Irish comments on ISO/IEC PDAM 2.2 10646:2012
Reference: SC2 N4239
Closes: 2012-10-03
Date: 2012-10-02

Ireland **disapproves** the draft with the technical and editorial comments given below. Acceptance of these comments and appropriate changes to the text will change our vote to approval. In the attached charts, characters proposed to be added to the PDAM are coloured in blue, and characters whose names or glyphs are proposed to be changed are coloured in yellow.

T1. **Page 44, Row A720:** Ireland reiterates its support for A78F LATIN LETTER MIDDLE DOT and opposes further attempts to delay or prevent the encoding of this character. We note the following facts:

- Andrew West proposed this character in N3567 (2009-01-24, revised 2009-04-04) on the basis that his scientific work in Tangut and 'Phags-Pa requires a letter for transliteration of the letter ꡙ [?] whose transliteration is represented by a kind of dot, a use which goes back to Sinologists Dragonov in the 1930s and Karlgren in the 1940s and was taken over by Chinese scholars as well. Typography in these sources was not uniform, but a good practice can be established from them for modern use. We recommend the addition of an additional informative note to assist font developers and to reduce what the US National Body has suggested might be a measure of confusion about the character:

  A78F LATIN LETTER MIDDLE DOT
  • *used for transliteration for Phags-Pa and for phonetic transcription for Tangut*
  • *glyph is about 50% larger than the dots of a colon and is centred on the x-height line*

  An example can be seen here of what appears to be the clearest practice:

$$\text{Tangut: •üge•ü: ʼPhags-pa}$$

- Andrew West clarified in N3694 (2009-10-05) the use of this character and its relation to other characters in the standard, since the Script Encoding Initiative had suggested that he might use either 00B7 MIDDLE DOT or 02D1 MODIFIER LETTER HALF TRIANGULAR COLON instead to represent this character. West demonstrated that 00B7 MIDDLE DOT is commonly used as a separator or joiner of the characters on either side of it. This is not consistent with West's stated requirement, which was to have a character with the properties of a *letter* to represent in transliteration the *letter* of another script.
- In N3678, the statement is made: "*The encoding of another middle dot for Phags-Pa is unnecessary, particularly as the middle dot is already use widely in linguistic transcription/ transliteration and Americanist orthographies, and seems to be encoded on modern webpages by U+00B7 or U+02D1.*" This is irrelevant, because the things that the existing MIDDLE DOT is used for have nothing to do with the transliteration of the 'Phags-pa letter ꡙ.
- The SEI (and the US National Body in subsequent ballot comments) appear to have recognized that the character properties of 00B7 MIDDLE DOT were not appropriate, and have instead suggested that "*A viable alternative to encoding a separate letter middle dot,*

for the purposes cited by the original proposal, would be to use the already encoded modifier letter, U+02D1 MODIFIER LETTER HALF TRIANGULAR COLON."

- The fact that the US National Body has suggested the use of 02D1 indicates that they have accepted West's requirement for a letter (a character with a letter property) rather than a punctuation character for the purposes of transliterating 'Phags-pa. The character that they have suggested, however, 02D1 MODIFIER LETTER HALF TRIANGULAR COLON, cannot be used for such a purpose. That character and its related character 02D0 MODIFIER LETTER TRIANGULAR COLON are both explicitly defined as being *triangular* and have been since their introduction in the International Phonetic Alphabet.

- In N3678, the statement is made: "*The result of encoding another middle dot will be to create yet another look-alike character.*" This is hardly a concern. Since 2009, 2E33 RAISED DOT and 2E31 WORD SEPARATOR DOT have both been encoded. Indeed, on the present PDAM 2, we can see the already-encoded 11066 BRAHMI DIGIT ZERO, which looks like a dot, and the under-ballot 11184 MAHAJANI ABBREVIATION SIGN, alongside the already-encoded 111C7 SHARADA ABBREVIATION SIGN, both of which are dotlike. The objections to the LATIN LETTER MIDDLE DOT are not consistent.

- In N3678, the statement is made: "*In my view, the best option for users is to use U+02D1 with a rounded glyph.*" It is not in the purview of the author of N3678, or of the US National Body, to alter by fiat the shape of the character 02D0 or 02D1 which exist distinct from MIDDLE DOT and from COLON to support the *explicitly-triangular* character used by the International Phonetic Association. In a recent discussion with a member of the Irish National Body, phonetician John C. Wells—a long-time member of the International Phonetic Association—made it clear that the idea that the 02D1 MODIFIER LETTER HALF TRIANGULAR COLON could have any other shape than triangular was quite out of the question.

- In N3678, the statement is made: "*This character is being used by linguists and others currently, is able to be found via search engines, and is found in both circular and triangular shapes.*" Again, this is irrelevant, because the things that either MIDDLE DOT (which has a circular shape) or MODIFIER LETTER HALF TRIANGULAR COLON (which has a triangular shape) are used for have nothing to do with the transliteration of 'Phags-pa ꡙ. Users of those characters will continue to use them and to enjoy their properties. West and other Sinologists require a different character, with different properties.

At the end of the day, the Irish National Body believes that a disservice has been done to Andrew West, who helped to encode 'Phags-pa, who is helping to encode Tangut, and who is a linguist and expert who clearly understands the UCS and the meaning of character properties. The US National Body has opposed the encoding of LATIN LETTER MIDDLE DOT, but they have acknowledged that a character with the "letter" property is a valid requirement of West. The character they have proposed, however, *cannot* be used for transliteration of 'Phags-pa ꡙ, because that would be disruptive of the character identity and recommended glyph shape for the IPA half-length mark.

The correct solution here is not for SC2 to continue to delay waiting for more argument, since no *new* argument has been offered since N3678. One NB has made its argument but has failed to offer a solution superior to the requested new character which is on the ballot. Their suggestion suggests that they agree that a character with a letter property should be used for this purpose but since 02D1 MODIFIER LETTER HALF TRIANGULAR COLON is not suitable and there is no other alternative, the Irish National Body requests that A78F LATIN LETTER MIDDLE DOT be encoded without further delay. It is already three years since West's publication of his work on Tangut and 'Phags-pa linguistics has been put off due to this unnecessary impasse based on a superficial evaluation a glyph shape.

T2. **Page 56, Row 10C8: Old Hungarian.** With reference to §11 of ISO/IEC JTC1/SC2/WG2 N4268 "Consolidated proposal for encoding the Old Hungarian script in the UCS", and to ISO/IEC JTC1/SC2/WG2 N4225 "Preliminary Proposal for encoding pre-combined and extended Rovas numerals into the Rovas block in the SMP of the UCS", Ireland requests that the numbers from 10CF9..10CFD be shifted down to 10CFA..10CFE, filling the gap.

T3. **Page 88, Row 16B0: Pahawh Hmong.** With reference to ISO/IEC JTC1/SC2/WG2 N4298 "Additional evidence of use of Pahawh Hmong clan logographs", Ireland requests that one character, PAHAWH HMONG CLAN SIGN PHAB, be added to the PDAM, and that the characters be arranged in Pahawh Hmong alphabetical order. We give below a table showing the order requested, the order in the 1990 and 1995 sources discussed in N4298.

