| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | Class | **Use** | [**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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| PREV   NEXT | [**FRAMES**](http://docs.google.com/index.html?java/nio/channels/package-use.html)    [**NO FRAMES**](http://docs.google.com/package-use.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |

**Uses of Package**

**java.nio.channels**

| Packages that use [java.nio.channels](http://docs.google.com/java/nio/channels/package-summary.html) | |
| --- | --- |
| [**java.io**](#3znysh7) | Provides for system input and output through data streams, serialization and the file system. |
| [**java.lang**](#2et92p0) | Provides classes that are fundamental to the design of the Java programming language. |
| [**java.net**](#tyjcwt) | Provides the classes for implementing networking applications. |
| [**java.nio.channels**](#3dy6vkm) | Defines channels, which represent connections to entities that are capable of performing I/O operations, such as files and sockets; defines selectors, for multiplexed, non-blocking I/O operations. |
| [**java.nio.channels.spi**](#1t3h5sf) | Service-provider classes for the [java.nio.channels](http://docs.google.com/java/nio/channels/package-summary.html) package. |
| [**java.util**](#4d34og8) | Contains the collections framework, legacy collection classes, event model, date and time facilities, internationalization, and miscellaneous utility classes (a string tokenizer, a random-number generator, and a bit array). |

| Classes in [java.nio.channels](http://docs.google.com/java/nio/channels/package-summary.html) used by [java.io](http://docs.google.com/java/io/package-summary.html) | |
| --- | --- |
| [**FileChannel**](http://docs.google.com/java/nio/channels/class-use/FileChannel.html#java.io)            A channel for reading, writing, mapping, and manipulating a file. |

| Classes in [java.nio.channels](http://docs.google.com/java/nio/channels/package-summary.html) used by [java.lang](http://docs.google.com/java/lang/package-summary.html) | |
| --- | --- |
| [**Channel**](http://docs.google.com/java/nio/channels/class-use/Channel.html#java.lang)            A nexus for I/O operations. |

| Classes in [java.nio.channels](http://docs.google.com/java/nio/channels/package-summary.html) used by [java.net](http://docs.google.com/java/net/package-summary.html) | |
| --- | --- |
| [**DatagramChannel**](http://docs.google.com/java/nio/channels/class-use/DatagramChannel.html#java.net)            A selectable channel for datagram-oriented sockets. |
| [**ServerSocketChannel**](http://docs.google.com/java/nio/channels/class-use/ServerSocketChannel.html#java.net)            A selectable channel for stream-oriented listening sockets. |
| [**SocketChannel**](http://docs.google.com/java/nio/channels/class-use/SocketChannel.html#java.net)            A selectable channel for stream-oriented connecting sockets. |

| Classes in [java.nio.channels](http://docs.google.com/java/nio/channels/package-summary.html) used by [java.nio.channels](http://docs.google.com/java/nio/channels/package-summary.html) | |
| --- | --- |
| [**AsynchronousCloseException**](http://docs.google.com/java/nio/channels/class-use/AsynchronousCloseException.html#java.nio.channels)            Checked exception received by a thread when another thread closes the channel or the part of the channel upon which it is blocked in an I/O operation. |
| [**ByteChannel**](http://docs.google.com/java/nio/channels/class-use/ByteChannel.html#java.nio.channels)            A channel that can read and write bytes. |
| [**Channel**](http://docs.google.com/java/nio/channels/class-use/Channel.html#java.nio.channels)            A nexus for I/O operations. |
| [**ClosedChannelException**](http://docs.google.com/java/nio/channels/class-use/ClosedChannelException.html#java.nio.channels)            Checked exception thrown when an attempt is made to invoke or complete an I/O operation upon channel that is closed, or at least closed to that operation. |
| [**DatagramChannel**](http://docs.google.com/java/nio/channels/class-use/DatagramChannel.html#java.nio.channels)            A selectable channel for datagram-oriented sockets. |
| [**FileChannel**](http://docs.google.com/java/nio/channels/class-use/FileChannel.html#java.nio.channels)            A channel for reading, writing, mapping, and manipulating a file. |
| [**FileChannel.MapMode**](http://docs.google.com/java/nio/channels/class-use/FileChannel.MapMode.html#java.nio.channels)            A typesafe enumeration for file-mapping modes. |
| [**FileLock**](http://docs.google.com/java/nio/channels/class-use/FileLock.html#java.nio.channels)            A token representing a lock on a region of a file. |
| [**GatheringByteChannel**](http://docs.google.com/java/nio/channels/class-use/GatheringByteChannel.html#java.nio.channels)            A channel that can write bytes from a sequence of buffers. |
| [**InterruptibleChannel**](http://docs.google.com/java/nio/channels/class-use/InterruptibleChannel.html#java.nio.channels)            A channel that can be asynchronously closed and interrupted. |
| [**Pipe**](http://docs.google.com/java/nio/channels/class-use/Pipe.html#java.nio.channels)            A pair of channels that implements a unidirectional pipe. |
| [**Pipe.SinkChannel**](http://docs.google.com/java/nio/channels/class-use/Pipe.SinkChannel.html#java.nio.channels)            A channel representing the writable end of a [Pipe](http://docs.google.com/java/nio/channels/Pipe.html). |
| [**Pipe.SourceChannel**](http://docs.google.com/java/nio/channels/class-use/Pipe.SourceChannel.html#java.nio.channels)            A channel representing the readable end of a [Pipe](http://docs.google.com/java/nio/channels/Pipe.html). |
| [**ReadableByteChannel**](http://docs.google.com/java/nio/channels/class-use/ReadableByteChannel.html#java.nio.channels)            A channel that can read bytes. |
| [**ScatteringByteChannel**](http://docs.google.com/java/nio/channels/class-use/ScatteringByteChannel.html#java.nio.channels)            A channel that can read bytes into a sequence of buffers. |
| [**SelectableChannel**](http://docs.google.com/java/nio/channels/class-use/SelectableChannel.html#java.nio.channels)            A channel that can be multiplexed via a [Selector](http://docs.google.com/java/nio/channels/Selector.html). |
| [**SelectionKey**](http://docs.google.com/java/nio/channels/class-use/SelectionKey.html#java.nio.channels)            A token representing the registration of a [SelectableChannel](http://docs.google.com/java/nio/channels/SelectableChannel.html) with a [Selector](http://docs.google.com/java/nio/channels/Selector.html). |
| [**Selector**](http://docs.google.com/java/nio/channels/class-use/Selector.html#java.nio.channels)            A multiplexor of [SelectableChannel](http://docs.google.com/java/nio/channels/SelectableChannel.html) objects. |
| [**ServerSocketChannel**](http://docs.google.com/java/nio/channels/class-use/ServerSocketChannel.html#java.nio.channels)            A selectable channel for stream-oriented listening sockets. |
| [**SocketChannel**](http://docs.google.com/java/nio/channels/class-use/SocketChannel.html#java.nio.channels)            A selectable channel for stream-oriented connecting sockets. |
| [**WritableByteChannel**](http://docs.google.com/java/nio/channels/class-use/WritableByteChannel.html#java.nio.channels)            A channel that can write bytes. |

