

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

Doc Type: Working Group Document

Title: [Proposal to encode dashed-box symbols in Plane 14 of the UCS](#)
Source: Michael Everson
Status: Individual Contribution
Action: For consideration by JTC1/SC2/WG2 and UTC
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1. Introduction. ISO/IEC 10646 and the Unicode Standard make use of 545 glyphs consisting of dashed boxes with some sort of content inside to inform the user as to the use of the formatting or control character which these characters usually represent. (See *The Unicode Standard* Version 15 §24.1.)

This proposal requests the creation of a new block in Plane 14, scoped from E1000–E12FF, to be called “Dashed Boxes”, for encoding as graphic printable characters the glyphs used in the code charts, so that such glyphs can be made available to all users of the standard in an interchangeable way. Since many of these characters are control characters, it is difficult to represent them (impossible, with variation selectors in some environments). But it is reasonable for users of the standard to be able to cite characters visibly using the conventions of the standard. So it makes sense to encode visible glyphs for them, and to put the block in the “specialty” Plane 14 they are “out of the way”. In fact having these glyphs in a formal part of the standard will help editors of the standard now and in future.

Here is a breakdown of the number of dashed boxes in the various blocks in which they occur:

034	C0 Controls and Basic Latin	001	Halfwidth and Fullwidth Characters
034	C1 Controls and Latin-1 Supplement	003	Specials
001	Combining Diacritical Marks	001	Kharoshthi
008	Arabic	003	Brahmi
001	Syriac	002	Kaithi
001	Arabic Extended-A	001	Chakma
002	Kannada	002	Sharada
001	Malayalam	002	Newa
001	Tibetan	003	Dives Akuru
001	Myanmar	004	Zanabazar Square
002	Hangul Jamo	007	Soyombo
001	Ogham	002	Masaram Gondi
003	Khmer	001	Gunjala Gondi
005	Mongolian	038	Egyptian Hieroglyph Format Controls
001	Tai Tham	004	Miao
001	Sundanese	001	Ideographic Symbols and Punctuation
002	Vedic Extensions	001	Duployan
041	General Punctuation	004	Shorthand Format Controls
001	Tifinagh	009	Musical Symbols
002	Supplemental Punctuation	020	Sutton Signwriting
002	CJK Symbols and Punctuation	026	Regional Indicator Symbols
001	Hangul Compatibility Jamo	004	Supplemental Symbols and Pictographs
001	Meetei Mayek Extensions	240	Variation Selectors Supplement
016	Variation Selectors	002	Specials
001	Arabic Presentation Forms-B		

2. Repertoire. The code charts currently use the same glyph for a number of characters. This proposal recommends a unique glyph and character for each code-chart cell which contains a dashed box. For this reason I proposed unique glyphs for each. Here are two examples of options available for two of these examples.

2.1. Options for viramas. There are other virama characters in the repertoire (like KHMER SIGN COENG) but for the purposes of discussion I have only extracted the ones named VIRAMA. I prefer the first option. The first suggestion recommends that the current glyphs for these be made unique for each script both in this block and in the code charts.

E1053		DASHED BOX FOR MYANMAR SIGN VIRAMA → 1039 myanmar sign virama
E105F		DASHED BOX FOR TAI THAM SIGN SAKOT → 1A60 tai tham sign sakot
E1059		DASHED BOX FOR KHMER SIGN COENG → 17F2 khmer sign coeng
E1060		DASHED BOX FOR SUNDANESE SIGN VIRAMA → 1BAB sundanese sign virama
E1093		DASHED BOX FOR MEETEI MAYEK VIRAMA → AAF6 meetei mayek virama
E10A9		DASHED BOX FOR KHAROSHTHI VIRAMA → 10A3F kharoshthi virama
E10AF		DASHED BOX FOR CHAKMA VIRAMA → 11133 chakma virama
E10B4		DASHED BOX FOR DIVES AKURU VIRAMA → 1193E dives akuru virama
E10B8		DASHED BOX FOR ZANABAZAR SQUARE SUBJOINER → 11A47 zanabazar square subjoiner
E10C1		DASHED BOX FOR SOYOMBO SUBJOINER → 11A99 soyombo subjoiner
E10C3		DASHED BOX FOR MASARAM GONDI VIRAMA → 11D45 masaram gondi virama
E10C4		DASHED BOX FOR GUNJALA GONDI VIRAMA → 11D97 gunjala gondi virama

The second option would be to have one glyph for all the viramas in the charts, and only one character in the Dashed Boxes block.

E1053		DASHED BOX FOR VIRAMA → 1039 myanmar sign virama → 17F2 khmer sign coeng → 1A60 tai tham sign sakot → 1BAB sundanese sign virama → AAF6 meetei mayek virama → 10A3F kharoshthi virama → 11133 chakma virama → 1193E dives akuru virama → 11A47 zanabazar square subjoiner → 11A99 soyombo subjoiner → 11D45 masaram gondi virama → 11D97 gunjala gondi virama
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2.2. Options for XXX.

I do not prefer the second option.

E1022	^{xxx} ₁	DASHED BOX FOR XXX-1 → 0080 ^{xxx} ₁ xxx-1
E1023	^{xxx} ₂	DASHED BOX FOR XXX-2 → 0081 ^{xxx} ₂ xxx-2
E103B	^{xxx} ₃	DASHED BOX FOR XXX-3 → 0099 ^{xxx} ₃ xxx-3
E1022	^{xxx}	DASHED BOX FOR XXX → 0080 ^{xxx} xxx-1 → 0081 ^{xxx} xxx-2 → 0099 ^{xxx} xxx-3

3. Maintenance. The right way to maintain this block, when new scripts or characters are added which have characters displayed with dashed boxes, is to add the new characters to the bucket after the final ballot has closed on the characters they will represent. The delay would be one publication cycle, which is not unreasonable.

4. Character names and glyphs.

The character names append DASHED BOX FOR in front of the UCS character name, or, in the case of some of the ASCII and Latin-1 controls, their aliases. Glyphs derive from the code-chart glyphs, though in the attached code table it can be seen that some identical glyphs have been differentiated by script (chiefly viramas); here they are coloured yellow.

5. Unicode Character Properties.

```
E1000;DASHED BOX FOR NULL;So;0;ON;;;;;N;;;;;  
..  
E12FF;SYMBOL FOR NONCHARACTER;So;0;ON;;;;;N;;;;;
```

6. Figures.

1.1 Glyph change. Where a glyph has been changed to a new glyph, a VARIATION SELECTOR can be used after the encoded character to get the font to display the old glyph.

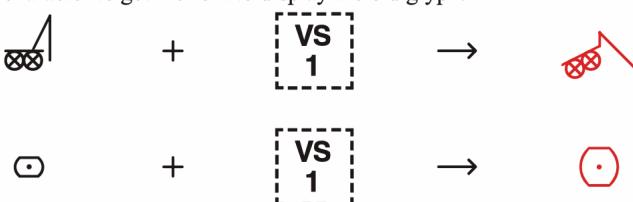
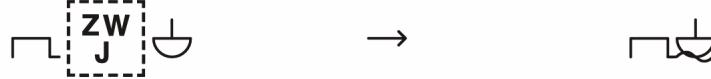


Figure 1. Discussion about the use of Variation Selectors to force the plain-text display of normative glyph shapes in Blissymbolics. Here a glyph for VS1 is given using the Private Use Area, but this is important semantic content and users of the standard should be able to interchange such content in a standardized way.

1.3 Sequence replacement where the replaced character is not an encoded Unicode character. Few people may need to use these forms, but the use of either the ZERO-WIDTH JOINER or an Opentype feature are ways of dealing with them. I will investigate the best way to do it with my Unicode colleagues. The alternative to this kind of representation is to encode the older forms as characters. An example of an “OLD” character that was published but has long remained in the Unicode drafts is PIER. For that, and other characters in this document, the choice is, (1) Do we encode them as glyphs for special sequences:



Or (2) Do we encode the precomposed and older characters alongside one another:

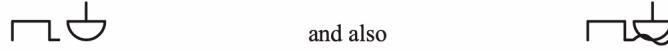


Figure 2. Discussion about the potential use of ZERO-WIDTH JOINER to force the plain-text display of normative glyph shapes in Blissymbolics. This kind of educational discussion and use of symbols would be commonplace in the field of Blissymbolics and Alternative and Augmentative Communication. In this case the use of zwj is accepted and mandated, which means that being able to discuss the character interchangeably is a requirement of this user community. It is obvious that there is general benefit to the encoding of these characters.

Table 23-2. Letter Spacing

Type	Justification Examples	Comment
Memory	the ISP® Charts	The is inserted to allow line break after ®
Display 1	the ISP® Charts	Without letter spacing
Display 2	the ISP® Charts	Increased letter spacing
Display 3	the ISP® Charts	“Thai-style” letter spacing
Display 4	the ISP® Charts	incorrectly inhibiting letter spacing (after ®)

Figure 3. Table from the Unicode core specification using the proposed U+E106E DASHED BOX FOR ZERO WIDTH SPACE.

In *Figure 23-1*, the insertion of the ZWNJ overrides the normal cursive joining of *sad* and *lam*.

Figure 23-1. Prevention of Joining

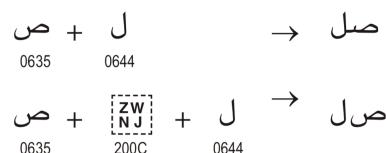


Figure 4. Table from the Unicode core specification using the proposed U+E106F DASHED BOX FOR ZERO WIDTH NON-JOINER.

In *Figure 23-2*, the normal display of *ghain* without ZWJ before or after it uses the nominal (isolated) glyph form. When preceded and followed by ZWJ characters, however, the *ghain* is rendered with its medial form glyph in isolation.

Figure 23-2. Exhibition of Joining Glyphs in Isolation

ጀ	→ ጀ					
063A						
[ZWJ] 200D	+	ጀ	+	[ZWJ] 200D	→	ጀ
		063A				

Figure 5. Table from the Unicode core specification using the proposed [ZWJ] U+E106F DASHED BOX FOR ZERO WIDTH NON-JOINER and [ZJ] U+E1070 DASHED BOX FOR ZERO WIDTH JOINER.

Figure 23-4. Annotation Characters

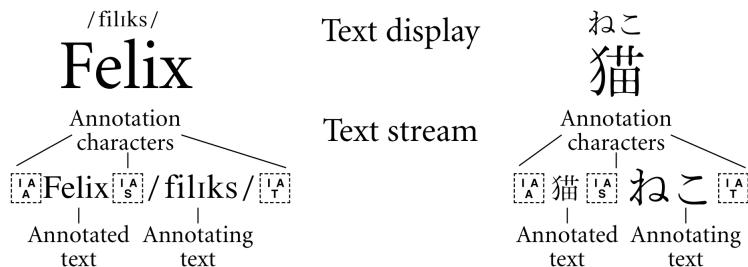


Figure 6. Table from the Unicode core specification using the proposed [IA] U+E10A6 DASHED BOX FOR INTERLINEAR ANNOTATION ANCHOR, [IS] U+E10A7 DASHED BOX FOR INTERLINEAR ANNOTATION SEPARATOR, and [IT] U+E10A8 DASHED BOX FOR INTERLINEAR ANNOTATION TERMINATOR.

Reserved Characters. Character codes that are marked “<reserved>” are unassigned and reserved for future encoding. Reserved codes are indicated by a glyph. To ensure readability, many instances of reserved characters have been suppressed from the names list. Reserved codes may also have cross references to assigned characters located elsewhere.

2073 <reserved>
→ 00B3³ superscript three

Noncharacters. Character codes that are marked “<not a character>” refer to noncharacters. They are designated code points that will never be assigned to a character. These codes are indicated by a glyph. Noncharacters are shown in the code charts only where they occur together with other characters in the same block. For a complete list of noncharacters, see *Section 23.7, Noncharacters*.

