

**ISO/IEC JTC 1/SC 2
Coded Character Sets
Secretariat: [Japan \(JISC\)](#)**

DOC. TYPE	Summary of Voting/Table of Replies						
TITLE	Result of voting on SC 2 N 4201, ISO/IEC 10646:2011/PDAM 1.2, Information technology -- Universal Coded Character Set (UCS) -- Amendment 1: Palmyrene, Old North Arabian, Sindhi, Mro, Bassa Vah, and other characters						
SOURCE	SC 2 Secretariat						
PROJECT	JTC 1.02.10646.00.01.00.03						
STATUS	This document is forwarded to WG 2 for resolution of comments. WG 2 is requested to prepare a disposition of comments report, revised text and a recommendation for further processing.						
ACTION ID	FYI						
DUE DATE							
DISTRIBUTION	P, O and L Members of ISO/IEC JTC 1/SC 2 ; ISO/IEC JTC 1 Secretariat; ISO/IEC ITTF						
ACCESS LEVEL	Def						
ISSUE NO.	385						
FILE	<table border="0"> <tr> <td style="padding-right: 20px;">NAME</td> <td>02n4207.pdf</td> </tr> <tr> <td>SIZE (KB)</td> <td></td> </tr> <tr> <td>PAGES</td> <td style="text-align: center;">65</td> </tr> </table>	NAME	02n4207.pdf	SIZE (KB)		PAGES	65
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PAGES	65						

Secretariat ISO/IEC JTC 1/SC 2 - IPSJ/ITSCJ (Information Processing Society of Japan/Information Technology Standards Commission of Japan)* Room 308-3, Kikai-Shinko-Kaikan Bldg., 3-5-8, Shiba-Koen, Minato-ku, Tokyo 105-0011 Japan *Standard Organization Accredited by JISC
Telephone: +81-3-3431-2808; Facsimile: +81-3-3431-6493; E-mail: kimura@itsci.ipsj.or.jp

Result of voting

Ballot Information

Ballot reference	ISO/IEC 10646:2011/PDAM 1.2 - SC2N4201
Ballot type	CIB
Ballot title	Information technology -- Universal Coded Character Set (UCS) -- Amendment 1: Palmyrene, Old North Arabian, Sindhi, Mro, Bassa Vah, and other characters
Opening date	2011-07-29
Closing date	2011-10-29
Note	

Member responses:

Votes cast (26)	Canada (SCC) China (SAC) Egypt (EOS) Finland (SFS) France (AFNOR) Germany (DIN) Greece (ELOT) Hungary (MSZT) Iceland (IST) India (BIS) Indonesia (BSN) Ireland (NSAI) Japan (JISC) Korea, Dem. P. Rep. of (CSK) Korea, Republic of (KATS) Lithuania (LST) Norway (SN) Poland (PKN) Romania (ASRO) Russian Federation (GOST R) Serbia (ISS) Sri Lanka (SLSI) Sweden (SIS) Ukraine (DSSU) United Kingdom (BSI) USA (ANSI)
Comments submitted (1)	Italy (UNI)
Votes not cast (4)	Austria (ASI) Mongolia (MASM) Thailand (TISI) Tunisia (INNORPI)

Questions:

Q.1	"Do you agree with approval of the PDAM Text?"
Q.2	"If you Disapprove the Draft, would you please indicate if you accept to change your vote to Approval if the reasons and appropriate changes will be accepted?"

Votes by members	Q.1	Q.2
Canada (SCC)	Approval with comments	Yes
China (SAC)	Approval with comments	Ignore
Egypt (EOS)	Approval as presented	Ignore
Finland (SFS)	Approval as presented	Ignore
France (AFNOR)	Approval with comments	Ignore
Germany (DIN)	Disapproval of the draft	Yes
Greece (ELOT)	Abstention	Ignore
Hungary (MSZT)	Disapproval of the draft	No
Iceland (IST)	Abstention	Ignore
India (BIS)	Abstention	Ignore
Indonesia (BSN)	Approval as presented	Ignore
Ireland (NSAI)	Disapproval of the draft	Yes
Japan (JISC)	Approval as presented	Ignore
Korea, Dem. P. Rep. of (CSK)	Abstention	No
Korea, Republic of (KATS)	Approval as presented	Ignore
Lithuania (LST)	Approval as presented	Yes
Norway (SN)	Approval as presented	Ignore
Poland (PKN)	Abstention	Ignore
Romania (ASRO)	Disapproval of the draft	Yes
Russian Federation (GOST R)	Abstention	Ignore
Serbia (ISS)	Abstention	Ignore
Sri Lanka (SLSI)	Approval as presented	Ignore
Sweden (SIS)	Abstention	Ignore
Ukraine (DSSU)	Approval as presented	Ignore

United Kingdom (BSI)	Approval with comments	Ignore
USA (ANSI)	Disapproval of the draft	Ignore

Answers to Q.1: "Do you agree with approval of the PDAM Text?"		
9 x	Approval as presented	Egypt (EOS) Finland (SFS) Indonesia (BSN) Japan (JISC) Korea, Republic of (KATS) Lithuania (LST) Norway (SN) Sri Lanka (SLSI) Ukraine (DSSU)
4 x	Approval with comments	Canada (SCC) China (SAC) France (AFNOR) United Kingdom (BSI)
5 x	Disapproval of the draft	Germany (DIN) Hungary (MSZT) Ireland (NSAI) Romania (ASRO) USA (ANSI)
8 x	Abstention	Greece (ELOT) Iceland (IST) India (BIS) Korea, Dem. P. Rep. of (CSK) Poland (PKN) Russian Federation (GOST R) Serbia (ISS) Sweden (SIS)

Answers to Q.2: "If you Disapprove the Draft, would you please indicate if you accept to change your vote to Approval if the reasons and appropriate changes will be accepted?"		
5 x	Yes	Canada (SCC) Germany (DIN) Ireland (NSAI) Lithuania (LST) Romania (ASRO)
2 x	No	Hungary (MSZT) Korea, Dem. P. Rep. of (CSK)
19 x	Ignore	China (SAC) Egypt (EOS) Finland (SFS) France (AFNOR) Greece (ELOT) Iceland (IST) India (BIS) Indonesia (BSN) Japan (JISC) Korea, Republic of (KATS) Norway (SN) Poland (PKN)

Russian Federation (GOST R)
 Serbia (ISS)
 Sri Lanka (SLSI)
 Sweden (SIS)
 Ukraine (DSSU)
 United Kingdom (BSI)
 USA (ANSI)

Comments from Voters		
Member:	Comment:	Date:
Canada (SCC)	Comment File	2011-10-28 20:58:56
CommentFiles/ISO_IEC_10646_2011_PDAM_1.2_-_SC2N4201_SCC.doc		
China (SAC)	Comment File	2011-10-25 08:39:36
CommentFiles/ISO_IEC_10646_2011_PDAM_1.2_-_SC2N4201_SAC.doc		
France (AFNOR)	Comment File	2011-10-27 16:21:44
CommentFiles/ISO_IEC_10646_2011_PDAM_1.2_-_SC2N4201_AFNOR.doc		
Germany (DIN)	Comment File	2011-10-19 11:42:19
CommentFiles/ISO_IEC_10646_2011_PDAM_1.2_-_SC2N4201_DIN.zip		
Hungary (MSZT)	Comment File	2011-10-17 09:37:35
CommentFiles/ISO_IEC_10646_2011_PDAM_1.2_-_SC2N4201_MSZT.doc		
Iceland (IST)	Comment	2011-10-28 17:32:32
Abstension due to lack of expertise		
Ireland (NSAI)	Comment File	2011-10-25 17:43:32
CommentFiles/ISO_IEC_10646_2011_PDAM_1.2_-_SC2N4201_NSAI.doc		
Romania (ASRO)	Comment File	2011-09-23 09:23:44
CommentFiles/ISO_IEC_10646_2011_PDAM_1.2_-_SC2N4201_ASRO.doc		
United Kingdom (BSI)	Comment File	2011-10-17 14:49:30
CommentFiles/ISO_IEC_10646_2011_PDAM_1.2_-_SC2N4201_BSI.doc		
USA (ANSI)	Comment File	2011-10-26 20:10:38
CommentFiles/ISO_IEC_10646_2011_PDAM_1.2_-_SC2N4201_ANSI.doc		

Comments from Commenters		
Member:	Comment:	Date:

Italy (UNI)	<i>Comment</i>	2011-10-19 10:42:51
Abstention		

Canada will have no objection to changing the name (and the corresponding names of the characters in the repertoire) of currently named script 'Old Hungarian' to 'Rovas', to address one of the main objections expressed by the Hungarian national body expert in the feedback document <http://www.dkuug.dk/jtc1/sc2/wg2/docs/n4120.pdf> on the JTC1/SC2/WG2 ad hoc report in <http://www.dkuug.dk/jtc1/sc2/wg2/docs/n4110.pdf> on the topic in 2011 Helsinki WG2 meeting.

China Votes Yes to ISO/IEC JTC1/SC2 N4201, ISO/IEC 10646/PDAM
1.2 with comments.

China request JTC1/SC2 NBs to reach consensus on all issues of every
amendment acceptable solution on Old Hungarian before it becomes a
part of IS.

Template for comments and secretariat observations

1	2	(3)	4	5	(6)	(7)
MB ¹	Clause No./ Subclause No./ Annex (e.g. 3.1)	Paragraph/ Figure/Table/ Note (e.g. Table 1)	Type of com- ment ²	Comment (justification for change) by the MB	Proposed change by the MB	Secretariat observations on each comment submitted
FR	10C80		TE	<p>"Old Hungarian" is a denomination that may cause confusion and lack consistency</p> <p>1/ Possible sources of confusion</p> <ul style="list-style-type: none"> - "Old Hungarian" also describes a stage in the history of Hungarian that is essentially attested by texts written in the Latin script - "Old Hungarian script" was natively used to write Hungarian well into the post-renaissance period in some communities, thus relating to stages of the language by far post-dating Old Hungarian - "Old Hungarian" is used in print even today in instances that symbolically aim at highlighting some elements of continuity in Hungarian history. Nevertheless the language used in such instances is Modern Hungarian and there should be no confusion on that point. <p>2/ Lack of consistency</p> <p>The document provides code points for uppercase and lowercase letters, then rightfully underlines that "<i>The use of uppercase letters is a modern innovation</i>". This document thereby seeks to offer solutions helping modern usage of this script. There is some contradiction to recognizing evolutions of a script in its modern usage and still call it "Old"</p>	<p>Change the denomination of this script to "Hungarian rovas" or simply "Rovas", in the same way that other scripts in 10646 are named with no reference to the language it is/was used for ("ogham, deseret, devanagari...")</p>	

1 **MB** = Member body (enter the ISO 3166 two-letter country code, e.g. CN for China; comments from the ISO/CS editing unit are identified by **)

2 **Type of comment:** **ge** = general **te** = technical **ed** = editorial

NOTE Columns 1, 2, 4, 5 are compulsory.

Template for comments and secretariat observations

1	2	(3)	4	5	(6)	(7)
MB ¹	Clause No./ Subclause No./ Annex (e.g. 3.1)	Paragraph/ Figure/Table/ Note (e.g. Table 1)	Type of comment ²	Comment (justification for change) by the MB	Proposed change by the MB	Secretariat observations on each comment submitted
DE				Germany votes "No with comments". The vote is turned into YES if the requests in comments T1 and T4 are accepted.		
DE			te	<p>T1. Naming of the "Intonation marks for Lithuanian dialectology":</p> <p>The names of the following characters do not describe the characters as shown in the code charts and the original proposal (WG2 N4070 " Second revised proposal to add characters used in Lithuanian dialectology"):</p> <p>2B4E SHORT NORTH EAST ARROW 2B4F SHORT SOUTH EAST ARROW 2B5A NORTH EAST ARROW WITH HOOKED HEAD 2B5B SOUTH EAST ARROW WITH HOOKED TAIL 2B5C NORTH EAST ARROW WITH HORIZONTAL TAIL 2B5D SOUTH EAST ARROW WITH HORIZONTAL TAIL</p> <p>The inclination of the arrows is in no case even near to 45°, as the terms "NORTH EAST" and "SOUTH EAST" unambiguously denote, neither in the code chart nor in the original proposal. Thus, the names are plain wrong.</p>	<p>Germany repeats its request already expressed in WG2 N4085 to name the character correctly as follows:</p> <p>U+2B4E SHORT SLANTED NORTH ARROW U+2B4F SHORT BACKSLANTED SOUTH ARROW U+2B5A SLANTED NORTH ARROW WITH HOOKED HEAD U+2B5B BACKSLANTED SOUTH ARROW WITH HOOKED TAIL U+2B5C SLANTED NORTH ARROW WITH HORIZONTAL TAIL U+2B5D BACKSLANTED SOUTH ARROW WITH HORIZONTAL TAIL</p> <p>Germany considers its request accepted also if the term "NORTH EAST" is replaced by "NORTH NORTH EAST" or "ONE OCLOCK", and the term "SOUTH EAST" is replaced by "SOUTH SOUTH EAST" or "FIVE OCLOCK", instead of "SLANTED" resp. "BACKSLANTED".</p>	
DE			te	<p>T2. Integration of the accepted proposal WG2 N4078 " Revised Proposal to enable the use of Combining Triple Diacritics in Plain Text"</p> <p>WG2 N4078 provides a way to handle diacritics spanning over three or more characters by using joining parts</p>	<p>Following the wording of the annotation for U+FE2B, add the following annotation to U+FE26:</p> <p>"• Used with combining left and right half ligature above to extend above more than two characters."</p>	

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2 Type of comment: ge = general te = technical ed = editorial

NOTE Columns 1, 2, 4, 5 are compulsory.

Template for comments and secretariat observations

1	2	(3)	4	5	(6)	(7)
MB ¹	Clause No./ Subclause No./ Annex (e.g. 3.1)	Paragraph/ Figure/Table/ Note (e.g. Table 1)	Type of comment ²	Comment (justification for change) by the MB	Proposed change by the MB	Secretariat observations on each comment submitted
				combined with each of the single base letters. For diacritics below, new characters were accepted; for diacritics above, existing characters are devised. While the appropriate annotations are given for the new characters (summarized for U+FE2B), they are missing for the existing ones.		
DE			te	<p>T3. Placement of Wingdings characters</p> <p>Germany has not objected to encode the Wingdings symbols when discussing this issue in Helsinki in principle, but has requested that only such symbols will get into the BMP for which actual use is shown.</p>	<p>As a practical solution, Germany requests now that all arrows which show special head shaping or decorative elements will be moved to the SMP into the block "Supplemental Arrows-C, which has enough space. Thus:</p> <p>Move 2B60...2BAE to 1F880...1F8CE, in exchange move 1F880...18F89 to 2B60...2BF9 as this series contains keyboard symbols which are in use.</p> <p>Move 2BD0...2BE7 to 1F8D0...1F8E7.</p> <p>Also, move 2BBE...2BBF into the "Ornament Symbols" block 1F650...1F67F, to have the "heavy punctuation marks" together.</p> <p>Any rearrangement within the affected blocks following these movements is accepted.</p>	
DE			te	<p>T.4 Removing of Wingdings characters which do not comply with the Unicode character/glyph model</p> <p>As part of the Wingdings addition, the following character series are included:</p> <p>U+1F670 LIGATURE ET U+1F671 BOLD LIGATURE ET U+1F672 SANS-SERIF AMPERSAND U+1F673 BOLD SANS-SERIF AMPERSAND</p>	<p>Germany requests the removal of the listed characters except U+1F670.</p> <p>To offer a compromise, Germany considers this comment accepted also if the following is done, based on the fact that the specific appearance of the "sans-serif ampersand" may constitute a character identity rather than a glyph variation, and based on the fact that there already are "heavy" variants of punctuation marks in the Dingbats block:</p>	

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2 Type of comment: ge = general te = technical ed = editorial

NOTE Columns 1, 2, 4, 5 are compulsory.

Template for comments and secretariat observations

1	2	(3)	4	5	(6)	(7)
MB ¹	Clause No./ Subclause No./ Annex (e.g. 3.1)	Paragraph/ Figure/Table/ Note (e.g. Table 1)	Type of comment ²	Comment (justification for change) by the MB	Proposed change by the MB	Secretariat observations on each comment submitted
				<p>U+1F674 BOLD AMPERSAND U+1F678 BOLD INTERROBANG U+1F679 SANS SERIF INTERROBANG U+1F67A BOLD SANS-SERIF INTERROBANG</p> <p>Regarding the interrobangs, the original Wingdings proposal WG2 N4115 also shows a "serifed-font-style" interrobang (ID 2093) which is considered to be unified with U+203D INTERROBANG.</p> <p>This is glyph encoding. Even if it is agreed that Wingding characters are to be included into Unicode without proof of actual use (but only based on availability on a large part of present-day computing equipment), there is no argument that roundtrip encoding between Unicode (ISO/IEC 10646) and the "existing standard" Wingdings is necessary (which would be the only reason to accept glyph encoding). Also, unifying just one glyph (the "serifedfont- style" one) with the existing character is arbitrary.</p> <p>In fact, all these characters already are perfectly represented in Unicode (by U+0026 AMPERSAND and U+203D INTERROBANG), and U+1F671 is perfectly represented in Unicode when U+1F670 is accepted. The exact glyph is to be selected by the rendering system (font etc.), according to the Unicode character/glyph model (as it has to be done even with the PDAM 1.2 character set, as a "serifed-font-style" interrobang glyph can only be gained by selecting an appropriate font).</p>	<p>Only U+1F678 and U+1F679 are removed. The other characters are renamed as follows:</p> <p>U+1F670 SCRIPT LIGATURE ET U+1F671 HEAVY SCRIPT LIGATURE ET SYMBOL U+1F672 LIGATURE OPEN ET (or similar) U+1F673 HEAVY LIGATURE OPEN ET (or similar) SYMBOL U+1F674 HEAVY AMPERSAND SYMBOL U+1F67A HEAVY INTERROBANG SYMBOL</p> <p>following by any rearrangement of the code points (including, but not requested here, moving of 1F670/1F672/1F675 to the Supplemental Punctuation block in the BMP).</p>	
DE			te	<p>T.5 Completing the set of "Sans-Serif heavy double quotation mark ornaments"</p> <p>As part of the Wingdings addition, the following character series is included:</p>	<p>Germany requests the addition of the character completing this series:</p> <p>U+1F67x SANS-SERIF LOW HEAVY DOUBLE COMMA QUOTATION MARK ORNAMENT</p>	

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2 Type of comment: ge = general te = technical ed = editorial

NOTE Columns 1, 2, 4, 5 are compulsory.

