

TrueType Font

Font familiar
because of its use
on PCs

Character Set

Language	Character Set	Total Characters
Japanese	JIS X 0208-1990 JIS X 0201 Half-width (158 characters) JIS X 0208 Non-Kanji (524 characters) JIS X 0208 Kanji Level 1 (2,965 characters), Kanji Level 2 (3,390 characters) Characters for vertical writing (53 characters)	7,090
	CP932 JIS X 0201 Half-width (158 characters) JIS X 0208 Non-Kanji (524 characters) JIS X 0208 Kanji Level 1 (2,965 characters), Kanji Level 2 (3,390 characters) NEC special (83 characters), NEC special IBM® extension (374 characters) IBM extension (388 characters) Characters for vertical writing (108 characters)	7,592
	CP932 + JIS X 0213:2004 CP932 (7,592 characters) JIS X 0213:2004 Non-Kanji (659 characters) JIS X 0213:2004 Kanji Level 3 (1,249 characters), Kanji Level 4 (2,436 characters) Characters for vertical writing (108 characters)	11,611
	CP932 + MacJapanese CP932 (7,592 characters) MacJapanese (Half-width; 161 characters) Apple non-standard character (249 characters) SQUARE ERA NAME REIWA (1 character) Characters for vertical writing (144 characters)	7,805
	CP932 + JIS X 0213:2004 + MacJapanese CP932 (7,592 characters) JIS X 0213:2004 Non-Kanji (659 characters) JIS X 0213:2004 Kanji Level 3 (1,249 characters), Kanji Level 4 (2,436 characters) MacJapanese (Half-width; 161 characters), Apple non-standard character (249 characters) SQUARE ERA NAME REIWA (1 character) Characters for vertical writing (189 characters)	11,797
	MS Mincho, MS Gothic for Windows® 8, 8.1, 10 CP932 (7,592 characters) JIS X 0212 and WGL4 (8,271 characters) JIS X 0213 Kanji Level 3, Kanji Level 4, ARIB non-standard character (5,107 characters) MacJapanese (Half-width; 161 characters), Apple non-standard character (249 characters) Characters for vertical writing (331 characters)	16,462
	ARIB STD-B24 JIS X 0201 Half-width (158 characters) JIS X 0208 Non-Kanji (524 characters) JIS X 0208 Kanji Level 1 (2,965 characters), Kanji Level 2 (3,390 characters) ARIB Additional code (394 characters), ARIB Additional Kanji (137 characters) Characters for vertical writing (58 characters)	7,626

The number of characters listed in the Character Set field also includes characters that correspond to multiple standards. Therefore, the total may be more than the number in the number-of-characters column.

Character Set

Language	Character Set	Total Characters
European languages	ISO 8859-1	191
	ISO 8859-2	191
	ISO 8859-5	191
	ISO 8859-7	188
	ISO 8859-9	191
	ISO 8859-15	191
	ISO 8859-1,2,5,7,9,15 Integrated set	425
	CP1252	219
	CP1250,CP1251,CP1252,CP1254 Integrated set	442
	CP1250,CP1251,CP1252,CP1253,CP1254,ISO 8859-1,2,5,7,9,15 Integrated set	444
Simplified Chinese characters	GB18030-2005 Mandatory part (Chinese government certification received)	28,522
Traditional Chinese characters	CP950 (Big5-1984, E-TEN, etc.)	13,598 (Including overlapping)
Korean	KS X 1001:2004 (without hanja) + KS X 1003-1993	3,434
Arabic	ISO 8859-6 (146 characters) + Additional characters (152 characters)	298
Thai	CP874 (192 characters) + Additional characters (2 characters)	194
Vietnamese	CP1258 (214 characters) + Additional characters (107 characters)	321
OCR	JIS X 9010:1984 OCR-B Basic (93 characters) + Additional characters (3 characters)	96
	JIS X 9010:1984 OCR-B Basic (93 characters), OCR-K (63 characters) + Additional characters (3 characters)	159
	JIS X 9006:1979 OCR-HN (Arabic numerals 10 characters) + Additional character (1 character)	11
Numeric characters	Numerals, Symbols for calculation by abacus	42
	JIS X 6302-1:2005	10
Barcode	CODE39 (JIS X 0503:2000 Barcode symbol code 39 basic specifications)	44
	CODE128 (JIS X 0504:2003 Barcode symbol code 128 basic specifications)	107
	NW-7 (JIS X 0506:2000 Barcode symbol codabar (NW-7))	24
	Postal office customer barcode (Postal office customer barcode basic specifications)	21

Our TrueType Font

MS Gothic and MS Mincho are fonts created by our company, but we have transferred their marketing rights to Microsoft Corporation so we handle fonts that correspond to those two fonts.

