ISO/IEC JTC 1/SC 2 N 4156

DATE: 2010-09-24

<div style="border:1px solid">

ISO/IEC JTC 1/SC 2
Coded Character Sets
Secretariat: Japan (JISC)

</div>

DOC. TYPE	Summary of Voting/Table of Replies
TITLE	Summary of Voting on SC 2 N 4146, ISO/IEC CD 10646 (3rd Ed.), Information technology -- Universal Coded Character Set (UCS)
SOURCE	SC 2 Secretariat
PROJECT	JTC 1.02.10646.00.00.00.03
STATUS	This document is forwarded to WG 2 for disposition 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
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FILE	**NAME** 02n4156.zip **SIZE (KB)** **PAGES** 58

Result of voting

Ballot Information

Ballot reference	SC2N4146
Ballot type	CIB
Ballot title	ISO/IEC CD 10646 (3rd Ed.), Information technology -- Universal Coded Character Set (UCS)
Opening date	2010-06-22
Closing date	2010-09-22
Note	

Member responses:

Votes cast (22)	Canada (SCC)
	China (SAC)
	Egypt (EOS)
	Finland (SFS)
	France (AFNOR)
	Germany (DIN)
	Hungary (MSZT)
	Iceland (IST)
	Indonesia (BSN)
	Ireland (NSAI)
	Japan (JISC)
	Korea, Republic of (KATS)
	Norway (SN)
	Poland (PKN)
	Romania (ASRO)
	Russian Federation (GOST R)
	Sweden (SIS)
	Thailand (TISI)
	Tunisia (INNORPI)
	Ukraine (DSSU)
	United Kingdom (BSI)
	USA (ANSI)
Comments submitted (1)	Armenia (SARM)
Votes not cast (7)	Austria (ASI)
	Greece (ELOT)
	India (BIS)
	Korea, Dem. P. Rep. of (CSK)
	Mongolia (MASM)
	Serbia (ISS)
	Sri Lanka (SLSI)

Questions:

Q.1	"Do you agree with approval of the CD Text?"
Q.2	"If you approve the CD Text with comments, would you please indicate which type ?

	(General, Technical or Editorial)"
Q.3	"If you Disappove 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	Q.3
Canada (SCC)	Approval as presented	Ignore	Ignore
China (SAC)	Approval with comments	Ignore	Ignore
Egypt (EOS)	Approval with comments	Editorial	Ignore
Finland (SFS)	Approval as presented	Ignore	Ignore
France (AFNOR)	Abstention	Ignore	Ignore
Germany (DIN)	Approval as presented	Ignore	Ignore
Hungary (MSZT)	Approval as presented	Ignore	Ignore
Iceland (IST)	Approval as presented	All	Ignore
Indonesia (BSN)	Approval as presented	Ignore	Ignore
Ireland (NSAI)	Disapproval of the draft	All	Yes
Japan (JISC)	Approval with comments	All	Ignore
Korea, Republic of (KATS)	Disapproval of the draft	General	Yes
Norway (SN)	Approval with comments	All	Ignore
Poland (PKN)	Abstention	Ignore	Ignore
Romania (ASRO)	Approval as presented	Ignore	Ignore
Russian Federation (GOST R)	Approval as presented	Ignore	Ignore
Sweden (SIS)	Abstention	Ignore	Ignore
Thailand (TISI)	Approval as presented	Ignore	Ignore
Tunisia (INNORPI)	Approval as presented	Ignore	Ignore
Ukraine (DSSU)	Approval as presented	Ignore	Ignore
United Kingdom (BSI)	Approval as presented	Ignore	Ignore
USA (ANSI)	Approval with comments	Ignore	Ignore

Answers to Q.1: "Do you agree with approval of the CD Text?"		
12 x	Approval as presented	Canada (SCC) Finland (SFS) Germany (DIN) Hungary (MSZT) Iceland (IST) Indonesia (BSN) Romania (ASRO) Russian Federation (GOST R) Thailand (TISI) Tunisia (INNORPI) Ukraine (DSSU) United Kingdom (BSI)
5 x	Approval with comments	China (SAC) Egypt (EOS) Japan (JISC) Norway (SN) USA (ANSI)
2 x	Disapproval of the draft	Ireland (NSAI) Korea, Republic of (KATS)
3 x	Abstention	France (AFNOR) Poland (PKN) Sweden (SIS)

Answers to Q.2: "If you approve the CD Text with comments, would you please indicate which type ? (General, Technical or Editorial)"		
1 x	General	Korea, Republic of (KATS)
0 x	Technical	
1 x	Editorial	Egypt (EOS)
4 x	All	Iceland (IST) Ireland (NSAI) Japan (JISC) Norway (SN)
16 x	Ignore	Canada (SCC) China (SAC) Finland (SFS) France (AFNOR) Germany (DIN) Hungary (MSZT) Indonesia (BSN) Poland (PKN) Romania (ASRO) Russian Federation (GOST R) Sweden (SIS) Thailand (TISI) Tunisia (INNORPI) Ukraine (DSSU) United Kingdom (BSI) USA (ANSI)

Answers to Q.3: "If you Disappove the Draft, would you please indicate if you accept to

change your vote to Approval if the reasons and appropriate changes will be accepted?"		
2 x	Yes	**Ireland (NSAI)** **Korea, Republic of (KATS)**
0 x	No	
20 x	Ignore	**Canada (SCC)** **China (SAC)** **Egypt (EOS)** **Finland (SFS)** **France (AFNOR)** **Germany (DIN)** **Hungary (MSZT)** **Iceland (IST)** **Indonesia (BSN)** **Japan (JISC)** **Norway (SN)** **Poland (PKN)** **Romania (ASRO)** **Russian Federation (GOST R)** **Sweden (SIS)** **Thailand (TISI)** **Tunisia (INNORPI)** **Ukraine (DSSU)** **United Kingdom (BSI)** **USA (ANSI)**

Comments from Voters		
Member:	Comment:	Date:
China (SAC)	*Comment*	2010-09-17 05:35:38
China is in favor of N4146 with comments. The fonts of Multi-column code charts of CJK Unified Ideographs (mail block and extensions) must be corrected according to IRG suggestions. The suggestions are hopefully be available after IRG#35 in November, 2010.		
Egypt (EOS)	*Comment*	2010-09-22 10:13:30
The existing Arabic character name used for these letters are not the classical naming. Please change to the proposed writing. This will facilitate the understanding for this character by all Arabic speaking users. replace all (BEH) with (BA') replace all (TEH) with (TA') replace all (THEH) with (THA') replace all (HAH) with (HA') replace all (KHAH) with (KHA') replace all (REH) with (RA')		

replace all (ZAIN) with (ZAY)		
replace all (ZAH) with (DHA')		
replace all (FEH) with (FA')		
replace all (HEH) with (HA)		
replace all (YEH) with (YA')		
Replace (WASLA) with (WASL)		
France (AFNOR)	*Comment*	2010-08-13 11:28:24
France has no active mirror committee or expertise for this project		
Ireland (NSAI)	*Comment*	2010-09-21 18:15:20
Comments sent directly to Secretary		
Japan (JISC)	*Comment File*	2010-09-21 10:02:32
CommentFiles/SC2N4146_JISC.doc		
Korea, Republic of (KATS)	*Comment*	2010-09-18 09:36:52
Coomment file is attached.		
Korea, Republic of (KATS)	*Comment File*	2010-09-18 09:36:52
CommentFiles/SC2N4146_KATS.doc		
Norway (SN)	*Comment File*	2010-09-13 13:54:47
CommentFiles/SC2N4146_SN.doc		
USA (ANSI)	*Comment File*	2010-09-16 20:47:33
CommentFiles/SC2N4146_ANSI.doc		

Comments from Commenters		
Member:	Comment:	Date:
Armenia (SARM)	*Comment*	2010-09-22 13:23:02
Upon consultation with the local specialist and the Armenian Dram Sign author SARM decided to stay with its request to place the sign in the "Currency Symbols" range 20A0-20CF at the available position 20B9. One of the main reasons for that is that the currency symbols are united in one and the same block on the basis of the main elements repeated in those sings, and not on the basis of national alphabets or scripts. In other words the signs in this range are grouped in accordance with their functionality alike the three-letter abbreviations for the		

monetary instruments.

We also propose to involve Armenian Eternity Sign in ISO CD 10646 (3-rd Ed.). Please find attached the relevant information.

Armenia (SARM)	*Comment File*	2010-09-22 13:23:02
CommentFiles/SC2N4146_SARM.doc		

Template for comments and secretariat observations

Date:	Document:

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
	21	The list after the first paragraph	ed	The first level of itemization should use a), b), c), ... as opposed to 1), 2), ...	Replace "1)", "2)", "3)", and "4)" with "a)", "b)", "c)", and "d)".	
	22.4	2nd and 3rd list items after the 2nd paragraph	ed	Two notations, "Shift-JIS" and "Shift-Jis", are used to represent a same thing here. We should use a single notation consistently. All capital spelling as "JIS" is preferred.	Replace two occurrences of "Shift-Jis" with "Shift-JIS".	
	23.1	The definition sentence for the "GKX" source	te	During the review of CJK B multicolumn code chart, it is exposed that many of the G column glyphs of GKX source have significantly different shapes from those actually shown on the Kangxi dictionary. Most of the differences are within the scope of unification (as specified in Annex S), so it does not affect what UCS defines. However, Japan believes it is a bad idea to show a different glyph from the Kangxi and say the *source* of that particular character is Kangxi.	Rephrase the definition of GKX source to make clear that the glyphs shown on the code chart is taken from the modern Chinese standards and not from the said Kangxi dictionary directly. Japan proposes to consult IRG discussion for the exact wording.	
	31	Code chart of CJK Unified Ideographs Extension B	ge	During the early discussion of CJK B multicolumn code chart, IRG proposed to add a new *source column* for the glyphs in the single column code chart in the previous editions of ISO/IEC 10646. The request was not agreed on in WG 2, and the major reason was the resource problem. After several years after the discussion, the project editor kindly supplied a special version of the code chart that contains the desired column for IRG review work. It is great. Japan believes it also facilitate users of the standard.	Add another *source column* to the code chart to show the glyphs on the code chart in previous editions of ISO/IEC 10646.	
	31	Code chart of CJK Unified Ideographs Extension B	ge	IRG is now reviewing CJK B code chart.	Update the CJK Unified Ideographs Extension B code chart appropriately to reflect the review by IRG.	
	Annex M	Item for "JIS X0201-1976" under "CJK	ed	JIS X0201-1976 is currently classified under "CJK Unified Ideographs", but JIS X0201 is a Japanese version of ISO/IEC 646 (plus half-width katakana) and it contains no	Move "JIS X0201-1976" under "General"	

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

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

ISO electronic balloting commenting template/version 2001-10

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
		Unified Ideographs"		ideographs. Putting JIS X0201 here should be a mistake. Japan believes the major contribution of JIS X0201 to UCS is the set of half-width katakana.		
	Annex S		ge	IRG discussed on the proposed changes to Annex S and reached consensus. It is not reflected to the current CD.	Update the Annex S appropriately to reflect the results of Nagaoka IRG meeing.	