Template for comments and secretariat observations

Date: 2011-10-18	Document: ISO/IEC 10646:2011/PDAM 1
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1	2	(3)	4	5	(6)	(7)
MB¹	Clause No./ Subclause No./ Annex (e.g. 3.1)	Paragraph/ Figure/Table/ Note (e.g. Table 1)	Type of com- ment²	Comment (justification for change) by the MB	Proposed change by the MB	Secretariat observations on each comment submitted
				<p>U+1F676 SANS-SERIF HEAVY DOUBLE TURNED COMMA QUOTATION MARK ORNAMENT</p> <p>U+1F677 SANS-SERIF HEAVY DOUBLE COMMA QUOTATION MARK ORNAMENT</p> <p>This series is only usable for American typography and lacks the opening quotation mark which is needed for German typography done in the same style.</p>	<p>(a formal proposal will be submitted in time).</p> <p>For formal reasons only, Germany notes that this comment is accepted also if U+1F676/1F677 are withdrawn from PDAM 1.2 for any reason.</p>	

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2 **Type of comment:** **ge** = general **te** = technical **ed** = editorial

NOTE Columns 1, 2, 4, 5 are compulsory.

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

Doc Type: Working Group Document

Title: Request to add the characters proposed in WG2 N4068 to PDAM 1.3

Source: German NB

Action: For consideration by JTC1/SC2/WG2 at the discussion of PDAM 1.2

Date: 2011-10-18

WG2 N4068 was submitted to SC2/WG2 as a liaison proposal by SC35, requesting the encoding of missing Latin small capital and modifier letters.

This proposal was on the agenda of the JTC1/SC2/WG2 June 6-10, 2011, in Helsinki.

In fact, at that meeting, it was not discussed due to lack of time.

Germany already had requested the addition in WG2 N4085, section 3.

As this German request persists, the text of that section is repeated here, with added text shown in italics.

The German NB welcomes this proposal, especially (besides the reasons listed in the proposal) as it will save the time to discuss and decide any single character whenever new evidence is found.

In discussions on the Unicode mailing list and forum, concerns were issued that having the sets of modifier letters derived from the basic Latin letters (A...Z) complete will invite users to "misuse" them, by using them to obtain a different style instead denoting of a different semantic (like using the small capital letters to get smallcaps). However, this already can be done with the current almost complete sets, and has to be taken into account by search engines etc. anyway (and imposes no real problem as all these characters have compatibility equivalences to the respective base letters). It also should be noted that quasistandards like the Adobe Glyph List 2.0 already have encoded such complete sets (using the PUA), thus indicating style by character selection rather by markup is already an existing practice. (Such practice may be considered "bad", but standards are there for serving their users rather than for educating them.)

In addition, concerns were issued that encoding the modifier forms of the basic Latin letters (A...Z) will encourage proposals for more letters. The addition of the complete set of basic Latin squared letters A...Z in Unicode 6.0 (like the encircled letters long ago) has proven that such is not an automatic consequence.

Moreover, the German NB is concerned about the fact that SC35/WG2, which identifies characters in keyboard standards by Unicode values only recently, has partially to deviate from this in a recent standard draft (ISO/IEC 9995-9 CD), by the plain fact that specifying a method to enter raised, lowered, and small capital forms of the basic Latin letters A...Z/a...z (as part of language orthographies, not as style) results in a mapping to a character set which cannot completely enumerated by Unicode. Even if the PUA positions used in that draft "are only for internal reference", there is the danger that they will in fact be used by referencing to an international standard, thus weakening the position of Unicode for a larger audience. This can be avoided when SC2/WG2 is prepared to cooperate with SC25/WG2 by accepting the characters proposed in N4068 in time.

Thus, the German NB requests the addition of the characters proposed in N4068 now to PDAM 1.3 of ISO/IEC 10646.

Technical note: The code range of the block "Phonetic Extensions Supplement B" referred to in N4068 is now part of the block "Latin Extended-E". However, the proposed code points for the characters there are still appropriate.

Doc Type: Working Group Document

Title: Proposal to encode an additional sans-serif heavy double quote symbol in the UCS

Source: German NB

Status: National Body Contribution

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

Date: 2011-10-17

Block: Ornament Symbols

Quotation Marks

” U+1F67x SANS-SERIF HEAVY LOW DOUBLE COMMA QUOTATION MARK ORNAMENT
→ 2760 heavy low double comma quotation mark ornament

Properties:

1F67x;SANS-SERIF HEAVY LOW DOUBLE COMMA QUOTATION MARK ORNAMENT;So;0;ON;;;;;N;;;;;

This proposal accompanies the German Comments on ISO/IEC 10646 FPDAM 1.2 (SC2 N4107).

There is stated:

T.5 Completing the set of "Sans-Serif heavy double quotation mark ornaments"

As part of the Wingdings addition, the following character series is included:

U+1F676 SANS-SERIF HEAVY DOUBLE TURNED COMMA QUOTATION MARK ORNAMENT

U+1F677 SANS-SERIF HEAVY DOUBLE COMMA QUOTATION MARK ORNAMENT

This series is only usable for American typography and lacks the opening quotation mark which is needed for German typography done in the same style.

Germany requests the addition of the character completing this series:

U+1F67x SANS-SERIF LOW HEAVY DOUBLE COMMA QUOTATION MARK ORNAMENT

**ISO/IEC JTC 1/SC 2/WG 2
PROPOSAL SUMMARY FORM TO ACCOMPANY SUBMISSIONS
FOR ADDITIONS TO THE REPERTOIRE OF ISO/IEC 10646¹**

Please fill all the sections A, B and C below.

Please read Principles and Procedures Document (P & P) from <http://www.dkuug.dk/JTC1/SC2/WG2/docs/principles.html> for guidelines and details before filling this form.

Please ensure you are using the latest Form from <http://www.dkuug.dk/JTC1/SC2/WG2/docs/summaryform.html>.

See also <http://www.dkuug.dk/JTC1/SC2/WG2/docs/roadmaps.html> for latest Roadmaps.

A. Administrative

1. Title: **Proposal to encode an additional sans-serif heavy double quote symbol in the UCS**
2. Requester's name: *German NB*
3. Requester type (Member body/Liaison/Individual contribution): *Member Body*
4. Submission date: *2011-10-17*
5. Requester's reference (if applicable):
6. Choose one of the following:
- This is a complete proposal: *Yes*
- (or) More information will be provided later:

B. Technical – General

1. Choose one of the following:
- a. This proposal is for a new script (set of characters): *No*
- Proposed name of script:
- b. The proposal is for addition of character(s) to an existing block: *Yes*
- Name of the existing block: *Ornament Symbols (introduced in PDAM 1.2)*
2. Number of characters in proposal: *1*
3. Proposed category (select one from below - see section 2.2 of P&P document):
- A-Contemporary B.1-Specialized (small collection) B.2-Specialized (large collection)
- C-Major extinct D-Attested extinct E-Minor extinct
- F-Archaic Hieroglyphic or Ideographic G-Obscure or questionable usage symbols
4. Is a repertoire including character names provided? *Yes*
- a. If YES, are the names in accordance with the "character naming guidelines" in Annex L of P&P document? *Yes*
- b. Are the character shapes attached in a legible form suitable for review? *Yes*
5. Fonts related:
- a. Who will provide the appropriate computerized font to the Project Editor of 10646 for publishing the standard? *n/a*
- b. Identify the party granting a license for use of the font by the editors (include address, e-mail, ftp-site, etc.):
6. References:
- a. Are references (to other character sets, dictionaries, descriptive texts etc.) provided? *Yes*
- b. Are published examples of use (such as samples from newspapers, magazines, or other sources) of proposed characters attached? *No (as usual for Wingdings symbols)*
7. Special encoding issues:
- Does the proposal address other aspects of character data processing (if applicable) such as input, presentation, sorting, searching, indexing, transliteration etc. (if yes please enclose information)? *No*

8. Additional Information:

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

¹ Form number: N3902-F (Original 1994-10-14; Revised 1995-01, 1995-04, 1996-04, 1996-08, 1999-03, 2001-05, 2001-09, 2003-11, 2005-01, 2005-09, 2005-10, 2007-03, 2008-05, 2009-11, 2011-03)

see Unicode Character Database (<http://www.unicode.org/reports/tr44/>) and associated Unicode Technical Reports for information needed for consideration by the Unicode Technical Committee for inclusion in the Unicode Standard.

C. Technical - Justification

1. Has this proposal for addition of character(s) been submitted before? If YES explain	No
2. Has contact been made to members of the user community (for example: National Body, user groups of the script or characters, other experts, etc.)? If YES, with whom? If YES, available relevant documents:	Yes <i>Experts within the NB</i> <i>see text</i>
3. Information on the user community for the proposed characters (for example: size, demographics, information technology use, or publishing use) is included? Reference:	Yes <i>Everybody composing documents in Germany</i>
4. The context of use for the proposed characters (type of use; common or rare) Reference:	Common <i>see text</i>
5. Are the proposed characters in current use by the user community? If YES, where? Reference:	Yes <i>in Germany (see text)</i>
6. After giving due considerations to the principles in the P&P document must the proposed characters be entirely in the BMP? If YES, is a rationale provided? If YES, reference:	No
7. Should the proposed characters be kept together in a contiguous range (rather than being scattered)?	n/a
8. Can any of the proposed characters be considered a presentation form of an existing character or character sequence? If YES, is a rationale for its inclusion provided? If YES, reference:	No
9. Can any of the proposed characters be encoded using a composed character sequence of either existing characters or other proposed characters? If YES, is a rationale for its inclusion provided? If YES, reference:	No
10. Can any of the proposed character(s) be considered to be similar (in appearance or function) to an existing character? If YES, is a rationale for its inclusion provided? If YES, reference:	No
11. Does the proposal include use of combining characters and/or use of composite sequences? If YES, is a rationale for such use provided? If YES, reference: Is a list of composite sequences and their corresponding glyph images (graphic symbols) provided? If YES, reference:	No
12. Does the proposal contain characters with any special properties such as control function or similar semantics? If YES, describe in detail (include attachment if necessary)	No
13. Does the proposal contain any Ideographic compatibility characters? If YES, are the equivalent corresponding unified ideographic characters identified? If YES, reference:	No

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1	2	(3)	4	5	(6)	(7)
MB ¹	Clause No./ Subclause No./ Annex (e.g. 3.1)	Paragraph/ Figure/Table/ Note (e.g. Table 1)	Type of com- ment ²	Comment (justification for change) by the MB	Proposed change by the MB	Secretariat observations on each comment submitted
HU	Clause 31	Page 48- 2180, Page 2185, Page 2188	te	The term Old Hungarian is incorrect. The correct term is "Szekely-Hungarian Rovas" . The term "Old Hungarian" is used for a completely different script, namely the medieval version of the Hungarian Latin-based orthography. See ISO/IEC JTC1/Sc2/WG2 N4120, Section 2.1 for the detailed reasoning (http://std.dkuug.dk/JTC1/sc2/wg2/docs/n4120.pdf)	Change the term "Old Hungarian" to "Szekely-Hungarian Rovas"	
HU	Annex G	Page 1379	te	The proposed character set for the Szekely-Hungarian Rovas (with the incorrect name "Old Hungarian") is incorrect. Reasons: <ol style="list-style-type: none"> 1. The character repertoire is based on the outdated results of the palaeography in the early 20th century and some unscientific and popular web sites, on which information is unreliable and incorrect in many cases. Oppositely, the correct character repertoire must contain the contemporary and the historical Szekely-Hungarian Rovas characters, which are listed in the proposal of the Hungarian Standard Body; see ISO/IEC JTC1/SC2/WG2 N4007, Section 3.1, http://std.dkuug.dk/JTC1/sc2/wg2/docs/n4007.pdf 2. The term "Old Hungarian" is already used by Hungarian linguists for denoting the medieval version of the Hungarian Latin-based script, which is wildly different to the Szekely-Hungarian Rovas script (for instance, see <i>Ch. 3</i> of N4120 (2011-07-05)). Therefore, using the term "Old Hungarian" for the Szekely-Hungarian Rovas is misleading. More details about the Old Hungarian script: http://wiki.rovas.info/index.php/Old_Hungarian_script 3. The Szekely-Hungarian Rovas script has been developed ca. the end 8th c., in the Ancient Hungarian linguistic period (1st millennium BC – 896 AD), <u>before</u> the Old Hungarian linguistic period (896-1526). 	The "Old Hungarian" block is unacceptable and unimprovable; therefore it must be completely changed to the character repertoire in the proposal of the Hungarian Standard Body, see ISO/IEC JTC1/SC2/WG2 N4007, Section 3.1, http://std.dkuug.dk/JTC1/sc2/wg2/docs/n4007.pdf	

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2 **Type of comment:** **ge** = general **te** = technical **ed** = editorial

NOTE Columns 1, 2, 4, 5 are compulsory.

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				<p>Consequently, using the name “Old Hungarian script” for an earlier script would be misleading.</p> <p>4. Using the expression “Old Hungarian” for denoting the Szekely-Hungarian Rovas has no tradition either in Hungarian culture or in the script history.</p> <p>Moreover, there are several arguments for the term “Szekely-Hungarian Rovas”:</p> <p>5. The variety of traditional names for this script usually contains adjectives; the most frequent ones being “Szekely” and “Hungarian”. Therefore, the widely accepted name “Szekely-Hungarian Rovas” correctly reflects the traditional naming. The Hungarian ethnic group Szekelys played a key role in preserving the tradition of Szekely-Hungarian Rovas and regard this script as key part of their identity.</p> <p>6. Throughout history, the term Rovas has been widely used, moreover having found common use in the Hungarian language today. Although the term “Rovas” is of Hungarian-origin, it has been widely used in numerous languages; see in the Ch. 4 of N4120 (2011-07-05).</p> <p>7. The Rovas using community organized the “Living Rovas” Conference in 2008, in Hungary, which was the largest ever Rovas user/researcher meeting. At this conference, after a detailed discussion, the attendance made the resolution that the English name of the script is “Szekely-Hungarian Rovas” – being the correct translation of the appropriate Hungarian term “székely-magyar rovás”.</p> <p>8. The term “Rovas” is a <u>category name</u>; three related scripts belong to this script family, namely: Szekely-Hungarian Rovas, Carpathian Basin Rovas (see</p>		

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				<p>N4144, 2011-10-12), and Khazarian Rovas (see N4145, 2011-10-12). The close relation of Carpathian Basin Rovas to Szekely-Hungarian Rovas has been shown by linguist and Turkologist Gyula Németh in 1932. Moreover, according to the archaeologist-historian István Erdélyi, the Khazarian Rovas is related to Carpathian Basin Rovas and Szekely-Hungarian Rovas. More details about the Rovas script family: http://wiki.rovas.info/index.php/Rovas_Script_Family</p> <p>9. The research into the field of the Rovas scripts are mainly published in Hungarian and only little information is available in English. Consequently, the English databases are outdated in most cases. Especially, the results of the last 2-3 decades are missing from western literature as only a small portion of the Hungarian publications on this topic have been translated. The contributions of the Hungarian NB use and refer to the results of international and the Hungarian scholars.</p> <p>10. The proposed character names are incorrect. These are based on few medieval relics. However, the characters of this script have well accepted names both in scientific and popular literature. The main reason for encoding the Szekely-Hungarian Rovas script is for present-day use, therefore, the contemporary character names of the letters has to be used in the standard. The archaic character names used in the N4110 resolution shows an outdated state of the Rovas-related paleography of the early 20th century. During that time, a Szekely-Hungarian Rovas relic, the so-called Nikolsburg Alphabet was the only significant Rovas relic. Based on this, only a static view of the Szekely-Hungarian Rovas scripts existed in the early 20th century.</p>		

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				<p>However, after exploring several archaeological finds in the 20th-21st centuries, several earlier Rovas relics were found, making possible further advances of Rovas script history.</p> <p>11. Another essential condition to be considered is the vital present-day use of the Szekely-Hungarian Rovas orthography. The user base of the Szekely-Hungarian Rovas is represented in every country in Europe where Hungarian populations exist and in the global Hungarian community as well. Currently, in every part of the Hungarian society including the state administration, the number of Szekely-Hungarian Rovas users is dynamically increasing. This strong and conscious user support is clearly manifested, as in the Hungarian NB professional and civil Rovas stakeholders officially support the three Rovas proposals – the Szekely-Hungarian Rovas (N4007), the Carpathian Basin Rovas (N4144), and the Khazarian Rovas (N4145).</p>		
HU	Clause 31	Page 48- 2180, Page 2185, Page 2188	ge	<p>The term Old Hungarian is false. The right term is “Szekely-Hungarian Rovas”. The term “Old Hungarian” is used for a fully different script, the Medieval version of the Hungarian Latin-based orthography. See ISO/IEC JTC1/Sc2/WG2 N4120, Section 2.1 for detailed reasoning (http://std.dkuug.dk/JTC1/sc2/wg2/docs/n4120.pdf)</p>	Changing “Old Hungarian” to “Szekely-Hungarian Rovas”	
HU	Annex G	Page 1379	ge	<p>The proposed character set for the Szekely-Hungarian Rovas (with false name: “Old Hungarian”) is wrong. Reasons:</p> <p>12. The character repertoire is based on the outdated results of the palaeography in the mid-20th century and some unscientific, popular web sites, of which information is unreliable and incorrect in many cases. Oppositely, the right character repertoire must contain the contemporary and the historically</p>	<p>The “Old Hungarian” block is unacceptable and unimprovable; therefore it must be totally change to the character repertoire in the proposal of the Hungarian Standard Body, See ISO/IEC JTC1/Sc2/WG2 N4007, Section 3.1, http://std.dkuug.dk/JTC1/sc2/wg2/docs/n4007.pdf</p>	

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				<p>Szekely-Hungarian Rovas characters, which are listed in the proposal of the Hungarian Standard Body, See ISO/IEC JTC1/Sc2/WG2 N4007, Section 3.1, http://std.dkuug.dk/JTC1/sc2/wg2/docs/n4007.pdf</p> <p>13. The proposed character names are wrong. These are based on a few medieval relics; however, the characters of this script have generally used names.</p>		

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Irish comments on ISO/IEC PDAM 1.2 10646:2011

Reference: SC2 N4201

Closes: 2011-10-29

Date: 2011-10-25

Ireland **disapproves** the draft with the technical and editorial comments given below. Acceptance of these comments and appropriate changes to the text will change our vote to approval. In the attached charts, characters proposed to be added to the PDAM are coloured in yellow, and characters whose names are proposed to be changed are coloured in blue. Characters which have been proposed to be moved have “• was xxxx” in the names list indicating their code position in PDAM 1.2.