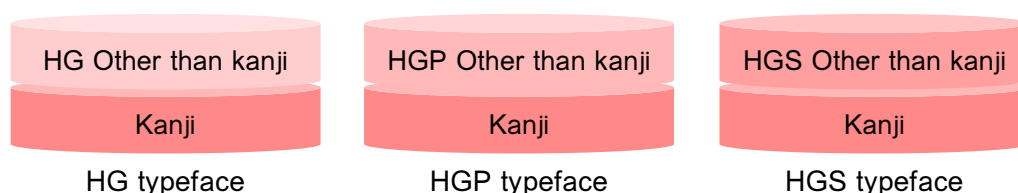
Fonts corresponding to MS Gothic	Fonts corresponding to MS Mincho
HG GothicB	HG MinchoL

The fonts included in Microsoft® Office are also created by our company.

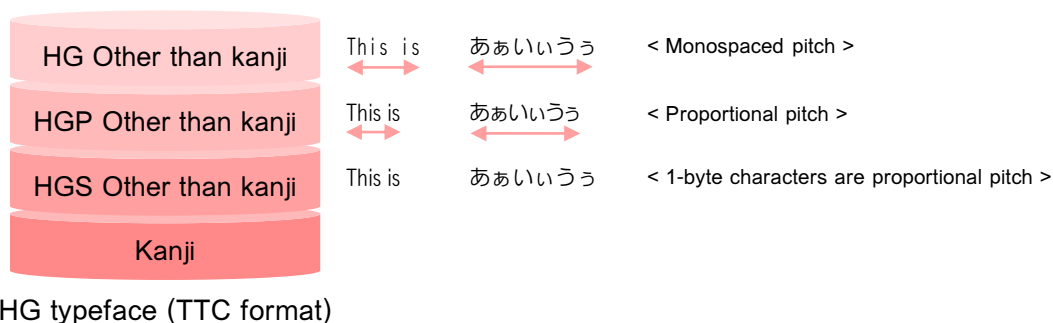
Fonts included in Microsoft® Office		
HG GothicM	HG GothicE	HG SoeiKakugothicUB
HG MaruGothicM-PRO	HG MinchoB	HG MinchoE
HG SoeiPresenceEB	HG SoeiKakupoptai	HG Gyoshotai
HG Seikaishotai-PRO	HG Kyokashotai	

Japanese font files include TTF format files and TTC format files.

TTF format 1 typeface = 1 file.



TTC format 1 file = multiple typefaces with kanji used in common.



Character width table

Typeface	1-byte character		2-byte character	
	Symbol, alphanumerical character (0x20-0x7E)	Katakana (0xA1-0xDF)	Non-kanji	Kanji
HG	Monospaced pitch Half-width	Monospaced pitch Half-width	Monospaced pitch Half-width	Monospaced pitch Half-width
HGP	Proportional pitch	Proportional pitch	Proportional pitch	Monospaced pitch Full-width
HGS	Proportional pitch	Proportional pitch	Monospaced pitch Full-width	Monospaced pitch Full-width
*-PRO	Proportional pitch	Monospaced pitch Half-width	Monospaced pitch Full-width	Monospaced pitch Full-width

Japanese

Gothic

	Character set	File size [KB]	
		TTF	TTC
HGNewGothicM UD font 愛の広がる美しいフォント	CP932 + MacJapanese	2,113	2,287
HGNewGothicB UD font 愛の広がる美しいフォント	CP932 + MacJapanese	2,100	2,274
HGGothicM Microsoft® Office included font 愛の広がる美しいフォント	CP932	—	2,803
	CP932 + MacJapanese	5,448	5,623
HGGothicB MS Gothic corresponding font 愛の広がる美しいフォント	Windows® 8、8.1、10	7,866	7,987
	CP932 + JIS X 0213:2004 + MacJapanese	3,488	3,694
HGGothicE Microsoft® Office included font 愛の広がる美しいフォント	CP932 + JIS X 0213:2004	—	3,785
	CP932 + JIS X 0213:2004 + MacJapanese	8,891	9,167
HGHeiseiKakugothictaiW3 愛の広がる美しいフォント	CP932 + MacJapanese	2,242	2,416
HGHeiseiKakugothictaiW5 愛の広がる美しいフォント	CP932 + MacJapanese	2,206	2,380
HGHeiseiKakugothictaiW7 愛の広がる美しいフォント	CP932 + MacJapanese	2,193	2,367
HGHeiseiKakugothictaiW9 愛の広がる美しいフォント	CP932 + MacJapanese	2,222	2,395
HGHeiseiKakugothictaiW9L 愛の広がる美しいフォント	CP932 + MacJapanese	2,665	—

