

Universal Multiple-Octet Coded Character Set
International Organization for Standardization
Organisation Internationale de Normalisation
Международная организация по стандартизации

Doc Type: Working Group Document

Title: Consolidated code chart including proposed phonetic and medieval characters

Source: Michael Everson and Kirk Miller

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Action: For consideration by JTC1/SC2/WG2 and UTC

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The charts attached present the recommended code positions for a number of documents related to the addition of IPA, phonetic, and medievalist characters to the repertoire. Cells marked in yellow indicate characters which the script ad-hoc has not formally approved as of this date.

	1AB	1AC	1AD	1AE	1AF
0					
1		(○ 1AC1			
2		) ○ 1AC2			
3		(○ 1AC3			
4		) ○ 1AC4			
5		[] ○ 1AC5			
6		# ○ 1AC6			
7		~ ○ 1AC7			
8		+ ○ 1AC8			
9		/// ○ 1AC9			
A		ς ○ 1ACA			
B		ρ ○ 1ACB			
C		τ ○ 1ACC			
D		○ 1ACD			
E					
F					

IPA characters for disordered speech

- 1AC1 ◌[◌] COMBINING LEFT PARENTHESIS ABOVE LEFT
→ 1ABB ◌[◌] combining parentheses above
- 1AC2 ◌[◌] COMBINING LEFT PARENTHESIS ABOVE RIGHT
- 1AC3 ◌_◌ COMBINING LEFT PARENTHESIS BELOW LEFT
→ 1ABD ◌_◌ combining parentheses below
- 1AC4 ◌_◌ COMBINING LEFT PARENTHESIS BELOW RIGHT

Additional diacritics

- 1AC5 ◌^{◌◌} COMBINING SQUARE BRACKETS ABOVE
- 1AC6 ◌⁺ COMBINING NUMBER SIGN
- 1AC7 ◌[◌] COMBINING INVERTED DOUBLE ARCH ABOVE
• used over letters with a descender
→ 032B ◌[◌] combining inverted double arch below
- 1AC8 ◌⁺ COMBINING PLUS SIGN ABOVE
→ 031F ◌₊ combining plus sign below

Diacritics for the Middle English**Ormulum**

- 1AC9 ◌^{◌◌◌} COMBINING TRIPLE ACUTE ACCENT
→ 0308' ◌^{◌◌◌} combining double acute accent
- 1ACA ◌[◌] COMBINING LATIN SMALL LETTER INSULAR G
→ 1D79 ◌[◌] latin small letter insular g
- 1ACB ◌[◌] COMBINING LATIN SMALL LETTER INSULAR R
→ A783 ◌[◌] latin small letter insular r
- 1ACC ◌[◌] COMBINING LATIN SMALL LETTER INSULAR T
→ A787 ◌[◌] latin small letter insular t

Medieval abbreviation mark

- 1ACD ◌[◌] COMBINING OVERCURL
• used in medieval Cornish, English, and Scots
• used either as an abbreviation or an otiose mark
→ 0305 ◌[◌] combining overline
→ 031F ◌[◌] combining inverted breve

	2E0	2E1	2E2	2E3	2E4	2E5	2E6	2E7	2E8	2E9	2EA	2EB	2EC	2ED	2EE	2EF
0																
1																
2																
3						!										
4						?										
5																
6																
7																
8																
9																
A																
B																
C																
D																
E																
F																

Medieval punctuation

2E53	!	PUNCTUS EXCLAMATIVUS MARK
2E54	?	PUNCTUS INTERROGATIVUS MARK

	A72	A73	A74	A75	A76	A77	A78	A79	A7A	A7B	A7C	A7D	A7E	A7F
0												Œ A7D0		
1												Œ A7D1		
2												Ɔ A7D2		Ɔ A7F2
3												Ɔ A7D3		Ɔ A7F3
4												Ɔ A7D4		Ɔ A7F4
5												Ɔ A7D5		
6												Ɔ A7D6		
7												Ɔ A7D7		
8												Ɔ A7D8		
9												Ɔ A7D9		
A														
B											Ɔ A7CB			
C											Ɔ A7CC			
D														
E														
F														

Additional letters

A7CB	Θ	LATIN CAPITAL LETTER THETA → 0398 Θ greek capital letter theta → 03F4 Θ greek capital theta symbol
A7CC	θ	LATIN SMALL LETTER THETA → 03B8 θ greek small letter theta → 03D1 ϑ greek theta symbol