#	glyphs	name 1	name 2	1990 #	glyphs	1995 #	glyphs
1.	𖬆𖬲 𖬎𖬵	Tsheej	Cheng	15.	𖬆𖬲 𖬎𖬵	17.	𖬎𖬵
2.	𖬤𖭃	Yeeg	Yeng	1.	𖬤𖭃	19.	𖭃
3.	𖬊𖬰 𖬰𖬰	Lis	Lee	2.	𖬊𖬰	3.	𖬰𖬰
4.	𖬞𖬰	Lauj	Lor	3.	𖬞𖬰	6.	𖬞𖬰
5.	𖬆𖬲	Xyooj	Xiong	4.	𖬆𖬲	4.	𖬆𖬲
6.	𖬆𖬲 𖬲	Koo	Kong	16.	𖬆𖬲	16.	𖬲
7.	𖬇𖬰	Hawj	Her	5.	𖬇𖬰	9.	𖬇𖬰
8.	𖬃𖬰	Muas	Moua	6.	𖬃𖬰	7.	𖬃𖬰
9.	𖬘𖬰	Thoj	Thao	7.	𖬘𖬰	5.	𖬘𖬰
10.	𖬔𖬰	Tsab	Chang	8.	𖬔𖬰	2.	𖬔𖬰
11.	𖬔𖬰	Phab	Phang	19.	—	15.	𖬔𖬰
12.	𖬔𖬾	Khab	Khang	9.	𖬔𖬾	18.	𖬔𖬾
13.	𖬖𖬰	Ham	Hang	10.	𖬖𖬰	12.	𖬖𖬰
14.	𖬖𖬰	Vaj	Vang	11.	𖬖𖬰	1.	𖬖𖬰
15.	𖬖𖬰	Faj	Fang	17.	𖬖𖬰	14.	𖬖𖬰
16.	𖬎𖬰	Yaj	Yang	12.	𖬎𖬰	8.	𖬎𖬰
17.	𖬑𖬵	Tswb	Chue	18.	𖬑𖬵	13.	𖬑𖬵
18.	𖬑	Kwm	Kw	13.	𖬑	11.	𖬑
19.	𖬝𖬵	Vwj	Vue	14.	𖬝𖬵	10.	𖬝𖬵

T4. **Page 95, Row 1E8D: Mende Numbers.** With reference to ISO/IEC JTC1/SC2/WG2 N4311 "Proposal for Nine Mende Digit Characters" and to JTC1/SC2/WG2 N4167 "Revised proposal for encoding the Mende script in the SMP of the UCS", Ireland requests that the complete set of Mende numbers proposed in the latter document be encoded in the standard either in a separate block of Mende numbers from 1E8D0..1E91F, or as a part of the Mende block as proposed in N4167. In our view the arguments given for atomic encoding of the numbers far outweighs any advantage to encoding them otherwise. The two-column block on the ballot appears to assume a decomposed model for Mende numbers, which was not preferred by the proposers of Mende. If the full set of numbers is not to be encoded, then Ireland requests that Mende numbers be removed entirely from the PDAM. An incomplete system will not serve the users of the Mende script.

T5. **Page 99, Row 1F30: Miscellaneous Symbols and Pictographs.** Ireland requests the following change:

1F3CF RACE CAR
  Move character to 1F3CE.

T6. **Page 114, Row 1F68: Transport and Map Symbols.** Ireland requests the following changes:

1F6CD   TWO SHOPPING BAGS
  Change name to SHOPPING BAGS or SHOPPING; the postscript name is "shopping"
1F6D0   BELLHOP BELL
  Move character to 1F6CE
1F6E7   SMALL AIRPLANE
  Move character to 1F6E8
1F6EE   SATELLITE
  Move character to 1F6F0
1F6F2   ONCOMING FIRE ENGINE
  Move character to 1F6F1
1F6F4   DIESEL LOCOMOTIVE
  Move character to 1F6F2

T7. **Page 114, Row 1F68: Transport and Map Symbols.** Ireland requests two character additions, along with additional annotations to one character already on the ballot.

1F6E6   MILITARY AIRPLANE
          • military airport
1F6E7   UP-POINTING AIRPLANE
          • commercial airport
1F6E8   SMALL AIRPLANE
          • airfield

The postscript name for 1F6E8 SMALL AIRPLANE is "planesmall", indicating a kind of small aircraft. the Webdings glyph shown in perspective is hard to identify and too "pictorial". Further, we have found evidence for the SMALL AIRPLANE character used not only as a Webdings dingbat, but as a Transport and Map symbol used alongside MILITARY AIRPLANE and UP-POINTING AIRPLANE to indicate different kinds of airports.
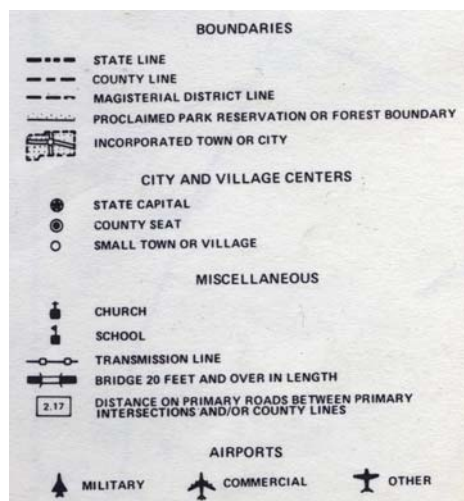
At the bottom of the legend here three airports, "military", "commercial" and "other" are indicated with three types of aircraft. The map from which this legend comes is a map of Northampton County published in 1989 by the Virginia Department of Transportation in cooperation with the U.S. Department of Transportation's Federal Highway Administration.

E1. **Page 12, Row 060: Arabic.** Ireland requests clarification of the note to 061C ARABIC LETTER MARK. It states "similar to RLM but with right-to-left Arabic". With right-to-left Arabic what?

E2. **Page 27, Row 1CD: Vedic Extensions.** Ireland requests that the two characters at 1CF8-1CF9 be represented with the correctly sized dotted circle.

E3. **Page 35, Row 200: General Punctuation.** Ireland requests some kind of annotation which will explain what the character name for 2069 "POP DIRECTIONAL ISOLATE" means.

E4. **Page 36, Row 20A: Currency Symbols.** With reference to typographic discussion at http://typophile.com/node/90604 and to the glyphs in ISO/IEC JTC1/SC2/WG2 N4308 "Proposal for one historic currency character, MARK SIGN", Ireland requests glyph changes for 20BA and 20BB, to the following:

E5. **Page 48, Row A9E: Myanmar Extended-B.** Ireland requests corrections to fix the winding errors in A9F2 and A9F5.

E6. **Page 49, Row A9E: Myanmar Extended-A.** Ireland requests corrections to fix the winding errors in AA7E and AA7F.

E7. **Page 52, Row 1019: Ancient Symbols.** While it is true that the character is different from 2CE8 COPTIC SYMBOL TAU RO, it nevertheless should harmonize in a reasonable way with a Greek font. Ireland requests a glyph change for 101A0, to one of the two glyphs below.

E8. **Page 59, Row 1100: Brahmi.** Ireland requests requests a correction to fix the winding error in 11034.

E9. **Page 99, Row 1F30: Miscellaneous Symbols and Pictographs.** Ireland requests the following changes:

1F3CB WEIGHT LIFTER
   Change glyph as shown below; it is more similar to the original Webdings glyph as far as we can determine.
1F3CD MOTORCYCLE
   Change glyph as shown below; the Webdings glyph shown in perspective is hard to identify and too "pictorial".

1F43F   CHIPMUNK

Change glyph as shown below; a white glyph is more similar to the other animal glyphs in this block.

T6. **Page 114, Row 1F68: Transport and Map Symbols.** Ireland requests the following changes:

1F6CD   TWO SHOPPING BAGS

Change glyph so it is simpler; the Wingdings glyphs look like fast-food french fries.

1F6E7   SMALL AIRPLANE

Change glyph to be up-pointing small-propeller aircraft seen from above (see T7 above). Note that the glyph proposed here is not identical to the one proposed for PDAM 2.

1F6F4   DIESEL LOCOMOTIVE

The postscript name for this character is "train". The editor made the following assertions in his disposition of comments: "*The glyph for [1F6F4] is a very generic train.*" Yes, so it is; but the postscript name for the Webdings character is the same very generic "train". "*The character at 1F6D2 represents clearly a long diesel engine train.*" We believe that the *character* represents a "train"; its glyph could be anything. "*Similarly to what is done for other train type (1F682..1F685), the glyph could be redone in a compatible way to represent such a train.*" While we have misgivings about the character identity, we have provided a glyph which is similar to the glyphs for 1FF684 HIGH-SPEED TRAIN and 1F685 HIGH-SPEED TRAIN WITH BULLET NOSE.