Japanese

	Character set	File size [KB]	
		TTF	TTC
HGHeiseiKakugothictaiW9S 愛の広がる美しいフォント	CP932 + MacJapanese	2,642	—
HGHidemiHeiseiKakugoW9 愛の広がる美しいフォント	CP932 + MacJapanese	1,998	—
HGHidemiHeiseiKakugoW9L 愛の広がる美しいフォント	CP932 + MacJapanese	2,684	—
HGHidemiHeiseiKakugoW9S 愛の広がる美しいフォント	CP932 + MacJapanese	2,664	—
HGSoeiKakugothicL 愛の広がる美しいフォント	CP932 + MacJapanese	2,186	2,359
HGSoeiKakugothicUB Microsoft® Office included font 愛の広がる美しいフォント	CP932 + JIS X 0213:2004	—	3,303
	CP932 + JIS X 0213:2004 + MacJapanese	8,156	8,432
HGMetalKakugothicE 愛の広がる美しいフォント	CP932 + MacJapanese	5,529	5,702
HGINlainKakugothicH 愛の広がる美しいフォント	CP932 + MacJapanese	3,779	3,952
HGKasaneKakugothicH 愛の広がる美しいフォント	CP932 + MacJapanese	2,271	2,444
HGTEKakugothicU 愛の広がる美しいフォント	CP932 + MacJapanese	2,076	2,249
HGHappyGothicM 愛の広がる美しいフォント	CP932 + MacJapanese	2,115	—

Japanese

	Character set	File size [KB]	
		TTF	TTC
HGHappyGothicB 愛の広がる美しいフォント	CP932 + MacJapanese	1,979	—
HGHappyGothicE 愛の広がる美しいフォント	CP932 + MacJapanese	2,208	—
Round Gothic			
HGMarugothicL 愛の広がる美しいフォント	CP932 + MacJapanese	3,310	3,483
HGMarugothicM 愛の広がる美しいフォント	CP932 + MacJapanese	3,174	3,347
HGMarugothicM-PRO Microsoft® Office included font 愛の広がる美しいフォント	CP932 + JIS X 0213:2004	6,711	—
	CP932 + JIS X 0213:2004 + MacJapanese	10,176	—
HGMarugothicB 愛の広がる美しいフォント	CP932 + MacJapanese	3,096	3,269
HGHeiseiMarugothictaiW4 愛の広がる美しいフォント	CP932 + MacJapanese	3,191	3,364
HGHeiseiMarugothictaiW8 愛の広がる美しいフォント	CP932 + MacJapanese	4,298	4,471
HGHeiseiMarugothictaiW8L 愛の広がる美しいフォント	CP932 + MacJapanese	5,490	—
HGHeiseiMarugothictaiW8S 愛の広がる美しいフォント	CP932 + MacJapanese	5,435	—

Japanese

	Character set	File size [KB]	
		TTF	TTC
HGAkaneHeiseiMarugoW8 愛の広がる美しいフォント	CP932 + MacJapanese	3,911	—
HGAkaneHeiseiMarugoW8L 愛の広がる美しいフォント	CP932 + MacJapanese	5,493	—
HGAkaneHeiseiMarugoW8S 愛の広がる美しいフォント	CP932 + MacJapanese	5,439	—
HGReithic 愛の広がる美しいフォント	CP932 + MacJapanese	3,887	4,059
HGBouquet 愛の広がる美しいフォント	CP932 + MacJapanese	4,087	4,259
HGSoeiMarugothicL 愛の広がる美しいフォント	CP932 + MacJapanese	3,365	3,538
HGTEMarugothicU 愛の広がる美しいフォント	CP932 + MacJapanese	3,118	3,291
HGInlainMarugothicE 愛の広がる美しいフォント	CP932 + MacJapanese	5,447	5,620
HGkasaneMarugothicH 愛の広がる美しいフォント	CP932 + MacJapanese	3,558	—
HGKyapiMarugothicM 愛の広がる美しいフォント	CP932 + MacJapanese	2,889	—
HGKyapiMarugothicB 愛の広がる美しいフォント	CP932 + MacJapanese	2,821	—

Japanese

Mincho

	Character set	File size [KB]	
		TTF	TTC
HGMinchoL MS Mincho corresponding font 愛の広がる美しいフォント	Windows® 8、8.1、10	9,728	9,843
	CP932 + JIS X 0213:2004 + MacJapanese	4,807	5,014
HGMinchoB Microsoft® Office included font 愛の広がる美しいフォント	CP932	—	3,642
	CP932 + MacJapanese	6,091	6,265
HGMinchoE Microsoft® Office included font 愛の広がる美しいフォント	CP932 + JIS X 0213:2004	—	6,940
	CP932 + JIS X 0213:2004 + MacJapanese	10,415	10,690
HGHeiseiMinchotaiW3 愛の広がる美しいフォント	CP932 + MacJapanese	3,001	3,174
HGHeiseiMinchotaiW9 愛の広がる美しいフォント	CP932 + MacJapanese	3,226	3,399
HGHeiseiMinchotaiW9L 愛の広がる美しいフォント	CP932 + MacJapanese	3,983	—
HGHeiseiMinchotaiW9S 愛の広がる美しいフォント	CP932 + MacJapanese	3,870	—
HGSoeiPresenceEB Microsoft® Office included font 愛の広がる美しいフォント	CP932	—	2,655
	CP932 + MacJapanese	2,508	2,682
HGElegantHeiseiMinchotaiW3 愛の広がる美しいフォント	CP932 + MacJapanese	2,653	—

