

RT Font

Featuring minimum memory usage, RT Font designed for use in embedded systems is deal in terms of smooth contour and layout flexibility.

RT Font Features

★ Minimum Memory Usage

Major reduction in data volume made possible by means of a font definition method that combines a number of elements. For example, Japanese font (CP932/7990 characters) only requires a minimum of 361KB for installation.

NOTE: Data volume will vary in accordance with typeface.

★ Multi-languages Compatibility

RT Font is compatible with European languages including English and French as well as simplified and traditional Chinese Korean, Thai, Arabic, Hebrew, Vietnamese and Hindi.

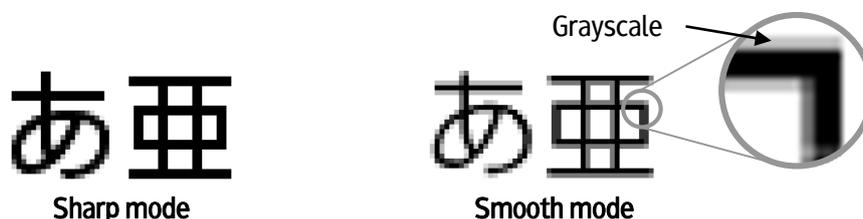
★ Style Function Support

RT Font supports a variety of style functions including grayscaling, bordering, rotation, italicization and font-weight adjustment.

★ Selectable Rendering

For straight lines, you can select "Sharp Mode" for non-grayscale rendering and "Smooth Mode" for grayscale rendering. Being able to switch rendering modes expands the scope of character expression and provides you with an option to consider a single implementation for application to various products.

NOTE: Mode selection is available for New Gothic typeface including Japanese and European languages. Only smooth mode is available for the other typefaces.



What Is the Element Font?

◇ Characters Structured by a Combination of Common Elements

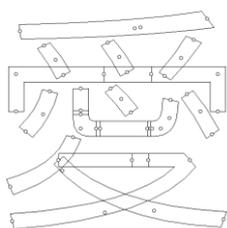
As represented by MS Mincho/MS Gothic, the structure of each letter or character in standard TrueType® font is completely outlined, tending towards larger data volume requirements.

Element System Font structures every character by combining elements which include vertical and horizontal lines as well as a "right stroke". Since every element is used in common with every character, data volume requirements are significantly reduced.



Comparison of Data Structure between RT Font and TrueType Font

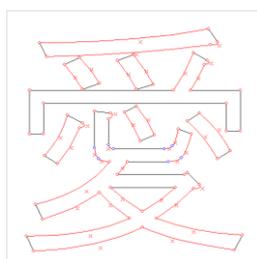
RT Font



All characters are created using only approximately 350–1,600 elements (Approx. 360–920KB)

*The number of elements differs depending on typeface

Common TrueType Font



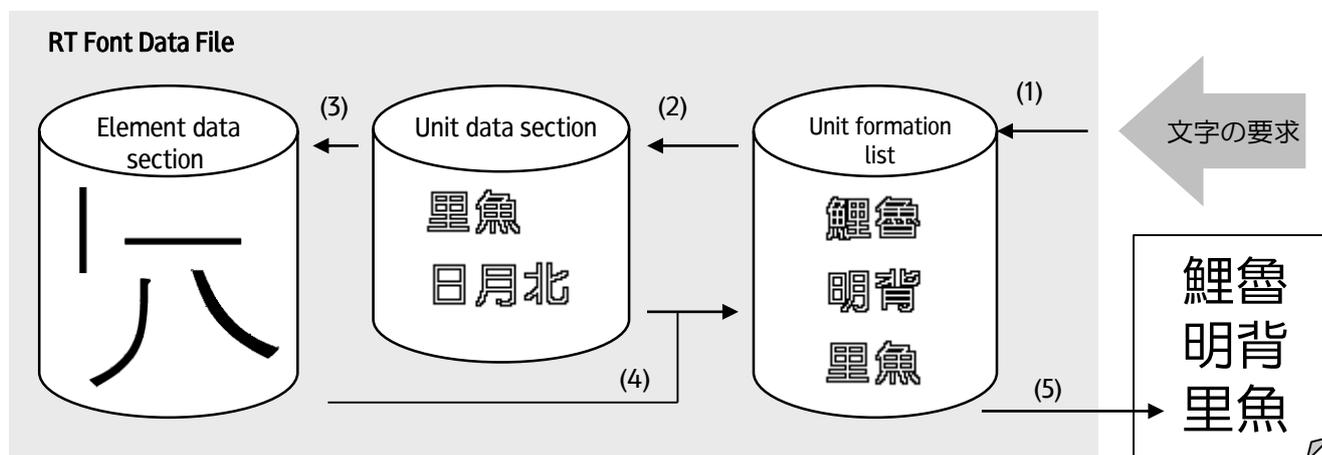
Requires storage of all information for all of approximately 8,000 characters (Approx. 3,000KB)

