| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/FileImageInputStream.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**](http://docs.google.com/javax/imageio/stream/FileCacheImageOutputStream.html)   [**NEXT CLASS**](http://docs.google.com/javax/imageio/stream/FileImageOutputStream.html) | [**FRAMES**](http://docs.google.com/index.html?javax/imageio/stream/FileImageInputStream.html)    [**NO FRAMES**](http://docs.google.com/FileImageInputStream.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#2et92p0) | [CONSTR](#tyjcwt) | [METHOD](#3dy6vkm) | DETAIL: FIELD | [CONSTR](#2s8eyo1) | [METHOD](#26in1rg) |

## **javax.imageio.stream**

Class FileImageInputStream

[java.lang.Object](http://docs.google.com/java/lang/Object.html)  
 [javax.imageio.stream.ImageInputStreamImpl](http://docs.google.com/javax/imageio/stream/ImageInputStreamImpl.html)  
 **javax.imageio.stream.FileImageInputStream**

**All Implemented Interfaces:** [DataInput](http://docs.google.com/java/io/DataInput.html), [ImageInputStream](http://docs.google.com/javax/imageio/stream/ImageInputStream.html)

public class **FileImageInputStream**extends [ImageInputStreamImpl](http://docs.google.com/javax/imageio/stream/ImageInputStreamImpl.html)

An implementation of ImageInputStream that gets its input from a File or RandomAccessFile. The file contents are assumed to be stable during the lifetime of the object.

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

| **Fields inherited from class javax.imageio.stream.**[**ImageInputStreamImpl**](http://docs.google.com/javax/imageio/stream/ImageInputStreamImpl.html) |
| --- |
| [bitOffset](http://docs.google.com/javax/imageio/stream/ImageInputStreamImpl.html#bitOffset), [byteOrder](http://docs.google.com/javax/imageio/stream/ImageInputStreamImpl.html#byteOrder), [flushedPos](http://docs.google.com/javax/imageio/stream/ImageInputStreamImpl.html#flushedPos), [streamPos](http://docs.google.com/javax/imageio/stream/ImageInputStreamImpl.html#streamPos) |

| **Constructor Summary** | |
| --- | --- |
| [**FileImageInputStream**](http://docs.google.com/javax/imageio/stream/FileImageInputStream.html#FileImageInputStream(java.io.File))([File](http://docs.google.com/java/io/File.html) f)            Constructs a FileImageInputStream that will read from a given File. |
| [**FileImageInputStream**](http://docs.google.com/javax/imageio/stream/FileImageInputStream.html#FileImageInputStream(java.io.RandomAccessFile))([RandomAccessFile](http://docs.google.com/java/io/RandomAccessFile.html) raf)            Constructs a FileImageInputStream that will read from a given RandomAccessFile. |

| **Method Summary** | |
| --- | --- |
| void | [**close**](http://docs.google.com/javax/imageio/stream/FileImageInputStream.html#close())()            Closes the stream. |
| protected  void | [**finalize**](http://docs.google.com/javax/imageio/stream/FileImageInputStream.html#finalize())()            Finalizes this object prior to garbage collection. |
| long | [**length**](http://docs.google.com/javax/imageio/stream/FileImageInputStream.html#length())()            Returns the length of the underlying file, or -1 if it is unknown. |
| int | [**read**](http://docs.google.com/javax/imageio/stream/FileImageInputStream.html#read())()            Reads a single byte from the stream and returns it as an int between 0 and 255. |
| int | [**read**](http://docs.google.com/javax/imageio/stream/FileImageInputStream.html#read(byte%5B%5D,%20int,%20int))(byte[] b, int off, int len)            Reads up to len bytes from the stream, and stores them into b starting at index off. |
| void | [**seek**](http://docs.google.com/javax/imageio/stream/FileImageInputStream.html#seek(long))(long pos)            Sets the current stream position to the desired location. |

