| | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Tree**](http://docs.google.com/package-tree.html) | [**Deprecated**](http://docs.google.com/deprecated-list.html) | [**Index**](http://docs.google.com/index-all.html) | [**Help**](http://docs.google.com/help-doc.html) | | --- | --- | --- | --- | --- | --- | | |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| [**PREV CLASS**](http://docs.google.com/MovieCapturePanel.html)   [**NEXT CLASS**](http://docs.google.com/MovieMaker.html) | [**FRAMES**](http://docs.google.com/index.html?MovieCapturer.html)    [**NO FRAMES**](http://docs.google.com/MovieCapturer.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | [CONSTR](#3znysh7) | [METHOD](#2et92p0) | DETAIL: FIELD | [CONSTR](#3dy6vkm) | [METHOD](#2s8eyo1) |

## Class MovieCapturer

[java.lang.Object](http://java.sun.com/javase/6/docs/api/java/lang/Object.html?is-external=true)  
 **MovieCapturer**

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

public class **MovieCapturer**extends [Object](http://java.sun.com/javase/6/docs/api/java/lang/Object.html?is-external=true)implements [VideoCapturer](http://docs.google.com/VideoCapturer.html)

Class that captures a movie to a series of jpg frames Copyright Georgia Institute of Technology 2007

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

| **Constructor Summary** | |
| --- | --- |
| [**MovieCapturer**](http://docs.google.com/MovieCapturer.html#MovieCapturer(java.lang.String))([String](http://java.sun.com/javase/6/docs/api/java/lang/String.html?is-external=true) directory)            Constructor that takes the directory to write the frames to |
| [**MovieCapturer**](http://docs.google.com/MovieCapturer.html#MovieCapturer(java.lang.String,%20java.lang.String))([String](http://java.sun.com/javase/6/docs/api/java/lang/String.html?is-external=true) directory, [String](http://java.sun.com/javase/6/docs/api/java/lang/String.html?is-external=true) baseName)            Constructor that takes the directory to write to and the base name to use for the files |

| **Method Summary** | |
| --- | --- |
| void | [**captureMovie**](http://docs.google.com/MovieCapturer.html#captureMovie())()            Method to capture a movie until the done flag is set to true |
| void | [**captureMovie**](http://docs.google.com/MovieCapturer.html#captureMovie(int))(int numSeconds)            Method to capture a movie for the passed number of seconds |
| void | [**captureMovie**](http://docs.google.com/MovieCapturer.html#captureMovie(int,%20int,%20int,%20int))(int x1, int y1, int width, int height)            Method to capture a movie until the done flag is set to true |
| void | [**captureMovie**](http://docs.google.com/MovieCapturer.html#captureMovie(int,%20int,%20int,%20int,%20int))(int x1, int y1, int width, int height, int numSeconds)            Method to capture a movie in a rectangular region for the passed number of seconds |
| [BufferedImage](http://java.sun.com/javase/6/docs/api/java/awt/image/BufferedImage.html?is-external=true) | [**captureRegion**](http://docs.google.com/MovieCapturer.html#captureRegion())()            Method to capture a region of the screen |
| [BufferedImage](http://java.sun.com/javase/6/docs/api/java/awt/image/BufferedImage.html?is-external=true) | [**captureRegion**](http://docs.google.com/MovieCapturer.html#captureRegion(int,%20int,%20int,%20int))(int x1, int y1, int width, int height)            Method to capture a part of the screen |
| [BufferedImage](http://java.sun.com/javase/6/docs/api/java/awt/image/BufferedImage.html?is-external=true) | [**captureScreen**](http://docs.google.com/MovieCapturer.html#captureScreen())()            Method to capture the entire screen |
| [FrameSequencer](http://docs.google.com/FrameSequencer.html) | [**getFrameSequencer**](http://docs.google.com/MovieCapturer.html#getFrameSequencer())()            Method to get the current directory |
| int | [**getFramesPerSecond**](http://docs.google.com/MovieCapturer.html#getFramesPerSecond())()            Method to get the number of frames per second |
| [Rectangle](http://java.sun.com/javase/6/docs/api/java/awt/Rectangle.html?is-external=true) | [**getRegion**](http://docs.google.com/MovieCapturer.html#getRegion())()            Method to get the region to capture |
| static void | [**main**](http://docs.google.com/MovieCapturer.html#main(java.lang.String%5B%5D))([String](http://java.sun.com/javase/6/docs/api/java/lang/String.html?is-external=true)[] args) |
| void | [**playMovie**](http://docs.google.com/MovieCapturer.html#playMovie())()            Method to play the captured movie |
| void | [**run**](http://docs.google.com/MovieCapturer.html#run())()            Method to run the captured movie |
| void | [**setFramesPerSecond**](http://docs.google.com/MovieCapturer.html#setFramesPerSecond(int))(int frameRate)            Method to set the number of frames per second |
| void | [**setRegion**](http://docs.google.com/MovieCapturer.html#setRegion(java.awt.Rectangle))([Rectangle](http://java.sun.com/javase/6/docs/api/java/awt/Rectangle.html?is-external=true) theRegion)            Method to set the region to capture (makes sure that the width and height is a multiple of 4 for compression later |
| void | [**startCapture**](http://docs.google.com/MovieCapturer.html#startCapture())()            Method to start capturing the movie |
| void | [**startCapture**](http://docs.google.com/MovieCapturer.html#startCapture(int))(int numSeconds)            Method to start captureing the movie and continue for the passed number of seconds |
| void | [**stopCapture**](http://docs.google.com/MovieCapturer.html#stopCapture())()            Method to stop capturing the movie |

