ISO/IEC JTC1/SC2/WG2
Coded Character Set
Secretariat: Japan (JISC)

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Comments were received from Germany, Greece, Ireland, Japan, United Kingdom, and USA. The following document is the draft disposition of those comments. The disposition is organized per country.

Note – The full content of the ballot comments have been included in this document to facilitate the reading. The dispositions are inserted in between these comments and are marked in **Underlined Bold Serif text**, *with explanatory text in italicized serif*.

Germany: Positive with comments

(The German vote was first accounted as Disapproval with comments in SC2 N4087, but a consequent communication with SC2 secretariat (message dated Sep 22nd 2009) changed it to Approval with comments.)

(Technical and Editorial comments are interspersed in the ballot from Germany. Their type is identified by the header T for Technical and E for Editorial.)

E1. Emoji symbols in general:

Germany requests that, if the annotations keeping the reference to the Emoji sources will be retained in the future standard of all, do not simply be of the form "= e-xxx". To be recognized when a symbol is cited in isolation, or when searching the annotations, they must have a unique constant component, e.g. "Emoji". This request could e.g. be fulfilled by following annotation forms:

" = Emoji e-xxx"
" · represents Emoji e-xxx (DoCoMo #yyy, KDDI #zzz, Softbank #www)"
(the parts "DoCoMo #yyy" etc. only being present when the symbol is in fact listed in that source)
" · represents [telco] Emoji #xxx"
([telco] being one of DoCoMo, KDDI, Softbank; up to three different annotations of this form when applicable)
Propose acceptance in principle
The annotation with reference to the Emoji sources are only for bookkeeping during the amendment process in order to track reallocation of character code positions between amendment phases. They will be removed when the amendment is published. Note that the US in its comments T.3.e is asking to incorporate Emoji source data as a linked data file. This will satisfy in principle the German requirement.

T1. Emoji symbols in general

For all symbols whose name ends in "-<digit>" and whose representative glyph is hatched, like: U+1F34E APPLE-1 Germany suggests the intended differentiation of colors to get clarified (by name change or annotation). It is proposed to give an annotation like:
• heraldic hatching indicates color suggestion for certain applications
to be added to all characters which get multiple encoding for the reason of color differentiation.
Propose acceptance in principle
See also comment E.3 from Ireland. Instead of an annotation per character, a note will be added at the head of the block.

T2. U+A7A0 ff: (Latin Extended-D)

Germany requests the inclusion of the 10 Latin letters for pre-1921 Latvian orthography, as described in N3587.
WG2 discussion
This is part of a block with characters addition in this amendment.

E2. U+1F170 ff., negative squared letters; U+1F179 ff., white on black squared letters:

There is a confusion between the terms "Negative squared …" and "White on Black squared …" which both actually indicate the same thing. We propose to put all relevant characters under the "Negative squared …" heading. The statement "The square edges may be slightly rounded." belongs to this complete heading.
Propose acceptance in principle
For consistency with other similar groups, the term 'White on black squared Latin letters' will be used as the overall header. In other words, the header text between 1F171 and 1F179 will be moved and replace the header text in front of 1F170.

T3. U+1F30F EARTH GLOBE ASIA-AUSTRALIA:

Germany requests the two other earth globe characters contained in document N3607 = L2/09-114 to be retained:
U+1F30E EARTH GLOBE EUROPE-AFRICA
U+1F310 EARTH GLOBE AMERICAS
It is obvious that such earth globe symbols are used in contexts beyond Emoji (e.g. all three globes are contained in Microsoft's Webdings font). Encoding one of the globes one is cultural biasing.
Propose acceptance in principle
Also part of comment T.6 from Ireland, but at different location (1F30D and 1F30E).

T4. U+1F368 ICE CREAM:

Germany requests a name change into something like
U+1F368 CUP WITH ICE CREAM,
or
U+1F368 ICE CREAM IN DISH WITH SPOON
to show the difference to the other proposed ice cream symbols, and to an ICE-CREAM CONE which may be proposed separately.
WG2 discussion
The other ice cream related symbols are called 'SOFT ICE CREAM and SHAVED ICE'. They do not describe precisely content and container as suggested. At the same time, it is true that ICE-CREAM is very often served on cone.

E3. U+1F38E GIRLS DOLL FESTIVAL; U+1F391 MOON VIEWING CEREMONY:

For these characters, Germany requests the addition of an informative note like:
· Japanese.
Propose acceptance in principle
The comment T.5 from Ireland requests a name change and new annotation for 1F38E such as:
1F38E JAPANESE DOLLS
= Japanese Hinamatsuri girls' festival
In the same line a new annotation could be added for 1F391:
1F391 MOON VIEWING CEREMONY
= Japanese Otsukimi harvest celebration

T5. U+1F3A0 ff., entertainment symbols:

The naming of the symbols are inconsistent as most of them are the names for the things pictured, while others are the names of abstract concepts to be denoted by the things. As the pattern for selecting this seems random, it is proposed to use the names of the pictured things throughout, except for U+1F3AD PERFORMING ARTS. However, it seems appropriate to preserve the denoted abstract concepts as alternative names. Thus, Germany requests the following name changes and additional annotations:
U+1F3A3 FISHING ROD WITH FISH
= fishing
U+1F3A5 MOVIE PROJECTOR
= movies
(if the glyph is changed to a movie camera as possibly proposed by others, then the name has to be U+1F3A5 MOVIE CAMERA)
U+1F3A8 ARTISTS PALETTE (not PALLET - see Wikipedia)
= art
U+1F3AA CIRCUS TENT
= event
Propose acceptance in principle
See comment T5 from Ireland. That comment proposes 1F3A3 FISHING POLE AND FISH (original name was FISHING); it also proposes to change the glyph and name for 1F3A5 to be MOVIE CAMERA. Same request as above for 1F3A8. The request for 1F3AA is unique to Germany but consistent with others.

E4. U+1F3AB TICKET:
Typo in the informative note, should be: "indicate*s* an event"
<u>Accepted</u>

T6. U+1F3E6 BANK:
The glyph does not match the building structure of the adjacent characters. Germany requests a glyph change showing a building structure like the adjacent characters.
<u>Propose acceptance</u>
Also part of comment E3 from Ireland.

T7. U+1F3E7 ATM:
Germany requests name be changed to U+1F3E7 AUTOMATIC TELLER MACHINE. It seems inappropriate to use an abbreviation as name.
<u>Propose acceptance in principle</u>
See also comment E2 from Ireland (request for annotation). Though the name should be AUTOMATED TELLER MACHINE.

T8. U+1F3EC DEPARTMENT STORE:
Germany suggests a glyph change:
The style has to be kept in line with the other symbols for buildings.
<u>Propose acceptance</u>
See also comment E3 from Ireland.

E5. U+1F3ED FACTORY:
Germany requests the addition of two annotations:
= industrial production site
= date of production
<u>Propose acceptance</u>

T9. U+1F3F0 WESTERN CASTLE:
Germany suggests a name change:
U+1F3F0 EUROPEAN CASTLE
<u>Propose acceptance</u>

T10. U+1F420 CAMEL:
Germany requests a name change:
U+1F420 DROMEDARY CAMEL (or DROMEDARY)
If the glyph is changed to show a Bactrian (two-bumped) camel, as possibly proposed by others, the requested name is:
U+1F420 BACTRIAN CAMEL
Additionally, Germany suggests to retain both symbols contained in document N3607 = L2/09-114 to be retained:
U+1F420 DROMEDARY CAMEL (originally proposed as 1F430)
U+1F43E BACTRIAN CAMEL (originally proposed as 1F431)
<u>Propose acceptance in principle</u>
See also comments T7 and T8 from Ireland. The alternative is to have either:
1F420 CAMEL
= bactrian camel (two humps)
= e-1D6
1F43E DROMEDARY
= dromedary camel (single hump)
Or
1F420 BACTRIAN CAMEL
* commonly called camel (two humps)

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= e-1D6
1F43E DROMEDARY CAMEL
* commonly called dromedary (single hump)
The editor prefers the 1ˢᵗ alternative.

T11. U+1F46F WESTERN PERSON:
Germany requests a name change to
U+1F46F BLOND-HAIRED WOMANS HEAD
(or BLOND-HAIRED WOMAN if it is agreed to drop HEAD for person symbols as possibly requested by others)
Any link from a specific appearance to membership of a cultural area can be considered racist (e.g. persons of African origin which feel themselves integrated into Western culture may legitimately think so). Thus, such naming is to be avoided, as it was done with other names of Emoji during the discussions predating PDAM8, and the term "western" is inappropriate.
Also, the use of PERSON is not consistent with other Emoji names where "woman" and "man" are used. The fact that Emoji e-184 can also be used for a man is a special unification of the original vendor's character sets which has not to be perpetuated in Unicode, as Unicode is not ruled by the same principles.
While the editors of the Emoji list presumably can change their unifications within their own dominion, Unicode has stability politics; thus if the unification is introduced into Unicode, it cannot be adjusted later. The fact that one vendor uses e-184 for a blonde man's head is suggested to be stated in an informative note:
· One of the sources for e-184 shows a blonde man's head
Germany also suggests that a BLOND-HAIRED MANS HEAD is also encoded, like it was included in the document N3607 = L2/09-114. This can be accompanied to a note like:
· Suited for SoftBank's representation of Emoji e-1A4 (Softbank Emoji #290)
WG2 discussion
It seems that the use of e-184 in the text is incorrect, e-1A4 is probably meant. The editor is totally opposed to have two entries with the same Emoji cross reference (in this case e-1A4).

E6. U+1F4AE ff., School grade symbols:
Germany requests a caption change:
The symbols under this heading are not "school grade symbols" but – essentially – *Japanese* school grade symbols. Therefore a change of the caption into "Japanese school grade symbols" is requested.
Propose acceptance

T12. U+1F4B1 CURRENCY EXCHANGE:
Germany requests the glyph of this character to show a banknote and some coins, to meet the expectations of the international average recipient.
Propose acceptance
Also part of comment E5 from Ireland.

T13. U+1F4B2 HEAVY DOLLAR SIGN:
Germany requests this symbol to be relocated into the Dingbats block, to U+27B0 or another free place there. Thus, all separately encoded "heavy" variants of common characters are found within the Dingbats block.
Propose acceptance
The only caveat is that the first column does not contain heavy symbols, but the more appropriate columns are full. This move has not been acted on yet.

T14. U+1F4BB COMPUTER:
Germany considers this character misnamed, as the representative glyph definitely does not show a computer. (This was confirmed e.g. in a discussion at the last SC35/WG1 meeting in Saskatoon when this symbol was examined in search of specific symbols for keyboard functions. This example proves that Emoji symbols are considered in totally different contexts as soon as encoded.)
Germany requests a name change to:
U+1F4BB COMPUTER MONITOR WITH KEYBOARD AND MOUSE
Germany would accept alternatively:

U+1F4BB COMPUTER WORKSTATION
U+1F4BB COMPUTER WORKPLACE
WG2 discussion
There are for sure many computers that look exactly like the picture; it is not uncommon to have the main unit integrated in the display or in the keyboard. In many other cases the main unit is hidden, leaving the monitor, keyboard, and mouse to represent the concept of a computer set on a desktop. At the same time 'COMPUTER WORKSTATION' or 'DESKTOP COMPUTER' could be acceptable to differentiate from a laptop computer picture.

E7. U+1F4B0 MONEY BAG:
Germany requests the annotation:
· Glyph may show any currency symbol instead of a dollar sign
Propose acceptance

E8. U+1F4D6 OPEN BOOK:
Germany requests the annotations:
= read operator's manual
· similar to ISO/IEC 7000-0790 "Read operator's manual"
Propose acceptance

E9. U+1F4E8 E-MAIL SYMBOL:
Germany requests the annotation:
· Glyph may show a @-symbol instead of an E
Propose acceptance

T15. U+1F4EA ENVELOPE WITH ARROW:
Germany requests a name change:
U+1F4EA ENVELOPE WITH BLACK DOWN-POINTING ARROW ABOVE
It cannot be excluded that in the due process of standardizing office symbols and icons, there may emerge other combinations of envelopes and arrows. Therefore, the name has to be exact.
Propose acceptance in principle
The name ENVELOPE WITH DOWNWARDS ARROW ABOVE is suggested instead (consistent with name formed in a similar fashion such as 1F508 TOP WITH UPWARDS ARROW ABOVE).

T16. U+1F4EB MAILBOX; U+1F4EC MAILBOX WITH RAISED FLAG:
Germany requests a name change:
U+1F4EB OPEN MAILBOX WITH LOWERED FLAG
U+1F4EC CLOSED MAILBOX WITH RAISED FLAG
It cannot be excluded that the other combinations will be encoded in the future; e.g. the widespread Microsoft Wingdings font contains all four combinations.
Moreover, the FLAG in the name associates the US-style mailbox form for U+1F4EB.
In fact, Germany suggests including the whole set from the beginning on, by adding the following two characters:
U+1F4xx OPEN MAILBOX WITH RAISED FLAG
U+1F4yy CLOSED MAILBOX WITH LOWERED FLAG
WG2 discussion
The two name changes make sense. Having CLOSED MAILBOX WITH LOWERED FLAG is also sensible. Therefore having all four like in the Wingdings font may be ok.

T17. U+1F4F1 PHONE WITH ARROW:
Germany requests a name change:
U+1F4F1 MOBILE PHONE WITH BLACK RIGHT-POINTING ARROW LEFT
It cannot be excluded that in the due process of standardizing office symbols and icons, there may emerge other combinations of phones and arrows. Therefore, the name has to be exact.

Propose acceptance in principle
The comment T7 from Ireland also asks to insert 'MOBILE' in front of PHONE. A possible name could be
MOBILE PHONE WITH RIGHTWARDS ARROW LEFT, using the same rules as in T15.

T18. U+1F4FC SPEAKER WITH CANCELLATION STROKE;
U+1F4FD SPEAKER;
U+1F4FE SPEAKER WITH ONE SOUND WAVE;
U+1F4FF SPEAKER WITH THREE SOUND WAVES:
Germany suggests a name change:
U+1F4FC BLACK SPEAKER WITH CANCELLATION STROKE
U+1F4FD BLACK SPEAKER
U+1F4FE BLACK SPEAKER WITH ONE SOUND WAVE
U+1F4FF BLACK SPEAKER WITH THREE SOUND WAVES
to get unique names for the case that function symbols employing white (hollow) speaker depictions will be
standardized in the future (e.g. by SC35).
WG2 Discussion
Not clear whether these depictions should be dis-unified, including one set of variant which does not exist today.

T19. U+1F51C DIM SCREEN SYMBOL;
U+1F51D BRIGHT SCREEN SYMBOL:
Germany requests a name change for these symbols.
Function names and symbols are the domain of SC35, where there is ongoing work on that subject.
It is possible that other symbols will be standardized for the "Dim Screen" and "Bright Screen" functions (as SC35
work is more guided by ergonomic research than by history of use). SC2/WG2 is asked not to anticipate such
standardization. Germany suggests:
1F51C LOW BRIGHTNESS SIGN
1F51D HIGH BRIGHTNESS SIGN
which denote states or outcomes, rather than functions.
However, as the surrounding symbols are named according to their appearance, Germany would also accept a
naming guided by that principle, as:
U+1F51C WHITE CIRCLE SURROUNDED BY SHORT RAYS
· Similar to ISO/IEC 13251-053 = IEC 60417-1-5056 "Brightness; brilliance"
· Used as a non-standardized dim screen symbol on some devices
-> 263C WHITE SUN WITH RAYS
-> 26ED GEAR WITHOUT HUB
U+1F51D WHITE CIRCLE SURROUNDED BY RAYS
· Similar to IEC 60417-1-5552 "Colour temperature: natural light"
· Used as a non-standardized bright screen symbol on some devices
(Note: a naming "... BY LONG RAYS" seems inappropriate, as the rays are at most "medium-length".)
WG2 Discussion
If the names are to be changed, the first option seems preferable:
1F51C LOW BRIGHTNESS SIGN
1F51D HIGH BRIGHTNESS SIGN

T20. U+1F533 SIX POINTED STAR WITH MIDDLE DOT:
Germany requests to move this character to U+2B4F (near U+2B50 WHITE MEDIUM STAR) or another place in
the "Miscellaneous Symbols and Arrows" block, as this is the appropriate place for abstract star characters.
WG2 Discussion
No preference.

T21. U+1F536 BLACK ROUNDED SQUARE,
U+1F537 WHITE ROUNDED SQUARE:
Germany requests name changes, as these symbols have an internal structure and are not simply geometric shapes.
Thus, also the header for these symbols has to be changed. Germany suggests the names:

U+1F536 BLACK SQUARE BUTTON
U+1F537 WHITE SQUARE BUTTON
This is in accordance with the SoftBank source where the symbols are called ボタン (button).
Propose acceptance
T22. U+1F538 ... U+1F543, Geometric shapes and User interface symbols:
Germany suggests these 10 symbols to be moved to the "Miscellaneous Symbols and Arrows" block, occupying the places 2B5A...2B63 or another sequence in that block. This is the appropriate place for geometric shapes, as it already contains a lot of those. This applies also for the four characters now headed under "User Interface symbols". It is suggested that this heading is also used for the four last symbols of the sequence at the new position.
WG2 Discussion
No preference.

T23. U+1F560 ff., Emoji compatibility symbols:
Germany votes against the inclusion of 10 new Emoji compatibility symbols, if such is requested by the US NB or others. However, Germany requests to fulfill the intent of these symbols by accepting the proposal N3680 Proposal to encode Symbols for ISO 3166 Two-letter Codes in the UCS", and suggests to include the character set proposed there into PDAM8.
Noted
Strictly speaking, this is not part of the ballot, but a feedback to another NB comment. See disposition of comment T1.d from USA.

T24. U+1F6AB NO ENTRY SIGN:
Germany requests a name change into something which does not contain "entry", like
U+1F6AB SIGN INDICATING NO
because this glyph indicates "no" in far more instances than "no entry" only. In addition, the annotation is suggested:
–> 20E0 COMBINING ENCLOSING CIRCLE BACKSLASH
Propose acceptance in principle
The editor would prefer a name such as 'SIGN INDICATING FORBIDDEN ACTIVITY'; 'NO' on its own is ambiguous.

E10. U+1F70A ALCHEMICAL SYMBOL FOR VINEGAR:
Germany requests to delete the annotation "+ plus sign", as this is plainly misguiding.
Propose acceptance

T25. U+1F759 ALCHEMICAL SYMBOL FOR BRICK:
Germany requests a clear glyph for this character.
Propose non acceptance
As presented in WG2 N3584, the glyph is a black rectangle, including the historic evidence shown page 7. Unless strong evidence to the contrary is shown by Germany, there is no reason to switch to a clear glyph.

E11. U+1F75E ALCHEMICAL SYMBOL FOR SUBLIMATION:
Germany requests the deletion of the annotation "260A ascending node", as this is irritating. Instead, Germany suggests an annotation "-> 264E LIBRA" instead, due to the similarity of the glyph.
Propose partial acceptance
There is nothing 'irritating in creating a reference between 1F75E ALCHEMICAL SYMBOL FOR SUBLIMATION and 260A ASCENDING NODE when the document WG2 N3584 (basis for these additions) describes 260A as the symbol for Sublimate. While not opposed to the addition of a cross reference to 264E LIBRA, this represents purely a glyph similarity between a zodiacal sign (Libra) and a chemical process.

E12. U+1F772 ALCHEMICAL SYMBOL FOR HALF DRAM:
= drachma semis

This sign is actually a ligature of 'Drachma' or dram sign (encoded as U+0292 LATIN SMALL LETTER EZH) and a "semis" sign similar to "ß", rendered in a scriptive style.

Therefore, Germany requests the annotations:

–> 0292 LATIN SMALL LETTER EZH

–> 00DF LATIN SMALL LETTER SHARP S

Propose partial acceptance

Adding the reference to 0292 LATIN SMALL LETTER EZH makes sense, given that 0292 already is aliased to 'dram'. It is however unclear whether there is any correlation between Semis (Half) and the German Eszett.

E13. U+1F773 ALCHEMICAL SYMBOL FOR HALF OUNCE:

= uncia semis

This sign is actually a ligature of ʒ 2125 and a "semis" sign similar to "ß", rendered in a scriptive style.

Therefore, Germany requests the annotations:

–> 2125 OUNCE

–> 00DF LATIN SMALL LETTER SHARP S

Propose partial acceptance

Similarly to comment E12, adding the reference to 2125 OUNCE makes sense. It is however unclear whether there is any correlation between Semis (Half) and the German Eszett.

Greece: Negative

(Greece did not mention whether the comments were technical or editorial, nevertheless, given that they all relate to character name issues, they are deemed to be technical)

Technical comments

The characters mentioned in the Greek National Body comments come from a proposal by the Thesaurus Linguae Graecae.
The proposal in which the characters were proposed is found at:
http://repositories.cdlib.org/cgi/viewcontent.cgi?article=1014&context=tlg , dated Oct. 2003 (identical to the following WG2 doc: http://std.dkuug.dk/jtc1/SC2/wg2/docs/n2642.pdf).
This resulted in their addition in ISO/IEC 10646:2003 Amendment 1 in 2005. Commenting on these characters is out of scope as ballot comment for Amendment 8. Only highlighted characters which are additions and are also mentioned in page 2 of PDAM8 should be commented.

T1. Wrong transcription of "CORONIS"
Change it to "KORONIS"
Propose out of scope
This concerns 2E0E EDITORIAL CORONIS. Note that per WG2 principle and procedure, character names cannot be changed once created. However annotation can be inserted in the chart pages. For example, this character already has the following annotation:
→ *1BFD greek koronis*
This character, as well as the other ones mentioned in comments T2-T4, were described in http://std.dkuug.dk/jtc1/SC2/wg2/docs/n2642.pdf . The proposal had a note for that new character:
"Note: name 'Editorial Coronis' used to distinguish character from 1FBD (Greek Koronis)".

T2. Wrong transcription of "HYPODIASTOLE"
Change it to "YPODIASTOLI"
Propose out of scope
This concerns 2E12 HYPODIASTOLE. Note that per WG2 principle and procedure, character names cannot be changed once created. However annotation can be inserted in the chart pages. For example, the following annotation could be added:
= ypodiastoli
This character is also discussed in: Turner, E.G. & Parsons, P.J. Greek Manuscripts of the Ancient World (London, 1987) p. 11.

T3. OBELOS
We don't know were you have found the name "OBELOS" However, we do recognise the symbol ÷, the first glyph variant you present.
Propose out of scope
This concerns 2E13 DOTTED OBELOS. The term 'Obelos' can be easily searched on Internet. A common definition is: "The obelos symbol gets its name from the spit or sharp end of a lance".
In the context of the N2642 proposal, the text was: "Obelos: See McNamee 37" [for a complete list [of variants]. This refers to: McNamee, K., Sigla and Select Marginalia in Greek Literary Papyri. (Papyrologica Bruxellensia 26) (Brussels, 1992).

T4. ANCORA
We don't know where you have found the name "ANCORA". Perhaps you mix it with something else, very rare, like "ANGYRA".
Propose out of scope
This concerns 2E15 UPWARDS ANCORA. The term is also in McNamee, p 11, as mentioned in N2642.

Ireland: Negative

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.
Although Ireland's usual practice in presenting Technical and Editorial comments is to divide them into two sections, we have departed from this here, due to the nature of the large symbol set. Nevertheless comments are still identified with T and E.

E1 Page 19, Row 230: Miscellaneous Technical.
Ireland suggests that that, for consistency, the glyph at 23F0 be revised to be more similar to the glyphs for 23F1 and 23F2. A number of clock applications use these to identify settings for alarms, stopwatches, and timers. The glyph at 231A WATCH should similarly be harmonized.
Propose acceptance

T1. Page 25, Row 260: Miscellaneous Symbols..
With reference to ISO/IEC JTC1/SC2/WG2 N3672 "Proposal to Encode the Astronomical Symbol for Uranus" and to ISO/IEC JTC1/SC2/WG2 N3674 "Proposal for PENTAGRAM characters", Ireland requests that the following four characters be added to PDAM 8:
26E2 ASTRONOMICAL SYMBOL FOR URANUS
26E4 PENTAGRAM
26E5 RIGHT-HANDED INTERLACED PENTAGRAM
26E6 LEFT-HANDED INTERLACED PENTAGRAM
Ireland also requests the addition of the following character be added to PDAM 8:
26E7 INVERTED PENTAGRAM
This widely-known character completes that set. An example of it alongside PENTAGRAM in
Carl G. Liungman's Tanketecken (Trondheim: Polaris, 1993):
(see SC2 N4087 for picture)
Propose acceptance

T2. Page 31, Row 2E0: Supplemental Punctuation.
Ireland requests that the character 2E32 LOOPED LENGTH MARK be moved to Row 270 Dingbats at position 27B0 with the name CURLY LOOP (removing the Supplemental Punctuation block from PDAM 8). We also propose that at 27BF a similar character, DOUBLE CURLY LOOP, be added. This second character can be mapped to the emoji character e-82B as listed in N3681.
27B0 CURLY LOOP
= kururi
= e-80B
27BF DOUBLE CURLY LOOP
= e-82B
Ireland is aware that the second character (e-82B) has been proposed to be encoded as a "compatibility" character with neither name or glyph. Ireland is fundamentally opposed to this sort of encoding, which is without precedent in the UCS and is, in our view, a mis-use of the term "compatibility". We understand the requirement to map characters used in the emoji environment, but we are strongly opposed to any sort of "stealth encoding" or encoding of nameless, glyphless "wild cards" like this. If that door were opened, it could never be shut.
As "dingbats", the CURLY LOOP and DOUBLE CURLY LOOP are simply shapes that can be used for any purpose.
Propose acceptance

T3. Page 42, Row A72: Latin Extended-D.
Ireland reiterates its support for the character being ballotted at A78F, LATIN LETTER MIDDLE DOT. We have reviewed ISO/IEC JTC1/SC2/WG2 N3678 "On the proposed U+A78F LATIN LETTER MIDDLE DOT (L2/09‐031R = N3567)", and we are satisfied to agree that Americanist orthographies do in fact use 00B7 MIDDLE DOT as a length mark. The transliteration character LATIN LETTER MIDDLE DOT, however, is not a length mark, but a consonant. We oppose the superficial unification based on glyph shape. The MODIFIER LETTER

HALF TRIANGULAR COLON has the wrong shape anyway, as well as a very specific use and relation to the MODIFIER LETTER TRIANGULAR COLON, and the MIDDLE DOT itself is a fairly small, colon-sized dot, whilst the Tangut/Phags-Pa character is typically larger. In our view, the case made in N3567 "Proposal to encode a Middle Dot letter for Phags-pa transliteration" for encoding this new character is stronger than the arguments proposed against it in N3678. Ireland opposes the removal of A78F LATIN LETTER MIDDLE DOT from PDAM 8.