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2 **Type of comment:**   **ge** = general   **te** = technical   **ed** = editorial
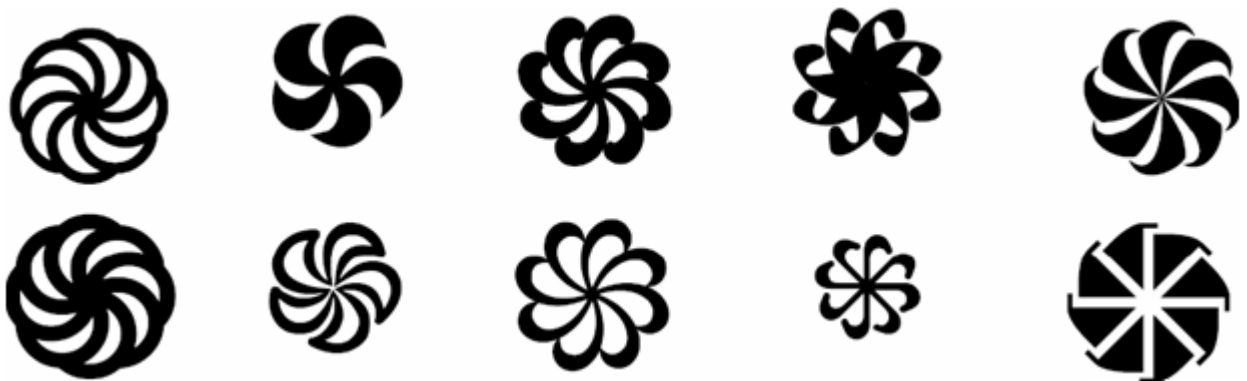
NOTE   Columns 1, 2, 4, 5 are compulsory.

ISO electronic balloting commenting template/version 2001-10

Armenian Eternity Sign

SYMBOL	NAME	SHORT NAME, NICK	ASSUMED PLACE IN **UNICODE ISO 10646**
	ETERNITY SIGN	armeternity	**Dingbats** Range 2700-27BF No proposed position Reason: the range is filled up

History

Armenian Eternity Sign is the ancient national symbol and in Armenian reality it can be met in many variations. The appearance of the Sign resembles both clockwise and anti-clockwise rotating ornament, which is composed with curves running from center of the symbol. As a rule the Sign should have eight curves, as this number stands for revival, rebirth and recurrence. However, the symbol may be represented with four and more curves as well.

Right and left rotations have accordingly active and passive meanings, as in case of Swastika, and are used in order to accentuate these meanings. For example, a cradle for a boy is decorated with the right whirling eternity sign and a cradle for a girl with the left whirling eternity sign.

It can be performed both two-dimensionally and three-dimensionally.

Eternity Sign opens the list of symbols included in ArmSCII[*] .

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[*] Armenian Standard Code for Information Interchange, in http://en.wikipedia.org/wiki/ArmSCII

Armenian Symbol of Eternity is the direct descendent of the pre-historic Swastika and has clear Armenian interpretation. It symbolizes the identity of Armenian nation suchlike a David's star for Hebrews.

The earliest roots of round whirling sun-like symbols in the Armenian Highland are rock inscriptions from the Stone Age.

Ancient Armenian stone pictures (Stone Age)

In Armenia the eternity sign can be found everywhere, in architecture; on doors, walls and etc. The sign of Eternal Life, or turning wheel, was carved on numerous Khatchqar (Cross-Stones) and church walls in ancient Armenia.

Yeghegnadzor Province

The village of Martiros

Khatchqar built in 1499 AD

Vardenis

Dashkend

Khatchqar built in 1539 AD

The **Monastery of Harich** or **Harichavank,** 7th century, located near the village of Harich, Armenian

Besides the meaning that "Everything Armenian starts from the eternity sign", this sign has a punctuation function also: it is applied to divide a text into parts (chapters), as well as to design a text or a poem or to make references like an asterisk sign (∗).

Example

My Heart's In The Highlands ✵

My heart's in the Highlands, my heart is not here,
My heart's in the Highlands a-chasing the deer -
A-chasing the wild deer, and following the roe;
My heart's in the Highlands, wherever I go.

Farewell to the Highlands, farewell to the North
The birth place of Valour, the country of Worth;
Wherever I wander, wherever I rove,
The hills of the Highlands for ever I love.

Farewell to the mountains high cover'd with snow;
Farewell to the Straths and green valleys below;
Farewell to the forests and wild-hanging woods;
Farwell to the torrents and loud-pouring floods.

My heart's in the Highlands, my heart is not here,
My heart's in the Highlands a-chasing the deer
Chasing the wild deer, and following the roe;
My heart's in the Highlands, wherever I go.

✦   *Famous Armenian writer William Saroyan's poem by Robert Burns*

Armenia today, is arguably the only nation on earth where the Symbol of Eternity is a prominent and integral part of artistic expression and spiritual symbolism.

Date:		Document:	

1	2	(3)	4	5	(6)	(7)
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ISO electronic balloting commenting template/version 2001-10

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

ISO electronic balloting commenting template/version 2001-10

Korea JTC1/SC2, Committee on Character Codes

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Author: KIM, Kyongsok (GIM, Gyeongseog), Chairperson of Korea JTC1/SC2

Date: 2010.09.20.

Status: National Body Position, Rep. of KOREA

Subject: Korea's comments on SC2 N4146, CD Ballot on ISO/IEC 10646, 3ed.

[Technical comments]

T1. Annotations for U31xx

1) Rep. of Korea suggests that annotations for 50 U31xx Hangul letters be added as Annex R.2:

[current text in 3ed CD]:

Annex R (informative) Names of Hangul syllables

   This annex provides the full name and additional information of Hangul syllables through a linked file ...

--->

[proposed text]

Annex R (informative) Names of Hangul syllables and annotations for Hangul Letters

Annex R.1 Names of Hangul syllables

   This annex R.1 provides the full name and additional information of Hangul syllables through a linked file ...

...

Annex R.2 Annotations for Hangul Letters

   This annex R.2 provides the annotations for 50 selected Hangul letters in the range of U3131 ~ U318E.

3131 ㄱ HANGUL LETTER KIYEOK

   • *voiceless or voiced lenis velar plosive consonant*

3132 ㄲ HANGUL LETTER SSANGKIYEOK

   • *voiceless unaspirated glottalized velar plosive consonant*

...

318D · HANGUL LETTER ARAEA

  · *rounded open-mid back vowel*

- For a full list of 50 suggested annotations, see Appendix 1.

  2) <mark>Rep. of Korea suggests</mark> that annotations for U3181 and U3186 are deleted since annotations for these two letters are added to Annex R.2:

[current text in 3ed CD]

3181 ㆁ HANGUL LETTER YESIEUNG

· old velar nasal

3186 ㆆ HANGUL LETTER YEORINHIEUH

· old glottal stop

--->

[proposed change]

3181 ㆁ HANGUL LETTER YESIEUNG

3186 ㆆ HANGUL LETTER YEORINHIEUH

== Rationale: As with U3181 or U3186, ROK suggests that annotations explaining the characteristics of phonemes for 50 letters in the range of U3131 ~ U318E be added as Annex R.2.

T2. p. 385 (and p. 389): μL, mL, dL, kL

- ROK suggests that four characters, μL, mL, dL, kL, be added to UCS.

== Rationale:

1) ISO 1000 clearly mentions that the symbols to be used for Litre is L (U0041) or l (U006C), NOT script small L (U2113)

INTERNATIONAL
STANDARD

**ISO
1000**

Third edition
1992-11-01

Table 5 — Units used with the SI

Quantity	Unit		
	Name	Symbol	Definition
time	minute	min	1 min = 60 s
	hour	h	1 h = 60 min
	day	d	1 d = 24 h
plane angle	degree	°	1° = (π/180) rad
	minute	´	1´ = (1/60)°
	second	˝	1˝ = (1/60)´
volume	litre	l, L1)	1 l = 1 dm³
mass	tonne2)	t	1 t = 10³ kg

1) The two symbols for the litre are on an equal footing. The CIPM will, however, make a survey on the development of the use of the two symbols in order to see if one of the two may be suppressed.
2) Also called the metric ton in the English language.

litre	l, L1)

2) In ROK's "original" comments to UCS, 2ed FCD, ROK suggested that the script small L in glyphs of code positions U3395, U3396, U3397, and U3398 be changed to Latin capital L (U004C). However, ROK withdrew this comment.

[current glyphs]

-->

[proposed glyphs]

3) These four characters are included in KS X 1001 (formerly KS C 5601) and it is explicitly mentioned that they stand for micro-liter, milli-liter, deci-liter, and kilo-liter, respectively.

4) Based on 1) above, ROK decided to change the glyphs of these four characters in KS X 1001 so that they conform to SI.

ROK decided to use capital L since small L could be easily confused with digit 1.

The glyphs in KS X 1001:2004 and KS X 1001:2010 are shown below:

row col code   glyph   glyph

no. no. pos.   2004   2010

07 01 A7A1   μℓ   -> μL

07 02 A7A2   mℓ   -> mL

07 03 A7A3   dℓ   -> dL

07 05 A7A5   kℓ   -> kL

5) Considering that KS X 1001 is the basic and important character code standard in R.O.Korea and that R.O.Korea decided to change the glyphs of these four characters in KS X 1001:2010, ROK suggests that these four characters with capital L be added to UCS.

T3. R.O.Korea suggests that one character, SQUARE WITH DOTS, in KS X 1001 be added to UCS:

== Rationale:

1) Some people mapped the character in row 2, column 38 (code position 0xA2C6) in KS X 1001 to U2592.
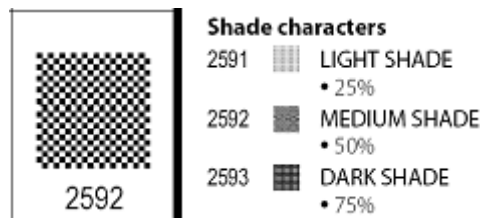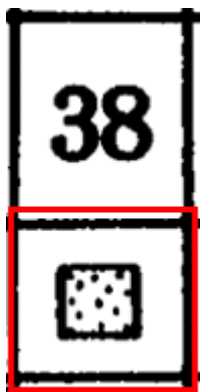
row 2, column 38, (code position   U2592

0xA2C6) in KS X 1001.

2) However, Korean people mentioned that U2592 is much different from 0xA2C6 in KS X 1001 and requested that the glyph 0xA2C6 be added to UCS.

 - As you can see, U2592 is "Shade" (its char. name is "MEDIUM SHARE"), NOT "Square" (its char. name is "SQUARE WITH DOTS") .

