This document proposes to change the code chart font for 21 blocks—affecting 1,762 characters—that are CJK-related or otherwise include characters that are used primarily in CJK contexts and are therefore supported in fonts for typical CJK typefaces. The suggested target for this change is Unicode Version 14.0 (2021). The purpose of this font change is four-fold:

- **Reduce** the number of fonts that are necessary for code chart production.
- **Improve** the consistency of the glyphs for similar or related characters by using a uniform typeface design and typeface style, at least for characters whose glyphs do not need to adhere to a particular specification.
- **Simplify** code chart font management by covering as many complete blocks as possible using a single font.
- **Ensure** that the font is accessible via open source.

The actual font, *CJK Symbols*, will be open-sourced in both TrueType and OpenType/CFF formats under the terms of the *SIL Open Font License, Version 1.1*, and therefore can be updated to include glyphs for additional blocks, or to add glyphs to blocks that are already supported. This is maintenance work that I plan to take on for the foreseeable future.

**Code Tables**

This and subsequent pages include left-to-right, top-to-bottom code tables that serve as a glyph synopsis for the *CJK Symbols* font. Some of these code tables include a special note at the end that points out a peculiarity or specifies an action that needs to be taken for code chart production.

Of the 21 blocks that are covered, 19 are covered in their entirety as of the Unicode Version 13.0 repertoire. The two blocks that include only a subset of their characters have an appropriate note inked in red. Block names are inked in blue, and serve as links to the perpetually-current code charts.

**Code Chart Excerpts**

The final 21 pages of this proposal include the current—Unicode Version 13.0 BETA—code chart excerpts for the 21 affected blocks. These can be used to draw a comparison between the current representative glyphs with those offered in the *CJK Symbols* font.

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| U+02EB          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
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## Dingbats—only U+2776 through U+2793

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## CJK Symbols and Punctuation

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2
Special Note: The two-em tall glyphs for U+3031 VERTICAL KANA REPEAT MARK and U+3032 VERTICAL KANA REPEAT WITH VOICED SOUND MARK should fit in the code chart proper, but I recommend that they be given separate annotations, as shown below, so that their glyphs do not collide on the subsequent pages that show character names and other metadata:

implemented as a glyph that is two-em tall

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**Special Note:** The glyphs for this block are shown in superscript-style for consistency with the current code charts.

### Kanbun—Option B

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**Special Note:** The glyphs for this block are shown at full size to reflect current industry practice. The Core Specification text for the Kanbun block would need to be adjusted.
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### CJK Strokes

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### Katakana Phonetic Extensions

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### Enclosed CJK Letters and Months

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<td>項 休 写 正 上 中 下 左 右 医 宗 学 監 企 資 協</td>
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<td>1月 2月 3月 4月 5月 6月 7月 8月 9月 10月 11月 12月 Hg erg eV LTD</td>
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**Special Note:** The glyph for \( \text{U+327F} \) KOREAN STANDARD SYMBOL adheres to the specifications for that character.

### CJK Compatibility

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**Vertical Forms**

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**CJK Compatibility Forms**

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**Small Form Variants**

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**Halfwidth and Fullwidth Forms**

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### Special Note:
The glyphs for U+1F10D through U+1F10F and U+1F16D through U+1F16F adhere to the specifications for those characters.

#### Enclosed Ideographic Supplement

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2FF2  ideo  IDEOGRAPHIC DESCRIPTION CHARACTER LEFT TO MIDDLE AND RIGHT
2FF3  ideo  IDEOGRAPHIC DESCRIPTION CHARACTER ABOVE TO MIDDLE AND BELOW
2FF4  ideo  IDEOGRAPHIC DESCRIPTION CHARACTER FULL SURROUND
2FF5  ideo  IDEOGRAPHIC DESCRIPTION CHARACTER SURROUND FROM ABOVE
2FF6  ideo  IDEOGRAPHIC DESCRIPTION CHARACTER SURROUND FROM BELOW
2FF7  ideo  IDEOGRAPHIC DESCRIPTION CHARACTER SURROUND FROM LEFT
2FF8  ideo  IDEOGRAPHIC DESCRIPTION CHARACTER SURROUND FROM UPPER LEFT
2FF9  ideo  IDEOGRAPHIC DESCRIPTION CHARACTER SURROUND FROM UPPER RIGHT
2FFA  ideo  IDEOGRAPHIC DESCRIPTION CHARACTER SURROUND FROM LOWER LEFT
2FFB  ideo  IDEOGRAPHIC DESCRIPTION CHARACTER OVERLAID
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See also the Bopomofo Extended block. This script is also known as Zhuyin Fuhao.

**Based on GB 2312**

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- the vertical stroke form is considered a rendering variant.

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**Dialect (non-Mandarin) letters**

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**Miscellaneous additions**

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</table>
- for analytic representation of apical vowel.
| 312E  | ㄹ         | BOPOMOFO LETTER O WITH DOT ABOVE |
- early form of letter e.
| 312F  | ㄺ         | BOPOMOFO LETTER NN           |
- syllabic nasal.
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*DRAFT The Unicode Standard 13.0, Copyright © 1991-2019 Unicode, Inc. All rights reserved.*
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See also the Bopomofo block.