WG2 discussion

See also opposite view exposed in comment T.5 from USA.

T4. Page 58, Row 1F10: Enclosed Alphanumeric Supplement.
With reference to ISO/IEC JTC1/SC2/WG2 N3671 "Proposal to encode additional enclosed Latin alphabetic characters to the UCS", Ireland requests that the 66 additional characters proposed in that document be added to PDAM 8:

1F130 SQUARED LATIN CAPITAL LETTER A
= Anreisetag (day of arrival)
≈ <square> 0041 A
1F132 SQUARED LATIN CAPITAL LETTER C
≈ <square> 0043 C
1F133 SQUARED LATIN CAPITAL LETTER D
≈ <square> 0044 D
1F134 SQUARED LATIN CAPITAL LETTER E
≈ <square> 0045 E.
1F135 SQUARED LATIN CAPITAL LETTER F
≈ <square> 0046 F
1F136 SQUARED LATIN CAPITAL LETTER G
≈ <square> 0047 G
1F137 SQUARED LATIN CAPITAL LETTER H
≈ <square> 0048 H
1F138 SQUARED LATIN CAPITAL LETTER I
≈ <square> 0049 I
1F139 SQUARED LATIN CAPITAL LETTER J
≈ <square> 004A J
1F13A SQUARED LATIN CAPITAL LETTER K
≈ <square> 004B K
1F13B SQUARED LATIN CAPITAL LETTER L
≈ <square> 004C L
1F13C SQUARED LATIN CAPITAL LETTER M
≈ <square> 004D M
1F13E SQUARED LATIN CAPITAL LETTER O
≈ <square> 004F O
1F140 SQUARED LATIN CAPITAL LETTER Q
≈ <square> 0051 Q
1F141 SQUARED LATIN CAPITAL LETTER R
≈ <square> 0052 R
1F143 SQUARED LATIN CAPITAL LETTER T
= tobacconist
≈ <square> 0054 T
1F144 SQUARED LATIN CAPITAL LETTER U
≈ <square> 0055 U
1F145 SQUARED LATIN CAPITAL LETTER V
≈ <square> 0056 V
1F147 SQUARED LATIN CAPITAL LETTER X
≈ <square> 0058 X
1F148 SQUARED LATIN CAPITAL LETTER Y
≈ <square> 0059 Y

1F149 SQUARED LATIN CAPITAL LETTER Z
≈ <square> 005A Z
1F14F SQUARED WC
= water closet, public toilet
≈ <square> 0057 W 0043 C
1F150 NEGATIVE CIRCLED LATIN CAPITAL LETTER A
= airport
1F151 NEGATIVE CIRCLED LATIN CAPITAL LETTER B
1F152 NEGATIVE CIRCLED LATIN CAPITAL LETTER C
1F153 NEGATIVE CIRCLED LATIN CAPITAL LETTER D
1F154 NEGATIVE CIRCLED LATIN CAPITAL LETTER E
1F155 NEGATIVE CIRCLED LATIN CAPITAL LETTER F
= ferry
1F156 NEGATIVE CIRCLED LATIN CAPITAL LETTER G
1F158 NEGATIVE CIRCLED LATIN CAPITAL LETTER I
1F159 NEGATIVE CIRCLED LATIN CAPITAL LETTER J
1F15A NEGATIVE CIRCLED LATIN CAPITAL LETTER K
= Kurort (spa)
1F15B NEGATIVE CIRCLED LATIN CAPITAL LETTER L
= light rail
1F15C NEGATIVE CIRCLED LATIN CAPITAL LETTER M
= metro
1F15D NEGATIVE CIRCLED LATIN CAPITAL LETTER N
1F15E NEGATIVE CIRCLED LATIN CAPITAL LETTER O
1F160 NEGATIVE CIRCLED LATIN CAPITAL LETTER Q
1F161 NEGATIVE CIRCLED LATIN CAPITAL LETTER R
= Raststätte (rest stop)
1F162 NEGATIVE CIRCLED LATIN CAPITAL LETTER S
= Stadtbahn (metropolitan railway)
1F163 NEGATIVE CIRCLED LATIN CAPITAL LETTER T
= Tankstelle (petrol station)
1F164 NEGATIVE CIRCLED LATIN CAPITAL LETTER U
= underground rail
1F165 NEGATIVE CIRCLED LATIN CAPITAL LETTER V
1F166 NEGATIVE CIRCLED LATIN CAPITAL LETTER W
1F167 NEGATIVE CIRCLED LATIN CAPITAL LETTER X
1F168 NEGATIVE CIRCLED LATIN CAPITAL LETTER Y
1F169 NEGATIVE CIRCLED LATIN CAPITAL LETTER Z
1F172 NEGATIVE SQUARED LATIN CAPITAL LETTER C
= centre, city centre
1F173 NEGATIVE SQUARED LATIN CAPITAL LETTER D
1F174 NEGATIVE SQUARED LATIN CAPITAL LETTER E
1F175 NEGATIVE SQUARED LATIN CAPITAL LETTER F
= Feuerwache (fire department)
1F176 NEGATIVE SQUARED LATIN CAPITAL LETTER G
1F177 NEGATIVE SQUARED LATIN CAPITAL LETTER H
= hospital
= Haltstelle (halting place)
1F178 NEGATIVE SQUARED LATIN CAPITAL LETTER I
1F17A NEGATIVE SQUARED LATIN CAPITAL LETTER K
1F17D NEGATIVE SQUARED LATIN CAPITAL LETTER N
1F180 NEGATIVE SQUARED LATIN CAPITAL LETTER Q
1F181 NEGATIVE SQUARED LATIN CAPITAL LETTER R
1F182 NEGATIVE SQUARED LATIN CAPITAL LETTER S
1F183 NEGATIVE SQUARED LATIN CAPITAL LETTER T

1F184 NEGATIVE SQUARED LATIN CAPITAL LETTER U
1F185 NEGATIVE SQUARED LATIN CAPITAL LETTER V
1F186 NEGATIVE SQUARED LATIN CAPITAL LETTER W
1F187 NEGATIVE SQUARED LATIN CAPITAL LETTER X
1F188 NEGATIVE SQUARED LATIN CAPITAL LETTER Y
1F189 NEGATIVE SQUARED LATIN CAPITAL LETTER Z
1F18F NEGATIVE SQUARED WC
= public toilet
Propose acceptance in principle
Minor annotation modification for 1F177:
1F177   NEGATIVE SQUARED LATIN CAPITAL LETTER H
*   = Haltestelle (bus stop)*
This is however a significant addition request that should be discussed on its own during WG2 meeting.

T5. Page Page 64, Row 1F30: Miscellaneous Pictographic Symbols.
Ireland requests a number of name changes, shown below in the formula OLD NAME > NEW NAME. The annotations to those characters are also given here; in a few cases where the annotation has changed or been added this is indicated. These changes are shown below in the chart in bluehighlighted glyph cells.
1F34E APPLE-1 > RED APPLE
= e-051
1F34F APPLE-1 > GREEN APPLE
= e-05B
1F361 DUMPLING > DANGO
= mochi balls on skewer
= e-968
1F362 SEAFOOD CASSEROLE > ODEN
= seafood on skewer
= e-96D
1F371 LUNCHBOX > BENTO BOX
= e-96F
1F383 JACK O LANTERN > JACK-O-LANTERN
= Hallowe'en (**changed annotation**)
= e-51F
1F385 SANTA CLAUS > FATHER CHRISTMAS
= Santa Claus (**new annotation**)
= e-513
1F38E GIRLS DOLL FESTIVAL > JAPANESE DOLLS
= Japanese Hinamatsuri girls' doll festival (**new annotation**)
= e-519
1F3A3 FISHING > FISHING POLE AND FISH
= fishing (**~~pole and fish~~ deleted**)
= e-7FF
1F3A5 MOVIES > MOVIE CAMERA
= film, movies (**changed annotation**)
= e-801
1F3A8 ART>ARTISTS PALETTE
= art (**replace 'painter's pallet'**)
= e-804
1F3AC MOVING SHOOTING CLAPBOARD> CLAPPER BOARD
= e-808
1F3BE TENNIS > TENNIS RACQUET AND BALL
= tennis (**new annotation**)
= e-7D3
1F3BF SKIING > SKI AND SKI BOOT
= skiing (**new annotation**)

= e-7D5
1F3C0 BASKETBALL > BASKETBALL AND HOOP
= basketball (**new annotation**)
= e-7D6
1F3C1 CHECKERED FLAG > CHEQUERED FLAG
= motor sports
= e-7D7
1F3E1 HOUSE WITH YARD > HOUSE WITH GARDEN
= home, house with yard (**changed annotation**)
= e-4B1
Propose acceptance in principle
The editor has corrected entries for 1F3A3 (missing previous names), 1F3A5 (incorrectly shown as 1F3AF), 1F3A8, 1F3AC (missing previous names) in accordance with the chart provided in Ireland ballot. The name change for 1F3A5 is also requested by the comment T3.a from USA.
Otherwise, the changes were discussed in an ad hoc group prior to the meeting and should be acceptable after discussion within WG2.

E2 Page 64, Row 1F30: Miscellaneous Pictographic Symbols.
Ireland requests a number of annotation changes.
1F319 CRESCENT MOON
* may indicate either the first or last quarter moon (**changed annotation**)
1F340 FOUR LEAF CLOVER
four leafed clover (**annotation deleted**)
1F381 WRAPPED PRESENT
x 1F4E7 package (**cross reference added**)
1F3E7 ATM
* automated teller machine (**new annotation**)
Propose acceptance in principle
If comment T7 from Germany is accepted the annotation for 1F3E7 is not needed or at least should be changed to say 'ATM'.

T6. Page 64, Row 1F30: Miscellaneous Pictographic Symbols.
Ireland requests three character additions. These are shown below in the chart in blue-highlighted glyph cells.
1F30D EARTH GLOBE EUROPE-AFRICA
1F30E EARTH GLOBE AMERICAS
1F310 EARTH GLOBE WITH MERIDIANS
= used to indicate international input source, world clocks with time zones, etc.
Propose acceptance
The two first characters are also requested by Germany (comment T3).

E3 Page 64, Row 1F30: Miscellaneous Pictographic Symbols.
Ireland requests a number of glyph changes. The proposed changes are shown below in the chart in blue-highlighted glyph cells. In a number of cases the glyph change is related to a character name relating to the colour of the glyph in certain contexts; traditional European heraldic hatching is used to indicate the colours, and a note is proposed to appear at the head of the block:
@+ *In the case of characters that are associated in typical usage with a particular colour, conventions of European heraldry are used to represent those colours in monochromatic line drawings. This aspect of the representative glyphs is informative, not normative.*
1F34D PINEAPPLE
1F34E RED APPLE
1F34F GREEN APPLE
1F361 DANGO
1F362 ODEN
1F367 SHAVED ICE
1F375 TEACUP WITHOUT HANDLE

x 2615 hot beverage (**new annotation**)
1F3A5 MOVIE CAMERA
1F3B7 SAXOPHONE
1F3BA TRUMPET
1F3BF SKI AND SKI BOOT
1F3E6 BANK
1F3EC DEPARTMENT STORE
Propose acceptance
Glyph changes for 1F3E6 and 1F3EC are also requested by Germany (comment T6 and T8).

T7. Page Page 69, Row 1F40: Miscellaneous Pictographic Symbols.
Ireland requests a number of name changes, shown below in the formula OLD NAME > NEW NAME. The annotations to those characters are also given here; in a few cases where the annotation has changed or been added this is indicated. These changes are shown below in the chart in bluehighlighted glyph cells.
1F420 CAMEL > BACTRIAN CAMEL
= e-1D6
1F42B LADYBUG > LADY BEETLE
= ladybird, ladybug (**new annotation**)
= e-1E2
1F446 FISTED HAND > FISTED HAND SIGN
= punch
= e-B96
1F44C WAVING HAND > WAVING HAND SIGN
= e-B9D
1F44D CLAPPING HANDS > CLAPPING HANDS SIGN
= e-B9E
1F450 OPEN HANDS > OPEN HANDS SIGN
= e-BA1
1F45F SNEAKER > ATHLETIC SHOE
= runner, sneaker, tennis shoe (**changed annotation**)
= e-4CD
1F466 BOYS HEAD > BOY
= e-19B
1F467 GIRLS HEAD > GIRL
= e-19C
1F468 MANS HEAD > MAN
= e-19D
1F469 WOMANS HEAD > WOMAN
= e-19E
1F46B COUPLE > MAN AND WOMAN HOLDING HANDS
= e-1A0
1F47B CHERUB > BABY ANGEL
= e-1AF
1F484 NAIL CARE > NAIL POLISH
= manicure, nail care
= e-196
1F498 HEART-1 > BLUE HEART
= e-B13
1F499 HEART-2 > GREEN HEART
= e-B14
1F49A HEART-3 > YELLOW HEART
= e-B15
1F49B HEART-4 > PURPLE HEART
= e-B16
1F4A2 ANGER SIGN > ANGER SYMBOL

= e-B57
1F4A4 SLEEPING SIGN > SLEEPING SYMBOL
= e-B59
1F4A6 SPLASHING SWEAT> SPLASHING SWEAT SYMBOL
= e-B5B
1F4A7 DRIP > DROP OF WATER
= e-B5C
1F4A9 DUNG > PILE OF POO
= e-4F4
1F4AA FLEXED BICEP > FLEXED BICEPS
= strong, muscled
= e-B5E
1F4B9 CHART WITH UPWARDS TREND AND YEN SYMBOL > CHART WITH UPWARDS TREND AND YEN SIGN
= e-4DF
1F4BD MINI DISC > MINIDISC
= e-53C
1F4BF OPTICAL DISK > OPTICAL DISC
= e-81D
1F4C6 TEAR OFF CALENDAR > TEAR-OFF CALENDAR
= e-549
1F4D5 VERTICAL CLOSED BOOK > CLOSED BOOK
= e-502
1F4D7 BOOK-1 > GREEN BOOK
= e-4FF
1F4D8 BOOK-2 > BLUE BOOK
= e-500
1F4D9 BOOK-3 > ORANGE BOOK
= e-501
1F4E0 FAX > FAX MACHINE
= e-528
1F4E5 OUTBOX TRAY> OUT-BOX TRAY
= e-533
1F4E6 INBOX TRAY> IN-BOX TRAY
= e-534
1F4F1 PHONE WITH ARROW > MOBILE PHONE WITH ARROW
* making a phone call
= e-526
1F4FB VIDEO CASSETTE TAPE > VIDEOCASSETTE
= e-820

Propose partial acceptance
The editor has corrected entries for 1F47B (incorrectly shown as 1F47C), 1F4A6 (incorrect previous names), 1F4E5, and 1F4E6 ('TRAY' missing in both previous and new name) in accordance with the chart provided in the Irish ballot.
The name change for 1F420 CAMEL> BACTRIAN CAMEL is incorrect without a glyph change which should have been requested in E5 (but is not). The Irish ballot chart has it correctly. See disposition of comment T10 from Germany concerning CAMEL symbols.
Name change for 1F4AA FLEXED BICEP, also part of comment T3.a from USA.
For 1F4E5 and 1F4E6 (OUTBOX/INBOX TRAY), it is questionable whether a hyphen should be introduced in inbox and outbox (as in-box and out-box). The names without hyphen (outbox and inbox) are vastly more popular.

E4 Page 69, Row 1F40: Miscellaneous Pictographic Symbols.
Ireland requests a number of annotation changes.
1F465 BUSTS IN SILHOUETTE
= accounts (**new annotation**)

1F46F WESTERN PERSON
~~woman with blond hair~~ (**annotation deleted**)
1F4C0 DVD
= digital video disc (**new annotation**)
Propose acceptance in principle
See also comment T11 from Germany concerning 1F46F. The annotation for 1F4C0 should say: '= digital video/versatile disc' to be comprehensive.

T8. Page 69, Row 1F40: Miscellaneous Pictographic Symbols.
Ireland requests a number of character additions:
1F43E DROMEDARY CAMEL
1F470 TWO MEN HOLDING HANDS
1F49F TWO WOMEN HOLDING HANDS
1F4B7 BANKNOTE WITH POUND SIGN
1F4E2 CAMERA WITH FLASH
Propose acceptance in principle
The first character is also requested by Germany (comment T10). The name for 1F43E could however be simply DROMEDARY with annotation as suggested in disposition of comment T10 from Germany.

T9. Page 69, Row 1F40: Miscellaneous Pictographic Symbols.
Ireland requests that the following characters be re-arranged in the code chart. A number of the annotations have been changed.
@ Animal symbols
1F400 RAT (moved up from 1F42D)
* first of the signs of the Asian zodiac
1F401 MOUSE (moved up from 1F42E)
* first of the signs of the Asian zodiac, used in Persia
1F402 OX (moved up from 1F42F)
* second of the signs of the Asian zodiac
1F403 WATER BUFFALO (moved up from 1F430)
* second of the signs of the Asian zodiac, used in Vietnam
1F404 COW (moved up from 1F42C)
* second of the signs of the Asian zodiac, used in Persia
= beef (on menus)
1F405 TIGER (moved up from 1F431)
* third of the signs of the Asian zodiac
1F406 LEOPARD (moved up from 1F432)
* third of the signs of the Asian zodiac, used in Persia
1F407 RABBIT (moved up from 1F434)
* fourth of the signs of the Asian zodiac
1F408 CAT (moved up from 1F433)
* fourth of the signs of the Asian zodiac, used in Vietnam
1F409 DRAGON (moved up from 1F435)
* fifth of the signs of the Asian zodiac
1F40A CROCODILE (moved up from 1F437)
* fifth of the signs of the Asian zodiac, used in Persia
1F40B WHALE (moved up from 1F436)
* fifth of the signs of the Asian zodiac, used in Persia
1F40C SNAIL (moved down from 1F402)
* fifth of the signs of the Asian zodiac, used in Kazakhstan
= e-1B9
1F40D SNAKE (moved up from 1F41D)
* sixth of the signs of the Asian zodiac
= e-1D3
1F40E HORSE (moved up from 1F438)
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* seventh of the signs of the Asian zodiac
= e-7DC
1F40F RAM (moved up from 1F439)
* eighth of the signs of the Asian zodiac
1F410 GOAT (moved up from 1F43A)
* eighth of the signs of the Asian zodiac, used in Vietnam
1F411 SHEEP (moved up from 1F419)
* eighth of the signs of the Asian zodiac, used in Persia
= e-1CF
1F412 MONKEY (moved up from 1F418)
* ninth of the signs of the Asian zodiac
= e-1CE
1F413 ROOSTER (moved up from 1F43B)
* tenth of the signs of the Asian zodiac
= cock
1F414 CHICKEN (moved up from 1F41E)
* tenth of the signs of the Asian zodiac, used in Persia
= hen
= poultry (on menus)
= e-1D4
1F415 DOG (moved up from 1F43C)
* eleventh of the signs of the Asian zodiac
1F416 PIG (moved up from 1F43D)
* twelfth of the signs of the Asian zodiac
= pork (on menus)
1F417 BOAR (moved up from 1F41F)
* twelfth of the signs of the Asian zodiac, used in Japan
= e-1D5
1F418 ELEPHANT (moved down from 1F416)
* twelfth of the signs of the Asian zodiac, used in Thailand
= e-1CC
…
1F41E LADY BEETLE (moved up from 1F42B)
= ladybird, ladybug, coccinellids
= e-1E2
…
1F485 NAIL POLISH (moved down from 1F484)
= manicure
= e-196
…
1F4E6 PACKAGE (moved up from 1F4E7)
x (wrapped present - 1F381)
= e-535
…
1F4F5 KEYCAP TEN (moved up from 1F4F6)
x (combining enclosing keycap - 20E3) (**annotation added**)
= e-83B
…
Propose acceptance in principle
Please refer to document SC2 N4087for full details. The disposition only shows the characters for which the annotations have changed. Note that new annotations are different between T7 and T9 concerning 1F41E and 1F485 (new code positions as in this comment), in both cases the more verbose versions are considered preferred. The editor has incorporated the modified annotation in the interim chart, but not the new code positions. However, the moves are acceptable in principle as a result of disposition of all comments.

E5 Page 69, Row 1F40: Miscellaneous Pictographic Symbols.

Ireland requests a number of glyph changes. The proposed changes are shown below in the chart in blue-highlighted glyph cells.

1F400 (1F42D) RAT
1F401 (1F42E) MOUSE
1F402 (1F42F) OX
1F403 (1F430) WATER BUFFALO
1F404 (1F42C) COW
1F405 (1F431) TIGER
1F406 (1F432) LEOPARD
1F407 (1F434) RABBIT
1F408 (1F433) CAT
1F409 (1F435) DRAGON
1F40A (1F437) CROCODILE
1F40B (1F436) WHALE
1F40C (1F402) SNAIL
1F40D (1F41D) SNAKE
1F40E (1F438) HORSE
1F40F (1F439) RAM
1F410 (1F43A) GOAT
1F411 (1F419) SHEEP
1F413 (1F43B) ROOSTER
1F414 (1F41E) CHICKEN
1F415 (1F43C) DOG
1F416 (1F43D) PIG
1F417 (1F41F) BOAR
1F418 (1F416) ELEPHANT
1F419 (1F40F) OCTOPUS
1F41F (1F407) FISH
1F420 (1F413) TROPICAL FISH
1F421 (1F423) BLOWFISH
1F423 (1F405) HATCHING CHICK
1F424 (1F403) BABY CHICK
1F425 (1F404) FRONT-FACING BABY CHICK
1F426 (1F412) BIRD
1F427 (1F406) PENGUIN
1F428 (1F417) KOALA
1F429 (1F422) POODLE
1F42C (1F411) DOLPHIN
1F47C (1F47B) BABY ANGEL
1F489 (1F488) SYRINGE
1F499 (1F498) BLUE HEART
1F49A (1F499) GREEN HEART
1F49B (1F49A) YELLOW HEART
1F49C (1F49B) PURPLE HEART
1F4B1 (1F4B1) CURRENCY EXCHANGE
1F4D7 (1F4D7) GREEN BOOK
1F4D8 (1F4D8) BLUE BOOK
1F4D9 (1F4D9) ORANGE BOOK
1F4F5 (1F4F6) KEYCAP TEN
1F4F6 (1F4F7) CAMERA
1F4F8 (1F4F8) VIDEO CAMERA

Propose acceptance

Code positions content for 1F407, 1F408, 1F40A, and 1F40C have been changed and reordered to match the ballot chart and other Irish comments. Note that the ballot chart has the glyphs for the whale and the snail mixed

up. The glyph for the whale is still far from optimal. Doing a web search on whale icon gets many more acceptable outlines.
The code positions corresponding to values before applying the moves suggested by T9 are shown in parenthesis.
The entry 1F42B (1F420) BACTRIAN CAMEL is missing but is implied by the ballot chart.
See also comment T12 from Germany concerning 1F4B1.