* The number of elements differs depending on typeface

◇ Rasterizer Outline

The requested character is rasterized to bitmap data in the following order:

- (1) Refers to the unit structure list for the specified character.
- (2) Refers to the unit data (The combination of the elements) used.
- (3) Refers to the element data used in the units.
- (4) Arranges the units and elements in accordance with the unit structure list.
- (5) Outputs the bitmap data after filling the elements.



Program volume of the rasterizer is approximately **52KB**. (It changes with compile situations.)

We have materials on rasterization speed and work memory capacity. Please ask us for the details.

Basic Functions

◇ Grayscale Display

Besides monochrome display, RT Font represents the characters more smoothly with the use of four- and sixteen-level grayscale display.

Monochrome	亜	唾	娃	阿	哀	愛	挨	始	逢	葵	あ	あ	い	い	う	う	え	え	お	お
	或	粟	拾	安	庵	按	暗	案	闇	鞍	た	だ	ち	ち	っ	っ	づ	て	で	と
	維	緯	胃	萎	衣	謂	違	遺	医	井	ぼ	ま	み	む	め	も	や	や	ゆ	ゆ
	飲	淫	胤	蔭	院	陰	隱	韻	吋	右	エ	オ	オ	カ	ガ	キ	ギ	ク	グ	ケ
	瓜	閨	噂	云	運	雲	荏	餌	叡	嘗	テ	テ	ト	ト	ナ	ニ	ヌ	ネ	ノ	ハ

↓ Grayscale

Four-level grayscale	亜	唾	娃	阿	哀	愛	挨	始	逢	葵	あ	あ	い	い	う	う	え	え	お	お
	或	粟	拾	安	庵	按	暗	案	闇	鞍	た	だ	ち	ち	っ	っ	づ	て	で	と
	維	緯	胃	萎	衣	謂	違	遺	医	井	ぼ	ま	み	む	め	も	や	や	ゆ	ゆ
	飲	淫	胤	蔭	院	陰	隱	韻	吋	右	エ	オ	オ	カ	ガ	キ	ギ	ク	グ	ケ
	瓜	閨	噂	云	運	雲	荏	餌	叡	嘗	テ	テ	ト	ト	ナ	ニ	ヌ	ネ	ノ	ハ

Sixteen-level grayscale	亜	唾	娃	阿	哀	愛	挨	始	逢	葵	あ	あ	い	い	う	う	え	え	お	お
	或	粟	拾	安	庵	按	暗	案	闇	鞍	た	だ	ち	ち	っ	っ	づ	て	で	と
	維	緯	胃	萎	衣	謂	違	遺	医	井	ぼ	ま	み	む	め	も	や	や	ゆ	ゆ
	飲	淫	胤	蔭	院	陰	隱	韻	吋	右	エ	オ	オ	カ	ガ	キ	ギ	ク	グ	ケ
	瓜	閨	噂	云	運	雲	荏	餌	叡	嘗	テ	テ	ト	ト	ナ	ニ	ヌ	ネ	ノ	ハ

◇ Bitmap Replacement for Ultra-small Size Display

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.

