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

**Uses of Class**

**java.io.IOException**

| Packages that use [IOException](http://docs.google.com/java/io/IOException.html) | |
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| [**java.applet**](#3znysh7) | Provides the classes necessary to create an applet and the classes an applet uses to communicate with its applet context. |
| [**java.awt**](#2et92p0) | Contains all of the classes for creating user interfaces and for painting graphics and images. |
| [**java.awt.color**](#tyjcwt) | Provides classes for color spaces. |
| [**java.awt.datatransfer**](#3dy6vkm) | Provides interfaces and classes for transferring data between and within applications. |
| [**java.awt.dnd**](#1t3h5sf) | Drag and Drop is a direct manipulation gesture found in many Graphical User Interface systems that provides a mechanism to transfer information between two entities logically associated with presentation elements in the GUI. |
| [**java.awt.print**](#4d34og8) | Provides classes and interfaces for a general printing API. |
| [**java.beans**](#2s8eyo1) | Contains classes related to developing *beans* -- components based on the JavaBeansTM architecture. |
| [**java.beans.beancontext**](#17dp8vu) | Provides classes and interfaces relating to bean context. |
| [**java.io**](#3rdcrjn) | Provides for system input and output through data streams, serialization and the file system. |
| [**java.lang**](#26in1rg) | Provides classes that are fundamental to the design of the Java programming language. |
| [**java.lang.management**](#lnxbz9) | Provides the management interface for monitoring and management of the Java virtual machine as well as the operating system on which the Java virtual machine is running. |
| [**java.net**](#35nkun2) | Provides the classes for implementing networking applications. |
| [**java.nio**](#1ksv4uv) | Defines buffers, which are containers for data, and provides an overview of the other NIO packages. |
| [**java.nio.channels**](#44sinio) | 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**](#2jxsxqh) | Service-provider classes for the [java.nio.channels](http://docs.google.com/java/nio/channels/package-summary.html) package. |
| [**java.nio.charset**](#z337ya) | Defines charsets, decoders, and encoders, for translating between bytes and Unicode characters. |
| [**java.rmi**](#3j2qqm3) | Provides the RMI package. |
| [**java.rmi.activation**](#1y810tw) | Provides support for RMI Object Activation. |
| [**java.rmi.server**](#4i7ojhp) | Provides classes and interfaces for supporting the server side of RMI. |
| [**java.security**](#2xcytpi) | Provides the classes and interfaces for the security framework. |
| [**java.security.cert**](#1ci93xb) | Provides classes and interfaces for parsing and managing certificates, certificate revocation lists (CRLs), and certification paths. |
| [**java.util**](#3whwml4) | 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**](#2bn6wsx) | 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.logging**](#qsh70q) | Provides the classes and interfaces of the JavaTM 2 platform's core logging facilities. |
| [**java.util.prefs**](#3as4poj) | This package allows applications to store and retrieve user and system preference and configuration data. |
| [**java.util.zip**](#1pxezwc) | Provides classes for reading and writing the standard ZIP and GZIP file formats. |
| [**javax.activation**](#49x2ik5) |  |
| [**javax.activity**](#2p2csry) | Contains Activity service related exceptions thrown by the ORB machinery during unmarshalling. |
| [**javax.annotation.processing**](#147n2zr) | Facilities for declaring annotation processors and for allowing annotation processors to communicate with an annotation processing tool environment. |
| [**javax.crypto**](#3o7alnk) | Provides the classes and interfaces for cryptographic operations. |
| [**javax.imageio**](#23ckvvd) | The main package of the Java Image I/O API. |
| [**javax.imageio.metadata**](#ihv636) | A package of the Java Image I/O API dealing with reading and writing metadata. |
| [**javax.imageio.spi**](#32hioqz) | A package of the Java Image I/O API containing the plug-in interfaces for readers, writers, transcoders, and streams, and a runtime registry. |
| [**javax.imageio.stream**](#1hmsyys) | A package of the Java Image I/O API dealing with low-level I/O from files and streams. |
| [**javax.management**](#41mghml) | Provides the core classes for the Java Management Extensions. |
| [**javax.management.loading**](#2grqrue) | Provides the classes which implement advanced dynamic loading. |
| [**javax.management.remote**](#vx1227) | Interfaces for remote access to JMX MBean servers. |
| [**javax.management.remote.rmi**](#3fwokq0) | The RMI connector is a connector for the JMX Remote API that uses RMI to transmit client requests to a remote MBean server. |
| [**javax.naming.ldap**](#1v1yuxt) | Provides support for LDAPv3 extended operations and controls. |
| [**javax.net**](#4f1mdlm) | Provides classes for networking applications. |
| [**javax.net.ssl**](#2u6wntf) | Provides classes for the secure socket package. |
| [**javax.print**](#19c6y18) | Provides the principal classes and interfaces for the JavaTM Print Service API. |
| [**javax.rmi.CORBA**](#3tbugp1) | Contains portability APIs for RMI-IIOP. |
| [**javax.rmi.ssl**](#28h4qwu) | Provides implementations of [RMIClientSocketFactory](http://docs.google.com/java/rmi/server/RMIClientSocketFactory.html) and [RMIServerSocketFactory](http://docs.google.com/java/rmi/server/RMIServerSocketFactory.html) over the Secure Sockets Layer (SSL) or Transport Layer Security (TLS) protocols. |
| [**javax.security.auth.callback**](#nmf14n) | This package provides the classes necessary for services to interact with applications in order to retrieve information (authentication data including usernames or passwords, for example) or to display information (error and warning messages, for example). |
| [**javax.security.sasl**](#37m2jsg) | Contains class and interfaces for supporting SASL. |
| [**javax.sound.midi**](#1mrcu09) | Provides interfaces and classes for I/O, sequencing, and synthesis of MIDI (Musical Instrument Digital Interface) data. |
| [**javax.sound.midi.spi**](#46r0co2) | Supplies interfaces for service providers to implement when offering new MIDI devices, MIDI file readers and writers, or sound bank readers. |
| [**javax.sound.sampled**](#2lwamvv) | Provides interfaces and classes for capture, processing, and playback of sampled audio data. |
| [**javax.sound.sampled.spi**](#111kx3o) | Supplies abstract classes for service providers to subclass when offering new audio devices, sound file readers and writers, or audio format converters. |
| [**javax.sql.rowset**](#3l18frh) | Standard interfaces and base classes for JDBC RowSet implementations. |
| [**javax.swing**](#206ipza) | Provides a set of "lightweight" (all-Java language) components that, to the maximum degree possible, work the same on all platforms. |
| [**javax.swing.filechooser**](#4k668n3) | Contains classes and interfaces used by the JFileChooser component. |
| [**javax.swing.plaf.synth**](#2zbgiuw) | Synth is a skinnable look and feel in which all painting is delegated. |
| [**javax.swing.text**](#1egqt2p) | Provides classes and interfaces that deal with editable and noneditable text components. |
| [**javax.swing.text.html**](#3ygebqi) | Provides the class HTMLEditorKit and supporting classes for creating HTML text editors. |
| [**javax.swing.text.html.parser**](#2dlolyb) | Provides the default HTML parser, along with support classes. |
| [**javax.swing.text.rtf**](#sqyw64) | Provides a class (RTFEditorKit) for creating Rich-Text-Format text editors. |
| [**javax.tools**](#3cqmetx) | Provides interfaces for tools which can be invoked from a program, for example, compilers. |
| [**javax.transaction**](#1rvwp1q) | Contains three exceptions thrown by the ORB machinery during unmarshalling. |
| [**javax.xml.bind**](#4bvk7pj) | Provides a runtime binding framework for client applications including unmarshalling, marshalling, and validation capabilities. |
| [**javax.xml.parsers**](#2r0uhxc) | Provides classes allowing the processing of XML documents. |
| [**javax.xml.soap**](#1664s55) | Provides the API for creating and building SOAP messages. |
| [**javax.xml.validation**](#3q5sasy) | This package provides an API for validation of XML documents. |
| [**org.omg.CORBA.portable**](#25b2l0r) | Provides a portability layer, that is, a set of ORB APIs that makes it possible for code generated by one vendor to run on another vendor's ORB. |
| [**org.xml.sax**](#kgcv8k) | This package provides the core SAX APIs. |
| [**org.xml.sax.ext**](#34g0dwd) | This package contains interfaces to SAX2 facilities that conformant SAX drivers won't necessarily support. |
| [**org.xml.sax.helpers**](#1jlao46) | This package contains "helper" classes, including support for bootstrapping SAX-based applications. |

| Uses of [IOException](http://docs.google.com/java/io/IOException.html) in [java.applet](http://docs.google.com/java/applet/package-summary.html) | |
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| Methods in [java.applet](http://docs.google.com/java/applet/package-summary.html) that throw [IOException](http://docs.google.com/java/io/IOException.html) | |
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| void | **AppletContext.**[**setStream**](http://docs.google.com/java/applet/AppletContext.html#setStream(java.lang.String,%20java.io.InputStream))([String](http://docs.google.com/java/lang/String.html) key, [InputStream](http://docs.google.com/java/io/InputStream.html) stream)            Associates the specified stream with the specified key in this applet context. |

| Uses of [IOException](http://docs.google.com/java/io/IOException.html) in [java.awt](http://docs.google.com/java/awt/package-summary.html) | |
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| Methods in [java.awt](http://docs.google.com/java/awt/package-summary.html) that throw [IOException](http://docs.google.com/java/io/IOException.html) | |
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| void | **Desktop.**[**browse**](http://docs.google.com/java/awt/Desktop.html#browse(java.net.URI))([URI](http://docs.google.com/java/net/URI.html) uri)            Launches the default browser to display a URI. |
| static [Font](http://docs.google.com/java/awt/Font.html) | **Font.**[**createFont**](http://docs.google.com/java/awt/Font.html#createFont(int,%20java.io.File))(int fontFormat, [File](http://docs.google.com/java/io/File.html) fontFile)            Returns a new Font using the specified font type and the specified font file. |
| static [Font](http://docs.google.com/java/awt/Font.html) | **Font.**[**createFont**](http://docs.google.com/java/awt/Font.html#createFont(int,%20java.io.InputStream))(int fontFormat, [InputStream](http://docs.google.com/java/io/InputStream.html) fontStream)            Returns a new Font using the specified font type and input data. |
| void | **Desktop.**[**edit**](http://docs.google.com/java/awt/Desktop.html#edit(java.io.File))([File](http://docs.google.com/java/io/File.html) file)            Launches the associated editor application and opens a file for editing. |
| void | **Desktop.**[**mail**](http://docs.google.com/java/awt/Desktop.html#mail())()            Launches the mail composing window of the user default mail client. |
| void | **Desktop.**[**mail**](http://docs.google.com/java/awt/Desktop.html#mail(java.net.URI))([URI](http://docs.google.com/java/net/URI.html) mailtoURI)            Launches the mail composing window of the user default mail client, filling the message fields specified by a mailto: URI. |
| void | **Desktop.**[**open**](http://docs.google.com/java/awt/Desktop.html#open(java.io.File))([File](http://docs.google.com/java/io/File.html) file)            Launches the associated application to open the file. |
| void | **Desktop.**[**print**](http://docs.google.com/java/awt/Desktop.html#print(java.io.File))([File](http://docs.google.com/java/io/File.html) file)            Prints a file with the native desktop printing facility, using the associated application's print command. |
| protected static void | **AWTEventMulticaster.**[**save**](http://docs.google.com/java/awt/AWTEventMulticaster.html#save(java.io.ObjectOutputStream,%20java.lang.String,%20java.util.EventListener))([ObjectOutputStream](http://docs.google.com/java/io/ObjectOutputStream.html) s, [String](http://docs.google.com/java/lang/String.html) k, [EventListener](http://docs.google.com/java/util/EventListener.html) l) |