T1. Page 52, Row 2B0: Miscellaneous Symbols and Arrows. Ireland recommends the removal of the following characters from this table (to be moved elsewhere):

2BA3, 2BA4, 2BA5, 2BA6, 2BA7, 2BA8, 2BA9, 2BAA
2BBE, 2BBF
2BC3, 2BC4, 2BCB, 2BCD
2BD0, 2BD1, 2BD2, 2BD3, 2BD4, 2BD5, 2BD6, 2BD7, 2BD8, 2BD9, 2BDA, 2BDB
2BE0, 2BE1, 2BE2, 2BE3, 2BE4, 2BE5, 2BE6, 2BE7, 2BE9, 2BEA, 2BEB, 2BEC, 2BED,
2BEE, 2BEF,
2BF0, 2BF1, 2BF2, 2BF3

b) Ireland recommends moving the following characters to this table:

1F800, 1F801, 1F802, 1F803, 1F804, 1F805, 1F806, 1F807, 1F808, 1F809, 1F80A, 1F80B,
1F80C, 1F80D, 1F80E, 1F80F
1F810, 1F811, 1F812, 1F813, 1F814, 1F815, 1F818, 1F819, 1F81A, 1F81B, 1F81C, 1F81D,
1F81E, 1F81F
1F820, 1F821, 1F822, 1F823, 1F824, 1F825, 1F826, 1F827
1F834, 1F835
1F878, 1F879, 1F87A, 1F87B, 1F87C, 1F87D
1F880, 1F881, 1F882, 1F883, 1F884, 1F885, 1F886, 1F887, 1F888, 1F889

c) Ireland recommends adding the following new characters to this table:

2B74 LEFT RIGHT TRIANGLE-HEADED ARROW TO BAR
2B75 UP DOWN TRIANGLE-HEADED ARROW TO BAR
2B77 NORTH EAST TRIANGLE-HEADED ARROW TO BAR
2B79 SOUTH WEST TRIANGLE-HEADED ARROW TO BAR
2B7A LEFTWARDS TRIANGLE-HEADED ARROW WITH DOUBLE HORIZONTAL
STROKE
2B7C RIGHTWARDS TRIANGLE-HEADED ARROW WITH DOUBLE HORIZONTAL
STROKE
2B81 UPWARDS TRIANGLE-HEADED ARROW LEFTWARDS DOWNWARDS
TRIANGLE-HEADED ARROW
2B82 RIGHTWARDS TRIANGLE-HEADED ARROW OVER LEFTWARDS TRIANGLE-
HEADED ARROW
2BD0 UPWARDS TRIANGLE-HEADED ARROW WITH HEAVY SHAFT
2BD1 DOWNWARDS TRIANGLE-HEADED ARROW WITH HEAVY SHAFT

d) Ireland recommends ordering the characters in the table as shown below.

T2. Page 65, Row A72: Latin Extended-A. With reference to ISO/IEC JTC1/SC2/WG2 N4030R “Proposal for the addition of six Latin characters to the UCS”, Ireland requests that the following characters be added to PDAM 1.2:

A796 LATIN CAPITAL LETTER B WITH FLOURISH
 A797 LATIN SMALL LETTER B WITH FLOURISH
 A7AB LATIN CAPITAL LETTER REVERSED OPEN E
 A7AC LATIN CAPITAL LETTER SCRIPT G
 A7F6 LATIN CAPITAL LETTER SIDEWAYS I
 A7F7 LATIN SMALL LETTER SIDEWAYS I

T3. Page 65, Row A72: Latin Extended-A. Ireland reiterates its strong support for the encoding of A79F LATIN LETTER MIDDLE DOT in this table.

T4. Page 71, Row FE2: Combining Half Marks. With reference to ISO/IEC JTC1/SC2/WG2 N4130R “Proposal for encoding the Caucasian Albanian script in the SMP of the UCS”, Ireland requests that the character at FE2B COMBINING CONJOINING MACRON BELOW be moved to FE2D.

b) Ireland also requests that the following characters be added to PDAM 1.2:

FE2B COMBINING MACRON LEFT HALF BELOW
 FE2C COMBINING MACRON RIGHT HALF BELOW

T5. Page 98, Row 11AC: Pau Cin Hau. Ireland requests that the inherent vowel -A be added to the names of the characters from 11AC0 through 11AD4. The assertions given by the author of N4017 for this were not sufficient to omit a vowel from the character names, as is the normal practice for UCS names for scripts of this region. In fact, the use of an -a does *not* imply that there is an inherent vowel in the alphabet (any more than -e implies that there is an inherent vowel in Old Italic. Ireland strongly prefers to use the transliteration names as attested in Figures 2 and 8 of N4017. We do not request a change to the names of the final consonants, as the proposed names are congruent with other names of similar characters in the UCS.

T6. Page 113, Row 1F30: Miscellaneous Symbols and Pictographs. Ireland recommends adding the following new characters to this table:

1F395 BOUQUET OF FLOWERS
 1F397 BEAMED DESCENDING MUSICAL NOTES
 1F569 RIGHT SPEAKER WITH ONE SOUND WAVE
 1F56A RIGHT SPEAKER WITH THREE SOUND WAVES
 1F596 REVERSED VICTORY HAND
 1F597 REVERSED HAND WITH MIDDLE FINGER EXTENDED
 1F598 RAISED HAND WITH PART BETWEEN MIDDLE AND RING FINGERS
 1F5DF DECREASE FONT SIZE SYMBOL

b) Ireland recommends changing the 1F581 BLACK ENVELOPE WITH WHITE LIGHTNING to ENVELOPE WITH LIGHTNING. There is no inherent necessity for there to be “blackness”

in the envelope or “whiteness” in the lightning. The essential concept of this symbol is “electronic mail”. The essential glyphs here are those of an envelope (which is white) and of 26A1 HIGH VOLTAGE SIGN (which is black).

c) Ireland recommends using a reversed 270D WRITING HAND glyph for 1F58A LEFT WRITING HAND.

d) Ireland recommends basing the glyph for 1F5DB BLACK FOLDER on the glyph for 1F5DA FOLDER.

e) Ireland recommends ordering the characters in the table as shown below.

T7. Page 128, Row 1F65: Ornament Symbols. Ireland requests the change of the block name to “Ornamental Dingbats”; these characters are dingbats, not symbols for things.

b) Ireland requests that 2BBE and 2BBF be moved into this table.

c) Ireland requests that the word POINTING be added to the names of 1F650, 1F651, 1F652, 1F653, 1F654, 1F655, 1F656, 1F657.

d) Ireland requests that the word ORNAMENT be added to the names of 1F670, 1F671, 1F672, 1F673, 1F674, 1F675. The word “ornaments” should also be added to the section headings.

e) Ireland recommends adding the following new character to this table:

1F678 SANS-SERIF HEAVY LOW DOUBLE COMMA QUOTATION MARK ORNAMENT

f) Ireland recommends ordering the characters in the table as shown below.

T8. Page 130, Row 1F68: Transport and Map Symbols. Ireland requests that 2BCB and 1F6E6 be moved into this table.

b) Ireland recommends ordering the characters in the table as shown below.

T9. Page 132, Row 1F78: Geometric Shapes Extended. Ireland recommends ordering the characters in the table as shown below.

T10. Page 136, Row 1F80: Supplemental Arrows-C. Ireland recommends the removal of the following characters from this table (to be moved elsewhere):

1F800, 1F801, 1F802, 1F803, 1F804, 1F805, 1F806, 1F807, 1F808, 1F809, 1F80A, 1F80B,
1F80C, 1F80D, 1F80E, 1F80F

1F810, 1F811, 1F812, 1F813, 1F814, 1F815, 1F818, 1F819, 1F81A, 1F81B, 1F81C, 1F81D,
1F81E, 1F81F

1F820, 1F821, 1F822, 1F823, 1F824, 1F825, 1F826, 1F827

1F834, 1F835

1F878, 1F879, 1F87A, 1F87B, 1F87C, 1F87D

1F880, 1F881, 1F882, 1F883, 1F884, 1F885, 1F886, 1F887, 1F888, 1F889

b) Ireland recommends moving the following characters to this table:







































































































































































2BA3, 2BA4, 2BA5, 2BA6, 2BA7, 2BA8, 2BA9, 2BAA
 2BD0, 2BD1, 2BD2, 2BD3, 2BD4, 2BD5, 2BD6, 2BD7, 2BD8, 2BD9, 2BDA, 2BDB
 2BE0, 2BE1, 2BE2, 2BE3, 2BE4, 2BE5, 2BE6, 2BE7

c) Ireland recommends adding the following new characters to this table:

1F801 UPWARDS TRIANGLE-HEADED ARROW WITH NARROW SHAFT
 1F803 DOWNWARDS TRIANGLE-HEADED ARROW WITH NARROW SHAFT
 1F805 UPWARDS TRIANGLE-HEADED ARROW WITH MEDIUM SHAFT
 1F807 DOWNWARDS TRIANGLE-HEADED ARROW WITH MEDIUM SHAFT
 1F809 UPWARDS TRIANGLE-HEADED ARROW WITH BOLD SHAFT
 1F80B DOWNWARDS TRIANGLE-HEADED ARROW WITH BOLD SHAFT
 1F80D UPWARDS TRIANGLE-HEADED ARROW WITH VERY HEAVY SHAFT
 1F80F DOWNWARDS TRIANGLE-HEADED ARROW WITH VERY HEAVY SHAFT
 1F811 UPWARDS FINGER-POST ARROW
 1F813 DOWNWARDS FINGER-POST ARROW

d) Ireland recommends ordering the characters in the table as shown below.

- E1. **Page 21, Row 090: Devanagari.** Ireland requests to know why the dotted circle has been removed from the glyph 0903 DEVANAGARI SIGN VISARGA.
- E2. **Page 30, Row 0D0: Malayalam.** Ireland recommends that the missing dotted circles for 0D44, 0D4E, and 0D62 be restored.
- E3. **Page 47, Row 230: Miscellaneous Technical.** Ireland requests that the annotations for 23F4, 23F5, 23F6, and 23F7 be changed to simple cross-references to 25C0, 25B6, 25B2, and 25BC respectively. The choice of isosceles right triangle and equilateral triangle for these audio and video navigation functions is surely a matter of choice of the implementor. We request therefore that reciprocal annotations be placed in the Geometric Shapes block.
- E4. **Page 47, Row 230: Miscellaneous Technical.** Ireland suggests that a cross reference to 2016 DOUBLE VERTICAL LINE be placed at 23F8, and vice-versa.
- E5. **Page 48, Row 270: Dingbats.** Ireland suggests that the chart glyph for 2700 BLACK SAFETY SCISSORS be modified to look more “safety-like” and somewhat less like the glyph for 2702.
- E6. **Page 52, Row 2B0: Miscellaneous Symbols and Arrows.** Ireland recommends the correction of the misspelling “overal” to “overall” for 2B4F.

	2B0	2B1	2B2	2B3	2B4	2B5	2B6	2B7	2B8	2B9	2BA	2BB	2BC	2BD	2BE	2BF
0																
							2B60	2B70	2B80	2B90	2BA0	2BB0	2BC0	2BD0	2BE0	2BF0
1																
							2B61	2B71	2B81	2B91	2BA1	2BB1	2BC1	2BD1	2BE1	2BF1
2																
							2B62	2B72	2B82	2B92	2BA2	2BB2	2BC2	2BD2	2BE2	2BF2
3																
							2B63	2B73	2B83	2B93	2BA3	2BB3	2BC3	2BD3	2BE3	2BF3
4																
							2B64	2B74	2B84	2B94	2BA4	2BB4	2BC4	2BD4	2BE4	2BF4
5																
							2B65	2B75	2B85	2B95	2BA5	2BB5	2BC5	2BD5	2BE5	2BF5
6																
							2B66	2B76	2B86	2B96	2BA6	2BB6	2BC6	2BD6	2BE6	2BF6
7																
							2B67	2B77	2B87	2B97	2BA7	2BB7	2BC7	2BD7	2BE7	2BF7
8																
							2B68	2B78	2B88	2B98	2BA8	2BB8	2BC8	2BD8	2BE8	2BF8
9																
							2B69	2B79	2B89	2B99	2BA9	2BB9	2BC9	2BD9	2BE9	2BF9
A																
						2B5A	2B6A	2B7A	2B8A	2B9A	2BAA	2BBA	2BCA	2BDA	2BEA	2BFA
B																
						2B5B	2B6B	2B7B	2B8B	2B9B	2BAB	2BBB	2BCB	2BDB	2BEB	2BFB
C																
						2B5C	2B6C	2B7C	2B8C	2B9C	2BAC	2BBC	2BCC	2BDC	2BEC	2BFC
D																
						2B4D	2B5D	2B6D	2B7D	2B8D	2B9D	2BAD	2BBD	2BCD	2BDD	2BED
E																
						2B4E	2B5E	2B6E	2B7E	2B8E	2B9E	2BAE	2BBE	2BCE	2BDE	2BFE
F																
						2B4F	2B5F	2B6F	2B7F	2B8F	2B9F	2BAF	2BBF	2BCF	2BDF	2BFF

Triangle-headed zigzag arrow

- 2B4D ↯ DOWNWARDS TRIANGLE-HEADED ZIGZAG ARROW
= w-3055
→ 21AF ↯ downwards zigzag arrow
• was 2b96

Intonation marks for Lithuanian dialectology

- 2B4E ˊ SHORT NORTH EAST ARROW
• slight rise in tone
- 2B4F ˋ SHORT SOUTH EAST ARROW
• slight fall or overall fall in tone when at the end of a word or at the beginning of a phrase respectively

Intonation marks for Lithuanian dialectology

- 2B5A ʹ NORTH EAST ARROW WITH HOOKED HEAD
• increasing tone with falling trend at the end
- 2B5B ʸ SOUTH EAST ARROW WITH HOOKED TAIL
• sharp rise and fall in tone
- 2B5C ʹ NORTH EAST ARROW WITH HORIZONTAL TAIL
• continued rise in tone
- 2B5D ʸ SOUTH EAST ARROW WITH HORIZONTAL TAIL
• continued fall in tone
- 2B5E ʹ BENT ARROW POINTING DOWNWARDS THEN NORTH EAST
• sharp fall in tone with rising trend at the end
- 2B5F ʹ SHORT BENT ARROW POINTING DOWNWARDS THEN NORTH EAST
• slight fall in tone with rising trend at the end

Simple triangle-headed arrows

- 2B60 ← LEFTWARDS TRIANGLE-HEADED ARROW
= w-3033
→ 2190 ← leftwards arrow
• was 2b68
- 2B61 ↑ UPWARDS TRIANGLE-HEADED ARROW
= w-3035
→ 2191 ↑ upwards arrow
• was 2b6A
- 2B62 → RIGHTWARDS TRIANGLE-HEADED ARROW
= w-3034
→ 279D → triangle-headed rightwards arrow
→ 2192 → rightwards arrow
• was 2b6A
- 2B63 ↓ DOWNWARDS TRIANGLE-HEADED ARROW
= w-3036
→ 2193 ↓ downwards arrow
• was 2b6B
- 2B64 ↔ LEFT RIGHT TRIANGLE-HEADED ARROW
= w-3049
→ 2194 ↔ left right arrow
• was 2b6C
- 2B65 ⇕ UP DOWN TRIANGLE-HEADED ARROW
= w-3050
→ 2195 ⇕ up down arrow
• was 2b6D

- 2B66 ↖ NORTH WEST TRIANGLE-HEADED ARROW
= w-3037
→ 2196 ↖ north west arrow
• was 2b6E
- 2B67 ↗ NORTH EAST TRIANGLE-HEADED ARROW
= w-3038
→ 2197 ↗ north east arrow
• was 2b6F
- 2B68 ↘ SOUTH EAST TRIANGLE-HEADED ARROW
= w-3040
→ 2198 ↘ south east arrow
• was 2b71
- 2B69 ↙ SOUTH WEST TRIANGLE-HEADED ARROW
= w-3039
→ 2199 ↙ south west arrow
• was 2b70