Letters for the Middle English**Ormulum**

A7D0	Œ	LATIN CAPITAL LETTER CLOSED INSULAR G
A7D1	œ	LATIN SMALL LETTER CLOSED INSULAR G → 1D79 ȝ latin small letter insular g
A7D2	Þ	LATIN CAPITAL LETTER DOUBLE THORN
A7D3	þ	LATIN SMALL LETTER DOUBLE THORN → 00FE þ latin small letter thorn
A7D4	ƿ	LATIN CAPITAL LETTER DOUBLE WYNN
A7D5	ƿ	LATIN SMALL LETTER DOUBLE WYNN → 01BF ƿ latin small letter wynn

Letters for Middle Scots

A7D6	ſ	LATIN CAPITAL LETTER MIDDLE SCOTS S
A7D7	ſ	LATIN SMALL LETTER MIDDLE SCOTS S → 00DF ȝ latin small letter sharp s

Letters for medieval palaeography

A7D8	ſ	LATIN CAPITAL LETTER SIGMOID S
A7D9	ſ	LATIN SMALL LETTER SIGMOID S → 017F ƒ latin small letter long s → 03C3 σ greek small letter sigma

Modifier letters

A7F2	ˆ	MODIFIER LETTER CAPITAL C • used as a tone letter in Chatino
A7F3	ˆ	MODIFIER LETTER CAPITAL F • used as a tone letter in Chatino
A7F4	ˆ	MODIFIER LETTER CAPITAL Q • indicates geminate consonants

	1078	1079	107A	107B
0	AA 10780	fh 10790	ſ 107A0	v 107B0
1	˙ 10781	Ÿ 10791	Ɔ 107A1	Ɔ 107B1
2	˙ 10782	G 10792	Ø 107A2	Y 107B2
3	æ 10783	ƒ 10793	Æ 107A3	ƒ 107B3
4	B 10784	G 10794	Ω 107A4	Ɔ 107B4
5	ḃ 10785	ħ 10795	q 107A5	⊙ 107B5
6	ß 10786	H 10796	I 107A6	 107B6
7	dz 10787	h 10797	l 107A7	 107B7
8	dz 10788	f 10798	ſ 107A8	† 107B8
9	dz 10789	ks 10799	r 107A9	! 107B9
A	dz 1078A	l 1079A	R 107AA	θ 107BA
B	d 1078B	† 1079B	ts 107AB	
C	d 1078C	L 1079C	ts 107AC	
D	d 1078D	t 1079D	ts 107AD	
E	ə 1078E	h 1079E	tf 107AE	
F	ə 1078F	h 1079F	t 107AF	

Voice Quality Symbol (VoQS)

10780 ^{AA} MODIFIER LETTER SMALL CAPITAL AA
→ A732 AA latin capital letter aa

Modifier letters for the IPA

10781 [:] MODIFIER LETTER SUPERScript TRIANGULAR COLON
≈ <super> 02D0 :

10782 [·] MODIFIER LETTER SUPERScript HALF TRIANGULAR COLON
≈ <super> 02D1 ·

10783 ^æ MODIFIER LETTER SMALL AE
≈ <super> 00E6 æ

10784 ^B MODIFIER LETTER SMALL CAPITAL B
≈ <super> 0299 B

10785 ^Ḃ MODIFIER LETTER SMALL B WITH HOOK
≈ <super> 0253 Ḃ

10786 ^β MODIFIER LETTER SMALL LATIN BETA
≈ <super> A7B5 β
→ 1D5D β modifier letter small beta

