| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/AudioFileReader.html) | [**Tree**](http://docs.google.com/package-tree.html) | [**Deprecated**](http://docs.google.com/deprecated-list.html) | [**Index**](http://docs.google.com/index-files/index-1.html) | [**Help**](http://docs.google.com/help-doc.html) | | --- | --- | --- | --- | --- | --- | --- | --- | | | ***Java™ Platform***  ***Standard Ed. 6*** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| PREV CLASS   [**NEXT CLASS**](http://docs.google.com/javax/sound/sampled/spi/AudioFileWriter.html) | [**FRAMES**](http://docs.google.com/index.html?javax/sound/sampled/spi/AudioFileReader.html)    [**NO FRAMES**](http://docs.google.com/AudioFileReader.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | [CONSTR](#3znysh7) | [METHOD](#2et92p0) | DETAIL: FIELD | [CONSTR](#3dy6vkm) | [METHOD](#4d34og8) |

## **javax.sound.sampled.spi**

Class AudioFileReader

[java.lang.Object](http://docs.google.com/java/lang/Object.html)  
 **javax.sound.sampled.spi.AudioFileReader**

public abstract class **AudioFileReader**extends [Object](http://docs.google.com/java/lang/Object.html)

Provider for audio file reading services. Classes providing concrete implementations can parse the format information from one or more types of audio file, and can produce audio input streams from files of these types.

**Since:** 1.3

| **Constructor Summary** | |
| --- | --- |
| [**AudioFileReader**](http://docs.google.com/javax/sound/sampled/spi/AudioFileReader.html#AudioFileReader())() |

| **Method Summary** | |
| --- | --- |
| abstract  [AudioFileFormat](http://docs.google.com/javax/sound/sampled/AudioFileFormat.html) | [**getAudioFileFormat**](http://docs.google.com/javax/sound/sampled/spi/AudioFileReader.html#getAudioFileFormat(java.io.File))([File](http://docs.google.com/java/io/File.html) file)            Obtains the audio file format of the File provided. |
| abstract  [AudioFileFormat](http://docs.google.com/javax/sound/sampled/AudioFileFormat.html) | [**getAudioFileFormat**](http://docs.google.com/javax/sound/sampled/spi/AudioFileReader.html#getAudioFileFormat(java.io.InputStream))([InputStream](http://docs.google.com/java/io/InputStream.html) stream)            Obtains the audio file format of the input stream provided. |
| abstract  [AudioFileFormat](http://docs.google.com/javax/sound/sampled/AudioFileFormat.html) | [**getAudioFileFormat**](http://docs.google.com/javax/sound/sampled/spi/AudioFileReader.html#getAudioFileFormat(java.net.URL))([URL](http://docs.google.com/java/net/URL.html) url)            Obtains the audio file format of the URL provided. |
| abstract  [AudioInputStream](http://docs.google.com/javax/sound/sampled/AudioInputStream.html) | [**getAudioInputStream**](http://docs.google.com/javax/sound/sampled/spi/AudioFileReader.html#getAudioInputStream(java.io.File))([File](http://docs.google.com/java/io/File.html) file)            Obtains an audio input stream from the File provided. |
| abstract  [AudioInputStream](http://docs.google.com/javax/sound/sampled/AudioInputStream.html) | [**getAudioInputStream**](http://docs.google.com/javax/sound/sampled/spi/AudioFileReader.html#getAudioInputStream(java.io.InputStream))([InputStream](http://docs.google.com/java/io/InputStream.html) stream)            Obtains an audio input stream from the input stream provided. |
| abstract  [AudioInputStream](http://docs.google.com/javax/sound/sampled/AudioInputStream.html) | [**getAudioInputStream**](http://docs.google.com/javax/sound/sampled/spi/AudioFileReader.html#getAudioInputStream(java.net.URL))([URL](http://docs.google.com/java/net/URL.html) url)            Obtains an audio input stream from the URL provided. |