| **Methods inherited from class java.lang.**[**Object**](http://java.sun.com/javase/6/docs/api/java/lang/Object.html?is-external=true) |
| --- |
| [clone](http://java.sun.com/javase/6/docs/api/java/lang/Object.html?is-external=true#clone()), [equals](http://java.sun.com/javase/6/docs/api/java/lang/Object.html?is-external=true#equals(java.lang.Object)), [finalize](http://java.sun.com/javase/6/docs/api/java/lang/Object.html?is-external=true#finalize()), [getClass](http://java.sun.com/javase/6/docs/api/java/lang/Object.html?is-external=true#getClass()), [hashCode](http://java.sun.com/javase/6/docs/api/java/lang/Object.html?is-external=true#hashCode()), [notify](http://java.sun.com/javase/6/docs/api/java/lang/Object.html?is-external=true#notify()), [notifyAll](http://java.sun.com/javase/6/docs/api/java/lang/Object.html?is-external=true#notifyAll()), [toString](http://java.sun.com/javase/6/docs/api/java/lang/Object.html?is-external=true#toString()), [wait](http://java.sun.com/javase/6/docs/api/java/lang/Object.html?is-external=true#wait()), [wait](http://java.sun.com/javase/6/docs/api/java/lang/Object.html?is-external=true#wait(long)), [wait](http://java.sun.com/javase/6/docs/api/java/lang/Object.html?is-external=true#wait(long,%20int)) |

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

### MovieCapturer

public **MovieCapturer**([String](http://java.sun.com/javase/6/docs/api/java/lang/String.html?is-external=true) directory)

Constructor that takes the directory to write the frames to

**Parameters:**directory - the directory to write to

### MovieCapturer

public **MovieCapturer**([String](http://java.sun.com/javase/6/docs/api/java/lang/String.html?is-external=true) directory,  
 [String](http://java.sun.com/javase/6/docs/api/java/lang/String.html?is-external=true) baseName)

Constructor that takes the directory to write to and the base name to use for the files

**Parameters:**directory - the directory to write tobaseName - the name to use for the files

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

### getFrameSequencer

public [FrameSequencer](http://docs.google.com/FrameSequencer.html) **getFrameSequencer**()

Method to get the current directory

**Specified by:**[getFrameSequencer](http://docs.google.com/VideoCapturer.html#getFrameSequencer()) in interface [VideoCapturer](http://docs.google.com/VideoCapturer.html) **Returns:**the directory name

### getFramesPerSecond

public int **getFramesPerSecond**()

Method to get the number of frames per second

**Specified by:**[getFramesPerSecond](http://docs.google.com/VideoCapturer.html#getFramesPerSecond()) in interface [VideoCapturer](http://docs.google.com/VideoCapturer.html) **Returns:**the number of frames per second

### setFramesPerSecond

public void **setFramesPerSecond**(int frameRate)

Method to set the number of frames per second

**Specified by:**[setFramesPerSecond](http://docs.google.com/VideoCapturer.html#setFramesPerSecond(int)) in interface [VideoCapturer](http://docs.google.com/VideoCapturer.html) **Parameters:**frameRate - the number of frames per second

### getRegion

public [Rectangle](http://java.sun.com/javase/6/docs/api/java/awt/Rectangle.html?is-external=true) **getRegion**()

Method to get the region to capture

**Specified by:**[getRegion](http://docs.google.com/VideoCapturer.html#getRegion()) in interface [VideoCapturer](http://docs.google.com/VideoCapturer.html) **Returns:**the rectangular region to capture

### captureScreen

public [BufferedImage](http://java.sun.com/javase/6/docs/api/java/awt/image/BufferedImage.html?is-external=true) **captureScreen**()  
 throws [Exception](http://java.sun.com/javase/6/docs/api/java/lang/Exception.html?is-external=true)