| protected  void | **AWTEventMulticaster.**[**saveInternal**](http://docs.google.com/java/awt/AWTEventMulticaster.html#saveInternal(java.io.ObjectOutputStream,%20java.lang.String))([ObjectOutputStream](http://docs.google.com/java/io/ObjectOutputStream.html) s, [String](http://docs.google.com/java/lang/String.html) k) |
| void | **SplashScreen.**[**setImageURL**](http://docs.google.com/java/awt/SplashScreen.html#setImageURL(java.net.URL))([URL](http://docs.google.com/java/net/URL.html) imageURL)            Changes the splash screen image. |

| Uses of [IOException](http://docs.google.com/java/io/IOException.html) in [java.awt.color](http://docs.google.com/java/awt/color/package-summary.html) | |
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| Methods in [java.awt.color](http://docs.google.com/java/awt/color/package-summary.html) that throw [IOException](http://docs.google.com/java/io/IOException.html) | |
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| static [ICC\_Profile](http://docs.google.com/java/awt/color/ICC_Profile.html) | **ICC\_Profile.**[**getInstance**](http://docs.google.com/java/awt/color/ICC_Profile.html#getInstance(java.io.InputStream))([InputStream](http://docs.google.com/java/io/InputStream.html) s)            Constructs an ICC\_Profile corresponding to the data in an InputStream. |
| static [ICC\_Profile](http://docs.google.com/java/awt/color/ICC_Profile.html) | **ICC\_Profile.**[**getInstance**](http://docs.google.com/java/awt/color/ICC_Profile.html#getInstance(java.lang.String))([String](http://docs.google.com/java/lang/String.html) fileName)            Constructs an ICC\_Profile corresponding to the data in a file. |
| void | **ICC\_Profile.**[**write**](http://docs.google.com/java/awt/color/ICC_Profile.html#write(java.io.OutputStream))([OutputStream](http://docs.google.com/java/io/OutputStream.html) s)            Write this ICC\_Profile to an OutputStream. |
| void | **ICC\_Profile.**[**write**](http://docs.google.com/java/awt/color/ICC_Profile.html#write(java.lang.String))([String](http://docs.google.com/java/lang/String.html) fileName)            Write this ICC\_Profile to a file. |

| Uses of [IOException](http://docs.google.com/java/io/IOException.html) in [java.awt.datatransfer](http://docs.google.com/java/awt/datatransfer/package-summary.html) | |
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| Methods in [java.awt.datatransfer](http://docs.google.com/java/awt/datatransfer/package-summary.html) that throw [IOException](http://docs.google.com/java/io/IOException.html) | |
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| [Object](http://docs.google.com/java/lang/Object.html) | **Clipboard.**[**getData**](http://docs.google.com/java/awt/datatransfer/Clipboard.html#getData(java.awt.datatransfer.DataFlavor))([DataFlavor](http://docs.google.com/java/awt/datatransfer/DataFlavor.html) flavor)            Returns an object representing the current contents of this clipboard in the specified DataFlavor. |
| [Reader](http://docs.google.com/java/io/Reader.html) | **DataFlavor.**[**getReaderForText**](http://docs.google.com/java/awt/datatransfer/DataFlavor.html#getReaderForText(java.awt.datatransfer.Transferable))([Transferable](http://docs.google.com/java/awt/datatransfer/Transferable.html) transferable)            Gets a Reader for a text flavor, decoded, if necessary, for the expected charset (encoding). |
| [Object](http://docs.google.com/java/lang/Object.html) | **StringSelection.**[**getTransferData**](http://docs.google.com/java/awt/datatransfer/StringSelection.html#getTransferData(java.awt.datatransfer.DataFlavor))([DataFlavor](http://docs.google.com/java/awt/datatransfer/DataFlavor.html) flavor)            Returns the Transferable's data in the requested DataFlavor if possible. |
| [Object](http://docs.google.com/java/lang/Object.html) | **Transferable.**[**getTransferData**](http://docs.google.com/java/awt/datatransfer/Transferable.html#getTransferData(java.awt.datatransfer.DataFlavor))([DataFlavor](http://docs.google.com/java/awt/datatransfer/DataFlavor.html) flavor)            Returns an object which represents the data to be transferred. |
| void | **DataFlavor.**[**readExternal**](http://docs.google.com/java/awt/datatransfer/DataFlavor.html#readExternal(java.io.ObjectInput))([ObjectInput](http://docs.google.com/java/io/ObjectInput.html) is)            Restores this DataFlavor from a Serialized state. |
| void | **DataFlavor.**[**writeExternal**](http://docs.google.com/java/awt/datatransfer/DataFlavor.html#writeExternal(java.io.ObjectOutput))([ObjectOutput](http://docs.google.com/java/io/ObjectOutput.html) os)            Serializes this DataFlavor. |

| Uses of [IOException](http://docs.google.com/java/io/IOException.html) in [java.awt.dnd](http://docs.google.com/java/awt/dnd/package-summary.html) | |
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| Methods in [java.awt.dnd](http://docs.google.com/java/awt/dnd/package-summary.html) that throw [IOException](http://docs.google.com/java/io/IOException.html) | |
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| [Object](http://docs.google.com/java/lang/Object.html) | **DropTargetContext.TransferableProxy.**[**getTransferData**](http://docs.google.com/java/awt/dnd/DropTargetContext.TransferableProxy.html#getTransferData(java.awt.datatransfer.DataFlavor))([DataFlavor](http://docs.google.com/java/awt/datatransfer/DataFlavor.html) df)            Returns an object which represents the data provided by the encapsulated transferable for the requested data flavor. |

| Uses of [IOException](http://docs.google.com/java/io/IOException.html) in [java.awt.print](http://docs.google.com/java/awt/print/package-summary.html) | |
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| Methods in [java.awt.print](http://docs.google.com/java/awt/print/package-summary.html) that return [IOException](http://docs.google.com/java/io/IOException.html) | |
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| [IOException](http://docs.google.com/java/io/IOException.html) | **PrinterIOException.**[**getIOException**](http://docs.google.com/java/awt/print/PrinterIOException.html#getIOException())()            Returns the IOException that terminated the print job. |

| Constructors in [java.awt.print](http://docs.google.com/java/awt/print/package-summary.html) with parameters of type [IOException](http://docs.google.com/java/io/IOException.html) | |
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| [**PrinterIOException**](http://docs.google.com/java/awt/print/PrinterIOException.html#PrinterIOException(java.io.IOException))([IOException](http://docs.google.com/java/io/IOException.html) exception)            Constructs a new PrinterIOException with the string representation of the specified [IOException](http://docs.google.com/java/io/IOException.html). |

| Uses of [IOException](http://docs.google.com/java/io/IOException.html) in [java.beans](http://docs.google.com/java/beans/package-summary.html) | |
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| Methods in [java.beans](http://docs.google.com/java/beans/package-summary.html) that throw [IOException](http://docs.google.com/java/io/IOException.html) | |
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| static [Object](http://docs.google.com/java/lang/Object.html) | **Beans.**[**instantiate**](http://docs.google.com/java/beans/Beans.html#instantiate(java.lang.ClassLoader,%20java.lang.String))([ClassLoader](http://docs.google.com/java/lang/ClassLoader.html) cls, [String](http://docs.google.com/java/lang/String.html) beanName)             Instantiate a JavaBean. |
| static [Object](http://docs.google.com/java/lang/Object.html) | **Beans.**[**instantiate**](http://docs.google.com/java/beans/Beans.html#instantiate(java.lang.ClassLoader,%20java.lang.String,%20java.beans.beancontext.BeanContext))([ClassLoader](http://docs.google.com/java/lang/ClassLoader.html) cls, [String](http://docs.google.com/java/lang/String.html) beanName, [BeanContext](http://docs.google.com/java/beans/beancontext/BeanContext.html) beanContext)             Instantiate a JavaBean. |
| static [Object](http://docs.google.com/java/lang/Object.html) | **Beans.**[**instantiate**](http://docs.google.com/java/beans/Beans.html#instantiate(java.lang.ClassLoader,%20java.lang.String,%20java.beans.beancontext.BeanContext,%20java.beans.AppletInitializer))([ClassLoader](http://docs.google.com/java/lang/ClassLoader.html) cls, [String](http://docs.google.com/java/lang/String.html) beanName, [BeanContext](http://docs.google.com/java/beans/beancontext/BeanContext.html) beanContext, [AppletInitializer](http://docs.google.com/java/beans/AppletInitializer.html) initializer)            Instantiate a bean. |

| Uses of [IOException](http://docs.google.com/java/io/IOException.html) in [java.beans.beancontext](http://docs.google.com/java/beans/beancontext/package-summary.html) | |
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| Methods in [java.beans.beancontext](http://docs.google.com/java/beans/beancontext/package-summary.html) that throw [IOException](http://docs.google.com/java/io/IOException.html) | |
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| protected  void | **BeanContextServicesSupport.**[**bcsPreDeserializationHook**](http://docs.google.com/java/beans/beancontext/BeanContextServicesSupport.html#bcsPreDeserializationHook(java.io.ObjectInputStream))([ObjectInputStream](http://docs.google.com/java/io/ObjectInputStream.html) ois)            called from BeanContextSupport readObject before it deserializes the children ... |
| protected  void | **BeanContextSupport.**[**bcsPreDeserializationHook**](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#bcsPreDeserializationHook(java.io.ObjectInputStream))([ObjectInputStream](http://docs.google.com/java/io/ObjectInputStream.html) ois)            called by readObject after defaultReadObject() but prior to deserialization of any children. |
| protected  void | **BeanContextServicesSupport.**[**bcsPreSerializationHook**](http://docs.google.com/java/beans/beancontext/BeanContextServicesSupport.html#bcsPreSerializationHook(java.io.ObjectOutputStream))([ObjectOutputStream](http://docs.google.com/java/io/ObjectOutputStream.html) oos)            called from BeanContextSupport writeObject before it serializes the children ... |
| protected  void | **BeanContextSupport.**[**bcsPreSerializationHook**](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#bcsPreSerializationHook(java.io.ObjectOutputStream))([ObjectOutputStream](http://docs.google.com/java/io/ObjectOutputStream.html) oos)            called by writeObject after defaultWriteObject() but prior to serialization of currently serializable children. |
| protected  void | **BeanContextSupport.**[**deserialize**](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#deserialize(java.io.ObjectInputStream,%20java.util.Collection))([ObjectInputStream](http://docs.google.com/java/io/ObjectInputStream.html) ois, [Collection](http://docs.google.com/java/util/Collection.html) coll)            used by readObject to deserialize a collection. |
| [Object](http://docs.google.com/java/lang/Object.html) | **BeanContextSupport.**[**instantiateChild**](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#instantiateChild(java.lang.String))([String](http://docs.google.com/java/lang/String.html) beanName)             The instantiateChild method is a convenience hook in BeanContext to simplify the task of instantiating a Bean, nested, into a BeanContext. |
| [Object](http://docs.google.com/java/lang/Object.html) | **BeanContext.**[**instantiateChild**](http://docs.google.com/java/beans/beancontext/BeanContext.html#instantiateChild(java.lang.String))([String](http://docs.google.com/java/lang/String.html) beanName)            Instantiate the javaBean named as a child of this BeanContext. |
| void | **BeanContextSupport.**[**readChildren**](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#readChildren(java.io.ObjectInputStream))([ObjectInputStream](http://docs.google.com/java/io/ObjectInputStream.html) ois)            When an instance of this class is used as a delegate for the implementation of the BeanContext protocols (and its subprotocols) there exists a 'chicken and egg' problem during deserialization |
| protected  void | **BeanContextSupport.**[**serialize**](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#serialize(java.io.ObjectOutputStream,%20java.util.Collection))([ObjectOutputStream](http://docs.google.com/java/io/ObjectOutputStream.html) oos, [Collection](http://docs.google.com/java/util/Collection.html) coll)            Used by writeObject to serialize a Collection. |
| void | **BeanContextSupport.**[**writeChildren**](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#writeChildren(java.io.ObjectOutputStream))([ObjectOutputStream](http://docs.google.com/java/io/ObjectOutputStream.html) oos)            Used to serialize all children of this BeanContext. |