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

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

### AudioFileReader

public **AudioFileReader**()

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

### getAudioFileFormat

public abstract [AudioFileFormat](http://docs.google.com/javax/sound/sampled/AudioFileFormat.html) **getAudioFileFormat**([InputStream](http://docs.google.com/java/io/InputStream.html) stream)  
 throws [UnsupportedAudioFileException](http://docs.google.com/javax/sound/sampled/UnsupportedAudioFileException.html),  
 [IOException](http://docs.google.com/java/io/IOException.html)

Obtains the audio file format of the input stream provided. The stream must point to valid audio file data. In general, audio file readers may need to read some data from the stream before determining whether they support it. These parsers must be able to mark the stream, read enough data to determine whether they support the stream, and, if not, reset the stream's read pointer to its original position. If the input stream does not support this, this method may fail with an IOException.

**Parameters:**stream - the input stream from which file format information should be extracted **Returns:**an AudioFileFormat object describing the audio file format **Throws:** [UnsupportedAudioFileException](http://docs.google.com/javax/sound/sampled/UnsupportedAudioFileException.html) - if the stream does not point to valid audio file data recognized by the system [IOException](http://docs.google.com/java/io/IOException.html) - if an I/O exception occurs**See Also:**[InputStream.markSupported()](http://docs.google.com/java/io/InputStream.html#markSupported()), [InputStream.mark(int)](http://docs.google.com/java/io/InputStream.html#mark(int))

### getAudioFileFormat

public abstract [AudioFileFormat](http://docs.google.com/javax/sound/sampled/AudioFileFormat.html) **getAudioFileFormat**([URL](http://docs.google.com/java/net/URL.html) url)  
 throws [UnsupportedAudioFileException](http://docs.google.com/javax/sound/sampled/UnsupportedAudioFileException.html),  
 [IOException](http://docs.google.com/java/io/IOException.html)

Obtains the audio file format of the URL provided. The URL must point to valid audio file data.

**Parameters:**url - the URL from which file format information should be extracted **Returns:**an AudioFileFormat object describing the audio file format **Throws:** [UnsupportedAudioFileException](http://docs.google.com/javax/sound/sampled/UnsupportedAudioFileException.html) - if the URL does not point to valid audio file data recognized by the system [IOException](http://docs.google.com/java/io/IOException.html) - if an I/O exception occurs

### getAudioFileFormat

public abstract [AudioFileFormat](http://docs.google.com/javax/sound/sampled/AudioFileFormat.html) **getAudioFileFormat**([File](http://docs.google.com/java/io/File.html) file)  
 throws [UnsupportedAudioFileException](http://docs.google.com/javax/sound/sampled/UnsupportedAudioFileException.html),  
 [IOException](http://docs.google.com/java/io/IOException.html)

Obtains the audio file format of the File provided. The File must point to valid audio file data.

**Parameters:**file - the File from which file format information should be extracted **Returns:**an AudioFileFormat object describing the audio file format **Throws:** [UnsupportedAudioFileException](http://docs.google.com/javax/sound/sampled/UnsupportedAudioFileException.html) - if the File does not point to valid audio file data recognized by the system [IOException](http://docs.google.com/java/io/IOException.html) - if an I/O exception occurs

### getAudioInputStream

public abstract [AudioInputStream](http://docs.google.com/javax/sound/sampled/AudioInputStream.html) **getAudioInputStream**([InputStream](http://docs.google.com/java/io/InputStream.html) stream)  
 throws [UnsupportedAudioFileException](http://docs.google.com/javax/sound/sampled/UnsupportedAudioFileException.html),  
 [IOException](http://docs.google.com/java/io/IOException.html)

Obtains an audio input stream from the input stream provided. The stream must point to valid audio file data. In general, audio file readers may need to read some data from the stream before determining whether they support it. These parsers must be able to mark the stream, read enough data to determine whether they support the stream, and, if not, reset the stream's read pointer to its original position. If the input stream does not support this, this method may fail with an IOException.

