| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | [**Class**](http://docs.google.com/java/io/Closeable.html) | **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/io//class-useCloseable.html)    [**NO FRAMES**](http://docs.google.com/Closeable.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |

**Uses of Interface**

**java.io.Closeable**

| Packages that use [Closeable](http://docs.google.com/java/io/Closeable.html) | |
| --- | --- |
| [**java.io**](#3znysh7) | Provides for system input and output through data streams, serialization and the file system. |
| [**java.nio.channels**](#2et92p0) | 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**](#tyjcwt) | Service-provider classes for the [java.nio.channels](http://docs.google.com/java/nio/channels/package-summary.html) package. |
| [**java.rmi.server**](#3dy6vkm) | Provides classes and interfaces for supporting the server side of RMI. |
| [**java.security**](#1t3h5sf) | Provides the classes and interfaces for the security framework. |
| [**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). |
| [**java.util.jar**](#2s8eyo1) | Provides classes for reading and writing the JAR (Java ARchive) file format, which is based on the standard ZIP file format with an optional manifest file. |
| [**java.util.zip**](#17dp8vu) | Provides classes for reading and writing the standard ZIP and GZIP file formats. |
| [**javax.crypto**](#3rdcrjn) | Provides the classes and interfaces for cryptographic operations. |
| [**javax.management.remote**](#26in1rg) | Interfaces for remote access to JMX MBean servers. |
| [**javax.management.remote.rmi**](#lnxbz9) | The RMI connector is a connector for the JMX Remote API that uses RMI to transmit client requests to a remote MBean server. |
| [**javax.sound.sampled**](#35nkun2) | Provides interfaces and classes for capture, processing, and playback of sampled audio data. |
| [**javax.swing**](#1ksv4uv) | Provides a set of "lightweight" (all-Java language) components that, to the maximum degree possible, work the same on all platforms. |
| [**javax.tools**](#44sinio) | Provides interfaces for tools which can be invoked from a program, for example, compilers. |