Extended Bopomofo for Minnan and Hakka

- 31A0 ㆠ BPOOMOFO LETTER BU
- 31A1 ㆡ BPOOMOFO LETTER ZI
- 31A2 ㆢ BPOOMOFO LETTER JI
- 31A3 ㆣ BPOOMOFO LETTER GU
- 31A4 ㆤ BPOOMOFO LETTER EE
- 31A5 ㆥ BPOOMOFO LETTER ENN
- 31A6 ㆦ BPOOMOFO LETTER OO
- 31A7 ㆧ BPOOMOFO LETTER ONN
- 31A8 ㆨ BPOOMOFO LETTER IR
- 31A9 ㆩ BPOOMOFO LETTER ANN
- 31AA ㆪ BPOOMOFO LETTER INN
- 31AB ㆫ BPOOMOFO LETTER UNN
- 31AC ㆬ BPOOMOFO LETTER IM
- 31AD ㆭ BPOOMOFO LETTER NGG
- 31AE ㆮ BPOOMOFO LETTER AINN
- 31AF ㆰ BPOOMOFO LETTER AUNN
- 31B0 ㆱ BPOOMOFO LETTER AM
- 31B1 ㆲ BPOOMOFO LETTER OM
- 31B2 ㆳ BPOOMOFO LETTER ONG
- 31B3 ㆴ BPOOMOFO LETTER INNN
- 31B4 ㆵ BPOOMOFO FINAL LETTER P
- 31B5 ㆶ BPOOMOFO FINAL LETTER T
- 31B6 ㆷ BPOOMOFO FINAL LETTER K
  * use of 31B8 ㆸ is preferred
- 31B7 ㆹ BPOOMOFO FINAL LETTER H

Extended Bopomofo for Hmu and Ge

- 31B8 ㆸ BPOOMOFO LETTER GH
- 31B9 ㆹ BPOOMOFO LETTER LH
- 31BA ㆺ BPOOMOFO LETTER ZY

Extended Bopomofo for Minnan and Hakka

- 31BB ㆻ BPOOMOFO FINAL LETTER G

Extended Bopomofo for Cantonese

- 31BC ㆼ BPOOMOFO LETTER GW
- 31BD ㆽ BPOOMOFO LETTER KW
- 31BE ㆾ BPOOMOFO LETTER OE
- 31BF ㆿ BPOOMOFO LETTER AH
### CJK Strokes

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These characters are compatibility characters needed to map to GB 18030.

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<td>PRESENTATION FORM FOR VERTICAL IDEOGRAPHIC FULL STOP</td>
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<td>PRESENTATION FORM FOR VERTICAL COLON</td>
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<td>PRESENTATION FORM FOR VERTICAL SEMICOLON</td>
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<td>PRESENTATION FORM FOR VERTICAL EXCLAMATION MARK</td>
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Glyphs for vertical variants:

- FE10 \PRESENTATION FORM FOR VERTICAL COMMA \rightarrow FE5O \small comma \approx \langle vertical\rangle 002C ,
- FE11 \PRESENTATION FORM FOR VERTICAL IDEOGRAPHIC COMMA \rightarrow FE45 \sesame dot \rightarrow FE51 \small ideographic comma \approx \langle vertical\rangle 3001 ,
- FE12 \PRESENTATION FORM FOR VERTICAL IDEOGRAPHIC FULL STOP \approx \langle vertical\rangle 3002 ,
- FE13 \PRESENTATION FORM FOR VERTICAL COLON \rightarrow FE55 \small colon \approx \langle vertical\rangle 003A :,
- FE14 \PRESENTATION FORM FOR VERTICAL SEMICOLON \rightarrow FE54 \small semicolon \approx \langle vertical\rangle 003B ;,
- FE15 \PRESENTATION FORM FOR VERTICAL EXCLAMATION MARK \rightarrow FE57 \small exclamation mark \approx \langle vertical\rangle 0021 !,
- FE16 \PRESENTATION FORM FOR VERTICAL QUESTION MARK \rightarrow FE56 \small question mark \approx \langle vertical\rangle 003F ?,
- FE17 \PRESENTATION FORM FOR VERTICAL LEFT WHITE LENTICULAR BRACKET \approx \langle vertical\rangle 3016 ﹛,
- FE18 \PRESENTATION FORM FOR VERTICAL RIGHT WHITE LENTICULAR BRACKET \times \PRESENTATION FORM FOR VERTICAL RIGHT WHITE LENTICULAR BRACKET \bullet misspelling of “BRACKET” in character name is a known defect \approx \langle vertical\rangle 3017 ﹜,
- FE19 \PRESENTATION FORM FOR VERTICAL HORIZONTAL ELLIPSIS \rightarrow 22EE \vertical ellipsis \approx \langle vertical\rangle 2026 …
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