Example of bitmap replacement (12x12 dots)

<table border="1"> <tr><td>亜</td><td>唾</td><td>娃</td><td>阿</td><td>哀</td><td>愛</td><td>挨</td><td>始</td><td>逢</td><td>葵</td><td>茜</td><td>穉</td><td>蕙</td><td>濯</td></tr> <tr><td>杏</td><td>以</td><td>伊</td><td>位</td><td>依</td><td>偉</td><td>困</td><td>夷</td><td>委</td><td>威</td><td>尉</td><td>惟</td><td>意</td><td>慰</td></tr> <tr><td>茨</td><td>芋</td><td>弱</td><td>允</td><td>印</td><td>咽</td><td>員</td><td>因</td><td>姻</td><td>引</td><td>飲</td><td>淫</td><td>胤</td><td>蔭</td></tr> <tr><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td></tr> <tr><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td></tr> <tr><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td></tr> <tr><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td></tr> <tr><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td></tr> <tr><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td></tr> <tr><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td></tr> </table> <p>Grayscale display</p>	亜	唾	娃	阿	哀	愛	挨	始	逢	葵	茜	穉	蕙	濯	杏	以	伊	位	依	偉	困	夷	委	威	尉	惟	意	慰	茨	芋	弱	允	印	咽	員	因	姻	引	飲	淫	胤	蔭	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	<p>Bitmap Replacement</p>	<table border="1"> <tr><td>亜</td><td>唾</td><td>娃</td><td>阿</td><td>哀</td><td>愛</td><td>挨</td><td>始</td><td>逢</td><td>葵</td><td>茜</td><td>穉</td><td>蕙</td><td>濯</td></tr> <tr><td>杏</td><td>以</td><td>伊</td><td>位</td><td>依</td><td>偉</td><td>困</td><td>夷</td><td>委</td><td>威</td><td>尉</td><td>惟</td><td>意</td><td>慰</td></tr> <tr><td>茨</td><td>芋</td><td>弱</td><td>允</td><td>印</td><td>咽</td><td>員</td><td>因</td><td>姻</td><td>引</td><td>飲</td><td>淫</td><td>胤</td><td>蔭</td></tr> <tr><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td></tr> <tr><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td></tr> <tr><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td></tr> <tr><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td></tr> <tr><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td></tr> <tr><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td></tr> <tr><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td></tr> <tr><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td><td>院</td></tr> </table> <p>Bitmap display</p>	亜	唾	娃	阿	哀	愛	挨	始	逢	葵	茜	穉	蕙	濯	杏	以	伊	位	依	偉	困	夷	委	威	尉	惟	意	慰	茨	芋	弱	允	印	咽	員	因	姻	引	飲	淫	胤	蔭	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院	院
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NOTE: Use of the bitmap replacement function requires adequate data volume for loading bitmap.

Functions

NEW

◇ Font Cache

High-speed drawing is realized by holding the drawn character image in memory.
Cache volume can be set freely.

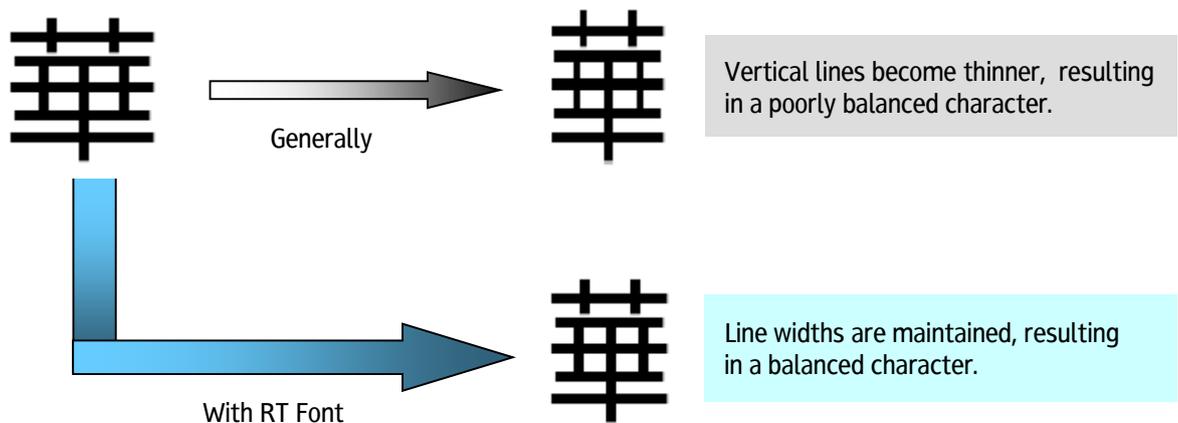
◇ Rendering Mode Selection

For straight lines, you can select both "Sharp Mode" without grayscale rendering and "Smooth Mode" with grayscale rendering.