T10. Page 75, Row 1F50: Miscellaneous Pictographic Symbols.
Ireland requests a number of name changes.
1F500 FREE SIGN > SQUARED FREE
= free postage
= e-B21
1F501 NO ONE UNDER EIGHTEEN SIGN > NO ONE UNDER EIGHTEEN SYMBOL
= e-B25
1F502 OK SIGN > SQUARED OK
= e-B27
1F503 NO GOOD SIGN > SQUARED NG
= e-B28
1F504 VS SIGN > SQUARED VS
= versus
= e-B32
1F505 NEW SIGN > SQUARED NEW
= e-B36
1F506 UP SIGN > SQUARED UP WITH EXCLAMATION MARK
= new information, update
= e-B37
1F507 COOL SIGN > SQUARED COOL
= e-B38
1F508 TOP WITH UP-POINTING TRIANGLE SIGN > TOP WITH UPWARDS ARROW ABOVE
= top of page
= e-B42
1F509 SOS SIGN > SQUARED SOS
= search, hunt for missing person
= e-B4F
1F50A SOON WITH RIGHT ARROW ABOVE > SOON WITH RIGHTWARDS ARROW ABOVE
= e-018
1F50B ON WITH DOUBLE POINTING ARROW ABOVE > ON WITH LEFT RIGHT ARROW ABOVE
= e-019
1F50C END WITH LEFT ARROW ABOVE > END WITH LEFTWARDS ARROW ABOVE
= e-01A
1F50D BACK WITH LEFT ARROW ABOVE > BACK WITH LEFTWARDS ARROW ABOVE
= e-B8E
1F50E LATIN CAPITAL LETTERS INPUT SYMBOL > INPUT SYMBOL FOR LATIN CAPITAL LETTERS
= e-B7C
1F50F LATIN SMALL LETTERS INPUT SYMBOL > INPUT SYMBOL FOR LATIN SMALL LETTERS
= e-B7D
1F510 NUMBERS INPUT SYMBOL > INPUT SYMBOL FOR NUMBERS
= e-B7E
1F511 SYMBOLS INPUT SYMBOL > INPUT SYMBOL FOR SYMBOLS
= e-B7F
1F512 LATIN LETTERS INPUT SYMBOL > INPUT SYMBOL FOR LATIN LETTERS
= English input (ABC) (**changed annotation**)
= e-B80
1F513 IDENTIFICATION SIGN > SQUARED ID
= identification, ID (**new annotation**)
= e-B81

1F514 CLEAR SIGN > SQUARED CL
= clear (**new annotation**)
= e-B84
1F515 DOUBLE CLOCKWISE OPEN CIRCLE ARROWS > CLOCKWISE UPWARDS AND DOWNWARDS OPEN CIRCLE ARROWS
= ~~clockwise upwards and downwards open circle arrows~~ (**annotation deleted**)
= reload
= e-B891
1F52A FLASHLIGHT > ELECTRIC TORCH
= flashlight (**new annotation**)
= e-4FB
1F52E KNIFE > HOCHO
= Japanese kitchen cleaver (**new annotation**)
= e-4FA
1F538 LARGE CIRCLE-1 > LARGE RED CIRCLE
x 25EF large circle
x 2B24 black large circle
= e-B63
1F539 LARGE CIRCLE-2 > LARGE BLUE CIRCLE
x 25EF large circle
x 2B55 heavy large circle
= e-B64
1F53A LARGE DIAMOND-1 > LARGE ORANGE DIAMOND
= e-B73
1F53B LARGE DIAMOND-2 > LARGE BLUE DIAMOND
= e-B74
1F53C SMALL DIAMOND-1 > SMALL ORANGE DIAMOND
= e-B75
1F53D SMALL DIAMOND-2 > SMALL BLUE DIAMOND
= e-B76
1F540 UP-POINTING TRIANGLE-1 > UP-POINTING RED TRIANGLE
= e-B78
1F541 DOWN-POINTING TRIANGLE-1 > DOWN-POINTING RED TRIANGLE
= e-B79
1F542 UP-POINTING SMALL TRIANGLE-1 > UP-POINTING SMALL RED TRIANGLE
= play arrow up
= e-B01
1F543 DOWN-POINTING SMALL TRIANGLE-1 > DOWN-POINTING SMALL RED TRIANGLE
= play arrow down
= e-B00
1F560 EMOJI COMPATIBILITY SYMBOL-1 > MOUNT FUJI
* ~~mount fuji~~ (**annotation deleted**)
= e-4C3
1F561 EMOJI COMPATIBILITY SYMBOL-2 > TOKYO TOWER
* ~~tokyo tower~~ (**annotation deleted**)
= e-4C4
1F562 EMOJI COMPATIBILITY SYMBOL-3 > STATUE OF LIBERTY
* ~~statue of liberty~~ (**annotation deleted**)
= e-4C6
1F563 EMOJI COMPATIBILITY SYMBOL-4 > SILHOUETTE OF JAPAN
* ~~sketch of japan~~ (**annotation deleted**)
= e-4C7
1F564 EMOJI COMPATIBILITY SYMBOL-5 > MOYAI
* ~~moyai~~ (**annotation deleted**)
* Japanese stone statue like Moai on Easter Island (**changed annotation**)

= e-4C8

Note in particular that we object in principle to the ballotted names of the last five characters here; "emoji" is a usage environment, and all of these graphic symbols are just that, graphic symbols. If they are to be encoded, they should be encoded with their proper names and their proper glyphs. We consider this to be an essential principle of the UCS.

Propose acceptance in principle

The editor has corrected entries for 1F50A-1F50D (shuffled), 1F515 (incorrectly shown as 1F519 and 1F508 (new name changed from TOP WITH UP-POINTING ARROW ABOVE to TOP WITH UPWARDS ARROW ABOVE to be consistent with chart and comment T12). Note also that the annotation for 1F52E is different from the annotation mentioned in T12 and the chart. Accordingly, the chart version: 'Japanese kitchen knife' has been retained.

Strictly speaking, the character at 1F50B could be 'ON WITH EXCLAMATION MARK WITH LEFT RIGHT ARROW ABOVE, should the punctuation exclamation mark be captured in the name, as in many other occurrences?

E6. Page 75, Row 1F50: Miscellaneous Pictographic Symbols.

Ireland requests a number of annotation changes.
1F516 TWISTED RIGHTWARDS ARROWS
= shuffle (**new annotation**)
1F517 CLOCKWISE RIGHTWARDS AND LEFTWARDS OPEN CIRCLE ARROWS
= repeat (**new annotation**)
1F518 CLOCKWISE RIGHTWARDS AND LEFTWARDS OPEN CIRCLE ARROWS
= repeat one over and over (**new annotation**)

Propose acceptance in principle

Change for 1F516 and 1F517 are OK. Concerning 1F518, note that its full name is CLOCKWISE RIGHTWARDS AND LEFTWARDS OPEN CIRCLE ARROWS WITH CIRCLED ONE OVERLAY. A preferred annotation is suggested:
= repeat one item over

T11. Page 75, Row 1F50: Miscellaneous Pictographic Symbols.

Ireland requests a number of character additions:
1F519 ANTICLOCKWISE UPWARDS AND DOWNWARDS OPEN CIRCLE ARROWS
= reload
1F55C CLOCK FACE ONE-THIRTY
1F55D CLOCK FACE TWO-THIRTY
1F55E CLOCK FACE THREE-THIRTY
1F55F CLOCK FACE FOUR-THIRTY
1F560 CLOCK FACE FIVE-THIRTY
1F561 CLOCK FACE SIX-THIRTY
1F562 CLOCK FACE SEVEN-THIRTY
1F563 CLOCK FACE EIGHT-THIRTY
1F564 CLOCK FACE NINE-THIRTY
1F565 CLOCK FACE TEN-THIRTY
1F566 CLOCK FACE ELEVEN-THIRTY
1F567 CLOCK FACE TWELVE-THIRTY

Propose acceptance in principle

The name for 1F519 is changed to 'ANTICLOCKWISE DOWNWARDS AND UPWARDS OPEN CIRCLE ARROWS' to match the chart. It also makes more sense.
The code position 1F560-1F564 are not available, they are already used. Instead the range proposed at 1F560-1F567 has been allocated in the range 1F565-1F56C. They are expected to be eventually moved somewhere else with the final disposition.

T12. Page 75, Row 1F50: Miscellaneous Pictographic Symbols.

Ireland requests that the following characters be re-arranged in the code chart. A number of the annotations have been changed.

1F191 SQUARED CL (moved up from 1F514)

= clear (**new annotation**)

= e-B84

1F192 SQUARED COOL (moved up from 1F507)

= e-B38

1F193 SQUARED FREE (moved up from 1F500)

= free postage

= e-B21

1F194 SQUARED ID (moved up from 1F513)

= identification, ID (**new annotation**)

= e-B81

1F195 SQUARED NEW (moved up from 1F505)

= e-B36

1F196 SQUARED NG (moved up from 1F503)

= e-B28

1F197 SQUARED OK (moved up from 1F502)

= e-B27

1F198 SQUARED SOS (moved up from 1F509)

= search, hunt for missing person

= e-B4F

1F199 SQUARED UP WITH EXCLAMATION MARK (moved up from 1F506)

= new information, update

= e-B37

1F19A SQUARED VS (moved up from 1F504)

= versus

= e-B32

…

1F50A TOP WITH UPWARDS ARROW ABOVE (moved down from 1F508)

= top of page

= e-B42

…

1F510F ANTICLOCKWISE DOWNWARDS AND UPWARDS OPEN CIRCLE ARROWS (moved up from 1F519)

= reload

1F510 DIM SCREEN SYMBOL (moved up from 1F51C)

1F511 BRIGHT SCREEN SYMBOL (moved up from 1F51D)

1F512 BATTERY (moved up from 1F51E)

= e-4FC

1F513 ELECTRIC PLUG (moved up from 1F51F)

= e-4FE

1F514 LEFT-POINTING MAGNIFYING GLASS (moved up from 1F520)

= search

= e-B85

1F515 RIGHT-POINTING MAGNIFYING GLASS (moved up from 1F521)

= get more details

= e-B8D

1F516 LOCK WITH INK PEN (moved up from 1F522)

= privacy

= e-B90

1F517 CLOSED LOCK WITH KEY (moved up from 1F523)

= secure

= e-B8A

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1F518 KEY (moved up from 1F524)
= e-B82
1F519 LOCK (moved up from 1F54B)
= padlock in locked position
= e-B86
1F51A OPEN LOCK (moved up from 1F54C)
= e-B87
1F51B RADIO BUTTON (moved down from 1F525)
= e-B8C
1F51C BOOKMARK (moved down from 1F526)
= e-B8F
1F51D LINK SYMBOL (moved down from 1F527)
= e-B4B
1F51E BELL (moved up from 1F54D)
= e-4F2
1F51F BELL WITH CANCELLATION STROKE (moved up from 1F54E)
1F520 FIRE (moved down from 1F528)
= e-4F6
1F521 ELECTRIC TORCH (moved down from 1F52A)
= flashlight
= e-4FB
1F522 WRENCH (moved down from 1F52B)
= e-4C9
1F523 HAMMER (moved down from 1F52C)
= e-4CA
1F524 NUT AND BOLT (moved down from 1F52D)
= e-4CB
1F525 HOCHO (moved down from 1F52E)
= japanese kitchen knife
= e-4FA
1F526 PISTOL (moved down from 1F52F)
= e-4F5
1F527 MICROSCOPE (moved down from 1F530)
1F528 TELESCOPE (moved down from 1F531)
1F529 CRYSTAL BALL (moved down from 1F532)
= e-4F7
1F52A SIX POINTED STAR WITH MIDDLE DOT (moved down from 1F533)
= e-4F8
1F52B JAPANESE SYMBOL FOR BEGINNER (moved down from 1F534)
= e-044
1F52C TRIDENT EMBLEM (moved down from 1F535)
= e-4D2
1F52E BLACK ROUNDED SQUARE (moved down from 1F536)
= e-BA3
1F52F WHITE ROUNDED SQUARE (moved down from 1F537)
= e-B67
1F530 LARGE RED CIRCLE (moved down from 1F538)
x (large circle - 25EF)
x (black large circle - 2B24)
= e-B63
1F531 LARGE BLUE CIRCLE (moved down from 1F539)
x (large circle - 25EF)
x (heavy large circle - 2B55)
= e-B64
1F532 LARGE ORANGE DIAMOND (moved down from 1F53A)

= e-B73
1F533 LARGE BLUE DIAMOND (moved down from 1F53B)
= e-B74
1F534 SMALL ORANGE DIAMOND (moved down from 1F53C)
= e-B75
1F535 SMALL BLUE DIAMOND (moved down from 1F53D)
= e-B76
1F536 UP-POINTING RED TRIANGLE (moved down from 1F540)
= e-B78
1F537 DOWN-POINTING RED TRIANGLE (moved down from 1F541)
= e-B79
1F538 UP-POINTING SMALL RED TRIANGLE (moved down from 1F542)
= play arrow up
= e-B01
1F539 DOWN-POINTING SMALL RED TRIANGLE (moved down from 1F543)
= play arrow down
= e-B00
1F5FB MOUNT FUJI (moved down from 1F560)
= e-4C3
1F5FC TOKYO TOWER (moved down from 1F561)
= e-4C4
1F5FD STATUE OF LIBERTY (moved down from 1F562)
= e-4C6
1F5FE SILHOUETTE OF JAPAN (moved down from 1F563)
= e-4C7
1F5FF MOYAI (moved down from 1F564)
* Japanese stone statue like Moai on Easter Island
= e-4C8
Propose acceptance in principle
There are many discrepancies between the original list and the chart part of the ballot:
- 1F194 entry incorrectly set to 1F514 (corrected in this disposition)
- 1F50F entry missing (added as implied by chart and as accepted in comment T11)
- 1F510-1F535 entries incorrectly set (corrected according to chart)
- 1F536-1F539 entries missing (added as implied by chart)
- Instruction for the range 1F567-1F56C is missing. It can be moved back to 1F560-1F567 (as originally intended) once Mount Fuji, Tokyo Tower, etc. are moved down.
In all cases the chart has been used to determine the preferred version for the Irish ballot (except for the 1F196 entry which has the incorrect name: using 'NO GOOD' instead of 'NG').
The editor has incorporated the modified annotation in the interim chart, but only the new code positions concerning the new ranges 1F191-1F19A, 1F5FB-1F5FF, and 1F560-1F567, leaving holes in some of the released locations. However, the other moves are acceptable in principle as a result of disposition of all comments.

E7. Page 75, Row 1F50: Miscellaneous Pictographic Symbols.
Ireland requests a number of glyph changes. The proposed changes are shown below in the chart in blue-highlighted glyph cells.
1F192 (1F507) SQUARED COOL
1F193 (1F500) SQUARED FREE
1F195 (1F513) SQUARED NEW
1F196 (1F503) SQUARED NG
1F197 (1F502) SQUARED OK
1F198 (1F509) SQUARED SOS
1F199 (1F506) SQUARED UP WITH EXCLAMATION MARK
1F19A (1F504) SQUARED VS
1F500 (1F501) NO ONE UNDER EIGHTEEN SYMBOL
1F50A (1F508) TOP WITH UPWARDS ARROW ABOVE

1F50E (1F515) CLOCKWISE UPWARDS AND DOWNWARDS OPEN CIRCLE ARROWS
1F50F (1F519) ANTICLOCKWISE DOWNWARDS AND UPWARDS OPEN CIRCLE ARROWS
1F512 (1F51E) BATTERY
1F51C (1F526) BOOKMARK
1F521 (1F52A) ELECTRIC TORCH
1F525 (1F52E) HOCHO
1F52B (1F534) JAPANESE SYMBOL FOR BEGINNER
1F530 (1F538) LARGE RED CIRCLE
1F531 (1F539) LARGE BLUE CIRCLE
1F532 (1F53A) LARGE ORANGE DIAMOND
1F533 (1F53B) LARGE BLUE DIAMOND
1F534 (1F53C) SMALL ORANGE DIAMOND
1F535 (1F53D) SMALL BLUE DIAMOND

Propose acceptance in principle

All code positions have been changed and reordered to match the ballot chart. In addition, the names for 1F50A (formerly 1F508) and 1F50F (formerly 1F519) have been changed to match the chart as well, and the code positions corresponding to values before applying the moves suggested by T12 are shown in parenthesis. Strictly speaking, 1F50F (1F519) ANTICLOCKWISE DOWNWARDS AND UPWARDS OPEN CIRCLE ARROWS is a new proposed character and should not be on this list.

T13. Page 78, Row 1F6: Emoticons.

Ireland requests a number of name changes:
1F607 FACE WITH HEART SHAPED EYES > FACE WITH HEART-SHAPED EYES
= e-327
1F609 WINKING FACE WITH STUCK OUT TONGUE > WINKING FACE WITH STUCK-OUT TONGUE
= e-329
1F60A FACE WITH STUCK OUT TONGUE > FACE WITH STUCK-OUT TONGUE
= e-32A
1F60B FACE SAVORING DELICIOUS FOOD > FACE SAVOURING DELICIOUS FOOD
= e-32B
1F62E CAT FACE WITH HEART SHAPED EYES > CAT FACE WITH HEART-SHAPED EYES
= e-33E
1F631 CAT FACE WITH TIGHTLY CLOSED LIPS > CAT FACE WITH TIGHTLY-CLOSED LIPS
= e-34F
1F63A PERSON RAISING BOTH HANDS IN CHEERS > PERSON RAISING BOTH HANDS IN CELEBRATION
= e-358
1F636 SEE NO EVIL MONKEY > SEE-NO-EVIL MONKEY
= e-354
1F637 SPEAK NO EVIL MONKEY > SPEAK-NO-EVIL MONKEY
= e-355
1F638 HEAR NO EVIL MONKEY > HEAR-NO-EVIL MONKEY
= e-356

Propose acceptance

T14. Page 78, Row 1F6: Emoticons.

Ireland requests one character addition and four annotations:
2639 WHITE FROWNING FACE
* used for the South House in Mahjong (**new annotation**)
263A WHITE SMILING FACE
= have a nice day!
* used for the East House in Mahjong (**new annotation**)
1F606 EXPRESSIONLESS FACE
* used for the North House in Mahjong (**new annotation**)
1F629 FACE WITHOUT MOUTH

* used for the West House in Mahjong (**new annotation**)
x 2687 white circle with two dots
The last one, 1F629, is the new character. Here is an example of the four characters in use in Mahjong annotation, from Amy Lo, The Book of Mahjong: An Illustrated Guide (Boston, Rutland, Tokyo: Tuttle, 2001):
(see document SC2 N4087 for picture)
Propose acceptance in principle
From the Irish ballot chart content, it seems that the expression 'House in Mahjong' common to all four requested annotations should be replaced with 'Wind in some Mahjong annotation'.

E8. Page 78, Row 1F6: Emoticons.
Ireland requests a number of glyph changes:
1F605 EXASPERATED FACE
1F611 HAPPY FACE WITH OPEN MOUTH AND COLD SWEAT
1F620 SLEEPY FACE
1F622 FACE WITH COLD SWEAT
1F623 DISAPPOINTED BUT RELIEVED FACE
Propose acceptance
Unlike previous comments of the same type (glyph change) , these locations are unchanged as result of other comments.

E9. Page 78, Row 1F6: Emoticons.
Ireland requests that the following characters be rearranged in the code chart.
1F637 HEAR-NO-EVIL MONKEY (moved up from 1F638)
1F638 SPEAK-NO-EVIL MONKEY (moved down from 1F637)
Propose acceptance in principle
This is not an editorial change. Indeed, other similar requests from Ireland were qualified as technical. This rearrangement makes sense but has not been acted on yet.

T15. Page 81, Row 1F68: Transport and Map Symbols.
Ireland requests a number of name changes.
1F687 SUBWAY > UNDERGROUND TRAIN
= subway, metro
= e-7E0
1F68C BUS-1 > BUS
1F68D BUS-2 > ONCOMING BUS
= e-7E6
1F693 POLICE CAR-1 > POLICE CAR
= e-7F4
1F694 POLICE CAR-2 > ONCOMING POLICE CAR
1F695 TAXI-1 > TAXI
= e-7EF
1F696 TAXI-2 > ONCOMING TAXI
1F697 AUTOMOBILE-1 > AUTOMOBILE
= e-7E4
1F698 AUTOMOBILE-2 > ONCOMING AUTOMOBILE
Propose partial acceptance
The change for 1F687 from SUBWAY to UNDERGROUND TRAIN is controversial. Subway network are not necessarily underground, in fact most have large section above ground. Other changes look fine. Note that although the change from 1F69A TRUCK > DELIVERY TRUCK is not mentioned here, the ballot chart has the new name. The name change for 1F69A is also requested by the USA in comment T3.a.

T16. Page 81, Row 1F68: Transport and Map Symbols.
Ireland requests a character addition.
1F6C5 BATHTUB

Propose acceptance

T17. Page 81, Row 1F68: Transport and Map Symbols.
Ireland requests that the following characters be re-arranged in the code chart.
1F6BD TOILET (moved up from 1F6BF)
1F6BE WATER CLOSET (moved up from 1F6C0)
1F6BF SHOWER (moved down from 1F6BE)
1F6C0 BATH (moved down from 1F6BD)
1F6C1 BATHTUB (moved up from 1F6C5)
1F6C2 PASSPORT CONTROL (moved down from 1F6C1)
1F6C3 CUSTOMS (moved down from 1F6C2)
1F6C4 BAGGAGE CLAIM (moved down from 1F6C3)
1F6C5 LEFT LUGGAGE (moved down from 1F6C4)
Propose acceptance
This rearrangement makes sense but has not been acted on yet.

E10. Page 81, Row 1F68: Transport and Map Symbols.
(title changed by editor)
Ireland requests two glyph changes:
1F68F (1F68F) BUS STOP
1F6C0 (1F6BD) BATH
Propose acceptance
Though it is not clear whether the change of the sign content on top the pole of the bus stop, being so tiny, is necessary. The code positions corresponding to values before applying the moves suggested by T17 are shown in parenthesis

T18. Page 83, Row 1F70: Alchemical Symbols.
Ireland requests that the following character names be used:
1F708 ALCHEMICAL SYMBOL FOR AQUA-VITAE > ALCHEMICAL SYMBOL FOR AQUA VITAE
1F709 ALCHEMICAL SYMBOL FOR AQUA-VITAE-2 > ALCHEMICAL SYMBOL FOR AQUA VITAE-2
1F70D ALCHEMICAL SYMBOL FOR SULFUR > ALCHEMICAL SYMBOL FOR SULPHUR
1F70E ALCHEMICAL SYMBOL FOR PHILOSOPHERS SULFUR > ALCHEMICAL SYMBOL FOR PHILOSOPHERS SULPHUR
1F70F ALCHEMICAL SYMBOL FOR BLACK SULFUR > ALCHEMICAL SYMBOL FOR BLACK SULPHUR
1F715 ALCHEMICAL SYMBOL FOR NITER > ALCHEMICAL SYMBOL FOR NITRE
1F76C ALCHEMICAL SYMBOL FOR BATH OF VAPORS > ALCHEMICAL SYMBOL FOR BATH OF VAPOURS
Propose acceptance
See also comment T2 from UK supporting same changes for 1F70D-1F70F, 1F715, and 1F76C.

Japan, Negative

Japan votes against ISO/IEC 10646:2003 PDAM 8 (SC2N4078) with comments below. Japan will change its vote if the three comments JP.T1, JP.T2, and JP.T3 are addressed appropriately.

JP.T1 (technical), JH reference:
Change the source reference of JH as described in IRG N1573 as follows:

JH   Hanyo-Denshi Program (汎用電子情報交換環境整備プログラム)

Note that the parenthesized Japanese text is a part of the source description.

Propose acceptance

JP.T2 (technical): U+2B779 removal
Remove the character JH-IB0680 (u+2b779 in CJK D), according to the conclusion of IRG #32 (IRG N1587).

Propose acceptance

Because this is the only reference for that character, U+2B779 will be removed from amendment 8 and the following characters moved up by one position. The character is still present in the chart provided with this disposition.

JP.T3 (technical): U+2B7EB incorrect
The character JH-444550 (u+2b7eb in CJK D) on the code chart is wrong.

Note that JNB re-verified its font submission and confirmed that the font contains a correct shape for this particular character. It should be a code chart production mistake.

Accepted

This is the result of a mapping error. The editor wants to remind the submitters to provide their fonts with actual code positions used for the amendment. Otherwise, he has to use mapping tables or redo the internal font mapping table. Neither solution is optimal and is prone to error as attested here.

JP.E4 (editorial): Bopomofo
Shapes of three Bopomofo extended characters addition (u+031b8, u+031b9 and u+031ba) look strange; they are based on different design rules from existing Bopomofo characters. JNB requests submitter to re-confirm the design.

Propose acceptance in principle

Agree that the design is not optimal. The editor will work with the submitter to get better aligned characters.

JP.G5 (general): Emoji
Japan has several concerns on the character additions based on the so-called *emoji* proposal. Japan national body feels that we WG 2 need more study on the set before inclusion in the amendment.

Major issues and assortment of comments follow:

Noted

Because this is only the PDAM ballot, there is still time to fix concerns. However, the various opinions have been converging through several ad hoc meetings.

a) We need discussion on inclusion in the standard of the mapping information between UCS and the existing proprietary code sets used in the Japanese mobile phone operators. Some characters, e.g., EMOJI COMPATIBILITY SYMBOL-XX characters (U+1F560 to U+1F564) may be useless unless such mapping information is provided because their character names do not fully convey their connotational meaning. Some other characters, e.g., HEART-X (U+1F498 to U+1F49B), have same shape with different grey shading levels, and it is impractical to expect two or more independently developed mappings between the UCS and the same proprietary code set (with several colorful heart symbols) match because it is unclear which shading level corresponds to, say, pink.