Japanese

Pop

	Character set	File size [KB]	
		TTF	TTC
HGSoeiKakupo tai Microsoft® Office included font 愛の広がる美しいフォント	CP932 + JIS X 0213:2004	—	3,605
	CP932 + JIS X 0213:2004 + MacJapanese	3,775	4,050
HGSoeiMarupo tai 愛の広がる美しいフォント	CP932 + MacJapanese	3,692	3,866
HGPrettyFrankH 愛の広がる美しいフォント	CP932 + MacJapanese	2,489	—
HGPrettyFrankHL 愛の広がる美しいフォント	CP932 + MacJapanese	3,359	—
HGPrettyFrankHS 愛の広がる美しいフォント	CP932 + MacJapanese	3,319	—

Brush Style

HGGyoshotai Microsoft® Office included font 愛の広がる美しいフォント	CP932	—	4,476
	CP932 + MacJapanese	4,613	4,787
HGSeikaishotai 愛の広がる美しいフォント	CP932 + MacJapanese	4,643	4,816
HGSeikaishotai-PRO Microsoft® Office included font 愛の広がる美しいフォント	CP932	4,100	—
	CP932 + MacJapanese	4,321	—
HGKaishotai 愛の広がる美しいフォント	CP932 + MacJapanese	4,650	4,823
HGKyokashotai Microsoft® Office included font 愛の広がる美しいフォント	CP932	—	4,645
	CP932 + MacJapanese	4,757	4,931

Japanese

	Character set	File size [KB]	
		TTF	TTC
HGHanKointai 愛の広がる美しいフォント	CP932 + MacJapanese	5,031	5,203
HGGyokoku 愛の広がる美しいフォント	CP932 + MacJapanese	3,999	4,171
HGSoeiFutokaishotai 愛の広がる美しいフォント	CP932 + MacJapanese	4,121	4,295
HGSoeiReishotai 愛の広がる美しいフォント	CP932 + MacJapanese	4,369	4,542
HGSoeiFutoReishotai 愛の広がる美しいフォント	CP932 + MacJapanese	4,379	4,552
HGSoeilorishotai 愛の広がる美しいフォント	CP932 + MacJapanese	4,552	4,725
HGArisawaKaishotai 愛の広がる美しいフォント	CP932 + MacJapanese	3,996	4,169
HGSyounanGyoshotai 愛の広がる美しいフォント	CP932 + MacJapanese	4,039	4,212
HGSyounGyoshotai 愛の広がる美しいフォント	CP932 + MacJapanese	4,129	4,302
HGTakahashiFudekaishotai 愛の広がる美しいフォント	CP932 + MacJapanese	3,475	—

Japanese

	Character set	File size [KB]	
		TTF	TTC
HGTakahashiReishotai 愛の広がる美しいフォント	CP932 + MacJapanese	2,899	—
HGHagoromoL 愛の広がる美しいフォント	CP932 + MacJapanese	4,921	—
HGHagoromoM 愛の広がる美しいフォント	CP932 + MacJapanese	4,922	—
HGHagoromoB 愛の広がる美しいフォント	CP932 + MacJapanese	4,745	—
HGHagoromoE 愛の広がる美しいフォント	CP932 + MacJapanese	4,696	—
HGKyokusuiM 愛の広がる美しいフォント	CP932 + MacJapanese	5,025	—
HGKyokusuiE 愛の広がる美しいフォント	CP932 + MacJapanese	4,873	—
HGKishimotoKaishotai 愛の広がる美しいフォント	CP932 + MacJapanese	4,158	4,331
HGSekiReishotai 愛の広がる美しいフォント	CP932 + MacJapanese	4,546	4,719
HGSekiEngeimoji 愛の広がる美しいフォント	CP932 + MacJapanese	4,519	—

Japanese

	Character set	File size [KB]	
		TTF	TTC
HGSumoumoji 愛の広がる美しいフォント	CP932 + MacJapanese	4,061	4,234
HGHigemoji 愛の広がる美しいフォント	CP932 + MacJapanese	8,124	8,297
HGKagoji 愛の広がる美しいフォント	CP932 + MacJapanese	4,530	4,703
HGOzawaKaishotai 愛の広がる美しいフォント	CP932 + MacJapanese	4,393	4,566
HGEdomojiKanteiryu 愛の広がる美しいフォント	CP932 + MacJapanese	4,468	4,641

Japanese

Pen writing

	Character set	File size [KB]	
		TTF	TTC
HGSoeiPenjitai 愛の広がる美しいフォント	CP932 + MacJapanese	4,023	4,196
HGSoeiBifutoPenjitai 愛の広がる美しいフォント	CP932 + MacJapanese	3,906	4,080
HGChibaPenjitai 愛の広がる美しいフォント	CP932 + MacJapanese	3,238	—