3) There are six more characters with similar property (i.e., their names contain SQUARE) in KS X as shown below:
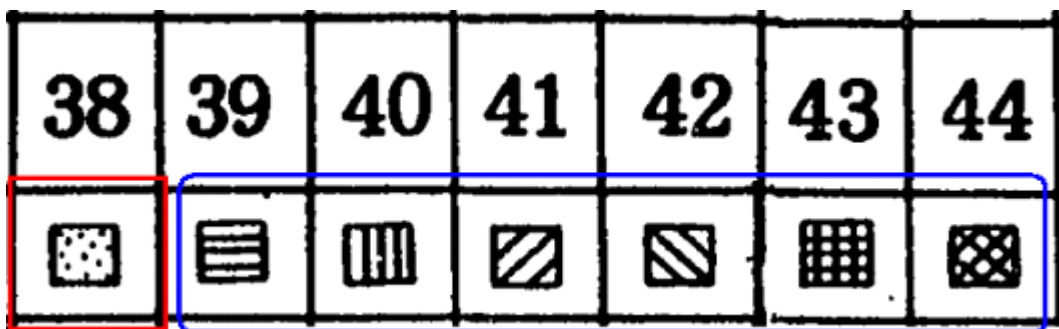
  As you can see, these six characters in the right rounded rectangle above (whose column numbers are 39 ~ 44) correspond to the following UCS characters without any problem, since both KS and UCS characters are SQUAREs.
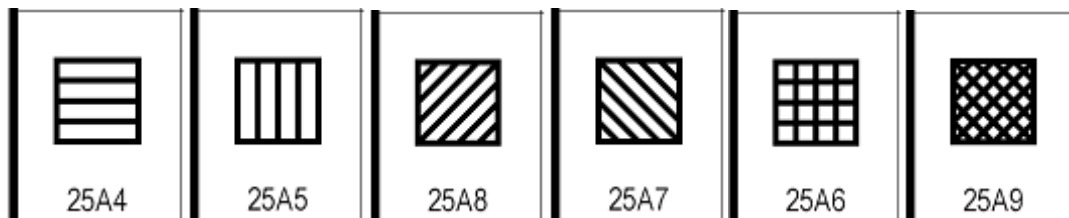
25A4	▤	SQUARE WITH HORIZONTAL FILL
25A5	▥	SQUARE WITH VERTICAL FILL
25A6	▦	SQUARE WITH ORTHOGONAL CROSSHATCH FILL
25A7	▧	SQUARE WITH UPPER LEFT TO LOWER RIGHT FILL
25A8	▨	SQUARE WITH UPPER RIGHT TO LOWER LEFT FILL
25A9	▩	SQUARE WITH DIAGONAL CROSSHATCH FILL

4) As you can see below, the names of all SEVEN characters in KS X 1001 contain "SQUARE (사각형표)".

2-38	▨	점무늬 사각형표
2-39	▤	가로줄무늬 사각형표
2-40	▥	세로줄무늬 사각형표
2-41	▨	빗줄무늬 사각형표
2-42	▨	왼빗줄무늬 사각형표
2-43	▦	그물무늬 사각형표
2-44	▨	빗그물무늬 사각형표

T4. Source reference for "Idu" characters

- On p. 39, the G source for 92 Korean "Idu" characters are G1 GB12345-90 as shown below:

The Hanzi G sources are ...
G1 GB12345-90 with 58 Hong Kong and 92 Korean "Idu" characters

- G source references for 91 characters in CJKU_SR.txt are of the form "G1-7Dxx" as shown below:

04E06;1.1;G1-7D3D;;;K2-2121;;;;;

04E37;3.1;<mark>G1-7D65</mark>;;;K2-212D;;H-8BF9;;;

04E41;4.0;<mark>G1-7D7B</mark>;T4-2123;J1-3030;K2-2131;;;;;

...

097B0;177.9;<mark>G1-7D79</mark>;T4-617C;;;;;KP1-85B6;;

- However, GB12345-90 does NOT seem to include 92 Korean "Idu" characters (and 58 Hong Kong chars). Row 93 of GB12345-90 "probably" corresponding to G1-7Dxx is empty.

   Actually, GB12052-89, NOT GB12345-90, DOES contain 94 Idu characters.

T4.1 <mark>R.O.Korea suggests that</mark>

   1) GB12345-90 instead of G1 (GB12052) be used as source reference for 91 Idu chars; OR

   2) 94 (92?, 91?) Idu characters be actually added to GB12345 (If it is done, G1 source reference will not have any problem.)

T4.2 Currently G1 is said to include 92 Idu characters.   However, actually there are only 91 characters whose source reference is of the form G1-7Dxx; furthermore, GB 12052-89 contains 94 Idu characters.

   - <mark>R.O.Korea suggests</mark> that P.R.China clarify the differences in these three numbers and, if necessary, change the number "92" to "91" or "94".

T4.3 Similar comments can be made for 58 Hong Kong characters.

   - GB12345-90 does NOT seem to include 58 Hong Kong chars. Row 92 of GB12345-90 "probably" corresponding to G1-7Dxx is empty.

   <mark>R.O.Korea suggests that</mark>

1) Acutal GB_xxxxx standard instead of G1 (GB12052) be used as source reference for 58 Hong Kong chars; OR

2) 58 Hong Kong characters be actually added to GB12345 (If it is done, G1 source reference will not have any problem).

T5. KP1-0000

- relevant text/file: CJKC_SR.txt and p. 1146 of 3ed CD
- There is no source reference to UFAD4 line in CJKC_SR.txt file in 2ed FCD.

// CJKC_SR.txt in 2ed FCD
0FAD4;04039;;;;;;

- However, KP1-0000 is added to UFAD4 line in CJKC_SR.txt file of 2ed CD.

// CJKC_SR.txt in 3ed CD
0FAD4;04039;109.7;;;;;;KP1-0000

T5.1 R.O.Korea suggests that CJKC_SR.txt file be changed as follows (i.e., remove "KP1-0000"):

0FAD4;04039;109.7;;;;;;KP1-0000
-->
0FAD4;04039;109.7;;;;;;

== Rationale: Since there is no source reference to U0FAD4, it seems best not to have any source reference in U0FAD4 line in CJKC_SR.txt.

T5.2 <mark>R.O.Korea suggests</mark> that KP1-0000 be removed from the UFAD4 in CJK table:

FAD4
日 109.7

映
KP1-0000
• mapping change removed original source
→ 2F949 映 cjk compatibility ideograph-2F949
≡ 4039 映

-->

FAD4
日 109.7

映

• mapping change removed original source
→ 2F949 映 cjk compatibility ideograph-2F949
≡ 4039 映

- <mark>R.O.Korea suggests</mark> that the glyph for U0FAD4 remain as is;

* * *

Appendix 1. A full list of suggested annotations for 50 letters in the range of U3131 ~ U318E

3131 ㄱ HANGUL LETTER KIYEOK
  • voiceless or voiced lenis velar plosive consonant

3132 ㄲ HANGUL LETTER SSANGKIYEOK
  • voiceless unaspirated glottalized velar plosive consonant

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Homepage :   http://www.ats.go.kr

3134 ㄴ HANGUL LETTER NIEUN

  · alveolar nasal consonant

3137 ㄷ HANGUL LETTER TIKEUT

  · voiceless or voiced lenis alveolar plosive consonant

3138 ㄸ HANGUL LETTER SSANGTIKEUT

  · voiceless unaspirated glottalized alveolar plosive consonant

3139 ㄹ HANGUL LETTER RIEULL

  · alveolar lateral approximant or alveolar tap or flap consonant

3141 ㅁ HANGUL LETTER MIEUM

  · bilabial nasal consonant

3142 ㅂ HANGUL LETTER PIEUP

  · voiceless or voiced lenis bilabial plosive consonant

3143 ㅃ HANGUL LETTER SSANGPIEUP

  · voiceless unaspirated glottalized bilabial plosive consonant

3145 ㅅ HANGUL LETTER SIOS

  · voiceless lenis alveolar fricative consonant

3146 ㅆ HANGUL LETTER SSANGSIOS

  · voiceless unaspirated glottalized alveolar fricative consonant

3147 ㅇ HANGUL LETTER IEUNG

- null sound as initial or velar nasal consonant as final

3148 ㅈ HANGUL LETTER CIEUC

- voiceless or voiced lenis alveolar affricate consonant

3149 ㅉ HANGUL LETTER SSANGCIEUC

- voiceless unaspirated glottalized alveolar affricate consonant

314A ㅊ HANGUL LETTER CHIEUCH

- voiceless aspirated alveolar affricate consonant

314B ㅋ HANGUL LETTER KHIEUKH

- voiceless aspirated velar plosive consonant

314C ㅌ HANGUL LETTER THIEUTH

- voiceless aspirated alveolar plosive consonant

314D ㅍ HANGUL LETTER PHIEUPH

- voiceless aspirated bilabial plosive consonant

314E ㅎ HANGUL LETTER HIEUH

- voiceless glottal fricative consonant

314F ㅏ HANGUL LETTER A

- unrounded open front/back vowel

3150 ㅐ HANGUL LETTER AE

  • unrounded open-mid front vowel

3151 ㅑ HANGUL LETTER YA

  • approximant plus unrounded open front or back vowel diphthong

3152 ㅒ HANGUL LETTER YAE

  • palatal approximant plus open-mid front vowel diphthong

3153 ㅓ HANGUL LETTER EO

  • unrounded open-mid back vowel

3154 ㅔ HANGUL LETTER E

  • unrounded close-mid front vowel

3155 ㅕ HANGUL LETTER YEO

  • palatal approximant plus unrounded open-mid back vowel diphthong

3156 ㅖ HANGUL LETTER YE

  • palatal approximant plus unrounded close-mid front vowel diphthong

3157 ㅗ HANGUL LETTER O

  • rounded close-mid back vowel

3158 ㅘ HANGUL LETTER WA

  • voiced labial-velar approximant plus unrounded open front/back vowel

3159 ㅙ HANGUL LETTER WAE

  • voiced labial-velar approximant plus unrounded open-mid front vowel

315A ㅚ HANGUL LETTER OE

· voiced labial-velar approximant plus unrounded close-mid front vowel diphthong or rounded close-mid front vowel

315B ㅛ HANGUL LETTER YO

· palatal approximant plus rounded close-mid back vowel diphthong

315C ㅜ HANGUL LETTER U

· rounded close back vowel

315D ㅝ HANGUL LETTER WEO

· voiced labial-velar approximant plus unrounded open-mid back vowel diphthong

315E ㅞ HANGUL LETTER WE

· voiced labial-velar approximant plus unrounded close-mid front vowel diphthong

315F ㅟ HANGUL LETTER WI

· voiced labial-palatal approximant or voiced labial-velar approximant plus unrounded close front vowel diphthong or rounded close front vowel

3160 ㅠ HANGUL LETTER YU

· palatal approximant plus rounded close back vowel diphthong

3161 ㅡ HANGUL LETTER EU

· unrounded close central or back vowel

3162 ᅴ HANGUL LETTER YI

- unrounded velar approximant plus unrounded close front vowel diphthong

3163 ᅵ HANGUL LETTER I

- unrounded close front vowel

3171 ㅱ HANGUL LETTER KAPYEOUNMIEUM

- voiced labial-velar approximant

3178 ㅸ HANGUL LETTER KAPYEOUNPIEUP

- voiced bilabial fricative consonant

3179 ㅹ HANGUL LETTER KAPYEOUNSSANGPIEUP

- voiceless labial-velar fricative consonant

317F △ HANGUL LETTER PANSIOS

- voiced alveolar fricative consonant

3180 ㅇㅇ HANGUL LETTER SSANGIEUNG

- glottal tense before some approximants or vowels

3181 ㆁ HANGUL LETTER YESIEUNG

- velar nasal consonant

3184 ㆄ HANGUL LETTER KAPYEOUNPHIEUPH

- voiceless bilabial fricative consonant

3185 ㅎㅎ HANGUL LETTER SSANGHIEUH

· voiceless glottalized velar fricative consonant

3186 ㆆ HANGUL LETTER YEORINHIEUH

· glottal stop consonant

318D · HANGUL LETTER ARAEA

· rounded open-mid back vowel

* * *

Template for comments and secretariat observations

Date: 2010-09-10	Document: **ISO/IEC CD 10646**

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
NO	4		ge	There are some unnecessary deviations from the ISO/IEC Directives regarding the presentation of terms and definitions; e.g. upper-case initial letter (term and definition) and the use of articles in the beginning of definitions.	Please conform to ISO/IEC Directives regarding the presentation of terms and definitions.	
NO		U+041A	te	Relating to the current text "LATIN CAPITAL LETTER ENG: • glyph may also have appearance of large form of the small letter". In Sami, the letter LATIN CAPITAL LETTER ENG (U+041A) can absolutely not have the appearance of a large form of the small letter. This seems to be in contrast to Mende (and IPA), and should be resolved with this revision. The only viable solution we see is to add another lower-case/upper-case pair, where the upper case shall have the appearance of a large form of the small letter. That is, for Sami we continue to use 014A and 014B, whereas for Mende (and IPA) there should be a new letter pair that will ensure the correct capital letter form. This is similar to what is done today with regard to to (Icelandic) eth (LATIN CAPITAL LETTER ETH - U+00D0) and Sami D with stroke (LATIN CAPITAL LETTER D WITH STROKE - U+0110), where the upper-case letter has the same form in both cases, but where the lower-case letter has a quite distinct form in the two cases (Icelandic: U+00F0, Sami: U+0111): where two different upper/lower case mappings are required, two separate pairs are needed. The character name "eng" is normally used for Sami; it is unknown to us whether this character name is appropriate for Mende. The current situation is quite frustrating to Sami users, and we would think also to writers of Mende and users of IPA (although upper case isn't normally used in IPA).		