| **Methods inherited from class javax.imageio.stream.**[**ImageInputStreamImpl**](http://docs.google.com/javax/imageio/stream/ImageInputStreamImpl.html) |
| --- |
| [checkClosed](http://docs.google.com/javax/imageio/stream/ImageInputStreamImpl.html#checkClosed()), [flush](http://docs.google.com/javax/imageio/stream/ImageInputStreamImpl.html#flush()), [flushBefore](http://docs.google.com/javax/imageio/stream/ImageInputStreamImpl.html#flushBefore(long)), [getBitOffset](http://docs.google.com/javax/imageio/stream/ImageInputStreamImpl.html#getBitOffset()), [getByteOrder](http://docs.google.com/javax/imageio/stream/ImageInputStreamImpl.html#getByteOrder()), [getFlushedPosition](http://docs.google.com/javax/imageio/stream/ImageInputStreamImpl.html#getFlushedPosition()), [getStreamPosition](http://docs.google.com/javax/imageio/stream/ImageInputStreamImpl.html#getStreamPosition()), [isCached](http://docs.google.com/javax/imageio/stream/ImageInputStreamImpl.html#isCached()), [isCachedFile](http://docs.google.com/javax/imageio/stream/ImageInputStreamImpl.html#isCachedFile()), [isCachedMemory](http://docs.google.com/javax/imageio/stream/ImageInputStreamImpl.html#isCachedMemory()), [mark](http://docs.google.com/javax/imageio/stream/ImageInputStreamImpl.html#mark()), [read](http://docs.google.com/javax/imageio/stream/ImageInputStreamImpl.html#read(byte%5B%5D)), [readBit](http://docs.google.com/javax/imageio/stream/ImageInputStreamImpl.html#readBit()), [readBits](http://docs.google.com/javax/imageio/stream/ImageInputStreamImpl.html#readBits(int)), [readBoolean](http://docs.google.com/javax/imageio/stream/ImageInputStreamImpl.html#readBoolean()), [readByte](http://docs.google.com/javax/imageio/stream/ImageInputStreamImpl.html#readByte()), [readBytes](http://docs.google.com/javax/imageio/stream/ImageInputStreamImpl.html#readBytes(javax.imageio.stream.IIOByteBuffer,%20int)), [readChar](http://docs.google.com/javax/imageio/stream/ImageInputStreamImpl.html#readChar()), [readDouble](http://docs.google.com/javax/imageio/stream/ImageInputStreamImpl.html#readDouble()), [readFloat](http://docs.google.com/javax/imageio/stream/ImageInputStreamImpl.html#readFloat()), [readFully](http://docs.google.com/javax/imageio/stream/ImageInputStreamImpl.html#readFully(byte%5B%5D)), [readFully](http://docs.google.com/javax/imageio/stream/ImageInputStreamImpl.html#readFully(byte%5B%5D,%20int,%20int)), [readFully](http://docs.google.com/javax/imageio/stream/ImageInputStreamImpl.html#readFully(char%5B%5D,%20int,%20int)), [readFully](http://docs.google.com/javax/imageio/stream/ImageInputStreamImpl.html#readFully(double%5B%5D,%20int,%20int)), [readFully](http://docs.google.com/javax/imageio/stream/ImageInputStreamImpl.html#readFully(float%5B%5D,%20int,%20int)), [readFully](http://docs.google.com/javax/imageio/stream/ImageInputStreamImpl.html#readFully(int%5B%5D,%20int,%20int)), [readFully](http://docs.google.com/javax/imageio/stream/ImageInputStreamImpl.html#readFully(long%5B%5D,%20int,%20int)), [readFully](http://docs.google.com/javax/imageio/stream/ImageInputStreamImpl.html#readFully(short%5B%5D,%20int,%20int)), [readInt](http://docs.google.com/javax/imageio/stream/ImageInputStreamImpl.html#readInt()), [readLine](http://docs.google.com/javax/imageio/stream/ImageInputStreamImpl.html#readLine()), [readLong](http://docs.google.com/javax/imageio/stream/ImageInputStreamImpl.html#readLong()), [readShort](http://docs.google.com/javax/imageio/stream/ImageInputStreamImpl.html#readShort()), [readUnsignedByte](http://docs.google.com/javax/imageio/stream/ImageInputStreamImpl.html#readUnsignedByte()), [readUnsignedInt](http://docs.google.com/javax/imageio/stream/ImageInputStreamImpl.html#readUnsignedInt()), [readUnsignedShort](http://docs.google.com/javax/imageio/stream/ImageInputStreamImpl.html#readUnsignedShort()), [readUTF](http://docs.google.com/javax/imageio/stream/ImageInputStreamImpl.html#readUTF()), [reset](http://docs.google.com/javax/imageio/stream/ImageInputStreamImpl.html#reset()), [setBitOffset](http://docs.google.com/javax/imageio/stream/ImageInputStreamImpl.html#setBitOffset(int)), [setByteOrder](http://docs.google.com/javax/imageio/stream/ImageInputStreamImpl.html#setByteOrder(java.nio.ByteOrder)), [skipBytes](http://docs.google.com/javax/imageio/stream/ImageInputStreamImpl.html#skipBytes(int)), [skipBytes](http://docs.google.com/javax/imageio/stream/ImageInputStreamImpl.html#skipBytes(long)) |

