| | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Tree**](http://docs.google.com/package-tree.html) | [**Index**](http://docs.google.com/index-all.html) | [**Help**](http://docs.google.com/help-doc.html) | | --- | --- | --- | --- | --- | | |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| [**PREV CLASS**](http://docs.google.com/ColorChooser.html)   [**NEXT CLASS**](http://docs.google.com/FileChooser.html) | [**FRAMES**](http://docs.google.com/index.html?DigitalPicture.html)    [**NO FRAMES**](http://docs.google.com/DigitalPicture.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | CONSTR | [METHOD](#3znysh7) | DETAIL: FIELD | CONSTR | [METHOD](#2et92p0) |

## Interface DigitalPicture

**All Known Implementing Classes:** [Picture](http://docs.google.com/Picture.html), [SimplePicture](http://docs.google.com/SimplePicture.html)

public interface **DigitalPicture**

Interface to describe a digital picture. A digital picture can have an associated file name. It can have a title. It has pixels associated with it and you can get and set the pixels. You can get an Image from a picture or a BufferedImage. You can load it from a file name or image. You can show a picture. You can explore a picture. You can create a new image for it.

**Author:** Barb Ericson ericson@cc.gatech.edu

| **Method Summary** | |
| --- | --- |
| void | [**explore**](http://docs.google.com/DigitalPicture.html#explore())() |
| int | [**getBasicPixel**](http://docs.google.com/DigitalPicture.html#getBasicPixel(int,%20int))(int x, int y) |
| [BufferedImage](http://java.sun.com/j2se/1.5/docs/api/java/awt/image/BufferedImage.html) | [**getBufferedImage**](http://docs.google.com/DigitalPicture.html#getBufferedImage())() |
| [String](http://java.sun.com/j2se/1.5/docs/api/java/lang/String.html) | [**getFileName**](http://docs.google.com/DigitalPicture.html#getFileName())() |
| int | [**getHeight**](http://docs.google.com/DigitalPicture.html#getHeight())() |
| [Image](http://java.sun.com/j2se/1.5/docs/api/java/awt/Image.html) | [**getImage**](http://docs.google.com/DigitalPicture.html#getImage())() |
| [Pixel](http://docs.google.com/Pixel.html) | [**getPixel**](http://docs.google.com/DigitalPicture.html#getPixel(int,%20int))(int x, int y) |
| [Pixel](http://docs.google.com/Pixel.html)[] | [**getPixels**](http://docs.google.com/DigitalPicture.html#getPixels())() |
| [Pixel](http://docs.google.com/Pixel.html)[][] | [**getPixels2D**](http://docs.google.com/DigitalPicture.html#getPixels2D())() |
| [String](http://java.sun.com/j2se/1.5/docs/api/java/lang/String.html) | [**getTitle**](http://docs.google.com/DigitalPicture.html#getTitle())() |
| int | [**getWidth**](http://docs.google.com/DigitalPicture.html#getWidth())() |
| void | [**load**](http://docs.google.com/DigitalPicture.html#load(java.awt.Image))([Image](http://java.sun.com/j2se/1.5/docs/api/java/awt/Image.html) image) |
| boolean | [**load**](http://docs.google.com/DigitalPicture.html#load(java.lang.String))([String](http://java.sun.com/j2se/1.5/docs/api/java/lang/String.html) fileName) |
| void | [**setBasicPixel**](http://docs.google.com/DigitalPicture.html#setBasicPixel(int,%20int,%20int))(int x, int y, int rgb) |
| void | [**setTitle**](http://docs.google.com/DigitalPicture.html#setTitle(java.lang.String))([String](http://java.sun.com/j2se/1.5/docs/api/java/lang/String.html) title) |
| void | [**show**](http://docs.google.com/DigitalPicture.html#show())() |
| boolean | [**write**](http://docs.google.com/DigitalPicture.html#write(java.lang.String))([String](http://java.sun.com/j2se/1.5/docs/api/java/lang/String.html) fileName) |

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

### explore

void **explore**()

### getBasicPixel

int **getBasicPixel**(int x,  
 int y)

### getBufferedImage

[BufferedImage](http://java.sun.com/j2se/1.5/docs/api/java/awt/image/BufferedImage.html) **getBufferedImage**()

### getFileName

[String](http://java.sun.com/j2se/1.5/docs/api/java/lang/String.html) **getFileName**()

### getHeight

int **getHeight**()

### getImage

[Image](http://java.sun.com/j2se/1.5/docs/api/java/awt/Image.html) **getImage**()

### getPixel

[Pixel](http://docs.google.com/Pixel.html) **getPixel**(int x,  
 int y)

### getPixels

[Pixel](http://docs.google.com/Pixel.html)[] **getPixels**()

### getPixels2D

[Pixel](http://docs.google.com/Pixel.html)[][] **getPixels2D**()

### getTitle

[String](http://java.sun.com/j2se/1.5/docs/api/java/lang/String.html) **getTitle**()

### getWidth

int **getWidth**()

### load

void **load**([Image](http://java.sun.com/j2se/1.5/docs/api/java/awt/Image.html) image)

### load

boolean **load**([String](http://java.sun.com/j2se/1.5/docs/api/java/lang/String.html) fileName)

### setBasicPixel

void **setBasicPixel**(int x,  
 int y,  
 int rgb)

### setTitle

void **setTitle**([String](http://java.sun.com/j2se/1.5/docs/api/java/lang/String.html) title)

### show

void **show**()

### write

boolean **write**([String](http://java.sun.com/j2se/1.5/docs/api/java/lang/String.html) fileName)

| | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Tree**](http://docs.google.com/package-tree.html) | [**Index**](http://docs.google.com/index-all.html) | [**Help**](http://docs.google.com/help-doc.html) | | --- | --- | --- | --- | --- | | |  |
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