Method to capture the entire screen

**Specified by:**[captureScreen](http://docs.google.com/VideoCapturer.html#captureScreen()) in interface [VideoCapturer](http://docs.google.com/VideoCapturer.html) **Returns:**the captured buffered image **Throws:** [Exception](http://java.sun.com/javase/6/docs/api/java/lang/Exception.html?is-external=true)

### captureRegion

public [BufferedImage](http://java.sun.com/javase/6/docs/api/java/awt/image/BufferedImage.html?is-external=true) **captureRegion**(int x1,  
 int y1,  
 int width,  
 int height)  
 throws [AWTException](http://java.sun.com/javase/6/docs/api/java/awt/AWTException.html?is-external=true)

Method to capture a part of the screen

**Parameters:**x1 - the top left xy1 - the top left ywidth - the width of the rectangle to captureheight - the height of the rectangle to capture **Returns:**the captured buffered image **Throws:** [AWTException](http://java.sun.com/javase/6/docs/api/java/awt/AWTException.html?is-external=true)

### captureRegion

public [BufferedImage](http://java.sun.com/javase/6/docs/api/java/awt/image/BufferedImage.html?is-external=true) **captureRegion**()  
 throws [Exception](http://java.sun.com/javase/6/docs/api/java/lang/Exception.html?is-external=true)

Method to capture a region of the screen

**Returns:**the region if there is one else the screen **Throws:** [Exception](http://java.sun.com/javase/6/docs/api/java/lang/Exception.html?is-external=true)

### captureMovie

public void **captureMovie**()

Method to capture a movie until the done flag is set to true

### run

public void **run**()

Method to run the captured movie

### captureMovie

public void **captureMovie**(int numSeconds)

Method to capture a movie for the passed number of seconds

**Parameters:**numSeconds - the number of seconds to capture

### captureMovie

public void **captureMovie**(int x1,  
 int y1,  
 int width,  
 int height)

Method to capture a movie until the done flag is set to true

**Parameters:**x1 - the top left x valuey1 - the top left y valuewidth - the width of the region to captureheight - the height of the region to capture

### captureMovie

public void **captureMovie**(int x1,  
 int y1,  
 int width,  
 int height,  
 int numSeconds)

Method to capture a movie in a rectangular region for the passed number of seconds

**Parameters:**x1 - the top left x valuey1 - the top left y valuewidth - the width of the region to captureheight - the height of the region to capturenumSeconds - the number of seconds to capture

### playMovie

public void **playMovie**()

Method to play the captured movie

**Specified by:**[playMovie](http://docs.google.com/VideoCapturer.html#playMovie()) in interface [VideoCapturer](http://docs.google.com/VideoCapturer.html)

### setRegion

public void **setRegion**([Rectangle](http://java.sun.com/javase/6/docs/api/java/awt/Rectangle.html?is-external=true) theRegion)

Method to set the region to capture (makes sure that the width and height is a multiple of 4 for compression later

**Specified by:**[setRegion](http://docs.google.com/VideoCapturer.html#setRegion(java.awt.Rectangle)) in interface [VideoCapturer](http://docs.google.com/VideoCapturer.html) **Parameters:**theRegion - a rectangle that encloses the region to capture

### startCapture

public void **startCapture**()

Method to start capturing the movie

**Specified by:**[startCapture](http://docs.google.com/VideoCapturer.html#startCapture()) in interface [VideoCapturer](http://docs.google.com/VideoCapturer.html)

### startCapture

public void **startCapture**(int numSeconds)

Method to start captureing the movie and continue for the passed number of seconds

**Specified by:**[startCapture](http://docs.google.com/VideoCapturer.html#startCapture(int)) in interface [VideoCapturer](http://docs.google.com/VideoCapturer.html) **Parameters:**numSeconds - the number of seconds to capture

### stopCapture

public void **stopCapture**()

Method to stop capturing the movie

**Specified by:**[stopCapture](http://docs.google.com/VideoCapturer.html#stopCapture()) in interface [VideoCapturer](http://docs.google.com/VideoCapturer.html)

### main

public static void **main**([String](http://java.sun.com/javase/6/docs/api/java/lang/String.html?is-external=true)[] args)

| | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Tree**](http://docs.google.com/package-tree.html) | [**Deprecated**](http://docs.google.com/deprecated-list.html) | [**Index**](http://docs.google.com/index-all.html) | [**Help**](http://docs.google.com/help-doc.html) | | --- | --- | --- | --- | --- | --- | | |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| [**PREV CLASS**](http://docs.google.com/MovieCapturePanel.html)   [**NEXT CLASS**](http://docs.google.com/MovieMaker.html) | [**FRAMES**](http://docs.google.com/index.html?MovieCapturer.html)    [**NO FRAMES**](http://docs.google.com/MovieCapturer.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | [CONSTR](#3znysh7) | [METHOD](#2et92p0) | DETAIL: FIELD | [CONSTR](#3dy6vkm) | [METHOD](#2s8eyo1) |