Triangle-headed dashed arrows

- 2B6A ⇐ LEFTWARDS TRIANGLE-HEADED DASHED ARROW
= w-3051
→ 21E0 ⇐ leftwards dashed arrow
• was 2b72
- 2B6B ↑ UPWARDS TRIANGLE-HEADED DASHED ARROW
= w-3053
→ 21E1 ↑ upwards dashed arrow
• was 2b73
- 2B6C → RIGHTWARDS TRIANGLE-HEADED DASHED ARROW
= w-3052
→ 21E2 → rightwards dashed arrow
• was 2b74
- 2B6D ↓ DOWNWARDS TRIANGLE-HEADED DASHED ARROW
= w-3054
→ 21E3 ↓ downwards dashed arrow
• was 2b75
- 2B6E ↻ CLOCKWISE TRIANGLE-HEADED OPEN CIRCLE ARROW
= w-3080
→ 21BB ↻ clockwise open circle arrow
• was 2bA0
- 2B6F ↺ ANTICLOCKWISE TRIANGLE-HEADED OPEN CIRCLE ARROW
= w-3081
→ 21BA ↺ anticlockwise open circle arrow
• was 2bA1

Triangle-headed arrows to bar

- 2B70 ←̄ LEFTWARDS TRIANGLE-HEADED ARROW TO BAR
= w-3041
= left tab
→ 21E4 ←̄ leftwards arrow to bar
• was 2b86
- 2B71 ↑̄ UPWARDS TRIANGLE-HEADED ARROW TO BAR
= w-3043
= up tab
→ 2912 ↑̄ upwards arrow to bar
• was 2b88

2B72	→	RIGHTWARDS TRIANGLE-HEADED ARROW TO BAR = w-3042 = right tab → 21E5 → rightwards arrow to bar • was 2b87	2B83	⇩	DOWNWARDS TRIANGLE-HEADED ARROW LEFTWARDS OF UPWARDS TRIANGLE-HEADED ARROW = w-3069 → 21C6 ⇩ leftwards arrow over rightwards arrow • was 2b8F
2B73	↓	DOWNWARDS TRIANGLE-HEADED ARROW TO BAR = w-3044 = down tab → 2913 ↓ downwards arrow to bar • was 2b89	2B84	⇐	LEFTWARDS TRIANGLE-HEADED PAIRED ARROWS = w-3072 → 21C7 ⇐ leftwards paired arrows • was 2b92
2B74	⇐	LEFT RIGHT TRIANGLE-HEADED ARROW TO BAR	2B85	⇑	UPWARDS TRIANGLE-HEADED PAIRED ARROWS = w-3074 → 21C8 ⇑ upwards paired arrows • was 2b94
2B75	⇕	UP DOWN TRIANGLE-HEADED ARROW TO BAR	2B86	⇒	RIGHTWARDS TRIANGLE-HEADED PAIRED ARROWS = w-3073 → 21C9 ⇒ rightwards paired arrows • was 2b93
2B76	↖	NORTH WEST TRIANGLE-HEADED ARROW TO BAR = w-3045 = home • was 2b8A	2B87	⇓	DOWNWARDS TRIANGLE-HEADED PAIRED ARROWS = w-3075 → 21CA ⇓ downwards paired arrows • was 2b95, with erroneous name “downtwards”
2B77	↗	NORTH EAST TRIANGLE-HEADED ARROW TO BAR			
2B78	↘	SOUTH EAST TRIANGLE-HEADED ARROW TO BAR = w-3046 = end • was 2b8B			
2B79	↙	SOUTH WEST TRIANGLE-HEADED ARROW TO BAR			

Triangle-headed arrows with double horizontal stroke

2B7A	⇐	LEFTWARDS TRIANGLE-HEADED ARROW WITH DOUBLE HORIZONTAL STROKE
2B7B	⇑	UPWARDS TRIANGLE-HEADED ARROW WITH DOUBLE HORIZONTAL STROKE = w-3047 = page up • was 2b8C
2B7C	⇒	RIGHTWARDS TRIANGLE-HEADED ARROW WITH DOUBLE HORIZONTAL STROKE
2B7D	⇓	DOWNWARDS TRIANGLE-HEADED ARROW WITH DOUBLE HORIZONTAL STROKE = w-3048 = page down • was 2b8D

Paired triangle-headed arrows

2B7E	⇐	HORIZONTAL TAB KEY = w-3070 • was 2b90
2B7F	⇕	VERTICAL TAB KEY = w-3071 • was 2b91
2B80	⇐	LEFTWARDS TRIANGLE-HEADED ARROW OVER RIGHTWARDS TRIANGLE-HEADED ARROW = w-3068 → 21C6 ⇐ leftwards arrow over rightwards arrow • was 2b8E
2B81	⇑	UPWARDS TRIANGLE-HEADED ARROW LEFTWARDS DOWNWARDS TRIANGLE-HEADED ARROW
2B82	⇒	RIGHTWARDS TRIANGLE-HEADED ARROW OVER LEFTWARDS TRIANGLE-HEADED ARROW

Circled arrows

2B88	↶	LEFTWARDS BLACK CIRCLED WHITE ARROW = w-1219 • was 2bAB
2B89	↷	UPWARDS BLACK CIRCLED WHITE ARROW = w-1221 • was 2bAD
2B8A	↷	RIGHTWARDS BLACK CIRCLED WHITE ARROW = w-1220 → 27B2 ↷ circled heavy white rightwards arrow • was 2bAC
2B8B	↷	DOWNWARDS BLACK CIRCLED WHITE ARROW = w-1222 • was 2bAE

Curved triangle-headed arrows

2B8C	↶	ANTICLOCKWISE TRIANGLE-HEADED RIGHT U-SHAPED ARROW = w-3079 • was 2b9F
2B8D	↷	ANTICLOCKWISE TRIANGLE-HEADED BOTTOM U-SHAPED ARROW = w-3077 • was 2b9D
2B8E	↶	ANTICLOCKWISE TRIANGLE-HEADED LEFT U-SHAPED ARROW = w-3078 • was 2b9E
2B8F	↷	ANTICLOCKWISE TRIANGLE-HEADED TOP U-SHAPED ARROW = w-3076 → 21B6 ↷ anticlockwise top semicircle arrow • was 2b9C

Keyboard symbols

- 2B90 ↵ RETURN LEFT
= w-3064
→ 23CE return symbol
• was 2b97
- 2B91 ↶ RETURN RIGHT
= w-3065
• was 2b98
- 2B92 ↷ NEWLINE LEFT
= w-3066
• was 2b99
- 2B93 ↸ NEWLINE RIGHT
= w-3067
• was 2b9A

Arrows with small triangle arrowhead

- 2B94 ← LEFTWARDS ARROW WITH SMALL TRIANGLE
ARROWHEAD
= w-3153
• was 1f800
- 2B95 ↑ UPWARDS ARROW WITH SMALL TRIANGLE
ARROWHEAD
= w-3155
• was 1f802
- 2B96 → RIGHTWARDS ARROW WITH SMALL TRIANGLE
ARROWHEAD
= w-3154
• was 1f801
- 2B97 ↓ DOWNWARDS ARROW WITH SMALL TRIANGLE
ARROWHEAD
= w-3156
• was 1f803

**Arrows with medium triangle
arrowhead**

- 2B98 ← LEFTWARDS ARROW WITH MEDIUM TRIANGLE
ARROWHEAD
= w-3157
• was 1f804
- 2B99 ↑ UPWARDS ARROW WITH MEDIUM TRIANGLE
ARROWHEAD
= w-3159
• was 1f806
- 2B9A → RIGHTWARDS ARROW WITH MEDIUM
TRIANGLE ARROWHEAD
= w-3158
• was 1f805
- 2B9B ↓ DOWNWARDS ARROW WITH MEDIUM
TRIANGLE ARROWHEAD
= w-3160
• was 1f807

Arrows with large triangle arrowhead

- 2B9C ← LEFTWARDS ARROW WITH LARGE TRIANGLE
ARROWHEAD
= w-3161
• was 1f808
- 2B9D ↑ UPWARDS ARROW WITH LARGE TRIANGLE
ARROWHEAD
= w-3163
• was 1f80A
- 2B9E → RIGHTWARDS ARROW WITH LARGE TRIANGLE
ARROWHEAD
= w-3162
• was 1f809

- 2B9F ↓ DOWNWARDS ARROW WITH LARGE TRIANGLE
ARROWHEAD
= w-3164
• was 1f80B

Triangle-headed arrows with bent tips

- 2BA0 ↴ DOWNWARDS TRIANGLE-HEADED ARROW
WITH LONG TIP LEFTWARDS
= w-3056
→ 21B2 ↓ downwards arrow with tip leftwards
• was 2b76
- 2BA1 ↵ DOWNWARDS TRIANGLE-HEADED ARROW
WITH LONG TIP RIGHTWARDS
= w-3057
→ 21B3 ↘ downwards arrow with tip rightwards
• was 2b77
- 2BA2 ↶ UPWARDS TRIANGLE-HEADED ARROW WITH
LONG TIP LEFTWARDS
= w-3058
→ 21B0 ↑ upwards arrow with tip leftwards
• was 2b78
- 2BA3 ↷ UPWARDS TRIANGLE-HEADED ARROW WITH
LONG TIP RIGHTWARDS
= w-3059
→ 21B1 ↗ upwards arrow with tip rightwards
• was 2b79
- 2BA4 ↵ LEFTWARDS TRIANGLE-HEADED ARROW WITH
LONG TIP UPWARDS
= w-3060
→ 2B11 ← leftwards arrow with tip upwards
• was 2b7A
- 2BA5 ↶ RIGHTWARDS TRIANGLE-HEADED ARROW
WITH LONG TIP UPWARDS
= w-3061
→ 2B0F → rightwards arrow with tip upwards
• was 2b7B
- 2BA6 ↷ LEFTWARDS TRIANGLE-HEADED ARROW WITH
LONG TIP DOWNWARDS
= w-3062
→ 2B10 ← leftwards arrow with tip downwards
• was 2b7C
- 2BA7 ↵ RIGHTWARDS TRIANGLE-HEADED ARROW
WITH LONG TIP DOWNWARDS
= w-3063
→ 2B0E ↘ rightwards arrow with tip downwards
• was 2b7D

Black curved arrows

- 2BA8 ↶ BLACK CURVED DOWNWARDS AND
LEFTWARDS ARROW
= w-3201
• was 2b7E
- 2BA9 ↷ BLACK CURVED DOWNWARDS AND
RIGHTWARDS ARROW
= w-3202
→ 27A5 ↷ heavy black curved downwards and
rightwards arrow
• was 2b7F
- 2BAA ↶ BLACK CURVED UPWARDS AND LEFTWARDS
ARROW
= w-3203
• was 2b80

- 2BAB ↷ BLACK CURVED UPWARDS AND RIGHTWARDS ARROW
= w-3204
→ 27A6 ↷ heavy black curved upwards and rightwards arrow
• was 2b81
- 2BAC † BLACK CURVED LEFTWARDS AND UPWARDS ARROW
= w-3205
• was 2b82
- 2BAD † BLACK CURVED RIGHTWARDS AND UPWARDS ARROW
= w-3206
• was 2b83
- 2BAE † BLACK CURVED LEFTWARDS AND DOWNWARDS ARROW
= w-3207
• was 2b84
- 2BAF † BLACK CURVED RIGHTWARDS AND DOWNWARDS ARROW
= w-3208
• was 2b85

Arrows with small equilateral arrowhead

- 2BB0 ← LEFTWARDS ARROW WITH SMALL EQUILATERAL ARROWHEAD
= w-3137
• was 1f818
- 2BB1 ↑ UPWARDS ARROW WITH SMALL EQUILATERAL ARROWHEAD
= w-3139
• was 1f81A
- 2BB2 → RIGHTWARDS ARROW WITH SMALL EQUILATERAL ARROWHEAD
= w-3138
• was 1f819
- 2BB3 ↓ DOWNWARDS ARROW WITH SMALL EQUILATERAL ARROWHEAD
= w-3140
• was 1f81B

Arrows with equilateral arrowhead

- 2BB4 ← LEFTWARDS ARROW WITH EQUILATERAL ARROWHEAD
= w-3141
• was 1f81C
- 2BB5 ↑ UPWARDS ARROW WITH EQUILATERAL ARROWHEAD
= w-3143
• was 1f81E
- 2BB6 → RIGHTWARDS ARROW WITH EQUILATERAL ARROWHEAD
= w-3142
• was 1f81D
- 2BB7 ↓ DOWNWARDS ARROW WITH EQUILATERAL ARROWHEAD
= w-3144
• was 1f81F

Heavy arrows with equilateral arrowhead

- 2BB8 ← HEAVY LEFTWARDS ARROW WITH EQUILATERAL ARROWHEAD
= w-3145
• was 1f820

- 2BB9 ↑ HEAVY UPWARDS ARROW WITH EQUILATERAL ARROWHEAD
= w-3147
• was 1f822
- 2BBA → HEAVY RIGHTWARDS ARROW WITH EQUILATERAL ARROWHEAD
= w-3146
• was 1f821
- 2BBB ↓ HEAVY DOWNWARDS ARROW WITH EQUILATERAL ARROWHEAD
= w-3148
• was 1f823

Heavy arrows with large equilateral arrowhead

- 2BBC ← HEAVY LEFTWARDS ARROW WITH LARGE EQUILATERAL ARROWHEAD
= w-3149
• was 1f824
- 2BBD ↑ HEAVY UPWARDS ARROW WITH LARGE EQUILATERAL ARROWHEAD
= w-3151
• was 1f826
- 2BBE → HEAVY RIGHTWARDS ARROW WITH LARGE EQUILATERAL ARROWHEAD
= w-3150
• was 1f825
- 2BBF ↓ HEAVY DOWNWARDS ARROW WITH LARGE EQUILATERAL ARROWHEAD
= w-3152
• was 1f827

Sans-serif arrows

- 2BC0 ← LEFTWARDS SANS-SERIF ARROW
= w-3102
→ 2190 ← leftwards arrow
• was 1f80C
- 2BC1 ↑ UPWARDS SANS-SERIF ARROW
= w-3104
→ 2191 ↑ upwards arrow
• was 1f80E
- 2BC2 → RIGHTWARDS SANS-SERIF ARROW
= w-3103
→ 2192 → rightwards arrow
• was 1f80D
- 2BC3 ↓ DOWNWARDS SANS-SERIF ARROW
= w-3105
→ 2193 ↓ downwards arrow
• was 1f80F
- 2BC4 ↔ LEFT RIGHT SANS-SERIF ARROW
= w-3110
→ 2194 ↔ left right arrow
• was 1f814
- 2BC5 ⇕ UP DOWN SANS-SERIF ARROW
= w-3111
→ 2195 ⇕ up down arrow
• was 1f815
- 2BC6 ↖ NORTH WEST SANS-SERIF ARROW
= w-3106
→ 2196 ↖ north west arrow
• was 1f810

- 2BC7 ↗ NORTH EAST SANS-SERIF ARROW
= w-3107
→ 2197 ↗ north east arrow
• was 1f811
- 2BC8 ↘ SOUTH EAST SANS-SERIF ARROW
= w-3109
→ 2198 ↘ south east arrow
• was 1f813
- 2BC9 ↙ SOUTH WEST SANS-SERIF ARROW
= w-3108
→ 2199 ↙ south west arrow
• was 1f812

Triangle headed arrows with heavy shaft

Vertical alignment and thickness of the shaft fragments is compatible with heavy shaft arrows

- 2BCA ← LEFTWARDS TRIANGLE-HEADED ARROW WITH HEAVY SHAFT
= w-3171
• was 1f834
- 2BCB ▬ HEAVY ARROW SHAFT WIDTH ONE
= w-3172
• was 1f87A
- 2BCC ▬ HEAVY ARROW SHAFT WIDTH TWO THIRDS
= w-3173
• was 1f87B
- 2BCD ▬ HEAVY ARROW SHAFT WIDTH ONE HALF
= w-3174
• was 1f87C
- 2BCE · HEAVY ARROW SHAFT WIDTH ONE THIRD
= w-3175
• was 1f87D
- 2BCF → RIGHTWARDS TRIANGLE-HEADED ARROW WITH HEAVY SHAFT
= w-3176
• was 1f835
- 2BD0 ↑ UPWARDS TRIANGLE-HEADED ARROW WITH HEAVY SHAFT
- 2BD1 ↓ DOWNWARDS TRIANGLE-HEADED ARROW WITH HEAVY SHAFT

White rectangular arrows

Vertical alignment and thickness of the shaft fragments is compatible with white rectangular arrows

- 2BD2 ↑ UPWARDS WHITE RECTANGULAR ARROW
= w-1241
→ 21E7 ↑ upwards white arrow
• was 1f882
- 2BD3 ↓ DOWNWARDS WHITE RECTANGULAR ARROW
= w-1242
→ 21E9 ↓ downwards white arrow
• was 1f883
- 2BD4 ↔ LEFT RIGHT WHITE RECTANGULAR ARROW
= w-1243
→ 2B04 ↔ left right white arrow
• was 1f888
- 2BD5 ⇕ UP DOWN WHITE RECTANGULAR ARROW
= w-1244
→ 21F3 ⇕ up down white arrow
• was 1f889