◇ Vertical/Horizontal Arbitrary Multiplication (Sharp Mode only)

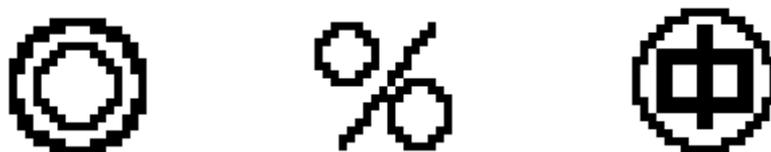
Ensures the design consistency of characters by maintaining the width balance of horizontal and vertical lines whether a character is displayed wide or narrow mode.



◇ Circle Drawing (Sharp Mode only)

In outline font (including TrueType font), it is difficult to accurately draw a circle, Low resolution may easily cause a circle to look warped.

RT Font is equipped with a circle drawing function to ensure an accurate representation.



Display example of 20 x 20 dots

Functions

Various functions are included with RT Font.

◇ Borders

A border may be added to the rasterized image of a character to enhance its affinity with the background color or image. Border widths can also be adjusted. The size of each sample characters shown below is 32 x 32 dots.

縁取り

袋文字

Border width: 1 dot

縁取り

袋文字

Border width: 2 dots

縁取り

袋文字

Border width: 3 dots

◇ Rotation

The rasterized image of a character can be rotated in increments of one degree. The size of each sample characters shown below is 32 x 32 dots.

あ ㄱ ㄴ ㄷ ㄹ ㅁ

◇ Oblique

The upper part of the rasterized image of a character may be slanted on a dot basis. The size of each sample characters shown below is 32 x 32 dots.

あ

あ

8 dots
slant

あ

16 dots
slant

あ

24 dots
slant

あ

32 dots
slant

◇ Weight Adjustment

Using just the data for a single font, the thickness of the line (weight value) can be adjusted.

Weight value can be selected from a scale of 1 to 9.

美しい
文字

Weight 1

美しい
文字

Weight 5

美しい
文字

Weight 9

Font Data

The following typeface and character types are available at RT Font.

Language	Character Set	Total characters	Character code (encoding)	Typeface (file size)
Japanese	CP932 – JIS X 0201 (Half-width: 158 characters) – JIS X 0208 (Non-Kanji: 524 characters) – JIS X 0208 (Kanji Level1: 2,965 characters) – JIS X 0208 (Kanji Level 2: 3,390 characters) – NEC special (83 characters) – NEC selected IBM® extension (374 characters) – IBM extension (388 characters) – Characters for vertical writing (108 characters)	7,990 (Including overlapping)	– Shift_JIS – Unicode® encoding (UTF-16)	– New Gothic (632KB) – New Round Gothic (686KB) – Gothic (361KB) – Round Gothic (366KB)
	CP932 + JIS X 0213 – CP932 (7,990 characters: Including overlapping) – JIS X 0213 (Non-kanji: 575 characters) *Of 659, addition from CP932 – JIS X 0213 (Kanji Level 3: 1,071 characters) *Of 1,259, addition from CP932 – JIS X 0213 (kanji Level 4: 2,348 characters) *Of 2,436, addition from CP932	11,984 (Including overlapping)	– Shift_JIS – Unicode encoding (UTF-16) In Shift_JIS, character set for CP932 only can be used.	– New Gothic (850KB) – New Round Gothic (908KB)
	ARIB STD-B24(6.1 version) – JIS X 0201 (Half-width: 158 characters) – JIS X 0208 (Non-kanji :524 characters) – JIS X 0208 (kanji Level 1: 2,965 characters) – JIS X 0208 (kanji Level 2: 3,390 characters) – ARIB additional code (394 characters) – ARIB additional code (137 characters) – Characters for vertical writing (58 characters)	7,626	– Shift_JIS – Unicode encoding (UTF-16)	– New Gothic (641KB) – New Round Gothic (701KB) – Gothic (383KB) – Round Gothic (389KB)

[NOTE]

- New Gothic and New round Gothic conformable to Universal Design (UD).
- All files shown at the above are for monospaced pitch.
The file sizes may differ according to the version.
- Gothic and Round Gothic does not support sharp mode.
- JIS X 0213
Both character forms of JIS X 0212:2000 and JIS X 0213:2004 are loaded in Font data and either can be selected by rasterizer.
- ARIB STD-B24(6.1 version) set
16 character forms of both JIS and ARIB are overlapped and either can be selected by rasterizer.
- Please feel free to contact us for specific character set choice (JIS X 208 Non-Kanji, only Level 1 etc.) character addition and change.