ARIB STD-B24

HGHeiseiKakugothictaiARW5 デ S 二 多 解 SS B N 交 映 無	ARIB STD-B24	1,901	—
HGHeiseiMarugothictaiARW4 デ S 二 多 解 SS B N 交 映 無	ARIB STD-B24	2,818	—
HGHeiseiMarugothictaiARW8 デ S 二 多 解 SS B N 交 映 無	ARIB STD-B24	3,794	—

European languages

	Character set	File size [KB]
HGTU Sans Medium Halfwidth	ISO 8859-1	22
Beautiful typeface	ISO 8859-2	34
HGTU Sans Medium	CP1250,1251,1252,1253,1254 ISO 8859-1,2,5,7,9,15 Integrated set	48
Beautiful typeface		
HGMR Sans Bold	ISO 8859-1	21
Beautiful typeface		
HGMR Serif Light	ISO 8859-1	30
Beautiful typeface		
HGUM Sans Medium Condensed UD font	CP1250,1251,1252,1254 Integrated set	36
Beautiful typeface		
HGUM Sans Medium UD font	CP1250,1251,1252,1254 Integrated set	44
Beautiful typeface		
HGUM Sans Medium Extended UD font	CP1250,1251,1252,1254 Integrated set	38
Beautiful typeface		
HGUM Sans Bold UD font	CP1250,1251,1252,1254 Integrated set	37
Beautiful typeface		
HGUM Sans Bold Extended UD font	CP1250,1251,1252,1254 Integrated set	37
Beautiful typeface		

Simplified Chinese characters

	Character set	File size [KB]
HGJHeiM Simplified 美丽的字体	GB18030-2005 (Mandatory part)	7,927

Chinese government
certification received

Traditional Chinese characters

HGJHeiM Traditional 美麗的字體	CP950	5,296
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Korean

HGNewGothicM Korean 아름다운 서체	UD font KS X 1001:2004 (without hanja) + KS X 1003-1993	462
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Arabic (Layout Engine required)

HG Naskh Medium محرف جميل	ISO 8859-6 + Additional characters	56
HG RTSans Arabic محرف جميل	ISO 8859-6 + Additional characters	35

Thai (Layout Engine required)

	Character set	File size [KB]
HG PhSans Thai Regular แบบอักษรที่สวยงาม	CP874 + Additional characters	33
HG PhSans Thai Medium แบบอักษรที่สวยงาม	CP874 + Additional characters	33
HG PhSans Thai DemiBold แบบอักษรที่สวยงาม	CP874 + Additional characters	33
HG PhSans Thai Bold แบบอักษรที่สวยงาม	CP874 + Additional characters	33
HG PhSans Thai UltraBold แบบอักษรที่สวยงาม	CP874 + Additional characters	33

Vietnamese (Layout Engine required)

HGUM Sans Viet Medium Condensed	UD font	CP1258 + Additional characters	37
Kiểu chữ đẹp			
HGUM Sans Viet Medium	UD font	CP1258 + Additional characters	38
Kiểu chữ đẹp			
HGUM Sans Viet Medium Extended	UD font	CP1258 + Additional characters	39
Kiểu chữ đẹp			
HGUM Sans Viet Bold	UD font	CP1258 + Additional characters	38
Kiểu chữ đẹp			
HGUM Sans Viet Bold Extended	UD font	CP1258 + Additional characters	38
Kiểu chữ đẹp			

OCR

	Character set	File size [KB]
HGOOCR-B 012345ABCDEabcde	JIS X 9010:1984 (OCR-B Basic) + Additional characters	11
HGOOCR-BK 012345ABCDEフォント	JIS X 9010:1984 (OCR-B Basic, OCR-K) + Additional characters	308
HGOOCR-HN 0123456789	JIS X 9006:1979 (OCR-HN) + Additional characters	11