| Uses of [IOException](http://docs.google.com/java/io/IOException.html) in [java.io](http://docs.google.com/java/io/package-summary.html) | |
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| Subclasses of [IOException](http://docs.google.com/java/io/IOException.html) in [java.io](http://docs.google.com/java/io/package-summary.html) | |
| --- | --- |
| class | [**CharConversionException**](http://docs.google.com/java/io/CharConversionException.html)            Base class for character conversion exceptions. |
| class | [**EOFException**](http://docs.google.com/java/io/EOFException.html)            Signals that an end of file or end of stream has been reached unexpectedly during input. |
| class | [**FileNotFoundException**](http://docs.google.com/java/io/FileNotFoundException.html)            Signals that an attempt to open the file denoted by a specified pathname has failed. |
| class | [**InterruptedIOException**](http://docs.google.com/java/io/InterruptedIOException.html)            Signals that an I/O operation has been interrupted. |
| class | [**InvalidClassException**](http://docs.google.com/java/io/InvalidClassException.html)            Thrown when the Serialization runtime detects one of the following problems with a Class. |
| class | [**InvalidObjectException**](http://docs.google.com/java/io/InvalidObjectException.html)            Indicates that one or more deserialized objects failed validation tests. |
| class | [**NotActiveException**](http://docs.google.com/java/io/NotActiveException.html)            Thrown when serialization or deserialization is not active. |
| class | [**NotSerializableException**](http://docs.google.com/java/io/NotSerializableException.html)            Thrown when an instance is required to have a Serializable interface. |
| class | [**ObjectStreamException**](http://docs.google.com/java/io/ObjectStreamException.html)            Superclass of all exceptions specific to Object Stream classes. |
| class | [**OptionalDataException**](http://docs.google.com/java/io/OptionalDataException.html)            Exception indicating the failure of an object read operation due to unread primitive data, or the end of data belonging to a serialized object in the stream. |
| class | [**StreamCorruptedException**](http://docs.google.com/java/io/StreamCorruptedException.html)            Thrown when control information that was read from an object stream violates internal consistency checks. |
| class | [**SyncFailedException**](http://docs.google.com/java/io/SyncFailedException.html)            Signals that a sync operation has failed. |
| class | [**UnsupportedEncodingException**](http://docs.google.com/java/io/UnsupportedEncodingException.html)            The Character Encoding is not supported. |
| class | [**UTFDataFormatException**](http://docs.google.com/java/io/UTFDataFormatException.html)            Signals that a malformed string in [modified UTF-8](http://docs.google.com/java/io/DataInput.html#modified-utf-8) format has been read in a data input stream or by any class that implements the data input interface. |
| class | [**WriteAbortedException**](http://docs.google.com/java/io/WriteAbortedException.html)            Signals that one of the ObjectStreamExceptions was thrown during a write operation. |

| Methods in [java.io](http://docs.google.com/java/io/package-summary.html) that throw [IOException](http://docs.google.com/java/io/IOException.html) | |
| --- | --- |
| protected  void | **ObjectOutputStream.**[**annotateClass**](http://docs.google.com/java/io/ObjectOutputStream.html#annotateClass(java.lang.Class))([Class](http://docs.google.com/java/lang/Class.html)<?> cl)            Subclasses may implement this method to allow class data to be stored in the stream. |
| protected  void | **ObjectOutputStream.**[**annotateProxyClass**](http://docs.google.com/java/io/ObjectOutputStream.html#annotateProxyClass(java.lang.Class))([Class](http://docs.google.com/java/lang/Class.html)<?> cl)            Subclasses may implement this method to store custom data in the stream along with descriptors for dynamic proxy classes. |
| [Writer](http://docs.google.com/java/io/Writer.html) | **Writer.**[**append**](http://docs.google.com/java/io/Writer.html#append(char))(char c)            Appends the specified character to this writer. |
| [Writer](http://docs.google.com/java/io/Writer.html) | **Writer.**[**append**](http://docs.google.com/java/io/Writer.html#append(java.lang.CharSequence))([CharSequence](http://docs.google.com/java/lang/CharSequence.html) csq)            Appends the specified character sequence to this writer. |
| [Writer](http://docs.google.com/java/io/Writer.html) | **Writer.**[**append**](http://docs.google.com/java/io/Writer.html#append(java.lang.CharSequence,%20int,%20int))([CharSequence](http://docs.google.com/java/lang/CharSequence.html) csq, int start, int end)            Appends a subsequence of the specified character sequence to this writer. |
| int | **LineNumberInputStream.**[**available**](http://docs.google.com/java/io/LineNumberInputStream.html#available())()  **Deprecated.** Returns the number of bytes that can be read from this input stream without blocking. |
| int | **SequenceInputStream.**[**available**](http://docs.google.com/java/io/SequenceInputStream.html#available())()            Returns an estimate of the number of bytes that can be read (or skipped over) from the current underlying input stream without blocking by the next invocation of a method for the current underlying input stream. |
| int | **PushbackInputStream.**[**available**](http://docs.google.com/java/io/PushbackInputStream.html#available())()            Returns an estimate of the number of bytes that can be read (or skipped over) from this input stream without blocking by the next invocation of a method for this input stream. |
| int | **BufferedInputStream.**[**available**](http://docs.google.com/java/io/BufferedInputStream.html#available())()            Returns an estimate of the number of bytes that can be read (or skipped over) from this input stream without blocking by the next invocation of a method for this input stream. |
| int | **FileInputStream.**[**available**](http://docs.google.com/java/io/FileInputStream.html#available())()            Returns an estimate of the number of remaining bytes that can be read (or skipped over) from this input stream without blocking by the next invocation of a method for this input stream. |
| int | **PipedInputStream.**[**available**](http://docs.google.com/java/io/PipedInputStream.html#available())()            Returns the number of bytes that can be read from this input stream without blocking. |
| int | **ObjectInput.**[**available**](http://docs.google.com/java/io/ObjectInput.html#available())()            Returns the number of bytes that can be read without blocking. |
| int | **ObjectInputStream.**[**available**](http://docs.google.com/java/io/ObjectInputStream.html#available())()            Returns the number of bytes that can be read without blocking. |
| int | **FilterInputStream.**[**available**](http://docs.google.com/java/io/FilterInputStream.html#available())()            Returns an estimate of the number of bytes that can be read (or skipped over) from this input stream without blocking by the next caller of a method for this input stream. |
| int | **InputStream.**[**available**](http://docs.google.com/java/io/InputStream.html#available())()            Returns an estimate of the number of bytes that can be read (or skipped over) from this input stream without blocking by the next invocation of a method for this input stream. |
| void | **StringWriter.**[**close**](http://docs.google.com/java/io/StringWriter.html#close())()            Closing a StringWriter has no effect. |
| void | **FilterWriter.**[**close**](http://docs.google.com/java/io/FilterWriter.html#close())() |
| void | **PipedWriter.**[**close**](http://docs.google.com/java/io/PipedWriter.html#close())()            Closes this piped output stream and releases any system resources associated with this stream. |
| void | **PipedReader.**[**close**](http://docs.google.com/java/io/PipedReader.html#close())()            Closes this piped stream and releases any system resources associated with the stream. |
| void | **InputStreamReader.**[**close**](http://docs.google.com/java/io/InputStreamReader.html#close())() |
| void | **PushbackReader.**[**close**](http://docs.google.com/java/io/PushbackReader.html#close())()            Closes the stream and releases any system resources associated with it. |
| void | **FilterReader.**[**close**](http://docs.google.com/java/io/FilterReader.html#close())() |
| void | **RandomAccessFile.**[**close**](http://docs.google.com/java/io/RandomAccessFile.html#close())()            Closes this random access file stream and releases any system resources associated with the stream. |
| void | **ByteArrayOutputStream.**[**close**](http://docs.google.com/java/io/ByteArrayOutputStream.html#close())()            Closing a ByteArrayOutputStream has no effect. |
| void | **FileOutputStream.**[**close**](http://docs.google.com/java/io/FileOutputStream.html#close())()            Closes this file output stream and releases any system resources associated with this stream. |
| void | **SequenceInputStream.**[**close**](http://docs.google.com/java/io/SequenceInputStream.html#close())()            Closes this input stream and releases any system resources associated with the stream. |
| void | **PushbackInputStream.**[**close**](http://docs.google.com/java/io/PushbackInputStream.html#close())()            Closes this input stream and releases any system resources associated with the stream. |
| void | **ByteArrayInputStream.**[**close**](http://docs.google.com/java/io/ByteArrayInputStream.html#close())()            Closing a ByteArrayInputStream has no effect. |
| void | **BufferedInputStream.**[**close**](http://docs.google.com/java/io/BufferedInputStream.html#close())()            Closes this input stream and releases any system resources associated with the stream. |
| void | **FileInputStream.**[**close**](http://docs.google.com/java/io/FileInputStream.html#close())()            Closes this file input stream and releases any system resources associated with the stream. |
| void | **PipedOutputStream.**[**close**](http://docs.google.com/java/io/PipedOutputStream.html#close())()            Closes this piped output stream and releases any system resources associated with this stream. |
| void | **PipedInputStream.**[**close**](http://docs.google.com/java/io/PipedInputStream.html#close())()            Closes this piped input stream and releases any system resources associated with the stream. |
| void | **BufferedReader.**[**close**](http://docs.google.com/java/io/BufferedReader.html#close())() |
| abstract  void | **Reader.**[**close**](http://docs.google.com/java/io/Reader.html#close())()            Closes the stream and releases any system resources associated with it. |
| void | **OutputStreamWriter.**[**close**](http://docs.google.com/java/io/OutputStreamWriter.html#close())() |
| void | **BufferedWriter.**[**close**](http://docs.google.com/java/io/BufferedWriter.html#close())() |
| void | **ObjectInput.**[**close**](http://docs.google.com/java/io/ObjectInput.html#close())()            Closes the input stream. |
| void | **ObjectInputStream.**[**close**](http://docs.google.com/java/io/ObjectInputStream.html#close())()            Closes the input stream. |
| void | **FilterInputStream.**[**close**](http://docs.google.com/java/io/FilterInputStream.html#close())()            Closes this input stream and releases any system resources associated with the stream. |
| void | **ObjectOutput.**[**close**](http://docs.google.com/java/io/ObjectOutput.html#close())()            Closes the stream. |
| void | **ObjectOutputStream.**[**close**](http://docs.google.com/java/io/ObjectOutputStream.html#close())()            Closes the stream. |
| abstract  void | **Writer.**[**close**](http://docs.google.com/java/io/Writer.html#close())()            Closes the stream, flushing it first. |
| void | **OutputStream.**[**close**](http://docs.google.com/java/io/OutputStream.html#close())()            Closes this output stream and releases any system resources associated with this stream. |
| void | **FilterOutputStream.**[**close**](http://docs.google.com/java/io/FilterOutputStream.html#close())()            Closes this output stream and releases any system resources associated with the stream. |
| void | **Closeable.**[**close**](http://docs.google.com/java/io/Closeable.html#close())()            Closes this stream and releases any system resources associated with it. |
