| | [**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/EditableImage.html) |
| SUMMARY:  INNER | FIELD | [CONSTR](#30j0zll) | [METHOD](#1fob9te) | DETAIL:  FIELD | [CONSTR](#2et92p0) | [METHOD](#3rdcrjn) |  |

## **CarnegieMellonGraphics2**

Class EditableImage

[Image](http://docs.google.com/CarnegieMellonGraphics2/Image.html)  
 |  
 +--**EditableImage**

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

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

Images that can be manipulated at the pixel level. EditableImages should be used when you want to either do lots and lots of pixel manipulation quickly or be able to modify other images. You can use EditableImages just as you would Images, just that you can manipulate pixels.

**Since:** 2.1.4a **See Also:** [Window::drawImage](http://docs.google.com/CarnegieMellonGraphics2/Window.html#drawImage)

| **Constructor Summary** | |
| --- | --- |
| [**EditableImage**](#tyjcwt)( const [**EditableImage**](#tyjcwt)& image )            Copy constructor |
| [**EditableImage**](#1t3h5sf)( const [Image](http://docs.google.com/CarnegieMellonGraphics2/Image.html)& image )            Cast Image object up to an EditableImage |
| [**EditableImage**](#4d34og8)( int width, int height )            Constructor to make an image that's width x height. |
| [**~EditableImage**](#2s8eyo1)() |

| **Method Summary** | |
| --- | --- |
| EditableImage | [**clone**](#26in1rg)()            return a "deep" copy of this image |
| [Color](http://docs.google.com/CarnegieMellonGraphics2/Color.html) | [**getPixel**](#35nkun2)( int x, int y )            gets the color of the pixel at (x,y) |
| EditableImage& | [**operator=**](#44sinio)( const EditableImage& image )            Assignment operator. |
| void | [**setPixel**](#z337ya)( int x, int y, const [Color](http://docs.google.com/CarnegieMellonGraphics2/Color.html)& c )            sets the color of the pixel at (x,y) |
| void | [**setPixel**](#1y810tw)( int x, int y, unsigned char r, unsigned char g, unsigned char b, unsigned char a = 255 )            sets the color of the pixel at (x,y) |

| **Methods inherited from class** [**Image**](http://docs.google.com/CarnegieMellonGraphics2/Image.html) |
| --- |
| [operator=](http://docs.google.com/CarnegieMellonGraphics2/Image.html#operator=(constImage&)), [operator==](http://docs.google.com/CarnegieMellonGraphics2/Image.html#operator==(constImage&)), [operator!=](http://docs.google.com/CarnegieMellonGraphics2/Image.html#operator!=(constImage&)), [save](http://docs.google.com/CarnegieMellonGraphics2/Image.html#save(conststd::string&,constType)), [getWidth](http://docs.google.com/CarnegieMellonGraphics2/Image.html#getWidth()), [getHeight](http://docs.google.com/CarnegieMellonGraphics2/Image.html#getHeight()), [getType](http://docs.google.com/CarnegieMellonGraphics2/Image.html#getType()), [checkImage](http://docs.google.com/CarnegieMellonGraphics2/Image.html#checkImage(conststd::string&,constType)), [subImage](http://docs.google.com/CarnegieMellonGraphics2/Image.html#subImage(int,int,int,int)) |

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

### EditableImage

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

Copy constructor

### EditableImage

public **EditableImage**( const [Image](http://docs.google.com/CarnegieMellonGraphics2/Image.html)& image );

Cast Image object up to an EditableImage

### EditableImage

public **EditableImage**( int width, int height );

Constructor to make an image that's width x height.

### ~EditableImage

public **~EditableImage**();

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

### clone

public EditableImage **clone**();

return a "deep" copy of this image

### getPixel

public [Color](http://docs.google.com/CarnegieMellonGraphics2/Color.html) **getPixel**( int x, int y );

gets the color of the pixel at (x,y)

### operator=

public EditableImage& **operator=**( const EditableImage& image );

Assignment operator. As always, assignment is done via references, so this is a "shallow" copy of the image. Changes to either the left-hand-side or right-hand-side will affect the other. **See Also:** [clone](http://docs.google.com/CarnegieMellonGraphics2/EditableImage.html#clone)

### setPixel

public void **setPixel**( int x, int y, const [Color](http://docs.google.com/CarnegieMellonGraphics2/Color.html)& c );

sets the color of the pixel at (x,y)

### setPixel

public void **setPixel**( int x, int y, unsigned char r, unsigned char g, unsigned char b, unsigned char a = 255 );

sets the color of the pixel at (x,y)

| | [**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/EditableImage.html) |
| SUMMARY:  INNER | FIELD | [CONSTR](#30j0zll) | [METHOD](#1fob9te) | DETAIL:  FIELD | [CONSTR](#2et92p0) | [METHOD](#3rdcrjn) |  |