Font Data

The following typeface and character types are available at RT Font.

Language	Character Set	Total Characters	Character Code (encoding)	Typeface (file size)
European	CP1250 CP1251 CP1252 CP1253 CP1254 CP1257 ISO 8859-1,2,3,4,5, 7,9,10,13,14,15,16	527	- Unicode encoding (UTF-16) In the case of CP1252, ISO 8859-1, etc., Local code can be used.	- New Gothic (53 KB) Proportional
Simplified Chinese characters	GB2312-80 (Certified by the Chinese Government)	7,540	- GB - Unicode encoding (UTF-16)	- New Gothic (609KB) Monospaced
	GB18030-2005 Mandatory part (Certified by the Chinese Government)	28,522		NEW - New Gothic (1781KB) Monospaced - Gothic (1,672KB) Monospaced
Traditional Chinese characters	Big5-1984 + E-TEN	13,563 (Including overlapping)	- Big5 - Unicode encoding (UTF-16)	- New Gothic (996KB) Monospaced - Gothic (532KB) Monospaced
Korean	KS X 1001:2002 (Without hanja) + KS X 1003-1993	3,434	- KS(EUC-KR) - Unicode encoding (UTF-16)	- New Gothic (235KB) Monospaced - Gothic (245KB) Monospaced
Arabic	CP1256	223	- CP1256	- Sans serif (47KB) Proportional
	CP1256 + 137 characters (Supports Persian)	360	- Unicode encoding (UTF-16)	
Hebrew	CP1255	200	- CP1255	- Sans serif (52KB) Proportional
	CP1255 + 82 characters	282	- Unicode encoding (UTF-16)	
Thai	CP874	192	- CP874 - Unicode encoding (UTF-16)	- Sans serif (86KB) Proportional
Vietnamese	CP1258	214	- CP1258	- Sans serif (37KB) Proportional
	CP1258 + 104 characters	318	- Unicode encoding (UTF-16)	
Hindi	Unicode® Devanagari defined characters	155	- Unicode encoding (UTF-16)	- Sans serif (74KB) Proportional

[NOTE]

- New Gothic is conformable to Universal Design (UD).
- The file size may be different according to the version.
- Gothic does not support sharp mode.
- Please feel free to consult us for specific character set choice (like only CP1252 or ISO8859-1), character addition and change.

Sample

Language	Typeface	Sample
Japanese	New Gothic	リコー、ニューヨーク、ロンドンに続き シドニーに、100%自然エネルギーで点灯 する広告塔を設置
	New Round Gothic	リコー、ニューヨーク、ロンドンに続き シドニーに、100%自然エネルギーで点灯 する広告塔を設置
	Gothic	リコー、ニューヨーク、ロンドンに続き シドニーに、100%自然エネルギーで点灯 する広告塔を設置
	Round Gothic	リコー、ニューヨーク、ロンドンに続き シドニーに、100%自然エネルギーで点灯 する広告塔を設置
European	New Gothic	<p>–English– Ricoh Billboards, Lit by 100% Natural Energy, Installed in New York, in London, and now in Sydney</p> <p>–Russian– Рекламные щиты Ricoh с подсветкой за счет использования солнечной энергии установлены в Нью-Йорке, Лондоне и теперь в Сиднее</p> <p>–Greek– Υπαίθριοι διαφημιστικοί πίνακες της Ricoh, φωτιζόμενοι από 100% φυσική ενέργεια, στη Νέα Υόρκη, στο Λονδίνο και, τώρα, στο Σίδνεϊ</p> <p>–Turkish– %100 Doğal Enerji Aydınlatmalı Ricoh Panoları, New York ve Londra'dan sonra şimdi Sydney'de</p>

