SimplePicture:

Attribute: fileName

Datatype: String

Description: the file name associated with the simple picture

Attribute: title

Datatype: Stringp

Description: the title of the simple picture

Attribute: bufferedImage

Datatype: BufferedImage

Description: buffered image to hold pixels for the simple picture

Attribute: pictureFrame

Datatype: PictureFrame

Description: frame used to display the simple picture

Attribute: extension

Datatype: String

Description: extension for this file (jpg or bmp)

Constructor: SimplePicture()

Access Modifier: public

Parameters: None

Description: A Constructor that takes no arguments. All fields will be null. A no-argument constructor must be given in order for a class to be able to be sub classed. By default all subclasses will implicitly call this in their parent's no argument constructor unless a different call to super() is explicitly made as the first line of code in a constructor.

Constructor: SimplePicture()

Access Modifier: public

Parameters: String fileName

Description: A Constructor that takes a file name and uses the file to create a picture

Constructor: SimplePicture()

Access Modifier: public

Parameters: int width, int height

Description: A constructor that takes the width and height desired for a picture and creates a buffered image of that size. This constructor doesn't show the picture.

Constructor: SimplePicture()

Access Modifier: public

Parameters: int width, int height, Color theColor

Description: A constructor that takes the width and height desired for a picture and creates a buffered image of that size. It also takes the color to use for the background of the picture.

Constructor: SimplePicture()

Access Modifier: public

Parameters: SimplePicture copyPicture

Description: A Constructor that takes a picture to copy information from

Constructor: SimplePicture()

Access Modifier: public

Parameters: BufferedImage image

Description: A constructor that takes a buffered image

Method: copyPicture()

Access Modifier: public

Modifier: non-static

Return Value: void

Parameters: SimplePicture sourcePicture

Description: Method that will copy all of the passed source picture into the current picture object

Method: setAllPixelsToAColor()

Access Modifier: public

Modifier: non-static

Return Value: void

Parameters: Color color

Description: Method to set the color in the picture to the passed color

Method: getBufferedImage()

Access Modifier: public

Modifier: non-static

Return Value: BufferedImage

Parameters: None

Description: Method to get the buffered image

Method: getGraphics()

Access Modifier: public

Modifier: non-static

Return Value: Graphics

Parameters: None

Description: Method to get a graphics object for this picture to use to draw on

Method: createGraphics()

Access Modifier: public

Modifier: non-static

Return Value: Graphics2D

Parameters: None

Description: Method to get a Graphics2D object for this picture which can be used to do 2D drawing on the picture

Method: setFileName()

Access Modifier: public

Modifier: non-static

Return Value: void

Parameters: String name

Description: Method to set the file name

Method: getTitle()

Access Modifier: public

Modifier: non-static

Return Value: String

Parameters: None

Description: Method to get the title of the picture

Method: setTitle()

Access Modifier: public

Modifier: non-static

Return Value: void

Parameters: String title

Description: Method to set the title for the picture

Method: setPictureFrame()

Access Modifier: public

Modifier: non-static

Return Value: void

Parameters: PictureFrame pictureFrame

Description: Method to set the picture frame for this picture

Method: getImage()

Access Modifier: public

Modifier: non-static

Return Value: Image

Parameters: None

Description: Method to get an image from the picture

Method: getBasicPixel()

Access Modifier: public

Modifier: non-static

Return Value: int

Parameters: int x, int y

Description: Method to return the pixel value as an int for the given x and y location

Method: setBasicPixel()

Access Modifier: public

Modifier: non-static

Return Value: void

Parameters: int x, int y, int rgb

Description: Method to set the value of a pixel in the picture from an int

Method: getPixel()

Access Modifier: public

Modifier: non-static

Return Value: Pixel

Parameters: int x, int y

Description: Method to get a pixel object for the given x and y location

Method: getPixels()

Access Modifier: public

Modifier: non-static

Return Value: Pixel[]

Parameters: None

Description: Method to get a one-dimensional array of Pixels for this simple picture to y=height-1 and x=0 to x=width-1.