FFFF <not a character>

Figure 7. Text from the Unicode core specification using the proposed U+E12FE SYMBOL FOR RESERVED CHARACTER and U+E12FF SYMBOL FOR NONCHARACTER.

2011  NON-BREAKING HYPHEN
→ 002D - hyphen-minus
→ 00AD  soft hyphen
≈ <noBreak> 2010 -

0D4E  MALAYALAM LETTER DOT REPH
• not used in reformed modern Malayalam orthography

The dashed box convention also applies to the glyphs of combining characters which have no visible display of their own, such as variation selectors (see *Section 23.4, Variation Selectors*).

FE00  VARIATION SELECTOR-1
• these are abbreviated VS1, and so on

Sometimes, the combining status of the character is indicated by including a dotted circle inside the dashed box, for example for *viramas* that are intended to be invisible themselves, but which create the conjunct forms of adjacent consonants.

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

Figure 8. Text from the Unicode core specification using the proposed  U+E1073 DASHED BOX FOR NON-BREAKING HYPHEN,  U+E1051 DASHED BOX FOR MALAYALAM DOT REPH,  U+E1094 DASHED BOX FOR VARIATION SELECTOR-1, and  U+E1059 DASHED BOX FOR KHMER SIGN COENG.

A. Administrative

1. Title

Proposal to encode dashed-box symbols in Plane 14 of the UCS

2. Requester's name

Michael Everson

3. Requester type (Member body/Liaison/Individual contribution)

Individual contribution.

4. Submission date

2023-06-23

5. Requester's reference (if applicable)

6. Choose one of the following:

6a. This is a complete proposal

Yes.

6b. More information will be provided later

No.

B. Technical -- General

1. Choose one of the following:

1a. This proposal is for a new script (set of characters)

No.

Proposed name of script

1b. The proposal is for addition of character(s) to an existing block

Yes.

1b. Name of the existing block

Dashed Boxes.

2. Number of characters in proposal

545

3. Proposed category (see section II, Character Categories)

Category A.

4a. Is a repertoire including character names provided?

Yes.

4b. If YES, are the names in accordance with the character naming guidelines in Annex L of ISO/IEC 10646-1: 2000?

Yes.

4c. Are the character shapes attached in a legible form suitable for review?

Yes.

5a. Who will provide the appropriate computerized font (ordered preference: True Type, or PostScript format) for publishing the standard?

Michael Everson.

5b. If available now, identify source(s) for the font (include address, e-mail, ftp-site, etc.) and indicate the tools used:

Michael Everson, Fontographer.

6a. Are references (to other character sets, dictionaries, descriptive texts etc.) provided?

Yes.

6b. Are published examples of use (such as samples from newspapers, magazines, or other sources) of proposed characters attached?

Yes.

7. Does the proposal address other aspects of character data processing (if applicable) such as input, presentation, sorting, searching, indexing, transliteration etc. (if yes please enclose information)?

No.

8. Submitters are invited to provide any additional information about Properties of the proposed Character(s) or Script that will assist in correct understanding of and correct linguistic processing of the proposed character(s) or script. Examples of such properties are: Casing information, Numeric information, Currency information, Display behaviour information such as line breaks, widths etc., Combining behaviour, Spacing behaviour, Directional behaviour, Default Collation behaviour, relevance in Mark Up contexts, Compatibility equivalence and other Unicode normalization related information. See the Unicode standard at <http://www.unicode.org> for such information on other scripts. Also see Unicode Character Database <http://www.unicode.org/Public/UNIDATA/> UnicodeCharacterDatabase.html and associated Unicode Technical Reports for information needed for consideration by the Unicode Technical Committee for inclusion in the Unicode Standard.

The characters should have the same properties as other symbols.

C. Technical -- Justification

1. Has this proposal for addition of character(s) been submitted before? If YES, explain.

Perhaps. It has been mentioned, to my memory.

2a. Has contact been made to members of the user community (for example: National Body, user groups of the script or characters, other experts, etc.)?

Yes.

2b. If YES, with whom?

I am a user, having needed glyphs for variation selectors, joiners, and so on.

- 2c. If YES, available relevant documents
3. Information on the user community for the proposed characters (for example: size, demographics, information technology use, or publishing use) is included?
- Anyone.**
- 4a. The context of use for the proposed characters (type of use; common or rare)
- Not terribly common.**
- 4b. Reference
- 5a. Are the proposed characters in current use by the user community?
- Yes.**
- 5b. If YES, where?
- In printed publications, discussions of writing systems or other features of the characters in the standard.**
- 6a. After giving due considerations to the principles in Principles and Procedures document (a WG 2 standing document) must the proposed characters be entirely in the BMP?
- No.**
- 6b. If YES, is a rationale provided?
- 6c. If YES, reference
7. Should the proposed characters be kept together in a contiguous range (rather than being scattered)?
- 8a. Can any of the proposed characters be considered a presentation form of an existing character or character sequence?
- No.**
- 8b. If YES, is a rationale for its inclusion provided?
- 8c. If YES, reference
- 9a. Can any of the proposed characters be encoded using a composed character sequence of either existing characters or other proposed characters?
- No.**
- 9b. If YES, is a rationale for its inclusion provided?
- 9c. If YES, reference
- 10a. Can any of the proposed character(s) be considered to be similar (in appearance or function) to an existing character?
- No.**
- 10b. If YES, is a rationale for its inclusion provided?
- 10c. If YES, reference
- 11a. Does the proposal include use of combining characters and/or use of composite sequences (see clauses 4.12 and 4.14 in ISO/IEC 10646-1: 2000)?
- No.**
- 11b. If YES, is a rationale for such use provided?
- 11c. If YES, reference
- 12a. Is a list of composite sequences and their corresponding glyph images (graphic symbols) provided?
- No.**
- 12b. If YES, reference
- 13a. Does the proposal contain characters with any special properties such as control function or similar semantics?
- No.**
- 13b. If YES, describe in detail (include attachment if necessary)
- 14a. Does the proposal contain any Ideographic compatibility character(s)?
- No.**
- 14b. If YES, is the equivalent corresponding unified ideographic character(s) identified?

	E100	E101	E102	E103	E104	E105	E106	E107	E108	E109	E10A	E10B	E10C	E10D	E10E	E10F
0	NUL	DLE	SP	SS2	PM	OO	SUND	ZWJ	,	ID SP	VS 13	VS 14	VS 15	GONM	DT LS	
1	E1000	E1010	E1020	E1030	E1040	E1050	E1060	E1070	E1080	E1090	E10A0	E10B0	E10C0	E10D0	E10E0	E10F0
2	SOH	DC1	DEL	SS3	APC	•	X	LRM	+	≈	VS 14	B	SOYO	→	☒	→
3	E1001	E1011	E1021	E1031	E1041	E1051	E1061	E1071	E1081	E1091	E10A1	E10B1	E10C1	E10D1	E10E1	E10F1
4	STX	DC2	XXX 1	DCS	NB SP	▼ NB	W	RLM		H F	VS 15	X	GONM	↔	☒	↔
5	E1002	E1012	E1022	E1032	E1042	E1052	E1062	E1072		E1092	E10A2	E10B2	E10C2	E10D2	E10E2	E10F2
6	ETX	DC3	XXX 2	PU1	SHY	MYMR	NQ SP	NB	LRI	MTEI	VS 16	ε	∞	↔	■	↓
7	E1003	E1013	E1023	E1033	E1043	E1053	E1063	E1073	E1083	E1093	E10A3	E10B3	E10C3	E10D3	E10E3	E10F3
8	EOT	DC4	BPH	PU2	CGJ	HC F	MQ SP	L SEP	R LI	VS 1	ZWN BSP	DIAK	GONG	↔	☒	↑
9	E1004	E1014	E1024	E1034	E1044	E1054	E1064	E1074	E1084	E1094	E10A4	E10B4	E10C4	E10D4	E10E4	E10F4
A	ENQ	NAK	NBH	STS		H J F	EN SP	P SEP	FSI	VS 2	HW HF	3	•	↔	■	NULL NOTE HEAD
B	E1005	E1015	E1025	E1035	E1045	E1055	E1065	E1075	E1085	E1095	E10A5	E10B5	E10C5	E10D5	E10E5	E10F5
C	ENQ	NAK	NBH	STS		H J F	EN SP	P SEP	FSI	VS 2	HW HF	3	•	↔	■	NULL NOTE HEAD
D	ACK	SYN	IND	CCH		OGAM SP	EM SP	L RE	PDI	VS 3	TA A	?	*	FB	■	BEGIN BEAM
E	E1006	E1016	E1026	E1036	E1046	E1056	E1066	E1076	E1086	E1096	E10A6	E10B6	E10C6	E10D6	E10E6	E10F6
F	BEL	ETB	NEL	MW	q	KIV AQ	3/M SP	R LE	I SS	VS 4	I A S	T	□	HB	■	END BEAM
G	E1007	E1017	E1027	E1037	E1047	E1057	E1067	E1077	E1087	E1097	E10A7	E10B7	E10C7	E10D7	E10E7	E10F7
H	BS	CAN	SSA	SPA		KIV AA	4/M SP	PDF	A SS	VS 5	I A T	ZANB	□	■	■	BEGIN TIE
I	E1008	E1018	E1028	E1038	E1048	E1058	E1068	E1078	E1088	E1098	E10A8	E10B8	E10C8	E10D8	E10E8	E10F8
J	HT	EM	ESA	EPA		KHMR	6/M SP	L RO	I AFS	VS 6	KHAR	□	□	□	□	END TIE
K	E1009	E1019	E1029	E1039	E1049	E1059	E1069	E1079	E1089	E1099	E10A9	E10B9	E10C9	E10D9	E10E9	E10F9
L	LF	SUB	HTS	SOS		F V S1	F SP	R LO	A AFS	VS 7	X	Z	□	■	■	BEGIN SLUR
M	E100A	E101A	E102A	E103A	E104A	E105A	E106A	E107A	E108A	E109A	E10AA	E10BA	E10CA	E10DA	E10EA	E10FA
N	VT	ESC	HTJ	XXX 3	ALM	F V S2	P SP	NNB SP	N A DS	VS 8	☒	☒	+	○	○	END SLUR
O	E100B	E101B	E102B	E103B	E104B	E105B	E106B	E107B	E108B	E109B	E10AB	E10BB	E10CB	E10DB	E10EB	E10FB
P	FF	FS	VTS	SCI		F V S3	T H SP	MM SP	N O DS	VS 9	BNJ	3	□	○	○	BEGIN PHR.
Q	E100C	E101C	E102C	E103C	E104C	E105C	E106C	E107C	E108C	E109C	E10AC	E10BC	E10CC	E10DC	E10EC	E10FC
R	CR	GS	PLD	CSI	●●	M V S	H SP	W J	...	VS 10	6	•)	□	○	END PHR.
S	E100D	E101D	E102D	E103D	E104D	E105D	E106D	E107D	E108D	E109D	E10AD	E10BD	E10CD	E10DD	E10ED	E10FD
T	SO	RS	PLU	ST	Δ	F V S4	ZW SP	f()	2M	VS 11	6	•	□	■	○	SW F2
U	E100E	E101E	E102E	E103E	E104E	E105E	E106E	E107E	E108E	E109E	E10AE	E10BE	E10CE	E10DE	E10EE	E10FE
V	SI	US	RI	OSC	X	LANA	ZW NJ	X	3M	VS 12	CAKM	7	□	□	KITS F	SW F3
W	E100F	E101F	E102F	E103F	E104F	E105F	E106F	E107F	E108F	E109F	E10AF	E10BF	E10CF	E10DF	E10EF	E10FF

