| | [**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/Pixel.html)   [**NEXT CLASS**](http://docs.google.com/RectangleShape.html) | [**FRAMES**](http://docs.google.com/index.html?Playback.html)    [**NO FRAMES**](http://docs.google.com/Playback.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: [NESTED](#2et92p0) | [FIELD](#3dy6vkm) | [CONSTR](#1t3h5sf) | [METHOD](#4d34og8) | DETAIL: FIELD | [CONSTR](#3rdcrjn) | [METHOD](#lnxbz9) |

## Class Playback

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

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

public class **Playback**extends [Thread](http://java.sun.com/javase/6/docs/api/java/lang/Thread.html?is-external=true)

The class Playback extends from Thread and allows for playback of a simple sound. The thread doesn't die until the sound is finished playing, however it is not blocking either. It will simply play the sound in the "background." Copyright Georgia Institute of Technology 2004

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| **Nested Class Summary** | |
| --- | --- |

| **Nested classes/interfaces inherited from class java.lang.**[**Thread**](http://java.sun.com/javase/6/docs/api/java/lang/Thread.html?is-external=true) |
| --- |
| [Thread.State](http://java.sun.com/javase/6/docs/api/java/lang/Thread.State.html?is-external=true), [Thread.UncaughtExceptionHandler](http://java.sun.com/javase/6/docs/api/java/lang/Thread.UncaughtExceptionHandler.html?is-external=true) |

| **Field Summary** | |
| --- | --- |

| **Fields inherited from class java.lang.**[**Thread**](http://java.sun.com/javase/6/docs/api/java/lang/Thread.html?is-external=true) |
| --- |
| [MAX\_PRIORITY](http://java.sun.com/javase/6/docs/api/java/lang/Thread.html?is-external=true#MAX_PRIORITY), [MIN\_PRIORITY](http://java.sun.com/javase/6/docs/api/java/lang/Thread.html?is-external=true#MIN_PRIORITY), [NORM\_PRIORITY](http://java.sun.com/javase/6/docs/api/java/lang/Thread.html?is-external=true#NORM_PRIORITY) |

| **Constructor Summary** | |
| --- | --- |
| [**Playback**](http://docs.google.com/Playback.html#Playback(SimpleSound))([SimpleSound](http://docs.google.com/SimpleSound.html) sound)            Constructor that takes the simple sound to be played |

| **Method Summary** | |
| --- | --- |
| boolean | [**getPlaying**](http://docs.google.com/Playback.html#getPlaying())()            Method to return true if this playback thread is playing and false otherwise |
| void | [**run**](http://docs.google.com/Playback.html#run())()            Starts this thread. |
| void | [**stopPlaying**](http://docs.google.com/Playback.html#stopPlaying())()            Stops this thread by breaking the while loop in the run method. |