| void | **InputStream.**[**close**](http://docs.google.com/java/io/InputStream.html#close())()            Closes this input stream and releases any system resources associated with the stream. |
| void | **PipedOutputStream.**[**connect**](http://docs.google.com/java/io/PipedOutputStream.html#connect(java.io.PipedInputStream))([PipedInputStream](http://docs.google.com/java/io/PipedInputStream.html) snk)            Connects this piped output stream to a receiver. |
| void | **PipedInputStream.**[**connect**](http://docs.google.com/java/io/PipedInputStream.html#connect(java.io.PipedOutputStream))([PipedOutputStream](http://docs.google.com/java/io/PipedOutputStream.html) src)            Causes this piped input stream to be connected to the piped output stream src. |
| void | **PipedWriter.**[**connect**](http://docs.google.com/java/io/PipedWriter.html#connect(java.io.PipedReader))([PipedReader](http://docs.google.com/java/io/PipedReader.html) snk)            Connects this piped writer to a receiver. |
| void | **PipedReader.**[**connect**](http://docs.google.com/java/io/PipedReader.html#connect(java.io.PipedWriter))([PipedWriter](http://docs.google.com/java/io/PipedWriter.html) src)            Causes this piped reader to be connected to the piped writer src. |
| boolean | **File.**[**createNewFile**](http://docs.google.com/java/io/File.html#createNewFile())()            Atomically creates a new, empty file named by this abstract pathname if and only if a file with this name does not yet exist. |
| static [File](http://docs.google.com/java/io/File.html) | **File.**[**createTempFile**](http://docs.google.com/java/io/File.html#createTempFile(java.lang.String,%20java.lang.String))([String](http://docs.google.com/java/lang/String.html) prefix, [String](http://docs.google.com/java/lang/String.html) suffix)            Creates an empty file in the default temporary-file directory, using the given prefix and suffix to generate its name. |
| static [File](http://docs.google.com/java/io/File.html) | **File.**[**createTempFile**](http://docs.google.com/java/io/File.html#createTempFile(java.lang.String,%20java.lang.String,%20java.io.File))([String](http://docs.google.com/java/lang/String.html) prefix, [String](http://docs.google.com/java/lang/String.html) suffix, [File](http://docs.google.com/java/io/File.html) directory)             Creates a new empty file in the specified directory, using the given prefix and suffix strings to generate its name. |
| abstract  boolean | **ObjectInputStream.GetField.**[**defaulted**](http://docs.google.com/java/io/ObjectInputStream.GetField.html#defaulted(java.lang.String))([String](http://docs.google.com/java/lang/String.html) name)            Return true if the named field is defaulted and has no value in this stream. |
| void | **ObjectInputStream.**[**defaultReadObject**](http://docs.google.com/java/io/ObjectInputStream.html#defaultReadObject())()            Read the non-static and non-transient fields of the current class from this stream. |
| void | **ObjectOutputStream.**[**defaultWriteObject**](http://docs.google.com/java/io/ObjectOutputStream.html#defaultWriteObject())()            Write the non-static and non-transient fields of the current class to this stream. |
| protected  void | **ObjectOutputStream.**[**drain**](http://docs.google.com/java/io/ObjectOutputStream.html#drain())()            Drain any buffered data in ObjectOutputStream. |
| protected  void | **FileOutputStream.**[**finalize**](http://docs.google.com/java/io/FileOutputStream.html#finalize())()            Cleans up the connection to the file, and ensures that the close method of this file output stream is called when there are no more references to this stream. |
| protected  void | **FileInputStream.**[**finalize**](http://docs.google.com/java/io/FileInputStream.html#finalize())()            Ensures that the close method of this file input stream is called when there are no more references to it. |
| void | **FilterWriter.**[**flush**](http://docs.google.com/java/io/FilterWriter.html#flush())()            Flushes the stream. |
| void | **PipedWriter.**[**flush**](http://docs.google.com/java/io/PipedWriter.html#flush())()            Flushes this output stream and forces any buffered output characters to be written out. |
| void | **BufferedOutputStream.**[**flush**](http://docs.google.com/java/io/BufferedOutputStream.html#flush())()            Flushes this buffered output stream. |
| void | **PipedOutputStream.**[**flush**](http://docs.google.com/java/io/PipedOutputStream.html#flush())()            Flushes this output stream and forces any buffered output bytes to be written out. |
| void | **OutputStreamWriter.**[**flush**](http://docs.google.com/java/io/OutputStreamWriter.html#flush())()            Flushes the stream. |
| void | **BufferedWriter.**[**flush**](http://docs.google.com/java/io/BufferedWriter.html#flush())()            Flushes the stream. |
| void | **DataOutputStream.**[**flush**](http://docs.google.com/java/io/DataOutputStream.html#flush())()            Flushes this data output stream. |
| void | **ObjectOutput.**[**flush**](http://docs.google.com/java/io/ObjectOutput.html#flush())()            Flushes the stream. |
| void | **ObjectOutputStream.**[**flush**](http://docs.google.com/java/io/ObjectOutputStream.html#flush())()            Flushes the stream. |
| abstract  void | **Writer.**[**flush**](http://docs.google.com/java/io/Writer.html#flush())()            Flushes the stream. |
| void | **Flushable.**[**flush**](http://docs.google.com/java/io/Flushable.html#flush())()            Flushes this stream by writing any buffered output to the underlying stream. |
| void | **OutputStream.**[**flush**](http://docs.google.com/java/io/OutputStream.html#flush())()            Flushes this output stream and forces any buffered output bytes to be written out. |
| void | **FilterOutputStream.**[**flush**](http://docs.google.com/java/io/FilterOutputStream.html#flush())()            Flushes this output stream and forces any buffered output bytes to be written out to the stream. |
| abstract  boolean | **ObjectInputStream.GetField.**[**get**](http://docs.google.com/java/io/ObjectInputStream.GetField.html#get(java.lang.String,%20boolean))([String](http://docs.google.com/java/lang/String.html) name, boolean val)            Get the value of the named boolean field from the persistent field. |
| abstract  byte | **ObjectInputStream.GetField.**[**get**](http://docs.google.com/java/io/ObjectInputStream.GetField.html#get(java.lang.String,%20byte))([String](http://docs.google.com/java/lang/String.html) name, byte val)            Get the value of the named byte field from the persistent field. |
| abstract  char | **ObjectInputStream.GetField.**[**get**](http://docs.google.com/java/io/ObjectInputStream.GetField.html#get(java.lang.String,%20char))([String](http://docs.google.com/java/lang/String.html) name, char val)            Get the value of the named char field from the persistent field. |
| abstract  double | **ObjectInputStream.GetField.**[**get**](http://docs.google.com/java/io/ObjectInputStream.GetField.html#get(java.lang.String,%20double))([String](http://docs.google.com/java/lang/String.html) name, double val)            Get the value of the named double field from the persistent field. |
| abstract  float | **ObjectInputStream.GetField.**[**get**](http://docs.google.com/java/io/ObjectInputStream.GetField.html#get(java.lang.String,%20float))([String](http://docs.google.com/java/lang/String.html) name, float val)            Get the value of the named float field from the persistent field. |
| abstract  int | **ObjectInputStream.GetField.**[**get**](http://docs.google.com/java/io/ObjectInputStream.GetField.html#get(java.lang.String,%20int))([String](http://docs.google.com/java/lang/String.html) name, int val)            Get the value of the named int field from the persistent field. |
| abstract  long | **ObjectInputStream.GetField.**[**get**](http://docs.google.com/java/io/ObjectInputStream.GetField.html#get(java.lang.String,%20long))([String](http://docs.google.com/java/lang/String.html) name, long val)            Get the value of the named long field from the persistent field. |
| abstract  [Object](http://docs.google.com/java/lang/Object.html) | **ObjectInputStream.GetField.**[**get**](http://docs.google.com/java/io/ObjectInputStream.GetField.html#get(java.lang.String,%20java.lang.Object))([String](http://docs.google.com/java/lang/String.html) name, [Object](http://docs.google.com/java/lang/Object.html) val)            Get the value of the named Object field from the persistent field. |
| abstract  short | **ObjectInputStream.GetField.**[**get**](http://docs.google.com/java/io/ObjectInputStream.GetField.html#get(java.lang.String,%20short))([String](http://docs.google.com/java/lang/String.html) name, short val)            Get the value of the named short field from the persistent field. |
| [File](http://docs.google.com/java/io/File.html) | **File.**[**getCanonicalFile**](http://docs.google.com/java/io/File.html#getCanonicalFile())()            Returns the canonical form of this abstract pathname. |
| [String](http://docs.google.com/java/lang/String.html) | **File.**[**getCanonicalPath**](http://docs.google.com/java/io/File.html#getCanonicalPath())()            Returns the canonical pathname string of this abstract pathname. |
| [FileDescriptor](http://docs.google.com/java/io/FileDescriptor.html) | **RandomAccessFile.**[**getFD**](http://docs.google.com/java/io/RandomAccessFile.html#getFD())()            Returns the opaque file descriptor object associated with this stream. |
| [FileDescriptor](http://docs.google.com/java/io/FileDescriptor.html) | **FileOutputStream.**[**getFD**](http://docs.google.com/java/io/FileOutputStream.html#getFD())()            Returns the file descriptor associated with this stream. |
| [FileDescriptor](http://docs.google.com/java/io/FileDescriptor.html) | **FileInputStream.**[**getFD**](http://docs.google.com/java/io/FileInputStream.html#getFD())()            Returns the FileDescriptor object that represents the connection to the actual file in the file system being used by this FileInputStream. |
| long | **RandomAccessFile.**[**getFilePointer**](http://docs.google.com/java/io/RandomAccessFile.html#getFilePointer())()            Returns the current offset in this file. |
| long | **RandomAccessFile.**[**length**](http://docs.google.com/java/io/RandomAccessFile.html#length())()            Returns the length of this file. |
| void | **StringReader.**[**mark**](http://docs.google.com/java/io/StringReader.html#mark(int))(int readAheadLimit)            Marks the present position in the stream. |
| void | **PushbackReader.**[**mark**](http://docs.google.com/java/io/PushbackReader.html#mark(int))(int readAheadLimit)            Marks the present position in the stream. |
| void | **FilterReader.**[**mark**](http://docs.google.com/java/io/FilterReader.html#mark(int))(int readAheadLimit)            Marks the present position in the stream. |
| void | **CharArrayReader.**[**mark**](http://docs.google.com/java/io/CharArrayReader.html#mark(int))(int readAheadLimit)            Marks the present position in the stream. |
| void | **LineNumberReader.**[**mark**](http://docs.google.com/java/io/LineNumberReader.html#mark(int))(int readAheadLimit)            Mark the present position in the stream. |
| void | **BufferedReader.**[**mark**](http://docs.google.com/java/io/BufferedReader.html#mark(int))(int readAheadLimit)            Marks the present position in the stream. |
| void | **Reader.**[**mark**](http://docs.google.com/java/io/Reader.html#mark(int))(int readAheadLimit)            Marks the present position in the stream. |
| void | **BufferedWriter.**[**newLine**](http://docs.google.com/java/io/BufferedWriter.html#newLine())()            Writes a line separator. |
| int | **StreamTokenizer.**[**nextToken**](http://docs.google.com/java/io/StreamTokenizer.html#nextToken())()            Parses the next token from the input stream of this tokenizer. |
| [ObjectOutputStream.PutField](http://docs.google.com/java/io/ObjectOutputStream.PutField.html) | **ObjectOutputStream.**[**putFields**](http://docs.google.com/java/io/ObjectOutputStream.html#putFields())()            Retrieve the object used to buffer persistent fields to be written to the stream. |
| int | **StringReader.**[**read**](http://docs.google.com/java/io/StringReader.html#read())()            Reads a single character. |
| int | **PipedReader.**[**read**](http://docs.google.com/java/io/PipedReader.html#read())()            Reads the next character of data from this piped stream. |
| int | **InputStreamReader.**[**read**](http://docs.google.com/java/io/InputStreamReader.html#read())()            Reads a single character. |