Sample

Language	Typeface	Sample
Simplified Chinese Characters	New Gothic	100% 自然能发光的 Ricoh 广告牌矗立在纽约、伦敦，现在出现在悉尼
	Gothic	100% 自然能发光的 Ricoh 广告牌矗立在纽约、伦敦，现在出现在悉尼
Traditional Chinese Characters	New Gothic	100% 以天然能源發光的 Ricoh 廣告牌矗立在紐約、倫敦，現在出現在雪梨
	Gothic	100% 以天然能源發光的 Ricoh 廣告牌矗立在紐約、倫敦，現在出現在雪梨
Korean	New Gothic	100% 자연 에너지를 이용하는 Ricoh 광고 판, 뉴욕과 런던에 이어 시드니에도 설치
	Gothic	100% 자연 에너지를 이용하는 Ricoh 광고 판, 뉴욕과 런던에 이어 시드니에도 설치
Arabic	Sans serif	لوحات Ricoh الإعلان مضاء بالطاقة الطبيعية الصرفة 100% ومنصوبة في نيويورك ولندن والآن في سيدني
Hebrew	Sans serif	שלטי החוצות של חברת Ricoh - המוארים באמצעו 100% אנרגיה טבעית - כבר מותקנים בניו-יורק, בלונדון, ועכשיו גם בסידני
Thai	Sans serif	ป้ายโฆษณาของ Ricoh ใช้พลังงานแสงอาทิตย์ 100% ติดตั้งในนิวยอร์ก ลอนดอน และปัจจุบันในซิดนีย์
Vietnamese	Sans serif	Bảng Quảng Cáo Ricoh, Chiếu Sáng 100% Bằng Năng Lượng Tự Nhiên, Đã Được Lắp Đặt Ở New York, London, và Giờ Đây Ở Sydney
Hindi	Sans serif	Ricoh बिलबोर्ड, 100 प्रतिशत प्राकृतिक ऊर्जा द्वारा प्रज्वलित, न्यू यॉर्क में, लन्दन में संस्थापित, और अब सिडनी में

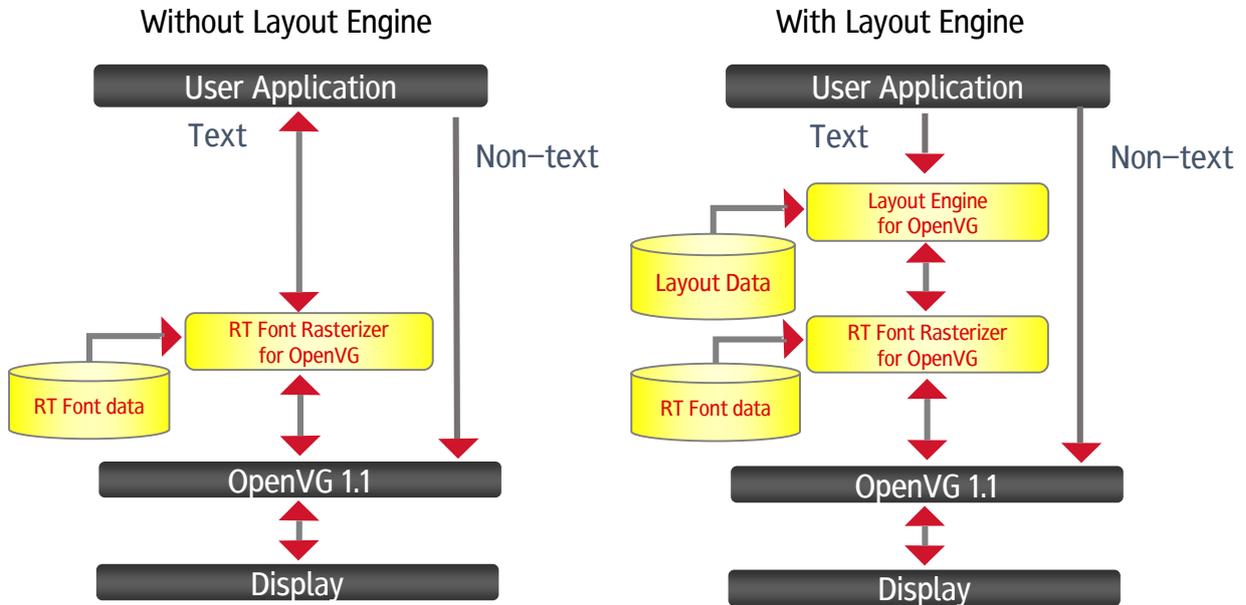
NOTE:

"Layout Engine", a software is an indispensable tool for properly communicating text content in Arabic, Hebrew, Thai, Vietnamese and Hindi with complex grammar rules.