Noted

The concerns expressed here are covered through dispositions of comments made by other NBs:

- *Mapping information will be added to the amendment as a result of disposition of comment E1 from Germany and comment T3.e from USA.*
- *Characters with various grey shading have now names including colors and a standardized hatching as a result of disposition of comment T1 from Germany and of comments T5, E3, T7, E5, T10, and E7 from Ireland.*

See details below

b) Japan national body received complaints on the representative glyphs for the *emoji* characters in the draft amendment. Some simply say that some graphics are inappropriate. Some say the shape on the draft amendment do not match with the (unspecified in the standard) original *emoji* characters. Some say 'never invent novel symbols; just use existing ones.'

Propose acceptance in principle

Note that, because the Emoji have multiple sources corresponding to the various telecommunication vendors, they don't have a unique formal representative glyph. Many other NBs have proposed further refinements to names and glyphs which appear to converge. More specific concerns/issues from the Japanese NB would be appreciated.

c) The original *emoji* proposal aimed at providing complete emoji repertory. The set in the draft amendment, however, doesn't cover all emoji characters in use in Japan. As a result, we can't guarantee so-called round trip integrity between any of the existing mobile phone operator's code set and UCS. It is questionable that adding such incomplete set is valuable.

Propose acceptance in principle

Various comments have been made to cover that issue. Comment T2 from Ireland requests one additional character (called DOUBLE CURLY LOOP). The comments T3.d and T3.e from USA also cover the same need. If all requests are accepted in principle, with the help of the source/mapping table also requested, it will be possible to verify that the set is as complete as desired by all parties.

d) For Pictorial Characters associated with Japanese folklore, the character name with "JAPANESE" should be attached to convey proper context of character. Otherwise, the users of UCS can totally misunderstand what they mean based on their English character names. Specifically,

        1F478 OGRE → JAPANESE OGRE
        1F479 GOBLIN → JAPANESE GOBLIN

Propose acceptance

This has been proposed for other characters, such as 1F38E GIRLS DOLL FESTIVAL → JAPANESE DOLLS (comment T5 from Ireland). Alternatively, an annotation could be added.

e) Some character names and the shape look inconsistent. 1F35C "STEAMING BOWL" has a note that says "ramen noodles, rice donburi", but its shape clearly denotes the noodles, but rice, so the note of "rice donburi" looks strange. 1F4E7 "PACKAGE" should be named "GIFT PACKAGE" to describe its glyph more specifically with some notes that tells how this character differs from 1F381 "WRAPPED PRESENT". U+1F4D5 VERTICAL CLOSED BOOK and U+1F4D6 OPEN BOOK seem paired characters, but their names are asymmetric on the word VERTICAL. U+1F362 SEAFOOD CASSEROLE is after the Japanese dish *oden*, but it is impossible to associate *oden* from the name seafood casserole. Also the graphic for SEAFOOD CASSEROLE doesn't show any seafood. (The shapes look an egg, konnyaku, and a cut piece of daikon (aka Chinese raddish). They are popular in *oden*, but none of them are seafood.) U+1F4A0 DIAMOND SHAPE WITH A DOT INSIDE is after the DoCoMo's character of the name *kawaii*, but it is not easy to think it is *kawaii*.

Propose acceptance in principle

This could be disposed as follows:
1F35C STEAMING BOWL: remove 'rice donburi' annotation
1F4E7 PACKAGE: add cross reference to 1F381 WRAPPED PRESENT (Irish comment E2 and T9), changing the name to GIFT PACKAGE would make the characters too close in purpose.
1F4D5 VERTICAL CLOSED BOOK → CLOSED BOOK (Irish comment T7)
1F362 SEAFOOD CASSEROLE → ODEN (Irish comment T5)
1F4A0 DIAMOND SHAPE WITH A DOT INSIDE: add 'kawaii' in annotation (maybe also cute?)

g) Characters in each group of 1F498 to 1F49B (HEART-1 to HEART-4), 1F34E to 1F34F (APPLE-1 and APPLE-2), 1F4D7 to 1F4D9 (BOOK-1 to -3), etc. seem to have the same shape and only differ in shading. An explicit reason why and how they are encoded as separate characters should be provided as a note. (Usually, such differences should be handled by other means, e.g., style or formatting attributes)

Propose acceptance in principle

Characters with various grey shading have now names including colors and a standardized hatching as a result of disposition of comment T1 from Germany and of comments T5, E3, T7, E5, T10, and E7 from Ireland. The note is provided as a block header (see comment E3 from Ireland).

United Kingdom: Positive with comments

Technical comments:

T.1. Clause 34 Row 1F0: Miscellaneous Pictographic Symbols
1F4B4 BANKNOTE WITH YEN SIGN
1F4B5 BANKNOTE WITH DOLLAR SIGN
1F4B6 BANKNOTE WITH EURO SIGN
1F4B7 <reserved>
BANKNOTE WITH POUND SIGN originally proposed for inclusion at 1F4B7 in N3607 should be added to complete the set of major world currencies represented by these characters. Note that pound sterling is the third-largest reserve currency after the US dollar and the euro, and the fourth-most-traded currency in the foreign exchange market after the US dollar, the euro and the Japanese yen.
Propose acceptance
Also requested by comment T8 from Ireland.

T.2. Clause 34 Row 1F7: Alchemical Symbols
1F70D ALCHEMICAL SYMBOL FOR SULFUR
1F70E ALCHEMICAL SYMBOL FOR PHILOSOPHERS SULFUR
1F70F ALCHEMICAL SYMBOL FOR BLACK SULFUR
1F715 ALCHEMICAL SYMBOL FOR NITER
1F76C ALCHEMICAL SYMBOL FOR BATH OF VAPORS
As the proposed repertoire of alchemical symbols is largely based on the usage of Newton and other 17th century authors, it is inappropriate to use modern American spellings for the names of the above characters. WG2 N3584 Figs. 1 and 2 show that the original 17th century documents that the proposal is based on use the spelling "sulphur". Therefore we suggest changing the names of these characters to use customary British English spellings.
Proposed new names:
1F70D ALCHEMICAL SYMBOL FOR SULPHUR
1F70E ALCHEMICAL SYMBOL FOR PHILOSOPHERS SULPHUR
1F70F ALCHEMICAL SYMBOL FOR BLACK SULPHUR
1F715 ALCHEMICAL SYMBOL FOR NITRE
1F76C ALCHEMICAL SYMBOL FOR BATH OF VAPOURS
Propose acceptance
Also requested by comment T18 from Ireland.

T.3. Clause 34 Row 1F7: Alchemical Symbols
1F722 SUBLIMATE OF COPPER
Change the name of 1F722 to be consistent with all other characters in this block.
Proposed new name:
ALCHEMICAL SYMBOL FOR SUBLIMATE OF COPPER
Propose acceptance

USA: Negative

The U.S. National Body is voting No with comments on the following SC2 ballot: SC2 N4078: Information technology ‑ Universal Multiple‑Octet Coded Character Set (UCS) ‑ AMENDMENT 8: Additional symbols, Bamum supplement, CJK Unified Ideographs Extension D, and other characters. If comments T.3.d, T.3.e., and T5 are accommodated, the U.S. will change its vote to Yes..

Technical comments:

T.1. Malayalam
During the review of the ballot, the U.S. determined that one more character was required for Malayalam. As a result, the U.S. requests the following character be added to this amendment:
U+0D4E MALAYALAM LETTER DOT REPH. The glyph, rationale, and properties are provided in N3676 (L2/09-245).
Propose acceptance

T.2. Miscellaneous Symbols
While reviewing the 2600 block, which includes a new zodiacal symbol, OPHIUCHUS, U.S. noted an additional character was missing. As a result, the U.S. requests the addition of one character, U+26E2 ASTRONOMICAL SYMBOL FOR URANUS, with glyph and background as given in N3672 (L2/09-300).
Propose acceptance
See also comment T1 from Ireland.

T.3. Miscellaneous Pictographic Symbols
The U.S. requests a series of changes to characters in Miscellaneous Pictographic Symbols.

a. Change the following three character names:
Change U+1F4AA FLEXED BICEP to: FLEXED BICEPS
(Rationale: biceps is the Oxford English Dictionary form for the singular)
Change U+1F69A TRUCK to: DELIVERY TRUCK
(Rationale: the name change serves to differentiate it from U+26DF BLACK TRUCK)
Change U+1F3A5 MOVIES to: MOVIE CAMERA
(Rationale: the character represents a camera, not a projector; "movie camera" is unambiguous)
Propose acceptance
See also Irish comment T7 (1F4AA), disposition of comment T15 (1F69A), and comment T5 (1F3A5) .

b. Change the annotation for U+1F3A5 MOVIE CAMERA (with the new name, as above) from "film, movie projector" to "film, movies" (Rationale: this better reflects its use in the Japanese sources)
Propose acceptance
See also Irish comment T5.

c. Make three glyph changes:
U+1F526 BOOKMARK
(Rationale: make the glyph appear more like a bookmark, and not a luggage tag or a sales tag)
U+1F3A5 MOVIE CAMERA
(Rationale: see above)
U+1F420 CAMEL
(Rationale: the representative symbol should be a 2-hump camel which is reflected in the Japanese sources)
Propose acceptance in principle
See also Irish comment E7 (1F526), E3 (1F3A5), and disposition of comment T7and E5 (1F420). See also disposition of comment T10 from Germany concerning the 'Camel' symbols.

d. Add the following eleven characters to this amendment as listed below:

1F565 EMOJI COMPATIBILITY SYMBOL-6
* represents KDDI Emoji #703
* represents Softbank Emoji #430
= e-4ED
1F566 EMOJI COMPATIBILITY SYMBOL-7
* represents KDDI Emoji #700
* represents Softbank Emoji #425
= e-4E8
1F567 EMOJI COMPATIBILITY SYMBOL-8
* represents KDDI Emoji #366
* represents Softbank Emoji #428
= e-4EB
1F568 EMOJI COMPATIBILITY SYMBOL-9
* represents KDDI Emoji #499
* represents Softbank Emoji #424
= e-4E7
1F569 EMOJI COMPATIBILITY SYMBOL-10
* represents KDDI Emoji #702
* represents Softbank Emoji #427
= e-4EA
1F56A EMOJI COMPATIBILITY SYMBOL-11
* represents KDDI Emoji #701
* represents Softbank Emoji #426
= e-4E9
1F56B EMOJI COMPATIBILITY SYMBOL-12
* represents KDDI Emoji #237
* represents Softbank Emoji #422
= e-4E5
1F56C EMOJI COMPATIBILITY SYMBOL-13
* represents KDDI Emoji #704
* represents Softbank Emoji #431
= e-4EE
1F56D EMOJI COMPATIBILITY SYMBOL-14
* represents KDDI Emoji #367
* represents Softbank Emoji #429
= e-4EC
1F56E EMOJI COMPATIBILITY SYMBOL-15
* represents KDDI Emoji #90
* represents Softbank Emoji #423
= e-4E6
1F56F EMOJI COMPATIBILITY SYMBOL-16
* represents docomo Emoji #122
= e-82B
The glyphs for the above eleven characters should be dashed boxes with text on two lines, "EC" on the top and the numbers ranging from 6..16 on the bottom, similar to U+FFFC and U+1680.
WG2 discussion
*The 10 first characters are related to the comment T23 from Germany. This should be disposed by considering either this request, or document WG2 N3680. In all cases, the mapping information should not be provided by annotation of the form: * represents Softbank/docomo/KDDI Emoji #xxx, but instead by a linked reference file as requested in comment T3.e.*
The eleventh character 1F56F EMOJI COMPATIBILITY SYMBOL-16 is also proposed in Irish comment E7 as 27BF DOUBLE CURLY LOOP which seems a better solution. See also disposition of comment JP.G5c) from Japan.

e. The U.S. requests the inclusion of the emoji source data as documented in L2/09-078=N3585, as a linked data file named EmojiSources.txt, and addition of an appropriate clause in the standard that refers to the data file.
Propose acceptance
See also disposition of comment JP.G5a) from Japan.

T.4. Latin Extended D
The U.S. requests eight phonetic subscripts located at the codepoint locations U+A7F2–U+A7F9 in the Latin Extended D block be moved to the Superscripts and Subscripts block, where they will be included with other subscripts, and hence be more discoverable.
The characters are (with newly proposed codepoints):
2095 LATIN SUBSCRIPT SMALL LETTER H
2096 LATIN SUBSCRIPT SMALL LETTER K
2097 LATIN SUBSCRIPT SMALL LETTER L
2098 LATIN SUBSCRIPT SMALL LETTER M
2099 LATIN SUBSCRIPT SMALL LETTER N
209A LATIN SUBSCRIPT SMALL LETTER P
209B LATIN SUBSCRIPT SMALL LETTER S
209C LATIN SUBSCRIPT SMALL LETTER T
Propose acceptance

T.5. Latin Extended D
The U.S. requests the removal of U+A78F LATIN LETTER MIDDLE DOT as we feel this character is unnecessary. Justification for this request is contained in N3678 (L2/09-278).
WG2 discussion
See also opposite view exposed in comment T3 from Ireland.

T.6. Source Data for Ideographs
The U.S. strongly recommends that documentation of the source references for Ext. D be provided. In order for Extension D to be included as part of an international standard, we feel that it is necessary to provide clear and complete source information in the form of a short summary of how to interpret the source data supplied in the Extension D document itself. This information is critical to properly interpret the characters in the Extension. For example, this summary could state that U-source data refer to the character's index within UTR #45, with a URI indicating where UTR #45 can be found.
WG2 discussion
The editor is unsure of what is requested. The summary suggested for the U-source is part of the standard since Amendment 5 (introduction of CJK Extension C). The only thing that could be added is an URI for UTR #45. The other new sources for CJK Extension D use a referencing format similar to previous sources mentioned by the standards. More guidance is requested for action.

Appendix – Preliminary draft charts

The following pages show preliminary charts as amended by the draft disposition of comments. Only pages that have changed or discussed through the disposition are shown. For example, the Bamum Supplement received no comments and is not shown in these pages.

Only characters names, glyphs changes that were proposed to be accepted are shown along with other pdam8 content in the same block. Please follow the draft disposition for the details. As a matter of principle, large move requests were not included to facilitate comparison with the pdam8 original charts.

The charts are only a help to make easier to follow the disposition. They do not preclude any further changes resulting of the disposition of comments made during the WG2 meeting in Tokyo.

They may include additions (for example Latin extended D block) which were not yet discussed by WG2 experts.

	0D0	0D1	0D2	0D3	0D4	0D5	0D6	0D7
0								
1								
2								
3								
4								
5								
6								
7								
8								
9								
A								
B								
C								
D								
E						ं 0D4E		
F								
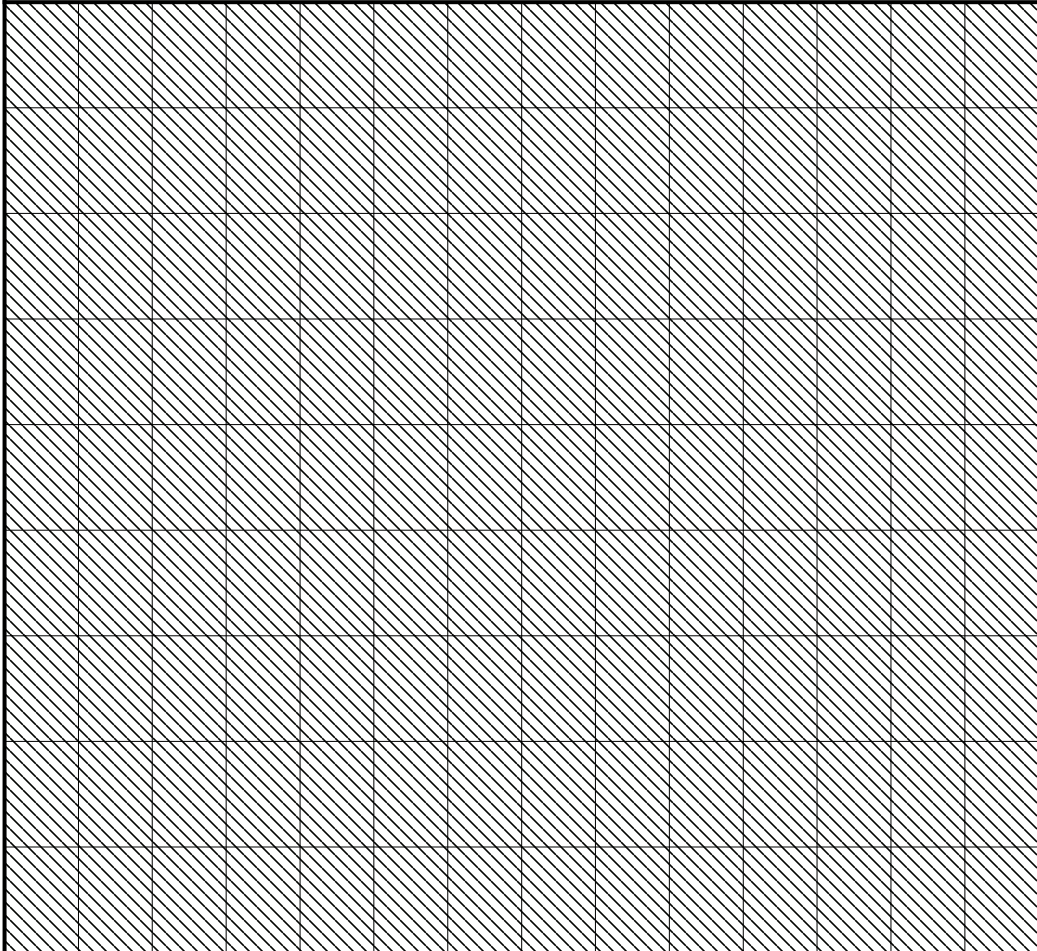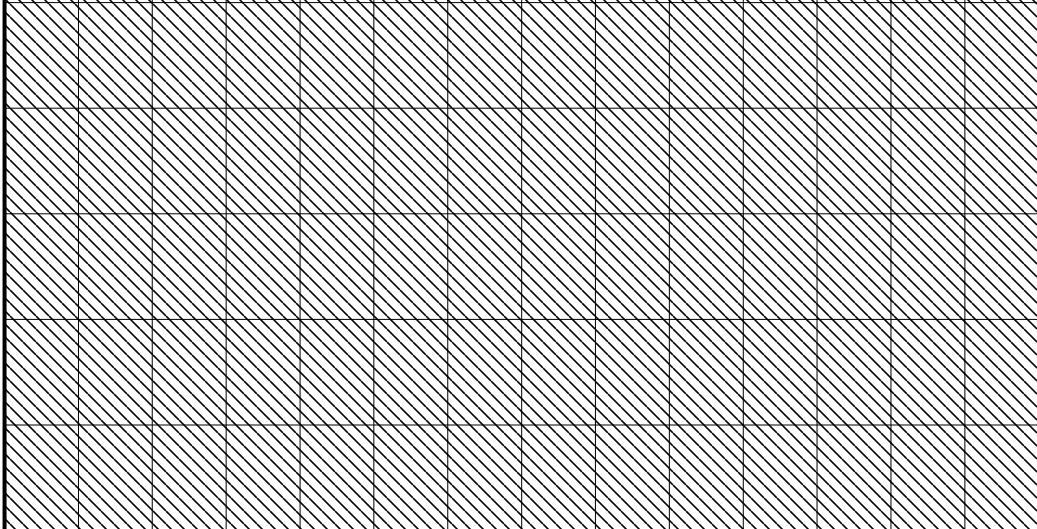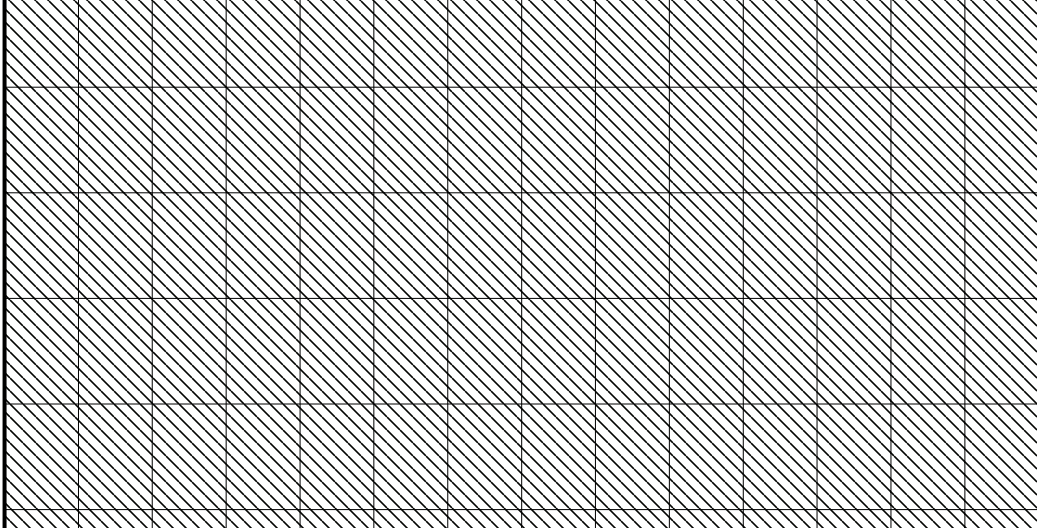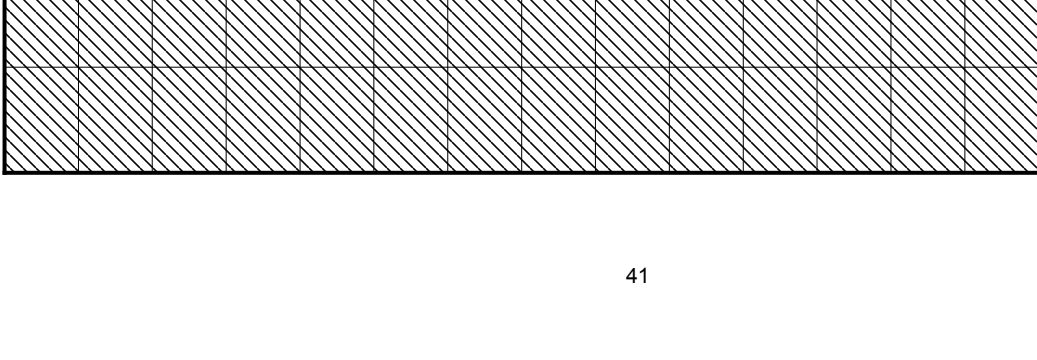
Dot-Reph

0D4E   ○̊   MALAYALAM LETTER DOT REPH

	207	208	209
0			
1			
2			
3			
4			
5			h 2095
6			k 2096
7			l 2097
8			m 2098
9			n 2099
A			p 209A
B			s 209B
C			t 209C
D			
E			
F			

UPA subscripts

2095	$_h$	LATIN SUBSCRIPT SMALL LETTER H
2096	$_k$	LATIN SUBSCRIPT SMALL LETTER K
2097	$_l$	LATIN SUBSCRIPT SMALL LETTER L
2098	$_m$	LATIN SUBSCRIPT SMALL LETTER M
2099	$_n$	LATIN SUBSCRIPT SMALL LETTER N
209A	$_p$	LATIN SUBSCRIPT SMALL LETTER P
209B	$_s$	LATIN SUBSCRIPT SMALL LETTER S
209C	$_t$	LATIN SUBSCRIPT SMALL LETTER T

	230	231	232	233	234	235	236	237	238	239	23A	23B	23C	23D	23E	23F
0																⏰ 23F0
1																⏱ 23F1
2																⏲ 23F2
3																⌛ 23F3
4																
5																
6																
7																
8																
9															⏩ 23E9	
A															⏪ 23EA	
B															⏫ 23EB	
C															⏬ 23EC	
D															⏭ 23ED	
E															⏮ 23EE	
F															⏯ 23EF	

User interface symbols

23E9 ▶▶ BLACK RIGHT-POINTING DOUBLE TRIANGLE
= fast forward
= e-AFE

23EA ◀◀ BLACK LEFT-POINTING DOUBLE TRIANGLE
= fast rewind
= e-AFF

23EB ⏫ BLACK UP-POINTING DOUBLE TRIANGLE
= e-B03

23EC ⏬ BLACK DOWN-POINTING DOUBLE TRIANGLE
= e-B02

23ED ⏭ BLACK RIGHT-POINTING DOUBLE TRIANGLE
WITH VERTICAL BAR

23EE ⏮ BLACK LEFT-POINTING DOUBLE TRIANGLE
WITH VERTICAL BAR

23EF ⏯ BLACK RIGHT-POINTING TRIANGLE WITH
DOUBLE VERTICAL BAR

23F0 ⏰ ALARM CLOCK
= e-02A

23F1 ⏱ STOPWATCH

23F2 ⏲ TIMER CLOCK

23F3 ⏳ HOURGLASS WITH FLOWING SAND
→ 231B ⌛ hourglass
= e-01B

	260	261	262	263	264	265	266	267	268	269	26A	26B	26C	26D	26E	26F
0																
1																
2															☉ 26E2	
3																
4															☆ 26E4	
5															☆ 26E5	
6															☆ 26E6	
7															⛧ 26E7	
8																
9																
A																
B																
C																
D																
E													⚮ 26CE			
F																