| Classes in [java.nio.channels](http://docs.google.com/java/nio/channels/package-summary.html) used by [java.nio.channels.spi](http://docs.google.com/java/nio/channels/spi/package-summary.html) | |
| --- | --- |
| [**AsynchronousCloseException**](http://docs.google.com/java/nio/channels/class-use/AsynchronousCloseException.html#java.nio.channels.spi)            Checked exception received by a thread when another thread closes the channel or the part of the channel upon which it is blocked in an I/O operation. |
| [**Channel**](http://docs.google.com/java/nio/channels/class-use/Channel.html#java.nio.channels.spi)            A nexus for I/O operations. |
| [**ClosedChannelException**](http://docs.google.com/java/nio/channels/class-use/ClosedChannelException.html#java.nio.channels.spi)            Checked exception thrown when an attempt is made to invoke or complete an I/O operation upon channel that is closed, or at least closed to that operation. |
| [**DatagramChannel**](http://docs.google.com/java/nio/channels/class-use/DatagramChannel.html#java.nio.channels.spi)            A selectable channel for datagram-oriented sockets. |
| [**InterruptibleChannel**](http://docs.google.com/java/nio/channels/class-use/InterruptibleChannel.html#java.nio.channels.spi)            A channel that can be asynchronously closed and interrupted. |
| [**Pipe**](http://docs.google.com/java/nio/channels/class-use/Pipe.html#java.nio.channels.spi)            A pair of channels that implements a unidirectional pipe. |
| [**SelectableChannel**](http://docs.google.com/java/nio/channels/class-use/SelectableChannel.html#java.nio.channels.spi)            A channel that can be multiplexed via a [Selector](http://docs.google.com/java/nio/channels/Selector.html). |
| [**SelectionKey**](http://docs.google.com/java/nio/channels/class-use/SelectionKey.html#java.nio.channels.spi)            A token representing the registration of a [SelectableChannel](http://docs.google.com/java/nio/channels/SelectableChannel.html) with a [Selector](http://docs.google.com/java/nio/channels/Selector.html). |
| [**Selector**](http://docs.google.com/java/nio/channels/class-use/Selector.html#java.nio.channels.spi)            A multiplexor of [SelectableChannel](http://docs.google.com/java/nio/channels/SelectableChannel.html) objects. |
| [**ServerSocketChannel**](http://docs.google.com/java/nio/channels/class-use/ServerSocketChannel.html#java.nio.channels.spi)            A selectable channel for stream-oriented listening sockets. |
| [**SocketChannel**](http://docs.google.com/java/nio/channels/class-use/SocketChannel.html#java.nio.channels.spi)            A selectable channel for stream-oriented connecting sockets. |

| Classes in [java.nio.channels](http://docs.google.com/java/nio/channels/package-summary.html) used by [java.util](http://docs.google.com/java/util/package-summary.html) | |
| --- | --- |
| [**ReadableByteChannel**](http://docs.google.com/java/nio/channels/class-use/ReadableByteChannel.html#java.util)            A channel that can read bytes. |

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | Class | **Use** | [**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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| PREV   NEXT | [**FRAMES**](http://docs.google.com/index.html?java/nio/channels/package-use.html)    [**NO FRAMES**](http://docs.google.com/package-use.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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