306D	ぽ 307D	ろ 308D	ゝ <sup>o</sup> 309D
E	ぎ 304E	ぞ 305E	の 306E	ま 307E	わ 308E	ゝ <sup>o</sup> 309E
F	く 304F	た 305F	は 306F	み 307F	わ 308F	ゝ <sup>o</sup> 309F



**Hiragana letters**

3041	あ	HIRAGANA LETTER SMALL A
3042	ぁ	HIRAGANA LETTER A
3043	い	HIRAGANA LETTER SMALL I
3044	ぃ	HIRAGANA LETTER I
3045	う	HIRAGANA LETTER SMALL U
3046	ぅ	HIRAGANA LETTER U
3047	え	HIRAGANA LETTER SMALL E
3048	ぇ	HIRAGANA LETTER E
3049	お	HIRAGANA LETTER SMALL O
304A	ぉ	HIRAGANA LETTER O
304B	か	HIRAGANA LETTER KA
304C	が	HIRAGANA LETTER GA ≡ 304B か 3099 〇
304D	き	HIRAGANA LETTER KI
304E	ぎ	HIRAGANA LETTER GI ≡ 304D き 3099 〇
304F	く	HIRAGANA LETTER KU
3050	ぐ	HIRAGANA LETTER GU ≡ 304F く 3099 〇
3051	け	HIRAGANA LETTER KE
3052	げ	HIRAGANA LETTER GE ≡ 3051 け 3099 〇
3053	こ	HIRAGANA LETTER KO
3054	ご	HIRAGANA LETTER GO ≡ 3053 こ 3099 〇
3055	さ	HIRAGANA LETTER SA
3056	ざ	HIRAGANA LETTER ZA ≡ 3055 さ 3099 〇
3057	し	HIRAGANA LETTER SI = SHI
3058	じ	HIRAGANA LETTER ZI = JI (not unique) ≡ 3057 し 3099 〇
3059	す	HIRAGANA LETTER SU
305A	ず	HIRAGANA LETTER ZU ≡ 3059 す 3099 〇
305B	せ	HIRAGANA LETTER SE
305C	ぜ	HIRAGANA LETTER ZE ≡ 305B せ 3099 〇
305D	そ	HIRAGANA LETTER SO
305E	ぞ	HIRAGANA LETTER ZO ≡ 305D そ 3099 〇
305F	た	HIRAGANA LETTER TA
3060	だ	HIRAGANA LETTER DA ≡ 305F た 3099 〇
3061	ち	HIRAGANA LETTER TI = CHI
3062	ぢ	HIRAGANA LETTER DI = JI (not unique) ≡ 3061 ち 3099 〇
3063	っ	HIRAGANA LETTER SMALL TU = SMALL TSU
3064	っ	HIRAGANA LETTER TU = TSU
3065	づ	HIRAGANA LETTER DU = ZU (not unique) ≡ 3064 っ 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	ぼ	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	や	HIRAGANA LETTER YA
3085	ゆ	HIRAGANA LETTER SMALL YU
3086	ゆ	HIRAGANA LETTER YU
3087	よ	HIRAGANA LETTER SMALL YO
3088	よ	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	わ	HIRAGANA LETTER WA
3090	ゐ	HIRAGANA LETTER WI
3091	ゑ	HIRAGANA LETTER WE
3092	を	HIRAGANA LETTER WO
3093	ん	HIRAGANA LETTER N
3094	づ	HIRAGANA LETTER VU ≡ 3046 う 3099 〇

**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 ◌゚ KATAKANA-HIRAGANA VOICED SOUND MARK  
 ≈ 0020 SP 3099 ◌゛
- 309C ◌ゝ KATAKANA-HIRAGANA SEMI-VOICED SOUND MARK  
 ≈ 0020 SP 309A ◌゜

**Iteration marks**

- 309D ≷ HIRAGANA ITERATION MARK
- 309E ≸ HIRAGANA VOICED ITERATION MARK  
 ≡ 309D ≷ 3099 ◌゛

**Hiragana digraph**

- 309F ㇿ HIRAGANA DIGRAPH YORI
- historically used in vertical contexts, but now found also in horizontal layout
- ≈ <vertical> 3088 ㇿ 308A ㇿ

	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 <sup>◌</sup> 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 <sup>◌</sup> 30D3	ヤ 30E3	ン 30F3
4	イ 30A4	ゴ 30B4	ツ 30C4	ピ <sup>◌</sup> 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 <sup>◌</sup> 30C7	プ <sup>◌</sup> 30D7	ヨ 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 <sup>◌</sup> 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 <sup>◌</sup> 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

**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 デ KATAKANA LETTER DI  
= JI (not unique)  
≡ 30C1 チ 3099 〇  
30C3 ツ KATAKANA LETTER SMALL TU  
= SMALL TSU  
30C4 ツ 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 3099 〇  
30D2 ヒ KATAKANA LETTER HI  
30D3 ビ KATAKANA LETTER BI  
≡ 30D2 ヒ 3099 〇  
30D4 ピ KATAKANA LETTER PI  
≡ 30D2 ヒ 3099 〇  
30D5 フ KATAKANA LETTER HU  
= FU  
30D6 ブ KATAKANA LETTER BU  
≡ 30D5 フ 3099 〇  
30D7 プ KATAKANA LETTER PU  
≡ 30D5 フ 3099 〇  
30D8 ヘ KATAKANA LETTER HE  
30D9 ベ KATAKANA LETTER BE  
≡ 30D8 ヘ 3099 〇  
30DA ペ KATAKANA LETTER PE  
≡ 30D8 ヘ 3099 〇  
30DB ホ KATAKANA LETTER HO  
30DC ボ KATAKANA LETTER BO  
≡ 30DB ホ 3099 〇  
30DD ポ KATAKANA LETTER PO  
≡ 30DB ホ 3099 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 キ 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 〇  
30F5 カ KATAKANA LETTER SMALL KA  
30F6 ケ KATAKANA LETTER SMALL KE

- 30F7 ヱ KATAKANA LETTER VA  
 ≡ 30EF ヱ 3099 〇  
 30F8 ズ KATAKANA LETTER VI  
 ≡ 30F0 ズ 3099 〇  
 30F9 ギ KATAKANA LETTER VE  
 ≡ 30F1 ギ 3099 〇  
 30FA ヱ KATAKANA LETTER VO  
 ≡ 30F2 ヱ 3099 〇

**Conjunction and length marks**

- 30FB ・ KATAKANA MIDDLE DOT  
 → 00B7 · middle dot  
 30FC ー KATAKANA-HIRAGANA PROLONGED SOUND MARK  
 → 2014 — em dash

**Iteration marks**

- 30FD ヱ KATAKANA ITERATION MARK  
 30FE ヱ KATAKANA VOICED ITERATION MARK  
 ≡ 30FD ヱ 3099 〇

**Katakana digraph**

- 30FF ㇿ KATAKANA DIGRAPH KOTO  
 • historically used in vertical contexts, but now found also in horizontal layout  
 ≈ <vertical> 30B3 ㇿ 30C8 ト

	310	311	312
0		ㄣ 3110	ㄣ 3120
1		ㄣ 3111	ㄣ 3121
2		ㄣ 3112	ㄣ 3122
3		ㄣ 3113	ㄣ 3123
4		ㄣ 3114	ㄣ 3124
5	ㄣ 3105	ㄣ 3115	ㄣ 3125
6	ㄣ 3106	ㄣ 3116	ㄣ 3126
7	ㄣ 3107	ㄣ 3117	ㄣ 3127
8	ㄣ 3108	ㄣ 3118	ㄣ 3128
9	ㄣ 3109	ㄣ 3119	ㄣ 3129
A	ㄣ 310A	ㄣ 311A	ㄣ 312A
B	ㄣ 310B	ㄣ 311B	ㄣ 312B
C	ㄣ 310C	ㄣ 311C	ㄣ 312C
D	ㄣ 310D	ㄣ 311D	ㄣ 312D
E	ㄣ 310E	ㄣ 311E	
F	ㄣ 310F	ㄣ 311F	