Numeric characters

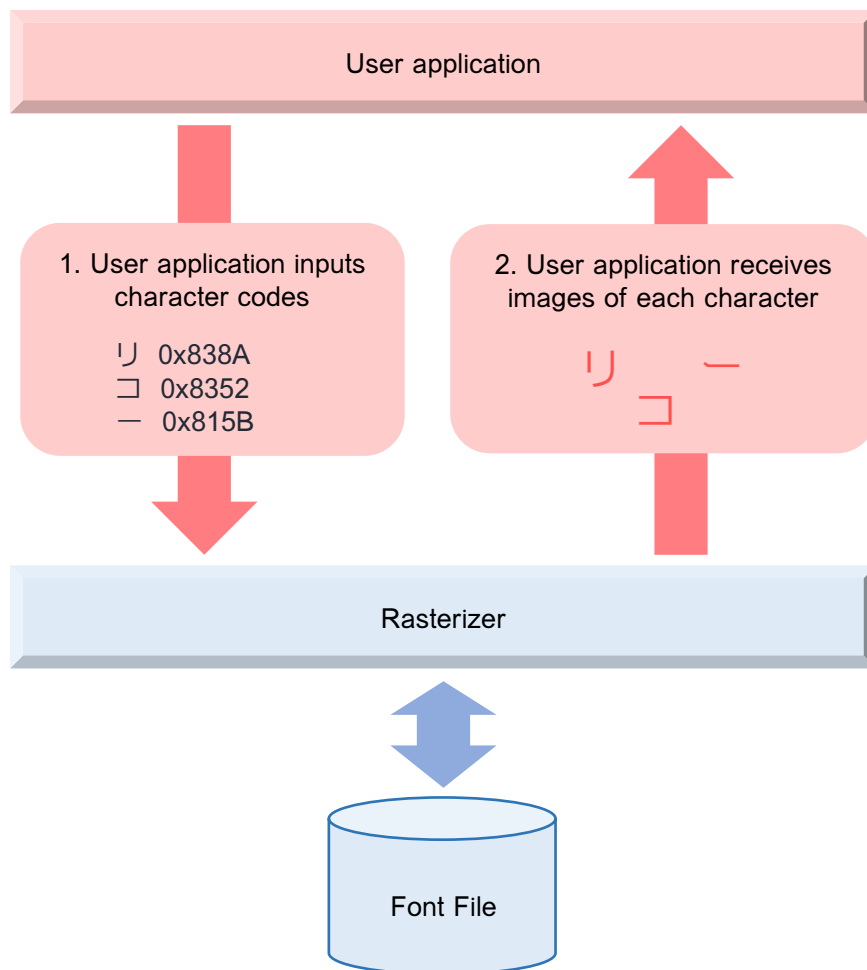
HGShuzanSuuji 0123456789#,.	Numerals, Symbols for calculation by abacus	303
HGFarrington 7B 0123456789	JIS X 6302-1:2005	6

Barcode

HGCODE39 	CODE39	7
HGCODE128 	CODE128	9
HGCODENW7 	NW-7	5
HGCODEPOS2 	Postal services customer barcode	4

Rasterizer (option)

With outline fonts (TrueType Fonts, etc.), characters cannot be displayed using the font file alone.
It is necessary to have rasterizer software that rasterizes the font data into character images.



When using an OS (Windows®, etc.)

Special action is not necessary since both the rasterizer and the Layout Engine are already embedded in the OS.

When using an embedded-font device without an OS

It is necessary to provide a rasterizer. (Depending on the language, the Layout Engine may also be necessary.)

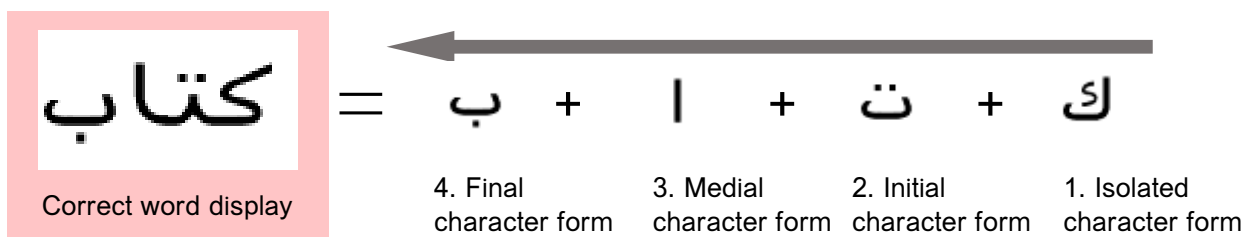
Layout Engine (option)

The Layout Engine puts individual character images in character strings. It can also do a variety of processing such as adjusting character and line spacing and rotating character strings. This software is necessary to correctly display languages with complex writing rules (Arabic, Thai, etc.).

<Arabic grammar rule processing example>

Input text character code string { 0643, 062A, 0627, 0628 }

		Final character form	Medial character form	Initial character form	Isolated character form
1. 0643	Convert to initial character form	ك	ك	ك	ك
2. 062A	Convert to medial character form	ت	ت	ت	ت
3. 0627	It is a medial position, but there is no medial character form definition, so allocate the final form	ا			ا
4. 0628	Since the previous character is final character form, next would be an initial-form character, but since there are no following characters, allocated character form	ب	ب	ب	ب



Ricoh's layout engine equips with Bidi (Bidirectional) Algorithm. It is a bidirectional algorithm.

When characters written left to right and characters written right to left are mixed together, there are ambiguities in the direction in which the characters should be displayed. For such cases, an algorithm defined in Unicode® is used to decide the display direction.

<Example mixing Arabic and English characters>

The writing direction of the text as a whole is the direction used by Arabic (right to left), but the numbers are written left to right.

إنجاز : 100%

The writing direction of the text as a whole is the direction used by European languages (left to right), but the portion containing Arabic characters is written right to left.

إنجاز.jpg

Ricoh's rasterizer and layout engine:

Since this is totally internally developed software, you do not have to worry about open-source license problems or quality assurance.

