| | [**Overview**](http://docs.google.com/overview-summary.html) | **Package** | Class | [**Use**](http://docs.google.com/package-use.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 PACKAGE**](http://docs.google.com/javax/imageio/spi/package-summary.html)   [**NEXT PACKAGE**](http://docs.google.com/javax/jws/package-summary.html) | [**FRAMES**](http://docs.google.com/index.html?javax/imageio/stream/package-summary.html)    [**NO FRAMES**](http://docs.google.com/package-summary.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |

## Package javax.imageio.stream

A package of the Java Image I/O API dealing with low-level I/O from files and streams.

**See:**

[**Description**](#3znysh7)

| **Interface Summary** | |
| --- | --- |
| [**ImageInputStream**](http://docs.google.com/javax/imageio/stream/ImageInputStream.html) | A seekable input stream interface for use by ImageReaders. |
| [**ImageOutputStream**](http://docs.google.com/javax/imageio/stream/ImageOutputStream.html) | A seekable output stream interface for use by ImageWriters. |

| **Class Summary** | |
| --- | --- |
| [**FileCacheImageInputStream**](http://docs.google.com/javax/imageio/stream/FileCacheImageInputStream.html) | An implementation of ImageInputStream that gets its input from a regular InputStream. |
| [**FileCacheImageOutputStream**](http://docs.google.com/javax/imageio/stream/FileCacheImageOutputStream.html) | An implementation of ImageOutputStream that writes its output to a regular OutputStream. |
| [**FileImageInputStream**](http://docs.google.com/javax/imageio/stream/FileImageInputStream.html) | An implementation of ImageInputStream that gets its input from a File or RandomAccessFile. |
| [**FileImageOutputStream**](http://docs.google.com/javax/imageio/stream/FileImageOutputStream.html) | An implementation of ImageOutputStream that writes its output directly to a File or RandomAccessFile. |
| [**IIOByteBuffer**](http://docs.google.com/javax/imageio/stream/IIOByteBuffer.html) | A class representing a mutable reference to an array of bytes and an offset and length within that array. |
| [**ImageInputStreamImpl**](http://docs.google.com/javax/imageio/stream/ImageInputStreamImpl.html) | An abstract class implementing the ImageInputStream interface. |
| [**ImageOutputStreamImpl**](http://docs.google.com/javax/imageio/stream/ImageOutputStreamImpl.html) | An abstract class implementing the ImageOutputStream interface. |
| [**MemoryCacheImageInputStream**](http://docs.google.com/javax/imageio/stream/MemoryCacheImageInputStream.html) | An implementation of ImageInputStream that gets its input from a regular InputStream. |
| [**MemoryCacheImageOutputStream**](http://docs.google.com/javax/imageio/stream/MemoryCacheImageOutputStream.html) | An implementation of ImageOutputStream that writes its output to a regular OutputStream. |

## Package javax.imageio.stream Description

A package of the Java Image I/O API dealing with low-level I/O from files and streams.

The ImageInputStream interface unifies streaming and file-based operations. An abstract base class, ImageInputStreamImpl is provided to simplify writing a new ImageInputStream class. Concrete implementation classes (FileImageInputStream, FileCacheImageInputStream, and MemoryCacheImageInputStream) are provided that allow input to come from a File or InputStream with or without the use of a temporary cache file.

The ImageOutputStream interface performs an analogous function for output. An abstract base class, ImageOutputStreamImpl is provided, along with concrete implementation classes (FileImageOutputStream, FileCacheImageOutputStream, and MemoryCacheImageOutputStream) are provided that allow output to go to a File or OutputStream with or without the use of a temporary cache file.

The IIOByteBuffer class provides an alternative way to perform reads of sequences of bytes that reduces the amount of internal data copying.

**Since:** 1.4

| | [**Overview**](http://docs.google.com/overview-summary.html) | **Package** | Class | [**Use**](http://docs.google.com/package-use.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 PACKAGE**](http://docs.google.com/javax/imageio/spi/package-summary.html)   [**NEXT PACKAGE**](http://docs.google.com/javax/jws/package-summary.html) | [**FRAMES**](http://docs.google.com/index.html?javax/imageio/stream/package-summary.html)    [**NO FRAMES**](http://docs.google.com/package-summary.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |

[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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