See also the Bopomofo Extended block

#### Based on GB 2312

3105	ㄣ	BOPOMOFO LETTER B
3106	ㄣ	BOPOMOFO LETTER P
3107	ㄣ	BOPOMOFO LETTER M
3108	ㄣ	BOPOMOFO LETTER F
3109	ㄣ	BOPOMOFO LETTER D
310A	ㄣ	BOPOMOFO LETTER T
310B	ㄣ	BOPOMOFO LETTER N
310C	ㄣ	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		ㄹᄇ 3140	ㅍ 3150	ㅍ 3160	ㅍ 3170	ㅇ 3180
1	ㄱ 3131	ㅋ 3141	ㅌ 3151	ㅡ 3161	ㅁ 3171	ㅇ 3181
2	ㄴ 3132	ㅈ 3142	ㅊ 3152	ㅊ 3162	ㅊ 3172	ㅇ 3182
3	ㄴ 3133	ㅈ 3143	ㅊ 3153	ㅊ 3163	ㅊ 3173	ㅇ 3183
4	ㄴ 3134	ㅈ 3144	ㅊ 3154	 3164	ㅊ 3174	ㅊ 3184
5	ㄴ 3135	ㅈ 3145	ㅊ 3155	ㄴ 3165	ㅊ 3175	ㅊ 3185
6	ㄴ 3136	ㅈ 3146	ㅊ 3156	ㄴ 3166	ㅊ 3176	ㅊ 3186
7	ㄴ 3137	ㅇ 3147	ㄴ 3157	ㄴ 3167	ㅊ 3177	ㅊ 3187
8	ㄴ 3138	ㅈ 3148	ㅊ 3158	ㅊ 3168	ㅊ 3178	ㅊ 3188
9	ㄴ 3139	ㅈ 3149	ㅊ 3159	ㅊ 3169	ㅊ 3179	ㅊ 3189
A	ㄴ 313A	ㅈ 314A	ㅊ 315A	ㅊ 316A	ㅊ 317A	ㅊ 318A
B	ㄴ 313B	ㅈ 314B	ㅊ 315B	ㅊ 316B	ㅊ 317B	ㅊ 318B
C	ㄴ 313C	ㅈ 314C	ㅊ 315C	ㅊ 316C	ㅊ 317C	ㅊ 318C
D	ㄴ 313D	ㅈ 314D	ㅊ 315D	ㅊ 316D	ㅊ 317D	ㅊ 318D
E	ㄴ 313E	ㅈ 314E	ㅊ 315E	ㅊ 316E	ㅊ 317E	ㅊ 318E
F	ㄴ 313F	ㅈ 314F	ㅊ 315F	ㅊ 316F	ㅊ 317F	

**Modern letters**

3131	ㄱ	HANGUL LETTER KIYEOK ≈ 1100 ㄱ hangul choseong kiyeok
3132	ㄴ	HANGUL LETTER SSANGKIYEOK ≈ 1101 ㄴ hangul choseong ssangkiyeok
3133	ㄷ	HANGUL LETTER KIYEOK-SIOS ≈ 11AA ㄷ hangul jongseong kiyeok-sios
3134	ㄹ	HANGUL LETTER NIEUN ≈ 1102 ㄹ hangul choseong nieun
3135	ㄹ	HANGUL LETTER NIEUN-CIEUC ≈ 11AC ㄹ hangul jongseong nieun-cieuc
3136	ㄹ	HANGUL LETTER NIEUN-HIEUH ≈ 11AD ㄹ hangul jongseong nieun-hieuh
3137	ㄷ	HANGUL LETTER TIKEUT ≈ 1103 ㄷ hangul choseong tikeut
3138	ㄷ	HANGUL LETTER SSANGTIKEUT ≈ 1104 ㄷ hangul choseong ssangtikeut
3139	ㄹ	HANGUL LETTER RIEUL ≈ 1105 ㄹ hangul choseong rieul
313A	ㄹ	HANGUL LETTER RIEUL-KIYEOK ≈ 11B0 ㄹ hangul jongseong rieul-kiyeok
313B	ㄹ	HANGUL LETTER RIEUL-MIEUM ≈ 11B1 ㄹ hangul jongseong rieul-mieum
313C	ㄹ	HANGUL LETTER RIEUL-PIEUP ≈ 11B2 ㄹ hangul jongseong rieul-pieup
313D	ㄹ	HANGUL LETTER RIEUL-SIOS ≈ 11B3 ㄹ hangul jongseong rieul-sios
313E	ㄹ	HANGUL LETTER RIEUL-THIEUTH ≈ 11B4 ㄹ hangul jongseong rieul-thieuth
313F	ㄹ	HANGUL LETTER RIEUL-PHIEUPH ≈ 11B5 ㄹ hangul jongseong rieul-phieuph
3140	ㄹ	HANGUL LETTER RIEUL-HIEUH ≈ 111A ㄹ hangul choseong rieul-hieuh
3141	ㅁ	HANGUL LETTER MIEUM ≈ 1106 ㅁ hangul choseong mieum
3142	ㅂ	HANGUL LETTER PIEUP ≈ 1107 ㅂ hangul choseong pieup
3143	ㅂ	HANGUL LETTER SSANGPIEUP ≈ 1108 ㅂ hangul choseong ssangpieup
3144	ㅂ	HANGUL LETTER PIEUP-SIOS ≈ 1121 ㅂ hangul choseong pieup-sios
3145	ㅅ	HANGUL LETTER SIOS ≈ 1109 ㅅ hangul choseong sios
3146	ㅅ	HANGUL LETTER SSANGSIOS ≈ 110A ㅅ hangul choseong ssangsios
3147	ㅇ	HANGUL LETTER IEUNG ≈ 110B ㅇ hangul choseong ieung
3148	ㅈ	HANGUL LETTER CIEUC ≈ 110C ㅈ hangul choseong cieuc
3149	ㅈ	HANGUL LETTER SSANGCIEUC ≈ 110D ㅈ hangul choseong ssangcieuc
314A	ㅊ	HANGUL LETTER CHIEUCH ≈ 110E ㅊ hangul choseong chieuch
314B	ㅋ	HANGUL LETTER KHIEUKH ≈ 110F ㅋ hangul choseong khieukh
314C	ㅌ	HANGUL LETTER THIEUTH ≈ 1110 ㅌ 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	ㅛ	HANGUL LETTER WAE ≈ 116B ㅛ hangul jungseong wae
315A	ㅜ	HANGUL LETTER OE ≈ 116C ㅜ hangul jungseong oe
315B	ㅠ	HANGUL LETTER YO ≈ 116D ㅠ hangul jungseong yo
315C	ㅓ	HANGUL LETTER U ≈ 116E ㅓ hangul jungseong u
315D	ㅕ	HANGUL LETTER WEO ≈ 116F ㅕ hangul jungseong weo
315E	ㅑ	HANGUL LETTER WE ≈ 1170 ㅑ hangul jungseong we
315F	ㅓ	HANGUL LETTER WI ≈ 1171 ㅓ hangul jungseong wi
3160	ㅕ	HANGUL LETTER YU ≈ 1172 ㅕ hangul jungseong yu
3161	ㅡ	HANGUL LETTER EU ≈ 1173 ㅡ hangul jungseong eu
3162	ㅑ	HANGUL LETTER YI ≈ 1174 ㅑ hangul jungseong yi
3163	ㅣ	HANGUL LETTER I ≈ 1175 ㅣ hangul jungseong i

**Special character**

3164	ㅏ	HANGUL FILLER = chae um ≈ 1160 ㅏ hangul jungseong filler
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**Archaic letters**

3165	ㅓ	HANGUL LETTER SSANGNIEUN ≈ 1114 ㅓ hangul choseong ssangnieun
3166	ㅕ	HANGUL LETTER NIEUN-TIKEUT ≈ 1115 ㅕ hangul choseong nieun-tikeut
3167	ㅓ	HANGUL LETTER NIEUN-SIOS ≈ 11C7 ㅓ hangul jongseong nieun-sios
3168	ㅓ	HANGUL LETTER NIEUN-PANSIOS ≈ 11C8 ㅓ hangul jongseong nieun-pansios
3169	ㅓ	HANGUL LETTER RIEUL-KIYEOK-SIOS ≈ 11CC ㅓ hangul jongseong rieul-kiyeok-sios
316A	ㅕ	HANGUL LETTER RIEUL-TIKEUT ≈ 11CE ㅕ hangul jongseong rieul-tikeut
316B	ㅓ	HANGUL LETTER RIEUL-PIEUP-SIOS ≈ 11D3 ㅓ hangul jongseong rieul-pieup-sios