E110 E111 E112 E113 E114 E115 E116 E117 E118 E119 E11A E11B E11C E11D E11E E11F

0	SW F4	SW R15	O	VS 17	VS 33	VS 49	VS 65	VS 81	VS 97	VS 113	VS 129	VS 145	VS 161	VS 177	VS 193	VS 209
	E1100	E1110	E1120	E1130	E1140	E1150	E1160	E1170	E1180	E1190	E11A0	E11B0	E11C0	E11D0	E11E0	E11F0
1	SW F5	SW R16	P	VS 18	VS 34	VS 50	VS 66	VS 82	VS 98	VS 114	VS 130	VS 146	VS 162	VS 178	VS 194	VS 210
	E1101	E1111	E1121	E1131	E1141	E1151	E1161	E1171	E1181	E1191	E11A1	E11B1	E11C1	E11D1	E11E1	E11F1
2	SW F6	A	Q	VS 19	VS 35	VS 51	VS 67	VS 83	VS 99	VS 115	VS 131	VS 147	VS 163	VS 179	VS 195	VS 211
	E1102	E1112	E1122	E1132	E1142	E1152	E1162	E1172	E1182	E1192	E11A2	E11B2	E11C2	E11D2	E11E2	E11F2
3	SW R2	B	R	VS 20	VS 36	VS 52	VS 68	VS 84	VS 100	VS 116	VS 132	VS 148	VS 164	VS 180	VS 196	VS 212
	E1103	E1113	E1123	E1133	E1143	E1153	E1163	E1173	E1183	E1193	E11A3	E11B3	E11C3	E11D3	E11E3	E11F3
4	SW R3	C	S	VS 21	VS 37	VS 53	VS 69	VS 85	VS 101	VS 117	VS 133	VS 149	VS 165	VS 181	VS 197	VS 213
	E1104	E1114	E1124	E1134	E1144	E1154	E1164	E1174	E1184	E1194	E11A4	E11B4	E11C4	E11D4	E11E4	E11F4
5	SW R4	D	T	VS 22	VS 38	VS 54	VS 70	VS 86	VS 102	VS 118	VS 134	VS 150	VS 166	VS 182	VS 198	VS 214
	E1105	E1115	E1125	E1135	E1145	E1155	E1165	E1175	E1185	E1195	E11A5	E11B5	E11C5	E11D5	E11E5	E11F5
6	SW R5	E	U	VS 23	VS 39	VS 55	VS 71	VS 87	VS 103	VS 119	VS 135	VS 151	VS 167	VS 183	VS 199	VS 215
	E1106	E1116	E1126	E1136	E1146	E1156	E1166	E1176	E1186	E1196	E11A6	E11B6	E11C6	E11D6	E11E6	E11F6
7	SW R6	F	V	VS 24	VS 40	VS 56	VS 72	VS 88	VS 104	VS 120	VS 136	VS 152	VS 168	VS 184	VS 200	VS 216
	E1107	E1117	E1127	E1137	E1147	E1157	E1167	E1177	E1187	E1197	E11A7	E11B7	E11C7	E11D7	E11E7	E11F7
8	SW R7	G	W	VS 25	VS 41	VS 57	VS 73	VS 89	VS 105	VS 121	VS 137	VS 153	VS 169	VS 185	VS 201	VS 217
	E1108	E1118	E1128	E1138	E1148	E1158	E1168	E1178	E1188	E1198	E11A8	E11B8	E11C8	E11D8	E11E8	E11F8
9	SW R8	H	X	VS 26	VS 42	VS 58	VS 74	VS 90	VS 106	VS 122	VS 138	VS 154	VS 170	VS 186	VS 202	VS 218
	E1109	E1119	E1129	E1139	E1149	E1159	E1169	E1179	E1189	E1199	E11A9	E11B9	E11C9	E11D9	E11E9	E11F9
A	SW R9	I	Y	VS 27	VS 43	VS 59	VS 75	VS 91	VS 107	VS 123	VS 139	VS 155	VS 171	VS 187	VS 203	VS 219
	E110A	E111A	E112A	E113A	E114A	E115A	E116A	E117A	E118A	E119A	E11AA	E11BA	E11CA	E11DA	E11EA	E11FA
B	SW R10	J	Z	VS 28	VS 44	VS 60	VS 76	VS 92	VS 108	VS 124	VS 140	VS 156	VS 172	VS 188	VS 204	VS 220
	E110B	E111B	E112B	E113B	E114B	E115B	E116B	E117B	E118B	E119B	E11AB	E11BB	E11CB	E11DB	E11EB	E11FB
C	SW R11	K		VS 29	VS 45	VS 61	VS 77	VS 93	VS 109	VS 125	VS 141	VS 157	VS 173	VS 189	VS 205	VS 221
	E110C	E111C	E112C	E113C	E114C	E115C	E116C	E117C	E118C	E119C	E11AC	E11BC	E11CC	E11DC	E11EC	E11FC
D	SW R12	L		VS 30	VS 46	VS 62	VS 78	VS 94	VS 110	VS 126	VS 142	VS 158	VS 174	VS 190	VS 206	VS 222
	E110D	E111D	E112D	E113D	E114D	E115D	E116D	E117D	E118D	E119D	E11AD	E11BD	E11CD	E11DD	E11ED	E11FD
E	SW R13	M		VS 31	VS 47	VS 63	VS 79	VS 95	VS 111	VS 127	VS 143	VS 159	VS 175	VS 191	VS 207	VS 223
	E110E	E111E	E112E	E113E	E114E	E115E	E116E	E117E	E118E	E119E	E11AE	E11BE	E11CE	E11DE	E11EE	E11FE
F	SW R14	N		VS 32	VS 48	VS 64	VS 80	VS 96	VS 112	VS 128	VS 144	VS 160	VS 176	VS 192	VS 208	VS 224
	E110F	E111F	E112F	E113F	E114F	E115F	E116F	E117F	E118F	E119F	E11AF	E11BF	E11CF	E11DF	E11EF	E11FF

	E120	E121	E122	E123	E124	E125	E126	E127	E128	E129	E12A	E12B	E12C	E12D	E12E	E12F
0	VS 225	VS 241														
1	VS 226	VS 242														
2	VS 227	VS 243														
3	VS 228	VS 244														
4	VS 229	VS 245														
5	VS 230	VS 246														
6	VS 231	VS 247														
7	VS 232	VS 248														
8	VS 233	VS 249														
9	VS 234	VS 250														
A	VS 235	VS 251														
B	VS 236	VS 252														
C	VS 237	VS 253														
D	VS 238	VS 254														
E	VS 239	VS 255														E12FE
F	VS 240	VS 256														E12FF

Glyphs here represent dashed-boxed characters in the standard which may not be displayable because they are invisible or are control characters of one kind or another. The characters in this block permit users to display these in text, for instance, in discussions of them. These are spacing characters.

C0 Controls and Basic Latin

E1000	NUL	DASHED BOX FOR NULL	→ 0000 null
E1001	SOH	DASHED BOX FOR START OF HEADING	X 0001 start of heading
E1002	STX	DASHED BOX FOR START OF TEXT	→ 0002 start of text
E1003	ETX	DASHED BOX FOR END OF TEXT	→ 0003 start of text
E1004	EOT	DASHED BOX FOR END OF TRANSMISSION	→ 0004 start of text
E1005	ENQ	DASHED BOX FOR ENQUIRY	→ 0005 enquiry
E1006	ACK	DASHED BOX FOR ACKNOWLEDGE	→ 0006 acknowledge
E1007	BEL	DASHED BOX FOR BELL	→ 0007 bell
E1008	BS	DASHED BOX FOR BACKSPACE	→ 0008 backspace
E1009	HT	DASHED BOX FOR CHARACTER TABULATION	→ 0009 tabulation
E100A	LF	DASHED BOX FOR LINE FEED LF	→ 000A line feed
E100B	VT	DASHED BOX FOR LINE TABULATION	→ 000B line tabulation
E100C	FF	DASHED BOX FOR FORM FEED FF	→ 000C form feed
E100D	CR	DASHED BOX FOR CARRIAGE RETURN CR	→ 000D enquiry
E100E	SO	DASHED BOX FOR SHIFT OUT	→ 000E shift out
E100F	SI	DASHED BOX FOR SHIFT IN	→ 000F shift in
E1010	DLE	DASHED BOX FOR DATA LINK ESCAPE	→ 0010 enquiry
E1011	DC1	DASHED BOX FOR DEVICE CONTROL ONE	→ 0010 enquiry
E1012	DC2	DASHED BOX FOR DEVICE CONTROL TWO	→ 0011 enquiry
E1013	DC3	DASHED BOX FOR DEVICE CONTROL THREE	→ 0012 enquiry
E1014	DC4	DASHED BOX FOR DEVICE CONTROL FOUR	→ 0013 enquiry
E1015	NAK	DASHED BOX FOR NEGATIVE ACKNOWLEDGE	→ 0014 enquiry
E1016	SYN	DASHED BOX FOR SYNCHRONOUS IDLE	→ 0015 enquiry
E1017	ETB	DASHED BOX FOR END OF TRANSMISSION BLOCK	→ 0016 enquiry
E1018	CAN	DASHED BOX FOR CANCEL	→ 0017 enquiry
E1019	EM	DASHED BOX FOR END OF MEDIUM	→ 0018 enquiry
E101A	SUB	DASHED BOX FOR SUBSTITUTE	→ 0019 enquiry
			→ FFFD replacement character
E101B	ESC	DASHED BOX FOR ESCAPE	→ 001A enquiry

E101C	FS	DASHED BOX FOR INFORMATION SEPARATOR FOUR	→ 001B enquiry
E101D	GS	DASHED BOX FOR INFORMATION SEPARATOR THREE	→ 001C enquiry
E101E	RS	DASHED BOX FOR INFORMATION SEPARATOR TWO	→ 001D enquiry
E101F	US	DASHED BOX FOR INFORMATION SEPARATOR ONE	→ 001E enquiry
E1020	SP	DASHED BOX FOR SPACE	→ 0020 space
E1021	DEL	DASHED BOX FOR DELETE	→ 007F delete

C1 Controls and Latin-1 Supplement (Latin-1 Supplement)

E1022	XXX-1	DASHED BOX FOR XXX-1	→ 0080 XXX-1
E1023	XXX-2	DASHED BOX FOR XXX-2	→ 0081 XXX-2
E1024	BPH	DASHED BOX FOR BREAK PERMITTED HERE	→ 0082 break permitted here
E1025	NBH	DASHED BOX FOR NO BREAK HERE	→ 0083 no break here
E1026	IND	DASHED BOX FOR INDEX	→ 0084 index
E1027	NEL	DASHED BOX FOR NEXT LINE	→ 0085 next line
E1028	SSA	DASHED BOX FOR START OF SELECTED AREA	→ 0086 start of selected area
E1029	ESA	DASHED BOX FOR END OF SELECTED AREA	→ 0087 end of selected area
E102A	HTS	DASHED BOX FOR CHARACTER TABULATION SET	→ 0088 character tabulation set
E102B	HTJ	DASHED BOX FOR CHARACTER TABULATION WITH JUSTIFICATION	→ 0089 character tabulation with justification
E102C	VTS	DASHED BOX FOR LINE TABULATION SET	→ 008A line tabulation set
E102D	PLD	DASHED BOX FOR PARTIAL LINE FORWARD	→ 008B partial line forward
E102E	PLU	DASHED BOX FOR PARTIAL LINE BACKWARD	→ 008C partial line backward
E102F	RI	DASHED BOX FOR LINE FEED	→ 008D reverse line feed
E1030	SS2	DASHED BOX FOR SHIFT TWO	→ 008E single shift two
E1031	SS3	DASHED BOX FOR SHIFT THREE	→ 008F single shift three
E1032	DCS	DASHED BOX FOR CONTROL STRING	→ 0090 device control string
E1033	PUI	DASHED BOX FOR USE ONE	→ 0091 private use one
E1034	PU2	DASHED BOX FOR USE TO	→ 0092 private use two
E1035	STS	DASHED BOX FOR SET TRANSMIT STATE	→ 0093 set transmit state
E1036	CCH	DASHED BOX FOR CANCEL CHARACTER	→ 0094 cancel character
E1037	MW	DASHED BOX FOR MESSAGE WAITING	→ 0095 message waiting
E1038	SPA	DASHED BOX FOR START OF GUARDED AREA	→ 0096 start of guarded area