| Uses of [Closeable](http://docs.google.com/java/io/Closeable.html) in [java.io](http://docs.google.com/java/io/package-summary.html) | |
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| Classes in [java.io](http://docs.google.com/java/io/package-summary.html) that implement [Closeable](http://docs.google.com/java/io/Closeable.html) | |
| --- | --- |
| class | [**BufferedInputStream**](http://docs.google.com/java/io/BufferedInputStream.html)            A BufferedInputStream adds functionality to another input stream-namely, the ability to buffer the input and to support the mark and reset methods. |
| class | [**BufferedOutputStream**](http://docs.google.com/java/io/BufferedOutputStream.html)            The class implements a buffered output stream. |
| class | [**BufferedReader**](http://docs.google.com/java/io/BufferedReader.html)            Reads text from a character-input stream, buffering characters so as to provide for the efficient reading of characters, arrays, and lines. |
| class | [**BufferedWriter**](http://docs.google.com/java/io/BufferedWriter.html)            Writes text to a character-output stream, buffering characters so as to provide for the efficient writing of single characters, arrays, and strings. |
| class | [**ByteArrayInputStream**](http://docs.google.com/java/io/ByteArrayInputStream.html)            A ByteArrayInputStream contains an internal buffer that contains bytes that may be read from the stream. |
| class | [**ByteArrayOutputStream**](http://docs.google.com/java/io/ByteArrayOutputStream.html)            This class implements an output stream in which the data is written into a byte array. |
| class | [**CharArrayReader**](http://docs.google.com/java/io/CharArrayReader.html)            This class implements a character buffer that can be used as a character-input stream. |
| class | [**CharArrayWriter**](http://docs.google.com/java/io/CharArrayWriter.html)            This class implements a character buffer that can be used as an Writer. |
| class | [**DataInputStream**](http://docs.google.com/java/io/DataInputStream.html)            A data input stream lets an application read primitive Java data types from an underlying input stream in a machine-independent way. |
| class | [**DataOutputStream**](http://docs.google.com/java/io/DataOutputStream.html)            A data output stream lets an application write primitive Java data types to an output stream in a portable way. |
| class | [**FileInputStream**](http://docs.google.com/java/io/FileInputStream.html)            A FileInputStream obtains input bytes from a file in a file system. |
| class | [**FileOutputStream**](http://docs.google.com/java/io/FileOutputStream.html)            A file output stream is an output stream for writing data to a File or to a FileDescriptor. |
| class | [**FileReader**](http://docs.google.com/java/io/FileReader.html)            Convenience class for reading character files. |
| class | [**FileWriter**](http://docs.google.com/java/io/FileWriter.html)            Convenience class for writing character files. |
| class | [**FilterInputStream**](http://docs.google.com/java/io/FilterInputStream.html)            A FilterInputStream contains some other input stream, which it uses as its basic source of data, possibly transforming the data along the way or providing additional functionality. |
| class | [**FilterOutputStream**](http://docs.google.com/java/io/FilterOutputStream.html)            This class is the superclass of all classes that filter output streams. |
| class | [**FilterReader**](http://docs.google.com/java/io/FilterReader.html)            Abstract class for reading filtered character streams. |
| class | [**FilterWriter**](http://docs.google.com/java/io/FilterWriter.html)            Abstract class for writing filtered character streams. |
| class | [**InputStream**](http://docs.google.com/java/io/InputStream.html)            This abstract class is the superclass of all classes representing an input stream of bytes. |
| class | [**InputStreamReader**](http://docs.google.com/java/io/InputStreamReader.html)            An InputStreamReader is a bridge from byte streams to character streams: It reads bytes and decodes them into characters using a specified [charset](http://docs.google.com/java/nio/charset/Charset.html). |
| class | [**LineNumberInputStream**](http://docs.google.com/java/io/LineNumberInputStream.html)  **Deprecated.** *This class incorrectly assumes that bytes adequately represent characters. As of JDK 1.1, the preferred way to operate on character streams is via the new character-stream classes, which include a class for counting line numbers.* |
| class | [**LineNumberReader**](http://docs.google.com/java/io/LineNumberReader.html)            A buffered character-input stream that keeps track of line numbers. |
| class | [**ObjectInputStream**](http://docs.google.com/java/io/ObjectInputStream.html)            An ObjectInputStream deserializes primitive data and objects previously written using an ObjectOutputStream. |
| class | [**ObjectOutputStream**](http://docs.google.com/java/io/ObjectOutputStream.html)            An ObjectOutputStream writes primitive data types and graphs of Java objects to an OutputStream. |
| class | [**OutputStream**](http://docs.google.com/java/io/OutputStream.html)            This abstract class is the superclass of all classes representing an output stream of bytes. |
| class | [**OutputStreamWriter**](http://docs.google.com/java/io/OutputStreamWriter.html)            An OutputStreamWriter is a bridge from character streams to byte streams: Characters written to it are encoded into bytes using a specified [charset](http://docs.google.com/java/nio/charset/Charset.html). |
| class | [**PipedInputStream**](http://docs.google.com/java/io/PipedInputStream.html)            A piped input stream should be connected to a piped output stream; the piped input stream then provides whatever data bytes are written to the piped output stream. |
| class | [**PipedOutputStream**](http://docs.google.com/java/io/PipedOutputStream.html)            A piped output stream can be connected to a piped input stream to create a communications pipe. |
| class | [**PipedReader**](http://docs.google.com/java/io/PipedReader.html)            Piped character-input streams. |
| class | [**PipedWriter**](http://docs.google.com/java/io/PipedWriter.html)            Piped character-output streams. |
| class | [**PrintStream**](http://docs.google.com/java/io/PrintStream.html)            A PrintStream adds functionality to another output stream, namely the ability to print representations of various data values conveniently. |
| class | [**PrintWriter**](http://docs.google.com/java/io/PrintWriter.html)            Prints formatted representations of objects to a text-output stream. |
| class | [**PushbackInputStream**](http://docs.google.com/java/io/PushbackInputStream.html)            A PushbackInputStream adds functionality to another input stream, namely the ability to "push back" or "unread" one byte. |
| class | [**PushbackReader**](http://docs.google.com/java/io/PushbackReader.html)            A character-stream reader that allows characters to be pushed back into the stream. |
| class | [**RandomAccessFile**](http://docs.google.com/java/io/RandomAccessFile.html)            Instances of this class support both reading and writing to a random access file. |
| class | [**Reader**](http://docs.google.com/java/io/Reader.html)            Abstract class for reading character streams. |
| class | [**SequenceInputStream**](http://docs.google.com/java/io/SequenceInputStream.html)            A SequenceInputStream represents the logical concatenation of other input streams. |
| class | [**StringBufferInputStream**](http://docs.google.com/java/io/StringBufferInputStream.html)  **Deprecated.** *This class does not properly convert characters into bytes. As of JDK 1.1, the preferred way to create a stream from a string is via the StringReader class.* |
| class | [**StringReader**](http://docs.google.com/java/io/StringReader.html)            A character stream whose source is a string. |
| class | [**StringWriter**](http://docs.google.com/java/io/StringWriter.html)            A character stream that collects its output in a string buffer, which can then be used to construct a string. |
| class | [**Writer**](http://docs.google.com/java/io/Writer.html)            Abstract class for writing to character streams. |