316C	ㄹㅅ	HANGUL LETTER RIEUL-PANSIOS ≈ 11D7 ㄹㅅ hangul jongseong rieul-pansios	3189	ㅛ	HANGUL LETTER YO-I ≈ 1188 ㅛ hangul jungseong yo-i
316D	ㄹㅎ	HANGUL LETTER RIEUL-YEORINHIEUH ≈ 11D9 ㄹㅎ hangul jongseong rieul-yeorinhieuh	318A	ㅠ	HANGUL LETTER YU-YEO ≈ 1191 ㅠ hangul jungseong yu-yeo
316E	ㅁ	HANGUL LETTER MIEUM-PIEUP ≈ 111C ㅁ hangul choseong mieum-pieup	318B	ㅠ	HANGUL LETTER YU-YE ≈ 1192 ㅠ hangul jungseong yu-ye
316F	ㅁㅅ	HANGUL LETTER MIEUM-SIOS ≈ 11DD ㅁㅅ hangul jongseong mieum-sios	318C	ㅠ	HANGUL LETTER YU-I ≈ 1194 ㅠ hangul jungseong yu-i
3170	ㅁㅅ	HANGUL LETTER MIEUM-PANSIOS ≈ 11DF ㅁㅅ hangul jongseong mieum-pansios	318D	ㅅ	HANGUL LETTER ARAEA ≈ 119E ㅅ hangul jungseong araea
3171	ㅁ	HANGUL LETTER KAPYEOUNMIEUM ≈ 111D ㅁ hangul choseong kapyeounmieum	318E	ㅅ	HANGUL LETTER ARAEAE ≈ 11A1 ㅅ hangul jungseong araea-i
3172	ㅁ	HANGUL LETTER PIEUP-KIYEOK ≈ 111E ㅁ hangul choseong pieup-kiyeok			
3173	ㅁ	HANGUL LETTER PIEUP-TIKEUT ≈ 1120 ㅁ hangul choseong pieup-tikeut			
3174	ㅁ	HANGUL LETTER PIEUP-SIOS-KIYEOK ≈ 1122 ㅁ hangul choseong pieup-sios-kiyeok			
3175	ㅁ	HANGUL LETTER PIEUP-SIOS-TIKEUT ≈ 1123 ㅁ hangul choseong pieup-sios-tikeut			
3176	ㅁ	HANGUL LETTER PIEUP-CIEUC ≈ 1127 ㅁ hangul choseong pieup-cieuc			
3177	ㅁ	HANGUL LETTER PIEUP-THIEUTH ≈ 1129 ㅁ hangul choseong pieup-thieuth			
3178	ㅁ	HANGUL LETTER KAPYEOUNPIEUP ≈ 112B ㅁ hangul choseong kapyeounpieup			
3179	ㅁ	HANGUL LETTER KAPYEOUNSSANGPIEUP ≈ 112C ㅁ hangul choseong kapyeounssangpieup			
317A	ㅁ	HANGUL LETTER SIOS-KIYEOK ≈ 112D ㅁ hangul choseong sios-kiyeok			
317B	ㅁ	HANGUL LETTER SIOS-NIEUN ≈ 112E ㅁ hangul choseong sios-nieun			
317C	ㅁ	HANGUL LETTER SIOS-TIKEUT ≈ 112F ㅁ hangul choseong sios-tikeut			
317D	ㅁ	HANGUL LETTER SIOS-PIEUP ≈ 1132 ㅁ hangul choseong sios-pieup			
317E	ㅁ	HANGUL LETTER SIOS-CIEUC ≈ 1136 ㅁ hangul choseong sios-cieuc			
317F	ㅁ	HANGUL LETTER PANSIOS ≈ 1140 ㅁ hangul choseong pansios			
3180	ㅁ	HANGUL LETTER SSANGIEUNG = ssangyesieung ≈ 1147 ㅁ hangul choseong ssangieung			
3181	ㅁ	HANGUL LETTER YESIEUNG • archaic velar nasal ≈ 114C ㅁ hangul choseong yesieung			
3182	ㅁ	HANGUL LETTER YESIEUNG-SIOS ≈ 11F1 ㅁ hangul jongseong yesieung-sios			
3183	ㅁ	HANGUL LETTER YESIEUNG-PANSIOS ≈ 11F2 ㅁ hangul jongseong yesieung-pansios			
3184	ㅁ	HANGUL LETTER KAPYEOUNPHIEUPH ≈ 1157 ㅁ hangul choseong kapyeounphieuph			
3185	ㅁ	HANGUL LETTER SSANGHIEUH ≈ 1158 ㅁ hangul choseong ssanghieuh			
3186	ㅁ	HANGUL LETTER YEORINHIEUH • archaic glottal stop ≈ 1159 ㅁ hangul choseong yeorinhieuh			
3187	ㅁ	HANGUL LETTER YO-YA ≈ 1184 ㅁ hangul jungseong yo-ya			
3188	ㅁ	HANGUL LETTER YO-YAE ≈ 1185 ㅁ hangul jungseong yo-yae			

	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	ㄣ 31B3
4	ㄣ 31A4	ㄣ 31B4
5	ㄣ 31A5	ㄣ 31B5
6	ㄣ 31A6	ㄣ 31B6
7	ㄣ 31A7	ㄣ 31B7
8	ㄣ 31A8	ㄣ 31B8
9	ㄣ 31A9	ㄣ 31B9
A	ㄣ 31AA	ㄣ 31BA
B	ㄣ 31AB	
C	ㄣ 31AC	
D	ㄣ 31AD	
E	ㄣ 31AE	
F	ㄣ 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	ㄣ	BOPOMOFO LETTER EE
31A5	ㄣ	BOPOMOFO LETTER ENN
31A6	ㄣ	BOPOMOFO LETTER OO
31A7	ㄣ	BOPOMOFO LETTER ONN
31A8	ㄣ	BOPOMOFO LETTER IR
31A9	ㄣ	BOPOMOFO LETTER ANN
31AA	ㄣ	BOPOMOFO LETTER INN
31AB	ㄣ	BOPOMOFO LETTER UNN
31AC	ㄣ	BOPOMOFO LETTER IM
31AD	ㄣ	BOPOMOFO LETTER NGG
31AE	ㄣ	BOPOMOFO LETTER AINN
31AF	ㄣ	BOPOMOFO LETTER AUNN
31B0	ㄆ	BOPOMOFO LETTER AM
31B1	ㄆ	BOPOMOFO LETTER OM
31B2	ㄨ	BOPOMOFO LETTER ONG
31B3	ㄣ	BOPOMOFO LETTER INNN
31B4	ㄣ	BOPOMOFO FINAL LETTER P
31B5	ㄣ	BOPOMOFO FINAL LETTER T
31B6	ㄣ	BOPOMOFO FINAL LETTER K
31B7	ㄣ	BOPOMOFO FINAL LETTER H