| int | **PushbackReader.**[**read**](http://docs.google.com/java/io/PushbackReader.html#read())()            Reads a single character. |
| int | **FilterReader.**[**read**](http://docs.google.com/java/io/FilterReader.html#read())()            Reads a single character. |
| int | **CharArrayReader.**[**read**](http://docs.google.com/java/io/CharArrayReader.html#read())()            Reads a single character. |
| int | **LineNumberReader.**[**read**](http://docs.google.com/java/io/LineNumberReader.html#read())()            Read a single character. |
| int | **RandomAccessFile.**[**read**](http://docs.google.com/java/io/RandomAccessFile.html#read())()            Reads a byte of data from this file. |
| int | **LineNumberInputStream.**[**read**](http://docs.google.com/java/io/LineNumberInputStream.html#read())()  **Deprecated.** Reads the next byte of data from this input stream. |
| int | **SequenceInputStream.**[**read**](http://docs.google.com/java/io/SequenceInputStream.html#read())()            Reads the next byte of data from this input stream. |
| int | **PushbackInputStream.**[**read**](http://docs.google.com/java/io/PushbackInputStream.html#read())()            Reads the next byte of data from this input stream. |
| int | **BufferedInputStream.**[**read**](http://docs.google.com/java/io/BufferedInputStream.html#read())()            See the general contract of the read method of InputStream. |
| int | **FileInputStream.**[**read**](http://docs.google.com/java/io/FileInputStream.html#read())()            Reads a byte of data from this input stream. |
| int | **PipedInputStream.**[**read**](http://docs.google.com/java/io/PipedInputStream.html#read())()            Reads the next byte of data from this piped input stream. |
| int | **BufferedReader.**[**read**](http://docs.google.com/java/io/BufferedReader.html#read())()            Reads a single character. |
| int | **Reader.**[**read**](http://docs.google.com/java/io/Reader.html#read())()            Reads a single character. |
| int | **ObjectInput.**[**read**](http://docs.google.com/java/io/ObjectInput.html#read())()            Reads a byte of data. |
| int | **ObjectInputStream.**[**read**](http://docs.google.com/java/io/ObjectInputStream.html#read())()            Reads a byte of data. |
| int | **FilterInputStream.**[**read**](http://docs.google.com/java/io/FilterInputStream.html#read())()            Reads the next byte of data from this input stream. |
| abstract  int | **InputStream.**[**read**](http://docs.google.com/java/io/InputStream.html#read())()            Reads the next byte of data from the input stream. |
| int | **RandomAccessFile.**[**read**](http://docs.google.com/java/io/RandomAccessFile.html#read(byte%5B%5D))(byte[] b)            Reads up to b.length bytes of data from this file into an array of bytes. |
| int | **FileInputStream.**[**read**](http://docs.google.com/java/io/FileInputStream.html#read(byte%5B%5D))(byte[] b)            Reads up to b.length bytes of data from this input stream into an array of bytes. |
| int | **DataInputStream.**[**read**](http://docs.google.com/java/io/DataInputStream.html#read(byte%5B%5D))(byte[] b)            Reads some number of bytes from the contained input stream and stores them into the buffer array b. |
| int | **ObjectInput.**[**read**](http://docs.google.com/java/io/ObjectInput.html#read(byte%5B%5D))(byte[] b)            Reads into an array of bytes. |
| int | **FilterInputStream.**[**read**](http://docs.google.com/java/io/FilterInputStream.html#read(byte%5B%5D))(byte[] b)            Reads up to byte.length bytes of data from this input stream into an array of bytes. |
| int | **InputStream.**[**read**](http://docs.google.com/java/io/InputStream.html#read(byte%5B%5D))(byte[] b)            Reads some number of bytes from the input stream and stores them into the buffer array b. |
| int | **RandomAccessFile.**[**read**](http://docs.google.com/java/io/RandomAccessFile.html#read(byte%5B%5D,%20int,%20int))(byte[] b, int off, int len)            Reads up to len bytes of data from this file into an array of bytes. |
| int | **LineNumberInputStream.**[**read**](http://docs.google.com/java/io/LineNumberInputStream.html#read(byte%5B%5D,%20int,%20int))(byte[] b, int off, int len)  **Deprecated.** Reads up to len bytes of data from this input stream into an array of bytes. |
| int | **SequenceInputStream.**[**read**](http://docs.google.com/java/io/SequenceInputStream.html#read(byte%5B%5D,%20int,%20int))(byte[] b, int off, int len)            Reads up to len bytes of data from this input stream into an array of bytes. |
| int | **PushbackInputStream.**[**read**](http://docs.google.com/java/io/PushbackInputStream.html#read(byte%5B%5D,%20int,%20int))(byte[] b, int off, int len)            Reads up to len bytes of data from this input stream into an array of bytes. |
| int | **BufferedInputStream.**[**read**](http://docs.google.com/java/io/BufferedInputStream.html#read(byte%5B%5D,%20int,%20int))(byte[] b, int off, int len)            Reads bytes from this byte-input stream into the specified byte array, starting at the given offset. |
| int | **FileInputStream.**[**read**](http://docs.google.com/java/io/FileInputStream.html#read(byte%5B%5D,%20int,%20int))(byte[] b, int off, int len)            Reads up to len bytes of data from this input stream into an array of bytes. |
| int | **PipedInputStream.**[**read**](http://docs.google.com/java/io/PipedInputStream.html#read(byte%5B%5D,%20int,%20int))(byte[] b, int off, int len)            Reads up to len bytes of data from this piped input stream into an array of bytes. |
| int | **DataInputStream.**[**read**](http://docs.google.com/java/io/DataInputStream.html#read(byte%5B%5D,%20int,%20int))(byte[] b, int off, int len)            Reads up to len bytes of data from the contained input stream into an array of bytes. |
| int | **ObjectInput.**[**read**](http://docs.google.com/java/io/ObjectInput.html#read(byte%5B%5D,%20int,%20int))(byte[] b, int off, int len)            Reads into an array of bytes. |
| int | **ObjectInputStream.**[**read**](http://docs.google.com/java/io/ObjectInputStream.html#read(byte%5B%5D,%20int,%20int))(byte[] buf, int off, int len)            Reads into an array of bytes. |
| int | **FilterInputStream.**[**read**](http://docs.google.com/java/io/FilterInputStream.html#read(byte%5B%5D,%20int,%20int))(byte[] b, int off, int len)            Reads up to len bytes of data from this input stream into an array of bytes. |
| int | **InputStream.**[**read**](http://docs.google.com/java/io/InputStream.html#read(byte%5B%5D,%20int,%20int))(byte[] b, int off, int len)            Reads up to len bytes of data from the input stream into an array of bytes. |
| int | **Reader.**[**read**](http://docs.google.com/java/io/Reader.html#read(char%5B%5D))(char[] cbuf)            Reads characters into an array. |
| int | **StringReader.**[**read**](http://docs.google.com/java/io/StringReader.html#read(char%5B%5D,%20int,%20int))(char[] cbuf, int off, int len)            Reads characters into a portion of an array. |
| int | **PipedReader.**[**read**](http://docs.google.com/java/io/PipedReader.html#read(char%5B%5D,%20int,%20int))(char[] cbuf, int off, int len)            Reads up to len characters of data from this piped stream into an array of characters. |
| int | **InputStreamReader.**[**read**](http://docs.google.com/java/io/InputStreamReader.html#read(char%5B%5D,%20int,%20int))(char[] cbuf, int offset, int length)            Reads characters into a portion of an array. |
| int | **PushbackReader.**[**read**](http://docs.google.com/java/io/PushbackReader.html#read(char%5B%5D,%20int,%20int))(char[] cbuf, int off, int len)            Reads characters into a portion of an array. |
| int | **FilterReader.**[**read**](http://docs.google.com/java/io/FilterReader.html#read(char%5B%5D,%20int,%20int))(char[] cbuf, int off, int len)            Reads characters into a portion of an array. |
| int | **CharArrayReader.**[**read**](http://docs.google.com/java/io/CharArrayReader.html#read(char%5B%5D,%20int,%20int))(char[] b, int off, int len)            Reads characters into a portion of an array. |
| int | **LineNumberReader.**[**read**](http://docs.google.com/java/io/LineNumberReader.html#read(char%5B%5D,%20int,%20int))(char[] cbuf, int off, int len)            Read characters into a portion of an array. |
| int | **BufferedReader.**[**read**](http://docs.google.com/java/io/BufferedReader.html#read(char%5B%5D,%20int,%20int))(char[] cbuf, int off, int len)            Reads characters into a portion of an array. |
| abstract  int | **Reader.**[**read**](http://docs.google.com/java/io/Reader.html#read(char%5B%5D,%20int,%20int))(char[] cbuf, int off, int len)            Reads characters into a portion of an array. |
| int | **Reader.**[**read**](http://docs.google.com/java/io/Reader.html#read(java.nio.CharBuffer))([CharBuffer](http://docs.google.com/java/nio/CharBuffer.html) target)            Attempts to read characters into the specified character buffer. |
| boolean | **RandomAccessFile.**[**readBoolean**](http://docs.google.com/java/io/RandomAccessFile.html#readBoolean())()            Reads a boolean from this file. |
| boolean | **DataInputStream.**[**readBoolean**](http://docs.google.com/java/io/DataInputStream.html#readBoolean())()            See the general contract of the readBoolean method of DataInput. |
| boolean | **DataInput.**[**readBoolean**](http://docs.google.com/java/io/DataInput.html#readBoolean())()            Reads one input byte and returns true if that byte is nonzero, false if that byte is zero. |
| boolean | **ObjectInputStream.**[**readBoolean**](http://docs.google.com/java/io/ObjectInputStream.html#readBoolean())()            Reads in a boolean. |
| byte | **RandomAccessFile.**[**readByte**](http://docs.google.com/java/io/RandomAccessFile.html#readByte())()            Reads a signed eight-bit value from this file. |
| byte | **DataInputStream.**[**readByte**](http://docs.google.com/java/io/DataInputStream.html#readByte())()            See the general contract of the readByte method of DataInput. |
| byte | **DataInput.**[**readByte**](http://docs.google.com/java/io/DataInput.html#readByte())()            Reads and returns one input byte. |
| byte | **ObjectInputStream.**[**readByte**](http://docs.google.com/java/io/ObjectInputStream.html#readByte())()            Reads an 8 bit byte. |
| char | **RandomAccessFile.**[**readChar**](http://docs.google.com/java/io/RandomAccessFile.html#readChar())()            Reads a character from this file. |
| char | **DataInputStream.**[**readChar**](http://docs.google.com/java/io/DataInputStream.html#readChar())()            See the general contract of the readChar method of DataInput. |
| char | **DataInput.**[**readChar**](http://docs.google.com/java/io/DataInput.html#readChar())()            Reads two input bytes and returns a char value. |
| char | **ObjectInputStream.**[**readChar**](http://docs.google.com/java/io/ObjectInputStream.html#readChar())()            Reads a 16 bit char. |
| protected  [ObjectStreamClass](http://docs.google.com/java/io/ObjectStreamClass.html) | **ObjectInputStream.**[**readClassDescriptor**](http://docs.google.com/java/io/ObjectInputStream.html#readClassDescriptor())()            Read a class descriptor from the serialization stream. |
| double | **RandomAccessFile.**[**readDouble**](http://docs.google.com/java/io/RandomAccessFile.html#readDouble())()            Reads a double from this file. |
| double | **DataInputStream.**[**readDouble**](http://docs.google.com/java/io/DataInputStream.html#readDouble())()            See the general contract of the readDouble method of DataInput. |
| double | **DataInput.**[**readDouble**](http://docs.google.com/java/io/DataInput.html#readDouble())()            Reads eight input bytes and returns a double value. |
| double | **ObjectInputStream.**[**readDouble**](http://docs.google.com/java/io/ObjectInputStream.html#readDouble())()            Reads a 64 bit double. |
| void | **Externalizable.**[**readExternal**](http://docs.google.com/java/io/Externalizable.html#readExternal(java.io.ObjectInput))([ObjectInput](http://docs.google.com/java/io/ObjectInput.html) in)            The object implements the readExternal method to restore its contents by calling the methods of DataInput for primitive types and readObject for objects, strings and arrays. |
| [ObjectInputStream.GetField](http://docs.google.com/java/io/ObjectInputStream.GetField.html) | **ObjectInputStream.**[**readFields**](http://docs.google.com/java/io/ObjectInputStream.html#readFields())()            Reads the persistent fields from the stream and makes them available by name. |
| float | **RandomAccessFile.**[**readFloat**](http://docs.google.com/java/io/RandomAccessFile.html#readFloat())()            Reads a float from this file. |