E1039		DASHED BOX FOR END OF GUARDED AREA → 0097 end of guarded area
E103A		DASHED BOX FOR START OF STRING → 0098 start of string
E103B		DASHED BOX FOR XXX-3 → 0099 xxx-3
E103C		DASHED BOX FOR SINGLE CHARACTER INTRODUCER → 009A single character introducer
E103D		DASHED BOX FOR CONTROL SEQUENCE INTRODUCER → 009B control sequence introducer
E103E		DASHED BOX FOR TERMINATOR → 009C string terminator
E103F		DASHED BOX FOR OPERATING SYSTEM COMMAND → 009D operating system command
E1040		DASHED BOX FOR PRIVACY MESSAGE → 009E privacy message
E1041		DASHED BOX FOR APPLICATION PROGRAM COMMAND → 009F application program command
E1042		DASHED BOX FOR NO-BREAK SPACE → 00A0 no-break space
E1043		DASHED BOX FOR SOFT HYPHEN → 00AD soft hyphen

Combining Diacritical Marks

E1044		DASHED BOX FOR COMBINING GRAPHEME JOINER → 034F combining grapheme joiner
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Arabic

E1045		DASHED BOX FOR ARABIC NUMBER SIGN → 0600 arabic number sign
E1046		DASHED BOX FOR ARABIC SIGN SANAH → 0601 arabic sign sanah
E1047		DASHED BOX FOR ARABIC FOOTNOTE MARKER → 0602 arabic footnote marker
E1048		DASHED BOX FOR ARABIC SIGN SAFHA → 0603 arabic sign safha
E1049		DASHED BOX FOR ARABIC SIGN SAMVAT → 0604 arabic sign samvat
E104A		DASHED BOX FOR ARABIC NUMBER MARK ABOVE → 0605 arabic number mark above
E104B		DASHED BOX FOR ARABIC LETTER MARK → 061C arabic letter mark
E104C		DASHED BOX FOR ARABIC END OF AYAH → 06DD arabic end of ayah

Syriac

E104D		DASHED BOX FOR SYRIAC ABBREVIATION MARK → 070F syriac abbreviation mark
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Arabic Extended-A

E104E		DASHED BOX FOR ARABIC DISPUTED END OF AYAH → 08E2 arabic disputed end of ayah
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Kannada

E104F		DASHED BOX FOR KANNADA SIGN JIHVAMULIYA → 0CF1 kannada sign jihvamuliya
E1050		DASHED BOX FOR KANNADA SIGN UPADHMANIYA → 0CF2 kannada sign upadhmaniya

Malayalam

E1051		DASHED BOX FOR MALAYALAM LETTER DOT REPH → 0D4E malayalam letter dot reph
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Tibetan

E1052		DASHED BOX FOR TIBETAN MARK DELIMITER TSHEG BSTAR → 0F0C tibetan mark delimiter tsheg bstar
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Myanmar

E1053		DASHED BOX FOR MYANMAR SIGN VIRAMA → 1039 myanmar sign virama
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Hangul Jamo

E1054		DASHED BOX FOR HANGUL CHOSEONG FILLER → 115F hangul choseong filler
E1055		DASHED BOX FOR HANGUL JUNGSEONG FILLER → 1160 hangul jungseong filler

Ogham

E1056		DASHED BOX FOR OGHAM SPACE MARK → 1680 ogham space mark
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Khmer

E1057		DASHED BOX FOR KHMER VOWEL INHERENT AQ → 17B4 khmer vowel inherent aq
E1058		DASHED BOX FOR KHMER VOWEL INHERENT AA → 17B5 khmer vowel inherent aa
E1059		DASHED BOX FOR KHMER SIGN COENG → 17F2 khmer sign coeng

Mongolian

E105A		DASHED BOX FOR MONGOLIAN FREE VARIATION SELECTOR ONE → 180B mongolian free variation selector one
E105B		DASHED BOX FOR MONGOLIAN FREE VARIATION SELECTOR TWO → 180C mongolian free variation selector two
E105C		DASHED BOX FOR MONGOLIAN FREE VARIATION SELECTOR THREE → 180D mongolian free variation selector three
E105D		DASHED BOX FOR MONGOLIAN VOWEL SEPARATOR → 180E mongolian vowel separator
E105E		DASHED BOX FOR MONGOLIAN FREE VARIATION SELECTOR FOUR → 180F mongolian free variation selector four

Tai Tham

E105F		DASHED BOX FOR TAI THAM SIGN SAKOT → 1A60 tai tham sign sakot
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Sundanese

E1060		DASHED BOX FOR SUNDANESE SIGN VIRAMA → 1BAB sundanese sign virama
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Vedic Extensions

E1061		DASHED BOX FOR VEDIC SIGN JIHVAMULIYA → 1CF5 vedic sign jihvamuliya
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E1062		DASHED BOX FOR VEDIC SIGN UPADHMANIYA → 1CF6
General Punctuation		
E1063		DASHED BOX FOR EN QUAD → 2000
E1064		DASHED BOX FOR EM QUAD → 2001
E1065		DASHED BOX FOR EN SPACE → 2002
E1066		DASHED BOX FOR EM SPACE → 2003
E1067		DASHED BOX FOR THREE-PER-EM SPACE → 2004
E1068		DASHED BOX FOR FOUR-PER-EM SPACE → 2005
E1069		DASHED BOX FOR SIX-PER-EM SPACE → 2006
E106A		DASHED BOX FOR FIGURE SPACE → 2007
E106B		DASHED BOX FOR PUNCTUATION SPACE → 2008
E106C		DASHED BOX FOR THIN SPACE → 2009
E106D		DASHED BOX FOR HAIR SPACE → 200A
E106E		DASHED BOX FOR ZERO WIDTH SPACE → 200B
E106F		DASHED BOX FOR ZERO WIDTH NON-JOINER → 200C
E1070		DASHED BOX FOR ZERO WIDTH JOINER → 200D
E1071		DASHED BOX FOR LEFT-TO-RIGHT MARK → 200E
E1072		DASHED BOX FOR RIGHT-TO-LEFT MARK → 200F
E1073		DASHED BOX FOR NON-BREAKING HYPHEN → 2011
E1074		DASHED BOX FOR LINE SEPARATOR → 2028
E1075		DASHED BOX FOR PARAGRAPH SEPARATOR → 2029
E1076		DASHED BOX FOR LEFT-TO-RIGHT EMBEDDING → 202A
E1077		DASHED BOX FOR RIGHT-TO-LEFT EMBEDDING → 202B
E1078		DASHED BOX FOR POP DIRECTIONAL FORMATTING → 202C
E1079		DASHED BOX FOR LEFT-TO-RIGHT OVERRIDE → 202D
E107A		DASHED BOX FOR RIGHT-TO-LEFT OVERRIDE → 202E
E107B		DASHED BOX FOR NARROW NO-BREAK SPACE → 202F
E107C		DASHED BOX FOR MEDIUM MATHEMATICAL SPACE → 205F
E107D		DASHED BOX FOR WORD JOINER → 2060
E107E		DASHED BOX FOR FUNCTION APPLICATION → 2061
E107F		DASHED BOX FOR INVISIBLE TIMES → 2062
E1080		DASHED BOX FOR INVISIBLE SEPARATOR → 2063

E1081		DASHED BOX FOR INVISIBLE PLUS → 2064
E1082		<reserved>
E1083		DASHED BOX FOR LEFT-TO-RIGHT ISOLATE → 2066
E1084		DASHED BOX FOR RIGHT-TO-LEFT ISOLATE → 2067
E1085		DASHED BOX FOR FIRST STRONG ISOLATE → 2068
E1086		DASHED BOX FOR POP DIRECTIONAL ISOLATE → 2069
E1087		DASHED BOX FOR INHIBIT SYMMETRIC SWAPPING → 206A
E1088		DASHED BOX FOR ACTIVATE SYMMETRIC SWAPPING → 206B
E1089		DASHED BOX FOR INHIBIT ARABIC FORM SHAPING → 206C
E108A		DASHED BOX FOR ACTIVATE ARABIC FORM SHAPING → 206D
E108B		DASHED BOX FOR NATIONAL DIGIT SHAPES → 206E
E108C		DASHED BOX FOR NOMINAL DIGIT SHAPES → 206F

Tifinagh

E108D		DASHED BOX FOR TIFINAGH CONSONANT JOINER → 2D7F
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Supplemental Punctuation

E108E		DASHED BOX FOR TWO-EM DASH → 2E3A
E108F		DASHED BOX FOR THREE-EM DASH → 2E3B

CJK Symbols and Punctuation

E1090		DASHED BOX FOR IDEOGRAPHIC SPACE → 3000
E1091		DASHED BOX FOR IDEOGRAPHIC VARIATION INDICATOR → 303E

Hangul Compatibility Jamo

E1092		DASHED BOX FOR HANGUL FILLER → 3164
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Meetei Mayek Extensions

E1093		DASHED BOX FOR MEETEI MAYEK VIRAMA → AAF6
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Variation Selectors

E1094		DASHED BOX FOR VARIATION SELECTOR-1 → FE00
E1095		DASHED BOX FOR VARIATION SELECTOR-2 → FE01
E1096		DASHED BOX FOR VARIATION SELECTOR-3 → FE10
E1097		DASHED BOX FOR VARIATION SELECTOR-4 → FE11
E1098		DASHED BOX FOR VARIATION SELECTOR-5 → FE12
E1099		DASHED BOX FOR VARIATION SELECTOR-6 → FE05

- E109A DASHED BOX FOR VARIATION SELECTOR-7
→ FE06 variation selector-7
- E109B DASHED BOX FOR VARIATION SELECTOR-8
→ FE07 variation selector-8
- E109C DASHED BOX FOR VARIATION SELECTOR-9
→ FE08 variation selector-9
- E109D DASHED BOX FOR VARIATION SELECTOR-10
→ FE09 variation selector-10
- E109E DASHED BOX FOR VARIATION SELECTOR-11
→ FE0A variation selector-11
- E109F DASHED BOX FOR VARIATION SELECTOR-12
→ FE0B variation selector-12
- E10A0 DASHED BOX FOR VARIATION SELECTOR-13
→ FE0C variation selector-13
- E10A1 DASHED BOX FOR VARIATION SELECTOR-14
→ FE0D variation selector-14
- E10A2 DASHED BOX FOR VARIATION SELECTOR-15
→ FE0E variation selector-15
- E10A3 DASHED BOX FOR VARIATION SELECTOR-16
→ FE0F variation selector-16

Arabic Presentation Forms-B

- E10A4 DASHED BOX FOR ZERO WIDTH NO-BREAK SPACE
→ FEFF zero width no-break space

Halfwidth and Fullwidth Forms

- E10A5 DASHED BOX FOR HALFWIDTH HANGUL FILLER
→ FFA0 halfwidth hangul filler

Specials

- E10A6 DASHED BOX FOR INTERLINEAR ANNOTATION ANCHOR
→ FFF9 interlinear annotation anchor
- E10A7 DASHED BOX FOR INTERLINEAR ANNOTATION SEPARATOR
→ FFFA interlinear annotation separator
- E10A8 DASHED BOX FOR INTERLINEAR ANNOTATION TERMINATOR
→ FFFF interlinear annotation terminator

Kharoshthi

- E10A9 DASHED BOX FOR KHAROSHTHI VIRAMA
→ 10A3F kharoshthi virama

Brahmi

- E10AA DASHED BOX FOR BRAHMI SIGN JIHVAMULIYA
→ 11003 brahmi sign jihvamuliya
- E10AB DASHED BOX FOR BRAHMI SIGN UPADHMANIYA
→ 11004 brahmi sign upadhmaniya
- E10AC DASHED BOX FOR BRAHMI NUMBER JOINER
→ 1107F brahmi number joiner