#### Extended Bopomofo for Hmu and Ge

31B8	ㄣ	BOPOMOFO LETTER GH
31B9	ㄣ	BOPOMOFO LETTER LH
31BA	ㄣ	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)	(다)	(一)	(日)	(祭)	PTE	(ㄱ)	(다)	(一)	(日)	(項)	(夜)	1月	(ア)	(チ)	(ム)
	3200	3210	3220	3230	3240	3250	3260	3270	3280	3290	32A0	32B0	32C0	32D0	32E0	32F0
1	(ㄴ)	(라)	(二)	(株)	(休)	(21)	(ㄴ)	(라)	(二)	(株)	(休)	(36)	2月	(イ)	(ツ)	(メ)
	3201	3211	3221	3231	3241	3251	3261	3271	3281	3291	32A1	32B1	32C1	32D1	32E1	32F1
2	(ㄷ)	(마)	(三)	(有)	(自)	(22)	(ㄷ)	(마)	(三)	(有)	(写)	(37)	3月	(ウ)	(テ)	(モ)
	3202	3212	3222	3232	3242	3252	3262	3272	3282	3292	32A2	32B2	32C2	32D2	32E2	32F2
3	(ㄹ)	(바)	(四)	(社)	(至)	(23)	(ㄹ)	(바)	(四)	(社)	(正)	(38)	4月	(エ)	(ト)	(ヤ)
	3203	3213	3223	3233	3243	3253	3263	3273	3283	3293	32A3	32B3	32C3	32D3	32E3	32F3
4	(ㄱ)	(사)	(五)	(名)	(問)	(24)	(ㄱ)	(사)	(五)	(名)	(上)	(39)	5月	(オ)	(ナ)	(ユ)
	3204	3214	3224	3234	3244	3254	3264	3274	3284	3294	32A4	32B4	32C4	32D4	32E4	32F4
5	(ㄴ)	(아)	(六)	(特)	(幼)	(25)	(ㄴ)	(아)	(六)	(特)	(中)	(40)	6月	(カ)	(ニ)	(ヨ)
	3205	3215	3225	3235	3245	3255	3265	3275	3285	3295	32A5	32B5	32C5	32D5	32E5	32F5
6	(ㄷ)	(자)	(七)	(財)	(文)	(26)	(ㄷ)	(자)	(七)	(財)	(下)	(41)	7月	(キ)	(ヌ)	(ラ)
	3206	3216	3226	3236	3246	3256	3266	3276	3286	3296	32A6	32B6	32C6	32D6	32E6	32F6
7	(ㅇ)	(차)	(八)	(祝)	(箏)	(27)	(ㅇ)	(차)	(八)	(祝)	(左)	(42)	8月	(ク)	(ネ)	(リ)
	3207	3217	3227	3237	3247	3257	3267	3277	3287	3297	32A7	32B7	32C7	32D7	32E7	32F7
8	(ㅈ)	(카)	(九)	(勞)	(10)	(28)	(ㅈ)	(카)	(九)	(勞)	(右)	(43)	9月	(ケ)	(ノ)	(ル)
	3208	3218	3228	3238	3248	3258	3268	3278	3288	3298	32A8	32B8	32C8	32D8	32E8	32F8
9	(ㅊ)	(타)	(十)	(代)	(20)	(29)	(ㅊ)	(타)	(十)	(秘)	(医)	(44)	10月	(コ)	(ハ)	(レ)
	3209	3219	3229	3239	3249	3259	3269	3279	3289	3299	32A9	32B9	32C9	32D9	32E9	32F9
A	(ㅋ)	(파)	(月)	(呼)	(30)	(30)	(ㅋ)	(파)	(月)	(男)	(宗)	(45)	11月	(サ)	(ヒ)	(ロ)
	320A	321A	322A	323A	324A	325A	326A	327A	328A	329A	32AA	32BA	32CA	32DA	32EA	32FA
B	(ㅌ)	(하)	(火)	(学)	(40)	(31)	(ㅌ)	(하)	(火)	(女)	(学)	(46)	12月	(シ)	(フ)	(ワ)
	320B	321B	322B	323B	324B	325B	326B	327B	328B	329B	32AB	32BB	32CB	32DB	32EB	32FB
C	(ㅍ)	(주)	(水)	(監)	(50)	(32)	(ㅍ)	(참고)	(水)	(適)	(監)	(47)	Hg	(ス)	(ヘ)	(缶)
	320C	321C	322C	323C	324C	325C	326C	327C	328C	329C	32AC	32BC	32CC	32DC	32EC	32FC
D	(ㅎ)	(오전)	(木)	(企)	(60)	(33)	(ㅎ)	(주의)	(木)	(優)	(企)	(48)	erg	(セ)	(ホ)	(コ)
	320D	321D	322D	323D	324D	325D	326D	327D	328D	329D	32AD	32BD	32CD	32DD	32ED	32FD
E	(가)	(오후)	(金)	(資)	(70)	(34)	(가)	(우)	(金)	(印)	(資)	(49)	eV	(ソ)	(マ)	(ヲ)
	320E	321E	322E	323E	324E	325E	326E	327E	328E	329E	32AE	32BE	32CE	32DE	32EE	32FE
F	(나)		(土)	(協)	(80)	(35)	(나)	(국)	(土)	(注)	(協)	(50)	LTD	(タ)	(ミ)	
	320F		322F	323F	324F	325F	326F	327F	328F	329F	32AF	32BF	32CF	32DF	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 ( 110B 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 ㅑ 0029 )
- 3210 (다) PARENTHESIZED HANGUL TKEUT A  
≈ 0028 ( 1103 ㄷ 1161 ㅓ 0029 )
- 3211 (라) PARENTHESIZED HANGUL RIEUL A  
≈ 0028 ( 1105 ㄹ 1161 ㅕ 0029 )
- 3212 (마) PARENTHESIZED HANGUL MIEUM A  
≈ 0028 ( 1106 ㅁ 1161 ㅗ 0029 )
- 3213 (바) PARENTHESIZED HANGUL PIEUP A  
≈ 0028 ( 1107 ㅂ 1161 ㅛ 0029 )
- 3214 (사) PARENTHESIZED HANGUL SIOS A  
≈ 0028 ( 1109 ㅅ 1161 ㅝ 0029 )
- 3215 (아) PARENTHESIZED HANGUL IEUNG A  
≈ 0028 ( 110B ㅇ 1161 ㅟ 0029 )
- 3216 (자) PARENTHESIZED HANGUL CIEUC A  
≈ 0028 ( 110C ㅈ 1161 ㅛ 0029 )
- 3217 (차) PARENTHESIZED HANGUL CHIEUCH A  
≈ 0028 ( 110E ㅊ 1161 ㅛ 0029 )
- 3218 (카) PARENTHESIZED HANGUL KHIEUKH A  
≈ 0028 ( 110F ㅋ 1161 ㅛ 0029 )
- 3219 (타) PARENTHESIZED HANGUL THIEUTH A  
≈ 0028 ( 1110 ㅌ 1161 ㅛ 0029 )
- 321A (파) PARENTHESIZED HANGUL PHIEUPH A  
≈ 0028 ( 1111 ㅍ 1161 ㅛ 0029 )
- 321B (하) PARENTHESIZED HANGUL HIEUH A  
≈ 0028 ( 1112 ㅎ 1161 ㅛ 0029 )
- 321C (주) PARENTHESIZED HANGUL CIEUC U  
≈ 0028 ( 110C ㅈ 116E ㅓ 0029 )

**Parenthesized Korean words**

- 321D (예) PARENTHESIZED KOREAN CHARACTER OJEON  
≈ 0028 ( 110B ㅇ 1169 ㅓ 110C ㅈ 1165 ㅓ 11AB ㅓ 0029 )
- 321E (호) 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) PARENTHEZIZED IDEOGRAPH FINANCIAL  
≈ 0028 ( 8CA1 財 0029 )
- 3237 (祝) PARENTHEZIZED IDEOGRAPH CONGRATULATION  
≈ 0028 ( 795D 祝 0029 )
- 3238 (勞) PARENTHEZIZED IDEOGRAPH LABOR  
≈ 0028 ( 52B4 勞 0029 )
- 3239 (代) PARENTHEZIZED IDEOGRAPH REPRESENT  
≈ 0028 ( 4EE3 代 0029 )
- 323A (呼) PARENTHEZIZED IDEOGRAPH CALL  
≈ 0028 ( 547C 呼 0029 )
- 323B (學) PARENTHEZIZED IDEOGRAPH STUDY  
≈ 0028 ( 5B66 學 0029 )
- 323C (監) PARENTHEZIZED IDEOGRAPH SUPERVISE  
≈ 0028 ( 76E3 監 0029 )
- 323D (企) PARENTHEZIZED IDEOGRAPH ENTERPRISE  
≈ 0028 ( 4F01 企 0029 )
- 323E (資) PARENTHEZIZED IDEOGRAPH RESOURCE  
≈ 0028 ( 8CC7 資 0029 )
- 323F (協) PARENTHEZIZED IDEOGRAPH ALLIANCE  
≈ 0028 ( 5354 協 0029 )
- 3240 (祭) PARENTHEZIZED IDEOGRAPH FESTIVAL  
≈ 0028 ( 796D 祭 0029 )
- 3241 (休) PARENTHEZIZED IDEOGRAPH REST  
≈ 0028 ( 4F11 休 0029 )
- 3242 (自) PARENTHEZIZED IDEOGRAPH SELF  
• from  
≈ 0028 ( 81EA 自 0029 )
- 3243 (至) PARENTHEZIZED 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 ㉠ CIRCLED HANGUL KIYEOK  
≈ <circle> 1100 ㄱ
- 3261 ㉡ CIRCLED HANGUL NIEUN  
≈ <circle> 1102 ㄴ
- 3262 ㉢ CIRCLED HANGUL TIKEUT  
≈ <circle> 1103 ㄷ
- 3263 ㉣ CIRCLED HANGUL RIEUL  
≈ <circle> 1105 ㄹ
- 3264 ㉤ CIRCLED HANGUL MIEUM  
≈ <circle> 1106 ㅁ
- 3265 ㉥ CIRCLED HANGUL PIEUP  
≈ <circle> 1107 ㅂ
- 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 가 CIRCLED HANGUL KIYEOK A  
≈ <circle> 1100 ㄱ 1161 ㅏ
- 326F 나 CIRCLED HANGUL NIEUN A  
≈ <circle> 1102 ㄴ 1161 ㅑ
- 3270 다 CIRCLED HANGUL TIEUT A  
≈ <circle> 1103 ㄷ 1161 ㅓ
- 3271 라 CIRCLED HANGUL RIEUL A  
≈ <circle> 1105 ㄹ 1161 ㅕ
- 3272 마 CIRCLED HANGUL MIEUM A  
≈ <circle> 1106 ㅁ 1161 ㅗ
- 3273 바 CIRCLED HANGUL PIEUP A  
≈ <circle> 1107 ㅂ 1161 ㅛ
- 3274 사 CIRCLED HANGUL SIOS A  
≈ <circle> 1109 ㅅ 1161 ㅜ
- 3275 아 CIRCLED HANGUL IEUNG A  
≈ <circle> 110B ㅇ 1161 ㅠ
- 3276 자 CIRCLED HANGUL CIEUC A  
≈ <circle> 110C ㅈ 1161 ㅝ
- 3277 차 CIRCLED HANGUL CHIEUCH A  
≈ <circle> 110E ㅊ 1161 ㅞ
- 3278 카 CIRCLED HANGUL KHIEUKH A  
≈ <circle> 110F ㅋ 1161 ㅟ
- 3279 타 CIRCLED HANGUL THIEUTH A  
≈ <circle> 1110 ㅌ 1161 ㅠ
- 327A 파 CIRCLED HANGUL PHIEUPH A  
≈ <circle> 1111 ㅍ 1161 ㅡ
- 327B 하 CIRCLED HANGUL HIEUH A  
≈ <circle> 1112 ㅎ 1161 ㅣ