	16B0	16B1	16B2	16B3	16B4	16B5	16B6	16B7	16B8
0	16B00	16B10	16B20	16B30	16B40	16B50	16B60	16B70	16B80
1	16B01	16B11	16B21	16B31	16B41	16B51	16B61	16B71	16B81
2	16B02	16B12	16B22	16B32	16B42	16B52		16B72	16B82
3	16B03	16B13	16B23	16B33	16B43	16B53	16B63	16B73	16B83
4	16B04	16B14	16B24	16B34	16B44	16B54	16B64	16B74	16B84
5	16B05	16B15	16B25	16B35	16B45	16B55	16B65	16B75	16B85
6	16B06	16B16	16B26	16B36		16B56	16B66	16B76	16B86
7	16B07	16B17	16B27	16B37		16B57	16B67	16B77	16B87
8	16B08	16B18	16B28	16B38		16B58	16B68		16B88
9	16B09	16B19	16B29	16B39		16B59	16B69		16B89
A	16B0A	16B1A	16B2A	16B3A			16B6A		16B8A
B	16B0B	16B1B	16B2B	16B3B		16B5B	16B6B		16B8B
C	16B0C	16B1C	16B2C	16B3C		16B5C	16B6C		16B8C
D	16B0D	16B1D	16B2D	16B3D		16B5D	16B6D	16B7D	16B8D
E	16B0E	16B1E	16B2E	16B3E		16B5E	16B6E	16B7E	16B8E
F	16B0F	16B1F	16B2F	16B3F		16B5F	16B6F	16B7F	16B8F

The character names used for Pahawh Hmong vowel rimes and consonant onsets follow the Third Stage Reduced Version orthography. Annotations give the character names in the Second Stage Reduced Version orthography.

Vowel rimes

16B00	Ʋ	PAHAWH HMONG VOWEL KEEB
		= keem
16B01	Ⴈ	PAHAWH HMONG VOWEL KEEV
		= kee
16B02	Ⴠ	PAHAWH HMONG VOWEL KIB
		= kim
16B03	ᘗ	PAHAWH HMONG VOWEL KIV
		= ki
16B04	Ⴖ	PAHAWH HMONG VOWEL KAUB
		= kaum
16B05	Ø	PAHAWH HMONG VOWEL KAUV
		= kau
16B06	᠌	PAHAWH HMONG VOWEL KUB
		= kum
16B07	Π	PAHAWH HMONG VOWEL KUV
		= ke
16B08	ᴶ	PAHAWH HMONG VOWEL KEB
		= kem
16B09	Ⴌ	PAHAWH HMONG VOWEL KEV
16B0A	Ⴄ	PAHAWH HMONG VOWEL KAIB
		= kaim
16B0B	ᛁ	PAHAWH HMONG VOWEL KAIV
		= kai
16B0C	Ⴁ	PAHAWH HMONG VOWEL KOOB
16B0D	ᴵ	PAHAWH HMONG VOWEL KOOV
16B0E	Π	PAHAWH HMONG VOWEL KAWB
16B0F	Ⴖ	PAHAWH HMONG VOWEL KAWV
		= kaw
16B10	ᛁ	PAHAWH HMONG VOWEL KUAB
		= kuam
16B11	Ⴍ	PAHAWH HMONG VOWEL KUAV
		= kua
16B12	Ⴍ	PAHAWH HMONG VOWEL KOB
		= kom
16B13	Ⴑ	PAHAWH HMONG VOWEL KOV
		= kog
16B14	Ⴑ	PAHAWH HMONG VOWEL KIAB
16B15	Ⴄ	PAHAWH HMONG VOWEL KIAV
		= kia
16B16	ᴈ	PAHAWH HMONG VOWEL KAB
		= kam
16B17	Ⴎ	PAHAWH HMONG VOWEL KAV
16B18	Ⴓ	PAHAWH HMONG VOWEL KWB
		= kwm
16B19	Ⴑ	PAHAWH HMONG VOWEL KWV
16B1A	ᴈ	PAHAWH HMONG VOWEL KAAB
		= kaam
16B1B	Ⴎ	PAHAWH HMONG VOWEL KAAV

Consonant onsets

16B1C	Ⴚ	PAHAWH HMONG CONSONANT VAU
16B1D	Ⴑ	PAHAWH HMONG CONSONANT NTSAU
16B1E	Ⴖ	PAHAWH HMONG CONSONANT LAU
16B1F	Ⴇ	PAHAWH HMONG CONSONANT HAU
16B20	Ⴏ	PAHAWH HMONG CONSONANT NLAU
16B21	Ⴈ	PAHAWH HMONG CONSONANT RAU
16B22	Ⴖ	PAHAWH HMONG CONSONANT NKAU
16B23	E	PAHAWH HMONG CONSONANT QHAU
16B24	Ⴖ	PAHAWH HMONG CONSONANT YAU
16B25	Ⴁ	PAHAWH HMONG CONSONANT HLAU
16B26	Ⴖ	PAHAWH HMONG CONSONANT MAU
16B27	Ⴈ	PAHAWH HMONG CONSONANT CHAU
16B28	Ⴈ	PAHAWH HMONG CONSONANT NCHAU
16B29	Ⴈ	PAHAWH HMONG CONSONANT HNAU
16B2A	Ⴖ	PAHAWH HMONG CONSONANT PLHAU
16B2B	M	PAHAWH HMONG CONSONANT NTHAU
16B2C	Ⴎ	PAHAWH HMONG CONSONANT NAU
16B2D	Ⴛ	PAHAWH HMONG CONSONANT AU
16B2E	A	PAHAWH HMONG CONSONANT XAU
16B2F	V	PAHAWH HMONG CONSONANT CAU

Combining diacritical marks

16B30	◌	PAHAWH HMONG MARK CIM TUB
16B31	◌	PAHAWH HMONG MARK CIM SO
16B32	◌	PAHAWH HMONG MARK CIM KES
16B33	◌	PAHAWH HMONG MARK CIM KHAV
16B34	◌	PAHAWH HMONG MARK CIM SUAM
16B35	◌	PAHAWH HMONG MARK CIM HOM
16B36	◌	PAHAWH HMONG MARK CIM TAUM

Punctuation

16B37	Ⴘ	PAHAWH HMONG SIGN VOS THOM
		= question mark
16B38	Ⴓ	PAHAWH HMONG SIGN VOS TSHAB CEEB
		= exclamation mark
16B39	ᴣ	PAHAWH HMONG SIGN CIM CHEEM
		= comma
16B3A	Ⴆ	PAHAWH HMONG SIGN VOS THIAB
		= ampersand
16B3B	ଃ	PAHAWH HMONG SIGN VOS FEEM
		= percent sign
16B3C	ᗄ	PAHAWH HMONG SIGN XYEEM NTXIV
		= plus sign
16B3D	⊦	PAHAWH HMONG SIGN XYEEM RHO
		= minus sign
16B3E	Ⴝ	PAHAWH HMONG SIGN XYEEM TOV
		= multiplication sign
16B3F	⊦	PAHAWH HMONG SIGN XYEEM FAIB
		= division sign
16B40	∶	PAHAWH HMONG SIGN VOS SEEV
		= chanting intonation
16B41	ᛉ	PAHAWH HMONG SIGN MEEJ SUAB
		= foreign pronunciation
16B42	Ⴙ	PAHAWH HMONG SIGN VOS NRUA
		= reduplication
16B43	⅏	PAHAWH HMONG SIGN IB YAM
		= replication, ditto
16B44	Ⴒ	PAHAWH HMONG SIGN XAUS
		• used to complete a section
16B45	ᵱ	PAHAWH HMONG SIGN CIM TSOV ROG
		• used to indicate military topics

Digits

16B50	I	PAHAWH HMONG DIGIT ZERO
		• some users prefer a circular glyph for this character
16B51	Ⴁ	PAHAWH HMONG DIGIT ONE

16B52　Ʒ　PAHAWH HMONG DIGIT TWO
16B53　ⅿ　PAHAWH HMONG DIGIT THREE
16B54　Ꝺ　PAHAWH HMONG DIGIT FOUR
16B55　ƺ　PAHAWH HMONG DIGIT FIVE
16B56　Ϲ　PAHAWH HMONG DIGIT SIX
16B57　Ʀ　PAHAWH HMONG DIGIT SEVEN
16B58　Ҟ　PAHAWH HMONG DIGIT EIGHT
16B59　Ҝ　PAHAWH HMONG DIGIT NINE