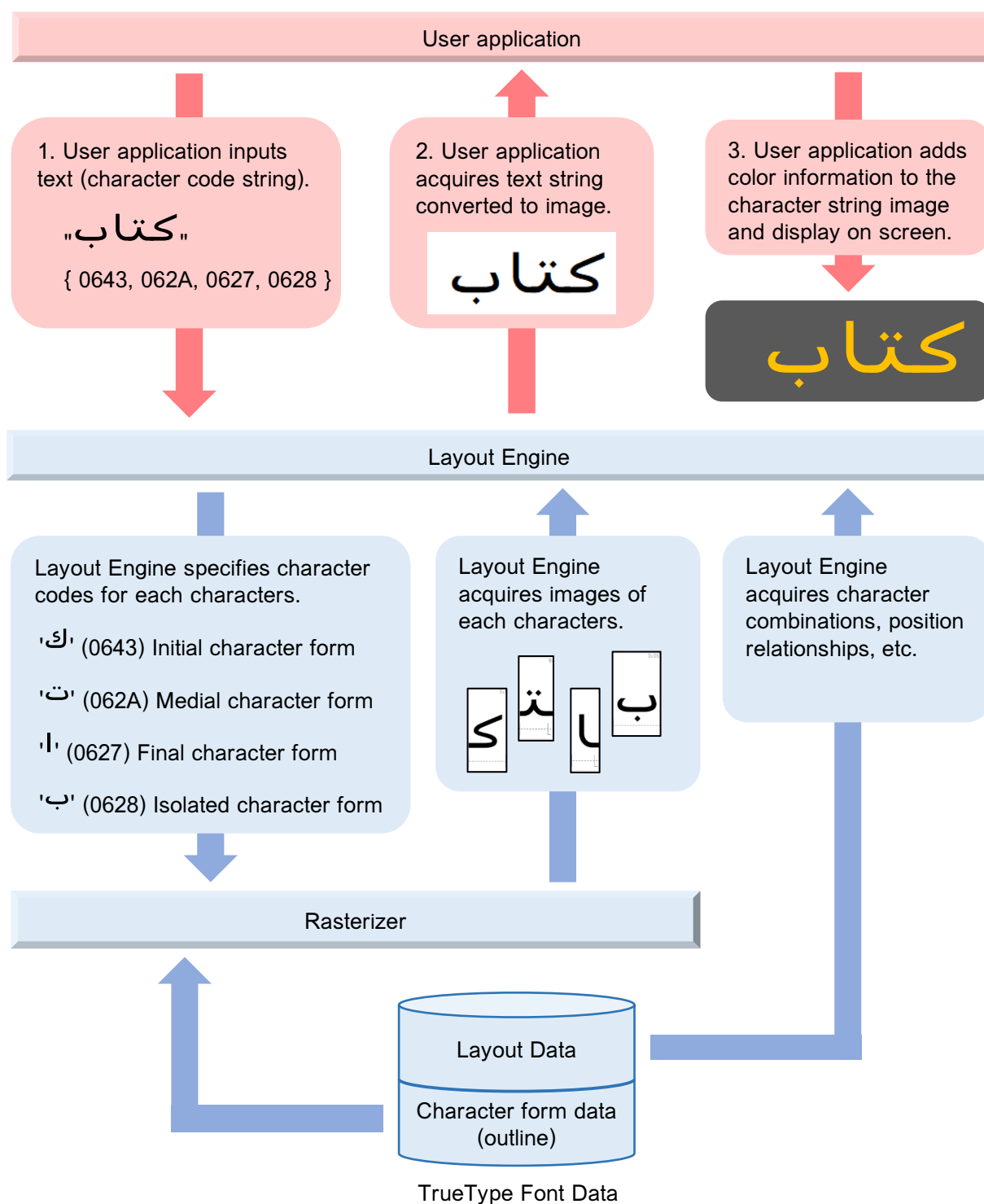
Since the source code is provided, you don't have to be concerned about the development environment or execution environment.

Layout Engine (option)

Program size

Rasterizer	36 [KB]
Layout engine	77 [KB]

Note: Varies depending on the environment where compiled.