**Circled Korean words**

- 327C 한글 CIRCLED KOREAN CHARACTER CHAMKO  
≈ <circle> 110E ㅎ 1161 ㅏ 11B7 ㅓ 1100 ㄱ 1169 ㅑ
- 327D 주위 CIRCLED KOREAN CHARACTER JUEUI  
≈ <circle> 110C ㅈ 116E ㅛ 110B ㅇ 1174 ㅏ

**Circled Hangul syllable**

- 327E 우 CIRCLED HANGUL IEUNG U  
• postal code mark  
≈ <circle> 110B ㅇ 116E ㅛ

**Symbol**

- 327F ㉞ KOREAN STANDARD SYMBOL

**Circled ideographs**

- 3280 一 CIRCLED IDEOGRAPH ONE  
= maru-iti, symbol of unification  
≈ <circle> 4E00 一
- 3281 二 CIRCLED IDEOGRAPH TWO  
≈ <circle> 4E8C 二
- 3282 三 CIRCLED IDEOGRAPH THREE  
≈ <circle> 4E09 三
- 3283 四 CIRCLED IDEOGRAPH FOUR  
≈ <circle> 56DB 四
- 3284 五 CIRCLED IDEOGRAPH FIVE  
≈ <circle> 4E94 五
- 3285 六 CIRCLED IDEOGRAPH SIX  
≈ <circle> 516D 六
- 3286 七 CIRCLED IDEOGRAPH SEVEN  
≈ <circle> 4E03 七
- 3287 八 CIRCLED IDEOGRAPH EIGHT  
≈ <circle> 516B 八

- 3288 九 CIRCLED IDEOGRAPH NINE  
≈ <circle> 4E5D 九
- 3289 十 CIRCLED IDEOGRAPH TEN  
≈ <circle> 5341 十
- 328A 月 CIRCLED IDEOGRAPH MOON  
• Monday  
≈ <circle> 6708 月
- 328B 火 CIRCLED IDEOGRAPH FIRE  
• Tuesday  
≈ <circle> 706B 火
- 328C 水 CIRCLED IDEOGRAPH WATER  
• Wednesday  
≈ <circle> 6C34 水
- 328D 木 CIRCLED IDEOGRAPH WOOD  
• Thursday  
≈ <circle> 6728 木
- 328E 金 CIRCLED IDEOGRAPH METAL  
• Friday  
≈ <circle> 91D1 金
- 328F 土 CIRCLED IDEOGRAPH EARTH  
• Saturday  
≈ <circle> 571F 土
- 3290 日 CIRCLED IDEOGRAPH SUN  
• Sunday  
≈ <circle> 65E5 日
- 3291 株 CIRCLED IDEOGRAPH STOCK  
• incorporated  
≈ <circle> 682A 株
- 3292 有 CIRCLED IDEOGRAPH HAVE  
• limited  
≈ <circle> 6709 有
- 3293 社 CIRCLED IDEOGRAPH SOCIETY  
• company  
≈ <circle> 793E 社
- 3294 名 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 监 CIRCLED IDEOGRAPH SUPERVISE  
≈ <circle> 76E3 监
- 32AD 企 CIRCLED IDEOGRAPH ENTERPRISE  
≈ <circle> 4F01 企
- 32AE 资 CIRCLED IDEOGRAPH RESOURCE  
≈ <circle> 8CC7 资
- 32AF 协 CIRCLED IDEOGRAPH ALLIANCE  
≈ <circle> 5354 协
- 32B0 夜 CIRCLED IDEOGRAPH NIGHT  
≈ <circle> 591C 夜

**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 ア CIRCLED KATAKANA A  
≈ <circle> 30A2 ア
- 32D1 イ CIRCLED KATAKANA I  
≈ <circle> 30A4 イ
- 32D2 ウ CIRCLED KATAKANA U  
≈ <circle> 30A6 ウ
- 32D3 エ CIRCLED KATAKANA E  
≈ <circle> 30A8 エ
- 32D4 オ CIRCLED KATAKANA O  
≈ <circle> 30AA オ
- 32D5 カ CIRCLED KATAKANA KA  
≈ <circle> 30AB カ
- 32D6 キ CIRCLED KATAKANA KI  
≈ <circle> 30AD キ

32D7 ㇶ CIRCLED KATAKANA KU  
 ≈ <circle> 30AF ク  
 32D8 ㇷ CIRCLED KATAKANA KE  
 ≈ <circle> 30B1 ケ  
 32D9 ㇸ CIRCLED KATAKANA KO  
 ≈ <circle> 30B3 コ  
 32DA ㇹ CIRCLED KATAKANA SA  
 ≈ <circle> 30B5 サ  
 32DB ㇺ CIRCLED KATAKANA SI  
 ≈ <circle> 30B7 シ  
 32DC ㇻ CIRCLED KATAKANA SU  
 ≈ <circle> 30B9 ス  
 32DD ㇼ CIRCLED KATAKANA SE  
 ≈ <circle> 30BB セ  
 32DE ㇽ CIRCLED KATAKANA SO  
 ≈ <circle> 30BD ソ  
 32DF ㇾ CIRCLED KATAKANA TA  
 ≈ <circle> 30BF タ  
 32E0 ㇿ CIRCLED KATAKANA TI  
 ≈ <circle> 30C1 チ  
 32E1 ㊀ CIRCLED KATAKANA TU  
 ≈ <circle> 30C4 ツ  
 32E2 ㊁ CIRCLED KATAKANA TE  
 ≈ <circle> 30C6 テ  
 32E3 ㊂ CIRCLED KATAKANA TO  
 ≈ <circle> 30C8 ト  
 32E4 ㊃ CIRCLED KATAKANA NA  
 ≈ <circle> 30CA ナ  
 32E5 ㊄ CIRCLED KATAKANA NI  
 ≈ <circle> 30CB ニ  
 32E6 ㊅ CIRCLED KATAKANA NU  
 ≈ <circle> 30CC ヌ  
 32E7 ㊆ CIRCLED KATAKANA NE  
 ≈ <circle> 30CD ネ  
 32E8 ㊇ CIRCLED KATAKANA NO  
 ≈ <circle> 30CE ノ  
 32E9 ㊈ CIRCLED KATAKANA HA  
 ≈ <circle> 30CF ハ  
 32EA ㊉ 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 エ  
 32FE ㊝ CIRCLED KATAKANA WO  
 ≈ <circle> 30F2 オ

	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 ド 3340	ユア ン 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 ング 3321	ビル 3331	ホル 3341	リッ トル 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 リー 3312	セン チ 3322	ファ ラッド 3332	ホー ン 3342	リ ラ 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 ダー 3313	セン ト 3323	フィ ート 3333	マイ クロ 3343	ルピ ー 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	イニ ング 3304	キ ロ 3314	ダー ス 3324	ブッ シエ ル 3334	マイ ル 3344	ルー ブル 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 チ 3305	キロ グラム 3315	デ シ 3325	フラ ン 3335	マッ ハ 3345	レ ム 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 ン 3306	キロメ ートル 3316	ドル 3326	ヘク ター ル 3336	マル ク 3346	レン トゲン 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 クード 3307	キロ ワット 3317	トン 3327	ペ ソ 3337	マン ション 3347	ワッ ト 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 カー 3308	グラ ム 3318	ナ ノ 3328	ペニ ヒ 3338	ミク ロン 3348	0点 3358	16点 3368	dm <sup>2</sup> 3378	cal 3388	kℓ 3398	m/s <sup>2</sup> 33A8	kV 33B8	dB 33C8	p.m. 33D8	9日 33E8	25日 33F8
9	オン ス 3309	グラ ムトン 3319	ノッ ト 3329	ヘル ツ 3339	ミ リ 3349	1点 3359	17点 3369	dm <sup>3</sup> 3379	kcal 3389	fm 3399	Pa 33A9	MV 33B9	Gy 33C9	PPM 33D9	10日 33E9	26日 33F9
A	オー ム 330A	クル ゼイ ロ 331A	ハイ ツ 332A	ペン ス 333A	ミリ バール 334A	2点 335A	18点 336A	IU 337A	pF 338A	nm 339A	kPa 33AA	pW 33BA	ha 33CA	PR 33DA	11日 33EA	27日 33FA
B	カイ リ 330B	クロ ーネ 331B	パー セント 332B	ペー ジ 333B	メガ 334B	3点 335B	19点 336B	平成 337B	nF 338B	μm 339B	MPa 33AB	nW 33BB	HP 33CB	sr 33DB	12日 33EB	28日 33FB
C	カラ ット 330C	ケー ス 331C	パー ツ 332C	ベータ 333C	メガ トン 334C	4点 335C	20点 336C	昭和 337C	μF 338C	mm 339C	GPa 33AC	μW 33BC	in 33CC	Sv 33DC	13日 33EC	29日 33FC
D	カロ リー 330D	コル ナ 331D	バー レル 332D	ポイ ント 333D	メー トル 334D	5点 335D	21点 336D	大正 337D	μg 338D	cm 339D	rad 33AD	mW 33BD	K.K. 33CD	Wb 33DD	14日 33ED	30日 33FD
E	ガロ ン 330E	コー ポ 331E	ピア スト ル 332E	ボル ト 333E	ヤード 334E	6点 335E	22点 336E	明治 337E	mg 338E	km 339E	rad/s 33AE	kW 33BE	KM 33CE	Y/m 33DE	15日 33EE	31日 33FE
F	ガン マ 330F	サイ クル 331F	ピク ル 332F	ホン 333F	ヤール 334F	7点 335F	23点 336F	株式 会社 337F	kg 338F	mm <sup>2</sup> 339F	rad/s <sup>2</sup> 33AF	MW 33BF	kt 33CF	A/m 33DF	16日 33EF	gal 33FF