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.

ISO electronic balloting commenting template/version 2001-10

	Date: 9/16/2010	Document: **SC 2 N 4146, ISO/IEC CD 10646 (3rd Ed.)**

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
US	Clause 25 Named UCS Sequence Identifiers	nusi.txt	T.1.	Add the following named sequences as requested by Sri Lanka.	The U.S. recommends the following three named sequences for Sinhala be added: SINHALA CONSONANT SIGN YANSAYA; 0DCA 200D 0DBA SINHALA CONSONANT SIGN RAKAARAANSAYA; 0DCA 200D 0DBB SINHALA CONSONANT SIGN REPAYA; 0DBB 0DCA 200D	
US		**Miao** (new)	T.2.a	The additional column is requested in order to accommodate character requests which are anticipated in the future.	a. The U.S. asks that an additional column (16F90-16F9F) be added to the Miao block so that it extends from 16F00 to 16F9F.	
US			T.2.b	The re-ordering is necessary because of the addition of new characters (see T.2.f.).	The U.S. requests the Miao characters be re-ordered as documented in N3877 (L2/10-302), but with the name changes as noted below.	
US			T.2.c.	The name changes requested in T.2.c, T.2.d, and T.2.e will make the names more consistent with names elsewhere in the UCS.	The U.S. recommends the names be changed from "MIAO LETTER" TO "MIAO VOWEL SIGN" for the characters in the range U+16F54 to 16F7E.	
US			T.2.d.		The U.S. requests the following name changes: from: 16F51 MIAO LETTER ASPIRATION 16F52 MIAO LETTER REFORMED VOICING 16F53 MIAO LETTER REFORMED ASPIRATION to : 16F51 MIAO SIGN ASPIRATION 16F52 MIAO SIGN REFORMED VOICING 16F53 MIAO SIGN REFORMED ASPIRATION	
US			T.2. e.		The U.S. requests the following name changes: from: 16F7D MIAO LETTER TONE RIGHT 16F7E MIAO LETTER TONE TOP RIGHT 16F7F MIAO LETTER TONE ABOVE	

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

ISO electronic balloting commenting template/version 2001-10

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
					16F80 MIAO LETTER TONE BELOW to (with new code points): 16F8F MIAO TONE RIGHT 16F90 MIAO TONE TOP RIGHT 16F91 MIAO TONE ABOVE 16F92 MIAO TONE BELOW	
US			T.2. f		The U.S. requests the following 5 new characters be added, with glyphs and properties as documented in N3877 (L2/10-302), but with name changes as noted below for 16F56 and 16F5B: 16F0C MIAO LETTER YI TTA 16F12 MIAO LETTER YI NNA 16F31 MIAO LETTER YI DZHA 16F56 MIAO VOWEL SIGN AHH 16F5B MIAO VOWEL SIGN WO.	
US		**Miscellaneous Symbols and Pictographs**	T.3.	The spelling with -EE is more common than POMMY. The spelling POMMEE will also prevent possible confusion with a derogatory term POMMY. Supporting documentation is provided in document N3884 (L2/10-305).	The U.S. requests the names of the following 3 characters be changed, to use the spelling "POMMEE" instead of "POMMY": 1F540 CIRCLED CROSS POMMEE 1F541 CROSS POMMEE WITH HALF-CIRCLE BELOW 1F542 CROSS POMMEE	
US		**Letterlike Symbols**	T.4.	The current name is a misnomer, as it doesn't describe the glyph (which is lowercase) or its function (Weierstrass elliptic function). A name alias will clarify the identity of this character.	The U.S. asks the following formal name alias be added to U+2118 SCRIPT CAPITAL P: "WEIERSTRASS ELLIPTIC FUNCTION."	
US	Clause 25 Named UCS Sequence Identifiers		T.5.	This change will prevent potential discrepancies between nusi.txt and NamedSequences.txt.	The US strongly prefers that the syntax for the data file containing the list of Named UCS Sequence Identifiers (nusi.txt) for 10646 maintain the same data format as the corresponding data file for the Unicode Character Database (NamedSequences.txt), or even that this data be	

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

ISO electronic balloting commenting template/version 2001-10

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
					maintained by normative reference to NamedSequences.txt, to prevent potential divergence between the two standards.	
					The notation for UCS Sequence Identifiers defined in Clause 6.6 is intended for use in descriptive text. In such descriptive text, an abbreviated format may be used, such as omitting the "U+" or the commas. Also, the use of angle brackets in such contexts is not problematical and helps in visual identification of the sequences. In data files, however, the notation may vary, and simpler formats that omit commas and angle brackets may be preferred. Omitting angle brackets simplifies data parsing and avoids conflicts with the use of angle brackets as part of the markup conventions for common markup languages such as HTML and XML. In binary-formatted data files the format for UCS Sequence Identifiers may be completely different.	
					Accordingly, the US NB requests that the documentation of the second field of nusi.txt be restored to the following: • 2nd UCS sequence: (<space>)* (hhhh|hhhhh|hhhhhh) (<space> (hhhh|hhhhh|hhhhhh))+	
					If necessary, a note can be added explaining why this format is used in the data file, and how it can be systematically related to the syntax format defined for UCS Sequence Identifiers in Clause 6.6.	

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

ISO electronic balloting commenting template/version 2001-10

| Template for comments and secretariat observations | | | | | Date: 9/16/2010 | Document: **SC 2 N 4146, ISO/IEC CD 10646 (3rd Ed.)** | |

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
US			T.6.			
US			T.7.			
US			T.8.			
US			T.9.			
US			T.2.			
US			T.2.			
US			T.2.			
US			T.2.			
US			T.2.			
US			T.2.			
US			T.2.			
US			T.2.			

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2   **Type of comment:**   **ge** = general   **te** = technical   **ed** = editorial
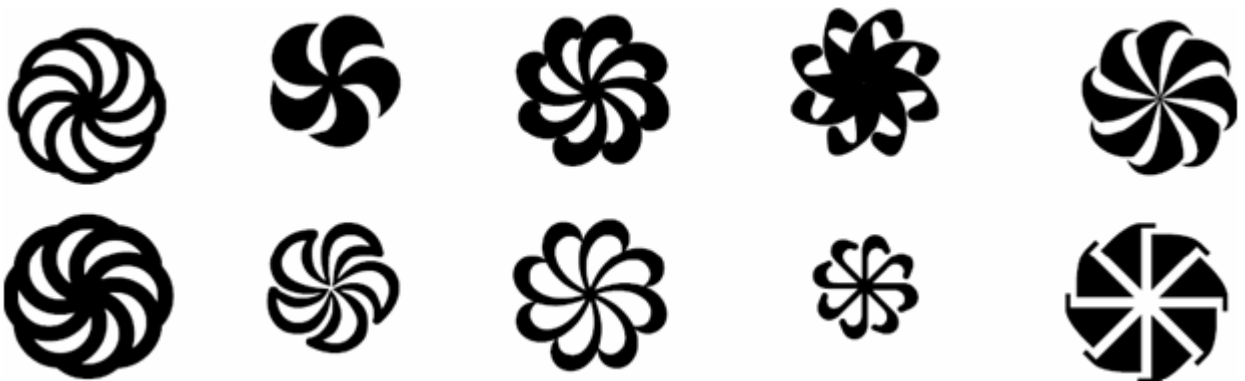**NOTE**   Columns 1, 2, 4, 5 are compulsory.

ISO electronic balloting commenting template/version 2001-10

Armenian Eternity Sign

SYMBOL	NAME	SHORT NAME, NICK	ASSUMED PLACE IN **UNICODE ISO 10646**
	ETERNITY SIGN	armeternity	***Dingbats*** Range 2700-27BF No proposed position Reason: the range is filled up

History

Armenian Eternity Sign is the ancient national symbol and in Armenian reality it can be met in many variations. The appearance of the Sign resembles both clockwise and anti-clockwise rotating ornament, which is composed with curves running from center of the symbol. As a rule the Sign should have eight curves, as this number stands for revival, rebirth and recurrence. However, the symbol may be represented with four and more curves as well.

Right and left rotations have accordingly active and passive meanings, as in case of Swastika, and are used in order to accentuate these meanings. For example, a cradle for a boy is decorated with the right whirling eternity sign and a cradle for a girl with the left whirling eternity sign.

It can be performed both two-dimensionally and three-dimensionally.

Eternity Sign opens the list of symbols included in ArmSCII[*] .

---

[*] Armenian Standard Code for Information Interchange, in http://en.wikipedia.org/wiki/ArmSCII

Armenian Symbol of Eternity is the direct descendent of the pre-historic Swastika and has clear Armenian interpretation. It symbolizes the identity of Armenian nation suchlike a David's star for Hebrews.

The earliest roots of round whirling sun-like symbols in the Armenian Highland are rock inscriptions from the Stone Age.

Ancient Armenian stone pictures (Stone Age)

In Armenia the eternity sign can be found everywhere, in architecture; on doors, walls and etc. The sign of Eternal Life, or turning wheel, was carved on numerous Khatchqar (Cross-Stones) and church walls in ancient Armenia.

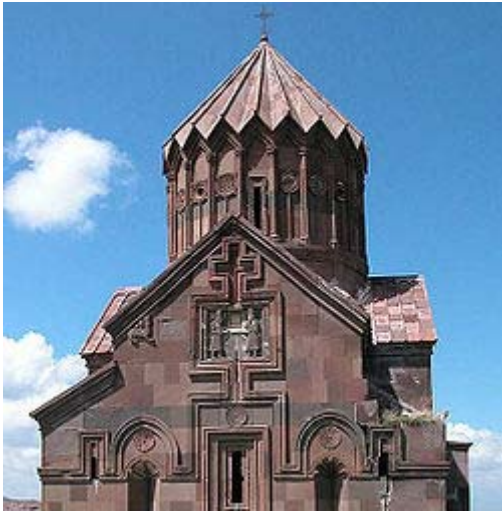**Yeghegnadzor Province**
The village of Martiros
Khatchqar built in 1499 AD

Vardenis
Dashkend
Khatchqar built in 1539 AD

The **Monastery of Harich** or **Harichavank,** 7th century, located near the village of Harich, Armenian

Besides the meaning that "Everything Armenian starts from the eternity sign", this sign has a punctuation function also: it is applied to divide a text into parts (chapters), as well as to design a text or a poem or to make references like an asterisk sign (∗).