| float | **DataInputStream.**[**readFloat**](http://docs.google.com/java/io/DataInputStream.html#readFloat())()            See the general contract of the readFloat method of DataInput. |
| float | **DataInput.**[**readFloat**](http://docs.google.com/java/io/DataInput.html#readFloat())()            Reads four input bytes and returns a float value. |
| float | **ObjectInputStream.**[**readFloat**](http://docs.google.com/java/io/ObjectInputStream.html#readFloat())()            Reads a 32 bit float. |
| void | **RandomAccessFile.**[**readFully**](http://docs.google.com/java/io/RandomAccessFile.html#readFully(byte%5B%5D))(byte[] b)            Reads b.length bytes from this file into the byte array, starting at the current file pointer. |
| void | **DataInputStream.**[**readFully**](http://docs.google.com/java/io/DataInputStream.html#readFully(byte%5B%5D))(byte[] b)            See the general contract of the readFully method of DataInput. |
| void | **DataInput.**[**readFully**](http://docs.google.com/java/io/DataInput.html#readFully(byte%5B%5D))(byte[] b)            Reads some bytes from an input stream and stores them into the buffer array b. |
| void | **ObjectInputStream.**[**readFully**](http://docs.google.com/java/io/ObjectInputStream.html#readFully(byte%5B%5D))(byte[] buf)            Reads bytes, blocking until all bytes are read. |
| void | **RandomAccessFile.**[**readFully**](http://docs.google.com/java/io/RandomAccessFile.html#readFully(byte%5B%5D,%20int,%20int))(byte[] b, int off, int len)            Reads exactly len bytes from this file into the byte array, starting at the current file pointer. |
| void | **DataInputStream.**[**readFully**](http://docs.google.com/java/io/DataInputStream.html#readFully(byte%5B%5D,%20int,%20int))(byte[] b, int off, int len)            See the general contract of the readFully method of DataInput. |
| void | **DataInput.**[**readFully**](http://docs.google.com/java/io/DataInput.html#readFully(byte%5B%5D,%20int,%20int))(byte[] b, int off, int len)            Reads len bytes from an input stream. |
| void | **ObjectInputStream.**[**readFully**](http://docs.google.com/java/io/ObjectInputStream.html#readFully(byte%5B%5D,%20int,%20int))(byte[] buf, int off, int len)            Reads bytes, blocking until all bytes are read. |
| int | **RandomAccessFile.**[**readInt**](http://docs.google.com/java/io/RandomAccessFile.html#readInt())()            Reads a signed 32-bit integer from this file. |
| int | **DataInputStream.**[**readInt**](http://docs.google.com/java/io/DataInputStream.html#readInt())()            See the general contract of the readInt method of DataInput. |
| int | **DataInput.**[**readInt**](http://docs.google.com/java/io/DataInput.html#readInt())()            Reads four input bytes and returns an int value. |
| int | **ObjectInputStream.**[**readInt**](http://docs.google.com/java/io/ObjectInputStream.html#readInt())()            Reads a 32 bit int. |
| [String](http://docs.google.com/java/lang/String.html) | **LineNumberReader.**[**readLine**](http://docs.google.com/java/io/LineNumberReader.html#readLine())()            Read a line of text. |
| [String](http://docs.google.com/java/lang/String.html) | **RandomAccessFile.**[**readLine**](http://docs.google.com/java/io/RandomAccessFile.html#readLine())()            Reads the next line of text from this file. |
| [String](http://docs.google.com/java/lang/String.html) | **BufferedReader.**[**readLine**](http://docs.google.com/java/io/BufferedReader.html#readLine())()            Reads a line of text. |
| [String](http://docs.google.com/java/lang/String.html) | **DataInputStream.**[**readLine**](http://docs.google.com/java/io/DataInputStream.html#readLine())()  **Deprecated.** *This method does not properly convert bytes to characters. As of JDK 1.1, the preferred way to read lines of text is via the BufferedReader.readLine() method. Programs that use the DataInputStream class to read lines can be converted to use the BufferedReader class by replacing code of the form:*  *DataInputStream d = new DataInputStream(in);*  *with:*  *BufferedReader d  = new BufferedReader(new InputStreamReader(in));* |
| [String](http://docs.google.com/java/lang/String.html) | **DataInput.**[**readLine**](http://docs.google.com/java/io/DataInput.html#readLine())()            Reads the next line of text from the input stream. |
| [String](http://docs.google.com/java/lang/String.html) | **ObjectInputStream.**[**readLine**](http://docs.google.com/java/io/ObjectInputStream.html#readLine())()  **Deprecated.** *This method does not properly convert bytes to characters. see DataInputStream for the details and alternatives.* |
| long | **RandomAccessFile.**[**readLong**](http://docs.google.com/java/io/RandomAccessFile.html#readLong())()            Reads a signed 64-bit integer from this file. |
| long | **DataInputStream.**[**readLong**](http://docs.google.com/java/io/DataInputStream.html#readLong())()            See the general contract of the readLong method of DataInput. |
| long | **DataInput.**[**readLong**](http://docs.google.com/java/io/DataInput.html#readLong())()            Reads eight input bytes and returns a long value. |
| long | **ObjectInputStream.**[**readLong**](http://docs.google.com/java/io/ObjectInputStream.html#readLong())()            Reads a 64 bit long. |
| [Object](http://docs.google.com/java/lang/Object.html) | **ObjectInput.**[**readObject**](http://docs.google.com/java/io/ObjectInput.html#readObject())()            Read and return an object. |
| [Object](http://docs.google.com/java/lang/Object.html) | **ObjectInputStream.**[**readObject**](http://docs.google.com/java/io/ObjectInputStream.html#readObject())()            Read an object from the ObjectInputStream. |
| protected  [Object](http://docs.google.com/java/lang/Object.html) | **ObjectInputStream.**[**readObjectOverride**](http://docs.google.com/java/io/ObjectInputStream.html#readObjectOverride())()            This method is called by trusted subclasses of ObjectOutputStream that constructed ObjectOutputStream using the protected no-arg constructor. |
| short | **RandomAccessFile.**[**readShort**](http://docs.google.com/java/io/RandomAccessFile.html#readShort())()            Reads a signed 16-bit number from this file. |
| short | **DataInputStream.**[**readShort**](http://docs.google.com/java/io/DataInputStream.html#readShort())()            See the general contract of the readShort method of DataInput. |
| short | **DataInput.**[**readShort**](http://docs.google.com/java/io/DataInput.html#readShort())()            Reads two input bytes and returns a short value. |
| short | **ObjectInputStream.**[**readShort**](http://docs.google.com/java/io/ObjectInputStream.html#readShort())()            Reads a 16 bit short. |
| protected  void | **ObjectInputStream.**[**readStreamHeader**](http://docs.google.com/java/io/ObjectInputStream.html#readStreamHeader())()            The readStreamHeader method is provided to allow subclasses to read and verify their own stream headers. |
| [Object](http://docs.google.com/java/lang/Object.html) | **ObjectInputStream.**[**readUnshared**](http://docs.google.com/java/io/ObjectInputStream.html#readUnshared())()            Reads an "unshared" object from the ObjectInputStream. |
| int | **RandomAccessFile.**[**readUnsignedByte**](http://docs.google.com/java/io/RandomAccessFile.html#readUnsignedByte())()            Reads an unsigned eight-bit number from this file. |
| int | **DataInputStream.**[**readUnsignedByte**](http://docs.google.com/java/io/DataInputStream.html#readUnsignedByte())()            See the general contract of the readUnsignedByte method of DataInput. |
| int | **DataInput.**[**readUnsignedByte**](http://docs.google.com/java/io/DataInput.html#readUnsignedByte())()            Reads one input byte, zero-extends it to type int, and returns the result, which is therefore in the range 0 through 255. |
| int | **ObjectInputStream.**[**readUnsignedByte**](http://docs.google.com/java/io/ObjectInputStream.html#readUnsignedByte())()            Reads an unsigned 8 bit byte. |
| int | **RandomAccessFile.**[**readUnsignedShort**](http://docs.google.com/java/io/RandomAccessFile.html#readUnsignedShort())()            Reads an unsigned 16-bit number from this file. |
| int | **DataInputStream.**[**readUnsignedShort**](http://docs.google.com/java/io/DataInputStream.html#readUnsignedShort())()            See the general contract of the readUnsignedShort method of DataInput. |
| int | **DataInput.**[**readUnsignedShort**](http://docs.google.com/java/io/DataInput.html#readUnsignedShort())()            Reads two input bytes and returns an int value in the range 0 through 65535. |
| int | **ObjectInputStream.**[**readUnsignedShort**](http://docs.google.com/java/io/ObjectInputStream.html#readUnsignedShort())()            Reads an unsigned 16 bit short. |
| [String](http://docs.google.com/java/lang/String.html) | **RandomAccessFile.**[**readUTF**](http://docs.google.com/java/io/RandomAccessFile.html#readUTF())()            Reads in a string from this file. |
| [String](http://docs.google.com/java/lang/String.html) | **DataInputStream.**[**readUTF**](http://docs.google.com/java/io/DataInputStream.html#readUTF())()            See the general contract of the readUTF method of DataInput. |
| [String](http://docs.google.com/java/lang/String.html) | **DataInput.**[**readUTF**](http://docs.google.com/java/io/DataInput.html#readUTF())()            Reads in a string that has been encoded using a [modified UTF-8](http://docs.google.com/java/io/#modified-utf-8) format. |
| [String](http://docs.google.com/java/lang/String.html) | **ObjectInputStream.**[**readUTF**](http://docs.google.com/java/io/ObjectInputStream.html#readUTF())()            Reads a String in [modified UTF-8](http://docs.google.com/java/io/DataInput.html#modified-utf-8) format. |
| static [String](http://docs.google.com/java/lang/String.html) | **DataInputStream.**[**readUTF**](http://docs.google.com/java/io/DataInputStream.html#readUTF(java.io.DataInput))([DataInput](http://docs.google.com/java/io/DataInput.html) in)            Reads from the stream in a representation of a Unicode character string encoded in [modified UTF-8](http://docs.google.com/java/io/DataInput.html#modified-utf-8) format; this string of characters is then returned as a String. |
| boolean | **StringReader.**[**ready**](http://docs.google.com/java/io/StringReader.html#ready())()            Tells whether this stream is ready to be read. |
| boolean | **PipedReader.**[**ready**](http://docs.google.com/java/io/PipedReader.html#ready())()            Tell whether this stream is ready to be read. |
| boolean | **InputStreamReader.**[**ready**](http://docs.google.com/java/io/InputStreamReader.html#ready())()            Tells whether this stream is ready to be read. |
| boolean | **PushbackReader.**[**ready**](http://docs.google.com/java/io/PushbackReader.html#ready())()            Tells whether this stream is ready to be read. |
| boolean | **FilterReader.**[**ready**](http://docs.google.com/java/io/FilterReader.html#ready())()            Tells whether this stream is ready to be read. |
| boolean | **CharArrayReader.**[**ready**](http://docs.google.com/java/io/CharArrayReader.html#ready())()            Tells whether this stream is ready to be read. |
| boolean | **BufferedReader.**[**ready**](http://docs.google.com/java/io/BufferedReader.html#ready())()            Tells whether this stream is ready to be read. |
| boolean | **Reader.**[**ready**](http://docs.google.com/java/io/Reader.html#ready())()            Tells whether this stream is ready to be read. |
| protected  void | **PipedInputStream.**[**receive**](http://docs.google.com/java/io/PipedInputStream.html#receive(int))(int b)            Receives a byte of data. |
| protected  [Object](http://docs.google.com/java/lang/Object.html) | **ObjectOutputStream.**[**replaceObject**](http://docs.google.com/java/io/ObjectOutputStream.html#replaceObject(java.lang.Object))([Object](http://docs.google.com/java/lang/Object.html) obj)            This method will allow trusted subclasses of ObjectOutputStream to substitute one object for another during serialization. |
| void | **StringReader.**[**reset**](http://docs.google.com/java/io/StringReader.html#reset())()            Resets the stream to the most recent mark, or to the beginning of the string if it has never been marked. |
| void | **PushbackReader.**[**reset**](http://docs.google.com/java/io/PushbackReader.html#reset())()            Resets the stream. |
| void | **FilterReader.**[**reset**](http://docs.google.com/java/io/FilterReader.html#reset())()            Resets the stream. |