- 2BD6 ↖ NORTH WEST WHITE RECTANGULAR ARROW
= w-1245
→ 2B01 ↖ north west white arrow
• was 1f884
- 2BD7 ↗ NORTH EAST WHITE RECTANGULAR ARROW
= w-1246
→ 2B00 ↗ north east white arrow
• was 1f885
- 2BD8 ↘ SOUTH EAST WHITE RECTANGULAR ARROW
= w-1248
→ 2B02 ↘ south east white arrow
• was 1f887
- 2BD9 ↙ SOUTH WEST WHITE RECTANGULAR ARROW
= w-1247
→ 2B03 ↙ south west white arrow
• was 1f886
- 2BDA ⇐ LEFTWARDS WHITE RECTANGULAR ARROW
= w-1239
→ 21E6 ⇐ leftwards white arrow
• was 1f880
- 2BDB □ WHITE RECTANGULAR ARROW SHAFT WIDTH ONE
= w-1249
• was 1f878
- 2BDC ▬ WHITE RECTANGULAR ARROW SHAFT WIDTH TWO THIRDS
= w-1250
• was 1f879
- 2BDD ⇒ RIGHTWARDS WHITE RECTANGULAR ARROW
= w-1240
→ 21E8 ⇒ rightwards white arrow
• was 1f881

Keyboard symbol






- 2BDE ⇧ UPWARDS WHITE RECTANGULAR ARROW FROM BAR
= w-3088
= caps lock
• may also be a shift lock
→ 21EA ⇧ upwards white arrow from bar
• was 2bF4
- 2BDF ⇧ UPWARDS WHITE RECTANGULAR ARROW FROM BAR WITH HORIZONTAL BAR
= w-3089
= caps lock
→ 21EC ⇧ upwards white arrow on pedestal with horizontal bar
• was 2b4D

Ribbon arrows







- 2BE0 ↙ RIBBON ARROW DOWN LEFT
= w-1195
• was 2b60
- 2BE1 ↘ RIBBON ARROW DOWN RIGHT
= w-1196
• was 2b61
- 2BE2 ↖ RIBBON ARROW UP LEFT
= w-1197
• was 2b62
- 2BE3 ↗ RIBBON ARROW UP RIGHT
= w-1198
• was 2b63

- 2BE4  RIBBON ARROW LEFT UP
= w-1199
• was 2b64
- 2BE5  RIBBON ARROW RIGHT UP
= w-1200
• was 2b65
- 2BE6  RIBBON ARROW LEFT DOWN
= w-1201
• was 2b66
- 2BE7  RIBBON ARROW RIGHT DOWN
= w-1202
• was 2b67


Notched arrows

- 2BE8  LEFTWARDS ARROW WITH NOTCHED TAIL
= w-3185
• was 2bDC
- 2BE9  UPWARDS ARROW WITH NOTCHED TAIL
= w-3187
• was 2bDE
- 2BEA  RIGHTWARDS ARROW WITH NOTCHED TAIL
= w-3186
→ 27AF  notched lower right-shadowed white rightwards arrow
• was 2bDD
- 2BEB  DOWNWARDS ARROW WITH NOTCHED TAIL
= w-3188
• was 2bDF




Cusp shapes


- 2BEC  WHITE FOUR POINTED CUSP
= w-1178
→ 2727  white four pointed star
• was 2bC5
- 2BED  ROTATED WHITE FOUR POINTED CUSP
= w-1179
→ 2311 square lozenge
• was 2bC6
- 2BEE  LIGHT FOUR POINTED BLACK CUSP
= w-2246
→ 2726  black four pointed star
• was 2bC7
- 2BEF  ROTATED LIGHT FOUR POINTED BLACK CUSP
= w-2247
• was 2bC8


Miscellaneous arrow symbol


- 2BF0  FOUR CORNER ARROWS CIRCLING ANTICLOCKWISE
= w-0096
= loop
• was 2bA2


Centred geometric shapes


- 2BF1  BLACK SQUARE CENTRED
= w-2190
• was 2bB0, with name “centered”
- 2BF2  BLACK DIAMOND CENTRED
= w-2191
• was 2bB1, with name “centered”
- 2BF3  TURNED BLACK PENTAGON
= w-2193
• was 2bB2


- 2BF4  HORIZONTAL BLACK OCTAGON
= w-2196
= black octagon 1
• was 2bB3

- 2BF5  BLACK OCTAGON
= w-2197
= black octagon 2
• was 2bB4



- 2BF6  BLACK MEDIUM UP-POINTING TRIANGLE CENTRED
= w-3129
• was 2bB5, with name “centered”

- 2BF7  BLACK MEDIUM RIGHT-POINTING TRIANGLE CENTRED
= w-3132
• was 2bB8, with name “centered”







- 2BF8  BLACK MEDIUM DOWN-POINTING TRIANGLE CENTRED
= w-3130
• was 2bB6, with name “centered”

- 2BF9  BLACK MEDIUM LEFT-POINTING TRIANGLE CENTRED
= w-3131
• was 2bB7, with name “centered”


Half circles

- 2BFA  BOTTOM HALF BLACK CIRCLE
= w-2189
• was 2bBA
- 2BFB  TOP HALF BLACK CIRCLE
= w-2188
• was 2bB9

Target symbols

- 2BFC  ROUND TARGET
= w-1165
→ 25CE  bullseye
→ 29BE  circled white bullet
→ 2B57  heavy circle with circle inside
• was 2bBB
- 2BFD  SQUARE TARGET
= w-2170
• was 2bBC
- 2BFE  DIAMOND TARGET
= w-2179
• was 2bBD

Position indicator

- 2BFF  SQUARE POSITION INDICATOR
= w-1176
= register square
→ 2316 position indicator
• was 2bC9

	A72	A73	A74	A75	A76	A77	A78	A79	A7A	A7B	A7C	A7D	A7E	A7F
0														
1														
2														
3														
4								ç A794						
5								ĥ A795						
6								Ĭ A796					İ A7F6	
7								ĵ A797					ı A7F7	
8								ƒ A798						
9								ƒ A799						
A								ŀ A79A						
B								ɥ A79B	Ʒ A7AB					
C								Ƨ A79C	Ƨ A7AC					
D								Ƨ A79D						
E								Ƨ A79E						
F							• A78F	Ƨ A79F						

Transliteration letter

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

Additions for Lithuanian dialectology

- A794 ċ LATIN SMALL LETTER C WITH PALATAL HOOK
 A795 ħ LATIN SMALL LETTER H WITH PALATAL HOOK
 → A727 ħ latin small letter heng

Additions for old Vietnamese

- A796 Ꞥ LATIN CAPITAL LETTER B WITH FLOURISH
 A797 ꞥ LATIN SMALL LETTER B WITH FLOURISH

Archaic letters for Ewe

- A798 Ꝥ LATIN CAPITAL LETTER F WITH STROKE
 A799 ꝥ LATIN SMALL LETTER F WITH STROKE
 • old Ewe orthography
 • also used in German dialectology

Archaic letters for Volapük








- A79A ꝰ LATIN CAPITAL LETTER VOLAPUK AE
 A79B ꝱ LATIN SMALL LETTER VOLAPUK AE
 A79C ꝲ LATIN CAPITAL LETTER VOLAPUK OE
 A79D ꝳ LATIN SMALL LETTER VOLAPUK OE
 A79E ꝴ LATIN CAPITAL LETTER VOLAPUK UE
 A79F ꝵ LATIN SMALL LETTER VOLAPUK UE

Additions for phonetic orthography










- A7AB ꝶ LATIN CAPITAL LETTER REVERSED OPEN E
 → 025C ꝶ latin small letter reversed open e
 A7AC ꝷ LATIN CAPITAL LETTER SCRIPT G
 → 0261 ꝷ latin small letter script g










Additions for Celtic epigraphy

- A7F6 ꝸ LATIN CAPITAL LETTER SIDEWAYS I
 A7F7 Ꝺ LATIN SMALL LETTER SIDEWAYS I


	FE2
0	
1	
2	
3	
4	
5	
6	
7	 FE27
8	 FE28
9	 FE29
A	 FE2A
B	 FE2B
C	 FE2C
D	 FE2D
E	
F	













































































































































Combining half marks below

FE27		COMBINING LIGATURE LEFT HALF BELOW
FE28		COMBINING LIGATURE RIGHT HALF BELOW
		→ 035C  combining double breve below
FE29		COMBINING DOUBLE TILDE LEFT HALF BELOW
FE2A		COMBINING DOUBLE TILDE RIGHT HALF BELOW
FE2B		COMBINING MACRON LEFT HALF BELOW
FE2C		COMBINING MACRON RIGHT HALF BELOW
FE2D		COMBINING CONJOINING MACRON BELOW
		• Used with combining left and right half ligature, double tilde, and macron below to extend below more than two characters.

	1F30	1F31	1F32	1F33	1F34	1F35	1F36	1F37	1F38	1F39	1F3A	1F3B	1F3C	1F3D	1F3E	1F3F
0																
1			 1F321													
2			 1F322													
3																
4										 1F394						
5										 1F395						
6			 1F336							 1F396						
7										 1F397						
8										 1F398						
9																
A																
B																
C																
D									 1F37D							
E																
F																

1F40 1F41 1F42 1F43 1F44 1F45 1F46 1F47 1F48 1F49 1F4A 1F4B 1F4C 1F4D 1F4E 1F4F

0																	
1				 1F41													
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
A																	
B																	
C																	
D																	
E																	
F																	

	1F50	1F51	1F52	1F53	1F54	1F55	1F56	1F57	1F58	1F59	1F5A	1F5B	1F5C	1F5D	1F5E	1F5F
0																
								1F570	1F580	1F590	1F5A0	1F5B0	1F5C0	1F5D0	1F5E0	
1																
								1F571	1F581	1F591	1F5A1	1F5B1	1F5C1	1F5D1	1F5E1	
2																
								1F572	1F582	1F592	1F5A2	1F5B2	1F5C2	1F5D2	1F5E2	
3																
								1F573	1F583	1F593	1F5A3	1F5B3	1F5C3	1F5D3	1F5E3	
4																
				1F544				1F574	1F584	1F594	1F5A4	1F5B4	1F5C4	1F5D4	1F5E4	
5																
				1F545				1F575	1F585	1F595	1F5A5	1F5B5	1F5C5	1F5D5	1F5E5	
6																
				1F546				1F586	1F596			1F5B6	1F5C6	1F5D6	1F5E6	
7																
				1F547				1F587	1F597			1F5B7	1F5C7	1F5D7	1F5E7	
8																
				1F548			1F568	1F588	1F598			1F5B8	1F5C8	1F5D8	1F5E8	
9																
				1F549			1F569	1F589	1F599			1F5B9	1F5C9	1F5D9	1F5E9	
A																
							1F56A	1F58A	1F59A			1F5BA	1F5CA	1F5DA	1F5EA	1F5FA
B																
							1F56B	1F58B	1F59B			1F5BB	1F5CB	1F5DB		
C																
							1F56C	1F58C	1F59C			1F5BC	1F5CC	1F5DC		
D																
							1F56D	1F58D	1F59D			1F5BD	1F5CD	1F5DD		
E																
			1F53E				1F56E	1F58E	1F59E			1F5BE	1F5CE	1F5DE		
F																
			1F53F				1F56F		1F59F			1F5BF	1F5CF	1F5DF		

Weather symbols

- 1F321 🌡️ THERMOMETER
= temperature, warm
= w-0225
• was 1f32D
- 1F322 ⬇️ BLACK DROPLET
= droplet
= w-1083
→ 1F4A7 ⚪ droplet
• was 1f32D

Plant symbols

- 1F336 🌶️ HOT PEPPER
= hot
= w-0044

Food symbol

- 1F37D 🍴 FORK AND KNIFE WITH BLACK PLATE
= dining
= w-0228
→ 1F374 🍴 fork and knife
• was 1f37E

Celebration symbols

- 1F394 ❤️ HEART WITH TIP ON THE LEFT
= favorite
= w-0089
→ 2665 🖤 black heart suit

- 1F395 🌸 BOUQUET OF FLOWERS
= occasion
= w-0090
→ 1F490 🌼 bouquet

- 1F396 🎵 BEAMED ASCENDING MUSICAL NOTES
= music, musical background
= musical performance
= w-0175
• always ascending, unlike 266C 🎵
→ 266C 🎵 beamed sixteenth notes
• was 1f39D, with name “musical performance”

- 1F397 🎵 BEAMED DESCENDING MUSICAL NOTES
• always descending, unlike 266C 🎵
→ 266C 🎵 beamed sixteenth notes

- 1F398 🎗️ REMINDER RIBBON
= w-0045
• was 1f3F5

Facial parts symbols

- 1F441 👁️ EYE
= sight
= w-0078

Shadowed geometric shapes

- 1F53E 🕒 LOWER RIGHT SHADOWED WHITE CIRCLE
= w-1109
= circle shadow down
→ 274D 🕒 shadowed white circle
• was 2bC3
- 1F53F 🕒 UPPER RIGHT SHADOWED WHITE CIRCLE
= w-1166
→ 274D 🕒 shadowed white circle
• was 2bC4

Religious symbols

- 1F544 ⦿ NOTCHED RIGHT SEMICIRCLE WITH THREE DOTS
• Orthodox typikon for lower rank feast
- 1F545 📖 SYMBOL FOR CHAPTER MARKS
• Orthodox typikon for difficult sections
- 1F546 ⚪ WHITE LATIN CROSS
= cross outline
= w-1085
→ 271E ⚪ shadowed white latin cross
- 1F547 ⚪ HEAVY LATIN CROSS
= w-2134
- 1F548 ⚪ CELTIC CROSS
= w-1087
- 1F549 🌀 OM SYMBOL
= w-1092
• devanagari font type independent
→ 0950 ॐ devanagari om

Communication symbols

- 1F568 🔊 RIGHT SPEAKER
= sound left
= w-0087
• was 1f57C

- 1F569 🔊 RIGHT SPEAKER WITH ONE SOUND WAVE

- 1F56A 🔊 RIGHT SPEAKER WITH THREE SOUND WAVES

Miscellaneous symbols

- 1F56B 🔧 HAMMER AND SPANNER
= tools, repair facility
= w-0064
→ 2692 🔧 hammer and pick
• was 1f3F6, with name “crossed tools”

- 1F56C 🌸 ROSETTE
= w-1123
→ 2740 🌸 white florette
• was 1f378

- 1F56D 🌸 BLACK ROSETTE
= w-1124
→ 2741 🌸 eight petalled outlined black florette
• was 1f379


- 1F56E 🚩 WAVING WHITE FLAG
= flag
= w-1079
→ 2690 🚩 white flag
• was 1f36E

- 1F56F 🚩 PENNANT
= w-1080
→ 1F6A9 🚩 triangular flag on post
• was 1f36F


- 1F570 🔔 RINGING BELL
= w-1037
→ 1F514 🔔 bell
• was 1f36B


- 1F571 🕯️ CANDLE
= w-1039
• was 1f36C

- 1F572 ☠️ BLACK SKULL AND CROSSBONES
= skull and crossbones
= w-1078
→ 2620 ☠️ skull and crossbones
• was 1f36D



1F573  PORTABLE HOLE
 = w-0212
 = hole
 • was 2bCD, with name “oval shape with shadow”

Animal symbols

1F574  SPIDER
 = w-0033
 • was 1f370



1F575  SPIDER WEB
 = w-0034
 • was 1f371




Communication symbols


1F580  LEFT HAND TELEPHONE RECEIVER
 = phone
 = w-0197
 → 1F4DE  telephone receiver
 • was 1f57D



1F581  RIGHT HAND TELEPHONE RECEIVER
 = telephone handset
 = w-2040
 • was 1f589



1F582  WHITE TOUCHTONE TELEPHONE
 = telephone
 = w-2039
 → 260F  white telephone
 • was 1f588


1F583  BLACK TOUCHTONE TELEPHONE
 = telephone solid
 = w-1040
 → 260E  black telephone
 • was 1f581



1F584  BACK OF ENVELOPE
 = w-1042
 → 2709  envelope
 • 2709  shows a seal
 • was 1f583



1F585  STAMPED ENVELOPE
 = mail
 = w-0155
 = w-1043
 • was 1f584


1F586  BLACK ENVELOPE WITH WHITE LIGHTNING
 = e-mail
 = w-0153
 → 1F4E7  e-mail symbol
 • was 1f585



1F587  FLYING ENVELOPE
 = send message
 = w-0154
 → 1F4E9  envelope with downwards arrow above
 • was 1f586


1F588  PEN OVER STAMPED ENVELOPE
 = write
 = w-0156
 • was 1f587


1F589  LINKED PAPERCLIPS
 = links
 = w-0039
 → 1F4CE  paperclip
 • was 1f5D7

1F58A  LOWER LEFT PENCIL
 = pencil
 = w-1033
 → 270E  lower right pencil
 • was 1f5D2



1F58B  LOWER LEFT BALLPOINT PEN
 = ballpoint pen
 = w-2033
 • was 1f5D3



1F58C  LOWER LEFT FOUNTAIN PEN
 = fountain pen
 = w-2034
 → 2711  white nib
 • was 1f5D4



1F58D  LOWER LEFT PAINTBRUSH
 = brush
 = w-2035
 • was 1f5D5


1F58E  LOWER LEFT CRAYON
 = crayon
 = w-2036
 • was 1f5D6



Hand symbols



1F590  LEFT WRITING HAND
 = w-1064
 → 270D  writing hand
 • was 1f58A


1F591  TURNED OK HAND SIGN
 = w-1066
 → 1F44C  ok hand sign
 • was 1f58B


1F592  RAISED HAND WITH FINGERS SPLAYED
 = halt
 = w-1073
 → 270B  raised hand
 • was 1f58D



1F593  REVERSED RAISED HAND WITH FINGERS SPLAYED
 = w-2078
 • was 1f59C
















































1F594  REVERSED THUMBS UP SIGN
 = w-2060
 → 1F44D  thumbs up sign
 • was 1f58E





1F595  REVERSED THUMBS DOWN SIGN
 = w-2061
 → 1F44E  thumbs down sign
 • was 1f58F