Kaithi

- E10AD DASHED BOX FOR KAITHI NUMBER SIGN
→ 110BD kaithi number sign
- E10AE DASHED BOX FOR KAITHI NUMBER SIGN ABOVE
→ 110CD kaithi number sign above

Chakma

- E10AF DASHED BOX FOR CHAKMA VIRAMA
→ 11133 chakma virama

Sharada

- E10B0 DASHED BOX FOR SHARADA SIGN JIHVAMULIYA
→ 111C2 sharada sign jihvamuliya
- E10B1 DASHED BOX FOR SHARADA SIGN UPADHMANIYA
→ 111C3 sharada sign upadhmaniya

Newa

- E10B2 DASHED BOX FOR NEWA SIGN JIHVAMULIYA
→ 11460 newa sign jihvamuliya
- E10B3 DASHED BOX FOR NEWA SIGN UPADHMANIYA
→ 11461 newa sign upadhmaniya

Dives Akuru

- E10B4 DASHED BOX FOR DIVES AKURU VIRAMA
→ 1193E dives akuru virama
- E10B5 DASHED BOX FOR DIVES AKURU PREFIXED NASAL SIGN
→ 1193F dives akuru prefixed nasal sign
- E10B6 DASHED BOX FOR DIVES AKURU INITIAL RA
→ 11941 dives akuru initial ra

Zanabazar Square

- E10B7 DASHED BOX FOR ZANABAZAR SQUARE CLUSTER-INITIAL LETTER RA
→ 11A3A zanabazar square cluster-initial letter ra
- E10B8 DASHED BOX FOR ZANABAZAR SQUARE SUBJOINER
→ 11A47 zanabazar square subjoiner
- E10B9 DASHED BOX FOR ZANABAZAR SQUARE CLUSTER-INITIAL LETTER LA
→ 11A48 zanabazar square cluster-initial letter la
- E10BA DASHED BOX FOR ZANABAZAR SQUARE CLUSTER-INITIAL LETTER SA
→ 11A49 zanabazar square cluster-initial letter sa

Soyombo

- E10BB DASHED BOX FOR SOYOMBO SIGN JIHVAMULIYA
→ 11A84 soyombo sign jihvamuliya
- E10BC DASHED BOX FOR SOYOMBO SIGN UPADHMANIYA
→ 11A85 soyombo sign upadhmaniya
- E10BD DASHED BOX FOR SOYOMBO CLUSTER-INITIAL LETTER RA
→ 11A86 soyombo cluster-initial letter ra
- E10BE DASHED BOX FOR SOYOMBO CLUSTER-INITIAL LETTER LA
→ 11A87 soyombo cluster-initial letter la
- E10BF DASHED BOX FOR SOYOMBO CLUSTER-INITIAL LETTER SHA
→ 11A88 soyombo cluster-initial letter sha
- E10C0 DASHED BOX FOR SOYOMBO CLUSTER-INITIAL LETTER SA
→ 11A89 soyombo cluster-initial letter sa
- E10C1 DASHED BOX FOR SOYOMBO SUBJOINER
→ 11A99 soyombo subjoiner

Masaram Gondi

- E10C2 DASHED BOX FOR MASARAM GONDI SIGN HALANTA
→ 11D44 masaram gondi sign halanta
- E10C3 DASHED BOX FOR MASARAM GONDI VIRAMA
→ 11D45 masaram gondi virama

Gunjala Gondi

- E10C4 DASHED BOX FOR GUNJALA GONDI VIRAMA
→ 11D97 gunjala gondi virama

Egyptian Hieroglyph Format Controls

- E10C5 DASHED BOX FOR EGYPTIAN HIEROGLYPH VERTICAL JOINER
→ 13430 egyptian hieroglyph vertical joiner
- E10C6 DASHED BOX FOR EGYPTIAN HIEROGLYPH HORIZONTAL JOINER
→ 13431 egyptian hieroglyph horizontal joiner
- E10C7 DASHED BOX FOR EGYPTIAN HIEROGLYPH INSERT AT TOP START
→ 13432 egyptian hieroglyph insert at top start
- E10C8 DASHED BOX FOR EGYPTIAN HIEROGLYPH INSERT AT BOTTOM START
→ 13433 egyptian hieroglyph insert at bottom start
- E10C9 DASHED BOX FOR EGYPTIAN HIEROGLYPH INSERT AT TOP END
→ 13434 egyptian hieroglyph insert at top end
- E10CA DASHED BOX FOR EGYPTIAN HIEROGLYPH INSERT AT BOTTOM END
→ 13435 egyptian hieroglyph insert at bottom end
- E10CB DASHED BOX FOR EGYPTIAN HIEROGLYPH OVERLAY MIDDLE
→ 13436 egyptian hieroglyph overlay middle
- E10CC DASHED BOX FOR EGYPTIAN HIEROGLYPH BEGIN SEGMENT
→ 13437 egyptian hieroglyph begin segment
- E10CD DASHED BOX FOR EGYPTIAN HIEROGLYPH END SEGMENT
→ 13438 egyptian hieroglyph end segment
- E10CE DASHED BOX FOR EGYPTIAN HIEROGLYPH INSERT AT MIDDLE
→ 13439 egyptian hieroglyph insert at middle
- E10CF DASHED BOX FOR EGYPTIAN HIEROGLYPH INSERT AT TOP
→ 1343A egyptian hieroglyph insert at top
- E10D0 DASHED BOX FOR EGYPTIAN HIEROGLYPH INSERT AT BOTTOM
→ 1343B egyptian hieroglyph insert at bottom
- E10D1 DASHED BOX FOR EGYPTIAN HIEROGLYPH BEGIN ENCLOSURE
→ 1343C egyptian hieroglyph begin enclosure
- E10D2 DASHED BOX FOR EGYPTIAN HIEROGLYPH END ENCLOSURE
→ 1343D egyptian hieroglyph end enclosure

- E10D3 DASHED BOX FOR EGYPTIAN HIEROGLYPH BEGIN WALLED ENCLOSURE
→ 1343E egyptian hieroglyph begin walled enclosure
- E10D4 DASHED BOX FOR EGYPTIAN HIEROGLYPH END WALLED ENCLOSURE
→ 1343F egyptian hieroglyph end walled enclosure
- E10D5 DASHED BOX FOR EGYPTIAN HIEROGLYPH MIRROR HORIZONTALLY
→ 13440 egyptian hieroglyph mirror horizontally
- E10D6 DASHED BOX FOR EGYPTIAN HIEROGLYPH FULL BLANK
→ 13441 egyptian hieroglyph full blank
- E10D7 DASHED BOX FOR EGYPTIAN HIEROGLYPH HALF BLANK
→ 13442 egyptian hieroglyph half blank
- E10D8 DASHED BOX FOR EGYPTIAN HIEROGLYPH LOST SIGN
→ 13443 egyptian hieroglyph lost sign
- E10D9 DASHED BOX FOR EGYPTIAN HIEROGLYPH HALF LOST SIGN
→ 13444 egyptian hieroglyph half lost sign
- E10DA DASHED BOX FOR EGYPTIAN HIEROGLYPH TALL LOST SIGN
→ 13445 egyptian hieroglyph tall lost sign
- E10DB DASHED BOX FOR EGYPTIAN HIEROGLYPH WIDE LOST SIGN
→ 13446 egyptian hieroglyph wide lost sign
- E10DC DASHED BOX FOR EGYPTIAN HIEROGLYPH MODIFIER DAMAGED AT TOP START
→ 13447 egyptian hieroglyph modifier damaged at top start
- E10DD DASHED BOX FOR EGYPTIAN HIEROGLYPH MODIFIER DAMAGED AT BOTTOM START
→ 13448 egyptian hieroglyph modifier damaged at bottom start
- E10DE DASHED BOX FOR EGYPTIAN HIEROGLYPH MODIFIER DAMAGED AT START
→ 13449 egyptian hieroglyph modifier damaged at start
- E10DF DASHED BOX FOR EGYPTIAN HIEROGLYPH MODIFIER DAMAGED AT TOP END
→ 1344A egyptian hieroglyph modifier damaged at top end
- E10E0 DASHED BOX FOR EGYPTIAN HIEROGLYPH MODIFIER DAMAGED AT TOP
→ 1344B egyptian hieroglyph modifier damaged at top
- E10E1 DASHED BOX FOR EGYPTIAN HIEROGLYPH MODIFIER DAMAGED AT BOTTOM START AND TOP END
→ 1344C egyptian hieroglyph modifier damaged at bottom start and top end
- E10E2 DASHED BOX FOR EGYPTIAN HIEROGLYPH MODIFIER DAMAGED AT START AND TOP
→ 1344D egyptian hieroglyph modifier damaged at start and top
- E10E3 DASHED BOX FOR EGYPTIAN HIEROGLYPH MODIFIER DAMAGED AT BOTTOM END
→ 1344E egyptian hieroglyph modifier damaged at bottom end
- E10E4 DASHED BOX FOR EGYPTIAN HIEROGLYPH MODIFIER DAMAGED AT TOP START AND BOTTOM END
→ 1344F egyptian hieroglyph modifier damaged at top start and bottom end

E10E5		DASHED BOX FOR EGYPTIAN HIEROGLYPH MODIFIER DAMAGED AT BOTTOM → 13450
E10E6		DASHED BOX FOR EGYPTIAN HIEROGLYPH MODIFIER DAMAGED AT START AND BOTTOM → 13451
E10E7		DASHED BOX FOR EGYPTIAN HIEROGLYPH MODIFIER DAMAGED AT END → 13452
E10E8		DASHED BOX FOR EGYPTIAN HIEROGLYPH MODIFIER DAMAGED AT TOP AND END → 13453
E10E9		DASHED BOX FOR EGYPTIAN HIEROGLYPH MODIFIER DAMAGED AT BOTTOM AND END → 13454
E10EA		DASHED BOX FOR EGYPTIAN HIEROGLYPH MODIFIER DAMAGED → 13455

Miao

E10EB		DASHED BOX FOR MIAO TONE RIGHT → 16F8F
E10EC		DASHED BOX FOR MIAO TONE TOP RIGHT → 16F90
E10ED		DASHED BOX FOR MIAO TONE ABOVE → 16F91
E10EE		DASHED BOX FOR MIAO TONE BELOW → 16F92

Ideographic Symbols and Punctuation

E10EF		DASHED BOX FOR KHITAN SMALL SCRIPT FILLER → 16FE4
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Duployan

E10F0		DASHED BOX FOR DUPLOYAN THICK LETTER SELECTOR → 1BC9D
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Shorthand Format Controls

E10F1		DASHED BOX FOR SHORTHAND FORMAT LETTER OVERLAP → 1BCA0
E10F2		DASHED BOX FOR SHORTHAND FORMAT CONTINUING OVERLAP → 1BCA1
E10F3		DASHED BOX FOR SHORTHAND FORMAT DOWN STEP → 1BCA2
E10F4		DASHED BOX FOR SHORTHAND FORMAT UP STEP → 1BCA3

Musical Symbols

E10F5		DASHED BOX FOR MUSICAL SYMBOL NULL NOTEHEAD → 1D159
E10F6		DASHED BOX FOR MUSICAL SYMBOL BEGIN BEAM → 1D173
E10F7		DASHED BOX FOR MUSICAL SYMBOL END BEAM → 1D174

E10F8		DASHED BOX FOR MUSICAL SYMBOL BEGIN TIE → 1D175
E10F9		DASHED BOX FOR MUSICAL SYMBOL END TIE → 1D176
E10FA		DASHED BOX FOR MUSICAL SYMBOL BEGIN SLUR → 1D177
E10FB		DASHED BOX FOR MUSICAL SYMBOL END SLUR → 1D178
E10FC		DASHED BOX FOR MUSICAL SYMBOL BEGIN PHRASE → 1D179
E10FD		DASHED BOX FOR MUSICAL SYMBOL END PHRASE → 1D17A