| Uses of [Closeable](http://docs.google.com/java/io/Closeable.html) in [java.nio.channels](http://docs.google.com/java/nio/channels/package-summary.html) | |
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| Subinterfaces of [Closeable](http://docs.google.com/java/io/Closeable.html) in [java.nio.channels](http://docs.google.com/java/nio/channels/package-summary.html) | |
| --- | --- |
| interface | [**ByteChannel**](http://docs.google.com/java/nio/channels/ByteChannel.html)            A channel that can read and write bytes. |
| interface | [**Channel**](http://docs.google.com/java/nio/channels/Channel.html)            A nexus for I/O operations. |
| interface | [**GatheringByteChannel**](http://docs.google.com/java/nio/channels/GatheringByteChannel.html)            A channel that can write bytes from a sequence of buffers. |
| interface | [**InterruptibleChannel**](http://docs.google.com/java/nio/channels/InterruptibleChannel.html)            A channel that can be asynchronously closed and interrupted. |
| interface | [**ReadableByteChannel**](http://docs.google.com/java/nio/channels/ReadableByteChannel.html)            A channel that can read bytes. |
| interface | [**ScatteringByteChannel**](http://docs.google.com/java/nio/channels/ScatteringByteChannel.html)            A channel that can read bytes into a sequence of buffers. |
| interface | [**WritableByteChannel**](http://docs.google.com/java/nio/channels/WritableByteChannel.html)            A channel that can write bytes. |

| Classes in [java.nio.channels](http://docs.google.com/java/nio/channels/package-summary.html) that implement [Closeable](http://docs.google.com/java/io/Closeable.html) | |
| --- | --- |
| class | [**DatagramChannel**](http://docs.google.com/java/nio/channels/DatagramChannel.html)            A selectable channel for datagram-oriented sockets. |
| class | [**FileChannel**](http://docs.google.com/java/nio/channels/FileChannel.html)            A channel for reading, writing, mapping, and manipulating a file. |
| static class | [**Pipe.SinkChannel**](http://docs.google.com/java/nio/channels/Pipe.SinkChannel.html)            A channel representing the writable end of a [Pipe](http://docs.google.com/java/nio/channels/Pipe.html). |
| static class | [**Pipe.SourceChannel**](http://docs.google.com/java/nio/channels/Pipe.SourceChannel.html)            A channel representing the readable end of a [Pipe](http://docs.google.com/java/nio/channels/Pipe.html). |
| class | [**SelectableChannel**](http://docs.google.com/java/nio/channels/SelectableChannel.html)            A channel that can be multiplexed via a [Selector](http://docs.google.com/java/nio/channels/Selector.html). |
| class | [**ServerSocketChannel**](http://docs.google.com/java/nio/channels/ServerSocketChannel.html)            A selectable channel for stream-oriented listening sockets. |
| class | [**SocketChannel**](http://docs.google.com/java/nio/channels/SocketChannel.html)            A selectable channel for stream-oriented connecting sockets. |