| **Methods inherited from class java.lang.**[**Thread**](http://java.sun.com/javase/6/docs/api/java/lang/Thread.html?is-external=true) |
| --- |
| [activeCount](http://java.sun.com/javase/6/docs/api/java/lang/Thread.html?is-external=true#activeCount()), [checkAccess](http://java.sun.com/javase/6/docs/api/java/lang/Thread.html?is-external=true#checkAccess()), [clone](http://java.sun.com/javase/6/docs/api/java/lang/Thread.html?is-external=true#clone()), [countStackFrames](http://java.sun.com/javase/6/docs/api/java/lang/Thread.html?is-external=true#countStackFrames()), [currentThread](http://java.sun.com/javase/6/docs/api/java/lang/Thread.html?is-external=true#currentThread()), [destroy](http://java.sun.com/javase/6/docs/api/java/lang/Thread.html?is-external=true#destroy()), [dumpStack](http://java.sun.com/javase/6/docs/api/java/lang/Thread.html?is-external=true#dumpStack()), [enumerate](http://java.sun.com/javase/6/docs/api/java/lang/Thread.html?is-external=true#enumerate(java.lang.Thread%5B%5D)), [getAllStackTraces](http://java.sun.com/javase/6/docs/api/java/lang/Thread.html?is-external=true#getAllStackTraces()), [getContextClassLoader](http://java.sun.com/javase/6/docs/api/java/lang/Thread.html?is-external=true#getContextClassLoader()), [getDefaultUncaughtExceptionHandler](http://java.sun.com/javase/6/docs/api/java/lang/Thread.html?is-external=true#getDefaultUncaughtExceptionHandler()), [getId](http://java.sun.com/javase/6/docs/api/java/lang/Thread.html?is-external=true#getId()), [getName](http://java.sun.com/javase/6/docs/api/java/lang/Thread.html?is-external=true#getName()), [getPriority](http://java.sun.com/javase/6/docs/api/java/lang/Thread.html?is-external=true#getPriority()), [getStackTrace](http://java.sun.com/javase/6/docs/api/java/lang/Thread.html?is-external=true#getStackTrace()), [getState](http://java.sun.com/javase/6/docs/api/java/lang/Thread.html?is-external=true#getState()), [getThreadGroup](http://java.sun.com/javase/6/docs/api/java/lang/Thread.html?is-external=true#getThreadGroup()), [getUncaughtExceptionHandler](http://java.sun.com/javase/6/docs/api/java/lang/Thread.html?is-external=true#getUncaughtExceptionHandler()), [holdsLock](http://java.sun.com/javase/6/docs/api/java/lang/Thread.html?is-external=true#holdsLock(java.lang.Object)), [interrupt](http://java.sun.com/javase/6/docs/api/java/lang/Thread.html?is-external=true#interrupt()), [interrupted](http://java.sun.com/javase/6/docs/api/java/lang/Thread.html?is-external=true#interrupted()), [isAlive](http://java.sun.com/javase/6/docs/api/java/lang/Thread.html?is-external=true#isAlive()), [isDaemon](http://java.sun.com/javase/6/docs/api/java/lang/Thread.html?is-external=true#isDaemon()), [isInterrupted](http://java.sun.com/javase/6/docs/api/java/lang/Thread.html?is-external=true#isInterrupted()), [join](http://java.sun.com/javase/6/docs/api/java/lang/Thread.html?is-external=true#join()), [join](http://java.sun.com/javase/6/docs/api/java/lang/Thread.html?is-external=true#join(long)), [join](http://java.sun.com/javase/6/docs/api/java/lang/Thread.html?is-external=true#join(long,%20int)), [resume](http://java.sun.com/javase/6/docs/api/java/lang/Thread.html?is-external=true#resume()), [setContextClassLoader](http://java.sun.com/javase/6/docs/api/java/lang/Thread.html?is-external=true#setContextClassLoader(java.lang.ClassLoader)), [setDaemon](http://java.sun.com/javase/6/docs/api/java/lang/Thread.html?is-external=true#setDaemon(boolean)), [setDefaultUncaughtExceptionHandler](http://java.sun.com/javase/6/docs/api/java/lang/Thread.html?is-external=true#setDefaultUncaughtExceptionHandler(java.lang.Thread.UncaughtExceptionHandler)), [setName](http://java.sun.com/javase/6/docs/api/java/lang/Thread.html?is-external=true#setName(java.lang.String)), [setPriority](http://java.sun.com/javase/6/docs/api/java/lang/Thread.html?is-external=true#setPriority(int)), [setUncaughtExceptionHandler](http://java.sun.com/javase/6/docs/api/java/lang/Thread.html?is-external=true#setUncaughtExceptionHandler(java.lang.Thread.UncaughtExceptionHandler)), [sleep](http://java.sun.com/javase/6/docs/api/java/lang/Thread.html?is-external=true#sleep(long)), [sleep](http://java.sun.com/javase/6/docs/api/java/lang/Thread.html?is-external=true#sleep(long,%20int)), [start](http://java.sun.com/javase/6/docs/api/java/lang/Thread.html?is-external=true#start()), [stop](http://java.sun.com/javase/6/docs/api/java/lang/Thread.html?is-external=true#stop()), [stop](http://java.sun.com/javase/6/docs/api/java/lang/Thread.html?is-external=true#stop(java.lang.Throwable)), [suspend](http://java.sun.com/javase/6/docs/api/java/lang/Thread.html?is-external=true#suspend()), [toString](http://java.sun.com/javase/6/docs/api/java/lang/Thread.html?is-external=true#toString()), [yield](http://java.sun.com/javase/6/docs/api/java/lang/Thread.html?is-external=true#yield()) |

| **Methods inherited from class java.lang.**[**Object**](http://java.sun.com/javase/6/docs/api/java/lang/Object.html?is-external=true) |
| --- |
| [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()), [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** |
| --- |

### Playback

public **Playback**([SimpleSound](http://docs.google.com/SimpleSound.html) sound)

Constructor that takes the simple sound to be played

**Parameters:**sound - the simple sound to play

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

### stopPlaying

public void **stopPlaying**()

Stops this thread by breaking the while loop in the run method. Used, for example, by the "stop" button in the SoundExplorer class.

### getPlaying

public boolean **getPlaying**()

Method to return true if this playback thread is playing and false otherwise

**Returns:**true if playing else false

### run

public void **run**()

Starts this thread. Gets an AudioInputStream, and writes is out to a SourceDataLine. If a SoundExplorer exists, upon creation of the SourceDataLine, the soundExplorer is added as the LineListener. When the thread finishes the run method, it removes itself from the list of threads currently playing this sound.

**Specified by:**[run](http://java.sun.com/javase/6/docs/api/java/lang/Runnable.html?is-external=true#run()) in interface [Runnable](http://java.sun.com/javase/6/docs/api/java/lang/Runnable.html?is-external=true)**Overrides:**[run](http://java.sun.com/javase/6/docs/api/java/lang/Thread.html?is-external=true#run()) in class [Thread](http://java.sun.com/javase/6/docs/api/java/lang/Thread.html?is-external=true) **Throws:** JavaSoundException - if there were problems playing the sound.

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