Sutton Signwriting

E10FE		DASHED BOX FOR SIGNWRITING FILL MODIFIER-2 → 1DA9B
E10FF		DASHED BOX FOR SIGNWRITING FILL MODIFIER-3 → 1DA9C
E1100		DASHED BOX FOR SIGNWRITING FILL MODIFIER-4 → 1DA9D
E1101		DASHED BOX FOR SIGNWRITING FILL MODIFIER-5 → 1DA9E
E1102		DASHED BOX FOR SIGNWRITING FILL MODIFIER-6 → 1DA9F
E1103		DASHED BOX FOR SIGNWRITING ROTATION MODIFIER-2 → 1DAA1
E1104		DASHED BOX FOR SIGNWRITING ROTATION MODIFIER-3 → 1DAA2
E1105		DASHED BOX FOR SIGNWRITING ROTATION MODIFIER-4 → 1DAA3
E1106		DASHED BOX FOR SIGNWRITING ROTATION MODIFIER-5 → 1DAA4
E1107		DASHED BOX FOR SIGNWRITING ROTATION MODIFIER-6 → 1DAA5
E1108		DASHED BOX FOR SIGNWRITING ROTATION MODIFIER-7 → 1DAA6
E1109		DASHED BOX FOR SIGNWRITING ROTATION MODIFIER-8 → 1DAA7
E110A		DASHED BOX FOR SIGNWRITING ROTATION MODIFIER-9 → 1DAA8
E110B		DASHED BOX FOR SIGNWRITING ROTATION MODIFIER-10 → 1DAA9

E110C		DASHED BOX FOR SIGNWRITING ROTATION MODIFIER-11 → 1DAAA signwriting rotation modifier-11
E110D		DASHED BOX FOR SIGNWRITING ROTATION MODIFIER-12 → 1DAAB signwriting rotation modifier-12
E110E		DASHED BOX FOR SIGNWRITING ROTATION MODIFIER-13 → 1DAAC signwriting rotation modifier-13
E110F		DASHED BOX FOR SIGNWRITING ROTATION MODIFIER-14 → 1DAAD signwriting rotation modifier-14
E1110		DASHED BOX FOR SIGNWRITING ROTATION MODIFIER-15 → 1DAAE signwriting rotation modifier-15
E1111		DASHED BOX FOR SIGNWRITING ROTATION MODIFIER-16 → 1DAAF signwriting rotation modifier-16

Regional indicator symbols

E1112		DASHED BOX FOR REGIONAL INDICATOR SYMBOL LETTER A → 1F1E6 regional indicator symbol letter a
E1113		DASHED BOX FOR REGIONAL INDICATOR SYMBOL LETTER B → 1F1E7 regional indicator symbol letter b
E1114		DASHED BOX FOR REGIONAL INDICATOR SYMBOL LETTER C → 1F1E8 regional indicator symbol letter c
E1115		DASHED BOX FOR REGIONAL INDICATOR SYMBOL LETTER D → 1F1E9 regional indicator symbol letter d
E1116		DASHED BOX FOR REGIONAL INDICATOR SYMBOL LETTER E → 1F1EA regional indicator symbol letter e
E1117		DASHED BOX FOR REGIONAL INDICATOR SYMBOL LETTER F → 1F1EB regional indicator symbol letter f
E1118		DASHED BOX FOR REGIONAL INDICATOR SYMBOL LETTER G → 1F1EC regional indicator symbol letter g
E1119		DASHED BOX FOR REGIONAL INDICATOR SYMBOL LETTER H → 1F1ED regional indicator symbol letter h
E111A		DASHED BOX FOR REGIONAL INDICATOR SYMBOL LETTER I → 1F1EE regional indicator symbol letter i
E111B		DASHED BOX FOR REGIONAL INDICATOR SYMBOL LETTER J → 1F1EF regional indicator symbol letter j
E111C		DASHED BOX FOR REGIONAL INDICATOR SYMBOL LETTER K → 1F1F0 regional indicator symbol letter k

E111D		DASHED BOX FOR REGIONAL INDICATOR SYMBOL LETTER L → 1F1F1 regional indicator symbol letter l
E111E		DASHED BOX FOR REGIONAL INDICATOR SYMBOL LETTER M → 1F1F2 regional indicator symbol letter m
E111F		DASHED BOX FOR REGIONAL INDICATOR SYMBOL LETTER N → 1F1F3 regional indicator symbol letter n
E1120		DASHED BOX FOR REGIONAL INDICATOR SYMBOL LETTER O → 1F1F4 regional indicator symbol letter o
E1121		DASHED BOX FOR REGIONAL INDICATOR SYMBOL LETTER P → 1F1F5 regional indicator symbol letter p
E1122		DASHED BOX FOR REGIONAL INDICATOR SYMBOL LETTER Q → 1F1F6 regional indicator symbol letter q
E1123		DASHED BOX FOR REGIONAL INDICATOR SYMBOL LETTER R → 1F1F7 regional indicator symbol letter r
E1124		DASHED BOX FOR REGIONAL INDICATOR SYMBOL LETTER S → 1F1F8 regional indicator symbol letter s
E1125		DASHED BOX FOR REGIONAL INDICATOR SYMBOL LETTER T → 1F1F9 regional indicator symbol letter t
E1126		DASHED BOX FOR REGIONAL INDICATOR SYMBOL LETTER U → 1F1FA regional indicator symbol letter u
E1127		DASHED BOX FOR REGIONAL INDICATOR SYMBOL LETTER V → 1F1FB regional indicator symbol letter v
E1128		DASHED BOX FOR REGIONAL INDICATOR SYMBOL LETTER W → 1F1FC regional indicator symbol letter w
E1129		DASHED BOX FOR REGIONAL INDICATOR SYMBOL LETTER X → 1F1FD regional indicator symbol letter x
E112A		DASHED BOX FOR REGIONAL INDICATOR SYMBOL LETTER Y → 1F1FE regional indicator symbol letter y
E112B		DASHED BOX FOR REGIONAL INDICATOR SYMBOL LETTER Z → 1F1FF regional indicator symbol letter z

Supplemental Symbols and Pictographs

E112C		DASHED BOX FOR EMOJI COMPONENT RED HAIR → 1F9B0 emoji component red hair
E112D		DASHED BOX FOR EMOJI COMPONENT CURLY HAIR → 1F9B1 emoji component curly hair
E112E		DASHED BOX FOR EMOJI COMPONENT BALD → 1F9B2 emoji component bald

E112F DASHED BOX FOR EMOJI COMPONENT WHITE HAIR
→ 1F9B3 emoji component white hair

Variation Selectors Supplement

- E1130 DASHED BOX FOR VARIATION SELECTOR-17
→ E0100 variation selector-17
- E1131 DASHED BOX FOR VARIATION SELECTOR-18
→ E0101 variation selector-18
- E1132 DASHED BOX FOR VARIATION SELECTOR-19
→ E0102 variation selector-19
- E1133 DASHED BOX FOR VARIATION SELECTOR-20
→ E0103 variation selector-20
- E1134 DASHED BOX FOR VARIATION SELECTOR-21
→ E0104 variation selector-21
- E1135 DASHED BOX FOR VARIATION SELECTOR-22
→ E0105 variation selector-22
- E1136 DASHED BOX FOR VARIATION SELECTOR-23
→ E0106 variation selector-23
- E1137 DASHED BOX FOR VARIATION SELECTOR-24
→ E0107 variation selector-24
- E1138 DASHED BOX FOR VARIATION SELECTOR-25
→ E0108 variation selector-25
- E1139 DASHED BOX FOR VARIATION SELECTOR-26
→ E0109 variation selector-26
- E113A DASHED BOX FOR VARIATION SELECTOR-27
→ E010A variation selector-27
- E113B DASHED BOX FOR VARIATION SELECTOR-28
→ E010B variation selector-28
- E113C DASHED BOX FOR VARIATION SELECTOR-29
→ E010C variation selector-29
- E113D DASHED BOX FOR VARIATION SELECTOR-30
→ E010D variation selector-30
- E113E DASHED BOX FOR VARIATION SELECTOR-31
→ E010E variation selector-31
- E113F DASHED BOX FOR VARIATION SELECTOR-32
→ E010F variation selector-32
- E1140 DASHED BOX FOR VARIATION SELECTOR-33
→ E0110 variation selector-33
- E1141 DASHED BOX FOR VARIATION SELECTOR-34
→ E0111 variation selector-34
- E1142 DASHED BOX FOR VARIATION SELECTOR-35
→ E0112 variation selector-35
- E1143 DASHED BOX FOR VARIATION SELECTOR-36
→ E0113 variation selector-36
- E1144 DASHED BOX FOR VARIATION SELECTOR-37
→ E0114 variation selector-37
- E1145 DASHED BOX FOR VARIATION SELECTOR-38
→ E0115 variation selector-38
- E1146 DASHED BOX FOR VARIATION SELECTOR-39
→ E0116 variation selector-39
- E1147 DASHED BOX FOR VARIATION SELECTOR-40
→ E0117 variation selector-40
- E1148 DASHED BOX FOR VARIATION SELECTOR-41
→ E0118 variation selector-41
- E1149 DASHED BOX FOR VARIATION SELECTOR-42
→ E0119 variation selector-42
- E114A DASHED BOX FOR VARIATION SELECTOR-43
→ E011A variation selector-43
- E114B DASHED BOX FOR VARIATION SELECTOR-44
→ E011B variation selector-44
- E114C DASHED BOX FOR VARIATION SELECTOR-45
→ E011C variation selector-45
- E114D DASHED BOX FOR VARIATION SELECTOR-46
→ E011D variation selector-46
- E114E DASHED BOX FOR VARIATION SELECTOR-47
→ E011E variation selector-47

- E114F DASHED BOX FOR VARIATION SELECTOR-48
→ E011F variation selector-48
- E1150 DASHED BOX FOR VARIATION SELECTOR-49
→ E0120 variation selector-49
- E1151 DASHED BOX FOR VARIATION SELECTOR-50
→ E0121 variation selector-50
- E1152 DASHED BOX FOR VARIATION SELECTOR-51
→ E0122 variation selector-51
- E1153 DASHED BOX FOR VARIATION SELECTOR-52
→ E0123 variation selector-52
- E1154 DASHED BOX FOR VARIATION SELECTOR-53
→ E0124 variation selector-53
- E1155 DASHED BOX FOR VARIATION SELECTOR-54
→ E0125 variation selector-54
- E1156 DASHED BOX FOR VARIATION SELECTOR-55
→ E0126 variation selector-55
- E1157 DASHED BOX FOR VARIATION SELECTOR-56
→ E0127 variation selector-56
- E1158 DASHED BOX FOR VARIATION SELECTOR-57
→ E0128 variation selector-57
- E1159 DASHED BOX FOR VARIATION SELECTOR-58
→ E0129 variation selector-58
- E115A DASHED BOX FOR VARIATION SELECTOR-59
→ E012A variation selector-59
- E115B DASHED BOX FOR VARIATION SELECTOR-60
→ E012B variation selector-60
- E115C DASHED BOX FOR VARIATION SELECTOR-61
→ E012C variation selector-61
- E115D DASHED BOX FOR VARIATION SELECTOR-62
→ E012D variation selector-62
- E115E DASHED BOX FOR VARIATION SELECTOR-63
→ E012E variation selector-63
- E115F DASHED BOX FOR VARIATION SELECTOR-64
→ E012F variation selector-64
- E1160 DASHED BOX FOR VARIATION SELECTOR-65
→ E0130 variation selector-65
- E1161 DASHED BOX FOR VARIATION SELECTOR-66
→ E0131 variation selector-66
- E1162 DASHED BOX FOR VARIATION SELECTOR-67
→ E0132 variation selector-67
- E1163 DASHED BOX FOR VARIATION SELECTOR-68
→ E0133 variation selector-68
- E1164 DASHED BOX FOR VARIATION SELECTOR-69
→ E0134 variation selector-69
- E1165 DASHED BOX FOR VARIATION SELECTOR-70
→ E0135 variation selector-70
- E1166 DASHED BOX FOR VARIATION SELECTOR-71
→ E0136 variation selector-71
- E1167 DASHED BOX FOR VARIATION SELECTOR-72
→ E0137 variation selector-72
- E1168 DASHED BOX FOR VARIATION SELECTOR-73
→ E0138 variation selector-73
- E1169 DASHED BOX FOR VARIATION SELECTOR-74
→ E0139 variation selector-74
- E116A DASHED BOX FOR VARIATION SELECTOR-75
→ E013A variation selector-75
- E116B DASHED BOX FOR VARIATION SELECTOR-76
→ E013B variation selector-76
- E116C DASHED BOX FOR VARIATION SELECTOR-77
→ E013C variation selector-77
- E116D DASHED BOX FOR VARIATION SELECTOR-78
→ E013D variation selector-78
- E116E DASHED BOX FOR VARIATION SELECTOR-79
→ E013E variation selector-79
- E116F DASHED BOX FOR VARIATION SELECTOR-80
→ E013F variation selector-80