Example

My Heart's In The Highlands ✠

❁

My heart's in the Highlands, my heart is not here,
My heart's in the Highlands a-chasing the deer -
A-chasing the wild deer, and following the roe;
My heart's in the Highlands, wherever I go.

❁

Farewell to the Highlands, farewell to the North
The birth place of Valour, the country of Worth;
Wherever I wander, wherever I rove,
The hills of the Highlands for ever I love.

❁

Farewell to the mountains high cover'd with snow;
Farewell to the Straths and green valleys below;
Farewell to the forests and wild-hanging woods;
Farwell to the torrents and loud-pouring floods.

❁

My heart's in the Highlands, my heart is not here,
My heart's in the Highlands a-chasing the deer
Chasing the wild deer, and following the roe;
My heart's in the Highlands, wherever I go.

✠   *Famous Armenian writer William Saroyan's poem by Robert Burns*

Armenia today, is arguably the only nation on earth where the Symbol of Eternity is a prominent and integral part of artistic expression and spiritual symbolism.

Irish comments on ISO/IEC CD 10646:2011
Reference: SC2 N4146
Closes: 2010-09-22
Date: 2010-09-21

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.

Most of our editorial comments involve requests to replace some of the chart fonts. either because the fonts presently used are of substandard design quality (such as the Malayalam) or in order to restore a uniformity of design to Latin and common punctuation and similar characters. Over the years glyphs have been taken from several different sources, chiefly from John Fiscella, from SIL, and from Michael Everson, and this has brought about a distinct difference in the shapes of many characters. We propose to replace existing chart fonts with those given below. Note that a similar replacement for Greek and Cyrillic fonts has already been completed. Sets like General Punctuation have been included here because Supplementary Punctuation uses slightly different glyphs. We believe that the glyphs we have proposed below should be generally acceptable, though we are willing to make modifications based on SC2 and UTC recommendations to any particular glyphs which prove problematic.

T1. **Page 263, Row 20A: Currency Symbols.** With reference to ISO/IEC JTC1/SC2/WG2 N3862 "Proposal to encode the INDIAN RUPEE SIGN in the UCS" and to ISO/IEC JTC1/SC2/WG2 N3887 "Proposal to encode the Indian Rupee Symbol in the UCS", Ireland requests that the character INDIAN RUPEE SIGN be added at U+20B9 with the glyph as shown in N3887.

T2. **Page 1063, Row A72: Latin Extended-D.** Ireland reiterates its support for the character being balloted at A78F, LATIN LETTER MIDDLE DOT. Ireland opposes the removal of A78F LATIN LETTER MIDDLE DOT from the CD. However, in order to prevent confusion, we suggest that the name be changed to LATIN LETTER GLOTTAL DOT, which reflects its use as a phonetic letter in transcriptions of Tangut and Chinese.

T3. **Page 1211, Row 109A: Meroitic Cursive.** Because of the appearance of a recent article by Jochen Hallof in *Beiträge zur Sudanforschung* vol. 10 (2009), entitled "Ein meroitisches Zahlenostrakon aus Qasr Ibrim", presenting Meroitic numbers from 1 up to 900,000, Ireland requests the removal of the Meroitic fractions and numbers from 109C0..109F0 pending further study.

T4. **Page 1234, Row 1168: Takri.** Ireland requests that the Takri block be moved to U+11300-1134F. While its current position is in accordance with the placement of Takri on the Roadmap, it has long been the practice to "front" scripts in their respective zones when they proved mature enough for encoding. This is a safer practice than just sticking with the Roadmap because the size of scripts may change. In fact, the current Roadmap lists Takri with six columns when in fact it has only five. We propose no other changes to the character names or glyphs.

T5. **Page 1275, Row 16F0: Miao.** With reference to ISO/IEC JTC1/SC2/WG2 N3877 "Proposal for encoding additional Miao characters in the SMP of the UCS", Ireland requests the addition of five characters:

ꀌ U+16F0C MIAO LETTER YI TTA
    • used in Hei Yi
ꀒ U+16F12 MIAO LETTER YI NNA
    • used in Hei Yi
ꀱ U+16F31 MIAO LETTER YI DZHA
    • used in Hei Yi
ꁖ U+16F56 MIAO LETTER AHH
    • used in Gan Yi
ꁛ U+16F5B MIAO LETTER WO
    • used in Hei Yi

The re-arranged code table is given below.

E1. **Page 59, Row 000: C0 Controls and Basic Latin**. Ireland recommends that a uniform Times-like font be used for the glyphs in this block.

E2. **Page 64, Row 008: C1 Controls and Latin-1 Supplement**. Ireland recommends that a uniform Times-like font be used for the glyphs in this block.

E3. **Page 69, Row 010: Latin Extended-A.** Ireland recommends that a uniform Times-like font be used for the glyphs in this block.

E4. **Page 74, Row 018: Latin Extended-B.** Ireland recommends that a uniform Times-like font be used for the glyphs in this block.

E5. **Page 80, Row 025: IPA Extensions.** Ireland recommends that a uniform Times-like font be used for the glyphs in this block.

E6. **Page 84, Row 02B: Spacing Modifier Letters.** Ireland recommends that a uniform Times-like font be used for the glyphs in this block.

E7. **Page 88, Row 030: Combining Diacritical Marks.** Ireland recommends that a uniform Times-like font be used for the glyphs in this block.

E8. **Page 130, Row 098: Bengali.** Ireland recommends that the rather inconsistent font used for Bengali be replaced with the one given in the table shown below. The font is the Akasha font, freely available under the GNU GPL licence.

E9. **Page 150, Row 0D0: Malayalam.** Ireland recommends that the rather inconsistent font used for Malayalam be replaced with the one given in the table shown below. This font is the Rachana font, freely available under the GNU GPL licence.

E10. **Page 153, Row 0D8: Sinhala.** Ireland recommends that the font used for Sinhala be replaced with the one given in the table shown below. This font has been supplied by the Sri Lankan standards body along with their proposal to add additional numbers to the UCS.

E11. **Page 242, Row 1E0: Latin Extended Additional.** Ireland recommends that a uniform Times-like font be used for the glyphs in this block.

E12. **Page 256, Row 200: General Punctuation.** Ireland recommends that a uniform Times-like font be used for the glyphs in this block.

E13. **Page 1147, Row FB0: Alphabetic Presentation Forms.** Ireland recommends that a uniform Times-like font be used for the seven Latin glyphs in this block.

E14. **Page 1232, Row 1118: Sharada.** Ireland recommends that the dotted boxes at U+111C2 and U+111C3 be changed to conform to the shape of the dotted boxes used elsewhere in the UCS.

	000	001	002	003	004	005	006	007
0	NUL 0000	DLE 0010	SP 0020	0 0030	@ 0040	P 0050	` 0060	p 0070
1	SOH 0001	DC1 0011	! 0021	1 0031	A 0041	Q 0051	a 0061	q 0071
2	STX 0002	DC2 0012	" 0022	2 0032	B 0042	R 0052	b 0062	r 0072
3	ETX 0003	DC3 0013	# 0023	3 0033	C 0043	S 0053	c 0063	s 0073
4	EOT 0004	DC4 0014	$ 0024	4 0034	D 0044	T 0054	d 0064	t 0074
5	ENQ 0005	NAK 0015	% 0025	5 0035	E 0045	U 0055	e 0065	u 0075
6	ACK 0006	SYN 0016	& 0026	6 0036	F 0046	V 0056	f 0066	v 0076
7	BEL 0007	ETB 0017	' 0027	7 0037	G 0047	W 0057	g 0067	w 0077
8	BS 0008	CAN 0018	(0028	8 0038	H 0048	X 0058	h 0068	x 0078
9	HT 0009	EM 0019	) 0029	9 0039	I 0049	Y 0059	i 0069	y 0079
A	LF 000A	SUB 001A	* 002A	: 003A	J 004A	Z 005A	j 006A	z 007A
B	VT 000B	ESC 001B	+ 002B	; 003B	K 004B	[005B	k 006B	{ 007B
C	FF 000C	FS 001C	, 002C	< 003C	L 004C	\ 005C	l 006C	| 007C
D	CR 000D	GS 001D	- 002D	= 003D	M 004D	] 005D	m 006D	} 007D
E	SO 000E	RS 001E	. 002E	> 003E	N 004E	^ 005E	n 006E	~ 007E
F	SI 000F	US 001F	/ 002F	? 003F	O 004F	_ 005F	o 006F	DEL 007F

	008	009	00A	00B	00C	00D	00E	00F
0	XXX 0080	DCS 0090	NB SP 00A0	○ 00B0	À 00C0	Ð 00D0	à 00E0	ð 00F0
1	XXX 0081	PU1 0091	¡ 00A1	± 00B1	Á 00C1	Ñ 00D1	á 00E1	ñ 00F1
2	BPH 0082	PU2 0092	¢ 00A2	² 00B2	Â 00C2	Ò 00D2	â 00E2	ò 00F2
3	NBH 0083	STS 0093	£ 00A3	³ 00B3	Ã 00C3	Ó 00D3	ã 00E3	ó 00F3
4	IND 0084	CCH 0094	¤ 00A4	´ 00B4	Ä 00C4	Ô 00D4	ä 00E4	ô 00F4
5	NEL 0085	MW 0095	¥ 00A5	µ 00B5	Å 00C5	Õ 00D5	å 00E5	õ 00F5
6	SSA 0086	SPA 0096	¦ 00A6	¶ 00B6	Æ 00C6	Ö 00D6	æ 00E6	ö 00F6
7	ESA 0087	EPA 0097	§ 00A7	· 00B7	Ç 00C7	× 00D7	ç 00E7	÷ 00F7
8	HTS 0088	SOS 0098	¨ 00A8	¸ 00B8	È 00C8	Ø 00D8	è 00E8	ø 00F8
9	HTJ 0089	XXX 0099	© 00A9	¹ 00B9	É 00C9	Ù 00D9	é 00E9	ù 00F9
A	VTS 008A	SCI 009A	ª 00AA	º 00BA	Ê 00CA	Ú 00DA	ê 00EA	ú 00FA
B	PLD 008B	CSI 009B	« 00AB	» 00BB	Ë 00CB	Û 00DB	ë 00EB	û 00FB
C	PLU 008C	ST 009C	¬ 00AC	¼ 00BC	Ì 00CC	Ü 00DC	ì 00EC	ü 00FC
D	RI 008D	OSC 009D	SHY 00AD	½ 00BD	Í 00CD	Ý 00DD	í 00ED	ý 00FD
E	SS2 008E	PM 009E	® 00AE	¾ 00BE	Î 00CE	Þ 00DE	î 00EE	þ 00FE
F	SS3 008F	APC 009F	¯ 00AF	¿ 00BF	Ï 00CF	ß 00DF	ï 00EF	ÿ 00FF