Zodiacal symbol

26CE ♎ OPHIUCHUS
= e-037

Astronomical symbol

26E2 ♅ ASTRONOMICAL SYMBOL FOR URANUS
→ 2645 ♅ uranus

Pentagram symbols

26E4 ☆ PENTAGRAM
= pentalpha, pentangle
• mystic or occult symbol
• symbol of various uses, including symbol on Moroccan flag
→ 2606 ☆ white star

26E5 ☆ RIGHT-HANDED INTERLACED PENTAGRAM
• mystic or occult symbol
• symbol of various countries, including Morocco
→ 269D ☆ outlined white star

26E6 ☆ LEFT-HANDED INTERLACED PENTAGRAM
• mystic or occult symbol
• symbol of various countries, including Ethiopia
→ 269D ☆ outlined white star

26E7 ⛧ INVERTED PENTAGRAM
• mystic or occult symbol

	270	271	272	273	274	275	276	277	278	279	27A	27B
0							💬 2760					♂ 27B0
1												
2												
3						❓ 2753						
4						❔ 2754						
5	✅ 2705					❕ 2755				✚ 2795		
6										━ 2796		
7										➗ 2797		
8			✨ 2728									
9												
A	✊ 270A											
B	✋ 270B											
C					✖ 274C							
D												
E					❎ 274E							
F						❟ 275F						♋ 27BF

Miscellaneous

2705 ✅ WHITE HEAVY CHECK MARK
→ 2714 ✔ heavy check mark
= e-B4A

2706 ▨ \<reserved\>
2707 ▨ \<reserved\>
2708 ▨ \<reserved\>
2709 ▨ \<reserved\>

270A ✊ RAISED FIST
= rock in Rock, Paper, Scissors game
→ 270B ✋ raised hand
→ 270C ✌ victory hand
= e-B93

270B ✋ RAISED HAND
= paper in Rock, Paper, Scissors game
→ 270A ✊ raised fist
→ 270C ✌ victory hand
= e-B95

Stars, asterisks and snowflakes

2728 ✨ SPARKLES
= e-B60

Miscellaneous

274C ✖ CROSS MARK
• forms a pair with 2B55 ⭕ heavy large circle
= e-B45

274D ▨ \<reserved\>

274E ❎ NEGATIVE SQUARED CROSS MARK
= e-B46

274F ▨ \<reserved\>
2750 ▨ \<reserved\>
2751 ▨ \<reserved\>
2752 ▨ \<reserved\>

2753 ❓ BLACK QUESTION MARK ORNAMENT
= e-B09

2754 ❔ WHITE QUESTION MARK ORNAMENT
= e-B0A

2755 ❕ WHITE EXCLAMATION MARK ORNAMENT
→ 2762 ❗ heavy exclamation mark ornament
→ 2757 ❗ heavy exclamation mark symbol
= e-B0B

Punctuation ornaments

275F ❟ HEAVY LOW SINGLE COMMA QUOTATION MARK ORNAMENT
→ 201A ‚ single low-9 quotation mark

2760 ❠ HEAVY LOW DOUBLE COMMA QUOTATION MARK ORNAMENT
→ 201E „ double low-9 quotation mark

Arithmetic symbols

2795 ➕ HEAVY PLUS SIGN
= e-B51

2796 ➖ HEAVY MINUS SIGN
= e-B52

2797 ➗ HEAVY DIVISION SIGN
= e-B54

Curly loop

27B0 ➰ CURLY LOOP
= kuturi
= e-B08

Curly loop

27BF ➿ DOUBLE CURLY LOOP

	27C	27D	27E
0			
1			
2			
3			
4			
5			
6			
7			
8			
9			
A			
B			
C			
D			
E	△ 27CE		
F	▽ 27CF		

Operators

27CE   ☒   SQUARED LOGICAL AND
     = box min
     • morphological min product operator
     • morphological erosion operator
     • additive minimum operator

27CF   ☑   SQUARED LOGICAL OR
     = box max
     • morphological max product operator
     • morphological dilation operator
     • additive maximum operator

Extended Bopomofo for Hmu and Ge

31B8	Ƶ	BOPOMOFO LETTER GH
31B9	∟	BOPOMOFO LETTER LH
31BA	+	BOPOMOFO LETTER ZY

	A72	A73	A74	A75	A76	A77	A78	A79	A7A	A7B	A7C	A7D	A7E	A7F
0								N̦ A790	Ǥ A7A0					
1								n̦ A791	ǥ A7A1					
2									Ꝁ A7A2					
3									ꝁ A7A3					
4									N A7A4					
5									n A7A5					
6									Ꝛ A7A6					
7									ꝛ A7A7					
8									Ꞩ A7A8					
9									ꞩ A7A9					
A														Ш A7FA
B														
C														
D														
E														
F							· A78F							

Transliteration letter

A78F   ·   LATIN LETTER MIDDLE DOT
             • used for transliteration for Phags-Pa and
               phonetic transcription for Tangut
             → 00B7 · middle dot

UPA letters

A790   N   LATIN CAPITAL LETTER N WITH DESCENDER
             → 014A Ŋ latin capital letter eng
A791   ɳ   LATIN SMALL LETTER N WITH DESCENDER

Latvian letters for pre-1921 orthography

A7A0   Ǥ   LATIN CAPITAL LETTER G WITH OBLIQUE
             STROKE
A7A1   ǥ   LATIN SMALL LETTER G WITH OBLIQUE STROKE
A7A2   Ꝁ   LATIN CAPITAL LETTER K WITH OBLIQUE
             STROKE
A7A3   ꝁ   LATIN SMALL LETTER K WITH OBLIQUE STROKE
A7A4   Ꞥ   LATIN CAPITAL LETTER N WITH OBLIQUE
             STROKE
A7A5   ꞥ   LATIN SMALL LETTER N WITH OBLIQUE STROKE
A7A6   Ꞧ   LATIN CAPITAL LETTER R WITH OBLIQUE
             STROKE
A7A7   ꞧ   LATIN SMALL LETTER R WITH OBLIQUE STROKE
A7A8   Ꞩ   LATIN CAPITAL LETTER S WITH OBLIQUE
             STROKE
             • also used in pre-1950 Lower Sorbian
               orthography
A7A9   ꞩ   LATIN SMALL LETTER S WITH OBLIQUE STROKE
             → 1E9C ẜ latin small letter long s with diagonal
               stroke

UPA letter

A7FA   ꟺ   LATIN LETTER SMALL CAPITAL TURNED M

	1F10	1F11	1F12	1F13	1F14	1F15	1F16	1F17	1F18	1F19	1F1A	1F1B	1F1C	1F1D	1F1E	1F1F
0				Ⓐ 1F130	Ⓠ 1F140	🅐 1F150	🅠 1F160	🅰 1F170	🆀 1F180							
1					Ⓡ 1F141	🅑 1F151	🅡 1F161	🅱 1F171	🆁 1F181	CL 1F191						
2				Ⓒ 1F132		🅒 1F152	🅢 1F162	🅲 1F172	🆂 1F182	COOL 1F192						
3				Ⓓ 1F133	Ⓣ 1F143	🅓 1F153	🅣 1F163	🅳 1F173	🆃 1F183	FREE 1F193						
4				Ⓔ 1F134	Ⓤ 1F144	🅔 1F154	🅤 1F164	🅴 1F174	🆄 1F184	ID 1F194						
5				Ⓕ 1F135	Ⓥ 1F145	🅕 1F155	🅥 1F165	🅵 1F175	🆅 1F185	NEW 1F195						
6				Ⓖ 1F136		🅖 1F156	🅦 1F166	🅶 1F176	🆆 1F186	NG 1F196						
7				Ⓗ 1F137	Ⓧ 1F147		🅧 1F167	🅷 1F177	🆇 1F187	OK 1F197						
8				Ⓘ 1F138	Ⓨ 1F148	🅘 1F158	🅨 1F168	🅸 1F178	🆈 1F188	SOS 1F198						
9				Ⓙ 1F139	Ⓩ 1F149	🅙 1F159	🅩 1F169		🆉 1F189	UP! 1F199						
A				Ⓚ 1F13A		🅚 1F15A		🅺 1F17A		VS 1F19A						
B				Ⓛ 1F13B		🅛 1F15B										
C				Ⓜ 1F13C		🅜 1F15C										
D						🅝 1F15D		🅽 1F17D								
E				Ⓞ 1F13E		🅞 1F15E		🅾 1F17E	🆎 1F18E							
F					WC 1F14F				WC 1F18F							

Squared Latin letters

1F130   A   SQUARED LATIN CAPITAL LETTER A
     = Anreisetag (day of arrival)
     ≈ <square> 0041 A

1F131   <reserved>

1F132   C   SQUARED LATIN CAPITAL LETTER C
     ≈ <square> 0043 C

1F133   D   SQUARED LATIN CAPITAL LETTER D
     ≈ <square> 0044 D

1F134   E   SQUARED LATIN CAPITAL LETTER E
     ≈ <square> 0045 E

1F135   F   SQUARED LATIN CAPITAL LETTER F
     ≈ <square> 0046 F

1F136   G   SQUARED LATIN CAPITAL LETTER G
     ≈ <square> 0047 G

1F137   H   SQUARED LATIN CAPITAL LETTER H
     ≈ <square> 0048 H

1F138   I   SQUARED LATIN CAPITAL LETTER I
     ≈ <square> 0049 I

1F139   J   SQUARED LATIN CAPITAL LETTER J
     ≈ <square> 004A J

1F13A   K   SQUARED LATIN CAPITAL LETTER K
     ≈ <square> 004B K

1F13B   L   SQUARED LATIN CAPITAL LETTER L
     ≈ <square> 004C L

1F13C   M   SQUARED LATIN CAPITAL LETTER M
     ≈ <square> 004D M

1F13D   <reserved>

1F13E   O   SQUARED LATIN CAPITAL LETTER O
     ≈ <square> 004F O

1F13F   <reserved>

1F140   Q   SQUARED LATIN CAPITAL LETTER Q
     ≈ <square> 0051 Q

1F141   R   SQUARED LATIN CAPITAL LETTER R
     ≈ <square> 0052 R

1F142   <reserved>

1F143   T   SQUARED LATIN CAPITAL LETTER T
     = tobacconist
     ≈ <square> 0054 T

1F144   U   SQUARED LATIN CAPITAL LETTER U
     ≈ <square> 0055 U

1F145   V   SQUARED LATIN CAPITAL LETTER V
     ≈ <square> 0056 V

1F146   <reserved>

1F147   X   SQUARED LATIN CAPITAL LETTER X
     ≈ <square> 0058 X

1F148   Y   SQUARED LATIN CAPITAL LETTER Y
     ≈ <square> 0059 Y

1F149   Z   SQUARED LATIN CAPITAL LETTER Z
     ≈ <square> 005A Z

1F14A   <reserved>

1F14B   <reserved>

1F14C   <reserved>

1F14D   <reserved>

1F14E   <reserved>

1F14F   WC   SQUARED WC
     = water closet, public toilet
     ≈ <square> 0057 W 0043 C

White on black circled Latin letters

1F150   Ⓐ   NEGATIVE CIRCLED LATIN CAPITAL LETTER A
     = airport

1F151   Ⓑ   NEGATIVE CIRCLED LATIN CAPITAL LETTER B

1F152   Ⓒ   NEGATIVE CIRCLED LATIN CAPITAL LETTER C

1F153   Ⓓ   NEGATIVE CIRCLED LATIN CAPITAL LETTER D

1F154   Ⓔ   NEGATIVE CIRCLED LATIN CAPITAL LETTER E

1F155   Ⓕ   NEGATIVE CIRCLED LATIN CAPITAL LETTER F
     = ferry

1F156   Ⓖ   NEGATIVE CIRCLED LATIN CAPITAL LETTER G

1F157   <reserved>

1F158   Ⓘ   NEGATIVE CIRCLED LATIN CAPITAL LETTER I

1F159   Ⓙ   NEGATIVE CIRCLED LATIN CAPITAL LETTER J

1F15A   Ⓚ   NEGATIVE CIRCLED LATIN CAPITAL LETTER K
     = Kurort (spa)

1F15B   Ⓛ   NEGATIVE CIRCLED LATIN CAPITAL LETTER L
     = light rail

1F15C   Ⓜ   NEGATIVE CIRCLED LATIN CAPITAL LETTER M
     = metro

1F15D   Ⓝ   NEGATIVE CIRCLED LATIN CAPITAL LETTER N

1F15E   Ⓞ   NEGATIVE CIRCLED LATIN CAPITAL LETTER O

1F15F   <reserved>

1F160   Ⓠ   NEGATIVE CIRCLED LATIN CAPITAL LETTER Q

1F161   Ⓡ   NEGATIVE CIRCLED LATIN CAPITAL LETTER R
     = Raststätte (rest stop)

1F162   Ⓢ   NEGATIVE CIRCLED LATIN CAPITAL LETTER S
     = Stadtbahn (metropolitan railway)

1F163   Ⓣ   NEGATIVE CIRCLED LATIN CAPITAL LETTER T
     = Tankstelle (petrol station)

1F164   Ⓤ   NEGATIVE CIRCLED LATIN CAPITAL LETTER U
     = underground rail

1F165   Ⓥ   NEGATIVE CIRCLED LATIN CAPITAL LETTER V

1F166   Ⓦ   NEGATIVE CIRCLED LATIN CAPITAL LETTER W

1F167   Ⓧ   NEGATIVE CIRCLED LATIN CAPITAL LETTER X

1F168   Ⓨ   NEGATIVE CIRCLED LATIN CAPITAL LETTER Y

1F169   Ⓩ   NEGATIVE CIRCLED LATIN CAPITAL LETTER Z

White on black squared Latin letters

1F170   🅰   NEGATIVE SQUARED LATIN CAPITAL LETTER A
     = blood type A
     = e-50B

1F171   🅱   NEGATIVE SQUARED LATIN CAPITAL LETTER B
     = blood type B
     = e-50C

1F172   🅲   NEGATIVE SQUARED LATIN CAPITAL LETTER C
     = centre, city centre

1F173   🅳   NEGATIVE SQUARED LATIN CAPITAL LETTER D

1F174   🅴   NEGATIVE SQUARED LATIN CAPITAL LETTER E

1F175   🅵   NEGATIVE SQUARED LATIN CAPITAL LETTER F
     = Feuerwache (fire department)

1F176   🅶   NEGATIVE SQUARED LATIN CAPITAL LETTER G

1F177   🅷   NEGATIVE SQUARED LATIN CAPITAL LETTER H
     = Haltestelle (bus stop)

1F178   🅸   NEGATIVE SQUARED LATIN CAPITAL LETTER I

1F179   <reserved>

1F17A   🅺   NEGATIVE SQUARED LATIN CAPITAL LETTER K

1F17B   <reserved>

1F17C   <reserved>

1F17D   🅽   NEGATIVE SQUARED LATIN CAPITAL LETTER N

1F17E   🅾   NEGATIVE SQUARED LATIN CAPITAL LETTER O
     = blood type O
     = e-50E

1F17F   <reserved>

1F180   🆀   NEGATIVE SQUARED LATIN CAPITAL LETTER Q

1F181   🆁   NEGATIVE SQUARED LATIN CAPITAL LETTER R

1F182   🆂   NEGATIVE SQUARED LATIN CAPITAL LETTER S

1F183 ⊤ NEGATIVE SQUARED LATIN CAPITAL LETTER T
1F184 U NEGATIVE SQUARED LATIN CAPITAL LETTER U
1F185 V NEGATIVE SQUARED LATIN CAPITAL LETTER V
1F186 W NEGATIVE SQUARED LATIN CAPITAL LETTER W
1F187 X NEGATIVE SQUARED LATIN CAPITAL LETTER X
1F188 Y NEGATIVE SQUARED LATIN CAPITAL LETTER Y
1F189 Z NEGATIVE SQUARED LATIN CAPITAL LETTER Z
1F18A ▨ \<reserved\>
1F18B ▨ \<reserved\>
1F18C ▨ \<reserved\>
1F18D ▨ \<reserved\>
1F18E AB NEGATIVE SQUARED AB
       = blood type AB
       = e-50D
1F18F WC NEGATIVE SQUARED WC
       = water closet, public toilet

Square Latin letters

1F191 CL SQUARED CL
       = clear
       = e-B84
1F192 COOL SQUARED COOL
       = e-B38
1F193 FREE SQUARED FREE
       = free postage
       = e-B21
1F194 ID SQUARED ID
       = identification, ID
       = e-B81
1F195 NEW SQUARED NEW
       = e-B36
1F196 NG SQUARED NG
       = no good
       = e-B28
1F197 OK SQUARED OK
       = e-B27
1F198 SOS SQUARED SOS
       = search, hunt for missing person
       = e-B4F
1F199 UP! SQUARED UP WITH EXCLAMATION MARK
       = new information, update
       = e-B37
1F19A VS SQUARED VS
       = versus
       = e-B32

	1F20	1F21	1F22	1F23	1F24	1F25	1F26	1F27	1F28	1F29	1F2A	1F2B	1F2C	1F2D	1F2E	1F2F
0						得 1F250										
1	ココ 1F201					可 1F251										
2	サ 1F202			禁 1F232												
3				空 1F233												
4				合 1F234												
5				満 1F235												
6				有 1F236												
7				月 1F237												
8				申 1F238												
9				割 1F239												
A				営 1F23A												
B																
C																
D																
E																
F																

Square katakanas

1F201 ㋐ SQUARED KATAKANA KOKO
= here sign
≈ \<square> 30B3 コ 30B3 コ
= e-B24

1F202 ㋚ SQUARED KATAKANA SA
= service sign
→ 32DA ㋚ circled katakana sa
≈ \<square> 30B5 サ
= e-B3F

Squared ideographs

1F232 ㊨ SQUARED CJK UNIFIED IDEOGRAPH-7981
= prohibited sign
≈ \<square> 7981 禁
= e-B2E

1F233 ㊨ SQUARED CJK UNIFIED IDEOGRAPH-7A7A
= empty sign
≈ \<square> 7A7A 空
= e-B2F

1F234 ㊨ SQUARED CJK UNIFIED IDEOGRAPH-5408
= passed sign
≈ \<square> 5408 合
= e-B30

1F235 ㊨ SQUARED CJK UNIFIED IDEOGRAPH-6E80
= full sign
≈ \<square> 6E80 満
= e-B31

1F236 ㊨ SQUARED CJK UNIFIED IDEOGRAPH-6709
= existence sign
→ 3292 ㊒ circled ideograph have
≈ \<square> 6709 有
= e-B39

1F237 ㊨ SQUARED CJK UNIFIED IDEOGRAPH-6708
= monthly sign
→ 328A ㊊ circled ideograph moon
≈ \<square> 6708 月
= e-B3B

1F238 ㊨ SQUARED CJK UNIFIED IDEOGRAPH-7533
= application sign
≈ \<square> 7533 申
= e-B3C

1F239 ㊨ SQUARED CJK UNIFIED IDEOGRAPH-5272
= discount sign
≈ \<square> 5272 割
= e-B3E

1F23A ㊨ SQUARED CJK UNIFIED IDEOGRAPH-55B6
= in business sign
≈ \<square> 55B6 営
= e-B41

Circled ideographs

1F250 ㊐ CIRCLED IDEOGRAPH ADVANTAGE
= advantage sign
≈ \<circle> 5F97 得
= e-B3D

1F251 ㊐ CIRCLED IDEOGRAPH ACCEPT
= accept sign
≈ \<circle> 53EF 可
= e-B50

	1F30	1F31	1F32	1F33	1F34	1F35	1F36	1F37	1F38	1F39	1F3A	1F3B	1F3C	1F3D	1F3E	1F3F
0	1F300	1F310	1F320	1F330	1F340	1F350	1F360	1F370	1F380	1F390	1F3A0	1F3B0	1F3C0		1F3E0	1F3F0
1	1F301	1F311		1F331	1F341	1F351	1F361	1F371	1F381	1F391	1F3A1	1F3B1	1F3C1		1F3E1	
2	1F302	1F312		1F332	1F342	1F352	1F362	1F372	1F382	1F392	1F3A2	1F3B2	1F3C2		1F3E2	
3	1F303	1F313		1F333	1F343	1F353	1F363	1F373	1F383	1F393	1F3A3	1F3B3	1F3C3		1F3E3	
4	1F304	1F314		1F334	1F344	1F354	1F364	1F374	1F384		1F3A4	1F3B4	1F3C4		1F3E4	
5	1F305	1F315		1F335	1F345	1F355	1F365	1F375	1F385		1F3A5	1F3B5			1F3E5	
6	1F306	1F316			1F346	1F356	1F366	1F376	1F386		1F3A6	1F3B6	1F3C6		1F3E6	
7	1F307	1F317		1F337	1F347	1F357	1F367	1F377	1F387		1F3A7	1F3B7	1F3C7		1F3E7	
8	1F308	1F318		1F338	1F348	1F358	1F368	1F378	1F388		1F3A8	1F3B8	1F3C8		1F3E8	
9	1F309	1F319		1F339	1F349	1F359	1F369	1F379	1F389		1F3A9	1F3B9	1F3C9		1F3E9	
A	1F30A	1F31A		1F33A	1F34A	1F35A	1F36A	1F37A	1F38A		1F3AA	1F3BA	1F3CA		1F3EA	
B	1F30B	1F31B		1F33B	1F34B	1F35B	1F36B	1F37B	1F38B		1F3AB	1F3BB			1F3EB	
C	1F30C	1F31C		1F33C	1F34C	1F35C	1F36C	1F37C	1F38C		1F3AC	1F3BC			1F3EC	
D	1F30D	1F31D		1F33D	1F34D	1F35D	1F36D		1F38D		1F3AD	1F3BD			1F3ED	
E	1F30E	1F31E		1F33E	1F34E	1F35E	1F36E		1F38E		1F3AE	1F3BE			1F3EE	
F	1F30F	1F31F		1F33F	1F34F	1F35F	1F36F		1F38F		1F3AF	1F3BF			1F3EF	

	1F40	1F41	1F42	1F43	1F44	1F45	1F46	1F47	1F48	1F49	1F4A	1F4B	1F4C	1F4D	1F4E	1F4F
0	1F400	1F410	1F420	1F430	1F440	1F450	1F460	1F470	1F480	1F490	1F4A0	1F4B0	1F4C0	1F4D0	1F4E0	1F4F0
1	1F401	1F411	1F421	1F431		1F451	1F461	1F471	1F481	1F491	1F4A1	1F4B1	1F4C1	1F4D1	1F4E1	1F4F1
2	1F402	1F412	1F422	1F432	1F442	1F452	1F462	1F472	1F482	1F492	1F4A2	1F4B2	1F4C2	1F4D2	1F4E2	1F4F2
3	1F403	1F413	1F423	1F433	1F443	1F453	1F463	1F473	1F483	1F493	1F4A3	1F4B3	1F4C3	1F4D3	1F4E3	1F4F3
4	1F404	1F414	1F424	1F434	1F444	1F454	1F464	1F474	1F484	1F494	1F4A4	1F4B4	1F4C4	1F4D4	1F4E4	1F4F4
5	1F405	1F415	1F425	1F435	1F445	1F455	1F465	1F475	1F485	1F495	1F4A5	1F4B5	1F4C5	1F4D5	1F4E5	1F4F5
6	1F406	1F416	1F426	1F436	1F446	1F456	1F466	1F476	1F486	1F496	1F4A6	1F4B6	1F4C6	1F4D6	1F4E6	1F4F6
7	1F407	1F417	1F427	1F437	1F447	1F457	1F467	1F477	1F487	1F497	1F4A7	1F4B7	1F4C7	1F4D7	1F4E7	1F4F7
8	1F408	1F418	1F428	1F438	1F448	1F458	1F468	1F478	1F488	1F498	1F4A8	1F4B8	1F4C8	1F4D8	1F4E8	1F4F8
9	1F409	1F419	1F429	1F439	1F449	1F459	1F469	1F479	1F489	1F499	1F4A9	1F4B9	1F4C9	1F4D9	1F4E9	1F4F9
A	1F40A	1F41A	1F42A	1F43A	1F44A	1F45A	1F46A	1F47A	1F48A	1F49A	1F4AA	1F4BA	1F4CA	1F4DA	1F4EA	1F4FA
B	1F40B	1F41B	1F42B	1F43B	1F44B	1F45B	1F46B	1F47B	1F48B	1F49B	1F4AB	1F4BB	1F4CB	1F4DB	1F4EB	1F4FB
C	1F40C	1F41C	1F42C	1F43C	1F44C	1F45C	1F46C	1F47C	1F48C	1F49C	1F4AC	1F4BC	1F4CC	1F4DC	1F4EC	1F4FC
D	1F40D	1F41D	1F42D	1F43D	1F44D	1F45D	1F46D	1F47D	1F48D	1F49D	1F4AD	1F4BD	1F4CD	1F4DD	1F4ED	1F4FD
E	1F40E	1F41E	1F42E	1F43E	1F44E	1F45E	1F46E	1F47E	1F48E	1F49E	1F4AE	1F4BE	1F4CE	1F4DE	1F4EE	1F4FE
F	1F40F	1F41F	1F42F		1F44F	1F45F	1F46F	1F47F	1F48F	1F49F	1F4AF	1F4BF	1F4CF	1F4DF	1F4EF	1F4FF

	1F50	1F51	1F52	1F53	1F54	1F55	1F56	1F57	1F58	1F59	1F5A	1F5B	1F5C	1F5D	1F5E	1F5F
0		1F510	1F520	1F530	1F540	1F550	1F560									
1	1F501	1F511	1F521	1F531	1F541	1F551	1F561									
2		1F512	1F522	1F532	1F542	1F552	1F562									
3			1F523	1F533	1F543	1F553	1F563									
4			1F524	1F534		1F554	1F564									
5		1F515	1F525	1F535		1F555	1F565									
6		1F516	1F526	1F536		1F556	1F566									
7		1F517	1F527	1F537		1F557	1F567									
8	1F508	1F518	1F528	1F538		1F558										
9		1F519		1F539		1F559										
A	1F50A		1F52A	1F53A		1F55A										
B	1F50B		1F52B	1F53B	1F54B	1F55B										1F5FB
C	1F50C	1F51C	1F52C	1F53C	1F54C	1F55C										1F5FC
D	1F50D	1F51D	1F52D	1F53D	1F54D	1F55D										1F5FD
E	1F50E	1F51E	1F52E		1F54E	1F55E										1F5FE
F	1F50F	1F51F	1F52F			1F55F										1F5FF

In the case of characters that are associated in typical usage with a particular colour, conventions of European heraldry are used to represent those colours in monochromatic line drawings. This aspect of the representative glyphs is informative, not normative.