Numbers

16B5B　ႰႮ　PAHAWH HMONG NUMBER TENS
　　　　= caum
　　　　• some users prefer a vertical bar glyph for this
　　　　character
16B5C　Ӄ　PAHAWH HMONG NUMBER HUNDREDS
　　　　= pua
16B5D　Ӝ　PAHAWH HMONG NUMBER TEN
　　　　THOUSANDS
　　　　= vam
16B5E　Ⅱ　PAHAWH HMONG NUMBER MILLIONS
　　　　= neev
16B5F　Ѵ　PAHAWH HMONG NUMBER HUNDRED
　　　　MILLIONS
　　　　= taw
16B60　ℳ　PAHAWH HMONG NUMBER TEN
　　　　BILLIONS
　　　　= ten thousand millions
　　　　= ruav
16B61　ⅠƑ　PAHAWH HMONG NUMBER TRILLIONS
　　　　= billions
　　　　= tas

Logographs

16B63　Ϋ　PAHAWH HMONG SIGN VOS LUB
　　　　= classifier
16B64　Ƽ　PAHAWH HMONG SIGN XYOO
　　　　= year
16B65　Ẇ　PAHAWH HMONG SIGN HLI
　　　　= month
16B66　ⓝ　PAHAWH HMONG SIGN THIRD-STAGE HLI
　　　　= month
16B67　Ю　PAHAWH HMONG SIGN ZWJ THAJ
　　　　= date
16B68　Ⅰ　PAHAWH HMONG SIGN HNUB
　　　　= day
16B69　⚊　PAHAWH HMONG SIGN NQIG
　　　　= waning moon
16B6A　⚋　PAHAWH HMONG SIGN XIAB
　　　　= waxing moon
16B6B　†　PAHAWH HMONG SIGN NTUJ
　　　　= season
16B6C　⊥　PAHAWH HMONG SIGN AV
　　　　= earth
16B6D　И　PAHAWH HMONG SIGN TXHEEJ CEEV
　　　　= urgent
16B6E　Ⅱ　PAHAWH HMONG SIGN MEEJ TSEEB
　　　　= facts
16B6F　Ⱔ　PAHAWH HMONG SIGN TAU
　　　　= received
16B70　⊢　PAHAWH HMONG SIGN LOS
　　　　= come
16B71　⊣　PAHAWH HMONG SIGN MUS
　　　　= go

16B72　⊫　PAHAWH HMONG SIGN CIM HAIS LUS
　　　　NTOG NTOG
　　　　= smooth
16B73　Ⴕ　PAHAWH HMONG SIGN CIM CUAM
　　　　TSHOOJ
　　　　= fraction
16B74　Ⅼ⃛　PAHAWH HMONG SIGN CIM TXWV
　　　　= do not open
16B75　ℨ　PAHAWH HMONG SIGN CIM TXWV CHWV
　　　　= do not touch
16B76　Ⴊ　PAHAWH HMONG SIGN CIM PUB DAWB
　　　　= give freely
16B77　Ж　PAHAWH HMONG SIGN CIM NRES TOS
　　　　= stop

Logographs for clan names

16B7D	ⴳ	PAHAWH HMONG CLAN SIGN TSHEEJ = Cheng
16B7E	Ꞙ	PAHAWH HMONG CLAN SIGN YEEG = Yeng
16B7F	Ӿ	PAHAWH HMONG CLAN SIGN LIS = Lee
16B80	▣	PAHAWH HMONG CLAN SIGN LAUJ = Lor
16B81	※	PAHAWH HMONG CLAN SIGN XYOOJ = Xiong
16B82	ⴳ	PAHAWH HMONG CLAN SIGN KOO = Kong
16B83	ℼ	PAHAWH HMONG CLAN SIGN HAWJ = Her
16B84	ⅎ	PAHAWH HMONG CLAN SIGN MUAS = Moua
16B85	ⅲ	PAHAWH HMONG CLAN SIGN THOJ = Thao
16B86	Ⴥ	PAHAWH HMONG CLAN SIGN TSAB = Chang
16B87	Ӂ	PAHAWH HMONG CLAN SIGN PHAB = Phang
16B88	⅏	PAHAWH HMONG CLAN SIGN KHAB = Khang
16B89	Ⅲ	PAHAWH HMONG CLAN SIGN HAM = Hang
16B8A	ⴳ	PAHAWH HMONG CLAN SIGN VAJ = Vang
16B8B	ⴳ̇	PAHAWH HMONG CLAN SIGN FAJ = Fang
16B8C	⸙	PAHAWH HMONG CLAN SIGN YAJ = Yang
16B8D	Ħ	PAHAWH HMONG CLAN SIGN TSWB = Chue
16B8E	Ħ̇	PAHAWH HMONG CLAN SIGN KWM = Kw
16B8F	¥	PAHAWH HMONG CLAN SIGN VWJ = Vue

	1E80	1E81	1E82	1E83	1E84	1E85	1E86	1E87	1E88
0	1E800	1E810	1E820	1E830	1E840	1E850	1E860	1E870	1E880
1	1E801	1E811	1E821	1E831	1E841	1E851	1E861	1E871	1E881
2	1E802	1E812	1E822	1E832	1E842	1E852	1E862	1E872	1E882
3	1E803	1E813	1E823	1E833	1E843	1E853	1E863	1E873	1E883
4	1E804	1E814	1E824	1E834	1E844	1E854	1E864	1E874	1E884
5	1E805	1E815	1E825	1E835	1E845	1E855	1E865	1E875	1E885
6	1E806	1E816	1E826	1E836	1E846	1E856	1E866	1E876	1E886
7	1E807	1E817	1E827	1E837	1E847	1E857	1E867	1E877	1E887
8	1E808	1E818	1E828	1E838	1E848	1E858	1E868	1E878	1E888
9	1E809	1E819	1E829	1E839	1E849	1E859	1E869	1E879	1E889
A	1E80A	1E81A	1E82A	1E83A	1E84A	1E85A	1E86A	1E87A	1E88A
B	1E80B	1E81B	1E82B	1E83B	1E84B	1E85B	1E86B	1E87B	1E88B
C	1E80C	1E81C	1E82C	1E83C	1E84C	1E85C	1E86C	1E87C	1E88C
D	1E80D	1E81D	1E82D	1E83D	1E84D	1E85D	1E86D	1E87D	1E88D
E	1E80E	1E81E	1E82E	1E83E	1E84E	1E85E	1E86E	1E87E	1E88E
F	1E80F	1E81F	1E82F	1E83F	1E84F	1E85F	1E86F	1E87F	1E88F

	1E89	1E8A	1E8B	1E8C	1E8D	1E8E	1E8F	1E90	1E91
0	1E890	1E8A0	1E8B0	1E8C0		1E8E0	1E8F0	1E900	1E910
1	1E891	1E8A1	1E8B1	1E8C1	1E8D1	1E8E1	1E8F1	1E901	1E911
2	1E892	1E8A2	1E8B2	1E8C2	1E8D2	1E8E2	1E8F2	1E902	1E912
3	1E893	1E8A3	1E8B3	1E8C3	1E8D3	1E8E3	1E8F3	1E903	1E913
4	1E894	1E8A4	1E8B4	1E8C4	1E8D4	1E8E4	1E8F4	1E904	1E914
5	1E895	1E8A5	1E8B5		1E8D5	1E8E5	1E8F5	1E905	1E915
6	1E896	1E8A6	1E8B6		1E8D6	1E8E6	1E8F6	1E906	1E916
7	1E897	1E8A7	1E8B7		1E8D7	1E8E7	1E8F7	1E907	1E917
8	1E898	1E8A8	1E8B8		1E8D8	1E8E8	1E8F8	1E908	1E918
9	1E899	1E8A9	1E8B9		1E8D9	1E8E9	1E8F9	1E909	
A	1E89A	1E8AA	1E8BA		1E8DA	1E8EA	1E8FA	1E90A	
B	1E89B	1E8AB	1E8BB		1E8DB	1E8EB	1E8FB	1E90B	
C	1E89C	1E8AC	1E8BC		1E8DC	1E8EC	1E8FC	1E90C	
D	1E89D	1E8AD	1E8BD		1E8DD	1E8ED	1E8FD	1E90D	
E	1E89E	1E8AE	1E8BE		1E8DE	1E8EE	1E8FE	1E90E	
F	1E89F	1E8AF	1E8BF		1E8DF	1E8EF	1E8FF	1E90F	

