| | [**Overview**](http://docs.google.com/index-overview-summary.html) | [**Project**](http://docs.google.com/project-summary.html) | **Class** | [**Tree**](http://docs.google.com/project-tree.html) | [**Deprecated**](http://docs.google.com/index-deprecated-list.html) | [**Index**](http://docs.google.com/index-all.html) | | --- | --- | --- | --- | --- | --- | | | ***CarnegieMellonGraphics*** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| [**FRAMES**](http://docs.google.com/index.html)    [**NO FRAMES**](http://docs.google.com/CarnegieMellonGraphics2/Font.html) |
| SUMMARY:  INNER | [FIELD](#30j0zll) | [CONSTR](#1fob9te) | [METHOD](#3znysh7) | DETAIL:  [FIELD](#2et92p0) | [CONSTR](#2s8eyo1) | [METHOD](#44sinio) |  |

## **CarnegieMellonGraphics2**

Class Font

   in [CarnegieMellonGraphics.h](http://docs.google.com/CarnegieMellonGraphics.h.html)

class **Font**

Class for representing fonts. A new font object can be created given the location of a TrueType font file, and a point size.

For example to create a font for 20 point Arial, the user would do the following:

Font myArial("/where/I/keep/my/fonts/arial.ttf", 20);

The string for specifing the font location is dependent upon the platform used.

The user may also use the mutators to alter the font after creation.

**Update:** You can now also create a font using one of the built-in fonts. See [Font(int,int)](http://docs.google.com/CarnegieMellonGraphics2/Font.html#Font(int,int)).

| **Field Summary** | |
| --- | --- |
| static const int | [**HELVETICA**](#tyjcwt)            bitmapped fonts, must be used at specific sizes; helvetica sizes: 10,12, 18. |
| static const int | [**MONO\_ROMAN**](#3dy6vkm)            stroked font, can be used at any resolution |
| static const int | [**ROMAN**](#1t3h5sf)            stroked font, can be used at any resolution |
| static const int | [**TIMES**](#4d34og8)            bitmapped fonts, must be used at specific sizes; times sizes: 10, 24. |

| **Constructor Summary** | |
| --- | --- |
| [**Font**](#17dp8vu)( const std::string& face, const int pointsize )            Constructor for creating fonts from a TrueType font file. |
| [**Font**](#26in1rg)( int fontID, int pointsize )            Constructor for creating fonts from one of the builtin fonts. |
| [**Font**](#lnxbz9)( const [**Font**](#lnxbz9)& font )            Copy constructor |
| [**~Font**](#35nkun2)() |

| **Method Summary** | |
| --- | --- |
| static bool | [**checkFont**](#2jxsxqh)( const std::string& face, const int pointsize )            Class function for checking to see whether a font exists |
| std::string | [**getFace**](#3j2qqm3)() const |
| int | [**getPointSize**](#4i7ojhp)() const |
| void | [**getStringSize**](#1ci93xb)( const std::string& text, int& width, int& height )            Get the dimensions of the specified text. |
| bool | [**operator!=**](#2bn6wsx)( const Font& rhs ) const            Comparison operator for inequality on fonts |
| Font& | [**operator=**](#3as4poj)( const Font& rhs )            Assignment operator |
| bool | [**operator==**](#49x2ik5)( const Font& rhs ) const            Comparison operator for equality on fonts |
| void | [**setFace**](#147n2zr)( const std::string& face ) |
| void | [**setPointSize**](#23ckvvd)( const int pointsize ) |

| **Field Detail** |
| --- |

### HELVETICA

public static const int **HELVETICA**;

bitmapped fonts, must be used at specific sizes; helvetica sizes: 10,12, 18.

### MONO\_ROMAN

public static const int **MONO\_ROMAN**;

stroked font, can be used at any resolution

### ROMAN

public static const int **ROMAN**;

stroked font, can be used at any resolution

### TIMES

public static const int **TIMES**;

bitmapped fonts, must be used at specific sizes; times sizes: 10, 24.

| **Constructor Detail** |
| --- |

### Font

public **Font**( const std::string& face, const int pointsize );

Constructor for creating fonts from a TrueType font file. **Warning:** Not supported on MacOS.

### Font

public **Font**( int fontID, int pointsize );

Constructor for creating fonts from one of the builtin fonts. **Since:** 2.10 **See Also:** [ROMAN](http://docs.google.com/CarnegieMellonGraphics2/Font.html#ROMAN), [MONO\_ROMAN](http://docs.google.com/CarnegieMellonGraphics2/Font.html#MONO_ROMAN), [HELVETICA](http://docs.google.com/CarnegieMellonGraphics2/Font.html#HELVETICA), [TIMES](http://docs.google.com/CarnegieMellonGraphics2/Font.html#TIMES)

### Font

public **Font**( const **Font**& font );

Copy constructor

### ~Font

public **~Font**();

| **Method Detail** |
| --- |

### checkFont

public static bool **checkFont**( const std::string& face, const int pointsize );

Class function for checking to see whether a font exists

### getFace

public std::string **getFace**() const;

### getPointSize

public int **getPointSize**() const;

### getStringSize

public void **getStringSize**( const std::string& text, int& width, int& height );

Get the dimensions of the specified text. Put the results in width and height. **Parameters:** text - [in] Text to measure width - [out] Width of the text. height - [out] Height of the text. **Since:** 2.1.2

### operator!=

public bool **operator!=**( const Font& rhs ) const;

Comparison operator for inequality on fonts

### operator=

public Font& **operator=**( const Font& rhs );

Assignment operator

### operator==

public bool **operator==**( const Font& rhs ) const;

Comparison operator for equality on fonts

### setFace

public void **setFace**( const std::string& face );

### setPointSize

public void **setPointSize**( const int pointsize );

| | [**Overview**](http://docs.google.com/index-overview-summary.html) | [**Project**](http://docs.google.com/project-summary.html) | **Class** | [**Tree**](http://docs.google.com/project-tree.html) | [**Deprecated**](http://docs.google.com/index-deprecated-list.html) | [**Index**](http://docs.google.com/index-all.html) | | --- | --- | --- | --- | --- | --- | | | ***CarnegieMellonGraphics*** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| [**FRAMES**](http://docs.google.com/index.html)    [**NO FRAMES**](http://docs.google.com/CarnegieMellonGraphics2/Font.html) |
| SUMMARY:  INNER | [FIELD](#30j0zll) | [CONSTR](#1fob9te) | [METHOD](#3znysh7) | DETAIL:  [FIELD](#2et92p0) | [CONSTR](#2s8eyo1) | [METHOD](#44sinio) |  |