Weather and landscape symbols

1F300   CYCLONE
    = e-005
    = typhoon, hurricane

1F301   FOGGY
    = e-006

1F302   CLOSED UMBRELLA
    = e-007

1F303   NIGHT WITH STARS
    = e-008

1F304   SUNRISE OVER MOUNTAINS
    = e-009

1F305   SUNRISE
    = e-00A

1F306   CITYSCAPE AT DUSK
    = e-00b

1F307   SUNSET OVER BUILDINGS
    = e-00C

1F308   RAINBOW
    = e-00D

1F309   BRIDGE AT NIGHT
    = e-010

1F30A   WATER WAVE
    = e-038

1F30B   VOLCANO
    = e-03A

Astronomical symbols

1F30C   MILKY WAY
    = e-03B

1F30D   EARTH GLOBE EUROPE-AFRICA

1F30E   EARTH GLOBE AMERICAS

1F30F   EARTH GLOBE ASIA-AUSTRALIA
    = e-039

1F310   GLOBE WITH MERIDIANS
    • used to indicate international input source, word clocks with time zones, etc.

Moon, sun, and star symbols

1F311   NEW MOON SYMBOL
    = e-011

1F312   WAXING CRESCENT MOON SYMBOL

1F313   FIRST QUARTER MOON SYMBOL
    = half moon
    = e-013

1F314   WAXING GIBBOUS MOON SYMBOL
    = waxing moon
    = e-012

1F315   FULL MOON SYMBOL
    = e-015

1F316   WANING GIBBOUS MOON SYMBOL

1F317   LAST QUARTER MOON SYMBOL

1F318   WANING CRESCENT MOON SYMBOL

1F319   CRESCENT MOON
    = e-014
    • may indicate either first or last quarter moon
    → 263D ☽ first quarter moon
    → 263E ☾ last quarter moon

1F31A   NEW MOON WITH FACE

1F31B   FIRST QUARTER MOON WITH FACE
    = half moon with face
    = e-016

1F31C   LAST QUARTER MOON WITH FACE

1F31D   FULL MOON WITH FACE

1F31E   SUN WITH FACE

1F31F   GLOWING STAR
    = e-B69

1F320   SHOOTING STAR
    = e-B6A

Plant symbols

1F330   CHESTNUT
    = e-04C

1F331   SEEDLING
    = e-03E

1F332   EVERGREEN TREE

1F333   DECIDUOUS TREE

1F334   PALM TREE
    = e-047

1F335   CACTUS
    = e-048

1F336   <reserved>

1F337   TULIP
    = e-03D

1F338   CHERRY BLOSSOM
    = e-040

1F339   ROSE
    = e-041

1F33A   HIBISCUS
    = e-045

1F33B   SUNFLOWER
    = e-046

1F33C   BLOSSOM
    = daisy
    = e-04D

1F33D   EAR OF MAIZE
    = e-04A

1F33E   EAR OF RICE
    = e-049

1F33F   HERB
    = e-04E

1F340   FOUR LEAF CLOVER
    → 2618 ☘ shamrock
    = e-03C

1F341   MAPLE LEAF
    = e-03F

1F342   FALLEN LEAF
    = leaf
    = e-042

1F343   LEAF FLUTTERING IN WIND
    = e-043

1F344   MUSHROOM
    = e-04B

Fruit symbols

1F345   TOMATO
    = e-055

1F346   AUBERGINE
    = eggplant
    = e-056

1F347   GRAPES
    = e-059

1F348   MELON
    = e-057

1F349   WATERMELON
     = e-054
1F34A   TANGERINE
     = e-052
1F34B   LEMON
1F34C   BANANA
     = e-050
1F34D   PINEAPPLE
     = e-058
1F34E   RED APPLE
     = e-051
1F34F   GREEN APPLE
     = e-05B
1F350   PEAR
1F351   PEACH
     = e-05A
1F352   CHERRIES
     = e-04F
1F353   STRAWBERRY
     = e-053

Food symbols

1F354   HAMBURGER
     = fast food place
     = e-960
1F355   SLICE OF PIZZA
     = e-975
1F356   MEAT ON BONE
     = e-972
1F357   POULTRY LEG
     = e-976
1F358   RICE CRACKER
     = e-969
1F359   RICE BALL
     = e-961
1F35A   COOKED RICE
     = bowl of rice
     = e-96A
1F35B   CURRY AND RICE
     = Japanese style curry
     = e-96C
1F35C   STEAMING BOWL
     = ramen noodles
     = e-963
1F35D   SPAGHETTI
     = e-96B
1F35E   BREAD
     = e-964
1F35F   FRENCH FRIES
     = e-967
1F360   ROASTED SWEET POTATO
     = e-974
1F361   DANGO
     = mochi balls on skewer
     = e-968
1F362   ODEN
     = seafood on skewer
     = e-96D
1F363   SUSHI
     = e-96E
1F364   FRIED SHRIMP
     = e-97F
1F365   FISH CAKE WITH SWIRL DESIGN
     = e-973

1F366   SOFT ICE CREAM
     = e-966
1F367   SHAVED ICE
     = e-971
1F368   ICE CREAM
     = e-977
1F369   DOUGHNUT
     = e-978
1F36A   COOKIE
     = biscuit
     = e-979
1F36B   CHOCOLATE BAR
     = e-97A
1F36C   CANDY
     = e-97B
1F36D   LOLLIPOP
     = e-97C
1F36E   CUSTARD
     = e-97D
1F36F   HONEY POT
     = e-97E
1F370   SHORTCAKE
     = e-962
1F371   BENTO BOX
     = e-96F
1F372   POT OF FOOD
     = e-970
1F373   COOKING
     = frying pan, cooking utensil
     = e-965
1F374   FORK AND KNIFE
     = restaurant, meal
     = e-980
     • glyph may show a fork and spoon
     • glyph may show a crossed fork and knife
     • glyph may show a fork and knife with a plate

Beverage symbols

1F375   TEACUP WITHOUT HANDLE
     → 2615   hot beverage
     → 26FE   cup on black square
     = e-984
1F376   SAKE BOTTLE AND CUP
     = e-985
1F377   WINE GLASS
     = e-986
1F378   COCKTAIL GLASS
     = e-982
1F379   TROPICAL DRINK
     = e-988
1F37A   BEER MUG
     = e-983
1F37B   CLINKING BEER MUGS
     = cheers
     = e-987
1F37C   BABY BOTTLE

Celebration symbols

1F380   RIBBON
     = e-50F
1F381   WRAPPED PRESENT
     → 1F4E7   package
     = e-510
1F382   BIRTHDAY CAKE
     = e-511

1F383 ☺ JACK-O-LANTERN
= Hallowe'en
= e-51F

1F384 ☃ CHRISTMAS TREE
= e-512

1F385 ☃ FATHER CHRISTMAS
= Santa Claus
= e-513

1F386 ▓ FIREWORKS
= e-515

1F387 ▓ FIREWORK SPARKLER
• long, stick-like firework that looks like a burning incense stick
= e-51D

1F388 ♡ BALLOON
= e-516

1F389 ⁂ PARTY POPPER
= e-517

1F38A ▓ CONFETTI BALL
= congratulations
= e-520

1F38B ▓ TANABATA TREE
= tanabata tree with wishing papers
= e-521

1F38C ⚔ CROSSED FLAGS
• Japanese national holiday
= e-514

1F38D ♨ PINE DECORATION
• Japanese new year's door decoration
= e-518

1F38E ♨ JAPANESE DOLLS
= Japanese Hinamatsuri girls' festival
= e-519

1F38F ▓ CARP STREAMER
= e-51C

1F390 ♀ WIND CHIME
= e-51E

1F391 ▓ MOON VIEWING CEREMONY
= Japanese Otsukimi harvest celebration
= e-017

1F392 ▯ SCHOOL SATCHEL
• Japanese school entrance ceremony
= e-51B

1F393 ☎ GRADUATION CAP
• graduation ceremony
= e-51A

Entertainment symbols

1F3A0 ▓ CAROUSEL HORSE
= amusement park
= e-7FC

1F3A1 ▓ FERRIS WHEEL
= amusement park
= e-7FD

1F3A2 ▓ ROLLER COASTER
= e-7FE

1F3A3 ▓ FISHING POLE AND FISH
= fishing
= e-7FF

1F3A4 ▓ MICROPHONE
= karaoke
= e-800

1F3A5 ▓ MOVIE CAMERA
= film, movies
= e-801

1F3A6 ▓ CINEMA
= movie theater, movie projector
= e-802

1F3A7 ♉ HEADPHONE
= music
= e-803

1F3A8 ▓ ARTIST PALETTE
= art
= e-804

1F3A9 ▓ TOP HAT
= drama, performing arts, theater
= e-805

1F3AA ⚓ CIRCUS TENT
= event
= e-806

1F3AB ▣ TICKET
• indicates an event
= e-807

1F3AC ▓ CLAPPER BOARD
= e-808

1F3AD ▓ PERFORMING ARTS
= e-809

Game symbols

1F3AE ▓ VIDEO GAME
= video game controller
= e-80A

1F3AF ◉ DIRECT HIT
= archery target, hitting the target
→ 25CE ◎ bullseye
= e-80C

1F3B0 ▓ SLOT MACHINE
= e-80D

1F3B1 ▓ BILLIARDS
= e-80E

1F3B2 ▓ GAME DIE
= e-80F

1F3B3 ▓ BOWLING
= e-810

1F3B4 ▓ FLOWER PLAYING CARDS
= flower cards
= e-811

Music symbols

1F3B5 ♪ MUSICAL NOTE
= music, being in good mood
→ 266A ♪ eighth note
= e-813

1F3B6 ♪♪ MULTIPLE MUSICAL NOTES
= dancing notes, mood, melody
= e-814

1F3B7 ♪ SAXOPHONE
= e-815

1F3B8 ♪ GUITAR
= e-816

1F3B9 ▓ MUSICAL KEYBOARD
= e-817

1F3BA ♪ TRUMPET
= e-818

1F3BB ♪ VIOLIN
= e-819

1F3BC ▓ MUSICAL SCORE
→ 1D11E 𝄞 musical symbol g clef
= e-81A

Sport symbols

1F3BD RUNNING SHIRT WITH SASH
     = e-7D0
1F3BE TENNIS RACQUET AND BALL
     = tennis
     = e-7D3
1F3BF SKI AND SKI BOOT
     = skiing
     → 26F7 skier
     = e-7D5
1F3C0 BASKETBALL AND HOOP
     = basketball
     = e-7D6
1F3C1 CHEQUERED FLAG
     = motor sports
     = e-7D7
1F3C2 SNOWBOARDER
     = e-7D8
1F3C3 RUNNER
     = running, marathon, track and fields
     = e-7D9
1F3C4 SURFER
     = surfing
     = e-7DA
1F3C5 <reserved>
1F3C6 TROPHY
     = e-7DB
1F3C7 HORSE RACING
1F3C8 AMERICAN FOOTBALL
     = e-7DD
1F3C9 RUGBY FOOTBALL
1F3CA SWIMMER
     = e-7DE

Building and map symbols

1F3E0 HOUSE BUILDING
     = e-4B0
1F3E1 HOUSE WITH GARDEN
     = home, house with yard
     = e-4B1
1F3E2 OFFICE BUILDING
     = e-4B2
1F3E3 JAPANESE POST OFFICE
     → 3012 postal mark
     = e-4B3
1F3E4 EUROPEAN POST OFFICE
1F3E5 HOSPITAL
     = e-4B4
1F3E6 BANK
     = e-4B5
1F3E7 AUTOMATED TELLER MACHINE
     = ATM
     = e-4B6
1F3E8 HOTEL
     = e-4B7
1F3E9 LOVE HOTEL
     = e-4B8
1F3EA CONVENIENCE STORE
     = e-4B9
1F3EB SCHOOL
     = e-4BA
1F3EC DEPARTMENT STORE
     = e-4BD

1F3ED FACTORY
     = industrial production site
     = date of production
     = e-4C0
1F3EE IZAKAYA LANTERN
     = japanese izakaya restaurant
     = e-4C2
1F3EF JAPANESE CASTLE
     = e-4BE
1F3F0 EUROPEAN CASTLE
     = e-4BF

Animal symbols

1F400 DOG FACE
     = e-1B7
1F401 CAT FACE
     = e-1B8
1F402 SNAIL
     • fifth of the signs of the Asian zodiac, used in Kazakhstan
     = e-1B9
1F403 BABY CHICK
     = e-1BA
1F404 FRONT-FACING BABY CHICK
     = e-1BB
1F405 HATCHING CHICK
     = e-1DD
1F406 PENGUIN
     = e-1BC
1F407 FISH
     = e-1BD
1F408 HORSE FACE
     = e-1BE
1F409 PIG FACE
     = e-1BF
1F40A TIGER FACE
     = e-1C0
1F40B BEAR FACE
     = e-1C1
1F40C MOUSE FACE
     = e-1C2
1F40D SPOUTING WHALE
     = e-1C3
1F40E MONKEY FACE
     = e-1C4
1F40F OCTOPUS
     = e-1C5
1F410 SPIRAL SHELL
     = e-1C6
1F411 DOLPHIN
     = e-1C7
1F412 BIRD
     = e-1C8
1F413 TROPICAL FISH
     = e-1C9
1F414 HAMSTER FACE
     = e-1CA
1F415 BUG
     = e-1CB
1F416 ELEPHANT
     • twelfth of the signs of the Asian zodiac, used in Thailand
     = e-1CC
1F417 KOALA
     = e-1CD

1F418   MONKEY
- ninth of the signs of the Asian zodiac
= e-1CE

1F419   SHEEP
- eighth of the signs of the Asian zodiac, used in Persia
= e-1CF

1F41A   WOLF FACE
= e-1D0

1F41B   COW FACE
= e-1D1

1F41C   RABBIT FACE
= e-1D2

1F41D   SNAKE
- sixth of the signs of the Asian zodiac
= e-1D3

1F41E   CHICKEN
- tenth of the signs of the Asian zodiac, used in Persia
= hen
= poultry (on menus)
= e-1D4

1F41F   BOAR
- twelfth of the signs of the Asian zodiac, used in Japan
= e-1D5

1F420   CAMEL
= bactrian camel (two humps)
= e-1D6

1F421   FROG FACE
= e-1D7

1F422   POODLE
= e-1D8

1F423   BLOWFISH
= e-1D9

1F424   ANT
= e-1DA

1F425   PAW PRINTS
= e-1DB

1F426   TURTLE
= e-1DC

1F427   DRAGON FACE
= e-1DE

1F428   PANDA FACE
= e-1DF

1F429   PIG NOSE
= e-1E0

1F42A   HONEYBEE
= e-1E1

1F42B   LADY BEETLE
= ladybird, ladybug, coccinellids
= e-1E2

1F42C   COW
- second of the signs of the Asian zodiac, used in Persia
= beef (on menus)

1F42D   RAT
- first of the signs of the Asian zodiac

1F42E   MOUSE
- first of the signs of the Asian zodiac, used in Persia

1F42F   OX
- second of the signs of the Asian zodiac

1F430   WATER BUFFALO
- second of the signs of the Asian zodiac, used in Vietnam

1F431   TIGER
- third of the signs of the Asian zodiac

1F432   LEOPARD
- third of the signs of the Asian zodiac, used in Persia

1F433   CAT
- fourth of the signs of the Asian zodiac, used in Vietnam

1F434   RABBIT
- fourth of the signs of the Asian zodiac

1F435   DRAGON
- fifth of the signs of the Asian zodiac

1F436   WHALE
- fifth of the signs of the Asian zodiac, used in Persia

1F437   CROCODILE
- fifth of the signs of the Asian zodiac, used in Persia

1F438   HORSE
- seventh of the signs of the Asian zodiac
= e-7DC

1F439   RAM
- eighth of the signs of the Asian zodiac

1F43A   GOAT
- eighth of the signs of the Asian zodiac, used in Vietnam

1F43B   ROOSTER
- tenth of the signs of the Asian zodiac
= cock

1F43C   DOG
- eleventh of the signs of the Asian zodiac

1F43D   PIG
- twelfth of the signs of the Asian zodiac
= pork (on menus)

1F43E   DROMEDARY
= dromedary camel (single hump)

Facial parts symbols

1F440   EYES
= e-190

1F441   <reserved>

1F442   EAR
= e-191

1F443   NOSE
= e-192

1F444   MOUTH
= e-193

1F445   TONGUE
= e-194

Hand signal symbols

1F446   FISTED HAND SIGN
= punch
= e-B96

1F447   THUMBS UP SIGN
= e-B97

1F448   WHITE UP POINTING BACKHAND INDEX
= e-B99

1F449   WHITE DOWN POINTING BACKHAND INDEX
= e-B9A

1F44A   WHITE LEFT POINTING BACKHAND INDEX
= e-B9B

1F44B	☞	WHITE RIGHT POINTING BACKHAND INDEX
		= e-B9C
1F44C	✋	WAVING HAND SIGN
		= e-B9D
1F44D	👏	CLAPPING HANDS SIGN
		= e-B9E
1F44E	✌	OK HAND SIGN
		= e-B9F
1F44F	👎	THUMBS DOWN SIGN
		= e-BA0
1F450	👐	OPEN HANDS SIGN
		= e-BA1

Clothing and accessories

1F451	👑	CROWN
		= e-4D1
1F452	👒	WOMANS HAT
		= e-4D4
1F453	👓	EYEGLASSES
		= e-4CE
1F454	👔	NECKTIE
		= e-4D3
1F455	👕	T-SHIRT
		= e-4CF
1F456	👖	JEANS
		= e-4D0
1F457	👗	DRESS
		= e-4D5
1F458	👘	KIMONO
		= e-4D9
1F459	👙	BIKINI
		= e-4DA
1F45A	👚	WOMANS CLOTHES
		= e-4DB
1F45B	👛	PURSE
		= e-4DC
1F45C	👜	HANDBAG
		= e-4F0
1F45D	👝	POUCH
		= e-4F1
1F45E	👞	MANS SHOE
		= e-4CC
1F45F	👟	ATHLETIC SHOE
		= runner, sneaker, tennis shoe
		= e-4CD
1F460	👠	HIGH-HEELED SHOE
		= e-4D6
1F461	👡	WOMANS SANDAL
		= e-4D7
1F462	👢	WOMANS BOOTS
		= e-4D8
1F463	👣	FOOTPRINTS
		= e-553

Portrait and role symbols

1F464	👤	BUST IN SILHOUETTE
		= guest account
		= e-19A
1F465	👥	BUSTS IN SILHOUETTE
		= accounts
1F466	👦	BOY
		= e-19B
1F467	👧	GIRL
		= e-19C

1F468	👨	MAN
		= e-19D
1F469	👩	WOMAN
		= e-19E
1F46A	👪	FAMILY
		= e-19F
1F46B	👫	MAN AND WOMAN HOLDING HANDS
		= e-1A0
1F46C	👬	POLICE OFFICER
		= e-1A1
1F46D	👭	WOMAN WITH BUNNY EARS
		= e-1A2
1F46E	👮	BRIDE WITH VEIL
		= e-1A3
1F46F	👯	WESTERN PERSON
		= e-1A4
1F470	👰	TWO MEN HOLDING HANDS
1F471	👱	MAN WITH GUA PI MAO
		= e-1A5
1F472	👲	MAN WITH TURBAN
		= e-1A6
1F473	👳	OLDER MAN
		= e-1A7
1F474	👴	OLDER WOMAN
		= e-1A8
1F475	👵	BABY
		= e-1A9
1F476	👶	CONSTRUCTION WORKER
		= e-1AA

Fairy tale symbols

1F477	👷	PRINCESS
		= e-1AB
1F478	👸	JAPANESE OGRE
		= e-1AC
1F479	👹	JAPANESE GOBLIN
		= e-1AD
1F47A	👺	GHOST
		= e-1AE
1F47B	👻	BABY ANGEL
		= e-1AF
1F47C	👼	EXTRATERRESTRIAL ALIEN
		= e-1B0
1F47D	👽	ALIEN MONSTER
		= e-1B1
1F47E	👾	IMP
		= e-1B2
1F47F	💀	SKULL
		= e-1B3

Role symbols

1F480	💁	INFORMATION DESK PERSON
		= e-1B4
1F481	💂	GUARDSMAN
		= e-1B5
1F482	💃	DANCER
		= e-1B6

Personal care symbols

1F483	💄	LIPSTICK
		= e-195
1F484	💅	NAIL POLISH
		= manicure, nail care
		= e-196
1F485	💆	FACE MASSAGE
		= e-197

1F486	☕	HAIRCUT

1F486　☕　HAIRCUT
　　　　　• usually indicates a beauty parlor
　　　　　= e-198
1F487　🎵　BARBER POLE
　　　　　= e-199

Medical symbols

1F488　💉　SYRINGE
　　　　　= e-509
1F489　💊　PILL
　　　　　= e-50A

Romance symbols

1F48A　💋　KISS MARK
　　　　　= lips
　　　　　= e-823
1F48B　💌　LOVE LETTER
　　　　　= e-824
1F48C　💍　RING
　　　　　= jewelry
　　　　　= e-825
1F48D　💎　GEM STONE
　　　　　= e-826
1F48E　💏　KISS
　　　　　= two people kissing
　　　　　= e-827
1F48F　💐　BOUQUET
　　　　　= e-828
1F490　💑　COUPLE WITH HEART
　　　　　= e-829
1F491　💒　WEDDING
　　　　　= wedding chapel
　　　　　= e-82A

Heart symbols

1F492　💓　BEATING HEART
　　　　　= e-B0D
1F493　💔　BROKEN HEART
　　　　　= e-B0E
1F494　💕　TWO HEARTS
　　　　　= e-B0F
1F495　💖　SPARKLING HEART
　　　　　= e-B10
1F496　💗　GROWING HEART
　　　　　= e-B11
1F497　💘　HEART WITH ARROW
　　　　　= e-B12
1F498　💙　BLUE HEART
　　　　　= e-B13
1F499　💚　GREEN HEART
　　　　　= e-B14
1F49A　💛　YELLOW HEART
　　　　　= e-B15
1F49B　💜　PURPLE HEART
　　　　　= e-B16
1F49C　💝　HEART WITH RIBBON
　　　　　= e-B17
1F49D　💞　REVOLVING HEARTS
　　　　　= e-B18
1F49E　💟　HEART DECORATION
　　　　　= e-B19
1F49F　👭　TWO WOMEN HOLDING HANDS

Comic style symbols

1F4A0　💠　DIAMOND SHAPE WITH A DOT INSIDE
　　　　　= kawaii, cute
　　　　　= e-B55
1F4A1　💡　ELECTRIC LIGHT BULB
　　　　　= idea
　　　　　= e-B56
1F4A2　💢　ANGER SYMBOL
　　　　　= e-B57
1F4A3　💣　BOMB
　　　　　= e-B58
1F4A4　💤　SLEEPING SYMBOL
　　　　　= e-B59
1F4A5　💥　COLLISION SYMBOL
　　　　　= e-B5A
1F4A6　💦　SPLASHING SWEAT SYMBOL
　　　　　= e-B5B
1F4A7　💧　DROP OF WATER
　　　　　= e-B5C
1F4A8　💨　DASH SYMBOL
　　　　　= running dash
　　　　　= e-B5D
1F4A9　💩　PILE OF POO
　　　　　= dog dirt
　　　　　= e-4F4
1F4AA　💪　FLEXED BICEPS
　　　　　= strong, muscled
　　　　　= e-B5E
1F4AB　💫　DIZZY SYMBOL
　　　　　= circling stars
　　　　　= e-B5F
1F4AC　💬　SPEECH BALLOON
　　　　　= comic book conversation bubble
　　　　　= e-532
1F4AD　💭　THOUGHT BALLOON