Syllables in k-

1E800	7	MENDE SYLLABLE M001 KI
1E801	7	MENDE SYLLABLE M002 KA
1E802	7	MENDE SYLLABLE M003 KU
1E803	7	MENDE SYLLABLE M065 KEE
1E804	⊰⊸	MENDE SYLLABLE M095 KE
1E805	⊶	MENDE SYLLABLE M076 KOO
1E806	9	MENDE SYLLABLE M048 KO
1E807	⅋	MENDE SYLLABLE M179 KUA
		= Dalby M177

Syllables in w-

1E808	⊃	MENDE SYLLABLE M004 WI
1E809	⊋	MENDE SYLLABLE M005 WA
1E80A	⊋	MENDE SYLLABLE M006 WU
1E80B	⊬	MENDE SYLLABLE M126 WEE
1E80C	⊰	MENDE SYLLABLE M118 WE
1E80D	⊧	MENDE SYLLABLE M114 WOO
1E80E	⊋	MENDE SYLLABLE M045 WO
1E80F	⊁	MENDE SYLLABLE M194 WUI
1E810	⊋	MENDE SYLLABLE M143 WEI

Syllables in wv-

1E811	⊶	MENDE SYLLABLE M061 WVI
1E812	⊋	MENDE SYLLABLE M049 WVA
1E813	Я	MENDE SYLLABLE M139 WVE

Syllables in m-

1E814	⊁	MENDE SYLLABLE M007 MIN
1E815	⊁	MENDE SYLLABLE M008 MAN
1E816	⊁	MENDE SYLLABLE M009 MUN
1E817	⊁	MENDE SYLLABLE M059 MEN
1E818	⊖	MENDE SYLLABLE M094 MON
1E819	R	MENDE SYLLABLE M154 MUAN
1E81A	∟	MENDE SYLLABLE M189 MUEN

Syllables in b-

1E81B	⅋	MENDE SYLLABLE M010 BI
1E81C	⅋	MENDE SYLLABLE M011 BA
1E81D	⅋	MENDE SYLLABLE M012 BU
1E81E	⅃	MENDE SYLLABLE M150 BEE
1E81F	Λ	MENDE SYLLABLE M097 BE
1E820	⊹	MENDE SYLLABLE M103 BOO
1E821	H	MENDE SYLLABLE M138 BO

Vowels

1E822	I	MENDE SYLLABLE M013 I
1E823	⊢	MENDE SYLLABLE M014 A
1E824	⊧	MENDE SYLLABLE M015 U
1E825	⊤	MENDE SYLLABLE M163 EE
1E826	i	MENDE SYLLABLE M100 E
1E827	O	MENDE SYLLABLE M165 OO
1E828	⊰C	MENDE SYLLABLE M147 O
1E829	↓	MENDE SYLLABLE M137 EI
1E82A	⅋	MENDE SYLLABLE M131 IN
1E82B	!	MENDE SYLLABLE M135 IN
		• used for the negative particle
1E82C	※	MENDE SYLLABLE M195 AN
		• Dalby s M195 HO has different shape and value

1E82D	⋏	MENDE SYLLABLE M178 EN
		= Dalby M182

Syllables in s-

1E82E	|||	MENDE SYLLABLE M019 SI
1E82F	⊞	MENDE SYLLABLE M020 SA
1E830	⊞	MENDE SYLLABLE M021 SU
1E831	⊞∘	MENDE SYLLABLE M162 SEE
1E832	⊥	MENDE SYLLABLE M116 SE
1E833	⊒	MENDE SYLLABLE M136 SOO
1E834	⊡	MENDE SYLLABLE M079 SO
1E835	⅋	MENDE SYLLABLE M196 SIA
		• not in Dalby or in Mansaray

Syllables in l-

1E836	⇌	MENDE SYLLABLE M025 LI
		= Dalby and Mansaray M022
1E837	⇌	MENDE SYLLABLE M026 LA
		= Dalby and Mansaray M023
1E838	⇌	MENDE SYLLABLE M027 LU
		= Dalby and Mansaray M024
1E839	Ψ	MENDE SYLLABLE M084 LEE
1E83A	⊑	MENDE SYLLABLE M073 LE
1E83B	⅋	MENDE SYLLABLE M054 LOO
1E83C	⅋	MENDE SYLLABLE M153 LO
1E83D	⊶	MENDE SYLLABLE M110 LONG LE

Syllables in d-

1E83E	⊏⊐	MENDE SYLLABLE M016 DI
1E83F	⊡	MENDE SYLLABLE M017 DA
1E840	⊡	MENDE SYLLABLE M018 DU
1E841	⊥	MENDE SYLLABLE M089 DEE
1E842	↓	MENDE SYLLABLE M180 DOO
		= Dalby M178
1E843	⊸∘	MENDE SYLLABLE M181 DO
		= Dalby M179

Syllables in t-

1E844	⌠	MENDE SYLLABLE M022 TI
		= Dalby and Mansaray M025
1E845	⌠	MENDE SYLLABLE M023 TA
		= Dalby and Mansaray M026
1E846	⌠	MENDE SYLLABLE M024 TU
		= Dalby and Mansaray M027
1E847	⅋	MENDE SYLLABLE M091 TEE
1E848	⅋	MENDE SYLLABLE M055 TE
1E849	Ⅹ	MENDE SYLLABLE M104 TOO
1E84A	⊨	MENDE SYLLABLE M069 TO

Syllables in j-

1E84B	Ɛ	MENDE SYLLABLE M028 JI
		= Mansaray M034
1E84C	Ɛ́	MENDE SYLLABLE M029 JA
		= Mansaray M035
1E84D	Ɛ̆	MENDE SYLLABLE M030 JU
		= Mansaray M036
1E84E	⅌	MENDE SYLLABLE M157 JEE
1E84F	⊼	MENDE SYLLABLE M113 JE
1E850	⊽	MENDE SYLLABLE M160 JOO
1E851	≧	MENDE SYLLABLE M063 JO
1E852	⊹	MENDE SYLLABLE M175 LONG JO

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Syllables in y-

1E853　Ψ　MENDE SYLLABLE M031 YI
1E854　Ψ　MENDE SYLLABLE M032 YA
1E855　Ψ　MENDE SYLLABLE M033 YU
1E856　⊕　MENDE SYLLABLE M109 YEE
1E857　⩽　MENDE SYLLABLE M080 YE
1E858　ᠥ　MENDE SYLLABLE M141 YOO
1E859　⩲　MENDE SYLLABLE M121 YO

Syllables in f-

1E85A　◎　MENDE SYLLABLE M034 FI
　　　　　　= Mansaray M028
1E85B　◉　MENDE SYLLABLE M035 FA
　　　　　　= Mansaray M029
1E85C　◉　MENDE SYLLABLE M036 FU
　　　　　　= Mansaray M030
1E85D　◎　MENDE SYLLABLE M078 FEE
1E85E　⼲　MENDE SYLLABLE M075 FE
1E85F　⽧　MENDE SYLLABLE M133 FOO
1E860　⧓　MENDE SYLLABLE M088 FO
1E861　⼲⚬　MENDE SYLLABLE M197 FUA
　　　　　　• not in Dalby or in Mansaray
1E862　⸹　MENDE SYLLABLE M101 FAN

Syllables in n-

1E863　≻　MENDE SYLLABLE M037 NIN
1E864　≻̇　MENDE SYLLABLE M038 NAN
1E865　≻̈　MENDE SYLLABLE M039 NUN
1E866　≺　MENDE SYLLABLE M117 NEN
1E867　Ⅱ̣　MENDE SYLLABLE M169 NON

Syllables in h-

1E868　ꝗ̈　MENDE SYLLABLE M176 HI
1E869　⊙̇　MENDE SYLLABLE M041 HA
1E86A　⊢　MENDE SYLLABLE M186 HU
1E86B　ᠬ　MENDE SYLLABLE M040 HEE
1E86C　▦　MENDE SYLLABLE M096 HE
1E86D　⊙̈　MENDE SYLLABLE M042 HOO
1E86E　⫶　MENDE SYLLABLE M140 HO
1E86F　ᴖ　MENDE SYLLABLE M083 HEEI
1E870　ᦞ　MENDE SYLLABLE M128 HOOU
1E871　ȣ　MENDE SYLLABLE M053 HIN
1E872　Ⅹ　MENDE SYLLABLE M130 HAN
1E873　⅄　MENDE SYLLABLE M087 HUN
1E874　⼼　MENDE SYLLABLE M052 HEN
1E875　ⴓ　MENDE SYLLABLE M193 HON
　　　　　　• Dalby s M193 NGGEE has different shape and value
1E876　⧂　MENDE SYLLABLE M046 HUAN