**Squared Katakana words**

3300	アパ ート	<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	アル 	<b>SQUARE AARU</b> • are (unit of area) ≈ <square> 30A2 ア 30FC ー 30EB ル
3304	イン グ	<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 ー	<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 ーネ	<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 ング	<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 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 ツ	<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 ド
3333	フ ィート	<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 ド
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 ン 30B7 シ 30E7 ヨ 30F3 ン
3348	ミ クロン	<b>SQUARE MIKURON</b> • micron ≈<square> 30DF ミ 30AF ク 30ED ロ 30F3 ン

3349	ミリ	SQUARE MIRI • milli- ≈ <square> 30DF ミ 30EA リ
334A	ミリ バル	SQUARE MIRIBAARU • millibar ≈ <square> 30DF ミ 30EA リ 30D0 バ 30FC ー 30EB ル
334B	メガ	SQUARE MEGA • mega- ≈ <square> 30E1 メ 30AC ガ
334C	メガ トン	SQUARE MEGATON • megaton ≈ <square> 30E1 メ 30AC ガ 30C8 ト 30F3 ン
334D	メー トル	SQUARE MEETORU • meter ≈ <square> 30E1 メ 30FC ー 30C8 ト 30EB ル
334E	ヤード	SQUARE YAADO • yard ≈ <square> 30E4 ヤ 30FC ー 30C9 ト
334F	ヤード	SQUARE YAARU • yard ≈ <square> 30E4 ヤ 30FC ー 30EB ル
3350	ユア	SQUARE YUAN • yuan (Chinese currency) ≈ <square> 30E6 ユ 30A2 ア 30F3 ン
3351	リットル	SQUARE RITTORU • liter ≈ <square> 30EA リ 30C3 ツ 30C8 ト 30EB ル
3352	リラ	SQUARE RIRA • lira ≈ <square> 30EA リ 30E9 ラ
3353	ルピー	SQUARE RUPII • rupee ≈ <square> 30EB ル 30D4 ピ 30FC ー
3354	ルーブル	SQUARE RUUBURU • ruble ≈ <square> 30EB ル 30FC ー 30D6 ブ 30EB ル
3355	レム	SQUARE REMU • rem (unit of radiation) ≈ <square> 30EC レ 30E0 ム
3356	レントゲン	SQUARE RENTOGEN • roentgen ≈ <square> 30EC レ 30F3 ン 30C8 ト 30B2 ゲ 30F3 ン
3357	ワット	SQUARE WATTO • watt ≈ <square> 30EF ワ 30C3 ツ 30C8 ト
<b>Telegraph symbols for hours</b>		
3358	0点	IDEOGRAPHIC TELEGRAPH SYMBOL FOR HOUR ZERO ≈ 0030 0 70B9 点
3359	1点	IDEOGRAPHIC TELEGRAPH SYMBOL FOR HOUR ONE ≈ 0031 1 70B9 点
335A	2点	IDEOGRAPHIC TELEGRAPH SYMBOL FOR HOUR TWO ≈ 0032 2 70B9 点
335B	3点	IDEOGRAPHIC TELEGRAPH SYMBOL FOR HOUR THREE ≈ 0033 3 70B9 点
335C	4点	IDEOGRAPHIC TELEGRAPH SYMBOL FOR HOUR FOUR ≈ 0034 4 70B9 点
335D	5点	IDEOGRAPHIC TELEGRAPH SYMBOL FOR HOUR FIVE ≈ 0035 5 70B9 点
335E	6点	IDEOGRAPHIC TELEGRAPH SYMBOL FOR HOUR SIX ≈ 0036 6 70B9 点
335F	7点	IDEOGRAPHIC TELEGRAPH SYMBOL FOR HOUR SEVEN ≈ 0037 7 70B9 点
3360	8点	IDEOGRAPHIC TELEGRAPH SYMBOL FOR HOUR EIGHT ≈ 0038 8 70B9 点
3361	9点	IDEOGRAPHIC TELEGRAPH SYMBOL FOR HOUR NINE ≈ 0039 9 70B9 点
3362	10点	IDEOGRAPHIC TELEGRAPH SYMBOL FOR HOUR TEN ≈ 0031 1 0030 0 70B9 点
3363	11点	IDEOGRAPHIC TELEGRAPH SYMBOL FOR HOUR ELEVEN ≈ 0031 1 0031 1 70B9 点
3364	12点	IDEOGRAPHIC TELEGRAPH SYMBOL FOR HOUR TWELVE ≈ 0031 1 0032 2 70B9 点
3365	13点	IDEOGRAPHIC TELEGRAPH SYMBOL FOR HOUR THIRTEEN ≈ 0031 1 0033 3 70B9 点
3366	14点	IDEOGRAPHIC TELEGRAPH SYMBOL FOR HOUR FOURTEEN ≈ 0031 1 0034 4 70B9 点
3367	15点	IDEOGRAPHIC TELEGRAPH SYMBOL FOR HOUR FIFTEEN ≈ 0031 1 0035 5 70B9 点
3368	16点	IDEOGRAPHIC TELEGRAPH SYMBOL FOR HOUR SIXTEEN ≈ 0031 1 0036 6 70B9 点
3369	17点	IDEOGRAPHIC TELEGRAPH SYMBOL FOR HOUR SEVENTEEN ≈ 0031 1 0037 7 70B9 点
336A	18点	IDEOGRAPHIC TELEGRAPH SYMBOL FOR HOUR EIGHTEEN ≈ 0031 1 0038 8 70B9 点
336B	19点	IDEOGRAPHIC TELEGRAPH SYMBOL FOR HOUR NINETEEN ≈ 0031 1 0039 9 70B9 点
336C	20点	IDEOGRAPHIC TELEGRAPH SYMBOL FOR HOUR TWENTY ≈ 0032 2 0030 0 70B9 点
336D	21点	IDEOGRAPHIC TELEGRAPH SYMBOL FOR HOUR TWENTY-ONE ≈ 0032 2 0031 1 70B9 点
336E	22点	IDEOGRAPHIC TELEGRAPH SYMBOL FOR HOUR TWENTY-TWO ≈ 0032 2 0032 2 70B9 点
336F	23点	IDEOGRAPHIC TELEGRAPH SYMBOL FOR HOUR TWENTY-THREE ≈ 0032 2 0033 3 70B9 点

3370 24点 IDEOGRAPHIC TELEGRAPH SYMBOL FOR HOUR  
TWENTY-FOUR  
≈ 0032 2 0034 4 70B9 点

**Squared Latin abbreviations**

3371 hPa SQUARE HPA  
≈ <square> 0068 h 0050 P 0061 a

3372 da SQUARE DA  
≈ <square> 0064 d 0061 a

3373 AU SQUARE AU  
≈ <square> 0041 A 0055 U

3374 bar SQUARE BAR  
≈ <square> 0062 b 0061 a 0072 r

3375 oV SQUARE OV  
≈ <square> 006F o 0056 V

3376 pc SQUARE PC  
≈ <square> 0070 p 0063 c

3377 dm SQUARE DM  
≈ <square> 0064 d 006D m

3378 dm<sup>2</sup> SQUARE DM SQUARED  
≈ <square> 0064 d 006D m 00B2 <sup>2</sup>

3379 dm<sup>3</sup> SQUARE DM CUBED  
≈ <square> 0064 d 006D m 00B3 <sup>3</sup>

337A IU SQUARE IU  
≈ <square> 0049 I 0055 U

**Japanese era names**

337B 平成 SQUARE ERA NAME HEISEI  
≈ <square> 5E73 平 6210 成

337C 昭和 SQUARE ERA NAME SYOUWA  
≈ <square> 662D 昭 548C 和

337D 大正 SQUARE ERA NAME TAISYOU  
≈ <square> 5927 大 6B63 正

337E 明治 SQUARE ERA NAME MEIZI  
≈ <square> 660E 明 6CBB 治

**Japanese corporation**

337F 株式会社 SQUARE CORPORATION  
= kabusiki-gaisya  
• incorporated  
≈ <square> 682A 株 5F0F 式 4F1A 会  
793E 社