Japanese school grade symbols

1F4AE　💮　WHITE FLOWER
　　　　　= brilliant homework
　　　　　= e-B7A
1F4AF　💯　HUNDRED POINTS SYMBOL
　　　　　= perfect score
　　　　　= e-B7B

Money symbols

1F4B0　💰　MONEY BAG
　　　　　• Glyph may show any currency symbol instead
　　　　　　of a dollar sign
　　　　　= e-4DD
1F4B1　💱　CURRENCY EXCHANGE
　　　　　= e-4DE
1F4B2　💲　HEAVY DOLLAR SIGN
　　　　　= e-4E0
1F4B3　💳　CREDIT CARD
　　　　　= e-4E1
1F4B4　💴　BANKNOTE WITH YEN SIGN
　　　　　= e-4E2
1F4B5　💵　BANKNOTE WITH DOLLAR SIGN
　　　　　= e-4E3
1F4B6　💶　BANKNOTE WITH EURO SIGN
1F4B7　💷　BANKNOTE WITH POUND SIGN
1F4B8　💸　MONEY WITH WINGS
　　　　　= e-4E4
1F4B9　💹　CHART WITH UPWARDS TREND AND YEN SIGN
　　　　　= e-4DF

Office symbols

1F4BA   SEAT
= e-537

1F4BB   COMPUTER
= e-538

1F4BC   BRIEFCASE
= e-53B

1F4BD   MINIDISC
= e-53C

1F4BE   FLOPPY DISK
= e-53D

1F4BF   OPTICAL DISC
= e-81D

1F4C0   DVD
= digital video/versatile disc
= e-81E

1F4C1   FILE FOLDER
= e-543

1F4C2   OPEN FILE FOLDER
= e-544

1F4C3   PAGE WITH CURL
= e-540

1F4C4   PAGE FACING UP
= e-541

1F4C5   CALENDAR
= e-542

1F4C6   TEAR-OFF CALENDAR
= e-549

1F4C7   CARD INDEX
= e-54D

1F4C8   CHART WITH UPWARDS TREND
= e-54B

1F4C9   CHART WITH DOWNWARDS TREND
= e-54C

1F4CA   BAR CHART
= e-54A

1F4CB   CLIPBOARD
= e-548

1F4CC   PUSHPIN
= e-54E

1F4CD   ROUND PUSHPIN
= e-53F

1F4CE   PAPERCLIP
= e-53A

1F4CF   STRAIGHT RULER
= e-550

1F4D0   TRIANGULAR RULER
= e-551

1F4D1   BOOKMARK TABS
= e-552

1F4D2   LEDGER
= e-54F

1F4D3   NOTEBOOK
= e-545

1F4D4   NOTEBOOK WITH DECORATIVE COVER
= e-547

1F4D5   CLOSED BOOK
= e-502

1F4D6   OPEN BOOK
= read operator's manual
• similar to ISO/IEC 7000-0790 "Read operator's manual"
= e-546

1F4D7   GREEN BOOK
= e-4FF

1F4D8   BLUE BOOK
= e-500

1F4D9   ORANGE BOOK
= e-501

1F4DA   BOOKS
= e-503

1F4DB   NAME BADGE
= e-504

1F4DC   SCROLL
= e-4FD

Communication symbols

1F4DD   MEMO
= e-527

1F4DE   TELEPHONE RECEIVER
= e-524

1F4DF   PAGER
= e-522

1F4E0   FAX MACHINE
= e-528

1F4E1   SATELLITE ANTENNA
= position indicator, news
= e-531

1F4E2   CAMERA WITH FLASH

1F4E3   PUBLIC ADDRESS LOUDSPEAKER
= e-52F

1F4E4   CHEERING MEGAPHONE
= e-530

1F4E5   OUTBOX TRAY
= e-533

1F4E6   INBOX TRAY
= e-534

1F4E7   PACKAGE
→ 1F381   wrapped present
= e-535

1F4E8   E-MAIL SYMBOL
• glyph may show a @-symbol instead of an E
= e-B92

1F4E9   INCOMING ENVELOPE
→ 2709   envelope
= e-52A

1F4EA   ENVELOPE WITH DOWNWARDS ARROW ABOVE
• sending mail
= e-52B

1F4EB   MAILBOX
= letter box, mail reception
= e-52C

1F4EC   MAILBOX WITH RAISED FLAG
= e-52D

1F4ED   POSTBOX
= mailbox for sending mail
= e-52E

1F4EE   POSTAL HORN

1F4EF   NEWSPAPER
= e-822

1F4F0   MOBILE PHONE
= e-525

1F4F1   MOBILE PHONE WITH RIGHTWARDS ARROW LEFT
• making a phone call
= e-526

1F4F2   VIBRATION MODE
= e-839

1F4F3		MOBILE PHONE OFF
		= e-83A
1F4F4		NO MOBILE PHONES
1F4F5		ANTENNA WITH BARS
		= cellular reception
		= e-838
1F4F6		KEYCAP TEN
		→ 20E3 combining enclosing keycap
		= e-83B

Audio and video

1F4F7		CAMERA
		= e-4EF
1F4F8		VIDEO CAMERA
		= e-4F9
1F4F9		TELEVISION
		= e-81C
1F4FA		RADIO
		= e-81F
1F4FB		VIDEOCASSETTE
		= e-820
1F4FC		SPEAKER WITH CANCELLATION STROKE
1F4FD		SPEAKER
1F4FE		SPEAKER WITH ONE SOUND WAVE
1F4FF		SPEAKER WITH THREE SOUND WAVES
		= sound
		= e-821

Letterlike symbols

1F501		NO ONE UNDER EIGHTEEN SIGN
		= e-B25
1F502		<reserved>
1F503		<reserved>
1F504		<reserved>
1F505		<reserved>
1F506		<reserved>
1F507		<reserved>
1F508		TOP WITH UPWARDS TRIANGLE SIGN
		= top of page
		= e-B42

Time symbols

1F50A		SOON WITH RIGHTWARDS ARROW ABOVE
		= e-018
1F50B		ON WITH LEFT RIGHT ARROW ABOVE
		= e-019
1F50C		END WITH LEFTWARDS ARROW ABOVE
		= e-01A
1F50D		BACK WITH LEFTWARDS ARROW ABOVE
		= e-B8E

UI input status symbols

1F50E		INPUT SYMBOL FOR LATIN CAPITAL LETTERS
		= e-B7C
1F50F		INPUT SYMBOL FOR LATIN SMALL LETTERS
		= e-B7D
1F510		INPUT SYMBOL FOR NUMBERS
		= e-B7E
1F511		INPUT SYMBOL FOR SYMBOLS
		= e-B7F
1F512		INPUT SYMBOL FOR LATIN LETTERS
		= English input (ABC)
		= e-B80

User interface symbols

1F515		CLOCKWISE UPWARDS AND DOWNWARDS OPEN CIRCLE ARROWS
		= reload
		= e-B91
1F516		TWISTED RIGHTWARDS ARROWS
		= shuffle
1F517		CLOCKWISE RIGHTWARDS AND LEFTWARDS OPEN CIRCLE ARROWS
		= repeat
1F518		CLOCKWISE RIGHTWARDS AND LEFTWARDS OPEN CIRCLE ARROWS WITH CIRCLED ONE OVERLAY
		= repeat one item over
1F519		ANTICLOCKWISE DOWNWARDS AND UPWARDS OPEN CIRCLE ARROWS
		= reload

Tool symbols

1F51C		DIM SCREEN SYMBOL
1F51D		BRIGHT SCREEN SYMBOL
1F51E		BATTERY
		= e-4FC
1F51F		ELECTRIC PLUG
		= e-4FE
1F520		LEFT-POINTING MAGNIFYING GLASS
		= search
		= e-B85
1F521		RIGHT-POINTING MAGNIFYING GLASS
		= get more details
		= e-B8D
1F522		LOCK WITH INK PEN
		= privacy
		= e-B90
1F523		CLOSED LOCK WITH KEY
		= secure
		= e-B8A
1F524		KEY
		= e-B82
1F525		RADIO BUTTON
		= e-B8C
1F526		BOOKMARK
		= e-B8F
1F527		LINK SYMBOL
		= e-B4B
1F528		FIRE
		= e-4F6
1F529		<reserved>
1F52A		ELECTRIC TORCH
		= flashlight
		= e-4FB
1F52B		WRENCH
		= e-4C9
1F52C		HAMMER
		= e-4CA
1F52D		NUT AND BOLT
		= e-4CB
1F52E		HOCHO
		= Japanese kitchen knife
		= e-4FA
1F52F		PISTOL
		= e-4F5
1F530		MICROSCOPE
1F531		TELESCOPE

1F532   CRYSTAL BALL
    = e-4F7
1F533   SIX POINTED STAR WITH MIDDLE DOT
    = e-4F8
1F534   JAPANESE SYMBOL FOR BEGINNER
    = e-044
1F535   TRIDENT EMBLEM
    = e-4D2

Geometric shapes

1F536   BLACK SQUARE BUTTON
    = e-BA3
1F537   WHITE SQUARE BUTTON
    = e-B67
1F538   LARGE RED CIRCLE
    → 25EF ◯ large circle
    → 2B24 ● black large circle
    = e-B63
1F539   LARGE BLUE CIRCLE
    → 25EF ◯ large circle
    → 2B55 ◯ heavy large circle
    = e-B64
1F53A   LARGE ORANGE DIAMOND
    = e-B73
1F53B   LARGE BLUE DIAMOND
    = e-B74
1F53C   SMALL ORANGE DIAMOND
    = e-B75
1F53D   SMALL BLUE DIAMOND
    = e-B76

User Interface symbols

1F540   UP-POINTING RED TRIANGLE
    = e-B78
1F541   DOWN-POINTING RED TRIANGLE
    = e-B79
1F542   UP-POINTING SMALL RED TRIANGLE
    = play arrow up
    = e-B01
1F543   DOWN-POINTING SMALL RED TRIANGLE
    = play arrow down
    = e-B00
1F544   <reserved>
1F545   <reserved>
1F546   <reserved>
1F547   <reserved>
1F548   <reserved>
1F549   <reserved>
1F54A   <reserved>
1F54B   LOCK
    = padlock in locked position
    = e-B86
1F54C   OPEN LOCK
    = e-B87
1F54D   BELL
    = e-4F2
1F54E   BELL WITH CANCELLATION STROKE
1F54F   <reserved>
1F550   CLOCK FACE ONE OCLOCK
    = e-01E
1F551   CLOCK FACE TWO OCLOCK
    = e-01F
1F552   CLOCK FACE THREE OCLOCK
    = e-020

1F553   CLOCK FACE FOUR OCLOCK
    = e-021
1F554   CLOCK FACE FIVE OCLOCK
    = e-022
1F555   CLOCK FACE SIX OCLOCK
    = e-023
1F556   CLOCK FACE SEVEN OCLOCK
    = e-024
1F557   CLOCK FACE EIGHT OCLOCK
    = e-025
1F558   CLOCK FACE NINE OCLOCK
    = e-026
1F559   CLOCK FACE TEN OCLOCK
    = e-027
1F55A   CLOCK FACE ELEVEN OCLOCK
    = e-028
1F55B   CLOCK FACE TWELVE OCLOCK
    = e-029
1F55C   CLOCK FACE ONE-THIRTY
1F55D   CLOCK FACE TWO-THIRTY
1F55E   CLOCK FACE THREE-THIRTY
1F55F   CLOCK FACE FOUR-THIRTY
1F560   CLOCK FACE FIVE-THIRTY
1F561   CLOCK FACE SIX-THIRTY
1F562   CLOCK FACE SEVEN-THIRTY
1F563   CLOCK FACE EIGHT-THIRTY
1F564   CLOCK FACE NINE-THIRTY
1F565   CLOCK FACE TEN-THIRTY
1F566   CLOCK FACE ELEVEN-THIRTY
1F567   CLOCK FACE TWELVE-THIRTY

Cultural symbols

1F5FB   MOUNT FUJI
    = e-4C3
1F5FC   TOKYO TOWER
    = e-4C4
1F5FD   STATUE OF LIBERTY
    = e-4C6
1F5FE   SILHOUETTE OF JAPAN
    = e-4C7
1F5FF   MOYAI
    • Japanese stone statue like Moai on Easter Island
    = e-4C8

	1F60	1F61	1F62	1F63	1F64
0	1F600	1F610	1F620	1F630	
1	1F601	1F611	1F621	1F631	
2	1F602	1F612	1F622	1F632	
3	1F603	1F613	1F623	1F633	
4	1F604	1F614	1F624	1F634	
5	1F605	1F615	1F625	1F635	
6	1F606	1F616	1F626	1F636	
7	1F607	1F617	1F627	1F637	
8	1F608	1F618	1F628	1F638	
9	1F609	1F619	1F629	1F639	
A	1F60A	1F61A	1F62A	1F63A	
B	1F60B	1F61B	1F62B	1F63B	
C	1F60C	1F61C	1F62C	1F63C	
D	1F60D	1F61D	1F62D	1F63D	
E	1F60E	1F61E	1F62E		
F	1F60F	1F61F	1F62F		

Emoticons

1F600 ANGRY FACE
= e-320

1F601 ANGUISHED FACE
= e-321

1F602 ASTONISHED FACE
= e-322

1F603 DISAPPOINTED FACE
= e-323

1F604 DIZZY FACE
= e-324

1F605 EXASPERATED FACE
= e-325

1F606 EXPRESSIONLESS FACE
• used for the North Wind in some Mahjong annotation
= e-326

1F607 FACE WITH HEART-SHAPED EYES
= e-327

1F608 FACE WITH LOOK OF TRIUMPH
= e-328

1F609 WINKING FACE WITH STUCK-OUT TONGUE
= e-329

1F60A FACE WITH STUCK-OUT TONGUE
= e-32A

1F60B FACE SAVOURING DELICIOUS FOOD
= e-32B

1F60C FACE THROWING A KISS
= e-32C

1F60D FACE KISSING
= e-32D

1F60E FACE WITH MASK
= e-32E

1F60F FLUSHED FACE
= e-32F

1F610 HAPPY FACE WITH OPEN MOUTH
= e-330

1F611 HAPPY FACE WITH OPEN MOUTH AND COLD SWEAT
= e-331

1F612 HAPPY FACE WITH OPEN MOUTH AND CLOSED EYES
= e-332

1F613 HAPPY FACE WITH GRIN
= e-333

1F614 HAPPY AND CRYING FACE
= e-334

1F615 HAPPY FACE WITH WIDE MOUTH AND RAISED EYEBROWS
= e-335

1F616 HAPPY FACE WITH OPEN MOUTH AND RAISED EYEBROWS
= e-338

1F617 CRYING FACE
= e-339

1F618 LOUDLY CRYING FACE
= e-33A

1F619 FEARFUL FACE
= e-33B

1F61A PERSEVERING FACE
= e-33C

1F61B POUTING FACE
= e-33D

1F61C RELIEVED FACE
= e-33E

1F61D CONFOUNDED FACE
= e-33F

1F61E PENSIVE FACE
= e-340

1F61F FACE SCREAMING IN FEAR
= e-341

1F620 SLEEPY FACE
= e-342

1F621 SMIRKING FACE
= e-343

1F622 FACE WITH COLD SWEAT
= e-344

1F623 DISAPPOINTED BUT RELIEVED FACE
= e-345

1F624 TIRED FACE
= e-346

1F625 WINKING FACE
= e-347

1F626 FACE WITH HALO

1F627 FACE WITH HORNS

1F628 FACE WITH SUNGLASSES

1F629 FACE WITHOUT MOUTH
• used for the West Wind in some Mahjong annotation

Emoticons with cat faces

1F62A CAT FACE WITH OPEN MOUTH
= e-348

1F62B HAPPY CAT FACE WITH GRIN
= e-349

1F62C HAPPY AND CRYING CAT FACE
= e-34A

1F62D CAT FACE KISSING
= e-34B

1F62E CAT FACE WITH HEART-SHAPED EYES
= e-34C

1F62F CRYING CAT FACE
= e-34D

1F630 POUTING CAT FACE
= e-34E

1F631 CAT FACE WITH TIGHTLY-CLOSED LIPS
= e-34F

1F632 ANGUISHED CAT FACE
= e-350

Gesture symbols

1F633 FACE WITH NO GOOD GESTURE
= e-351

1F634 FACE WITH OK GESTURE
= e-352

1F635 PERSON BOWING DEEPLY
= e-353

1F636 SEE-NO-EVIL MONKEY
= e-354

1F637 SPEAK-NO-EVIL MONKEY
= e-355

1F638 HEAR-NO-EVIL MONKEY
= e-356

1F639 PERSON RAISING ONE HAND
= e-357

1F63A PERSON RAISING BOTH HANDS IN CELEBRATION
= e-358

1F63B ☺ PERSON FROWNING
            = e-359
1F63C ☺ PERSON WITH POUTING FACE
            = e-35A
1F63D ☺ PERSON WITH FOLDED HANDS
            = e-35B

	1F68	1F69	1F6A	1F6B	1F6C	1F6D	1F6E	1F6F
0	1F680	1F690	1F6A0	1F6B0	1F6C0			
1	1F681	1F691	1F6A1	1F6B1	1F6C1			
2	1F682	1F692	1F6A2	1F6B2	1F6C2			
3	1F683	1F693	1F6A3	1F6B3	1F6C3			
4	1F684	1F694	1F6A4	1F6B4	1F6C4			
5	1F685	1F695	1F6A5	1F6B5	1F6C5			
6	1F686	1F696	1F6A6	1F6B6				
7	1F687	1F697	1F6A7	1F6B7				
8	1F688	1F698	1F6A8	1F6B8				
9	1F689	1F699	1F6A9	1F6B9				
A	1F68A	1F69A	1F6AA	1F6BA				
B	1F68B	1F69B	1F6AB	1F6BB				
C	1F68C	1F69C	1F6AC	1F6BC				
D	1F68D	1F69D	1F6AD	1F6BD				
E	1F68E	1F69E	1F6AE	1F6BE				
F	1F68F	1F69F	1F6AF	1F6BF				

Vehicles

1F680   ROCKET
     = e-7ED
1F681   HELICOPTER
1F682   STEAM LOCOMOTIVE
1F683   RAILWAY CAR
1F684   HIGH-SPEED TRAIN
     = e-7E2
1F685   HIGH-SPEED TRAIN WITH BULLET NOSE
     = e-7E3
1F686   TRAIN
     = intercity train
     = e-7DF
1F687   SUBWAY
     = underground train
     = e-7E0
1F688   LIGHT RAIL
1F689   STATION
     = train, subway station
     = e-7EC
1F68A   TRAM
1F68B   TRAM CAR
1F68C   BUS
1F68D   ONCOMING BUS
     = e-7E6
1F68E   TROLLEYBUS
1F68F   BUS STOP
     = e-7E7
1F690   MINIBUS
1F691   AMBULANCE
     = e-7F3
1F692   FIRE ENGINE
     = e-7F2
1F693   POLICE CAR
     = e-7F4
1F694   ONCOMING POLICE CAR
1F695   TAXI
     = e-7EF
1F696   ONCOMING TAXI
1F697   AUTOMOBILE
     = e-7E4
1F698   ONCOMING AUTOMOBILE
1F699   RECREATIONAL VEHICLE
     = e-7E5
1F69A   DELIVERY TRUCK
     = e-7F1
1F69B   ARTICULATED LORRY
1F69C   TRACTOR
1F69D   MONORAIL
1F69E   MOUNTAIN RAILWAY
1F69F   SUSPENSION RAILWAY
1F6A0   MOUNTAIN CABLEWAY
1F6A1   AERIAL TRAMWAY
1F6A2   SHIP
     → 26F4 ⛴ ferry
     = e-7E8
1F6A3   ROWBOAT
1F6A4   SPEEDBOAT
     = e-7EE

Traffic signs

1F6A5   HORIZONTAL TRAFFIC LIGHT
     = e-7F7

1F6A6   VERTICAL TRAFFIC LIGHT
1F6A7   CONSTRUCTION SIGN
     = e-7F8
1F6A8   POLICE CARS REVOLVING LIGHT
     = rotating beacon
     = e-7F9

Signage and other symbols

1F6A9   TRIANGULAR FLAG ON POST
     = location information
     = e-B22
1F6AA   DOOR
     = e-4F3
1F6AB   SIGN INDICATING FORBIDDEN ACTIVITY
     → 26D4 ⛔ no entry
     = e-B48
1F6AC   SMOKING SYMBOL
     = e-B1E
1F6AD   NO SMOKING SYMBOL
     = e-B1F
1F6AE   PUT LITTER IN ITS PLACE SYMBOL
1F6AF   DO NOT LITTER SYMBOL
1F6B0   POTABLE WATER SYMBOL
1F6B1   NON-POTABLE WATER SYMBOL
1F6B2   BICYCLE
     = e-7EB
1F6B3   NO BICYCLES
1F6B4   BICYCLIST
1F6B5   MOUNTAIN BICYCLIST
1F6B6   PEDESTRIAN
     = walking
     = e-7F0
1F6B7   NO PEDESTRIANS
1F6B8   CHILDREN CROSSING
1F6B9   MENS SYMBOL
     = man symbol
     = men's restroom
     = e-B33
1F6BA   WOMENS SYMBOL
     = woman symbol
     = women's restroom
     = e-B34
1F6BB   RESTROOM
     = man and woman symbol with divider
     = e-506
1F6BC   BABY SYMBOL
     = baby on board, baby changing station
     = e-B35
1F6BD   BATH
     = e-505
1F6BE   SHOWER
1F6BF   TOILET
     = e-507
1F6C0   WATER CLOSET
     = e-508
1F6C1   PASSPORT CONTROL
1F6C2   CUSTOMS
1F6C3   BAGGAGE CLAIM
1F6C4   LEFT LUGGAGE
1F6C5   BATHTUB

	1F70	1F71	1F72	1F73	1F74	1F75	1F76	1F77
0	1F700	1F710	1F720	1F730	1F740	1F750	1F760	1F770
1	1F701	1F711	1F721	1F731	1F741	1F751	1F761	1F771
2	1F702	1F712	1F722	1F732	1F742	1F752	1F762	1F772
3	1F703	1F713	1F723	1F733	1F743	1F753	1F763	1F773
4	1F704	1F714	1F724	1F734	1F744	1F754	1F764	
5	1F705	1F715	1F725	1F735	1F745	1F755	1F765	
6	1F706	1F716	1F726	1F736	1F746	1F756	1F766	
7	1F707	1F717	1F727	1F737	1F747	1F757	1F767	
8	1F708	1F718	1F728	1F738	1F748	1F758	1F768	
9	1F709	1F719	1F729	1F739	1F749	1F759	1F769	
A	1F70A	1F71A	1F72A	1F73A	1F74A	1F75A	1F76A	
B	1F70B	1F71B	1F72B	1F73B	1F74B	1F75B	1F76B	
C	1F70C	1F71C	1F72C	1F73C	1F74C	1F75C	1F76C	
D	1F70D	1F71D	1F72D	1F73D	1F74D	1F75D	1F76D	
E	1F70E	1F71E	1F72E	1F73E	1F74E	1F75E	1F76E	
F	1F70F	1F71F	1F72F	1F73F	1F74F	1F75F	1F76F	

Aristotelian elements symbols

1F700   ⚶   ALCHEMICAL SYMBOL FOR QUINTESSENCE
1F701   🜁   ALCHEMICAL SYMBOL FOR AIR
1F702   🜂   ALCHEMICAL SYMBOL FOR FIRE
      → 25B3 △ white up-pointing triangle
1F703   🜃   ALCHEMICAL SYMBOL FOR EARTH
      → 2641 ♁ earth
1F704   🜄   ALCHEMICAL SYMBOL FOR WATER
      → 25BD ▽ white down-pointing triangle

Symbols for important solvents

1F705   🜅   ALCHEMICAL SYMBOL FOR AQUAFORTIS
1F706   🜆   ALCHEMICAL SYMBOL FOR AQUA REGIA
1F707   🜇   ALCHEMICAL SYMBOL FOR AQUA REGIA-2
      = balneum arenae (sand bath), lapis armenus
        (Armenian stone)
1F708   🜈   ALCHEMICAL SYMBOL FOR AQUA VITAE
      = spiritus vini
1F709   🜉   ALCHEMICAL SYMBOL FOR AQUA VITAE-2
1F70A   🜊   ALCHEMICAL SYMBOL FOR VINEGAR
      = crucible; acid; distill; atrament; vitriol; red sulfur;
        borax; wine; alkali salt; mercurius vivus, quick
        silver
1F70B   🜋   ALCHEMICAL SYMBOL FOR VINEGAR-2
      = distilled vinegar
1F70C   🜌   ALCHEMICAL SYMBOL FOR VINEGAR-3