| **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)), [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** |
| --- |

### FileImageInputStream

public **FileImageInputStream**([File](http://docs.google.com/java/io/File.html) f)  
 throws [FileNotFoundException](http://docs.google.com/java/io/FileNotFoundException.html),  
 [IOException](http://docs.google.com/java/io/IOException.html)

Constructs a FileImageInputStream that will read from a given File.

The file contents must not change between the time this object is constructed and the time of the last call to a read method.

**Parameters:**f - a File to read from. **Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - if f is null. [SecurityException](http://docs.google.com/java/lang/SecurityException.html) - if a security manager exists and does not allow read access to the file. [FileNotFoundException](http://docs.google.com/java/io/FileNotFoundException.html) - if f is a directory or cannot be opened for reading for any other reason. [IOException](http://docs.google.com/java/io/IOException.html) - if an I/O error occurs.

### FileImageInputStream

public **FileImageInputStream**([RandomAccessFile](http://docs.google.com/java/io/RandomAccessFile.html) raf)

Constructs a FileImageInputStream that will read from a given RandomAccessFile.

The file contents must not change between the time this object is constructed and the time of the last call to a read method.

**Parameters:**raf - a RandomAccessFile to read from. **Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - if raf is null.

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

### read

public int **read**()  
 throws [IOException](http://docs.google.com/java/io/IOException.html)

**Description copied from class:** [**ImageInputStreamImpl**](http://docs.google.com/javax/imageio/stream/ImageInputStreamImpl.html#read()) Reads a single byte from the stream and returns it as an int between 0 and 255. If EOF is reached, -1 is returned.

Subclasses must provide an implementation for this method. The subclass implementation should update the stream position before exiting.

The bit offset within the stream must be reset to zero before the read occurs.

**Specified by:**[read](http://docs.google.com/javax/imageio/stream/ImageInputStream.html#read()) in interface [ImageInputStream](http://docs.google.com/javax/imageio/stream/ImageInputStream.html)**Specified by:**[read](http://docs.google.com/javax/imageio/stream/ImageInputStreamImpl.html#read()) in class [ImageInputStreamImpl](http://docs.google.com/javax/imageio/stream/ImageInputStreamImpl.html) **Returns:**the value of the next byte in the stream, or -1 if EOF is reached. **Throws:** [IOException](http://docs.google.com/java/io/IOException.html) - if the stream has been closed.

### read

public int **read**(byte[] b,  
 int off,  
 int len)  
 throws [IOException](http://docs.google.com/java/io/IOException.html)

**Description copied from class:** [**ImageInputStreamImpl**](http://docs.google.com/javax/imageio/stream/ImageInputStreamImpl.html#read(byte%5B%5D,%20int,%20int)) Reads up to len bytes from the stream, and stores them into b starting at index off. If no bytes can be read because the end of the stream has been reached, -1 is returned.

The bit offset within the stream must be reset to zero before the read occurs.

Subclasses must provide an implementation for this method. The subclass implementation should update the stream position before exiting.