Syllables in ngg-

1E877　⅂̃　MENDE SYLLABLE M090 NGGI
1E878　⊥　MENDE SYLLABLE M043 NGGA
1E879　ɋ　MENDE SYLLABLE M082 NGGU
1E87A　⅄̃　MENDE SYLLABLE M115 NGGEE
1E87B　⋶　MENDE SYLLABLE M146 NGGE
1E87C　⊶⊦　MENDE SYLLABLE M156 NGGOO
1E87D　⁹　MENDE SYLLABLE M120 NGGO
1E87E　⅄̃　MENDE SYLLABLE M159 NGGAA
1E87F　⊶⚬　MENDE SYLLABLE M127 NGGUA
1E880　⊶⧺　MENDE SYLLABLE M086 LONG NGGE

1E881　Ð　MENDE SYLLABLE M106 LONG NGGOO
1E882　ɦ　MENDE SYLLABLE M183 LONG NGGO

Syllables in g-

1E883　⅁̃　MENDE SYLLABLE M155 GI
1E884　⊥̣　MENDE SYLLABLE M111 GA
1E885　ᠪ̇　MENDE SYLLABLE M168 GU
1E886　ℤ　MENDE SYLLABLE M190 GEE
1E887　⅏̇　MENDE SYLLABLE M166 GUEI
1E888　⛭　MENDE SYLLABLE M167 GUAN

Syllables in ng-

1E889　ɦ　MENDE SYLLABLE M184 NGEN
1E88A　◇　MENDE SYLLABLE M057 NGON
1E88B　⊘　MENDE SYLLABLE M177 NGUAN
　　　　　　= Dalby M181

Syllables in p-

1E88C　ꚱ　MENDE SYLLABLE M068 PI
1E88D　Ꮩ̇　MENDE SYLLABLE M099 PA
1E88E　ꙟ̇　MENDE SYLLABLE M050 PU
1E88F　Ꭺ　MENDE SYLLABLE M081 PEE
1E890　Я　MENDE SYLLABLE M051 PE
1E891　ⴘ　MENDE SYLLABLE M102 POO
1E892　⊏̣　MENDE SYLLABLE M066 PO

Syllables in mb-

1E893　⊕　MENDE SYLLABLE M145 MBI
1E894　⟩̇　MENDE SYLLABLE M062 MBA
1E895　ꭼ　MENDE SYLLABLE M122 MBU
1E896　ꜱ̇　MENDE SYLLABLE M047 MBEE
1E897　⋀　MENDE SYLLABLE M188 MBEE
1E898　≻　MENDE SYLLABLE M072 MBE
1E899　ꜳ̇　MENDE SYLLABLE M172 MBOO
1E89A　⊢̈　MENDE SYLLABLE M174 MBO
1E89B　ꝫ̃　MENDE SYLLABLE M187 MBUU
1E89C　⊔　MENDE SYLLABLE M161 LONG MBE
1E89D　⊏⊐　MENDE SYLLABLE M105 LONG MBOO
1E89E　Ꙟ̣　MENDE SYLLABLE M142 LONG MBO

Syllables in kp-

1E89F　⚬⊪⚬　MENDE SYLLABLE M132 KPI
1E8A0　⋎⋉　MENDE SYLLABLE M092 KPA
1E8A1　⊕　MENDE SYLLABLE M074 KPU
1E8A2　⚬⊦⚬　MENDE SYLLABLE M044 KPEE
1E8A3　ⵝ　MENDE SYLLABLE M108 KPE
1E8A4　ꝑ̈　MENDE SYLLABLE M112 KPOO
1E8A5　⅁°　MENDE SYLLABLE M158 KPO
　　　　　　→ 1313D 𓄽 egyptian hieroglyph f052
　　　　　　→ 1F4A9 💩 pile of poo

Syllables in gb-

1E8A6　🞩　MENDE SYLLABLE M124 GBI
1E8A7　ꝑ̇　MENDE SYLLABLE M056 GBA
1E8A8　⊗　MENDE SYLLABLE M148 GBU
1E8A9　🞨　MENDE SYLLABLE M093 GBEE
1E8AA　ꞁ　MENDE SYLLABLE M107 GBE
1E8AB　⊕　MENDE SYLLABLE M071 GBOO
1E8AC　ⴔ°　MENDE SYLLABLE M070 GBO

Syllable in r-

1E8AD ꢭ MENDE SYLLABLE M171 RA

Syllables in nd-

1E8AE ꢮ MENDE SYLLABLE M123 NDI
1E8AF ꢯ MENDE SYLLABLE M129 NDA
1E8B0 ꢰ MENDE SYLLABLE M125 NDU
1E8B1 ꢱ MENDE SYLLABLE M191 NDEE
1E8B2 ꢲ MENDE SYLLABLE M119 NDE
1E8B3 ꢳ MENDE SYLLABLE M067 NDOO
1E8B4 ꢴ MENDE SYLLABLE M064 NDO

Syllables in nj-

1E8B5 ꢵ MENDE SYLLABLE M152 NJA
1E8B6 ꢶ MENDE SYLLABLE M192 NJU
1E8B7 ꢷ MENDE SYLLABLE M149 NJEE
1E8B8 ꢸ MENDE SYLLABLE M134 NJOO

Syllables in v-

1E8B9 ꢹ MENDE SYLLABLE M182 VI
           = Dalby M180
1E8BA ꢺ MENDE SYLLABLE M185 VA
1E8BB ꢻ MENDE SYLLABLE M151 VU
1E8BC ꢼ MENDE SYLLABLE M173 VEE
1E8BD ꢽ MENDE SYLLABLE M085 VE
1E8BE ꢾ MENDE SYLLABLE M144 VOO
1E8BF ꢿ MENDE SYLLABLE M077 VO

Syllables in ny-

1E8C0 ꣀ MENDE SYLLABLE M164 NYIN
1E8C1 ꣁ MENDE SYLLABLE M058 NYAN
1E8C2 ꣂ MENDE SYLLABLE M170 NYUN
1E8C3 ꣃ MENDE SYLLABLE M098 NYEN
1E8C4 ꣄ MENDE SYLLABLE M060 NYON

Digits

1E8D1 ꣑ MENDE DIGIT ONE
1E8D2 ꣒ MENDE DIGIT TWO
1E8D3 ꣓ MENDE DIGIT THREE
1E8D4 ꣔ MENDE DIGIT FOUR
1E8D5 ꣕ MENDE DIGIT FIVE
1E8D6 ꣖ MENDE DIGIT SIX
1E8D7 ꣗ MENDE DIGIT SEVEN
1E8D8 ꣘ MENDE DIGIT EIGHT
1E8D9 ꣙ MENDE DIGIT NINE

Teens

1E8DA ꣚ MENDE NUMBER TEN
1E8DB ꣛ MENDE NUMBER ELEVEN
1E8DC ꣜ MENDE NUMBER TWELVE
1E8DD ꣝ MENDE NUMBER THIRTEEN
1E8DE ꣞ MENDE NUMBER FOURTEEN
1E8DF ꣟ MENDE NUMBER FIFTEEN
1E8E0 ꣠ MENDE NUMBER SIXTEEN
1E8E1 ꣡ MENDE NUMBER SEVENTEEN
1E8E2 ꣢ MENDE NUMBER EIGHTEEN
1E8E3 ꣣ MENDE NUMBER NINETEEN

Tens

1E8E4 ꣤ MENDE NUMBER TWENTY
1E8E5 ꣥ MENDE NUMBER THIRTY

1E8E6 ꣦ MENDE NUMBER FORTY
1E8E7 ꣧ MENDE NUMBER FIFTY
1E8E8 ꣨ MENDE NUMBER SIXTY
1E8E9 ꣩ MENDE NUMBER SEVENTY
1E8EA ꣪ MENDE NUMBER EIGHTY
1E8EB ꣫ MENDE NUMBER NINETY

