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| --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  |  |  |  | | --- | --- | --- | --- | --- | | [**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/IntArrayWorkerTester.html)   [**NEXT CLASS**](http://docs.google.com/PictureExplorer.html) | [**FRAMES**](http://docs.google.com/index.html?Picture.html)    [**NO FRAMES**](http://docs.google.com/Picture.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | [CONSTR](#3znysh7)| [METHOD](#2et92p0) | DETAIL: FIELD | [CONSTR](#1t3h5sf)| [METHOD](#lnxbz9) |

## Class Picture

[java.lang.Object](http://java.sun.com/j2se/1.5/docs/api/java/lang/Object.html)  
 [SimplePicture](http://docs.google.com/SimplePicture.html)  
 **Picture**

**All Implemented Interfaces:** [DigitalPicture](http://docs.google.com/DigitalPicture.html)

public class **Picture**extends [SimplePicture](http://docs.google.com/SimplePicture.html)

A class that represents a picture. This class inherits from SimplePicture and allows the student to add functionality to the Picture class.

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

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| **Constructor Summary** | |
| [**Picture**](http://docs.google.com/Picture.html#Picture())()            Constructor that takes no arguments |
| [**Picture**](http://docs.google.com/Picture.html#Picture(java.awt.image.BufferedImage))([BufferedImage](http://java.sun.com/j2se/1.5/docs/api/java/awt/image/BufferedImage.html) image)            Constructor that takes a buffered image |
| [**Picture**](http://docs.google.com/Picture.html#Picture(int,%20int))(int height, int width)            Constructor that takes the width and height |
| [**Picture**](http://docs.google.com/Picture.html#Picture(Picture))([Picture](http://docs.google.com/Picture.html) copyPicture)            Constructor that takes a picture and creates a copy of that picture |
| [**Picture**](http://docs.google.com/Picture.html#Picture(java.lang.String))([String](http://java.sun.com/j2se/1.5/docs/api/java/lang/String.html) fileName)            Constructor that takes a file name and creates the picture |

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| **Method Summary** | |
| void | [**copy**](http://docs.google.com/Picture.html#copy(Picture,%20int,%20int))([Picture](http://docs.google.com/Picture.html) fromPic, int startRow, int startCol)            copy from the passed fromPic to the specified startRow and startCol in the current picture |
| void | [**createCollage**](http://docs.google.com/Picture.html#createCollage())()            Method to create a collage of several pictures |
| void | [**edgeDetection**](http://docs.google.com/Picture.html#edgeDetection(int))(int edgeDist)            Method to show large changes in color |
| static void | [**main**](http://docs.google.com/Picture.html#main(java.lang.String[]))([String](http://java.sun.com/j2se/1.5/docs/api/java/lang/String.html)[] args) |
| void | [**mirrorTemple**](http://docs.google.com/Picture.html#mirrorTemple())()            Mirror just part of a picture of a temple |
| void | [**mirrorVertical**](http://docs.google.com/Picture.html#mirrorVertical())()            Method that mirrors the picture around a vertical mirror in the center of the picture from left to right |
| [String](http://java.sun.com/j2se/1.5/docs/api/java/lang/String.html) | [**toString**](http://docs.google.com/Picture.html#toString())()            Method to return a string with information about this picture. |
| void | [**zeroBlue**](http://docs.google.com/Picture.html#zeroBlue())()            Method to set the blue to 0 |

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| **Methods inherited from class** [**SimplePicture**](http://docs.google.com/SimplePicture.html) |
| [addMessage](http://docs.google.com/SimplePicture.html#addMessage(java.lang.String,%20int,%20int)), [copyPicture](http://docs.google.com/SimplePicture.html#copyPicture(SimplePicture)), [createGraphics](http://docs.google.com/SimplePicture.html#createGraphics()), [drawString](http://docs.google.com/SimplePicture.html#drawString(java.lang.String,%20int,%20int)), [explore](http://docs.google.com/SimplePicture.html#explore()), [getBasicPixel](http://docs.google.com/SimplePicture.html#getBasicPixel(int,%20int)), [getBufferedImage](http://docs.google.com/SimplePicture.html#getBufferedImage()), [getExtension](http://docs.google.com/SimplePicture.html#getExtension()), [getFileName](http://docs.google.com/SimplePicture.html#getFileName()), [getGraphics](http://docs.google.com/SimplePicture.html#getGraphics()), [getHeight](http://docs.google.com/SimplePicture.html#getHeight()), [getImage](http://docs.google.com/SimplePicture.html#getImage()), [getMediaPath](http://docs.google.com/SimplePicture.html#getMediaPath(java.lang.String)), [getPictureFrame](http://docs.google.com/SimplePicture.html#getPictureFrame()), [getPictureWithHeight](http://docs.google.com/SimplePicture.html#getPictureWithHeight(int)), [getPictureWithWidth](http://docs.google.com/SimplePicture.html#getPictureWithWidth(int)), [getPixel](http://docs.google.com/SimplePicture.html#getPixel(int,%20int)), [getPixels](http://docs.google.com/SimplePicture.html#getPixels()), [getPixels2D](http://docs.google.com/SimplePicture.html#getPixels2D()), [getTitle](http://docs.google.com/SimplePicture.html#getTitle()), [getTransformEnclosingRect](http://docs.google.com/SimplePicture.html#getTransformEnclosingRect(java.awt.geom.AffineTransform)), [getTranslationEnclosingRect](http://docs.google.com/SimplePicture.html#getTranslationEnclosingRect(java.awt.geom.AffineTransform)), [getWidth](http://docs.google.com/SimplePicture.html#getWidth()), [hide](http://docs.google.com/SimplePicture.html#hide()), [load](http://docs.google.com/SimplePicture.html#load(java.awt.Image)), [load](http://docs.google.com/SimplePicture.html#load(java.lang.String)), [loadImage](http://docs.google.com/SimplePicture.html#loadImage(java.lang.String)), [loadOrFail](http://docs.google.com/SimplePicture.html#loadOrFail(java.lang.String)), [loadPictureAndShowIt](http://docs.google.com/SimplePicture.html#loadPictureAndShowIt(java.lang.String)), [repaint](http://docs.google.com/SimplePicture.html#repaint()), [scale](http://docs.google.com/SimplePicture.html#scale(double,%20double)), [setAllPixelsToAColor](http://docs.google.com/SimplePicture.html#setAllPixelsToAColor(java.awt.Color)), [setBasicPixel](http://docs.google.com/SimplePicture.html#setBasicPixel(int,%20int,%20int)), [setFileName](http://docs.google.com/SimplePicture.html#setFileName(java.lang.String)), [setPictureFrame](http://docs.google.com/SimplePicture.html#setPictureFrame(PictureFrame)), [setTitle](http://docs.google.com/SimplePicture.html#setTitle(java.lang.String)), [setVisible](http://docs.google.com/SimplePicture.html#setVisible(boolean)), [show](http://docs.google.com/SimplePicture.html#show()), [write](http://docs.google.com/SimplePicture.html#write(java.lang.String)), [writeOrFail](http://docs.google.com/SimplePicture.html#writeOrFail(java.lang.String)) |

