

GDI + 1.0

by Stephen Rodriguez

Font Class

General.

Our GDI+ Font class is housed within the "gdiPlus_FontClass.pbi" source file.

The class contains elements of the following c/c++ classes :

Font

This is not a *helper-class* (containing just simple macros etc.) but a full OOP class.

Interface / base-class.

Our font class exposes a single **interface** with the name `gdiPlus_Font`.

This interface extends our `gdiPlus_BaseClass` interface which exposes a single method :

`GetGdiPlusHandle.i()`

which can be used to retrieve the Font handle used natively by GDI+.

'gdiPlus_Font' constructors.

The following all return (if successful) instances of our `gdiPlus_Font` class whose methods are listed in the following section. These correspond to constructors from the appropriate c/c++ wrapper class and so the reader is advised to look on the appropriate MSDN pages for detailed descriptions.

`gdiPlus_CreateFont(fontFamily._gdiPlus_FontFamily, emSize.f, fontStyle=#FontStyleRegular, unit=#UnitPoint)`

`emSize` specifies the em size of the font in units given by the 'unit' parameter.

`gdiPlus_FontFromDC(hdc)`

Included for compatibility with GDI. You must ensure that the DC has a valid font selected into it.

`gdiPlus_FontFromLogFont(hdc, *lf.LOGFONT)`

'gdiPlus_Font' methods.

Unless specified otherwise, the following all return a gdiPlus status code (beginning with `#Ok`).

All of these methods correspond to methods from the appropriate c/c++ wrapper classes and so the reader is advised to look on the appropriate MSDN pages for detailed descriptions.

`Destroy()`

`Clone.i()`

Returns, if successful, a new `gdiPlus_Font` object containing an exact copy of the original object.

GetFamily.i()

Returns, if successful, a newly instantiated `gdiPlus_FontFamily` object containing the font's underlying family attributes.

GetHeightFromGraphics.f(*graphics._gdiPlus_GenericObject_Template)

Returns the line-spacing of the font in the current units of the specified graphics object.

GetHeightGivenDPI.f(dpi.f)

Returns the line-spacing of the font in pixels. If the font unit is set to anything other than `#UnitPixel`, the height, in pixels, is calculated using the specified vertical resolution.

GetLogFont.i(*graphics._gdiPlus_GenericObject_Template, *logfont.LOGFONT)

Fills out a LOGFONT structure to get the attributes of the font object. You are advised to use the font and appropriate font-family objects instead however.

GetSize.f()

Returns the em font size in the units of the font object.

GetStyle.i()

Returns a combination of FontStyle constants, e.g. `#FontStyleRegular`.

GetUnit.i()

Returns a Unit constant, e.g. `#UnitPoint`.