**Parameters:**stream - the input stream from which the AudioInputStream should be constructed **Returns:**an AudioInputStream object based on the audio file data contained in the input stream. **Throws:** [UnsupportedAudioFileException](http://docs.google.com/javax/sound/sampled/UnsupportedAudioFileException.html) - if the stream does not point to valid audio file data recognized by the system [IOException](http://docs.google.com/java/io/IOException.html) - if an I/O exception occurs**See Also:**[InputStream.markSupported()](http://docs.google.com/java/io/InputStream.html#markSupported()), [InputStream.mark(int)](http://docs.google.com/java/io/InputStream.html#mark(int))

### getAudioInputStream

public abstract [AudioInputStream](http://docs.google.com/javax/sound/sampled/AudioInputStream.html) **getAudioInputStream**([URL](http://docs.google.com/java/net/URL.html) url)  
 throws [UnsupportedAudioFileException](http://docs.google.com/javax/sound/sampled/UnsupportedAudioFileException.html),  
 [IOException](http://docs.google.com/java/io/IOException.html)

Obtains an audio input stream from the URL provided. The URL must point to valid audio file data.

**Parameters:**url - the URL for which the AudioInputStream should be constructed **Returns:**an AudioInputStream object based on the audio file data pointed to by the URL **Throws:** [UnsupportedAudioFileException](http://docs.google.com/javax/sound/sampled/UnsupportedAudioFileException.html) - if the URL does not point to valid audio file data recognized by the system [IOException](http://docs.google.com/java/io/IOException.html) - if an I/O exception occurs

### getAudioInputStream

public abstract [AudioInputStream](http://docs.google.com/javax/sound/sampled/AudioInputStream.html) **getAudioInputStream**([File](http://docs.google.com/java/io/File.html) file)  
 throws [UnsupportedAudioFileException](http://docs.google.com/javax/sound/sampled/UnsupportedAudioFileException.html),  
 [IOException](http://docs.google.com/java/io/IOException.html)

Obtains an audio input stream from the File provided. The File must point to valid audio file data.

**Parameters:**file - the File for which the AudioInputStream should be constructed **Returns:**an AudioInputStream object based on the audio file data pointed to by the File **Throws:** [UnsupportedAudioFileException](http://docs.google.com/javax/sound/sampled/UnsupportedAudioFileException.html) - if the File does not point to valid audio file data recognized by the system [IOException](http://docs.google.com/java/io/IOException.html) - if an I/O exception occurs

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/AudioFileReader.html) | [**Tree**](http://docs.google.com/package-tree.html) | [**Deprecated**](http://docs.google.com/deprecated-list.html) | [**Index**](http://docs.google.com/index-files/index-1.html) | [**Help**](http://docs.google.com/help-doc.html) | | --- | --- | --- | --- | --- | --- | --- | --- | | | ***Java™ Platform***  ***Standard Ed. 6*** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| PREV CLASS   [**NEXT CLASS**](http://docs.google.com/javax/sound/sampled/spi/AudioFileWriter.html) | [**FRAMES**](http://docs.google.com/index.html?javax/sound/sampled/spi/AudioFileReader.html)    [**NO FRAMES**](http://docs.google.com/AudioFileReader.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | [CONSTR](#3znysh7) | [METHOD](#2et92p0) | DETAIL: FIELD | [CONSTR](#3dy6vkm) | [METHOD](#4d34og8) |

[Submit a bug or feature](http://bugs.sun.com/services/bugreport/index.jsp)

For further API reference and developer documentation, see [Java SE Developer Documentation](http://docs.google.com/webnotes/devdocs-vs-specs.html). That documentation contains more detailed, developer-targeted descriptions, with conceptual overviews, definitions of terms, workarounds, and working code examples.

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