Hundreds

1E8EC ꣬ MENDE NUMBER ONE HUNDRED
1E8ED ꣭ MENDE NUMBER TWO HUNDRED
1E8EE ꣮ MENDE NUMBER THREE HUNDRED
1E8EF ꣯ MENDE NUMBER FOUR HUNDRED
1E8F0 ꣰ MENDE NUMBER FIVE HUNDRED
1E8F1 ꣱ MENDE NUMBER SIX HUNDRED
1E8F2 ꣲ MENDE NUMBER SEVEN HUNDRED
1E8F3 ꣳ MENDE NUMBER EIGHT HUNDRED
1E8F4 ꣴ MENDE NUMBER NINE HUNDRED

Thousands

1E8F5 ꣵ MENDE NUMBER ONE THOUSAND
1E8F6 ꣶ MENDE NUMBER TWO THOUSAND
1E8F7 ꣷ MENDE NUMBER THREE THOUSAND
1E8F8 ꣸ MENDE NUMBER FOUR THOUSAND
1E8F9 ꣹ MENDE NUMBER FIVE THOUSAND
1E8FA ꣺ MENDE NUMBER SIX THOUSAND
1E8FB ꣻ MENDE NUMBER SEVEN THOUSAND
1E8FC ꣼ MENDE NUMBER EIGHT THOUSAND
1E8FD ꣽ MENDE NUMBER NINE THOUSAND

Ten thousands

1E8FE ꣾ MENDE NUMBER TEN THOUSAND
1E8FF ꣿ MENDE NUMBER TWENTY THOUSAND
1E900   MENDE NUMBER THIRTY THOUSAND
1E901   MENDE NUMBER FORTY THOUSAND
1E902   MENDE NUMBER FIFTY THOUSAND
1E903   MENDE NUMBER SIXTY THOUSAND
1E904   MENDE NUMBER SEVENTY THOUSAND
1E905   MENDE NUMBER EIGHTY THOUSAND
1E906   MENDE NUMBER NINETY THOUSAND

Hundred thousands

1E907   MENDE NUMBER ONE HUNDRED
          THOUSAND
1E908   MENDE NUMBER TWO HUNDRED
          THOUSAND
1E909   MENDE NUMBER THREE HUNDRED
          THOUSAND
1E90A   MENDE NUMBER FOUR HUNDRED
          THOUSAND
1E90B   MENDE NUMBER FIVE HUNDRED
          THOUSAND
1E90C   MENDE NUMBER SIX HUNDRED
          THOUSAND
1E90D   MENDE NUMBER SEVEN HUNDRED
          THOUSAND
1E90E   MENDE NUMBER EIGHT HUNDRED
          THOUSAND
1E90F   MENDE NUMBER NINE HUNDRED
          THOUSAND

Millions

1E910   MENDE NUMBER ONE MILLION

1E911	𖤑	MENDE NUMBER TWO MILLION
1E912	𖤒	MENDE NUMBER THREE MILLION
1E913	𖤓	MENDE NUMBER FOUR MILLION
1E914	𖤔	MENDE NUMBER FIVE MILLION
1E915	𖤕	MENDE NUMBER SIX MILLION
1E916	𖤖	MENDE NUMBER SEVEN MILLION
1E917	𖤗	MENDE NUMBER EIGHT MILLION
1E918	𖤘	MENDE NUMBER NINE MILLION

	1F30	1F31	1F32	1F33	1F34	1F35	1F36	1F37	1F38	1F39	1F3A	1F3B	1F3C	1F3D	1F3E	1F3F
0																
1																
2																
3																
4																
5													1F3C5			
6										1F396						
7														1F3D7		1F3F7
8										1F398				1F3D8		
9										1F399				1F3D9		
A										1F39A				1F3DA		
B										1F39B			1F3CB	1F3DB		
C													1F3CC	1F3DC		
D								1F37D					1F3CD	1F3DD		
E										1F39E			1F3CE	1F3DE		
F										1F39F				1F3DF		

	1F40	1F41	1F42	1F43	1F44	1F45	1F46	1F47	1F48	1F49	1F4A	1F4B	1F4C	1F4D	1F4E	1F4F
0																
1																
2																
3																
4																
5																
6																
7																
8																📸 1F4F8
9																
A																📺 1F4FA
B																
C																
D																📽 1F4FD
E																📻 1F4FE
F			🐿 1F43F													

	1F50	1F51	1F52	1F53	1F54	1F55	1F56	1F57	1F58	1F59	1F5A	1F5B	1F5C	1F5D	1F5E	1F5F
0								1F570	1F580						1F5E0	1F5F0
1									1F581						1F5E1	1F5F1
2								1F572					1F5C2	1F5D2	1F5E2	1F5F2
3													1F5C3	1F5D3	1F5E3	1F5F3
4								1F574		1F594					1F5E4	
5								1F575		1F595					1F5E5	
6								1F576		1F596					1F5E6	
7															1F5E7	
8									1F588						1F5E8	
9								1F579							1F5E9	
A															1F5EA	
B							1F56B					1F5BB			1F5EB	
C							1F56C	1F57C				1F5BC		1F5DC	1F5EC	
D												1F5BD		1F5DD	1F5ED	
E												1F5BE		1F5DE	1F5EE	
F														1F5DF	1F5EF	

Accommodation symbols

1F37D   FORK AND KNIFE WITH PLATE
    = dining
    = w-0228
    → 1F374   fork and knife

Celebration symbols

1F396   MILITARY MEDAL
    = w-0038

Musical symbols

1F398   MUSICAL KEYBOARD WITH JACKS
    = midi, midi keyboard
    = w-0176
    → 1F3B9   musical keyboard
1F399   STUDIO MICROPHONE
    = microphone
    = w-0177
    → 1F3A4   microphone
1F39A   LEVEL SLIDER
    = level control
    = w-0188
1F39B   CONTROL KNOBS
    = audio control
    = w-0189

Entertainment symbols

1F39E   FILM FRAMES
    = film clip
    = w-0180
    → 1F3A5   movie camera
1F39F   ADMISSION TICKETS
    = ticket
    = w-0182
    → 1F3AB   ticket

Sport symbols

1F3C5   SPORTS MEDAL
1F3C6   <reserved>
1F3C7   <reserved>
1F3C8   <reserved>
1F3C9   <reserved>
1F3CA   <reserved>
1F3CB   WEIGHT LIFTER
    = health
    = w-0134
1F3CC   GOLFER
    = w-0137
1F3CD   MOTORCYCLE
    = w-0140
1F3CE   RACE CAR
    = w-0141

Building and map symbols

1F3D7   BUILDING CONSTRUCTION
    = under construction
    = w-0065
    → 1F6A7   construction sign
1F3D8   HOUSE BUILDINGS
    = town
    = w-0066
    → 1F3E1   house with garden

1F3D9   CITYSCAPE
    = skyline, city
    = w-0067
    → 1F306   cityscape at dusk
1F3DA   DERELICT HOUSE BUILDING
    = derelict site
    = w-0068
    → 1F3E0   house building
1F3DB   CLASSICAL TEMPLE
    = public building
    = w-0071
1F3DC   DESERT
    = w-0069
    → 1F335   cactus
1F3DD   ISLAND
    = w-0074
    → 1F334   palm tree
1F3DE   PARK
    = w-0080
    → 1F333   deciduous tree
1F3DF   STADIUM
    = w-0083

Miscellaneous symbol

1F3F7   LABEL
    = price, price tag
    = w-0146
    → 1F516   bookmark

Animal symbols

1F43F   CHIPMUNK
    = animal, critter
    = w-0242

Audio and video symbols

1F4F8   CAMERA WITH FLASH
1F4F9   <reserved>
1F4FA   TELEVISION
1F4FB   <reserved>
1F4FC   <reserved>
1F4FD   FILM PROJECTOR
    = movies
    = w-0184
    → 1F3A6   cinema
1F4FE   PORTABLE STEREO
    = stereo
    = w-0186