10787 ^{dz} MODIFIER LETTER SMALL DZ DIGRAPH
≈ <super> 02A3 dz

10788 ^Ḍ MODIFIER LETTER SMALL DZ DIGRAPH WITH RETROFLEX HOOK
≈ <super> AB66 Ḍ

10789 ^Ḑ MODIFIER LETTER SMALL DZ DIGRAPH WITH CURL
≈ <super> 02A5 Ḑ

1078A ^Ḍ MODIFIER LETTER SMALL DEZH DIGRAPH
≈ <super> 02A4 Ḍ

1078B ^Ḑ MODIFIER LETTER SMALL D WITH TAIL
≈ <super> 0256 Ḑ

1078C ^Ḑ MODIFIER LETTER SMALL D WITH HOOK
≈ <super> 0257 Ḑ

1078D ^Ḑ MODIFIER LETTER SMALL D WITH HOOK AND TAIL
≈ <super> 1D91 Ḑ

1078E ^Ḑ MODIFIER LETTER SMALL REVERSED E
≈ <super> 0258 Ḑ

1078F ^Ḑ MODIFIER LETTER SMALL CLOSED REVERSED OPEN E
≈ <super> 026E Ḑ

10790 ^Ḑ MODIFIER LETTER SMALL FENG DIGRAPH
≈ <super> 02A9 Ḑ

10791 ^Ḑ MODIFIER LETTER SMALL RAMS HORN
≈ <super> 0264 Ḑ

10792 ^G MODIFIER LETTER SMALL CAPITAL G
≈ <super> 0262 G

10793 ^Ḑ MODIFIER LETTER SMALL G WITH HOOK
≈ <super> 0260 Ḑ

10794 ^G MODIFIER LETTER SMALL CAPITAL G WITH HOOK
≈ <super> 029B Ḑ

10795 ^h MODIFIER LETTER SMALL H WITH STROKE
≈ <super> 0127 h

10796 ^H MODIFIER LETTER SMALL CAPITAL H
≈ <super> 029C H

10797 ^Ḑ MODIFIER LETTER SMALL HENG WITH HOOK
≈ <super> 0267 Ḑ

10798 ^f MODIFIER LETTER SMALL DOTLESS J WITH STROKE AND HOOK
≈ <super> 0284 f

10799 ^Ḑ MODIFIER LETTER SMALL LS DIGRAPH
≈ <super> 02AA Ḑ

1079A ^Ḑ MODIFIER LETTER SMALL LZ DIGRAPH
≈ <super> 02AB Ḑ

1079B ^Ḑ MODIFIER LETTER SMALL L WITH BELT
≈ <super> 026C Ḑ

1079C ^Ḑ MODIFIER LETTER SMALL CAPITAL L WITH BELT
≈ <super> 1DF04 Ḑ

1079D ^Ḑ MODIFIER LETTER SMALL L WITH RETROFLEX HOOK AND BELT
≈ <super> A78E Ḑ

1079E ^Ḑ MODIFIER LETTER SMALL LEZH
≈ <super> 026E Ḑ

1079F ^Ḑ MODIFIER LETTER SMALL LEZH WITH RETROFLEX HOOK
≈ <super> 1DF05 Ḑ

107A0 ^Ḑ MODIFIER LETTER SMALL TURNED Y
≈ <super> 028E Ḑ

107A1 ^Ḑ MODIFIER LETTER SMALL TURNED Y WITH BELT
≈ <super> 1DF06 Ḑ

107A2 ^Ḑ MODIFIER LETTER SMALL O WITH STROKE
≈ <super> 00F8 Ḑ

107A3 ^Ḑ MODIFIER LETTER SMALL CAPITAL OE
≈ <super> 0276 Ḑ

107A4 ^Ḑ MODIFIER LETTER SMALL CLOSED OMEGA
≈ <super> 0277 Ḑ

107A5 ^Ḑ MODIFIER LETTER SMALL Q
≈ <super> 0071 q

107A6 ^Ḑ MODIFIER LETTER SMALL TURNED R WITH LONG LEG
≈ <super> 027A Ḑ

107A7 ^Ḑ MODIFIER LETTER SMALL TURNED R WITH LONG LEG AND RETROFLEX HOOK
≈ <super> 1DF08 Ḑ

107A8 ^Ḑ MODIFIER LETTER SMALL R WITH TAIL
≈ <super> 027D Ḑ

107A9 ^Ḑ MODIFIER LETTER SMALL R WITH FISHHOOK
≈ <super> 027E Ḑ

107AA ^R MODIFIER LETTER SMALL CAPITAL R
≈ <super> 0280 R

107AB ^Ḑ MODIFIER LETTER SMALL TC DIGRAPH WITH CURL
≈ <super> 02A8 Ḑ

107AC ^Ḑ MODIFIER LETTER SMALL TS DIGRAPH
≈ <super> 02A6 Ḑ

107AD ^Ḑ MODIFIER LETTER SMALL TS DIGRAPH WITH RETROFLEX HOOK
≈ <super> AB67 Ḑ

107AE ^Ḑ MODIFIER LETTER TESH DIGRAPH
≈ <super> 02A7 Ḑ

107AF ^Ḑ MODIFIER LETTER T WITH RETROFLEX HOOK
≈ <super> 0288 Ḑ

107B0 ^v MODIFIER LETTER V WITH RIGHT HOOK
≈ <super> 2C71 v

107B1 ^x MODIFIER LETTER LATIN CHI
≈ <super> AB53 x
→ 1D61 x modifier letter small chi