	010	011	012	013	014	015	016	017
0	Ā 0100	Đ 0110	Ġ 0120	İ 0130	ŀ 0140	Ő 0150	Š 0160	Ű 0170
1	ā 0101	đ 0111	ġ 0121	ı 0131	Ł 0141	ő 0151	š 0161	ű 0171
2	Ă 0102	Ē 0112	Ģ 0122	Ĳ 0132	ł 0142	Œ 0152	Ţ 0162	Ų 0172
3	ă 0103	ē 0113	ģ 0123	ĳ 0133	Ń 0143	œ 0153	ţ 0163	ų 0173
4	Ą 0104	Ĕ 0114	Ĥ 0124	Ĵ 0134	ń 0144	Ŕ 0154	Ť 0164	Ŵ 0174
5	ą 0105	ĕ 0115	ĥ 0125	ĵ 0135	Ņ 0145	ŕ 0155	ť 0165	ŵ 0175
6	Ć 0106	Ė 0116	Ħ 0126	Ķ 0136	ņ 0146	Ŗ 0156	Ŧ 0166	Ŷ 0176
7	ć 0107	ė 0117	ħ 0127	ķ 0137	Ň 0147	ŗ 0157	ŧ 0167	ŷ 0177
8	Ĉ 0108	Ę 0118	Ĩ 0128	ĸ 0138	ň 0148	Ř 0158	Ũ 0168	Ÿ 0178
9	ĉ 0109	ę 0119	ĩ 0129	Ĺ 0139	ʼn 0149	ř 0159	ũ 0169	Ź 0179
A	Ċ 010A	Ě 011A	Ī 012A	ĺ 013A	Ŋ 014A	Ś 015A	Ū 016A	ź 017A
B	ċ 010B	ě 011B	ī 012B	Ļ 013B	ŋ 014B	ś 015B	ū 016B	Ż 017B
C	Č 010C	Ĝ 011C	Ĭ 012C	ļ 013C	Ō 014C	Ŝ 015C	Ŭ 016C	ż 017C
D	č 010D	ĝ 011D	ĭ 012D	Ľ 013D	ō 014D	ŝ 015D	ŭ 016D	Ž 017D
E	Ď 010E	Ğ 011E	Į 012E	ľ 013E	Ŏ 014E	Ş 015E	Ů 016E	ž 017E
F	ď 010F	ğ 011F	į 012F	Ŀ 013F	ŏ 014F	ş 015F	ů 016F	ſ 017F

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	018	019	01A	01B	01C	01D	01E	01F	020	021	022	023	024
0	ƀ 0180	Ɛ 0190	Ơ 01A0	ư 01B0	ǀ 01C0	ǐ 01D0	Ǡ 01E0	ǰ 01F0	Ȁ 0200	Ȑ 0210	ŋ 0220	Ȱ 0230	ɀ 0240
1	Ɓ 0181	Ƒ 0191	ơ 01A1	Ʊ 01B1	ǁ 01C1	Ǒ 01D1	ǡ 01E1	DZ 01F1	ȁ 0201	ȑ 0211	ȡ 0221	ȱ 0231	Ɂ 0241
2	Ƃ 0182	ƒ 0192	Ƣ 01A2	Ʋ 01B2	ǂ 01C2	ǒ 01D2	Ǣ 01E2	Dz 01F2	Ȃ 0202	Ȓ 0212	Ȣ 0222	Ȳ 0232	ɂ 0242
3	ƃ 0183	Ɠ 0193	ƣ 01A3	Ƴ 01B3	ǃ 01C3	Ǔ 01D3	ǣ 01E3	dz 01F3	ȃ 0203	ȓ 0213	ȣ 0223	ȳ 0233	Ƀ 0243
4	ƄB 0184	Ɣ 0194	Ƥ 01A4	ƴ 01B4	DŽ 01C4	ǔ 01D4	Ǥ 01E4	Ǵ 01F4	Ȅ 0204	Ȕ 0214	Ȥ 0224	ȴ 0234	Ʉ 0244
5	ƅ 0185	ƕ 0195	ƥ 01A5	Ƶ 01B5	Dž 01C5	Ǖ 01D5	ǥ 01E5	ǵ 01F5	ȅ 0205	ȕ 0215	ȥ 0225	ȵ 0235	Ʌ 0245
6	Ɔ 0186	Ɩ 0196	Ʀ 01A6	ƶ 01B6	dž 01C6	ǖ 01D6	Ǧ 01E6	Ƕ 01F6	Ȇ 0206	Ȗ 0216	Ȧ 0226	ȶ 0236	Ɇ 0246
7	Ƈ 0187	Ɨ 0197	Ƨ 01A7	Ʒ 01B7	LJ 01C7	Ǘ 01D7	ǧ 01E7	Ƿ 01F7	ȇ 0207	ȗ 0217	ȧ 0227	ȷ 0237	ɇ 0247
8	ƈ 0188	Ƙ 0198	ƨ 01A8	Ƹ 01B8	Lj 01C8	ǘ 01D8	Ǩ 01E8	Ǹ 01F8	Ȉ 0208	Ș 0218	Ȩ 0228	ȸ 0238	Ɉ 0248
9	Ɖ 0189	ƙ 0199	Ʃ 01A9	ƹ 01B9	lj 01C9	Ǚ 01D9	ǩ 01E9	ǹ 01F9	ȉ 0209	ș 0219	ȩ 0229	ȹ 0239	ɉ 0249
A	Ɗ 018A	ƚ 019A	ƪ 01AA	ƺ 01BA	NJ 01CA	ǚ 01DA	Ǫ 01EA	Ǻ 01FA	Ȋ 020A	Ț 021A	Ȫ 022A	Ⱥ 023A	Ɋ 024A
B	Ƌ 018B	ƛ 019B	ƫ 01AB	ƻ 01BB	Nj 01CB	Ǜ 01DB	ǫ 01EB	ǻ 01FB	ȋ 020B	ț 021B	ȫ 022B	Ȼ 023B	ɋ 024B
C	ƌ 018C	Ɯ 019C	Ƭ 01AC	Ƽ 01BC	nj 01CC	ǜ 01DC	Ǭ 01EC	Ǽ 01FC	Ȍ 020C	Ȝ 021C	Ȭ 022C	ȼ 023C	Ɍ 024C
D	ƍ 018D	Ɲ 019D	ƭ 01AD	ƽ 01BD	Ǎ 01CD	ǝ 01DD	ǭ 01ED	ǽ 01FD	ȍ 020D	ȝ 021D	ȭ 022D	Ƚ 023D	ɍ 024D
E	Ǝ 018E	ƞ 019E	Ʈ 01AE	ƾ 01BE	ǎ 01CE	Ǟ 01DE	Ǯ 01EE	Ǿ 01FE	Ȏ 020E	Ȟ 021E	Ȯ 022E	Ⱦ 023E	Ɏ 024E
F	Ə 018F	Ɵ 019F	Ư 01AF	ƿ 01BF	Ǐ 01CF	ǟ 01DF	ǯ 01EF	ǿ 01FF	ȏ 020F	ȟ 021F	ȯ 022F	ȿ 023F	ɏ 024F

	025	026	027	028	029	02A
0	ɐ 0250	ɠ 0260	ɰ 0270	ʀ 0280	ʐ 0290	ʠ 02A0
1	ɑ 0251	ɡ 0261	ɱ 0271	ʁ 0281	ʑ 0291	ʡ 02A1
2	ɒ 0252	ɢ 0262	ɲ 0272	ʂ 0282	ʒ 0292	ʢ 02A2
3	ɓ 0253	ɣ 0263	ɳ 0273	ʃ 0283	ʓ 0293	ʣ 02A3
4	ɔ 0254	ɤ 0264	ɴ 0274	ʄ 0284	ʔ 0294	ʤ 02A4
5	ɕ 0255	ɥ 0265	ɵ 0275	ʅ 0285	ʕ 0295	ʥ 02A5
6	ɖ 0256	ɦ 0266	œ 0276	ʆ 0286	ʖ 0296	ʦ 02A6
7	ɗ 0257	ɧ 0267	ɷ 0277	ʇ 0287	ʗ 0297	ʧ 02A7
8	ə 0258	ɨ 0268	ɸ 0278	ʈ 0288	ʘ 0298	ʨ 02A8
9	ɘ 0259	ɩ 0269	ɹ 0279	ʉ 0289	ʙ 0299	ʩ 02A9
A	ɚ 025A	ɪ 026A	ɺ 027A	ʊ 028A	ʚ 029A	ʪ 02AA
B	ɛ 025B	ɫ 026B	ɻ 027B	ʋ 028B	ʛ 029B	ʫ 02AB
C	ɜ 025C	ɬ 026C	ɼ 027C	ʌ 028C	ʜ 029C	ʬ 02AC
D	ɝ 025D	ɭ 026D	ɽ 027D	ʍ 028D	ʝ 029D	ʭ 02AD
E	ɞ 025E	ɮ 026E	ɾ 027E	ʎ 028E	ʞ 029E	ʮ 02AE
F	ɟ 025F	ɯ 026F	ɿ 027F	ʏ 028F	ʟ 029F	ʯ 02AF

	02B	02C	02D	02E	02F
0	h 02B0	ʔ 02C0	(marks) 02D0	ɣ 02E0	ʌ 02F0
1	ɦ 02B1	ʕ 02C1	▾ 02D1	l 02E1	< 02F1
2	j 02B2	< 02C2	ʾ 02D2	s 02E2	> 02F2
3	r 02B3	> 02C3	ʿ 02D3	x 02E3	° 02F3
4	ɹ 02B4	ʌ 02C4	⊥ 02D4	ʕ 02E4	` 02F4
5	ɭ 02B5	v 02C5	⊤ 02D5	⌐ 02E5	`` 02F5
6	ʁ 02B6	^ 02C6	+ 02D6	⌐ 02E6	″ 02F6
7	w 02B7	ˇ 02C7	– 02D7	⊣ 02E7	~ 02F7
8	y 02B8	ˈ 02C8	˘ 02D8	⌐ 02E8	: 02F8
9	′ 02B9	ˉ 02C9	˙ 02D9	⌐ 02E9	Γ 02F9
A	″ 02BA	´ 02CA	° 02DA	⌐ 02EA	˥ 02FA
B	ʻ 02BB	` 02CB	˛ 02DB	⊦ 02EB	˩ 02FB
C	ʼ 02BC	ˌ 02CC	~ 02DC	ˇ 02EC	˩ 02FC
D	ʽ 02BD	ˍ 02CD	˝ 02DD	= 02ED	⎵ 02FD
E	ʾ 02BE	ˎ 02CE	˞ 02DE	ˮ 02EE	⎵ 02FE
F	ʿ 02BF	ˏ 02CF	× 02DF	ˇ 02EF	← 02FF
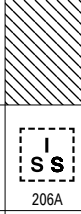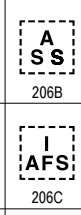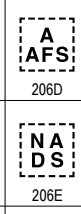
	030	031	032	033	034	035	036
0	0300	0310	0320	0330	0340	0350	0360
1	0301	0311	0321	0331	0341	0351	0361
2	0302	0312	0322	0332	0342	0352	0362
3	0303	0313	0323	0333	0343	0353	0363
4	0304	0314	0324	0334	0344	0354	0364
5	0305	0315	0325	0335	0345	0355	0365
6	0306	0316	0326	0336	0346	0356	0366
7	0307	0317	0327	0337	0347	0357	0367
8	0308	0318	0328	0338	0348	0358	0368
9	0309	0319	0329	0339	0349	0359	0369
A	030A	031A	032A	033A	034A	035A	036A
B	030B	031B	032B	033B	034B	035B	036B
C	030C	031C	032C	033C	034C	035C	036C
D	030D	031D	032D	033D	034D	035D	036D
E	030E	031E	032E	033E	034E	035E	036E
F	030F	031F	032F	033F	034F	035F	036F