**Squared Latin abbreviations**

3380 pA SQUARE PA AMPS  
≈ <square> 0070 p 0041 A

3381 nA SQUARE NA  
≈ <square> 006E n 0041 A

3382 μA SQUARE MU A  
≈ <square> 03BC μ 0041 A

3383 mA SQUARE MA  
≈ <square> 006D m 0041 A

3384 kA SQUARE KA  
≈ <square> 006B k 0041 A

3385 KB SQUARE KB  
≈ <square> 004B K 0042 B

3386 MB SQUARE MB  
≈ <square> 004D M 0042 B

3387 GB SQUARE GB  
≈ <square> 0047 G 0042 B

3388 cal SQUARE CAL  
≈ <square> 0063 c 0061 a 006C l

3389 kcal SQUARE KCAL  
≈ <square> 006B k 0063 c 0061 a 006C l

338A pF SQUARE PF  
≈ <square> 0070 p 0046 F

338B nF SQUARE NF  
≈ <square> 006E n 0046 F

338C μF SQUARE MU F  
≈ <square> 03BC μ 0046 F

338D μg SQUARE MU G  
≈ <square> 03BC μ 0067 g

338E mg SQUARE MG  
≈ <square> 006D m 0067 g

338F kg SQUARE KG  
≈ <square> 006B k 0067 g

3390 Hz SQUARE HZ  
≈ <square> 0048 H 007A z

3391 kHz SQUARE KHZ  
≈ <square> 006B k 0048 H 007A z

3392 MHz SQUARE MHZ  
≈ <square> 004D M 0048 H 007A z

3393 GHz SQUARE GHZ  
≈ <square> 0047 G 0048 H 007A z

3394 THz SQUARE THZ  
≈ <square> 0054 T 0048 H 007A z

3395 μℓ SQUARE MU L  
≈ <square> 03BC μ 2113 ℓ

3396 mℓ SQUARE ML  
≈ <square> 006D m 2113 ℓ

3397 dℓ SQUARE DL  
≈ <square> 0064 d 2113 ℓ

3398 kℓ SQUARE KL  
≈ <square> 006B k 2113 ℓ

3399 fm SQUARE FM  
≈ <square> 0066 f 006D m

339A nm SQUARE NM  
≈ <square> 006E n 006D m

339B μm SQUARE MU M  
≈ <square> 03BC μ 006D m

339C mm SQUARE MM  
≈ <square> 006D m 006D m

339D cm SQUARE CM  
≈ <square> 0063 c 006D m

339E km SQUARE KM  
≈ <square> 006B k 006D m

339F mm<sup>2</sup> SQUARE MM SQUARED  
≈ <square> 006D m 006D m 00B2 <sup>2</sup>

33A0 cm<sup>2</sup> SQUARE CM SQUARED  
≈ <square> 0063 c 006D m 00B2 <sup>2</sup>

33A1 m<sup>2</sup> SQUARE M SQUARED  
≈ <square> 006D m 00B2 <sup>2</sup>

33A2 km<sup>2</sup> SQUARE KM SQUARED  
≈ <square> 006B k 006D m 00B2 <sup>2</sup>

33A3 mm<sup>3</sup> SQUARE MM CUBED  
≈ <square> 006D m 006D m 00B3 <sup>3</sup>

33A4 cm<sup>3</sup> SQUARE CM CUBED  
≈ <square> 0063 c 006D m 00B3 <sup>3</sup>

33A5 m<sup>3</sup> SQUARE M CUBED  
≈ <square> 006D m 00B3 <sup>3</sup>

33A6 km<sup>3</sup> SQUARE KM CUBED  
≈ <square> 006B k 006D m 00B3 <sup>3</sup>

33A7 m/s SQUARE M OVER S  
≈ <square> 006D m 2215 / 0073 s

33A8 m/s<sup>2</sup> SQUARE M OVER S SQUARED  
≈ <square> 006D m 2215 / 0073 s 00B2 <sup>2</sup>



33A9 Pa SQUARE PA  
 $\approx \langle \text{square} \rangle 0050 \text{ P } 0061 \text{ a}$

33AA kPa SQUARE KPA  
 $\approx \langle \text{square} \rangle 006B \text{ k } 0050 \text{ P } 0061 \text{ a}$

33AB MPa SQUARE MPA  
 $\approx \langle \text{square} \rangle 004D \text{ M } 0050 \text{ P } 0061 \text{ a}$

33AC GPa SQUARE GPA  
 $\approx \langle \text{square} \rangle 0047 \text{ G } 0050 \text{ P } 0061 \text{ a}$

33AD rad SQUARE RAD  
 $\approx \langle \text{square} \rangle 0072 \text{ r } 0061 \text{ a } 0064 \text{ d}$

33AE rad/s SQUARE RAD OVER S  
 $\approx \langle \text{square} \rangle 0072 \text{ r } 0061 \text{ a } 0064 \text{ d } 2215 / 0073 \text{ s}$

33AF rad/s<sup>2</sup> SQUARE RAD OVER S SQUARED  
 $\approx \langle \text{square} \rangle 0072 \text{ r } 0061 \text{ a } 0064 \text{ d } 2215 / 0073 \text{ s } 00B2^2$

33B0 ps SQUARE PS  
 $\approx \langle \text{square} \rangle 0070 \text{ p } 0073 \text{ s}$

33B1 ns SQUARE NS  
 $\approx \langle \text{square} \rangle 006E \text{ n } 0073 \text{ s}$

33B2  $\mu\text{s}$  SQUARE MU S  
 $\approx \langle \text{square} \rangle 03BC \mu 0073 \text{ s}$

33B3 ms SQUARE MS  
 $\approx \langle \text{square} \rangle 006D \text{ m } 0073 \text{ s}$

33B4 pV SQUARE PV  
 $\approx \langle \text{square} \rangle 0070 \text{ p } 0056 \text{ V}$

33B5 nV SQUARE NV  
 $\approx \langle \text{square} \rangle 006E \text{ n } 0056 \text{ V}$

33B6  $\mu\text{V}$  SQUARE MU V  
 $\approx \langle \text{square} \rangle 03BC \mu 0056 \text{ V}$

33B7 mV SQUARE MV  
 $\approx \langle \text{square} \rangle 006D \text{ m } 0056 \text{ V}$

33B8 kV SQUARE KV  
 $\approx \langle \text{square} \rangle 006B \text{ k } 0056 \text{ V}$

33B9 MV SQUARE MV MEGA  
 $\approx \langle \text{square} \rangle 004D \text{ M } 0056 \text{ V}$

33BA pW SQUARE PW  
 $\approx \langle \text{square} \rangle 0070 \text{ p } 0057 \text{ W}$

33BB nW SQUARE NW  
 $\approx \langle \text{square} \rangle 006E \text{ n } 0057 \text{ W}$

33BC  $\mu\text{W}$  SQUARE MU W  
 $\approx \langle \text{square} \rangle 03BC \mu 0057 \text{ W}$

33BD mW SQUARE MW  
 $\approx \langle \text{square} \rangle 006D \text{ m } 0057 \text{ W}$

33BE kW SQUARE KW  
 $\approx \langle \text{square} \rangle 006B \text{ k } 0057 \text{ W}$

33BF MW SQUARE MW MEGA  
 $\approx \langle \text{square} \rangle 004D \text{ M } 0057 \text{ W}$

33C0 k $\Omega$  SQUARE K OHM  
 $\approx \langle \text{square} \rangle 006B \text{ k } 03A9 \Omega$

33C1 M $\Omega$  SQUARE M OHM  
 $\approx \langle \text{square} \rangle 004D \text{ M } 03A9 \Omega$

33C2 a.m. SQUARE AM  
 $\approx \langle \text{square} \rangle 0061 \text{ a } 002E . 006D \text{ m } 002E .$

33C3 Bq SQUARE BQ  
 $\approx \langle \text{square} \rangle 0042 \text{ B } 0071 \text{ q}$

33C4 cc SQUARE CC  
 $\approx \langle \text{square} \rangle 0063 \text{ c } 0063 \text{ c}$

33C5 cd SQUARE CD  
 $\rightarrow 1F12D \textcircled{C}$  circled cd  
 $\approx \langle \text{square} \rangle 0063 \text{ c } 0064 \text{ d}$

33C6 C/kg SQUARE C OVER KG  
 $\approx \langle \text{square} \rangle 0043 \text{ C } 2215 / 006B \text{ k } 0067 \text{ g}$

33C7 Co. SQUARE CO  
 $\approx \langle \text{square} \rangle 0043 \text{ C } 006F \text{ o } 002E .$