Method: load()

Access Modifier: public

Modifier: non-static

Return Value: void

Parameters: Image image

Description: Method to load the buffered image with the passed image

Method: show()

Access Modifier: public

Modifier: non-static

Return Value: void

Parameters: None

Description: Method to show the picture in a picture frame

Method: hide()

Access Modifier: public

Modifier: non-static

Return Value: void

Parameters: None

Description: Method to hide the picture

Method: setVisible()

Access Modifier: public

Modifier: non-static

Return Value: void

Parameters: boolean flag

Description: Method to make this picture visible or not

Method: explore()

Access Modifier: /\*public

Modifier: non-static

Return Value: void

Parameters: None

Description: Method to open a picture explorer on a copy of this simple picture

Method: repaint()

Access Modifier: public

Modifier: non-static

Return Value: void

Parameters: None

Description: Method to force the picture to redraw itself. This is very useful after you have changed the pixels in a picture.

Method: loadOrFail()

Access Modifier: public

Modifier: non-static

Return Value: void

Parameters: String fileName

Description: Method to load the picture from the passed file name

Method: load()

Access Modifier: public

Modifier: non-static

Return Value: boolean

Parameters: String fileName

Description: Method to write the contents of the picture to a file with the passed name without throwing errors

Method: loadImage()

Access Modifier: public

Modifier: non-static

Return Value: boolean

Parameters: String fileName

Description: Method to load the picture from the passed file name this just calls load(fileName) and is for name compatibility

Method: addMessage()

Access Modifier: public

Modifier: non-static

Return Value: void

Parameters: String message, int xPos, int yPos

Description: Method to draw a message as a string on the buffered image

Method: drawString()

Access Modifier: public

Modifier: non-static

Return Value: void

Parameters: String text, int xPos, int yPos

Description: Method to draw a string at the given location on the picture

Method: scale()

Access Modifier: public

Modifier: non-static

Return Value: Picture

Parameters: double xFactor, double yFactor

Description: Method to create a new picture by scaling the current picture by the given x and y factors

Method: getPictureWithWidth()

Access Modifier: public

Modifier: non-static

Return Value: Picture

Parameters: int width

Description: Method to create a new picture of the passed width. The aspect ratio of the width and height will staythe same.

Method: getPictureWithHeight()

Access Modifier: public

Modifier: non-static

Return Value: Picture

Parameters: int height

Description: Method to create a new picture of the passed height. The aspect ratio of the width and height will stay the same.

Method: loadPictureAndShowIt()

Access Modifier: public

Modifier: non-static

Return Value: boolean

Parameters: String fileName

Description: Method to load a picture from a file name and show it in a picture frame

Method: writeOrFail()

Access Modifier: public

Modifier: non-static

Return Value: void

Parameters: String fileName

Description: Method to write the contents of the picture to a file with the passed name

Method: write()

Access Modifier: public

Modifier: non-static

Return Value: boolean

Parameters: String fileName

Description: Method to write the contents of the picture to a file with the passed name without throwing errors

Method: setMediaPath()

Access Modifier: public

Modifier: static

Return Value: void

Parameters: String directory

Description: Method to set the media path by setting the directory to use

Method: getMediaPath()

Access Modifier: public

Modifier: static

Return Value: String

Parameters: String fileName

Description: Method to get the directory for the media the file name to the media directory

Method: getTransformEnclosingRect()

Access Modifier: public

Modifier: non-static

Return Value: Rectangle2D

Parameters: AffineTransform trans

Description: Method to get the coordinates of the enclosing rectangle after this transformation is applied to the current picture

Method: getTranslationEnclosingRect()

Access Modifier: public

Modifier: non-static

Return Value: Rectangle2D

Parameters: AffineTransform trans

Description: Method to get the coordinates of the enclosing rectangle after this transformation is applied to the current picture

Method: toString()

Access Modifier: public

Modifier: non-static

Return Value: String

Parameters: None

Description: Method to return a string with information about this picture