1F596  REVERSED VICTORY HAND




1F597  REVERSED HAND WITH MIDDLE FINGER EXTENDED

1F598  RAISED HAND WITH PART BETWEEN MIDDLE AND RING FINGERS
 → 05E9  hebrew letter shin













- 1F599  WHITE DOWN POINTING LEFT HAND INDEX
= w-1072
→ 261F  white down pointing index
→ 1F447  white down pointing backhand index
• was 1f58C
- 1F59A  SIDEWAYS WHITE LEFT POINTING INDEX
= w-2062
→ 261C  white left pointing index
• was 1f590
- 1F59B  SIDEWAYS WHITE RIGHT POINTING INDEX
= w-2063
→ 261E  white right pointing index
• was 1f591
- 1F59C  SIDEWAYS BLACK LEFT POINTING INDEX
= w-2064
• was 1f592
- 1F59D  SIDEWAYS BLACK RIGHT POINTING INDEX
= w-2065
• was 1f593
- 1F59E  BLACK LEFT POINTING BACKHAND INDEX
= w-2068
→ 1F448  white left pointing backhand index
• was 1f594
- 1F59F  BLACK RIGHT POINTING BACKHAND INDEX
= w-2069
→ 1F449  white right pointing backhand index
• was 1f595
- 1F5A0  SIDEWAYS WHITE UP POINTING INDEX
= w-2070
→ 261D  white up pointing index
• was 1f596
- 1F5A1  SIDEWAYS WHITE DOWN POINTING INDEX
= w-2071
→ 261F  white down pointing index
• was 1f597
- 1F5A2  SIDEWAYS BLACK UP POINTING INDEX
= w-2072
• was 1f598
- 1F5A3  SIDEWAYS BLACK DOWN POINTING INDEX
= w-2073
• was 1f599
- 1F5A4  BLACK UP POINTING BACKHAND INDEX
= w-2076
→ 1F446  white up pointing backhand index
• was 1f59A
- 1F5A5  BLACK DOWN POINTING BACKHAND INDEX
= w-2077
→ 1F447  white down pointing backhand index
• was 1f59B
- Computer symbols**
- 1F5B0  DESKTOP COMPUTER
= tower computer
= w-0192
• was 1f5AC
- 1F5B1  KEYBOARD AND MOUSE
= w-0193
→ 2328 keyboard
• was 1f5AD
- 1F5B2  THREE NETWORKED COMPUTERS
= computer network
= w-0194
• was 1f5AE
- 1F5B3  PRINTER
= w-0202
→ 1F4E0  fax machine
• was 1f5AF
- 1F5B4  POCKET CALCULATOR
= calculator
= w-0203
• was 1f5B0
- 1F5B5  BLACK HARD SHELL FLOPPY DISK
= disk
= w-0205
→ 1F4BE  floppy disk
• was 1f5B1
- 1F5B6  WHITE HARD SHELL FLOPPY DISK
= w-1060
→ 1F4BE  floppy disk
• was 1f5B2
- 1F5B7  SOFT SHELL FLOPPY DISK
= w-1061
→ 1F4BE  floppy disk
• was 1f5B3
- 1F5B8  TAPE CARTRIDGE
= w-2057
• was 1f5B4
- 1F5B9  WIRED KEYBOARD
= keyboard
= w-1055
→ 2328 keyboard
• was 1f5B5
- 1F5BA  ONE BUTTON MOUSE
= w-2058
• was 1f5B6
- 1F5BB  TWO BUTTON MOUSE
= w-1056
• was 1f5B7
- 1F5BC  THREE BUTTON MOUSE
= w-2059
• was 1f5B8
- 1F5BD  TRACKBALL
= w-1057
= ballpoint
• was 1f5B9
- 1F5BE  OLD PERSONAL COMPUTER
= personal computer
= w-1058
→ 1F4BB  personal computer
• was 1f5BA
- 1F5BF  HARD DISK
= w-1059
• was 1f5BB
- 1F5C0  SCREEN
= monitor
= w-2053
→ 20E2  combining enclosing screen
• was 1f5BC
- 1F5C1  PRINTER ICON
= w-2054
→ 1F5AF printer
• was 1f5BD




















- 1F5C2  FAX ICON
= w-2055
→ 1F4E0  fax machine
• was 1f5BE
- 1F5C3  OPTICAL DISC ICON
= compact disc
= w-2056
→ 1F4BF  optical disc
• was 1f5BF

Office symbols


- 1F5C4  DOCUMENT WITH TEXT
= w-0157
• was 1f5C0
- 1F5C5  DOCUMENT WITH TEXT AND PICTURE
= w-0158
• was 1f5C1
- 1F5C6  DOCUMENT WITH PICTURE
= graphic document
= w-0159
• was 1f5C2

User interface symbols











- 1F5C7  FOLDER
= directory
= w-1048
→ 1F4C1  file folder
• was 1f5DA
- 1F5C8  BLACK FOLDER
= folder
= w-0204
• was 1f5DB
- 1F5C9  OPEN FOLDER
= w-1049
→ 1F4C2  open file folder
• was 1f5DC
- 1F5CA  FILE CABINET
= w-1053
• was 1f5DD
- 1F5CB  EMPTY NOTE
= file1
= w-2041
• was 1f5DE
- 1F5CC  EMPTY NOTE PAGE
= file
= w-2042
• was 1f5DF
- 1F5CD  EMPTY NOTE PAD
= file3
= w-2043
• was 1f5E0
- 1F5CE  NOTE
= file text1
= w-2044
• was 1f5E1
- 1F5CF  NOTE PAGE
= file text
= w-2045
• was 1f5E2
- 1F5D0  NOTE PAD
= file text3
= w-2046
• was 1f5E3

- 1F5D1  EMPTY DOCUMENT
= tall file1
= w-2047
• was 1f5E4
- 1F5D2  EMPTY PAGE
= tall file
= w-2048
• was 1f5E5
- 1F5D3  EMPTY PAGES
= tall file3
= w-2049
• was 1f5E6
- 1F5D4  DOCUMENT
= tall file with text 1
= w-1050
→ 1F4C4  page facing up
• was 1f5E7
- 1F5D5  PAGE
= tall file with text
= w-1051
→ 1F4C3  page with curl
• was 1f5E8
- 1F5D6  PAGES
= tall file with text 3
= w-1052
• was 1f5E9
- 1F5D7  WASTEBASKET
= trashcan
= w-2051
• was 1f5EA
- 1F5D8  DESKTOP WINDOW
= w-2052
• was 1f5EB
- 1F5D9  MINIMIZE
= w-0048
• was 1f5EC
- 1F5DA  MAXIMIZE
= w-0049
• was 1f5ED
- 1F5DB  OVERLAP
= tile windows
= w-0050
• was 1f5EE
- 1F5DC  CLOCKWISE RIGHT AND LEFT SEMICIRCLE ARROWS
= refresh
= w-0113
→ 1F503  clockwise downwards and upwards open circle arrows
• was 1f5EF
- 1F5DD  CANCELLATION X
= close
= w-0114
→ 274C  cross mark
• was 1f5D9, with name “cancellation-x”
- 1F5DE  INCREASE FONT SIZE SYMBOL
= w-0062
• was 1f5EF, with name “font size sign”
- 1F5DF  DECREASE FONT SIZE SYMBOL


Keyboard symbol

















































- 1F5E0  UP ARROWHEAD IN A RECTANGLE BOX
 = w-1121
 = escape
 → 2353 apl functional symbol quad up caret
 • possibly should remain in BMP and could be swapped for something else
 • was 2bE9

Ballot symbols









- 1F5E1 × BALLOT SCRIPT X
 = x mark
 = w-2079
 • was 2bEA
- 1F5E2  BALLOT BOX WITH SCRIPT X
 = box x mark
 = w-2081
 • was 2bEB
- 1F5E3 × BALLOT BOLD SCRIPT X
 = x mark bold
 → 2717  ballot x
 = w-1251
 • was 2bEC
- 1F5E4  BALLOT BOX WITH BOLD SCRIPT X
 = box x mark bold
 = w-1253
 • was 2bED
- 1F5E5  BALLOT BOX WITH LIGHT X
 = box x
 = w-2083
 → 2612  ballot box with x
 • was 2bEE
- 1F5E6  CIRCLED X
 = w-2085
 → 2297  circled times
 • was 2bEF
- 1F5E7  CIRCLED BOLD X
 = circled x bold
 = w-2086
 • was 2bF0
- 1F5E8  CIRCLED REVERSE LIGHT SOLIDUS
 = prohibit
 = w-2087
 • was 2bF1
- 1F5E9 ✓ LIGHT CHECK MARK
 = check
 = w-2080
 • was 2bF2
- 1F5EA  BALLOT BOX WITH BOLD CHECK
 = box mark bold
 = w-1254
 • was 2bF3

Map symbol









- 1F5FA  WORLD MAP
 = w-0251

	1F65	1F66	1F67
0	 1F650	 1F660	 1F670
1	 1F651	 1F661	 1F671
2	 1F652	 1F662	 1F672
3	 1F653	 1F663	 1F673
4	 1F654	 1F664	 1F674
5	 1F655	 1F665	 1F675
6	 1F656	 1F666	 1F676
7	 1F657	 1F667	 1F677
8	 1F658	 1F668	 1F678
9	 1F659	 1F669	 1F679
A	 1F65A	 1F66A	 1F67A
B	 1F65B	 1F66B	 1F67B
C	 1F65C	 1F66C	 1F67C
D	 1F65D	 1F66D	 1F67D
E	 1F65E	 1F66E	 1F67E
F	 1F65F	 1F66F	 1F67F









Leaf ornaments

1F650		NORTH WEST POINTING LEAF = w-1209
1F651		SOUTH WEST POINTING LEAF = w-1210
1F652		NORTH EAST POINTING LEAF = w-1211
1F653		SOUTH EAST POINTING LEAF = w-1212
1F654		TURNED NORTH WEST POINTING LEAF = w-1206
1F655		TURNED SOUTH WEST POINTING LEAF = w-1205
1F656		TURNED NORTH EAST POINTING LEAF = w-1208
1F657		TURNED SOUTH EAST POINTING LEAF = w-1207





Vine leaf ornaments

1F658		NORTH WEST POINTING VINE LEAF = w-2102
1F659		SOUTH WEST POINTING VINE LEAF = w-2103
1F65A		NORTH EAST POINTING VINE LEAF = w-2101
1F65B		SOUTH EAST POINTING VINE LEAF = w-2104
1F65C		HEAVY NORTH WEST POINTING VINE LEAF = w-1155
1F65D		HEAVY SOUTH WEST POINTING VINE LEAF = w-1156
1F65E		HEAVY NORTH EAST POINTING VINE LEAF = w-1154
1F65F		HEAVY SOUTH EAST POINTING VINE LEAF = w-1157






Pointing bud ornaments

1F660		NORTH WEST POINTING BUD = w-1151
1F661		SOUTH WEST POINTING BUD = w-1152
1F662		NORTH EAST POINTING BUD = w-1150
1F663		SOUTH EAST POINTING BUD = w-1153
1F664		HEAVY NORTH WEST POINTING BUD = w-2098
1F665		HEAVY SOUTH WEST POINTING BUD = w-2099
1F666		HEAVY NORTH EAST POINTING BUD = w-2097
1F667		HEAVY SOUTH EAST POINTING BUD = w-2100







Quilt square ornaments

1F668		HOLLOW QUILT SQUARE ORNAMENT = w-2147
1F669		HOLLOW QUILT SQUARE ORNAMENT IN BLACK SQUARE = w-2148
1F66A		SOLID QUILT SQUARE ORNAMENT = w-1203 = fourfold knot ornament
1F66B		SOLID QUILT SQUARE ORNAMENT IN BLACK SQUARE = w-1204 = inverse fourfold knot ornament







Rocket ornaments

1F66C		LEFTWARDS ROCKET = w-0247 → 1F680  rocket
1F66D		UPWARDS ROCKET = w-0249 • was 1f66E
1F66E		RIGHTWARDS ROCKET = w-0248 • was 1f66D
1F66F		DOWNWARDS ROCKET = w-0250




Et ligature and ampersand ornaments

1F670		LIGATURE ET ORNAMENT = w-1106 = italic ampersand lower case
1F671		BOLD LIGATURE ET ORNAMENT = w-2089
1F672		SANS-SERIF AMPERSAND ORNAMENT = w-2091
1F673		BOLD SANS-SERIF AMPERSAND ORNAMENT = w-2092
1F674		BOLD AMPERSAND ORNAMENT = w-2090
1F675		SWASH AMPERSAND ORNAMENT = w-1107 = italic ampersand



Quotation mark ornaments



1F676		SANS-SERIF HEAVY DOUBLE TURNED COMMA QUOTATION MARK ORNAMENT = w-1125 → 275D  heavy double turned comma quotation mark ornament
1F677		SANS-SERIF HEAVY DOUBLE COMMA QUOTATION MARK ORNAMENT = w-1126 → 275E  heavy double comma quotation mark ornament
1F678		SANS-SERIF HEAVY LOW DOUBLE COMMA QUOTATION MARK ORNAMENT → 2760  heavy double low comma quotation mark ornament

Interrobang ornaments

1F679		BOLD INTERROBANG = w-2094 • was 1f678
1F67A		SANS-SERIF INTERROBANG = w-2095 • was 1f679
1F67B		BOLD SANS-SERIF INTERROBANG = w-2096 • was 1f67A

































































































































Heavy solidus ornaments

1F67C		VERY HEAVY SOLIDUS = w-0047 • was 2bBE
1F67D		VERY HEAVY REVERSE SOLIDUS = w-0092 • was 2bBF

	1F68	1F69	1F6A	1F6B	1F6C	1F6D	1F6E	1F6F
0								
1								
2								
3								
4								
5								
6					 1F6C6			
7					 1F6C7			
8								
9								
A								
B								
C								
D								
E								
F								

Letterlike symbols

- 1F6C6 ⓘ CIRCLED INFORMATION SOURCE
= information
= w-0105
• was 1f6E6
- 1F6C7 ⚡ UNCERTAINTY SIGN
= w-1180
= query
→ 2370 apl functional symbol quad question
→ FFFD ⚡ replacement character
• was 2bCB

	1F78	1F79	1F7A	1F7B	1F7C	1F7D	1F7E	1F7F
0	 1F780	 1F790	 1F7A0	 1F7B0	 1F7C0	 1F7D0		
1	 1F781	 1F791	 1F7A1	 1F7B1	 1F7C1	 1F7D1		
2	 1F782	 1F792	 1F7A2	 1F7B2	 1F7C2			
3	 1F783	 1F793	 1F7A3	 1F7B3	 1F7C3			
4	 1F784	 1F794	 1F7A4	 1F7B4	 1F7C4			
5	 1F785	 1F795	 1F7A5	 1F7B5	 1F7C5			
6	 1F786	 1F796	 1F7A6	 1F7B6	 1F7C6			
7	 1F787	 1F797	 1F7A7	 1F7B7	 1F7C7			
8	 1F788	 1F798	 1F7A8	 1F7B8	 1F7C8			
9	 1F789	 1F799	 1F7A9	 1F7B9	 1F7C9			
A	 1F78A	 1F79A	 1F7AA	 1F7BA	 1F7CA			
B	 1F78B	 1F79B	 1F7AB	 1F7BB	 1F7CB			
C	 1F78C	 1F79C	 1F7AC	 1F7BC	 1F7CC			
D	 1F78D	 1F79D	 1F7AD	 1F7BD	 1F7CD			
E	 1F78E	 1F79E	 1F7AE	 1F7BE	 1F7CE			
F	 1F78F	 1F79F	 1F7AF	 1F7BF	 1F7CF			

These geometric shapes are originated from the Webdings and Wingdings collections.

Isosceles right triangles

- 1F780 ◀ BLACK LEFT-POINTING ISOSCELES RIGHT TRIANGLE
= w-3124
- 1F781 ▲ BLACK UP-POINTING ISOSCELES RIGHT TRIANGLE
= w-3126
• was 1f782
- 1F782 ▶ BLACK RIGHT-POINTING ISOSCELES RIGHT TRIANGLE
= w-3125
• was 1f781
- 1F783 ▼ BLACK DOWN-POINTING ISOSCELES RIGHT TRIANGLE
= w-3128

Black circle

- 1F784 • BLACK SLIGHTLY SMALL CIRCLE
= black circle 3
= w-2150
→ 22C5 · dot operator
→ 2219 • bullet operator
→ 2022 • bullet
→ 2981 • z notation spot
→ 26AB ● medium black circle
→ 25CF ● black circle
• was 1f786

White circles

Adjective refers to the thickness of the ring.