| Uses of [Closeable](http://docs.google.com/java/io/Closeable.html) in [java.nio.channels.spi](http://docs.google.com/java/nio/channels/spi/package-summary.html) | |
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| Classes in [java.nio.channels.spi](http://docs.google.com/java/nio/channels/spi/package-summary.html) that implement [Closeable](http://docs.google.com/java/io/Closeable.html) | |
| --- | --- |
| class | [**AbstractInterruptibleChannel**](http://docs.google.com/java/nio/channels/spi/AbstractInterruptibleChannel.html)            Base implementation class for interruptible channels. |
| class | [**AbstractSelectableChannel**](http://docs.google.com/java/nio/channels/spi/AbstractSelectableChannel.html)            Base implementation class for selectable channels. |

| Uses of [Closeable](http://docs.google.com/java/io/Closeable.html) in [java.rmi.server](http://docs.google.com/java/rmi/server/package-summary.html) | |
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| Classes in [java.rmi.server](http://docs.google.com/java/rmi/server/package-summary.html) that implement [Closeable](http://docs.google.com/java/io/Closeable.html) | |
| --- | --- |
| class | [**LogStream**](http://docs.google.com/java/rmi/server/LogStream.html)  **Deprecated.** *no replacement* |

| Uses of [Closeable](http://docs.google.com/java/io/Closeable.html) in [java.security](http://docs.google.com/java/security/package-summary.html) | |
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| Classes in [java.security](http://docs.google.com/java/security/package-summary.html) that implement [Closeable](http://docs.google.com/java/io/Closeable.html) | |
| --- | --- |
| class | [**DigestInputStream**](http://docs.google.com/java/security/DigestInputStream.html)            A transparent stream that updates the associated message digest using the bits going through the stream. |
| class | [**DigestOutputStream**](http://docs.google.com/java/security/DigestOutputStream.html)            A transparent stream that updates the associated message digest using the bits going through the stream. |

| Uses of [Closeable](http://docs.google.com/java/io/Closeable.html) in [java.util](http://docs.google.com/java/util/package-summary.html) | |
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| Classes in [java.util](http://docs.google.com/java/util/package-summary.html) that implement [Closeable](http://docs.google.com/java/io/Closeable.html) | |
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| class | [**Formatter**](http://docs.google.com/java/util/Formatter.html)            An interpreter for printf-style format strings. |

| Uses of [Closeable](http://docs.google.com/java/io/Closeable.html) in [java.util.jar](http://docs.google.com/java/util/jar/package-summary.html) | |
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| Classes in [java.util.jar](http://docs.google.com/java/util/jar/package-summary.html) that implement [Closeable](http://docs.google.com/java/io/Closeable.html) | |
| --- | --- |
| class | [**JarInputStream**](http://docs.google.com/java/util/jar/JarInputStream.html)            The JarInputStream class is used to read the contents of a JAR file from any input stream. |
| class | [**JarOutputStream**](http://docs.google.com/java/util/jar/JarOutputStream.html)            The JarOutputStream class is used to write the contents of a JAR file to any output stream. |