Option : RT Font for OpenVG™

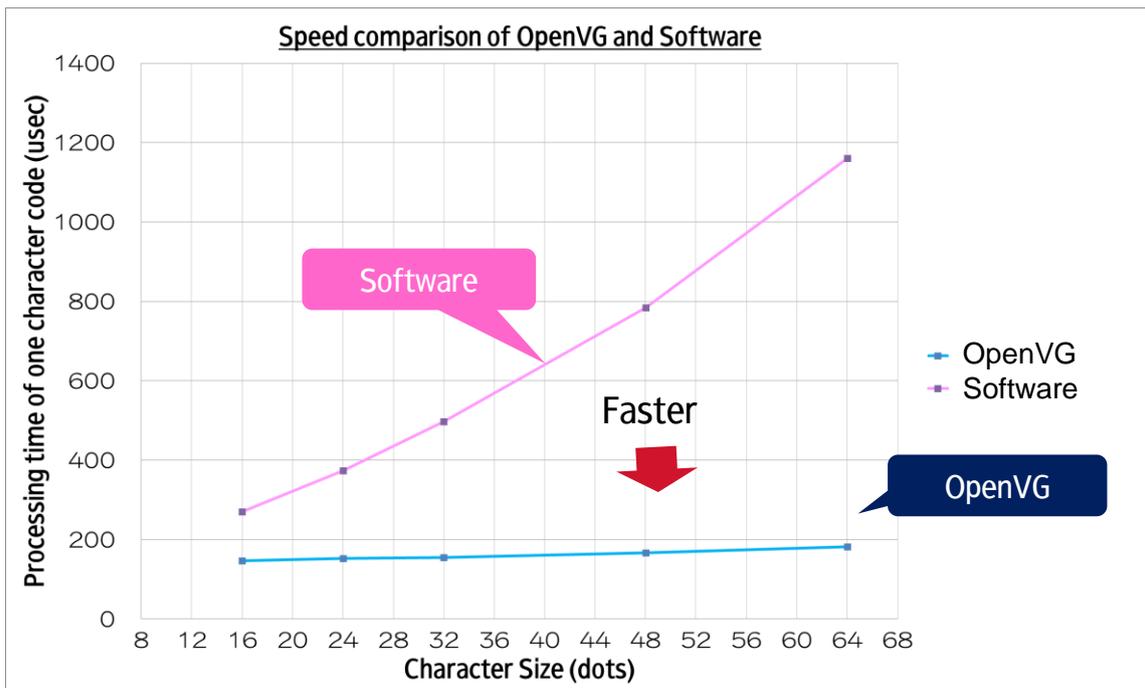
RT Font Rasterizer and Layout Engine are corresponding to the API (Application Programming Interface) of the OpenVG 1.1 .

◇ Composition



◇ Speed comparison

RT Font for OpenVG dramatically reduces the occupation time of the CPU, and allows them to work faster and drawing.



Comparison is due to our evaluation criteria.

Appraisal Agreement

We offer an opportunity to evaluate our RT Font on an actual device prior to entering into a purchase agreement.

◇ Business Flow

Inquiries

Contact

- TTW Information Center
- Mail: font-info@rins.ricoh.co.jp

Computer-based
Appraisal
(free)

Contents

- RT Font viewer (Execution file)
- RT Font data (sample)

Appraisal with the
Use of an Actual
Device
(cost incurred)

An appraisal agreement is signed

Contents

- RT Font Rasterizer source code
- Interface specifications
- RT Font data
- RT Font data specifications

Typeface Agreement

- Typeface agreement is signed
- Delivery
- Payment



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