	098	099	09A	09B	09C	09D	09E	09F
0		ঐ 0990	ঠ 09A0	র 09B0	ী 09C0		ৠ 09E0	ৰ 09F0
1	ঁ 0981		ড 09A1		ু 09C1		ৡ 09E1	ৱ 09F1
2	ং 0982		ঢ 09A2	ল 09B2	ূ 09C2		ৢ 09E2	৲ 09F2
3	ঃ 0983	ও 0993	ণ 09A3		ৃ 09C3		ৣ 09E3	৳ 09F3
4		ঔ 0994	ত 09A4		ৄ 09C4			৴ 09F4
5	অ 0985	ক 0995	থ 09A5					৵ 09F5
6	আ 0986	খ 0996	দ 09A6	শ 09B6			০ 09E6	৶ 09F6
7	ই 0987	গ 0997	ধ 09A7	ষ 09B7	ে 09C7	ৗ 09D7	১ 09E7	৷ 09F7
8	ঈ 0988	ঘ 0998	ন 09A8	স 09B8	ৈ 09C8		২ 09E8	৸ 09F8
9	উ 0989	ঙ 0999		হ 09B9			৩ 09E9	৹ 09F9
A	ঊ 098A	চ 099A	প 09AA				৪ 09EA	৺ 09FA
B	ঋ 098B	ছ 099B	ফ 09AB		ো 09CB		৫ 09EB	৻ 09FB
C	ঌ 098C	জ 099C	ব 09AC	় 09BC	ৌ 09CC	ড় 09DC	৬ 09EC	
D		ঝ 099D	ভ 09AD	ঽ 09BD	্ 09CD	ঢ় 09DD	৭ 09ED	
E		ঞ 099E	ম 09AE	া 09BE	ৎ 09CE		৮ 09EE	
F	এ 098F	ট 099F	য 09AF	ি 09BF		য় 09DF	৯ 09EF	

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	0D0	0D1	0D2	0D3	0D4	0D5	0D6	0D7
0		ഐ 0D10	ഠ 0D20	ര 0D30	ീ 0D40		ൠ 0D60	൰ 0D70
1			ഡ 0D21	റ 0D31	ു 0D41		ൡ 0D61	൱ 0D71
2	ം 0D02	ഒ 0D12	ഢ 0D22	ല 0D32	ൂ 0D42		ൢ 0D62	൲ 0D72
3	ഃ 0D03	ഓ 0D13	ണ 0D23	ള 0D33	ൃ 0D43		ൣ 0D63	൳ 0D73
4		ഔ 0D14	ത 0D24	ഴ 0D34	ൄ 0D44			൴ 0D74
5	അ 0D05	ക 0D15	ഥ 0D25	വ 0D35				൵ 0D75
6	ആ 0D06	ഖ 0D16	ദ 0D26	ശ 0D36	െ 0D46		൦ 0D66	
7	ഇ 0D07	ഗ 0D17	ധ 0D27	ഷ 0D37	േ 0D47	ൗ 0D57	൧ 0D67	
8	ഈ 0D08	ഘ 0D18	ന 0D28	സ 0D38	ൈ 0D48		൨ 0D68	
9	ഉ 0D09	ങ 0D19	ഩ 0D29	ഹ 0D39			൩ 0D69	൹ 0D79
A	ഊ 0D0A	ച 0D1A	പ 0D2A	ഺ 0D3A	ൊ 0D4A		൪ 0D6A	ൺ 0D7A
B	ഋ 0D0B	ഛ 0D1B	ഫ 0D2B		ോ 0D4B		൫ 0D6B	ൻ 0D7B
C	ഌ 0D0C	ജ 0D1C	ബ 0D2C		ൌ 0D4C		൬ 0D6C	ർ 0D7C
D		ഝ 0D1D	ഭ 0D2D	ഽ 0D3D	് 0D4D		൭ 0D6D	ൽ 0D7D
E	എ 0D0E	ഞ 0D1E	മ 0D2E	ാ 0D3E	ൎ 0D4E		൮ 0D6E	ൾ 0D7E
F	ഏ 0D0F	ട 0D1F	യ 0D2F	ി 0D3F			൯ 0D6F	ൿ 0D7F

	0D8	0D9	0DA	0DB	0DC	0DD	0DE	0DF
0		ඐ 0D90	ව 0DA0	ධ 0DB0	ච 0DC0	� 0DD0		
1		එ 0D91	ඡ 0DA1	න 0DB1	ශ 0DC1	ෑ 0DD1		
2	ං 0D82	ඒ 0D92	ජ 0DA2		ෂ 0DC2	ි 0DD2		ෲ 0DF2
3	ඃ 0D83	ඓ 0D93	ඣ 0DA3	ඳ 0DB3	ස 0DC3	ී 0DD3		ෳ 0DF3
4		ඔ 0D94	ඤ 0DA4	ප 0DB4	හ 0DC4	ු 0DD4		෴ 0DF4
5	අ 0D85	ඕ 0D95	ඥ 0DA5	ඵ 0DB5	ළ 0DC5			
6	ආ 0D86	ඖ 0D96	ඦ 0DA6	බ 0DB6	ෆ 0DC6	ූ 0DD6		
7	ඇ 0D87		ට 0DA7	භ 0DB7				
8	ඈ 0D88		ඨ 0DA8	ම 0DB8		ෘ 0DD8		
9	ඉ 0D89		ඩ 0DA9	ඹ 0DB9		ෙ 0DD9		
A	ඊ 0D8A	ක 0D9A	ඪ 0DAA	ය 0DBA	් 0DCA	ේ 0DDA		
B	උ 0D8B	ඛ 0D9B	ණ 0DAB	ර 0DBB		ෛ 0DDB		
C	ඌ 0D8C	ග 0D9C	ඬ 0DAC			ො 0DDC		
D	ඍ 0D8D	ඝ 0D9D	ත 0DAD	ල 0DBD		ෝ 0DDD		
E	ඎ 0D8E	ඞ 0D9E	ථ 0DAE			ෞ 0DDE		
F	ඏ 0D8F	ඟ 0D9F	ද 0DAF		ා 0DCF	ෟ 0DDF		

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	1E0	1E1	1E2	1E3	1E4	1E5	1E6	1E7	1E8	1E9	1EA	1EB	1EC	1ED	1EE	1EF
0	Ḁ 1E00	Ḍ 1E10	Ḡ 1E20	Ḱ 1E30	Ṁ 1E40	Ṑ 1E50	Ṡ 1E60	Ṱ 1E70	Ẁ 1E80	Ẑ 1E90	Ậ 1EA0	Ằ 1EB0	Ề 1EC0	Ố 1ED0	Õ 1EE0	Ự 1EF0
1	ḁ 1E01	ḑ 1E11	ḡ 1E21	ḱ 1E31	ṁ 1E41	ṑ 1E51	ṡ 1E61	ṱ 1E71	ẁ 1E81	ẑ 1E91	ậ 1EA1	ằ 1EB1	ề 1EC1	ố 1ED1	õ 1EE1	ự 1EF1
2	Ḃ 1E02	Ḓ 1E12	Ḣ 1E22	Ḳ 1E32	Ṃ 1E42	Ṓ 1E52	Ṣ 1E62	Ṳ 1E72	Ẃ 1E82	Ẓ 1E92	Ả 1EA2	Ẳ 1EB2	Ể 1EC2	Ồ 1ED2	Ợ 1EE2	Ỳ 1EF2
3	ḃ 1E03	ḓ 1E13	ḣ 1E23	ḳ 1E33	ṃ 1E43	ṓ 1E53	ṣ 1E63	ṳ 1E73	ẃ 1E83	ẓ 1E93	ả 1EA3	ẳ 1EB3	ể 1EC3	ồ 1ED3	ợ 1EE3	ỳ 1EF3
4	Ḅ 1E04	Ḕ 1E14	Ḥ 1E24	Ḵ 1E34	Ṅ 1E44	Ṕ 1E54	Ṥ 1E64	Ṵ 1E74	Ẅ 1E84	Ẕ 1E94	Ấ 1EA4	Ẵ 1EB4	Ễ 1EC4	Ổ 1ED4	Ụ 1EE4	Ỵ 1EF4
5	ḅ 1E05	ḕ 1E15	ḥ 1E25	ḵ 1E35	ṅ 1E45	ṕ 1E55	ṥ 1E65	ṵ 1E75	ẅ 1E85	ẕ 1E95	ấ 1EA5	ẵ 1EB5	ễ 1EC5	ổ 1ED5	ụ 1EE5	ỵ 1EF5
6	Ḇ 1E06	Ḗ 1E16	Ḧ 1E26	Ḷ 1E36	Ṇ 1E46	Ṗ 1E56	Š 1E66	Ṷ 1E76	Ẇ 1E86	ẖ 1E96	Ầ 1EA6	Ặ 1EB6	Ḝ 1EC6	Ỗ 1ED6	Ủ 1EE6	Ỷ 1EF6
7	ḇ 1E07	ḗ 1E17	ḧ 1E27	ḷ 1E37	ṇ 1E47	ṗ 1E57	š 1E67	ṷ 1E77	ẇ 1E87	ẗ 1E97	ầ 1EA7	ặ 1EB7	ḝ 1EC7	ỗ 1ED7	ủ 1EE7	ỷ 1EF7
8	Ḉ 1E08	Ḙ 1E18	Ḩ 1E28	Ḻ 1E38	Ṉ 1E48	Ṙ 1E58	Ṩ 1E68	Ṹ 1E78	Ẉ 1E88	ẘ 1E98	Ẩ 1EA8	Ḙ 1EB8	Ḛ 1EC8	Ộ 1ED8	Ứ 1EE8	Ỹ 1EF8
9	ḉ 1E09	ḙ 1E19	ḩ 1E29	ḻ 1E39	ṉ 1E49	ṙ 1E59	ṩ 1E69	ṹ 1E79	ẉ 1E89	ẙ 1E99	ẩ 1EA9	ẹ 1EB9	ẉ 1EC9	ộ 1ED9	ứ 1EE9	ỹ 1EF9
A	Ḋ 1E0A	Ḛ 1E1A	Ḫ 1E2A	Ḽ 1E3A	Ṋ 1E4A	Ṛ 1E5A	Ṫ 1E6A	Ü 1E7A	Ẋ 1E8A	ẚ 1E9A	Ẫ 1EAA	Ẻ 1EBA	Ị 1ECA	Ớ 1EDA	Ừ 1EEA	Ỻ 1EFA
B	ḋ 1E0B	ḛ 1E1B	ḫ 1E2B	ḽ 1E3B	ṋ 1E4B	ṛ 1E5B	ṫ 1E6B	ü 1E7B	ẋ 1E8B	ẛ 1E9B	ẫ 1EAB	ẻ 1EBB	ị 1ECB	ớ 1EDB	ừ 1EEB	ỻ 1EFB
C	Ḍ 1E0C	Ḝ 1E1C	Ḭ 1E2C	Ḽ 1E3C	Ṍ 1E4C	Ṝ 1E5C	Ṭ 1E6C	Ṽ 1E7C	Ẍ 1E8C	ƒ 1E9C	Ậ 1EAC	Ẽ 1EBC	Ọ 1ECC	Ờ 1EDC	Ử 1EEC	Ỽ 1EFC
D	ḍ 1E0D	ḝ 1E1D	ḭ 1E2D	ḽ 1E3D	ṍ 1E4D	ṝ 1E5D	ṭ 1E6D	ṽ 1E7D	ẍ 1E8D	ẝ 1E9D	ậ 1EAD	ẽ 1EBD	ọ 1ECD	ờ 1EDD	ử 1EED	ỽ 1EFD
E	Ḏ 1E0E	Ḟ 1E1E	Ḯ 1E2E	Ḿ 1E3E	Ṏ 1E4E	Ṟ 1E5E	Ṯ 1E6E	Ṿ 1E7E	Ẏ 1E8E	ẞ 1E9E	Ẳ 1EAE	Ế 1EBE	Ỏ 1ECE	Ở 1EDE	Ữ 1EEE	ỿ 1EFE
F	ḏ 1E0F	ḟ 1E1F	ḯ 1E2F	ḿ 1E3F	ṏ 1E4F	ṟ 1E5F	ṯ 1E6F	ṿ 1E7F	ẏ 1E8F	δ 1E9F	ẳ 1EAF	ế 1EBF	ở 1ECF	ở 1EDF	ữ 1EEF	ỿ 1EFF