Communication symbols

1F56B   BULLHORN
    = sound off
    = w-0086
    → 1F508   speaker
1F56C   BULLHORN WITH SOUND WAVES
    = sound on
    = w-0085
    → 1F4E3   cheering megaphone
    → 1F50A   speaker with three sound waves

Miscellaneous symbols

1F570   MANTELPIECE CLOCK
    = clock
    = w-0161
    → 23F0   alarm clock

1F571   <reserved>

1F572   NO PIRACY
    = w-0035

1F573   <reserved>

1F574   MAN IN BUSINESS SUIT LEVITATING
    = jump
    = w-0109

1F575   SLEUTH OR SPY
    = investigate
    = w-0160

1F576   DARK SUNGLASSES
    = cool
    = w-0036

Game symbols

1F579   JOYSTICK
    = w-0195

Communication symbols

1F57C   TELEPHONE RECEIVER WITH PAGE
    = fax
    = w-0198
    → 1F4E0 ⌨ fax machine

1F57D   <reserved>

1F57E   <reserved>

1F57F   <reserved>

1F580   TELEPHONE ON TOP OF MODEM
    = modem
    = w-0201

1F581   CLAMSHELL MOBILE PHONE
    = cellular phone
    = w-0200
    → 1F4F1 📱 mobile phone

1F582   <reserved>

1F583   <reserved>

1F584   <reserved>

1F585   <reserved>

1F586   <reserved>

1F587   <reserved>

1F588   BLACK PUSHPIN
    = marker
    = w-0235
    → 1F4CC 📌 pushpin

Hand symbols

1F594   REVERSED VICTORY HAND

1F595   REVERSED HAND WITH MIDDLE FINGER EXTENDED

1F596   RAISED HAND WITH PART BETWEEN MIDDLE AND RING FINGERS

Office symbols

1F5BB   DOCUMENT WITH PICTURE
    = graphic document
    = w-0159

User interface symbols

1F5BC   FRAME WITH PICTURE
    = art
    = w-0173

1F5BD   FRAME WITH TILES
    = frames
    = w-0162

1F5BE   FRAME WITH AN X
    = no frames, no picture
    = w-0163

1F5BF   <reserved>

1F5C0   <reserved>

1F5C1   <reserved>

1F5C2   CARD INDEX DIVIDERS
    = index
    = w-0172
    → 1F4C7 🗂 card index

1F5C3   CARD FILE BOX
    = archive
    = w-0171

1F5C4   <reserved>

1F5C5   <reserved>

1F5C6   <reserved>

1F5C7   <reserved>

1F5C8   <reserved>

1F5C9   <reserved>

1F5CA   <reserved>

1F5CB   <reserved>

1F5CC   <reserved>

1F5CD   <reserved>

1F5CE   <reserved>

1F5CF   <reserved>

1F5D0   <reserved>

1F5D1   <reserved>

1F5D2   SPIRAL NOTE PAD
    = note
    = w-0165
    → 1F4C5 📅 calendar

1F5D3   SPIRAL CALENDAR PAD
    = calendar
    = w-0166
    → 1F4C6 📆 tear-off calendar

1F5D4   <reserved>

1F5D5   <reserved>

1F5D6   <reserved>

1F5D7   <reserved>

1F5D8   <reserved>

1F5D9   <reserved>

1F5DA   <reserved>

1F5DB   <reserved>

1F5DC   COMPRESSION
    • hand press with box inside
    = w-0206

1F5DD   OLD KEY
    = encryption
    = w-0209
    → 1F511 🔑 key

Miscellaneous symbols

1F5DE   ☛   ROLLED-UP NEWSPAPER
    = news
    = w-0169
    → 1F4F0 📰 newspaper

1F5DF   🗟   PAGE WITH CIRCLED TEXT
    = classified
    = w-0170

1F5E0   🗠   STOCK CHART
    = finance
    = w-0143
    → 1F4C8 📈 chart with upwards trend

Rating symbols

The following symbols give rating symbols; part of this set is 1F46A for "Family rating"

1F5E1   🗡   DAGGER KNIFE
    = rated for violence
    = hate
    = w-0149
    → 1F52A 🔪 hocho

1F5E2   🗢   LIPS
    = rated for sex
    = kiss
    = w-0150
    → 1F48B 💋 kiss mark

1F5E3   🗣   SPEAKING HEAD IN SILHOUETTE
    = rated for strong language
    = w-0151

Sound symbols

1F5E4   🗤   THREE RAYS ABOVE
    = w-0237

1F5E5   🗥   THREE RAYS BELOW
    = w-0238

1F5E6   🗦   THREE RAYS LEFT
    = w-0239
    → 269E ⚞ three lines converging right

1F5E7   🗧   THREE RAYS RIGHT
    = w-0240
    → 269F ⚟ three lines converging left

Bubble symbols

1F5E8   🗨   LEFT SPEECH BUBBLE
    = w-0040

1F5E9   🗩   RIGHT SPEECH BUBBLE
    = w-0041

1F5EA   🗪   TWO SPEECH BUBBLES
    = chat
    = w-0094

1F5EB   🗫   THREE SPEECH BUBBLES
    = conference
    = w-0095

1F5EC   🗬   LEFT THOUGHT BUBBLE
    = w-0091

1F5ED   🗭   RIGHT THOUGHT BUBBLE
    = w-0093
    → 1F4AD 💭 thought balloon

1F5EE   🗮   LEFT ANGER BUBBLE
    = shout left
    = w-0123

1F5EF   🗯   RIGHT ANGER BUBBLE
    = shout right
    = w-0125

1F5F0   🗰   MOOD BUBBLE
    = new
    = w-0042
    → 1F4A5 💥 collision symbol

1F5F1   🗱   LIGHTNING MOOD BUBBLE
    = updated
    = w-0043
    → 26A1 ⚡ high voltage sign

1F5F2   🗲   LIGHTNING MOOD
    = lightning bolt
    = w-0126
    → 26A1 ⚡ high voltage sign

Ballot symbols

1F5F3   🗳   BALLOT BOX WITH BALLOT
    = vote
    = w-0063
    → 2612 ☒ ballot box with x

	1F68	1F69	1F6A	1F6B	1F6C	1F6D	1F6E	1F6F
0							⚒ 1F6E0	🛰 1F6F0
1							🛡 1F6E1	🚒 1F6F1
2							🛢 1F6E2	🚞 1F6F2
3							🛣 1F6E3	
4							🛤 1F6E4	
5							🛥 1F6E5	
6							🛦 1F6E6	
7							🛧 1F6E7	
8							🛨 1F6E8	
9							🛩 1F6E9	
A								
B					🛋 1F6CB			
C					🛌 1F6CC			
D					🛍 1F6CD			
E					🛎 1F6CE			
F								

1F6F2   DIESEL LOCOMOTIVE

Vehicles

Accommodation symbols

1F6CB COUCH AND LAMP
= furniture, lifestyles
= w-0226

1F6CC BED
= hotel, guestrooms, accommodation
= w-0227
→ 1F3E8 hotel

1F6CD SHOPPING BAG
= shopping
= w-0231

1F6CE BELLHOP BELL
= reception, services
= w-0230

Miscellaneous symbols

1F6E0 HAMMER AND WRENCH
= tools, repair facility
= w-0064
→ 2692 hammer and pick

1F6E1 SHIELD
= US road interstate highway
= w-0100

1F6E2 OIL DRUM
= commodities
= w-0144

1F6E3 MOTORWAY
= w-0075

1F6E4 RAILWAY
= railroad
= w-0082

Vehicles

1F6E5 MOTOR BOAT SIDEWAYS
= boat
= w-0111
→ 1F6A4 speedboat

1F6E6 MILITARY AIRPLANE
• military airport

1F6E7 UP-POINTING AIRPLANE
→ 2708 airplane
• commercial airport

1F6E8 SMALL AIRPLANE
= w-0106
• airfield

1F6E9 NORTHEAST-POINTING AIRPLANE
= airplane
= w-0241

1F6EA <reserved>
1F6EB <reserved>
1F6EC <reserved>
1F6ED <reserved>
1F6EE <reserved>
1F6EF <reserved>

1F6F0 SATELLITE
= w-0107

1F6F1 ONCOMING FIRE ENGINE
= fire
= w-0102
→ 1F692 fire engine