107B2 ^Y MODIFIER LETTER SMALL CAPITAL Y
≈ <super> 028F Y

107B3 ^ʔ MODIFIER LETTER GLOTTAL STOP WITH STROKE
≈ <super> 02A1 ʔ

107B4 ^Ḑ MODIFIER LETTER REVERSED GLOTTAL STOP WITH STROKE
≈ <super> 02A2 Ḑ

107B5 ^Ḑ MODIFIER LETTER BILABIAL CLICK
≈ <super> 0298 Ḑ

107B6	^l	MODIFIER LETTER DENTAL CLICK ≈ <super> 01C0 ^l
107B7	^{ll}	MODIFIER LETTER LATERAL ≈ <super> 01C1 ^{ll}
107B8	[‡]	MODIFIER LETTER ALVEOLAR CLICK ≈ <super> 01C2 [‡]
107B9	[!]	MODIFIER LETTER RETROFLEX CLICK WITH RETROFLEX HOOK ≈ <super> 1DF0A [!]
107BA	^θ	MODIFIER LETTER LATIN THETA ≈ <super> A7CC ^θ → 1DBF ^θ modifier letter small theta

	1DF0	1DF1	1DF2	1DF3	1DF4	1DF5	1DF6	1DF7	1DF8	1DF9	1DFA	1DFB	1DFC	1DFD	1DFE	1DFF
0	ſ	ſ														
1	ſ	ſ														
2	ſ	ſ														
3	ſ	ſ														
4	ſ	ſ														
5	ſ	ſ														
6	ſ	ſ														
7	ſ	ſ														
8	ſ	ſ														
9	ſ	ſ														
A	ſ	ſ														
B	ſ	ſ														
C	ſ	ſ														
D	ſ															
E	ſ															
F	ſ															

IPA characters for disordered speech

1DF00	ɸ̥	LATIN SMALL LETTER FENG DIGRAPH WITH TRILL
1DF01	ɸ̥	LATIN SMALL LETTER REVERSED SCRIPT G
1DF02	ɸ̥	LATIN LETTER SMALL CAPITAL TURNED G
1DF03	ɸ̥	LATIN SMALL LETTER REVERSED K
1DF04	ɸ̥	LATIN LETTER SMALL CAPITAL L WITH BELT
1DF05	ɸ̥	LATIN SMALL LETTER LEZH WITH RETROFLEX HOOK
1DF06	ɸ̥	LATIN SMALL LETTER TURNED Y WITH BELT
1DF07	ɸ̥	LATIN SMALL LETTER REVERSED ENG

IPA extensions

1DF08	ɸ̥	LATIN SMALL LETTER TURNED R WITH LONG LEG AND RETROFLEX HOOK
1DF09	ɸ̥	LATIN SMALL LETTER T WITH HOOK AND RETROFLEX HOOK
1DF0A	ɸ̥	LATIN LETTER RETROFLEX CLICK WITH RETROFLEX HOOK

Beach click letters

1DF0B	ɸ̥	LATIN SMALL LETTER ESH WITH DOUBLE BAR
1DF0C	ɸ̥	LATIN SMALL LETTER ESH WITH DOUBLE BAR AND CURL
1DF0D	ɸ̥	LATIN SMALL LETTER TURNED T WITH CURL
1DF0E	ɸ̥	LATIN SMALL LETTER INVERTED GLOTTAL STOP WITH CURL
1DF0F	ɸ̥	LATIN SMALL LETTER STRETCHED C WITH CURL

Click letter

1DF10	ɸ̥	LATIN LETTER SMALL CAPITAL TURNED K
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Lateral letter

1DF11	ɸ̥	LATIN SMALL LETTER L WITH FISHHOOK
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Latin letters with palatal hook

1DF12	ɸ̥	LATIN SMALL LETTER DEZH WITH PALATAL HOOK
1DF13	ɸ̥	LATIN SMALL LETTER L WITH BELT AND PALATAL HOOK
1DF14	ɸ̥	LATIN SMALL LETTER ENG WITH PALATAL HOOK
1DF15	ɸ̥	LATIN SMALL LETTER TURNED R WITH PALATAL HOOK
1DF16	ɸ̥	LATIN SMALL LETTER R WITH FISHHOOK AND PALATAL HOOK
1DF17	ɸ̥	LATIN SMALL LETTER TESH WITH PALATAL HOOK
1DF18	ɸ̥	LATIN SMALL LETTER EZH WITH PALATAL HOOK

Latin letters with retroflex hook

1DF19	ɸ̥	LATIN SMALL LETTER DEZH WITH RETROFLEX HOOK
1DF1A	ɸ̥	LATIN SMALL LETTER I WITH STROKE AND RETROFLEX HOOK
1DF1B	ɸ̥	LATIN SMALL LETTER O WITH RETROFLEX HOOK
1DF1C	ɸ̥	LATIN SMALL LETTER TESH WITH RETROFLEX HOOK