| Uses of [Closeable](http://docs.google.com/java/io/Closeable.html) in [java.util.zip](http://docs.google.com/java/util/zip/package-summary.html) | |
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| Classes in [java.util.zip](http://docs.google.com/java/util/zip/package-summary.html) that implement [Closeable](http://docs.google.com/java/io/Closeable.html) | |
| --- | --- |
| class | [**CheckedInputStream**](http://docs.google.com/java/util/zip/CheckedInputStream.html)            An input stream that also maintains a checksum of the data being read. |
| class | [**CheckedOutputStream**](http://docs.google.com/java/util/zip/CheckedOutputStream.html)            An output stream that also maintains a checksum of the data being written. |
| class | [**DeflaterInputStream**](http://docs.google.com/java/util/zip/DeflaterInputStream.html)            Implements an input stream filter for compressing data in the "deflate" compression format. |
| class | [**DeflaterOutputStream**](http://docs.google.com/java/util/zip/DeflaterOutputStream.html)            This class implements an output stream filter for compressing data in the "deflate" compression format. |
| class | [**GZIPInputStream**](http://docs.google.com/java/util/zip/GZIPInputStream.html)            This class implements a stream filter for reading compressed data in the GZIP file format. |
| class | [**GZIPOutputStream**](http://docs.google.com/java/util/zip/GZIPOutputStream.html)            This class implements a stream filter for writing compressed data in the GZIP file format. |
| class | [**InflaterInputStream**](http://docs.google.com/java/util/zip/InflaterInputStream.html)            This class implements a stream filter for uncompressing data in the "deflate" compression format. |
| class | [**InflaterOutputStream**](http://docs.google.com/java/util/zip/InflaterOutputStream.html)            Implements an output stream filter for uncompressing data stored in the "deflate" compression format. |
| class | [**ZipInputStream**](http://docs.google.com/java/util/zip/ZipInputStream.html)            This class implements an input stream filter for reading files in the ZIP file format. |
| class | [**ZipOutputStream**](http://docs.google.com/java/util/zip/ZipOutputStream.html)            This class implements an output stream filter for writing files in the ZIP file format. |

| Uses of [Closeable](http://docs.google.com/java/io/Closeable.html) in [javax.crypto](http://docs.google.com/javax/crypto/package-summary.html) | |
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| Classes in [javax.crypto](http://docs.google.com/javax/crypto/package-summary.html) that implement [Closeable](http://docs.google.com/java/io/Closeable.html) | |
| --- | --- |
| class | [**CipherInputStream**](http://docs.google.com/javax/crypto/CipherInputStream.html)            A CipherInputStream is composed of an InputStream and a Cipher so that read() methods return data that are read in from the underlying InputStream but have been additionally processed by the Cipher. |
| class | [**CipherOutputStream**](http://docs.google.com/javax/crypto/CipherOutputStream.html)            A CipherOutputStream is composed of an OutputStream and a Cipher so that write() methods first process the data before writing them out to the underlying OutputStream. |

| Uses of [Closeable](http://docs.google.com/java/io/Closeable.html) in [javax.management.remote](http://docs.google.com/javax/management/remote/package-summary.html) | |
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| Subinterfaces of [Closeable](http://docs.google.com/java/io/Closeable.html) in [javax.management.remote](http://docs.google.com/javax/management/remote/package-summary.html) | |
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| interface | [**JMXConnector**](http://docs.google.com/javax/management/remote/JMXConnector.html)            The client end of a JMX API connector. |

| Uses of [Closeable](http://docs.google.com/java/io/Closeable.html) in [javax.management.remote.rmi](http://docs.google.com/javax/management/remote/rmi/package-summary.html) | |
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| Subinterfaces of [Closeable](http://docs.google.com/java/io/Closeable.html) in [javax.management.remote.rmi](http://docs.google.com/javax/management/remote/rmi/package-summary.html) | |
| --- | --- |
| interface | [**RMIConnection**](http://docs.google.com/javax/management/remote/rmi/RMIConnection.html)            RMI object used to forward an MBeanServer request from a client to its MBeanServer implementation on the server side. |