	200	201	202	203	204	205	206
0	NQ SP 2000	‐ 2010	† 2020	‰ 2030	⌢ 2040	⌣ 2050	WJ 2060
1	MQ SP 2001	NB ‑ 2011	‡ 2021	‱ 2031	⁁ 2041	⁑ 2051	f() 2061
2	EN SP 2002	— 2012	• 2022	′ 2032	⁂ 2042	⁒ 2052	⨉ 2062
3	EM SP 2003	— 2013	▶ 2023	″ 2033	▪ 2043	⁓ 2053	, 2063
4	3/M SP 2004	─ 2014	‧ 2024	‴ 2034	⁄ 2044	⌢ 2054	+ 2064
5	4/M SP 2005	─ 2015	‥ 2025	‵ 2035	⁅ 2045	⁕ 2055	
6	6/M SP 2006	‖ 2016	… 2026	‶ 2036	⁆ 2046	⁖ 2056	
7	F SP 2007	‗ 2017	‧ 2027	‷ 2037	⁇ 2047	⁗ 2057	
8	P SP 2008	' 2018	L SEP 2028	⁀ 2038	⁈ 2048	⁘ 2058	
9	TH SP 2009	' 2019	P SEP 2029	‹ 2039	⁉ 2049	⁙ 2059	
A	H SP 200A	‚ 201A	LRE 202A	› 203A	⌐ 204A	⁚ 205A	I SS 206A
B	ZW SP 200B	‛ 201B	RLE 202B	⁻ 203B	℗ 204B	⁛ 205B	A SS 206B
C	ZW NJ 200C	" 201C	PDF 202C	‼ 203C	⁌ 204C	⁜ 205C	I AFS 206C
D	ZW J 200D	" 201D	LRO 202D	⁇ 203D	⁍ 204D	⁝ 205D	A AFS 206D
E	LRM 200E	„ 201E	RLO 202E	‾ 203E	⁎ 204E	⁞ 205E	NA DS 206E
F	RLM 200F	‟ 201F	NNB SP 202F	‿ 203F	⁏ 204F	MM SP 205F	NO DS 206F

	FB0	FB1	FB2	FB3	FB4
0	ff FB00		ע FB20	אֲ FB30	נּ FB40
1	fi FB01		א FB21	בּ FB31	ס FB41
2	fl FB02		ד FB22	גּ FB32	
3	ffi FB03	ﬔ FB13	ה FB23	דּ FB33	ףּ FB43
4	ffl FB04	ﬕ FB14	כ FB24	הּ FB34	פּ FB44
5	ft FB05	ﬖ FB15	ל FB25	וּ FB35	
6	st FB06	ﬗ FB16	ם FB26	זּ FB36	צּ FB46
7		ﬗ FB17	ר FB27		קּ FB47
8			ת FB28	טּ FB38	רּ FB48
9			⊥ FB29	יּ FB39	שׁ FB49
A			שׁ FB2A	ךּ FB3A	תּ FB4A
B			שׂ FB2B	כּ FB3B	וֹ FB4B
C			שּׁ FB2C	לּ FB3C	בֿ FB4C
D		? FB1D	שּׂ FB2D		כֿ FB4D
E		˘ FB1E	אַ FB2E	מּ FB3E	פֿ FB4E
F		יﬞ FB1F	אָ FB2F		ﭏ FB4F

	1118	1119	111A	111B	111C	111D
0	◌ͅ 11180	ੴ 11190	੩ 111A0	ਖ 111B0	◌ͤ 111C0	• 111D0
1	◌̇ 11181	ਕ 11191	ਥ 111A1	ਸ 111B1	੍ 111C1	੦ 111D1
2	◌ः 11182	ਪ 11192	ਟ 111A2	ਨ 111B2	[ਵ] 111C2	੭ 111D2
3	ਸ 11183	ਗ 11193	ਧ 111A3	◌ͦ 111B3	[ਬ] 111C3	੩ 111D3
4	ਸੁ 11184	ਘ 11194	ਨ 111A4	◌ͥ 111B4	◌ͤ 111C4	ਮ 111D4
5	◌̃ 11185	ਙ 11195	ਪ 111A5	◌ͨ 111B5	। 111C5	੫ 111D5
6	◌̈ 11186	ਜ 11196	ਫ 111A6	◌ͩ 111B6	॥ 111C6	੬ 111D6
7	੩ 11187	ਝ 11197	ਬ 111A7	◌ͮ 111B7	◆ 111C7	੭ 111D7
8	੩ 11188	ਞ 11198	ਭ 111A8	◌ͯ 111B8	ॢ 111C8	੩ 111D8
9	ੲ 11189	ਟ 11199	ਮ 111A9	◌ͺ 111B9	░	੯ 111D9
A	ੳ 1118A	ਠ 1119A	ਯ 111AA	◌ͻ 111BA	░	░
B	ੲ 1118B	ਡ 1119B	ਰ 111AB	◌ͼ 111BB	░	░
C	ੴ 1118C	੦ 1119C	ਲ 111AC	◌ͽ 111BC	░	░
D	ਧ 1118D	ਢ 1119D	ਸ 111AD	◌ͽ 111BD	░	░
E	ਧ 1118E	ਣ 1119E	ਵ 111AE	◌ͽ 111BE	░	░
F	ੲ 1118F	◌̃ 1119F	ਸ 111AF	◌ͽ 111BF	░	░

	1130	1131	1132	1133	1134
0	ळ 11300	ऋ 11310	५ 11320	◌ 11330	․ 11340
1	ऴ 11301	ॠ 11311	� 11321	◌ 11331	၈ 11341
2	৬ 11302	৯ 11312	ॠ 11322	◌̄ 11332	3 11342
3	৬ 11303	꠰ 11313	य 11323	◌꠹ 11333	३ 11343
4	৩ 11304	८ 11314	৶ 11324	◌̃ 11334	४ 11344
5	৪ 11305	ठ 11315	ल 11325	◌ 11335	५ 11346
6	८ 11306	३ 11316	५ 11326	◌ 11336	६ 11346
7	ॆ 11307	ॐ 11317	श 11327	◌ 11337	७ 11347
8	ॐ 11308	ॡ 11318	म 11328		८ 11348
9	ॡ 11309	३ 11319	३ 11329		९ 11349
A	४४ 1130A	ष 1131A	३३ 1132A		
B	५ 1130B	ॼ 1131B	◌ 1132B		
C	ॠ 1130C	ए 1131C	◌ः 1132C		
D	ॳ 1130D	ॽ 1131D	◌ 1132D		
E	३ॱ 1130E	प 1131E	◌ 1132E		
F	ॴ 1130F	६ 1131F	◌ 1132F		

	16F0	16F1	16F2	16F3	16F4	16F5	16F6	16F7	16F8	16F9
0	⌐ 16F00	C 16F10	⅃ 16F20	Ɛ 16F30	A 16F40	C 16F50	◌ᧇ 16F60	◌ℓ 16F70		◌ᵀ 16F90
1	⌐ 16F01	C 16F11	⅃ 16F21	Ⲅ 16F31	A 16F41	◌' 16F51	◌∩ 16F61	◌Ɔ 16F71		◌ᵀ 16F91
2	⌐ 16F02	C 16F12	⅃ 16F22	Ⲅ 16F32	U 16F42	◌' 16F52	◌∩ 16F62	◌ℓ 16F72		◌ᵀ 16F92
3	⌐ 16F03	∪ 16F13	Ϭ 16F23	J 16F33	Y 16F43	◌, 16F53	◌∩ 16F63	◌P 16F73		т 16F93
4	⊃ 16F04	Ⲥ 16F14	Ϭ 16F24	7 16F34	Ч 16F44	◌_ 16F54	◌∩ 16F64	◌ժ 16F74		ʒ 16F94
5	Ə 16F05	Ⲥ 16F15	Ϭ 16F25	R 16F35		◌∪ 16F55	◌Ⲟ 16F65	◌⌐ 16F75		ᴍ 16F95
6	∩ 16F06	L 16F16	⅂ 16F26	R 16F36		◌ᴃ 16F56	◌= 16F66	◌∩ 16F76		г 16F96
7	Г 16F07	Ⳑ 16F17	⁹ 16F27	† 16F37		◌ι 16F57	◌ᴍ 16F67	◌Γ 16F77		s 16F97
8	V 16F08	Ⳑ 16F18	I 16F28	ⴕ 16F38		◌ᴃ 16F58	◌∿ 16F68	◌Γ 16F78		L 16F98
9	V 16F09	Ⳡ 16F19	ⴖ 16F29	† 16F39		◌o 16F59	◌∩ 16F69	◌I 16F79		t 16F99
A	⊤ 16F0A	Δ 16F1A	⊥ 16F2A	S 16F3A		◌σ 16F5A	◌∪ 16F6A	◌ι 16F7A		∿ 16F9A
B	ⴔ 16F0B	Ⳃ 16F1B	⅃ 16F2B	Ƹ 16F3B		◌ϐ 16F5B	◌ᴜ 16F6B	◌ii 16F7B		ᴍ 16F9B
C	⊤ 16F0C	Ⳃ 16F1C	⊥ 16F2C	Ƹ 16F3C		◌ϧ 16F5C	◌ᴜ 16F6C	◌q 16F7C		ð 16F9C
D	⊤ 16F0D	Ⳃ 16F1D	Ɛ 16F2D	Λ 16F3D		◌c 16F5D	◌ᴜᴃ 16F6D	◌ι 16F7D		ρ 16F9D
E	⊥ 16F0E	⅃ 16F1E	Ɛ 16F2E	Λ 16F3E		◌ε 16F5E	◌ɯ 16F6E	◌ϧ 16F7E		ℓ 16F9E
F	ⴃ 16F0F	⅃ 16F1F	⊏ 16F2F	> 16F3F		◌ɛₒ 16F5F	◌ɯ 16F6F		◌ᵀ 16F8F	ɯ 16F9F