E1170	VS 81	DASHED BOX FOR VARIATION SELECTOR-81 → E0140 VS 81 variation selector-81
E1171	VS 82	DASHED BOX FOR VARIATION SELECTOR-82 → E0141 VS 82 variation selector-82
E1172	VS 83	DASHED BOX FOR VARIATION SELECTOR-83 → E0142 VS 83 variation selector-83
E1173	VS 84	DASHED BOX FOR VARIATION SELECTOR-84 → E0143 VS 84 variation selector-84
E1174	VS 85	DASHED BOX FOR VARIATION SELECTOR-85 → E0144 VS 85 variation selector-85
E1175	VS 86	DASHED BOX FOR VARIATION SELECTOR-86 → E0145 VS 86 variation selector-86
E1176	VS 87	DASHED BOX FOR VARIATION SELECTOR-87 → E0146 VS 87 variation selector-87
E1177	VS 88	DASHED BOX FOR VARIATION SELECTOR-88 → E0147 VS 88 variation selector-88
E1178	VS 89	DASHED BOX FOR VARIATION SELECTOR-89 → E0148 VS 89 variation selector-89
E1179	VS 90	DASHED BOX FOR VARIATION SELECTOR-90 → E0149 VS 90 variation selector-90
E117A	VS 91	DASHED BOX FOR VARIATION SELECTOR-91 → E014A VS 91 variation selector-91
E117B	VS 92	DASHED BOX FOR VARIATION SELECTOR-92 → E014B VS 92 variation selector-92
E117C	VS 93	DASHED BOX FOR VARIATION SELECTOR-93 → E014C VS 93 variation selector-93
E117D	VS 94	DASHED BOX FOR VARIATION SELECTOR-94 → E014D VS 94 variation selector-94
E117E	VS 95	DASHED BOX FOR VARIATION SELECTOR-95 → E014E VS 95 variation selector-95
E117F	VS 96	DASHED BOX FOR VARIATION SELECTOR-96 → E014F VS 96 variation selector-96
E1180	VS 97	DASHED BOX FOR VARIATION SELECTOR-97 → E0150 VS 97 variation selector-97
E1181	VS 98	DASHED BOX FOR VARIATION SELECTOR-98 → E0151 VS 98 variation selector-98
E1182	VS 99	DASHED BOX FOR VARIATION SELECTOR-99 → E0152 VS 99 variation selector-99
E1183	VS 100	DASHED BOX FOR VARIATION SELECTOR-100 → E0153 VS 100 variation selector-100
E1184	VS 101	DASHED BOX FOR VARIATION SELECTOR-101 → E0154 VS 101 variation selector-101
E1185	VS 102	DASHED BOX FOR VARIATION SELECTOR-102 → E0155 VS 102 variation selector-102
E1186	VS 103	DASHED BOX FOR VARIATION SELECTOR-103 → E0156 VS 103 variation selector-103
E1187	VS 104	DASHED BOX FOR VARIATION SELECTOR-104 → E0157 VS 104 variation selector-104
E1188	VS 105	DASHED BOX FOR VARIATION SELECTOR-105 → E0158 VS 105 variation selector-105
E1189	VS 106	DASHED BOX FOR VARIATION SELECTOR-106 → E0159 VS 106 variation selector-106
E118A	VS 107	DASHED BOX FOR VARIATION SELECTOR-107 → E015A VS 107 variation selector-107
E118B	VS 108	DASHED BOX FOR VARIATION SELECTOR-108 → E015B VS 108 variation selector-108
E118C	VS 109	DASHED BOX FOR VARIATION SELECTOR-109 → E015C VS 109 variation selector-109
E118D	VS 110	DASHED BOX FOR VARIATION SELECTOR-110 → E015D VS 110 variation selector-110
E118E	VS 111	DASHED BOX FOR VARIATION SELECTOR-111 → E015E VS 111 variation selector-111
E118F	VS 112	DASHED BOX FOR VARIATION SELECTOR-112 → E015F VS 112 variation selector-112
E1190	VS 113	DASHED BOX FOR VARIATION SELECTOR-113 → E0160 VS 113 variation selector-113

E1191	VS 114	DASHED BOX FOR VARIATION SELECTOR-114 → E0161 VS 114 variation selector-114
E1192	VS 115	DASHED BOX FOR VARIATION SELECTOR-115 → E0162 VS 115 variation selector-115
E1193	VS 116	DASHED BOX FOR VARIATION SELECTOR-116 → E0163 VS 116 variation selector-116
E1194	VS 117	DASHED BOX FOR VARIATION SELECTOR-117 → E0164 VS 117 variation selector-117
E1195	VS 118	DASHED BOX FOR VARIATION SELECTOR-118 → E0165 VS 118 variation selector-118
E1196	VS 119	DASHED BOX FOR VARIATION SELECTOR-119 → E0166 VS 119 variation selector-119
E1197	VS 120	DASHED BOX FOR VARIATION SELECTOR-120 → E0167 VS 120 variation selector-120
E1198	VS 121	DASHED BOX FOR VARIATION SELECTOR-121 → E0168 VS 121 variation selector-121
E1199	VS 122	DASHED BOX FOR VARIATION SELECTOR-122 → E0169 VS 122 variation selector-122
E119A	VS 123	DASHED BOX FOR VARIATION SELECTOR-123 → E016A VS 123 variation selector-123
E119B	VS 124	DASHED BOX FOR VARIATION SELECTOR-124 → E016B VS 124 variation selector-124
E119C	VS 125	DASHED BOX FOR VARIATION SELECTOR-125 → E016C VS 125 variation selector-125
E119D	VS 126	DASHED BOX FOR VARIATION SELECTOR-126 → E016D VS 126 variation selector-126
E119E	VS 127	DASHED BOX FOR VARIATION SELECTOR-127 → E016E VS 127 variation selector-127
E119F	VS 128	DASHED BOX FOR VARIATION SELECTOR-128 → E016F VS 128 variation selector-128
E11A0	VS 129	DASHED BOX FOR VARIATION SELECTOR-129 → E0170 VS 129 variation selector-129
E11A1	VS 130	DASHED BOX FOR VARIATION SELECTOR-130 → E0171 VS 130 variation selector-130
E11A2	VS 131	DASHED BOX FOR VARIATION SELECTOR-131 → E0172 VS 131 variation selector-131
E11A3	VS 132	DASHED BOX FOR VARIATION SELECTOR-132 → E0173 VS 132 variation selector-132
E11A4	VS 133	DASHED BOX FOR VARIATION SELECTOR-133 → E0174 VS 133 variation selector-133
E11A5	VS 134	DASHED BOX FOR VARIATION SELECTOR-134 → E0175 VS 134 variation selector-134
E11A6	VS 135	DASHED BOX FOR VARIATION SELECTOR-135 → E0176 VS 135 variation selector-135
E11A7	VS 136	DASHED BOX FOR VARIATION SELECTOR-136 → E0177 VS 136 variation selector-136
E11A8	VS 137	DASHED BOX FOR VARIATION SELECTOR-137 → E0178 VS 137 variation selector-137
E11A9	VS 138	DASHED BOX FOR VARIATION SELECTOR-138 → E0179 VS 138 variation selector-138
E11AA	VS 139	DASHED BOX FOR VARIATION SELECTOR-139 → E017A VS 139 variation selector-139
E11AB	VS 140	DASHED BOX FOR VARIATION SELECTOR-140 → E017B VS 140 variation selector-140
E11AC	VS 141	DASHED BOX FOR VARIATION SELECTOR-141 → E017C VS 141 variation selector-141
E11AD	VS 142	DASHED BOX FOR VARIATION SELECTOR-142 → E017D VS 142 variation selector-142
E11AE	VS 143	DASHED BOX FOR VARIATION SELECTOR-143 → E017E VS 143 variation selector-143
E11AF	VS 144	DASHED BOX FOR VARIATION SELECTOR-144 → E017F VS 144 variation selector-144
E11B0	VS 145	DASHED BOX FOR VARIATION SELECTOR-145 → E0180 VS 145 variation selector-145
E11B1	VS 146	DASHED BOX FOR VARIATION SELECTOR-146 → E0181 VS 146 variation selector-146