| Classes in [javax.management.remote.rmi](http://docs.google.com/javax/management/remote/rmi/package-summary.html) that implement [Closeable](http://docs.google.com/java/io/Closeable.html) | |
| --- | --- |
| class | [**RMIConnectionImpl**](http://docs.google.com/javax/management/remote/rmi/RMIConnectionImpl.html)            Implementation of the [RMIConnection](http://docs.google.com/javax/management/remote/rmi/RMIConnection.html) interface. |
| class | [**RMIConnectionImpl\_Stub**](http://docs.google.com/javax/management/remote/rmi/RMIConnectionImpl_Stub.html) |
| class | [**RMIConnector**](http://docs.google.com/javax/management/remote/rmi/RMIConnector.html)            A connection to a remote RMI connector. |
| class | [**RMIIIOPServerImpl**](http://docs.google.com/javax/management/remote/rmi/RMIIIOPServerImpl.html)            An [RMIServerImpl](http://docs.google.com/javax/management/remote/rmi/RMIServerImpl.html) that is exported through IIOP and that creates client connections as RMI objects exported through IIOP. |
| class | [**RMIJRMPServerImpl**](http://docs.google.com/javax/management/remote/rmi/RMIJRMPServerImpl.html)            An [RMIServer](http://docs.google.com/javax/management/remote/rmi/RMIServer.html) object that is exported through JRMP and that creates client connections as RMI objects exported through JRMP. |
| class | [**RMIServerImpl**](http://docs.google.com/javax/management/remote/rmi/RMIServerImpl.html)            An RMI object representing a connector server. |

| Uses of [Closeable](http://docs.google.com/java/io/Closeable.html) in [javax.sound.sampled](http://docs.google.com/javax/sound/sampled/package-summary.html) | |
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| Classes in [javax.sound.sampled](http://docs.google.com/javax/sound/sampled/package-summary.html) that implement [Closeable](http://docs.google.com/java/io/Closeable.html) | |
| --- | --- |
| class | [**AudioInputStream**](http://docs.google.com/javax/sound/sampled/AudioInputStream.html)            An audio input stream is an input stream with a specified audio format and length. |

| Uses of [Closeable](http://docs.google.com/java/io/Closeable.html) in [javax.swing](http://docs.google.com/javax/swing/package-summary.html) | |
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| Classes in [javax.swing](http://docs.google.com/javax/swing/package-summary.html) that implement [Closeable](http://docs.google.com/java/io/Closeable.html) | |
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| class | [**ProgressMonitorInputStream**](http://docs.google.com/javax/swing/ProgressMonitorInputStream.html)            Monitors the progress of reading from some InputStream. |

| Uses of [Closeable](http://docs.google.com/java/io/Closeable.html) in [javax.tools](http://docs.google.com/javax/tools/package-summary.html) | |
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| Subinterfaces of [Closeable](http://docs.google.com/java/io/Closeable.html) in [javax.tools](http://docs.google.com/javax/tools/package-summary.html) | |
| --- | --- |
| interface | [**JavaFileManager**](http://docs.google.com/javax/tools/JavaFileManager.html)            File manager for tools operating on Java™ programming language source and class files. |
| interface | [**StandardJavaFileManager**](http://docs.google.com/javax/tools/StandardJavaFileManager.html)            File manager based on [java.io.File](http://docs.google.com/java/io/File.html). |

| Classes in [javax.tools](http://docs.google.com/javax/tools/package-summary.html) that implement [Closeable](http://docs.google.com/java/io/Closeable.html) | |
| --- | --- |
| class | [**ForwardingJavaFileManager<M extends JavaFileManager>**](http://docs.google.com/javax/tools/ForwardingJavaFileManager.html)            Forwards calls to a given file manager. |

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | [**Class**](http://docs.google.com/java/io/Closeable.html) | **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*** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| PREV   NEXT | [**FRAMES**](http://docs.google.com/index.html?java/io//class-useCloseable.html)    [**NO FRAMES**](http://docs.google.com/Closeable.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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