| | [**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/Image.html) |
| SUMMARY:  INNER | FIELD | [CONSTR](#1fob9te) | [METHOD](#3znysh7) | DETAIL:  FIELD | [CONSTR](#2et92p0) | [METHOD](#3rdcrjn) |  |

## **CarnegieMellonGraphics2**

Class Image

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

**Direct Known Subclasses:** [EditableImage](http://docs.google.com/CarnegieMellonGraphics2/EditableImage.html)class **Image**

The Image class

| **Inner Classes, Typedefs, and Enums** | |
| --- | --- |
| typedef | [**Image::Type**](http://docs.google.com/CarnegieMellonGraphics2/Image..Type.html)            Image types currently supported   | JPEG | JPEG Images | | --- | --- | | PNG | PNG Images | | SCREEN | An image created from a region in a window | |

| **Constructor Summary** | |
| --- | --- |
| [**Image**](#tyjcwt)( const std::string& file, const [Image::Type](http://docs.google.com/CarnegieMellonGraphics2/Image..Type.html) type ) |
| [**Image**](#1t3h5sf)() |
| [**Image**](#4d34og8)( const [**Image**](#4d34og8)& image )            Copy constructor |
| [**~Image**](#2s8eyo1)() |

| **Method Summary** | |
| --- | --- |
| static bool | [**checkImage**](#26in1rg)( const std::string& file, const [Image::Type](http://docs.google.com/CarnegieMellonGraphics2/Image..Type.html) type )            Class function for checking to see whether an Image exists |
| int | [**getHeight**](#35nkun2)() const            Get the height of the image |
| [Image::Type](http://docs.google.com/CarnegieMellonGraphics2/Image..Type.html) | [**getType**](#44sinio)() const            Get the type of the image |
| int | [**getWidth**](#z337ya)() const            Get the width of the image |
| bool | [**operator!=**](#1y810tw)( const Image& rhs ) const            Comparison operator for inequality on images |
| Image& | [**operator=**](#2xcytpi)( const Image& rhs )            Assignment operator |
| bool | [**operator==**](#3whwml4)( const Image& rhs ) const            Comparison operator for equality on images |
| void | [**save**](#qsh70q)( const std::string& file, const [Image::Type](http://docs.google.com/CarnegieMellonGraphics2/Image..Type.html) type ) const            Save this image to a file of the specified type. |
| Image | [**subImage**](#1pxezwc)( int x, int y, int w, int h )            Copy out a sub-portion of the image and return it. |

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

### Image

public **Image**( const std::string& file, const [Image::Type](http://docs.google.com/CarnegieMellonGraphics2/Image..Type.html) type );

### Image

public **Image**();

### Image

public **Image**( const **Image**& image );

Copy constructor

### ~Image

public **~Image**();

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

### checkImage

public static bool **checkImage**( const std::string& file, const [Image::Type](http://docs.google.com/CarnegieMellonGraphics2/Image..Type.html) type );

Class function for checking to see whether an Image exists

### getHeight

public int **getHeight**() const;

Get the height of the image

### getType

public [Image::Type](http://docs.google.com/CarnegieMellonGraphics2/Image..Type.html) **getType**() const;

Get the type of the image

### getWidth

public int **getWidth**() const;

Get the width of the image

### operator!=

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

Comparison operator for inequality on images

### operator=

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

Assignment operator

### operator==

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

Comparison operator for equality on images

### save

public void **save**( const std::string& file, const [Image::Type](http://docs.google.com/CarnegieMellonGraphics2/Image..Type.html) type ) const;

Save this image to a file of the specified type.

### subImage

public Image **subImage**( int x, int y, int w, int h );

Copy out a sub-portion of the image and return it. This is very useful for creating an animation in a single image and then chopping it into an array of sprites in your program.

| | [**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*** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
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