| void | **CharArrayReader.**[**reset**](http://docs.google.com/java/io/CharArrayReader.html#reset())()            Resets the stream to the most recent mark, or to the beginning if it has never been marked. |
| void | **LineNumberReader.**[**reset**](http://docs.google.com/java/io/LineNumberReader.html#reset())()            Reset the stream to the most recent mark. |
| void | **LineNumberInputStream.**[**reset**](http://docs.google.com/java/io/LineNumberInputStream.html#reset())()  **Deprecated.** Repositions this stream to the position at the time the mark method was last called on this input stream. |
| void | **PushbackInputStream.**[**reset**](http://docs.google.com/java/io/PushbackInputStream.html#reset())()            Repositions this stream to the position at the time the mark method was last called on this input stream. |
| void | **BufferedInputStream.**[**reset**](http://docs.google.com/java/io/BufferedInputStream.html#reset())()            See the general contract of the reset method of InputStream. |
| void | **BufferedReader.**[**reset**](http://docs.google.com/java/io/BufferedReader.html#reset())()            Resets the stream to the most recent mark. |
| void | **Reader.**[**reset**](http://docs.google.com/java/io/Reader.html#reset())()            Resets the stream. |
| void | **FilterInputStream.**[**reset**](http://docs.google.com/java/io/FilterInputStream.html#reset())()            Repositions this stream to the position at the time the mark method was last called on this input stream. |
| void | **ObjectOutputStream.**[**reset**](http://docs.google.com/java/io/ObjectOutputStream.html#reset())()            Reset will disregard the state of any objects already written to the stream. |
| void | **InputStream.**[**reset**](http://docs.google.com/java/io/InputStream.html#reset())()            Repositions this stream to the position at the time the mark method was last called on this input stream. |
| protected  [Class](http://docs.google.com/java/lang/Class.html)<?> | **ObjectInputStream.**[**resolveClass**](http://docs.google.com/java/io/ObjectInputStream.html#resolveClass(java.io.ObjectStreamClass))([ObjectStreamClass](http://docs.google.com/java/io/ObjectStreamClass.html) desc)            Load the local class equivalent of the specified stream class description. |
| protected  [Object](http://docs.google.com/java/lang/Object.html) | **ObjectInputStream.**[**resolveObject**](http://docs.google.com/java/io/ObjectInputStream.html#resolveObject(java.lang.Object))([Object](http://docs.google.com/java/lang/Object.html) obj)            This method will allow trusted subclasses of ObjectInputStream to substitute one object for another during deserialization. |
| protected  [Class](http://docs.google.com/java/lang/Class.html)<?> | **ObjectInputStream.**[**resolveProxyClass**](http://docs.google.com/java/io/ObjectInputStream.html#resolveProxyClass(java.lang.String%5B%5D))([String](http://docs.google.com/java/lang/String.html)[] interfaces)            Returns a proxy class that implements the interfaces named in a proxy class descriptor; subclasses may implement this method to read custom data from the stream along with the descriptors for dynamic proxy classes, allowing them to use an alternate loading mechanism for the interfaces and the proxy class. |
| void | **RandomAccessFile.**[**seek**](http://docs.google.com/java/io/RandomAccessFile.html#seek(long))(long pos)            Sets the file-pointer offset, measured from the beginning of this file, at which the next read or write occurs. |
| void | **RandomAccessFile.**[**setLength**](http://docs.google.com/java/io/RandomAccessFile.html#setLength(long))(long newLength)            Sets the length of this file. |
| long | **StringReader.**[**skip**](http://docs.google.com/java/io/StringReader.html#skip(long))(long ns)            Skips the specified number of characters in the stream. |
| long | **PushbackReader.**[**skip**](http://docs.google.com/java/io/PushbackReader.html#skip(long))(long n)            Skips characters. |
| long | **FilterReader.**[**skip**](http://docs.google.com/java/io/FilterReader.html#skip(long))(long n)            Skips characters. |
| long | **CharArrayReader.**[**skip**](http://docs.google.com/java/io/CharArrayReader.html#skip(long))(long n)            Skips characters. |
| long | **LineNumberReader.**[**skip**](http://docs.google.com/java/io/LineNumberReader.html#skip(long))(long n)            Skip characters. |
| long | **LineNumberInputStream.**[**skip**](http://docs.google.com/java/io/LineNumberInputStream.html#skip(long))(long n)  **Deprecated.** Skips over and discards n bytes of data from this input stream. |
| long | **PushbackInputStream.**[**skip**](http://docs.google.com/java/io/PushbackInputStream.html#skip(long))(long n)            Skips over and discards n bytes of data from this input stream. |
| long | **BufferedInputStream.**[**skip**](http://docs.google.com/java/io/BufferedInputStream.html#skip(long))(long n)            See the general contract of the skip method of InputStream. |
| long | **FileInputStream.**[**skip**](http://docs.google.com/java/io/FileInputStream.html#skip(long))(long n)            Skips over and discards n bytes of data from the input stream. |
| long | **BufferedReader.**[**skip**](http://docs.google.com/java/io/BufferedReader.html#skip(long))(long n)            Skips characters. |
| long | **Reader.**[**skip**](http://docs.google.com/java/io/Reader.html#skip(long))(long n)            Skips characters. |
| long | **ObjectInput.**[**skip**](http://docs.google.com/java/io/ObjectInput.html#skip(long))(long n)            Skips n bytes of input. |
| long | **FilterInputStream.**[**skip**](http://docs.google.com/java/io/FilterInputStream.html#skip(long))(long n)            Skips over and discards n bytes of data from this input stream. |
| long | **InputStream.**[**skip**](http://docs.google.com/java/io/InputStream.html#skip(long))(long n)            Skips over and discards n bytes of data from this input stream. |
| int | **RandomAccessFile.**[**skipBytes**](http://docs.google.com/java/io/RandomAccessFile.html#skipBytes(int))(int n)            Attempts to skip over n bytes of input discarding the skipped bytes. |
| int | **DataInputStream.**[**skipBytes**](http://docs.google.com/java/io/DataInputStream.html#skipBytes(int))(int n)            See the general contract of the skipBytes method of DataInput. |
| int | **DataInput.**[**skipBytes**](http://docs.google.com/java/io/DataInput.html#skipBytes(int))(int n)            Makes an attempt to skip over n bytes of data from the input stream, discarding the skipped bytes. |
| int | **ObjectInputStream.**[**skipBytes**](http://docs.google.com/java/io/ObjectInputStream.html#skipBytes(int))(int len)            Skips bytes. |
| void | **PushbackInputStream.**[**unread**](http://docs.google.com/java/io/PushbackInputStream.html#unread(byte%5B%5D))(byte[] b)            Pushes back an array of bytes by copying it to the front of the pushback buffer. |
| void | **PushbackInputStream.**[**unread**](http://docs.google.com/java/io/PushbackInputStream.html#unread(byte%5B%5D,%20int,%20int))(byte[] b, int off, int len)            Pushes back a portion of an array of bytes by copying it to the front of the pushback buffer. |
| void | **PushbackReader.**[**unread**](http://docs.google.com/java/io/PushbackReader.html#unread(char%5B%5D))(char[] cbuf)            Pushes back an array of characters by copying it to the front of the pushback buffer. |
| void | **PushbackReader.**[**unread**](http://docs.google.com/java/io/PushbackReader.html#unread(char%5B%5D,%20int,%20int))(char[] cbuf, int off, int len)            Pushes back a portion of an array of characters by copying it to the front of the pushback buffer. |
| void | **PushbackReader.**[**unread**](http://docs.google.com/java/io/PushbackReader.html#unread(int))(int c)            Pushes back a single character by copying it to the front of the pushback buffer. |
| void | **PushbackInputStream.**[**unread**](http://docs.google.com/java/io/PushbackInputStream.html#unread(int))(int b)            Pushes back a byte by copying it to the front of the pushback buffer. |
| void | **ObjectOutputStream.**[**useProtocolVersion**](http://docs.google.com/java/io/ObjectOutputStream.html#useProtocolVersion(int))(int version)            Specify stream protocol version to use when writing the stream. |
| void | **RandomAccessFile.**[**write**](http://docs.google.com/java/io/RandomAccessFile.html#write(byte%5B%5D))(byte[] b)            Writes b.length bytes from the specified byte array to this file, starting at the current file pointer. |
| void | **FileOutputStream.**[**write**](http://docs.google.com/java/io/FileOutputStream.html#write(byte%5B%5D))(byte[] b)            Writes b.length bytes from the specified byte array to this file output stream. |
| void | **DataOutput.**[**write**](http://docs.google.com/java/io/DataOutput.html#write(byte%5B%5D))(byte[] b)            Writes to the output stream all the bytes in array b. |
| void | **ObjectOutput.**[**write**](http://docs.google.com/java/io/ObjectOutput.html#write(byte%5B%5D))(byte[] b)            Writes an array of bytes. |
| void | **ObjectOutputStream.**[**write**](http://docs.google.com/java/io/ObjectOutputStream.html#write(byte%5B%5D))(byte[] buf)            Writes an array of bytes. |
| void | **OutputStream.**[**write**](http://docs.google.com/java/io/OutputStream.html#write(byte%5B%5D))(byte[] b)            Writes b.length bytes from the specified byte array to this output stream. |
| void | **FilterOutputStream.**[**write**](http://docs.google.com/java/io/FilterOutputStream.html#write(byte%5B%5D))(byte[] b)            Writes b.length bytes to this output stream. |
| void | **RandomAccessFile.**[**write**](http://docs.google.com/java/io/RandomAccessFile.html#write(byte%5B%5D,%20int,%20int))(byte[] b, int off, int len)            Writes len bytes from the specified byte array starting at offset off to this file. |
| void | **BufferedOutputStream.**[**write**](http://docs.google.com/java/io/BufferedOutputStream.html#write(byte%5B%5D,%20int,%20int))(byte[] b, int off, int len)            Writes len bytes from the specified byte array starting at offset off to this buffered output stream. |
| void | **FileOutputStream.**[**write**](http://docs.google.com/java/io/FileOutputStream.html#write(byte%5B%5D,%20int,%20int))(byte[] b, int off, int len)            Writes len bytes from the specified byte array starting at offset off to this file output stream. |
| void | **PipedOutputStream.**[**write**](http://docs.google.com/java/io/PipedOutputStream.html#write(byte%5B%5D,%20int,%20int))(byte[] b, int off, int len)            Writes len bytes from the specified byte array starting at offset off to this piped output stream. |
| void | **DataOutputStream.**[**write**](http://docs.google.com/java/io/DataOutputStream.html#write(byte%5B%5D,%20int,%20int))(byte[] b, int off, int len)            Writes len bytes from the specified byte array starting at offset off to the underlying output stream. |
| void | **DataOutput.**[**write**](http://docs.google.com/java/io/DataOutput.html#write(byte%5B%5D,%20int,%20int))(byte[] b, int off, int len)            Writes len bytes from array b, in order, to the output stream. |
| void | **ObjectOutput.**[**write**](http://docs.google.com/java/io/ObjectOutput.html#write(byte%5B%5D,%20int,%20int))(byte[] b, int off, int len)            Writes a sub array of bytes. |
| void | **ObjectOutputStream.**[**write**](http://docs.google.com/java/io/ObjectOutputStream.html#write(byte%5B%5D,%20int,%20int))(byte[] buf, int off, int len)            Writes a sub array of bytes. |
| void | **OutputStream.**[**write**](http://docs.google.com/java/io/OutputStream.html#write(byte%5B%5D,%20int,%20int))(byte[] b, int off, int len)            Writes len bytes from the specified byte array starting at offset off to this output stream. |
| void | **FilterOutputStream.**[**write**](http://docs.google.com/java/io/FilterOutputStream.html#write(byte%5B%5D,%20int,%20int))(byte[] b, int off, int len)            Writes len bytes from the specified byte array starting at offset off to this output stream. |
| void | **Writer.**[**write**](http://docs.google.com/java/io/Writer.html#write(char%5B%5D))(char[] cbuf)            Writes an array of characters. |
| void | **FilterWriter.**[**write**](http://docs.google.com/java/io/FilterWriter.html#write(char%5B%5D,%20int,%20int))(char[] cbuf, int off, int len)            Writes a portion of an array of characters. |
| void | **PipedWriter.**[**write**](http://docs.google.com/java/io/PipedWriter.html#write(char%5B%5D,%20int,%20int))(char[] cbuf, int off, int len)            Writes len characters from the specified character array starting at offset off to this piped output stream. |