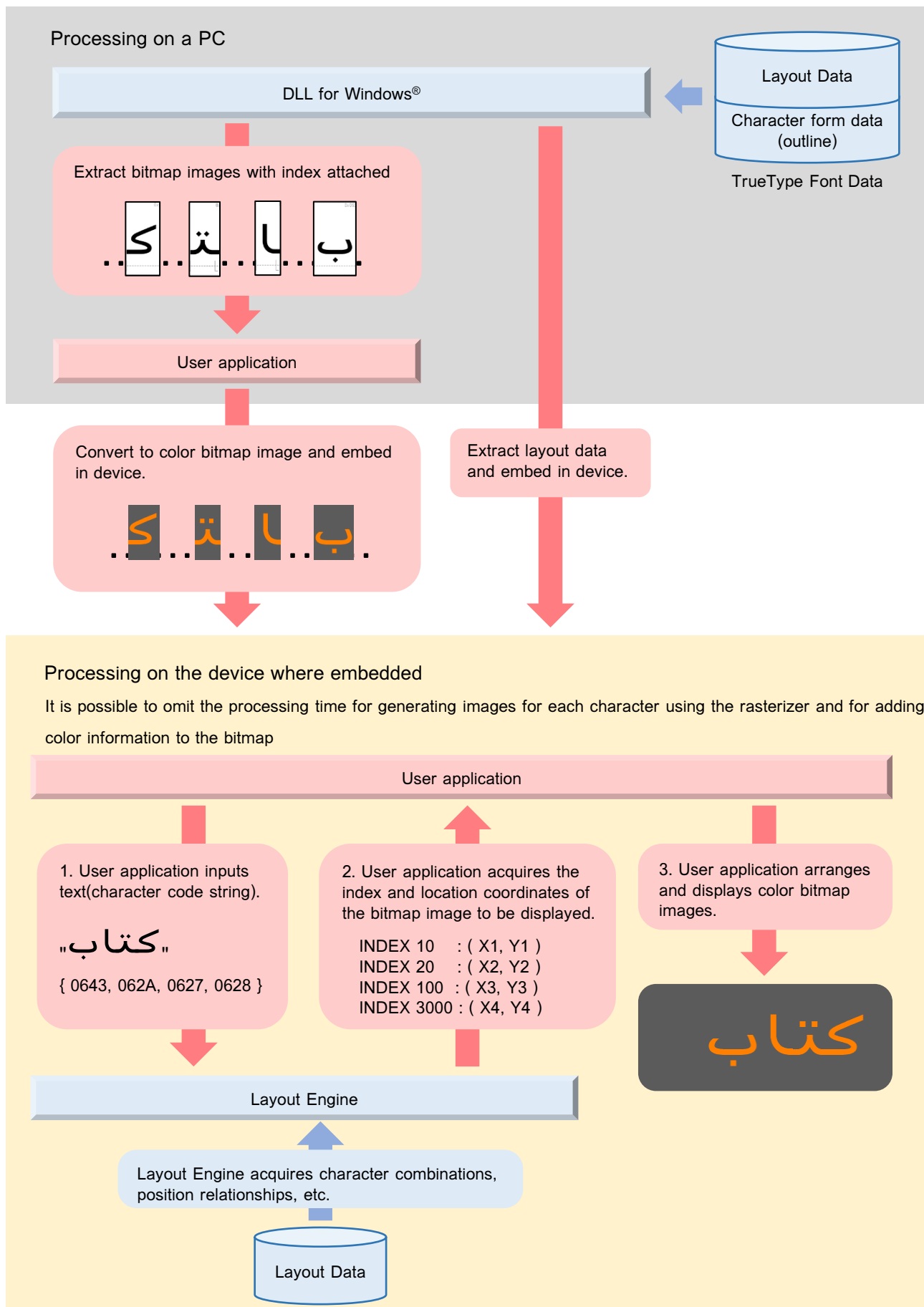


There is a possibility that third-party font files can be used with rasterizers and layout engines for TrueType Fonts. For more information, please use the free consultation. zjc_font@jp.ricoh.com

Layout Engine (option)

A configuration tailored for further increases in processing speed

The layout engine and a Windows®-use DLL are both available in configurations like those shown below. For more information, please use the free consultation. zjc_font@jp.ricoh.com



Customization

Requests such as those below can be handled with customization.

Handle requirements by creating characters

To change the character form

Example: Clearly differentiate the number zero and the letter o

Display characters using character forms from an old standard

$$0 \rightarrow \begin{matrix} \emptyset \\ \emptyset \end{matrix}$$

Old character forms

New character forms

葛辻鰯
葛辻鰯

To use characters not included in standard products

辺
邊邊邊邊邊

To use images and logos that have been converted into font data



Handle requirements by creating a user-defined character file

We will provide a font file containing only the user-defined characters (TTE format), or we will provide a font file (TTF or TTC format) with the user-defined characters added to a standard TrueType Font.

To use both characters that have duplicate character codes

To use both new and old character forms

To use characters to which character codes have not been assigned

Handle requirements through the Bitmap Font replacement

Very small characters, such as those of 10 or 12 dots, suffer from reduced clarity.

Having a Bitmap font for smaller sizes makes extremely small characters appear much clearer.

NOTE: Use of the bitmap replacement function requires adequate data volume for loading bitmap.

To ensure that characters do not become illegible even when small

TrueType Font

Replaced bitmap font

綺麗な文字

綺麗な文字



 綺麗な文字

綺麗な文字



RICOH Industrial Solutions Inc.

Font Section

3-2-3, Shin-Yokohama, Kouhoku-ku, Yokohama-shi, Kanagawa 222-8530, Japan

Free consultation

zjc_font@jp.ricoh.com

Web site

<https://industry.ricoh.com/en/font/>

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