**Specified by:**[read](http://docs.google.com/javax/imageio/stream/ImageInputStream.html#read(byte%5B%5D,%20int,%20int)) in interface [ImageInputStream](http://docs.google.com/javax/imageio/stream/ImageInputStream.html)**Specified by:**[read](http://docs.google.com/javax/imageio/stream/ImageInputStreamImpl.html#read(byte%5B%5D,%20int,%20int)) in class [ImageInputStreamImpl](http://docs.google.com/javax/imageio/stream/ImageInputStreamImpl.html) **Parameters:**b - an array of bytes to be written to.off - the starting position within b to write to.len - the maximum number of bytes to read. **Returns:**the number of bytes actually read, or -1 to indicate EOF. **Throws:** [IOException](http://docs.google.com/java/io/IOException.html) - if an I/O error occurs.

### length

public long **length**()

Returns the length of the underlying file, or -1 if it is unknown.

**Specified by:**[length](http://docs.google.com/javax/imageio/stream/ImageInputStream.html#length()) in interface [ImageInputStream](http://docs.google.com/javax/imageio/stream/ImageInputStream.html)**Overrides:**[length](http://docs.google.com/javax/imageio/stream/ImageInputStreamImpl.html#length()) in class [ImageInputStreamImpl](http://docs.google.com/javax/imageio/stream/ImageInputStreamImpl.html) **Returns:**the file length as a long, or -1.

### seek

public void **seek**(long pos)  
 throws [IOException](http://docs.google.com/java/io/IOException.html)

**Description copied from interface:** [**ImageInputStream**](http://docs.google.com/javax/imageio/stream/ImageInputStream.html#seek(long)) Sets the current stream position to the desired location. The next read will occur at this location. The bit offset is set to 0.

An IndexOutOfBoundsException will be thrown if pos is smaller than the flushed position (as returned by getflushedPosition).

It is legal to seek past the end of the file; an EOFException will be thrown only if a read is performed.

**Specified by:**[seek](http://docs.google.com/javax/imageio/stream/ImageInputStream.html#seek(long)) in interface [ImageInputStream](http://docs.google.com/javax/imageio/stream/ImageInputStream.html)**Overrides:**[seek](http://docs.google.com/javax/imageio/stream/ImageInputStreamImpl.html#seek(long)) in class [ImageInputStreamImpl](http://docs.google.com/javax/imageio/stream/ImageInputStreamImpl.html) **Parameters:**pos - a long containing the desired file pointer position. **Throws:** [IOException](http://docs.google.com/java/io/IOException.html) - if any other I/O error occurs.

### close

public void **close**()  
 throws [IOException](http://docs.google.com/java/io/IOException.html)

**Description copied from interface:** [**ImageInputStream**](http://docs.google.com/javax/imageio/stream/ImageInputStream.html#close()) Closes the stream. Attempts to access a stream that has been closed may result in IOExceptions or incorrect behavior. Calling this method may allow classes implementing this interface to release resources associated with the stream such as memory, disk space, or file descriptors.

**Specified by:**[close](http://docs.google.com/javax/imageio/stream/ImageInputStream.html#close()) in interface [ImageInputStream](http://docs.google.com/javax/imageio/stream/ImageInputStream.html)**Overrides:**[close](http://docs.google.com/javax/imageio/stream/ImageInputStreamImpl.html#close()) in class [ImageInputStreamImpl](http://docs.google.com/javax/imageio/stream/ImageInputStreamImpl.html) **Throws:** [IOException](http://docs.google.com/java/io/IOException.html) - if an I/O error occurs.

### finalize

protected void **finalize**()  
 throws [Throwable](http://docs.google.com/java/lang/Throwable.html)

Finalizes this object prior to garbage collection. The close method is called to close any open input source. This method should not be called from application code.

**Overrides:**[finalize](http://docs.google.com/javax/imageio/stream/ImageInputStreamImpl.html#finalize()) in class [ImageInputStreamImpl](http://docs.google.com/javax/imageio/stream/ImageInputStreamImpl.html) **Throws:** [Throwable](http://docs.google.com/java/lang/Throwable.html) - if an error occurs during superclass finalization.

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/FileImageInputStream.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*** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
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| SUMMARY: NESTED | [FIELD](#2et92p0) | [CONSTR](#tyjcwt) | [METHOD](#3dy6vkm) | DETAIL: FIELD | [CONSTR](#2s8eyo1) | [METHOD](#26in1rg) |

[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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