- 1F785 ○ MEDIUM BOLD WHITE CIRCLE
= ring 3
= w-2154
→ 26AA ○ medium white circle
→ 25CB ○ white circle
→ 2B58 ○ heavy circle
• was 1f78D
- 1F786 ○ BOLD WHITE CIRCLE
= ring 4
= w-1162
= very heavy circle
• was 1f78E
- 1F787 ○ HEAVY WHITE CIRCLE
= ring 5
= w-2155
• was 1f78F
- 1F788 ○ VERY HEAVY WHITE CIRCLE
= ring 6
= w-1163
• was 1f790
- 1F789 ○ EXTREMELY HEAVY WHITE CIRCLE
= ring 7
= w-2156
• was 1f791

White circles containing another black circle

- 1F78A ⊙ WHITE CIRCLE CONTAINING BLACK SMALL CIRCLE
= ring button 2
= w-1164
→ 2299 ⊙ circled dot operator
→ 29BF ⊙ circled bullet
• was 1f793

Black squares

- 1F78B · BLACK TINY SQUARE
= black square 1
= w-2159
→ 2B1D · black very small square
→ 25AA ■ black small square
→ 25FE ■ black medium small square
→ 25FC ■ black medium square
→ 25A0 ■ black square
• was 1f795
- 1F78C ▪ BLACK SLIGHTLY SMALL SQUARE
= black square 3
= w-2160
• was 1f797

White squares

- 1F78D □ LIGHT WHITE SQUARE
= box 2
= w-1168
→ 25A1 □ white square
• was 1f79D
- 1F78E □ MEDIUM WHITE SQUARE
= box 3
= w-1111
• was 1f79E
- 1F78F □ BOLD WHITE SQUARE
= box 4
= w-1112
= heavy white square
• was 1f79F
- 1F790 □ HEAVY WHITE SQUARE
= box 5
= w-2164
• was 1f7A0
- 1F791 □ VERY HEAVY WHITE SQUARE
= box 6
= w-2165
• was 1f7A1
- 1F792 □ EXTREMELY HEAVY WHITE SQUARE
= box 7
= w-2166
• was 1f7A2

White squares containing another black square

- 1F793 ◻ WHITE SQUARE CONTAINING BLACK VERY SMALL SQUARE
= box button 1
= w-2167
→ 25A3 ◻ white square containing black small square
• was 1f7A3

- 1F794 ◻ WHITE SQUARE CONTAINING BLACK MEDIUM SQUARE
 = box button 3
 = w-2169
 • was 1f7A5

Black diamonds

- 1F795 · BLACK TINY DIAMOND
 = black diamond 1
 = w-2171
 → 2B29 ◆ black small diamond
 → 2B25 ◆ black medium diamond
 → 25C6 ◆ black diamond
 • was 1f7A6
- 1F796 · BLACK VERY SMALL DIAMOND
 = black diamond 2
 = w-2172
 • was 1f7A7
- 1F797 ◆ BLACK MEDIUM SMALL DIAMOND
 = black diamond 4
 = w-1119
 • was 1f7A9

White diamonds containing another black diamond

- 1F798 ◇ WHITE DIAMOND CONTAINING BLACK VERY SMALL DIAMOND
 = diamond button 1
 = w-2176
 → 25C8 ◇ white diamond containing black small diamond
 • was 1f7AD
- 1F799 ◇ WHITE DIAMOND CONTAINING BLACK MEDIUM DIAMOND
 = diamond button 3
 = w-2178
 • was 1f7AF

Lozenges

- 1F79A · BLACK TINY LOZENGE
 = black lozenge 1
 = w-2180
 → 2B2A · black small lozenge
 → 2B27 ◆ black medium lozenge
 → 29EB ◆ black lozenge
 → 25CA ◇ lozenge
 • was 1f7B0
- 1F79B · BLACK VERY SMALL LOZENGE
 = black lozenge 2
 = w-2181
 • was 1f7B1
- 1F79C ◆ BLACK MEDIUM SMALL LOZENGE
 = black lozenge 4
 = w-1115
 • was 1f7B3

White lozenge containing another black lozenge

- 1F79D ◇ WHITE LOZENGE CONTAINING BLACK SMALL LOZENGE
 = lozenge button
 = w-2185
 • was 1f7B7

Greek crosses

- 1F79E + THIN GREEK CROSS
 = cross 1
 = w-2198
 • was 1f7B8
- 1F79F + LIGHT GREEK CROSS
 = cross 2
 = w-2199
 • was 1f7B9
- 1F7A0 + MEDIUM GREEK CROSS
 = cross 3
 = w-2200
 • was 1f7BA
- 1F7A1 + BOLD GREEK CROSS
 = cross 4
 = w-2201
 • was 1f7BB
- 1F7A2 + VERY BOLD GREEK CROSS
 = cross 5
 = w-2202
 • was 1f7BC
- 1F7A3 + VERY HEAVY GREEK CROSS
 = cross 6
 = w-2203
 • was 1f7BD
- 1F7A4 + EXTREMELY HEAVY GREEK CROSS
 = cross 7
 = w-2204
 • was 1f7BE

Saltires

- 1F7A5 × THIN SALTIRE
 = x 1
 = w-2205
 • was 1f7C0
- 1F7A6 × LIGHT SALTIRE
 = x 2
 = w-2206
 • was 1f7C1
- 1F7A7 × MEDIUM SALTIRE
 = x 3
 = w-2207
 • was 1f7C2
- 1F7A8 × BOLD SALTIRE
 = x 4
 = w-2208
 • was 1f7C3
- 1F7A9 × HEAVY SALTIRE
 = x 5
 = w-2209
 • was 1f7C4
- 1F7AA × VERY HEAVY SALTIRE
 = x 6
 = w-2210
 • was 1f7C5
- 1F7AB × EXTREMELY HEAVY SALTIRE
 = x 7
 = w-2211
 • was 1f7C6

Five spoked asterisks

- 1F7AC ☆ LIGHT FIVE SPOKED ASTERISK
 = w-2212
 • was 1f7C7

- 1F7AD ✳ MEDIUM FIVE SPOKED ASTERISK
= w-2213
• was 1f7C8
- 1F7AE ✳ BOLD FIVE SPOKED ASTERISK
= w-2214
• was 1f7C9
- 1F7AF ✳ HEAVY FIVE SPOKED ASTERISK
= w-2215
• was 1f7CA
- 1F7B0 ✳ VERY HEAVY FIVE SPOKED ASTERISK
= w-2216
• was 1f7CB
- 1F7B1 ✳ EXTREMELY HEAVY FIVE SPOKED ASTERISK
= w-2217
• was 1f7CC

Six spoked asterisks

- 1F7B2 ✳ LIGHT SIX SPOKED ASTERISK
= w-2218
• was 1f7CD
- 1F7B3 ✳ MEDIUM SIX SPOKED ASTERISK
= w-2219
• was 1f7CE
- 1F7B4 ✳ BOLD SIX SPOKED ASTERISK
= w-2220
• was 1f7CF
- 1F7B5 ✳ HEAVY SIX SPOKED ASTERISK
= w-2221
• was 1f7D0
- 1F7B6 ✳ VERY HEAVY SIX SPOKED ASTERISK
= w-2222
• was 1f7D1
- 1F7B7 ✳ EXTREMELY HEAVY SIX SPOKED ASTERISK
= w-2223
• was 1f7D2

Eight spoked asterisks

- 1F7B8 ✳ LIGHT EIGHT SPOKED ASTERISK
= w-2224
• was 1f7D3
- 1F7B9 ✳ MEDIUM EIGHT SPOKED ASTERISK
= w-2225
• was 1f7D4
- 1F7BA ✳ BOLD EIGHT SPOKED ASTERISK
= w-2226
• was 1f7D5
- 1F7BB ✳ HEAVY EIGHT SPOKED ASTERISK
= w-2227
• was 1f7D6
- 1F7BC ✳ VERY HEAVY EIGHT SPOKED ASTERISK
= w-2228
• was 1f7D7

Three pointed stars

- 1F7BD ▲ LIGHT THREE POINTED BLACK STAR
= w-2229
• was 1f7D8
- 1F7BE ▲ MEDIUM THREE POINTED BLACK STAR
= w-1169
• was 1f7D9
- 1F7BF ▲ THREE POINTED BLACK STAR
= w-2230
• was 1f7DA

- 1F7C0 ▲ MEDIUM THREE POINTED PINWHEEL STAR
= w-2241
• was 1f7DB

Four pointed stars

- 1F7C1 ✚ LIGHT FOUR POINTED BLACK STAR
= w-2231
• was 1f7DC
- 1F7C2 ✚ MEDIUM FOUR POINTED BLACK STAR
= w-1170
• was 1f7DD
- 1F7C3 ✚ FOUR POINTED BLACK STAR
= w-2232
→ 2726 ✚ black four pointed star
• 2726 ✚ black four pointed star is a cusp
• was 1f7DE
- 1F7C4 ✚ MEDIUM FOUR POINTED PINWHEEL STAR
= w-2242
• was 1f7DF
- 1F7C5 ✚ REVERSE LIGHT FOUR POINTED PINWHEEL STAR
= w-0108
= navigate
• was 1f7E0

Five pointed stars

- 1F7C6 ✳ LIGHT FIVE POINTED BLACK STAR
= w-2233
→ 2605 ✳ black star
• was 1f7E1
- 1F7C7 ✳ HEAVY FIVE POINTED BLACK STAR
= w-2234
→ 272F ✳ pinwheel star
• was 1f7E3

Six pointed stars





- 1F7C8 ✳ MEDIUM SIX POINTED BLACK STAR
= w-1172
→ 2736 ✳ six pointed black star
• was 1f7E6
- 1F7C9 ✳ HEAVY SIX POINTED BLACK STAR
= w-2236
• was 1f7E7
- 1F7CA ✳ SIX POINTED PINWHEEL STAR
= W-2244
• was 1f7E8

Eight pointed stars

- 1F7CB ✳ MEDIUM EIGHT POINTED BLACK STAR
= w-2237
• was 1f7E9
- 1F7CC ✳ HEAVY EIGHT POINTED BLACK STAR
= w-1173
→ 2738 ✳ heavy eight pointed rectilinear black star
• was 1f7EA
- 1F7CD ✳ VERY HEAVY EIGHT POINTED BLACK STAR
= w-2238
• was 1f7EB
- 1F7CE ✳ HEAVY EIGHT POINTED PINWHEEL STAR
= w-1175
→ 2735 ✳ eight pointed pinwheel star
• was 1f7EC

Twelve pointed stars

- 1F7CF ✳ LIGHT TWELVE POINTED BLACK STAR
= w-2239
→ 2739 ✳ twelve pointed black star
• was 1f7ED
- 1F7D0 ✳ HEAVY TWELVE POINTED BLACK STAR
= w-1174
• was 1f7EF
- 1F7D1 ✳ HEAVY TWELVE POINTED PINWHEEL STAR
= w-2245
• was 1f7F0

	1F80	1F81	1F82	1F83	1F84	1F85	1F86	1F87	1F88	1F89	1F8A	1F8B	1F8C	1F8D	1F8E	1F8F	
0	 1F800	 1F810	 1F820	 1F830	 1F840	 1F850	 1F860										
1	 1F801	 1F811	 1F821	 1F831	 1F841	 1F851	 1F861										
2	 1F802	 1F812	 1F822	 1F832	 1F842	 1F852	 1F862										
3	 1F803	 1F813	 1F823	 1F833	 1F843	 1F853	 1F863										
4	 1F804	 1F814	 1F824	 1F834	 1F844	 1F854	 1F864										
5	 1F805	 1F815	 1F825	 1F835	 1F845	 1F855	 1F865										
6	 1F806	 1F816	 1F826	 1F836	 1F846	 1F856	 1F866										
7	 1F807	 1F817	 1F827	 1F837	 1F847	 1F857	 1F867										
8	 1F808	 1F818	 1F828	 1F838	 1F848	 1F858											
9	 1F809	 1F819	 1F829	 1F839	 1F849	 1F859											
A	 1F80A	 1F81A	 1F82A	 1F83A	 1F84A	 1F85A											
B	 1F80B	 1F81B	 1F82B	 1F83B	 1F84B	 1F85B											
C	 1F80C	 1F81C	 1F82C	 1F83C	 1F84C	 1F85C											
D	 1F80D	 1F81D	 1F82D	 1F83D	 1F84D	 1F85D											
E	 1F80E	 1F81E	 1F82E	 1F83E	 1F84E	 1F85E											
F	 1F80F	 1F81F	 1F82F	 1F83F	 1F84F	 1F85F											

Triangle headed arrows with narrow shaft

- 1F800 ← LEFTWARDS TRIANGLE-HEADED ARROW WITH NARROW SHAFT
= w-3165
• was 1f828
- 1F801 ↑ UPWARDS TRIANGLE-HEADED ARROW WITH NARROW SHAFT
- 1F802 → RIGHTWARDS TRIANGLE-HEADED ARROW WITH NARROW SHAFT
= w-3166
• was 1f829
- 1F803 ↓ DOWNWARDS TRIANGLE-HEADED ARROW WITH NARROW SHAFT

Triangle headed arrows with medium shaft

- 1F804 ← LEFTWARDS TRIANGLE-HEADED ARROW WITH MEDIUM SHAFT
= w-3167
• was 1f82C
- 1F805 ↑ UPWARDS TRIANGLE-HEADED ARROW WITH MEDIUM SHAFT
- 1F806 → RIGHTWARDS TRIANGLE-HEADED ARROW WITH MEDIUM SHAFT
= w-3168
• was 1f82D
- 1F807 ↓ DOWNWARDS TRIANGLE-HEADED ARROW WITH MEDIUM SHAFT

Triangle headed arrows with bold shaft

- 1F808 ← LEFTWARDS TRIANGLE-HEADED ARROW WITH BOLD SHAFT
= w-3169
• was 1f830
- 1F809 ↑ UPWARDS TRIANGLE-HEADED ARROW WITH BOLD SHAFT
- 1F80A → RIGHTWARDS TRIANGLE-HEADED ARROW WITH BOLD SHAFT
= w-3170
• was 1f831
- 1F80B ↓ DOWNWARDS TRIANGLE-HEADED ARROW WITH BOLD SHAFT

Triangle headed arrows with very heavy shaft

- 1F80C ← LEFTWARDS TRIANGLE-HEADED ARROW WITH VERY HEAVY SHAFT
= w-3177
• was 1f838
- 1F80D ↑ UPWARDS TRIANGLE-HEADED ARROW WITH VERY HEAVY SHAFT
- 1F80E → RIGHTWARDS TRIANGLE-HEADED ARROW WITH VERY HEAVY SHAFT
= w-3178
• was 1f839
- 1F80F ↓ DOWNWARDS TRIANGLE-HEADED ARROW WITH VERY HEAVY SHAFT

Finger-post arrows

- 1F810 ← LEFTWARDS FINGER-POST ARROW
= w-3179
• was 1f83C
- 1F811 ↑ UPWARDS FINGER-POST ARROW

- 1F812 → RIGHTWARDS FINGER-POST ARROW
= w-3180
• was 1f83D

- 1F813 ↓ DOWNWARDS FINGER-POST ARROW

Squared arrows

- 1F814 ← LEFTWARDS SQUARED ARROW
= w-3181
• was 1f840
- 1F815 ↑ UPWARDS SQUARED ARROW
= w-3183
• was 1f842
- 1F816 → RIGHTWARDS SQUARED ARROW
= w-3182
• was 1f841
- 1F817 ↓ DOWNWARDS SQUARED ARROW
= w-3184
• was 1f843

Compressed arrows

- 1F818 ← LEFTWARDS COMPRESSED ARROW
= w-3189
• was 1f844
- 1F819 → UPWARDS COMPRESSED ARROW
= w-3191
• was 1f846
- 1F81A → RIGHTWARDS COMPRESSED ARROW
= w-3190
• was 1f845
- 1F81B ↓ DOWNWARDS COMPRESSED ARROW
= w-3192
• was 1f847

Heavy compressed arrows

- 1F81C ← LEFTWARDS HEAVY COMPRESSED ARROW
= w-3193
• was 1f848
- 1F81D → UPWARDS HEAVY COMPRESSED ARROW
= w-3195
• was 1f84A
- 1F81E → RIGHTWARDS HEAVY COMPRESSED ARROW
= w-3194
→ 27A7 ↓ squat black rightwards arrow
• was 1f849
- 1F81F ↓ DOWNWARDS HEAVY COMPRESSED ARROW
= w-3196
• was 1f84B

Heavy arrows

- 1F820 ← LEFTWARDS HEAVY ARROW
= w-3197
• was 1f84C
- 1F821 ↑ UPWARDS HEAVY ARROW
= w-3199
• was 1f84E
- 1F822 → RIGHTWARDS HEAVY ARROW
= w-3198
• was 1f84D
- 1F823 ↓ DOWNWARDS HEAVY ARROW
= w-3200
• was 1f84F

Shaded white arrows

- 1F824 ⇐ LEFTWARDS BOTTOM-SHADED WHITE ARROW
= w-3090
• was 2bD0
- 1F825 ⇨ RIGHTWARDS BOTTOM SHADED WHITE ARROW
= w-3091
• was 2bD1
- 1F826 ⇐ LEFTWARDS TOP SHADED WHITE ARROW
= w-3092
• was 2bD2
- 1F827 ⇨ RIGHTWARDS TOP SHADED WHITE ARROW
= w-3093
• was 2bD3
- 1F828 ⇐ LEFTWARDS LEFT-SHADED WHITE ARROW
= w-3094
• was 2bD4
- 1F829 ⇨ RIGHTWARDS RIGHT-SHADED WHITE ARROW
= w-3095
→ 27A9 ⇨ right-shaded white rightwards arrow
• was 2bD5
- 1F82A ⇐ LEFTWARDS RIGHT-SHADED WHITE ARROW
= w-3096
• was 2bD6
- 1F82B ⇨ RIGHTWARDS LEFT-SHADED WHITE ARROW
= w-3097
→ 27AA ⇨ left-shaded white rightwards arrow
• was 2bD7
- 1F82C ⇐ LEFTWARDS BACK-TILTED SHADOWED WHITE ARROW
= w-3098
• was 2bD8
- 1F82D ⇨ RIGHTWARDS BACK-TILTED SHADOWED WHITE ARROW
= w-3099
→ 27AB ⇨ back-tilted shadowed white rightwards arrow
• was 2bD9
- 1F82E ⇐ LEFTWARDS FRONT-TILTED SHADOWED WHITE ARROW
= w-3100
• was 2bDA
- 1F82F ⇨ RIGHTWARDS FRONT-TILTED SHADOWED WHITE ARROW
= w-3101
→ 27AC ⇨ front-tilted shadowed white rightwards arrow
• was 2bDB