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| **Methods inherited from class java.lang.**[**Object**](http://java.sun.com/j2se/1.5/docs/api/java/lang/Object.html) |
| [clone](http://java.sun.com/j2se/1.5/docs/api/java/lang/Object.html#clone()), [equals](http://java.sun.com/j2se/1.5/docs/api/java/lang/Object.html#equals(java.lang.Object)), [finalize](http://java.sun.com/j2se/1.5/docs/api/java/lang/Object.html#finalize()), [getClass](http://java.sun.com/j2se/1.5/docs/api/java/lang/Object.html#getClass()), [hashCode](http://java.sun.com/j2se/1.5/docs/api/java/lang/Object.html#hashCode()), [notify](http://java.sun.com/j2se/1.5/docs/api/java/lang/Object.html#notify()), [notifyAll](http://java.sun.com/j2se/1.5/docs/api/java/lang/Object.html#notifyAll()), [wait](http://java.sun.com/j2se/1.5/docs/api/java/lang/Object.html#wait()), [wait](http://java.sun.com/j2se/1.5/docs/api/java/lang/Object.html#wait(long)), [wait](http://java.sun.com/j2se/1.5/docs/api/java/lang/Object.html#wait(long,%20int)) |

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| **Constructor Detail** |

### Picture

public **Picture**()

Constructor that takes no arguments

### Picture

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

Constructor that takes a buffered image

**Parameters:**image - the buffered image to use

### Picture

public **Picture**(int height,  
 int width)

Constructor that takes the width and height

**Parameters:**height - the height of the desired picturewidth - the width of the desired picture

### Picture

public **Picture**([Picture](http://docs.google.com/Picture.html) copyPicture)

Constructor that takes a picture and creates a copy of that picture

**Parameters:**copyPicture - the picture to copy

### Picture

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

Constructor that takes a file name and creates the picture

**Parameters:**fileName - the name of the file to create the picture from

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| **Method Detail** |

### copy

public void **copy**([Picture](http://docs.google.com/Picture.html) fromPic,  
 int startRow,  
 int startCol)

copy from the passed fromPic to the specified startRow and startCol in the current picture

**Parameters:**fromPic - the picture to copy fromstartRow - the start row to copy tostartCol - the start col to copy to

### createCollage

public void **createCollage**()

Method to create a collage of several pictures

### edgeDetection

public void **edgeDetection**(int edgeDist)

Method to show large changes in color

**Parameters:**edgeDist - the distance for finding edges

### main

public static void **main**([String](http://java.sun.com/j2se/1.5/docs/api/java/lang/String.html)[] args)

### mirrorTemple

public void **mirrorTemple**()

Mirror just part of a picture of a temple

### mirrorVertical

public void **mirrorVertical**()

Method that mirrors the picture around a vertical mirror in the center of the picture from left to right

### toString

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

Method to return a string with information about this picture.

**Overrides:**[toString](http://docs.google.com/SimplePicture.html#toString()) in class [SimplePicture](http://docs.google.com/SimplePicture.html) **Returns:**a string with information about the picture such as fileName, height and width.

### zeroBlue

public void **zeroBlue**()

Method to set the blue to 0

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| |  |  |  |  |  | | --- | --- | --- | --- | --- | | [**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/IntArrayWorkerTester.html)   [**NEXT CLASS**](http://docs.google.com/PictureExplorer.html) | [**FRAMES**](http://docs.google.com/index.html?Picture.html)    [**NO FRAMES**](http://docs.google.com/Picture.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
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