

Edge Technology

Uncompromised Quality

for East Asian Text



Edge Technology is the first “no compromise” solution for enabling the display of high-quality, East Asian text.

Monotype Imaging enables consumer electronics device manufacturers and developers to ensure their products display text with consistency, clarity and style. Based on patented technology, Monotype Imaging’s Edge™ Technology extends the capabilities of our iType® font engine by catering to the unique challenges of displaying East Asian text on memory-constrained devices, which typically include small, low-resolution screens. Edge Technology is a fully scalable solution that renders East Asian text with exceptional quality, without sacrificing typographic style or memory efficiency.

Clear East Asian text without compromise

Displaying text in Simplified Chinese, Traditional Chinese, Japanese and Korean scripts presents challenges for embedded environments. East Asian writing systems contain thousands of characters, and this creates a problem for East Asian fonts – their file sizes are commonly much larger than fonts that support other languages and can exceed device memory allocations. In addition, the intricate letterforms of East Asian scripts are difficult to display at small text sizes and on low-resolution displays. At smaller sizes, legibility is lost when character strokes crash into one another.

Until now, compact font solutions sacrificed legibility, typeface style, or both in order to maintain a small memory footprint. Scalable text rendering technologies that delivered legibility at small text sizes either sacrificed aesthetic detail or were only available in large file sizes.

Edge Technology brings you the first “no compromise” solution for enabling the display of high-quality, East Asian text. Fonts rendered through Edge offer the same aesthetic detail as traditional TrueType® fonts. However, Edge-enhanced fonts retain a small memory footprint even though they include “hinting” techniques. An intelligent hinting process preserves spatial relationships, sometimes removing strokes to prevent crashing or blurring, without changing the meaning of the characters. Space savings are achieved using compositing and proprietary compression techniques.

PPEM

14 翥稷肇韞臄

16 翥稷肇韞臄

18 翥稷肇韞臄

20 翥稷肇韞臄

22 翥稷肇韞臄

24 翥稷肇韞臄

26 翥稷肇韞臄

28 翥稷肇韞臄

30 翥稷肇韞臄

TRADITIONAL TRUETYPE

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EDGE TRUETYPE



清晰，風格和可讀性

Output tuned to your environment or preference

Every display environment has unique characteristics. Variances in output resolution, display gamma and screen technologies cause text to appear differently. Edge Technology's advanced tuning capabilities were engineered with this in mind. Edge fonts can be tuned to ensure that display quality is at its highest and is consistent across a range of devices, delivering expected quality across a product line. Stroke thickness can be adjusted to make characters appear thinner or thicker. Contrast can be modified to control text sharpness. Additional sharpness can be applied using high-contrast settings, which use more black and white pixels. The resulting effect increases legibility at small text sizes. Low-contrast settings retain a softer look that is often preferred for text displayed at large sizes. These comprehensive controls are unique to Edge Technology, delivering unprecedented control to OEMs.

STROKE THICKNESS ADJUSTMENTS

NORMAL 罍 儻 厖 勸 嘑 種

THICKER 罍 儻 厖 勸 嘑 種

THINNER 罍 儻 厖 勸 嘑 種

CONTRAST ADJUSTMENTS

NORMAL 罍 儻 厖 勸 嘑 種

SOFTER 罍 儻 厖 勸 嘑 種

SHARPER 罍 儻 厖 勸 嘑 種

EDGE-ENHANCED FONTS

Monotype Imaging offers a range of scalable fonts for use with Edge Technology. Customers can choose from fonts that support the Simplified and Traditional Chinese, Japanese and Korean writing systems in a variety of styles. On request, additional fonts from our vast selection of East Asian typefaces can be converted for use with Edge Technology. We can even convert your asian fonts to Edge format. All Edge-enhanced fonts are optimized for consumer electronics devices. Edge Technology and Edge fonts can be evaluated through the iType software development kit.

complete

multilingual text rendering solution

Edge Technology is an optional plug-in for the iType font engine. When activated, the Edge Technology extension automatically renders Edge-enhanced fonts. iType also renders other compatible font formats, including TrueType® and OpenType® fonts, Monotype Imaging stroke fonts, bitmaps and graymaps. Our font selection has the versatility to support all of the world's major languages and a comprehensive range of display devices. iType offers additional innovations to provide a complete multilingual text rendering solution for consumer electronics devices.

Font linking

Groups of fonts can be linked and treated as a single font file. Fonts can be downloaded and linked with resident font files. Font linking improves flexibility in managing the font resources embedded in a device.

Font management and discovery tools

iType provides features which enable compliance with requirements for downloadable fonts in the Java MIDP 3.0, DVB MHP and other industry specifications. iType validates font data and manages application access to font resources based on execution environments and relevant font license restrictions. Font discovery features help applications find and select available fonts using criteria such as font names and styles.

Integration with our WorldType® Layout Engine

Text layout capabilities and character shaping for complex scripts such as Arabic, Indic and Thai allow OEMs and developers to produce products for local, regional or international markets.

Easy integration with iType Connects™

Using the iType Connects plug-in, iType and Edge Technology can be ported easily into many environments. iType Connects plug-ins are readily available for a variety of platforms, including the Linux® open source, BREW®, Symbian OS™, Windows® Embedded CE, Android, Qt and OpenTV® environments. iType features a flexible, component-based architecture that allows developers to conserve memory by integrating only the components needed for their environment.

Evaluation copies of the iType font engine featuring Edge Technology are available through your Monotype Imaging sales representative. Contact us to see how our text rendering solutions can enhance the text display of your device.

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