E11B2	<small>VS 147</small>	DASHED BOX FOR VARIATION SELECTOR-147 → E0182 <small>VS 147</small> variation selector-147	E11D3	<small>VS 180</small>	DASHED BOX FOR VARIATION SELECTOR-180 → E01A3 <small>VS 180</small> variation selector-180
E11B3	<small>VS 148</small>	DASHED BOX FOR VARIATION SELECTOR-148 → E0183 <small>VS 148</small> variation selector-148	E11D4	<small>VS 181</small>	DASHED BOX FOR VARIATION SELECTOR-181 → E01A4 <small>VS 181</small> variation selector-181
E11B4	<small>VS 149</small>	DASHED BOX FOR VARIATION SELECTOR-149 → E0184 <small>VS 149</small> variation selector-149	E11D5	<small>VS 182</small>	DASHED BOX FOR VARIATION SELECTOR-182 → E01A5 <small>VS 182</small> variation selector-182
E11B5	<small>VS 150</small>	DASHED BOX FOR VARIATION SELECTOR-150 → E0185 <small>VS 150</small> variation selector-150	E11D6	<small>VS 183</small>	DASHED BOX FOR VARIATION SELECTOR-183 → E01A6 <small>VS 183</small> variation selector-183
E11B6	<small>VS 151</small>	DASHED BOX FOR VARIATION SELECTOR-151 → E0186 <small>VS 151</small> variation selector-151	E11D7	<small>VS 184</small>	DASHED BOX FOR VARIATION SELECTOR-184 → E01A7 <small>VS 184</small> variation selector-184
E11B7	<small>VS 152</small>	DASHED BOX FOR VARIATION SELECTOR-152 → E0187 <small>VS 152</small> variation selector-152	E11D8	<small>VS 185</small>	DASHED BOX FOR VARIATION SELECTOR-185 → E01A8 <small>VS 185</small> variation selector-185
E11B8	<small>VS 153</small>	DASHED BOX FOR VARIATION SELECTOR-153 → E0188 <small>VS 153</small> variation selector-153	E11D9	<small>VS 186</small>	DASHED BOX FOR VARIATION SELECTOR-186 → E01A9 <small>VS 186</small> variation selector-186
E11B9	<small>VS 154</small>	DASHED BOX FOR VARIATION SELECTOR-154 → E0189 <small>VS 154</small> variation selector-154	E11DA	<small>VS 187</small>	DASHED BOX FOR VARIATION SELECTOR-187 → E01AA <small>VS 187</small> variation selector-187
E11BA	<small>VS 155</small>	DASHED BOX FOR VARIATION SELECTOR-155 → E018A <small>VS 155</small> variation selector-155	E11DB	<small>VS 188</small>	DASHED BOX FOR VARIATION SELECTOR-188 → E01AB <small>VS 188</small> variation selector-188
E11BB	<small>VS 156</small>	DASHED BOX FOR VARIATION SELECTOR-156 → E018B <small>VS 156</small> variation selector-156	E11DC	<small>VS 189</small>	DASHED BOX FOR VARIATION SELECTOR-189 → E01AC <small>VS 189</small> variation selector-189
E11BC	<small>VS 157</small>	DASHED BOX FOR VARIATION SELECTOR-157 → E018C <small>VS 157</small> variation selector-157	E11DD	<small>VS 190</small>	DASHED BOX FOR VARIATION SELECTOR-190 → E01AD <small>VS 190</small> variation selector-190
E11BD	<small>VS 158</small>	DASHED BOX FOR VARIATION SELECTOR-158 → E018D <small>VS 158</small> variation selector-158	E11DE	<small>VS 191</small>	DASHED BOX FOR VARIATION SELECTOR-191 → E01AE <small>VS 191</small> variation selector-191
E11BE	<small>VS 159</small>	DASHED BOX FOR VARIATION SELECTOR-159 → E018E <small>VS 159</small> variation selector-159	E11DF	<small>VS 192</small>	DASHED BOX FOR VARIATION SELECTOR-192 → E01AF <small>VS 192</small> variation selector-192
E11BF	<small>VS 160</small>	DASHED BOX FOR VARIATION SELECTOR-160 → E018F <small>VS 160</small> variation selector-160	E11E0	<small>VS 193</small>	DASHED BOX FOR VARIATION SELECTOR-193 → E01B0 <small>VS 193</small> variation selector-193
E11C0	<small>VS 161</small>	DASHED BOX FOR VARIATION SELECTOR-161 → E0190 <small>VS 161</small> variation selector-161	E11E1	<small>VS 194</small>	DASHED BOX FOR VARIATION SELECTOR-194 → E01B1 <small>VS 194</small> variation selector-194
E11C1	<small>VS 162</small>	DASHED BOX FOR VARIATION SELECTOR-162 → E0191 <small>VS 162</small> variation selector-162	E11E2	<small>VS 195</small>	DASHED BOX FOR VARIATION SELECTOR-195 → E01B2 <small>VS 195</small> variation selector-195
E11C2	<small>VS 163</small>	DASHED BOX FOR VARIATION SELECTOR-163 → E0192 <small>VS 163</small> variation selector-163	E11E3	<small>VS 196</small>	DASHED BOX FOR VARIATION SELECTOR-196 → E01B3 <small>VS 196</small> variation selector-196
E11C3	<small>VS 164</small>	DASHED BOX FOR VARIATION SELECTOR-164 → E0193 <small>VS 164</small> variation selector-164	E11E4	<small>VS 197</small>	DASHED BOX FOR VARIATION SELECTOR-197 → E01B4 <small>VS 197</small> variation selector-197
E11C4	<small>VS 165</small>	DASHED BOX FOR VARIATION SELECTOR-165 → E0194 <small>VS 165</small> variation selector-165	E11E5	<small>VS 198</small>	DASHED BOX FOR VARIATION SELECTOR-198 → E01B5 <small>VS 198</small> variation selector-198
E11C5	<small>VS 166</small>	DASHED BOX FOR VARIATION SELECTOR-166 → E0195 <small>VS 166</small> variation selector-166	E11E6	<small>VS 199</small>	DASHED BOX FOR VARIATION SELECTOR-199 → E01B6 <small>VS 199</small> variation selector-199
E11C6	<small>VS 167</small>	DASHED BOX FOR VARIATION SELECTOR-167 → E0196 <small>VS 167</small> variation selector-167	E11E7	<small>VS 200</small>	DASHED BOX FOR VARIATION SELECTOR-200 → E01B7 <small>VS 200</small> variation selector-200
E11C7	<small>VS 168</small>	DASHED BOX FOR VARIATION SELECTOR-168 → E0197 <small>VS 168</small> variation selector-168	E11E8	<small>VS 201</small>	DASHED BOX FOR VARIATION SELECTOR-201 → E01B8 <small>VS 201</small> variation selector-201
E11C8	<small>VS 169</small>	DASHED BOX FOR VARIATION SELECTOR-169 → E0198 <small>VS 169</small> variation selector-169	E11E9	<small>VS 202</small>	DASHED BOX FOR VARIATION SELECTOR-202 → E01B9 <small>VS 202</small> variation selector-202
E11C9	<small>VS 170</small>	DASHED BOX FOR VARIATION SELECTOR-170 → E0199 <small>VS 170</small> variation selector-170	E11EA	<small>VS 203</small>	DASHED BOX FOR VARIATION SELECTOR-203 → E01BA <small>VS 203</small> variation selector-203
E11CA	<small>VS 171</small>	DASHED BOX FOR VARIATION SELECTOR-171 → E019A <small>VS 171</small> variation selector-171	E11EB	<small>VS 204</small>	DASHED BOX FOR VARIATION SELECTOR-204 → E01BB <small>VS 204</small> variation selector-204
E11CB	<small>VS 172</small>	DASHED BOX FOR VARIATION SELECTOR-172 → E019B <small>VS 172</small> variation selector-172	E11EC	<small>VS 205</small>	DASHED BOX FOR VARIATION SELECTOR-205 → E01BC <small>VS 205</small> variation selector-205
E11CC	<small>VS 173</small>	DASHED BOX FOR VARIATION SELECTOR-173 → E019C <small>VS 173</small> variation selector-173	E11ED	<small>VS 206</small>	DASHED BOX FOR VARIATION SELECTOR-206 → E01BD <small>VS 206</small> variation selector-206
E11CD	<small>VS 174</small>	DASHED BOX FOR VARIATION SELECTOR-174 → E019D <small>VS 174</small> variation selector-174	E11EE	<small>VS 207</small>	DASHED BOX FOR VARIATION SELECTOR-207 → E01BE <small>VS 207</small> variation selector-207
E11CE	<small>VS 175</small>	DASHED BOX FOR VARIATION SELECTOR-175 → E019E <small>VS 175</small> variation selector-175	E11EF	<small>VS 208</small>	DASHED BOX FOR VARIATION SELECTOR-208 → E01BF <small>VS 208</small> variation selector-208
E11CF	<small>VS 176</small>	DASHED BOX FOR VARIATION SELECTOR-176 → E019F <small>VS 176</small> variation selector-176	E11F0	<small>VS 209</small>	DASHED BOX FOR VARIATION SELECTOR-209 → E01C0 <small>VS 209</small> variation selector-209
E11D0	<small>VS 177</small>	DASHED BOX FOR VARIATION SELECTOR-177 → E01A0 <small>VS 177</small> variation selector-177	E11F1	<small>VS 210</small>	DASHED BOX FOR VARIATION SELECTOR-210 → E01C1 <small>VS 210</small> variation selector-210
E11D1	<small>VS 178</small>	DASHED BOX FOR VARIATION SELECTOR-178 → E01A1 <small>VS 178</small> variation selector-178	E11F2	<small>VS 211</small>	DASHED BOX FOR VARIATION SELECTOR-211 → E01C2 <small>VS 211</small> variation selector-211
E11D2	<small>VS 179</small>	DASHED BOX FOR VARIATION SELECTOR-179 → E01A2 <small>VS 179</small> variation selector-179	E11F3	<small>VS 212</small>	DASHED BOX FOR VARIATION SELECTOR-212 → E01C3 <small>VS 212</small> variation selector-212

E11F4	DASHED BOX FOR VARIATION SELECTOR-213	→ E01C4 variation selector-213	E1215	DASHED BOX FOR VARIATION SELECTOR-246	→ E01E5 variation selector-246
E11F5	DASHED BOX FOR VARIATION SELECTOR-214	→ E01C5 variation selector-214	E1216	DASHED BOX FOR VARIATION SELECTOR-247	→ E01E6 variation selector-247
E11F6	DASHED BOX FOR VARIATION SELECTOR-215	→ E01C6 variation selector-215	E1217	DASHED BOX FOR VARIATION SELECTOR-248	→ E01E7 variation selector-248
E11F7	DASHED BOX FOR VARIATION SELECTOR-216	→ E01C7 variation selector-216	E1218	DASHED BOX FOR VARIATION SELECTOR-249	→ E01E8 variation selector-249
E11F8	DASHED BOX FOR VARIATION SELECTOR-217	→ E01C8 variation selector-217	E1219	DASHED BOX FOR VARIATION SELECTOR-250	→ E01E9 variation selector-250
E11F9	DASHED BOX FOR VARIATION SELECTOR-218	→ E01C9 variation selector-218	E121A	DASHED BOX FOR VARIATION SELECTOR-251	→ E01EA variation selector-251
E11FA	DASHED BOX FOR VARIATION SELECTOR-219	→ E01CA variation selector-219	E121B	DASHED BOX FOR VARIATION SELECTOR-252	→ E01EB variation selector-252
E11FB	DASHED BOX FOR VARIATION SELECTOR-220	→ E01CB variation selector-220	E121C	DASHED BOX FOR VARIATION SELECTOR-253	→ E01EC variation selector-253
E11FC	DASHED BOX FOR VARIATION SELECTOR-221	→ E01CC variation selector-221	E121D	DASHED BOX FOR VARIATION SELECTOR-254	→ E01ED variation selector-254
E11FD	DASHED BOX FOR VARIATION SELECTOR-222	→ E01CD variation selector-222	E121E	DASHED BOX FOR VARIATION SELECTOR-255	→ E01EE variation selector-255
E11FE	DASHED BOX FOR VARIATION SELECTOR-223	→ E01CE variation selector-223	E121F	DASHED BOX FOR VARIATION SELECTOR-256	→ E01EF variation selector-256
E11FF	DASHED BOX FOR VARIATION SELECTOR-224	→ E01CF variation selector-224			
E1200	DASHED BOX FOR VARIATION SELECTOR-225	→ E01D0 variation selector-225			
E1201	DASHED BOX FOR VARIATION SELECTOR-226	→ E01D1 variation selector-226			
E1202	DASHED BOX FOR VARIATION SELECTOR-227	→ E01D2 variation selector-227			
E1203	DASHED BOX FOR VARIATION SELECTOR-228	→ E01D3 variation selector-228			
E1204	DASHED BOX FOR VARIATION SELECTOR-229	→ E01D4 variation selector-229			
E1205	DASHED BOX FOR VARIATION SELECTOR-230	→ E01D5 variation selector-230			
E1206	DASHED BOX FOR VARIATION SELECTOR-231	→ E01D6 variation selector-231			
E1207	DASHED BOX FOR VARIATION SELECTOR-232	→ E01D7 variation selector-232			
E1208	DASHED BOX FOR VARIATION SELECTOR-233	→ E01D8 variation selector-233			
E1209	DASHED BOX FOR VARIATION SELECTOR-234	→ E01D9 variation selector-234			
E120A	DASHED BOX FOR VARIATION SELECTOR-235	→ E01DA variation selector-235			
E120B	DASHED BOX FOR VARIATION SELECTOR-236	→ E01DB variation selector-236			
E120C	DASHED BOX FOR VARIATION SELECTOR-237	→ E01DC variation selector-237			
E120D	DASHED BOX FOR VARIATION SELECTOR-238	→ E01DD variation selector-238			
E120E	DASHED BOX FOR VARIATION SELECTOR-239	→ E01DE variation selector-239			
E120F	DASHED BOX FOR VARIATION SELECTOR-240	→ E01DF variation selector-240			
E1210	DASHED BOX FOR VARIATION SELECTOR-241	→ E01E0 variation selector-241			
E1211	DASHED BOX FOR VARIATION SELECTOR-242	→ E01E1 variation selector-242			
E1212	DASHED BOX FOR VARIATION SELECTOR-243	→ E01E2 variation selector-243			
E1213	DASHED BOX FOR VARIATION SELECTOR-244	→ E01E3 variation selector-244			
E1214	DASHED BOX FOR VARIATION SELECTOR-245	→ E01E4 variation selector-245			

Specials

E12FE SYMBOL FOR RESERVED CHARACTER
 E12FF SYMBOL FOR NONCHARACTER