Wide-headed light barb arrows

- 1F830 ← WIDE-HEADED LEFTWARDS LIGHT BARB ARROW
= w-3209
• was 1f850
- 1F831 ↑ WIDE-HEADED RIGHTWARDS LIGHT BARB ARROW
= w-3210
• was 1f851
- 1F832 → WIDE-HEADED UPWARDS LIGHT BARB ARROW
= w-3211
• was 1f852
- 1F833 ↓ WIDE-HEADED DOWNWARDS LIGHT BARB ARROW
= w-3212
• was 1f853

- 1F834 ↖ WIDE-HEADED NORTH WEST LIGHT BARB ARROW
= w-3213
• was 1f854
- 1F835 ↗ WIDE-HEADED NORTH EAST LIGHT BARB ARROW
= w-3214
• was 1f855
- 1F836 ↘ WIDE-HEADED SOUTH WEST LIGHT BARB ARROW
= w-3215
• was 1f856
- 1F837 ↙ WIDE-HEADED SOUTH EAST LIGHT BARB ARROW
= w-3216
• was 1f857

Wide-headed barb arrows

- 1F838 ← WIDE-HEADED LEFTWARDS BARB ARROW
= w-1223
• was 1f858
- 1F839 ↑ WIDE-HEADED RIGHTWARDS BARB ARROW
= w-1224
• was 1f859
- 1F83A → WIDE-HEADED UPWARDS BARB ARROW
= w-1225
• was 1f85A
- 1F83B ↓ WIDE-HEADED DOWNWARDS BARB ARROW
= w-1226
• was 1f85B
- 1F83C ↖ WIDE-HEADED NORTH WEST BARB ARROW
= w-1227
• was 1f85C
- 1F83D ↗ WIDE-HEADED NORTH EAST BARB ARROW
= w-1228
• was 1f85D
- 1F83E ↘ WIDE-HEADED SOUTH WEST BARB ARROW
= w-1229
• was 1f85E
- 1F83F ↙ WIDE-HEADED SOUTH EAST BARB ARROW
= w-1230
• was 1f85F

Wide-headed medium barb arrows

- 1F840 ← WIDE-HEADED LEFTWARDS MEDIUM BARB ARROW
= w-3217
• was 1f860
- 1F841 ↑ WIDE-HEADED RIGHTWARDS MEDIUM BARB ARROW
= w-3218
→ 2794 → heavy wide-headed rightwards arrow
• was 1f861
- 1F842 → WIDE-HEADED UPWARDS MEDIUM BARB ARROW
= w-3219
• was 1f862
- 1F843 ↓ WIDE-HEADED DOWNWARDS MEDIUM BARB ARROW
= w-3220
• was 1f863
- 1F844 ↖ WIDE-HEADED NORTH WEST MEDIUM BARB ARROW
= w-3221
• was 1f864

- 1F845 ↗ WIDE-HEADED NORTH EAST MEDIUM BARB ARROW
= w-3222
• was 1f865
- 1F846 ↘ WIDE-HEADED SOUTH WEST MEDIUM BARB ARROW
= w-3223
• was 1f866
- 1F847 ↙ WIDE-HEADED SOUTH EAST MEDIUM BARB ARROW
= w-3224
• was 1f867

- 1F855 ↗ WIDE-HEADED NORTH EAST VERY HEAVY BARB ARROW
= w-3230
• was 1f875
- 1F856 ↘ WIDE-HEADED SOUTH WEST VERY HEAVY BARB ARROW
= w-3231
• was 1f876
- 1F857 ↙ WIDE-HEADED SOUTH EAST VERY HEAVY BARB ARROW
= w-3232
• was 1f877

Wide-headed heavy barb arrows

- 1F848 ← WIDE-HEADED LEFTWARDS HEAVY BARB ARROW
= w-1231
• was 1f868
- 1F849 ↑ WIDE-HEADED RIGHTWARDS HEAVY BARB ARROW
= w-1232
• was 1f869
- 1F84A → WIDE-HEADED UPWARDS HEAVY BARB ARROW
= w-1233
• was 1f86A
- 1F84B ↓ WIDE-HEADED DOWNWARDS HEAVY BARB ARROW
= w-1234
• was 1f86B
- 1F84C ↖ WIDE-HEADED NORTH WEST HEAVY BARB ARROW
= w-1235
• was 1f86C
- 1F84D ↗ WIDE-HEADED NORTH EAST HEAVY BARB ARROW
= w-1236
• was 1f86D
- 1F84E ↘ WIDE-HEADED SOUTH WEST HEAVY BARB ARROW
= w-1237
• was 1f86E
- 1F84F ↙ WIDE-HEADED SOUTH EAST HEAVY BARB ARROW
= w-1238
• was 1f86F

Wide-headed very heavy barb arrows

- 1F850 ← WIDE-HEADED LEFTWARDS VERY HEAVY BARB ARROW
= w-3225
• was 1f870
- 1F851 ↑ WIDE-HEADED RIGHTWARDS VERY HEAVY BARB ARROW
= w-3226
• was 1f871
- 1F852 → WIDE-HEADED UPWARDS VERY HEAVY BARB ARROW
= w-3227
• was 1f872
- 1F853 ↓ WIDE-HEADED DOWNWARDS VERY HEAVY BARB ARROW
= w-3228
• was 1f873
- 1F854 ↖ WIDE-HEADED NORTH WEST VERY HEAVY BARB ARROW
= w-3229
• was 1f874

Arrowheads

These sets are narrower than the dingbats set

- 1F858 ◀ THREE-D TOP-LIGHTED LEFTWARDS EQUILATERAL ARROWHEAD
= w-1215
• was 2bA3
- 1F859 ▲ THREE-D TOP-LIGHTED RIGHTWARDS EQUILATERAL ARROWHEAD
= w-1216
→ 27A2 ➤ three-d top-lighted rightwards arrowhead
• was 2bA4
- 1F85A ▼ THREE-D RIGHT-LIGHTED UPWARDS EQUILATERAL ARROWHEAD
= w-1217
• was 2bA5
- 1F85B ➤ THREE-D LEFT-LIGHTED DOWNWARDS EQUILATERAL ARROWHEAD
= w-1218
• was 2bA6
- 1F85C ◀ BLACK LEFTWARDS EQUILATERAL ARROWHEAD
= w-3133
• was 2bA7
- 1F85D ▲ BLACK RIGHTWARDS EQUILATERAL ARROWHEAD
= w-3134
→ 27A4 ➤ black rightwards arrowhead
• was 2bA8
- 1F85E ▼ BLACK UPWARDS EQUILATERAL ARROWHEAD
= w-3135
• was 2bA9
- 1F85F ➤ BLACK DOWNWARDS EQUILATERAL ARROWHEAD
= w-3136
• was 2bAA
- 1F860 ◀ LEFTWARDS TRIANGLE ARROWHEAD
= w-3233
= draw left
• was 2bE0
- 1F861 ▶ RIGHTWARDS TRIANGLE ARROWHEAD
= w-3234
= draw right
• was 2bE1
- 1F862 ▲ UPWARDS TRIANGLE ARROWHEAD
= w-3235
= draw up
• was 2bE2
- 1F863 ▼ DOWNWARDS TRIANGLE ARROWHEAD
= w-3236
= draw down
• was 2bE3

- 1F864 ◁ LEFTWARDS WHITE ARROW WITHIN TRIANGLE
ARROWHEAD
= w-3237
= draw double left
• was 2bE4
- 1F865 ▷ RIGHTWARDS WHITE ARROW WITHIN
TRIANGLE ARROWHEAD
= w-3238
= draw double right
• was 2bE5
- 1F866 ▲ UPWARDS WHITE ARROW WITHIN TRIANGLE
ARROWHEAD
= w-3239
= draw double up
• was 2bE6
- 1F867 ▼ DOWNWARDS WHITE ARROW WITHIN
TRIANGLE ARROWHEAD
= w-3240
= draw double down
• was 2bE7

Template for comments and secretariat observations

Date: 14.09.2011

Document: N4201 ISO/IEC 10646PDAM_/A1

1	2	(3)	4	5	(6)	(7)
MB ¹	Clause No./ Subclause No./ Annex (e.g. 3.1)	Paragraph/ Figure/Table/ Note (e.g. Table 1)	Type of com- ment ²	Comment (justification for change) by the MB	Proposed change by the MB	Secretariat observations on each comment submitted
RO	The whole document		ge	The block "Old Hungarian" is not adequate for encoding as such	Discussions with the specialists in the TC	

1 **MB** = Member body (enter your 6 two-letter country code, e.g. CN for China; comments from the ISO/CS editing unit are identified by **)

2 **Type of comment:** **ge** = general **te** = technical **ed** = editorial

NOTE Columns 1, 2, 4, 5 are compulsory.

Template for comments and secretariat observations

Date: 2011-10-13

Document: ISO/IEC 10646/PDAM 1.2

1	2	(3)	4	5	(6)	(7)
MB ¹	Clause No./ Subclause No./ Annex (e.g. 3.1)	Paragraph/ Figure/Table/ Note (e.g. Table 1)	Type of com- ment ²	Comment (justification for change) by the MB	Proposed change by the MB	Secretariat observations on each comment submitted
GB	31	Latin Extended-D	te	Once again we reaffirm our support for the encoding of A78F LATIN LETTER MIDDLE DOT (see also the UK ballot comments for ISO/IEC 10646:2003 FPDAM8, SC2 N4123). This character cannot be suitably represented by any existing character, such as U+00B7 MIDDLE DOT (a punctuation mark with the wrong character properties) or U+02D1 MODIFIER LETTER HALF TRIANGULAR COLON (wrong glyph shape and wrong semantics), and no convincing arguments have been advanced for not encoding it. As there is a pressing need to use it for representing Tangut phonetic data, we would strongly object to any further delay in the encoding of this character.	None.	

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Template for comments and secretariat observations

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US		Latin Extended-D	T.1.	Justification for the request to remove this character is contained in N3678 (L2/09-278). A viable alternative to encoding a separate letter middle dot, for the purposes cited by the original proposal, would be to use the already encoded modifier letter, U+02D1 MODIFIER LETTER HALF TRIANGULAR COLON.	The U.S. requests the removal of U+A78F LATIN LETTER MIDDLE DOT. We reiterate that this character is unnecessary and is a damaging duplication for the standard and should be removed from the amendment.	
US		Pau Cin Hau	T.2.	The revised names for 11AC5 PAU CIN HAU LETTER Y and 11ACA PAU CIN HAU LETTER X (to “PAU CIN HAU LETTER Z” and “PAU CIN HAU LETTER KH”) better reflect the modern phonology and Latin orthography for the Tedim language, which uses this script. The new names for glottal-stop marks are better descriptors of the characters’ properties and usage. The new name for 11AF1 PAU CIN HAU MID-LEVEL TONE LONG FINAL is a correction.	The U.S. requests the following name changes: [CODE POINT CURRENT NAME > NEW NAME] 11AC5 PAU CIN HAU LETTER Y > PAU CIN HAU LETTER Z 11ACA PAU CIN HAU LETTER X > PAU CIN HAU LETTER KH 11AE7 PAU CIN HAU GLOTTAL STOP VARIANT > PAU CIN HAU SANDHI GLOTTAL STOP 11AEA PAU CIN HAU GLOTTAL STOP VARIANT FINAL > PAU CIN HAU SANDHI GLOTTAL STOP FINAL 11AF0 PAU CIN HAU GLOTTAL STOP OTHER > PAU CIN HAU GLOTTAL STOP VARIANT 11AF1 PAU CIN HAU MID-LEVEL TONE LONG > PAU CIN HAU	

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Template for comments and secretariat observations

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MB ¹	Clause No./ Subclause No./ Annex (e.g. 3.1)	Paragraph/ Figure/Table/ Note (e.g. Table 1)	Type of comment ²	Comment (justification for change) by the MB	Proposed change by the MB	Secretariat observations on each comment submitted
					MID-LEVEL TONE LONG FINAL	
US		Old Italic	T.3.	The proposal has demonstrated that Rhetic can amply be covered by the Old Italic script.	The U.S. requests the addition of U+1032F OLD ITALIC LETTER TTE, as proposed in N4046 (L2/11-146).	
US		Miscellaneous Symbols and Pictograms	T.4.	An error appears in the names list.	The character U+1F545 SYMBOL FOR CHAPTER MARKS contains an error in the name, and should be corrected to: SYMBOL FOR MARKS CHAPTER.	
US		Combining Half Marks	T.5.	Two errors appear in the names list.	Two character names are in error and need have "DOUBLE" removed from their names: (Current names) U+FE29 COMBINING DOUBLE TILDE LEFT HALF BELOW U+FE2A COMBINING DOUBLE TILDE RIGHT HALF BELOW (Corrected names) U+FE29 COMBINING TILDE LEFT HALF BELOW U+FE2A COMBINING TILDE RIGHT HALF BELOW	
US		(various blocks containing Webdings and Wingdings)	T.6.		The U.S. requests the addition of Webdings characters and modifications to the set of Wingdings characters currently in the PDAM 1.2 (SC2 N4201), as described in N4143 (L2/11-344).	
US		page 1 of PDAM (SC2 N4201)	E.1.	(Typographic error in need of correction.)	The following line should remove an "s" in "formats": <i>Insert the following entry in the list of formats characters:</i>	
US		pages 1, 3, 4, and 5 of PDAM (SC2 N4201)	E.2.	(Typographic error in need of correction.)	On pages 1, 3,4, and 5, the block name "Short hand" should be replaced by "Shorthand."	
US		Duployan	E.3.	(Typographic error in need of	The named aliases for U+1BC0B, U+1BC70-U+1BC75 and	

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Template for comments and secretariat observations

Date: 2011-10-12

Document: **SC 2 N 4201**

1	2	(3)	4	5	(6)	(7)
MB ¹	Clause No./ Subclause No./ Annex (e.g. 3.1)	Paragraph/ Figure/Table/ Note (e.g. Table 1)	Type of com- ment ²	Comment (justification for change) by the MB	Proposed change by the MB	Secretariat observations on each comment submitted
				correction.)	U+1BC80 has a recurrent typo: "Pernin ReportersÖ". It should be "Pernin Reporters", with a single quote instead of "Ö".	
US		Enclosed Alphanumeric Supplement	E.4.	(Typographic error in need of correction.)	The italicized comment immediately above U+1F10B should remove the "s" in "complements": <i>These digits complements the sans-serif digit sets in the Dingbat block 2780-2789 and 278A-2793.</i>	
US		Geometric Shapes Extended	E.5.	(Typographic error in need of correction.)	In the italicized comment, the verb should just be "originate" (instead of "are originated"): <i>These geometric shapes are originated from the Webdings/Wingdings collections.</i>	

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Template for comments and secretariat observations

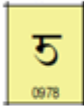

1	2	(3)	4	5	(6)	(7)												
MB ¹	Clause No./ Subclause No./ Annex (e.g. 3.1)	Paragraph/ Figure/Table/ Note (e.g. Table 1)	Type of comment ²	Comment (justification for change) by the MB	Proposed change by the MB	Secretariat observations on each comment submitted												
US		Limbu	E.6.	The requested glyph modifications will more faithfully reflect those shown in the original proposal N3975 (L2/11-008) and be more consistent with other glyphs in the chart.	<p>The U.S. requests the glyphs for U+191D LIMBU LETTER GYAN and U+191E LIMBU LETTER TRA be modified as follows:</p> <p>(Current)</p> <table border="1"> <tr> <td>𑄀</td> <td>𑄁</td> </tr> <tr> <td>190C</td> <td>191C</td> </tr> <tr> <td>𑄂</td> <td>𑄃</td> </tr> <tr> <td>190D</td> <td>191D</td> </tr> <tr> <td>𑄄</td> <td>𑄅</td> </tr> <tr> <td>190E</td> <td>191E</td> </tr> </table> <p>(glyphs in original proposal)</p> <p>𑄃 𑄅</p> <p>(glyphs in figure 1)</p> <p>𑄃 𑄅</p>	𑄀	𑄁	190C	191C	𑄂	𑄃	190D	191D	𑄄	𑄅	190E	191E	
𑄀	𑄁																	
190C	191C																	
𑄂	𑄃																	
190D	191D																	
𑄄	𑄅																	
190E	191E																	

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Template for comments and secretariat observations

1	2	(3)	4	5	(6)	(7)
MB ¹	Clause No./ Subclause No./ Annex (e.g. 3.1)	Paragraph/ Figure/Table/ Note (e.g. Table 1)	Type of comment ²	Comment (justification for change) by the MB	Proposed change by the MB	Secretariat observations on each comment submitted
US		Devanagari	E.7.	The proposed glyph change will more faithfully reflect the shape shown in the revised proposal N3970 (L2/10-475R), dated 23 May 2011.	<p>The U.S. requests the glyph for U+0978 DEVANAGARI LETTER MARWARI DDA be modified as follows:</p> <p>(Current)</p>  <p>(as reflected in revised proposal)</p> 	
US		Cover page and pages 1 and 3 of PDAM (SC2 N4201)	E.8.	(Typographic error in need of correction.)	The title of the PDAM on the cover page of N4201 currently reads: "Amendment 1: Linear A, Palmyrene, Manichean, Khojki, Khudawadi, Bassa Vah, Duployan, and other characters". The script name "Manichean" is a typo for "Manichaeian" and should also be corrected on pages 1 and 3.	

1 **MB** = Member body (enter the ISO 3166 two-letter country code, e.g. CN for China; comments from the ISO/CS editing unit are identified by **)

2 **Type of comment:** **ge** = general **te** = technical **ed** = editorial

NOTE Columns 1, 2, 4, 5 are compulsory.