Symbols for sulfur and mercury

1F70D   🜍   ALCHEMICAL SYMBOL FOR SULPHUR
      = brimstone
1F70E   🜎   ALCHEMICAL SYMBOL FOR PHILOSOPHERS
        SULPHUR
1F70F   🜏   ALCHEMICAL SYMBOL FOR BLACK SULPHUR
      = sulphur nigra, dye
1F710   🜐   ALCHEMICAL SYMBOL FOR MERCURY
        SUBLIMATE
      → 263F ☿ mercury
      → 1F75E 🝞 alchemical symbol for sublimation
1F711   🜑   ALCHEMICAL SYMBOL FOR MERCURY
        SUBLIMATE-2
1F712   🜒   ALCHEMICAL SYMBOL FOR MERCURY
        SUBLIMATE-3
1F713   🜓   ALCHEMICAL SYMBOL FOR CINNABAR

Symbols for salt, vitriol, and niter

1F714   🜔   ALCHEMICAL SYMBOL FOR SALT
      → 25A1 □ white square
      → 2296 ⊖ circled minus
1F715   🜕   ALCHEMICAL SYMBOL FOR NITRE
      → 29B6 ⦶ circled vertical bar
1F716   🜖   ALCHEMICAL SYMBOL FOR VITRIOL
1F717   🜗   ALCHEMICAL SYMBOL FOR VITRIOL-2
1F718   🜘   ALCHEMICAL SYMBOL FOR ROCK SALT
      = sal gemmae
1F719   🜙   ALCHEMICAL SYMBOL FOR ROCK SALT-2

Symbol for gold

1F71A   🜚   ALCHEMICAL SYMBOL FOR GOLD
      → 2609 ☉ sun

Symbol for silver

1F71B   🜛   ALCHEMICAL SYMBOL FOR SILVER
      → 263D ☽ first quarter moon
      → 263E ☾ last quarter moon

Symbols for iron, iron ore and derivatives

1F71C   🜜   ALCHEMICAL SYMBOL FOR IRON ORE
      → 2642 ♂ male sign
1F71D   🜝   ALCHEMICAL SYMBOL FOR IRON ORE-2
1F71E   🜞   ALCHEMICAL SYMBOL FOR CROCUS OF IRON
      = crocus martis, red or yellow calcined powder of
        iron
1F71F   🜟   ALCHEMICAL SYMBOL FOR REGULUS OF IRON
      = regulus martis, scoria from refining
        stibnite/antimony with iron

Symbols for copper, copper ore and derivatives

1F720   🜠   ALCHEMICAL SYMBOL FOR COPPER ORE
      → 2640 ♀ female sign
1F721   🜡   ALCHEMICAL SYMBOL FOR IRON-COPPER ORE
      → 2640 ♀ female sign
      → 2642 ♂ male sign
      → 26A5 ⚥ male and female sign
1F722   🜢   ALCHEMICAL SYMBOL FOR SUBLIMATE OF
        COPPER
      → 2640 ♀ female sign
      → 1F739 🜹 alchemical symbol for sal-ammoniac
1F723   🜣   ALCHEMICAL SYMBOL FOR CROCUS OF
        COPPER
      = crocus veneris, aes ustum
      → 2640 ♀ female sign
1F724   🜤   ALCHEMICAL SYMBOL FOR CROCUS OF
        COPPER-2
1F725   🜥   ALCHEMICAL SYMBOL FOR COPPER
        ANTIMONIATE
      = crocus of copper, crocus veneris, lapis
        haematites
      → 2640 ♀ female sign
      → 2641 ♁ earth
1F726   🜦   ALCHEMICAL SYMBOL FOR SALT OF COPPER
        ANTIMONIATE
      → 2640 ♀ female sign
      → 2641 ♁ earth
      → 1F714 🜔 alchemical symbol for salt
1F727   🜧   ALCHEMICAL SYMBOL FOR SUBLIMATE OF
        SALT OF COPPER
      → 2640 ♀ female sign
      → 1F714 🜔 alchemical symbol for salt
      → 1F739 🜹 alchemical symbol for sal-ammoniac
1F728   🜨   ALCHEMICAL SYMBOL FOR VERDIGRIS
      = aes viride, copper subacetate
      = early astronomical symbol for earth
      → 2295 ⊕ circled plus

Symbols for tin and tin ore

1F729   🜩   ALCHEMICAL SYMBOL FOR TIN ORE
      → 2643 ♃ jupiter

Symbols for lead and lead ore

1F72A   🜪   ALCHEMICAL SYMBOL FOR LEAD ORE
      → 2644 ♄ saturn

Symbols for antimony, antimony ore and derivatives; regulus

1F72B   🜫   ALCHEMICAL SYMBOL FOR ANTIMONY ORE
      = stibnite
      → 2641 ♁ earth
1F72C   🜬   ALCHEMICAL SYMBOL FOR SUBLIMATE OF
        ANTIMONY
      → 2641 ♁ earth
      → 1F739 🜹 alchemical symbol for sal-ammoniac

1F72D   ᛞ   ALCHEMICAL SYMBOL FOR SALT OF
          ANTIMONY
          = cinnabar
          → 2641 ♁ earth
          → 1F714 ⊖ alchemical symbol for salt
1F72E   ᛟ   ALCHEMICAL SYMBOL FOR SUBLIMATE OF
          SALT OF ANTIMONY
          → 2641 ♁ earth
          → 1F714 ⊖ alchemical symbol for salt
          → 1F739 ⚹ alchemical symbol for sal-ammoniac
1F72F   ᛞ   ALCHEMICAL SYMBOL FOR VINEGAR OF
          ANTIMONY
          → 2641 ♁ earth
          → 1F739 ⚹ alchemical symbol for sal-ammoniac
1F730   ♉   ALCHEMICAL SYMBOL FOR REGULUS OF
          ANTIMONY
          = antimony metal
1F731   ᛞ   ALCHEMICAL SYMBOL FOR REGULUS OF
          ANTIMONY-2
          → 2641 ♁ earth
1F732   ♉   ALCHEMICAL SYMBOL FOR REGULUS
1F733   ☉   ALCHEMICAL SYMBOL FOR REGULUS-2
1F734   ⵣ   ALCHEMICAL SYMBOL FOR REGULUS-3
1F735   ♉   ALCHEMICAL SYMBOL FOR REGULUS-4

Symbols for other substances

1F736   ᚠ   ALCHEMICAL SYMBOL FOR ALKALI
          = sal alkali
1F737   ⵃ   ALCHEMICAL SYMBOL FOR ALKALI-2
1F738   ⵥ   ALCHEMICAL SYMBOL FOR MARCASITE
          = iron pyrite, iron sulfide
1F739   ⚹   ALCHEMICAL SYMBOL FOR SAL-AMMONIAC
          = ammonium chloride
          → 002A ∗ asterisk
          → 26B9 ✶ sextile
          → 2733 ✳ eight spoked asterisk
1F73A   ⚏   ALCHEMICAL SYMBOL FOR ARSENIC
1F73B   ᛞ   ALCHEMICAL SYMBOL FOR REALGAR
          = arsenic sulfide
1F73C   ⵝ   ALCHEMICAL SYMBOL FOR REALGAR-2
          = arsenic sulfide
1F73D   ⵗ   ALCHEMICAL SYMBOL FOR AURIPIGMENT
          = orpiment
          = arsenic trisulfide
1F73E   ⵤ   ALCHEMICAL SYMBOL FOR BISMUTH ORE
          = tinglass
          → 2646 ♆ neptune
1F73F   ⵕ   ALCHEMICAL SYMBOL FOR TARTAR
          = impure potassium tartrate
1F740   ⚓   ALCHEMICAL SYMBOL FOR TARTAR-2
          = impure potassium tartrate
1F741   ⵘ   ALCHEMICAL SYMBOL FOR QUICK LIME
          = calx viva
          = calcium oxide
1F742   ⵋ   ALCHEMICAL SYMBOL FOR BORAX
1F743   ⵖ   ALCHEMICAL SYMBOL FOR BORAX-2
1F744   ⵛ   ALCHEMICAL SYMBOL FOR BORAX-3
1F745   ⵏ   ALCHEMICAL SYMBOL FOR ALUM
1F746   ⵦ   ALCHEMICAL SYMBOL FOR OIL
1F747   ⵯₛₚ   ALCHEMICAL SYMBOL FOR SPIRIT
1F748   ℞   ALCHEMICAL SYMBOL FOR TINCTURE
1F749   ᚸ   ALCHEMICAL SYMBOL FOR GUM
1F74A   ⵤ   ALCHEMICAL SYMBOL FOR WAX
          = cera

1F74B   ᛟ   ALCHEMICAL SYMBOL FOR POWDER
          = pulvis
1F74C   ℭ   ALCHEMICAL SYMBOL FOR CALX
          = calcinare
          = oxide residue, calcium oxide
1F74D   ⵣ   ALCHEMICAL SYMBOL FOR TUTTY
          = tutia, crude zinc oxide sublimate
          = aes viride
1F74E   ☻   ALCHEMICAL SYMBOL FOR CAPUT MORTUUM
          = worthless residue of sublimation or distillation
1F74F   ⚹   ALCHEMICAL SYMBOL FOR SCEPTER OF JOVE
1F750   →✶   ALCHEMICAL SYMBOL FOR CADUCEUS
          → 2624 ☤ caduceus
1F751   ⵁ   ALCHEMICAL SYMBOL FOR TRIDENT
1F752   ∗ⵁ   ALCHEMICAL SYMBOL FOR STARRED TRIDENT
1F753   ⵥ   ALCHEMICAL SYMBOL FOR LODESTONE
          = magnes
1F754   ◇   ALCHEMICAL SYMBOL FOR SOAP
          → 25CA ◊ lozenge
1F755   ⊡   ALCHEMICAL SYMBOL FOR URINE
          → 22A1 ⊡ squared dot operator
1F756   ♈   ALCHEMICAL SYMBOL FOR HORSE DUNG
          = fimus equinus
1F757   ⵋ   ALCHEMICAL SYMBOL FOR ASHES
          = cineres
1F758   ⵕ   ALCHEMICAL SYMBOL FOR POT ASHES
          = cineres clavellati, alumen
1F759   ▰   ALCHEMICAL SYMBOL FOR BRICK
1F75A   ▱   ALCHEMICAL SYMBOL FOR POWDERED BRICK
          = later cibratus, farina laterum
1F75B   ⵣⵣⵣ   ALCHEMICAL SYMBOL FOR AMALGAM
1F75C   ss̄   ALCHEMICAL SYMBOL FOR STRATUM SUPER
          STRATUM
1F75D   ⵣⵣ   ALCHEMICAL SYMBOL FOR STRATUM SUPER
          STRATUM-2

Processes symbols

1F75E   ⚏   ALCHEMICAL SYMBOL FOR SUBLIMATION
          → 260A ☊ ascending node
          X (libra - 264E ♎)
1F75F   ⚌   ALCHEMICAL SYMBOL FOR PRECIPITATE
1F760   ⌒   ALCHEMICAL SYMBOL FOR DISTILL
          = sublimate
1F761   ƒ   ALCHEMICAL SYMBOL FOR DISSOLVE
1F762   Ⅴ   ALCHEMICAL SYMBOL FOR DISSOLVE-2
          = water, aqua
1F763   ⴹ   ALCHEMICAL SYMBOL FOR PURIFY
          → 260B ☋ descending node
1F764   ♈   ALCHEMICAL SYMBOL FOR PUTREFACTION

Apparatuses symbols

1F765   ▽   ALCHEMICAL SYMBOL FOR CRUCIBLE
          = tigellum
          → 1F70A ✚ alchemical symbol for vinegar
1F766   ⴗ   ALCHEMICAL SYMBOL FOR CRUCIBLE-2
1F767   Ⅴ   ALCHEMICAL SYMBOL FOR CRUCIBLE-3
1F768   T   ALCHEMICAL SYMBOL FOR CRUCIBLE-4
1F769   ⴸ   ALCHEMICAL SYMBOL FOR CRUCIBLE-5
1F76A   ⵝ   ALCHEMICAL SYMBOL FOR ALEMBIC
1F76B   Ⅿʙ   ALCHEMICAL SYMBOL FOR BATH OF MARY
          = balneum mariae
1F76C   Ⅴʙ   ALCHEMICAL SYMBOL FOR BATH OF VAPOURS
          = balneum vaporis
1F76D   ⵣ   ALCHEMICAL SYMBOL FOR RETORT

Time

1F76E   ⚜   ALCHEMICAL SYMBOL FOR HOUR
        → 231B ⌛ hourglass
1F76F   ♃   ALCHEMICAL SYMBOL FOR NIGHT
1F770   ♧   ALCHEMICAL SYMBOL FOR DAY-NIGHT
1F771   ⊠   ALCHEMICAL SYMBOL FOR MONTH
        = mensis
        → 22A0 ⊠ squared times

Measures

1F772   ʒ^β   ALCHEMICAL SYMBOL FOR HALF DRAM
        = drachma semis
        → 0292 ʒ latin small letter ezh
1F773   ℥^β   ALCHEMICAL SYMBOL FOR HALF OUNCE
        = uncia semis
        → 2125 ℥ ounce

2B740 一 1.2 五 JH-IB0607	2B754 十 24.7 堯 JH-IB0646	2B768 女 38.6 婙 GFHZB005	2B77C 手 64.6 掆 TB-7328
2B741 一 1.5 亞 JH-JTAD0F	2B755 厂 27.5 辰 JH-IB0911	2B769 女 38.7 婺 GFHZB006	2B77D 手 64.9 撨 UTC00863
2B742 一 1.6 㳠 JH-IB0687	2B756 厂 27.8 㿲 JH-JTC064	2B76A 女 38.7 媛 GFHZB007	2B77E 手 64.10 撦 TB-7335
2B743 一 1.13 爾 JH-JTADA4	2B757 厂 27.8 厚 JH-IB0627	2B76B 女 38.7 㜜 GFHZB008	2B77F 手 64.11 撈 TB-733D
2B744 丿 4.2 人 JH-JTAD23	2B758 口 30.3.0 吭 TB-733C	2B76C 女 38.9 嫝 GFHZB009	2B780 手 64.15 擳 JH-JTB23A
2B745 亠 8.4 夨 JH-JTAD2A	2B759 口 30.6 皇 TB-7322	2B76D 女 38.11 嫈 GFHZB010	2B781 方 70.7 族 JH-IB0704
2B746 人 9.3 今 JH-004890	2B75A 口 30.11 � UTC00861	2B76E 女 38.12 嫺 GFHZB011	2B782 方 70.9 旇 JH-JTB275
2B747 人 9.6 命 JH-IB0630	2B75B 口 30.12 㗭 TB-732B	2B76F 子 39.12 學 JH-079980	2B783 日 72.5 旺 UTC00864
2B748 人 9.6 伜 GFHZB001	2B75C 口 30.14 嚱 UTC00862	2B770 宀 40.11 竃 JH-IB1674	2B784 日 72.5 旹 JH-IB0706
2B749 人 9.8 倉 JH-IB0611	2B75D 口 30.15 嚴 JH-IB0637	2B771 宀 40.12 寧 JH-JTB039	2B785 日 72.6 晉 JH-IB0707
2B74A 人 9.9 傳 JH-JTAD7A	2B75E 口 30.19 嚽 TB-732C	2B772 尸 44.3 屄 JH-JTB054	2B786 月 74.6 肎 GFHZB013
2B74B 人 9.11 傮 GFHZB002	2B75F 土 32.9 堚 JH-JTAF6A	2B773 山 46.3 屿 JH-JTB060	2B787 月 74.8 腆 JH-JTB8DA
2B74C 儿 10.7 㡠 JH-JTADD5	2B760 土 32.11 壇 JH-JTAF7A	2B774 山 46.6 峿 GIDC225	2B788 月 74.8 腇 JH-JTB8DB
2B74D 囗 13.7 囷 JH-IB0662	2B761 土 32.13 墮 JH-JTAF85	2B775 山 46.7 嶹 GFHZB012	2B789 木 75.4 枛 JH-JTB2FC
2B74E 冫 15.7 凒 TB-733E	2B762 夕 36.3 外 JH-JTAFB9	2B776 广 53.8 座 JH-IB1783	2B78A 木 75.6 柵 JH-JTB314
2B74F 冫 15.9 澹 TB-7323	2B763 夕 36.4 㱦 JH-JTAFBC	2B777 广 53.8 座 UTC00856	2B78B 木 75.6 栃 JH-JTB313
2B750 刀 18.7 前 JH-IB0622	2B764 大 37.7 羍 JH-JTAFC9	2B778 彡 59.6 㕛 JH-IB0679	2B78C 木 75.10 樅 UTC00865
2B751 力 19.11 勢 JH-JTAE48 勢 UTC00857	2B765 大 37.13 艱 UTC00873	2B779 彳 60.8 御 JH-IB0680	2B78D 木 75.10 橄 JH-IB2137
2B752 十 24.5 早 JH-JTAE65	2B766 女 38.4 姎 GFHZB003	2B77A 心 61.4 念 JH-IB0681	2B78E 木 75.11 櫃 JH-JTB37D
2B753 十 24.6 㤀 UTC00860	2B767 女 38.6 媤 GFHZB004	2B77B 手 64.5 拥 TB-7324	2B78F 木 75.11 橋 JH-IB2148

2B790 木 75.11 橋 JH-JTC0EB	2B7A4 犬 94.5 狨 GFHZB021	2B7B8 禾 115.6 秢 GFHZB027	2B7CC 臼 134.6 與 JH-337260
2B791 木 75.12 權 JH-IB0716	2B7A5 犬 94.8 猨 JH-IB0750	2B7B9 禾 115.8 楝 JH-IB0256	2B7CD 艸 140.5 苏 JH-JTB94A
2B792 木 75.13 欂 JH-JTB3A8	2B7A6 玉 96.4 玥 GFHZB022	2B7BA 穴 116.2 空 JH-JTB76C	2B7CE 艸 140.5 苑 JH-JTB945
2B793 木 75.14 欐 JH-JTB3B5	2B7A7 玉 96.6 琜 GFHZB023	2B7BB 穴 116.17 竊 JH-JTB787	2B7CF 艸 140.6 荒 JH-IB0862
2B794 止 77.9 歲 JH-JTB3E2	2B7A8 玉 96.8 瑝 GFHZB024	2B7BC 立 117.2 訂 TB-7333	2B7D0 艸 140.7 莌 JH-JTB989
2B795 歹 78.11 殱 UTC00866	2B7A9 玉 96.10 瑥 GFHZB025	2B7BD 立 117.6 �端 TB-7326	2B7D1 艸 140.7 莠 JH-JTB98A
2B796 氏 83.1 氏 JH-IB0728	2B7AA 玉 96.11 璃 GFHZB026	2B7BE 竹 118.9 簑 UTC00858	2B7D2 艸 140.7 莨 GFHZB033
2B797 氏 83.2 民 JH-IB0729	2B7AB 甘 99.4 甚 JH-IB0757	2B7BF 竹 118.9 篦 JH-JTB7C9	2B7D3 艸 140.9 葉 JH-JTB9D9 葉 UTC00871
2B798 水 85.7 洞 GFHZB014	2B7AC 田 102.6 畏 JH-JTBB05	2B7C0 竹 118.9 築 JH-IB2651	2B7D4 艸 140.9 薈 JH-IB0863
2B799 水 85.8 渕 JH-JTB43A	2B7AD 疒 104.5 痊 UTC00868	2B7C1 米 119.11 糧 JH-JTC0F4	2B7D5 艸 140.10 蕲 JH-JTBA01
2B79A 水 85.10 溙 JH-JTB4AC	2B7AE 疒 104.10 癏 TB-733B	2B7C2 糸 120.9 緞 JH-JTB83B	2B7D6 艸 140.11 蕲 GFHZB034
2B79B 水 85.10 湐 GFHZB015	2B7AF 白 106.5 皕 JH-JTB624	2B7C3 糸 120.12 纕 TB-7329	2B7D7 艸 140.12 藏 JH-JTBA55
2B79C 水 85.10 渚 GFHZB016	2B7B0 皿 108.3 盈 JH-JTB634 盈 UTC00869	2B7C4 糹 120'.6 绐 GFHZB028	2B7D8 虫 142.14 蠏 TB-7336
2B79D 水 85.12 潚 JH-JTB4BC	2B7B1 皿 108.4 盈 JH-JTB635	2B7C5 糹 120'.7 纮 GFHZB029	2B7D9 行 144.9 衕 JH-JTBAFD
2B79E 水 85.13 灡 GFHZB017	2B7B2 皿 108.8 塩 JH-JTB63B	2B7C6 糹 120'.8 综 GFHZB030	2B7DA 行 144.11 儒 JH-IB0883
2B79F 水 85.16 灌 JH-JTB4EA	2B7B3 目 109.5 眞 JH-IB0762	2B7C7 糹 120'.9 缍 GFHZB031	2B7DB 衣 145.7 裏 JH-IB0884
2B7A0 火 86.6 為 JH-JTB515	2B7B4 目 109.6 睁 TB-732E	2B7C8 糹 120'.14 缪 GFHZB032	2B7DC 西 146.6 覃 JH-JTC0FC
2B7A1 火 86.7 焿 GFHZB018	2B7B5 示 113.6 祭 JH-JTB6D8	2B7C9 羊 123.3 羡 JH-IB0853	2B7DD 見 147.16 觀 JH-JTBB42
2B7A2 火 86.10 燦 GFHZB019	2B7B6 示 113.7 禃 JH-JTB6E3	2B7CA 耳 128.2 耴 UTC00870	2B7DE 言 149.15 讓 JH-IB0901
2B7A3 牛 93.5 牉 GFHZB020	2B7B7 示 113.12 禕 JH-JTB71A	2B7CB 肉 130.10 膧 TB-732D	2B7DF 讠 149'.4 讠 GFHZB035

2B7E0 氵149'.5 详 GFHZB036	2B7F4 钅167'.3 钯 GFHZB045	2B808 风182'.4 飐 GFHZB064	2B81C 齿211.9 齺 TB-7330
2B7E1 氵149'.8 谉 GFHZB037	2B7F5 钅167'.4 钫 GFHZB046	2B809 风182'.5 飑 GFHZB065	2B81D 齿211'.8 齼 GFHZB074
2B7E2 氵149'.8 谝 GFHZB038	2B7F6 钅167'.4 钪 GFHZB047	2B80A 马187.0 馬 JH-JTBFD4	2B81E 龜213.12 鼇 JH-JTC0B0
2B7E3 氵149'.10 谴 GFHZB039	2B7F7 钅167'.5 铡 GFHZB048	2B80B 马187'.5 驮 GFHZB066	
2B7E4 足157.12 躜 TB-7325	2B7F8 钅167'.5 铊 GFHZB049	2B80C 马187'.11 骃 GFHZB067	
2B7E5 车159'.5 轮 GIDC606	2B7F9 钅167'.6 铽 GFHZB050	2B80D 马187'.13 骦 GFHZB068	
2B7E6 车159'.10 镇 GFHZB040	2B7FA 钅167'.6 铼 GFHZB052	2B80E 鱼195.10 鰰 UTC00874	
2B7E7 车159'.13 辙 GFHZB041	2B7FB 钅167'.6 铰 GFHZB054	2B80F 鱼195.13 鱮 TB-7339	
2B7E8 辵162.2 辽 TB-733A	2B7FC 钅167'.6 铷 GFHZB055	2B810 鬼194.4 魆 GFHZB069	
2B7E9 辵162.9 遠 JH-JTBCD1	2B7FD 钅167'.7 铋 GFHZB053	2B811 鱼195.5 鱽 GFHZB070	
2B7EA 辵162.9 遣 JH-JTBCD3	2B7FE 钅167'.8 铍 GFHZB056	2B812 鱼195.9 鰒 GFHZB071	
2B7EB 辵162.13 邅 JH-444550	2B7FF 钅167'.9 锋 GFHZB057	2B813 鱼195.11 鱒 GFHZB072	
2B7EC 邑163.5 郦 GFHZB042	2B800 钅167'.9 镁 GFHZB059	2B814 鸟196.0 鳥 JH-JTC043	
2B7ED 邑163.8 郮 GFHZB043	2B801 钅167'.10 镭 GFHZB058	2B815 鸟196.5 鴛 JH-IB1171	
2B7EE 邑163.9 郯 GIDC623	2B802 钅167'.14 镼 GFHZB060	2B816 鸟196.11 鷹 JH-JTC061S	
2B7EF 酉164.6 酕 TB-7332	2B803 门169'.5 阆 GFHZB061	2B817 鸟196'.4 鸹 GFHZB073	
2B7F0 里166.2 重 JH-IB1022	2B804 阜170.9 隁 JH-IB0278	2B818 卤197'.8 鹼 UTC00875	
2B7F1 金167.6 鐋 JH-JTBDE1 鐋 UTC00872	2B805 韦178.6 骇 TB-7331	2B819 鼠208.5 鼬 JH-JTC097	
2B7F2 金167.10 鏄 JH-JTBE21	2B806 韦178'.9 韚 GFHZB062	2B81A 齿211.4 齮 TB-7337	
2B7F3 钅167'.2 钆 GFHZB044	2B807 页181'.4 颏 GFHZB063	2B81B 齿211'.5 龂 UTC00859	