33C8 dB SQUARE DB  
 $\approx \langle \text{square} \rangle 0064 \text{ d } 0042 \text{ B}$

33C9 Gy SQUARE GY  
 $\approx \langle \text{square} \rangle 0047 \text{ G } 0079 \text{ y}$

33CA ha SQUARE HA  
 $\approx \langle \text{square} \rangle 0068 \text{ h } 0061 \text{ a}$

33CB HP SQUARE HP  
 $\approx \langle \text{square} \rangle 0048 \text{ H } 0050 \text{ P}$

33CC in SQUARE IN  
 $\approx \langle \text{square} \rangle 0069 \text{ i } 006E \text{ n}$

33CD Kk SQUARE KK  
 $\approx \langle \text{square} \rangle 004B \text{ K } 004B \text{ K}$

33CE KM SQUARE KM CAPITAL  
 $\approx \langle \text{square} \rangle 004B \text{ K } 004D \text{ M}$

33CF kt SQUARE KT  
 $\approx \langle \text{square} \rangle 006B \text{ k } 0074 \text{ t}$

33D0 lm SQUARE LM  
 $\approx \langle \text{square} \rangle 006C \text{ l } 006D \text{ m}$

33D1 ln SQUARE LN  
 $\approx \langle \text{square} \rangle 006C \text{ l } 006E \text{ n}$

33D2 log SQUARE LOG  
 $\approx \langle \text{square} \rangle 006C \text{ l } 006F \text{ o } 0067 \text{ g}$

33D3 lx SQUARE LX  
 $\approx \langle \text{square} \rangle 006C \text{ l } 0078 \text{ x}$

33D4 mb SQUARE MB SMALL  
 $\approx \langle \text{square} \rangle 006D \text{ m } 0062 \text{ b}$

33D5 mil SQUARE MIL  
 $\approx \langle \text{square} \rangle 006D \text{ m } 0069 \text{ i } 006C \text{ l}$

33D6 mol SQUARE MOL  
 $\approx \langle \text{square} \rangle 006D \text{ m } 006F \text{ o } 006C \text{ l}$

33D7 pH SQUARE PH  
 $\approx \langle \text{square} \rangle 0050 \text{ P } 0048 \text{ H}$

33D8 p.m. SQUARE PM  
 $\approx \langle \text{square} \rangle 0070 \text{ p } 002E . 006D \text{ m } 002E .$

33D9 PPM SQUARE PPM  
 $\approx \langle \text{square} \rangle 0050 \text{ P } 0050 \text{ P } 004D \text{ M}$

33DA PR SQUARE PR  
 $\approx \langle \text{square} \rangle 0050 \text{ P } 0052 \text{ R}$

33DB sr SQUARE SR  
 $\approx \langle \text{square} \rangle 0073 \text{ s } 0072 \text{ r}$

33DC Sv SQUARE SV  
 $\approx \langle \text{square} \rangle 0053 \text{ S } 0076 \text{ v}$

33DD Wb SQUARE WB  
 $\approx \langle \text{square} \rangle 0057 \text{ W } 0062 \text{ b}$

33DE  $\frac{\text{V}}{\text{m}}$  SQUARE V OVER M  
 $\approx \langle \text{square} \rangle 0056 \text{ V } 2215 / 006D \text{ m}$

33DF  $\frac{\text{A}}{\text{m}}$  SQUARE A OVER M  
 $\approx \langle \text{square} \rangle 0041 \text{ A } 2215 / 006D \text{ m}$

**Telegraph symbols for days**

33E0 1日 IDEOGRAPHIC TELEGRAPH SYMBOL FOR DAY ONE  
 $\approx 0031 \text{ 1 } 65E5 \text{ 日}$

33E1 2日 IDEOGRAPHIC TELEGRAPH SYMBOL FOR DAY TWO  
 $\approx 0032 \text{ 2 } 65E5 \text{ 日}$

33E2 3日 IDEOGRAPHIC TELEGRAPH SYMBOL FOR DAY THREE  
 $\approx 0033 \text{ 3 } 65E5 \text{ 日}$

33E3 4H IDEOGRAPHIC TELEGRAPH SYMBOL FOR DAY FOUR  
 ≈ 0034 4 65E5 H

33E4 5H IDEOGRAPHIC TELEGRAPH SYMBOL FOR DAY FIVE  
 ≈ 0035 5 65E5 H

33E5 6H IDEOGRAPHIC TELEGRAPH SYMBOL FOR DAY SIX  
 ≈ 0036 6 65E5 H

33E6 7H IDEOGRAPHIC TELEGRAPH SYMBOL FOR DAY SEVEN  
 ≈ 0037 7 65E5 H

33E7 8H IDEOGRAPHIC TELEGRAPH SYMBOL FOR DAY EIGHT  
 ≈ 0038 8 65E5 H

33E8 9H IDEOGRAPHIC TELEGRAPH SYMBOL FOR DAY NINE  
 ≈ 0039 9 65E5 H

33E9 10H IDEOGRAPHIC TELEGRAPH SYMBOL FOR DAY TEN  
 ≈ 0031 1 0030 0 65E5 H

33EA 11H IDEOGRAPHIC TELEGRAPH SYMBOL FOR DAY ELEVEN  
 ≈ 0031 1 0031 1 65E5 H

33EB 12H IDEOGRAPHIC TELEGRAPH SYMBOL FOR DAY TWELVE  
 ≈ 0031 1 0032 2 65E5 H

33EC 13H IDEOGRAPHIC TELEGRAPH SYMBOL FOR DAY THIRTEEN  
 ≈ 0031 1 0033 3 65E5 H

33ED 14H IDEOGRAPHIC TELEGRAPH SYMBOL FOR DAY FOURTEEN  
 ≈ 0031 1 0034 4 65E5 H

33EE 15H IDEOGRAPHIC TELEGRAPH SYMBOL FOR DAY FIFTEEN  
 ≈ 0031 1 0035 5 65E5 H

33EF 16H IDEOGRAPHIC TELEGRAPH SYMBOL FOR DAY SIXTEEN  
 ≈ 0031 1 0036 6 65E5 H

33F0 17H IDEOGRAPHIC TELEGRAPH SYMBOL FOR DAY SEVENTEEN  
 ≈ 0031 1 0037 7 65E5 H

33F1 18H IDEOGRAPHIC TELEGRAPH SYMBOL FOR DAY EIGHTEEN  
 ≈ 0031 1 0038 8 65E5 H

33F2 19H IDEOGRAPHIC TELEGRAPH SYMBOL FOR DAY NINETEEN  
 ≈ 0031 1 0039 9 65E5 H

33F3 20H IDEOGRAPHIC TELEGRAPH SYMBOL FOR DAY TWENTY  
 ≈ 0032 2 0030 0 65E5 H

33F4 21H IDEOGRAPHIC TELEGRAPH SYMBOL FOR DAY TWENTY-ONE  
 ≈ 0032 2 0031 1 65E5 H

33F5 22H IDEOGRAPHIC TELEGRAPH SYMBOL FOR DAY TWENTY-TWO  
 ≈ 0032 2 0032 2 65E5 H

33F6 23H IDEOGRAPHIC TELEGRAPH SYMBOL FOR DAY TWENTY-THREE  
 ≈ 0032 2 0033 3 65E5 H

33F7 24H IDEOGRAPHIC TELEGRAPH SYMBOL FOR DAY TWENTY-FOUR  
 ≈ 0032 2 0034 4 65E5 H

33F8 25H IDEOGRAPHIC TELEGRAPH SYMBOL FOR DAY TWENTY-FIVE  
 ≈ 0032 2 0035 5 65E5 H

33F9 26H IDEOGRAPHIC TELEGRAPH SYMBOL FOR DAY TWENTY-SIX  
 ≈ 0032 2 0036 6 65E5 H

33FA 27H IDEOGRAPHIC TELEGRAPH SYMBOL FOR DAY TWENTY-SEVEN  
 ≈ 0032 2 0037 7 65E5 H

33FB 28H IDEOGRAPHIC TELEGRAPH SYMBOL FOR DAY TWENTY-EIGHT  
 ≈ 0032 2 0038 8 65E5 H

33FC 29H IDEOGRAPHIC TELEGRAPH SYMBOL FOR DAY TWENTY-NINE  
 ≈ 0032 2 0039 9 65E5 H

33FD 30H IDEOGRAPHIC TELEGRAPH SYMBOL FOR DAY THIRTY  
 ≈ 0033 3 0030 0 65E5 H

33FE 31H IDEOGRAPHIC TELEGRAPH SYMBOL FOR DAY THIRTY-ONE  
 ≈ 0033 3 0031 1 65E5 H

**Squared Latin abbreviation**

33FF gal SQUARE GAL  
 ≈ <square> 0067 g 0061 a 006C l