| void | **OutputStreamWriter.**[**write**](http://docs.google.com/java/io/OutputStreamWriter.html#write(char%5B%5D,%20int,%20int))(char[] cbuf, int off, int len)            Writes a portion of an array of characters. |
| void | **BufferedWriter.**[**write**](http://docs.google.com/java/io/BufferedWriter.html#write(char%5B%5D,%20int,%20int))(char[] cbuf, int off, int len)            Writes a portion of an array of characters. |
| abstract  void | **Writer.**[**write**](http://docs.google.com/java/io/Writer.html#write(char%5B%5D,%20int,%20int))(char[] cbuf, int off, int len)            Writes a portion of an array of characters. |
| void | **FilterWriter.**[**write**](http://docs.google.com/java/io/FilterWriter.html#write(int))(int c)            Writes a single character. |
| void | **PipedWriter.**[**write**](http://docs.google.com/java/io/PipedWriter.html#write(int))(int c)            Writes the specified char to the piped output stream. |
| void | **RandomAccessFile.**[**write**](http://docs.google.com/java/io/RandomAccessFile.html#write(int))(int b)            Writes the specified byte to this file. |
| void | **BufferedOutputStream.**[**write**](http://docs.google.com/java/io/BufferedOutputStream.html#write(int))(int b)            Writes the specified byte to this buffered output stream. |
| void | **FileOutputStream.**[**write**](http://docs.google.com/java/io/FileOutputStream.html#write(int))(int b)            Writes the specified byte to this file output stream. |
| void | **PipedOutputStream.**[**write**](http://docs.google.com/java/io/PipedOutputStream.html#write(int))(int b)            Writes the specified byte to the piped output stream. |
| void | **OutputStreamWriter.**[**write**](http://docs.google.com/java/io/OutputStreamWriter.html#write(int))(int c)            Writes a single character. |
| void | **BufferedWriter.**[**write**](http://docs.google.com/java/io/BufferedWriter.html#write(int))(int c)            Writes a single character. |
| void | **DataOutputStream.**[**write**](http://docs.google.com/java/io/DataOutputStream.html#write(int))(int b)            Writes the specified byte (the low eight bits of the argument b) to the underlying output stream. |
| void | **DataOutput.**[**write**](http://docs.google.com/java/io/DataOutput.html#write(int))(int b)            Writes to the output stream the eight low-order bits of the argument b. |
| void | **ObjectOutput.**[**write**](http://docs.google.com/java/io/ObjectOutput.html#write(int))(int b)            Writes a byte. |
| void | **ObjectOutputStream.**[**write**](http://docs.google.com/java/io/ObjectOutputStream.html#write(int))(int val)            Writes a byte. |
| void | **Writer.**[**write**](http://docs.google.com/java/io/Writer.html#write(int))(int c)            Writes a single character. |
| abstract  void | **OutputStream.**[**write**](http://docs.google.com/java/io/OutputStream.html#write(int))(int b)            Writes the specified byte to this output stream. |
| void | **FilterOutputStream.**[**write**](http://docs.google.com/java/io/FilterOutputStream.html#write(int))(int b)            Writes the specified byte to this output stream. |
| abstract  void | **ObjectOutputStream.PutField.**[**write**](http://docs.google.com/java/io/ObjectOutputStream.PutField.html#write(java.io.ObjectOutput))([ObjectOutput](http://docs.google.com/java/io/ObjectOutput.html) out)  **Deprecated.** *This method does not write the values contained by this PutField object in a proper format, and may result in corruption of the serialization stream. The correct way to write PutField data is by calling the* [*ObjectOutputStream.writeFields()*](http://docs.google.com/java/io/ObjectOutputStream.html#writeFields()) *method.* |
| void | **Writer.**[**write**](http://docs.google.com/java/io/Writer.html#write(java.lang.String))([String](http://docs.google.com/java/lang/String.html) str)            Writes a string. |
| void | **FilterWriter.**[**write**](http://docs.google.com/java/io/FilterWriter.html#write(java.lang.String,%20int,%20int))([String](http://docs.google.com/java/lang/String.html) str, int off, int len)            Writes a portion of a string. |
| void | **OutputStreamWriter.**[**write**](http://docs.google.com/java/io/OutputStreamWriter.html#write(java.lang.String,%20int,%20int))([String](http://docs.google.com/java/lang/String.html) str, int off, int len)            Writes a portion of a string. |
| void | **BufferedWriter.**[**write**](http://docs.google.com/java/io/BufferedWriter.html#write(java.lang.String,%20int,%20int))([String](http://docs.google.com/java/lang/String.html) s, int off, int len)            Writes a portion of a String. |
| void | **Writer.**[**write**](http://docs.google.com/java/io/Writer.html#write(java.lang.String,%20int,%20int))([String](http://docs.google.com/java/lang/String.html) str, int off, int len)            Writes a portion of a string. |
| void | **RandomAccessFile.**[**writeBoolean**](http://docs.google.com/java/io/RandomAccessFile.html#writeBoolean(boolean))(boolean v)            Writes a boolean to the file as a one-byte value. |
| void | **DataOutputStream.**[**writeBoolean**](http://docs.google.com/java/io/DataOutputStream.html#writeBoolean(boolean))(boolean v)            Writes a boolean to the underlying output stream as a 1-byte value. |
| void | **DataOutput.**[**writeBoolean**](http://docs.google.com/java/io/DataOutput.html#writeBoolean(boolean))(boolean v)            Writes a boolean value to this output stream. |
| void | **ObjectOutputStream.**[**writeBoolean**](http://docs.google.com/java/io/ObjectOutputStream.html#writeBoolean(boolean))(boolean val)            Writes a boolean. |
| void | **RandomAccessFile.**[**writeByte**](http://docs.google.com/java/io/RandomAccessFile.html#writeByte(int))(int v)            Writes a byte to the file as a one-byte value. |
| void | **DataOutputStream.**[**writeByte**](http://docs.google.com/java/io/DataOutputStream.html#writeByte(int))(int v)            Writes out a byte to the underlying output stream as a 1-byte value. |
| void | **DataOutput.**[**writeByte**](http://docs.google.com/java/io/DataOutput.html#writeByte(int))(int v)            Writes to the output stream the eight low- order bits of the argument v. |
| void | **ObjectOutputStream.**[**writeByte**](http://docs.google.com/java/io/ObjectOutputStream.html#writeByte(int))(int val)            Writes an 8 bit byte. |
| void | **RandomAccessFile.**[**writeBytes**](http://docs.google.com/java/io/RandomAccessFile.html#writeBytes(java.lang.String))([String](http://docs.google.com/java/lang/String.html) s)            Writes the string to the file as a sequence of bytes. |
| void | **DataOutputStream.**[**writeBytes**](http://docs.google.com/java/io/DataOutputStream.html#writeBytes(java.lang.String))([String](http://docs.google.com/java/lang/String.html) s)            Writes out the string to the underlying output stream as a sequence of bytes. |
| void | **DataOutput.**[**writeBytes**](http://docs.google.com/java/io/DataOutput.html#writeBytes(java.lang.String))([String](http://docs.google.com/java/lang/String.html) s)            Writes a string to the output stream. |
| void | **ObjectOutputStream.**[**writeBytes**](http://docs.google.com/java/io/ObjectOutputStream.html#writeBytes(java.lang.String))([String](http://docs.google.com/java/lang/String.html) str)            Writes a String as a sequence of bytes. |
| void | **RandomAccessFile.**[**writeChar**](http://docs.google.com/java/io/RandomAccessFile.html#writeChar(int))(int v)            Writes a char to the file as a two-byte value, high byte first. |
| void | **DataOutputStream.**[**writeChar**](http://docs.google.com/java/io/DataOutputStream.html#writeChar(int))(int v)            Writes a char to the underlying output stream as a 2-byte value, high byte first. |
| void | **DataOutput.**[**writeChar**](http://docs.google.com/java/io/DataOutput.html#writeChar(int))(int v)            Writes a char value, which is comprised of two bytes, to the output stream. |
| void | **ObjectOutputStream.**[**writeChar**](http://docs.google.com/java/io/ObjectOutputStream.html#writeChar(int))(int val)            Writes a 16 bit char. |
| void | **RandomAccessFile.**[**writeChars**](http://docs.google.com/java/io/RandomAccessFile.html#writeChars(java.lang.String))([String](http://docs.google.com/java/lang/String.html) s)            Writes a string to the file as a sequence of characters. |
| void | **DataOutputStream.**[**writeChars**](http://docs.google.com/java/io/DataOutputStream.html#writeChars(java.lang.String))([String](http://docs.google.com/java/lang/String.html) s)            Writes a string to the underlying output stream as a sequence of characters. |
| void | **DataOutput.**[**writeChars**](http://docs.google.com/java/io/DataOutput.html#writeChars(java.lang.String))([String](http://docs.google.com/java/lang/String.html) s)            Writes every character in the string s, to the output stream, in order, two bytes per character. |
| void | **ObjectOutputStream.**[**writeChars**](http://docs.google.com/java/io/ObjectOutputStream.html#writeChars(java.lang.String))([String](http://docs.google.com/java/lang/String.html) str)            Writes a String as a sequence of chars. |
| protected  void | **ObjectOutputStream.**[**writeClassDescriptor**](http://docs.google.com/java/io/ObjectOutputStream.html#writeClassDescriptor(java.io.ObjectStreamClass))([ObjectStreamClass](http://docs.google.com/java/io/ObjectStreamClass.html) desc)            Write the specified class descriptor to the ObjectOutputStream. |
| void | **RandomAccessFile.**[**writeDouble**](http://docs.google.com/java/io/RandomAccessFile.html#writeDouble(double))(double v)            Converts the double argument to a long using the doubleToLongBits method in class Double, and then writes that long value to the file as an eight-byte quantity, high byte first. |
| void | **DataOutputStream.**[**writeDouble**](http://docs.google.com/java/io/DataOutputStream.html#writeDouble(double))(double v)            Converts the double argument to a long using the doubleToLongBits method in class Double, and then writes that long value to the underlying output stream as an 8-byte quantity, high byte first. |
| void | **DataOutput.**[**writeDouble**](http://docs.google.com/java/io/DataOutput.html#writeDouble(double))(double v)            Writes a double value, which is comprised of eight bytes, to the output stream. |
| void | **ObjectOutputStream.**[**writeDouble**](http://docs.google.com/java/io/ObjectOutputStream.html#writeDouble(double))(double val)            Writes a 64 bit double. |
| void | **Externalizable.**[**writeExternal**](http://docs.google.com/java/io/Externalizable.html#writeExternal(java.io.ObjectOutput))([ObjectOutput](http://docs.google.com/java/io/ObjectOutput.html) out)            The object implements the writeExternal method to save its contents by calling the methods of DataOutput for its primitive values or calling the writeObject method of ObjectOutput for objects, strings, and arrays. |
| void | **ObjectOutputStream.**[**writeFields**](http://docs.google.com/java/io/ObjectOutputStream.html#writeFields())()            Write the buffered fields to the stream. |
| void | **RandomAccessFile.**[**writeFloat**](http://docs.google.com/java/io/RandomAccessFile.html#writeFloat(float))(float v)            Converts the float argument to an int using the floatToIntBits method in class Float, and then writes that int value to the file as a four-byte quantity, high byte first. |
| void | **DataOutputStream.**[**writeFloat**](http://docs.google.com/java/io/DataOutputStream.html#writeFloat(float))(float v)            Converts the float argument to an int using the floatToIntBits method in class Float, and then writes that int value to the underlying output stream as a 4-byte quantity, high byte first. |
| void | **DataOutput.**[**writeFloat**](http://docs.google.com/java/io/DataOutput.html#writeFloat(float))(float v)            Writes a float value, which is comprised of four bytes, to the output stream. |
| void | **ObjectOutputStream.**[**writeFloat**](http://docs.google.com/java/io/ObjectOutputStream.html#writeFloat(float))(float val)            Writes a 32 bit float. |
| void | **RandomAccessFile.**[**writeInt**](http://docs.google.com/java/io/RandomAccessFile.html#writeInt(int))(int v)            Writes an int to the file as four bytes, high byte first. |
| void | **DataOutputStream.**[**writeInt**](http://docs.google.com/java/io/DataOutputStream.html#writeInt(int))(int v)            Writes an int to the underlying output stream as four bytes, high byte first. |
| void | **DataOutput.**[**writeInt**](http://docs.google.com/java/io/DataOutput.html#writeInt(int))(int v)            Writes an int value, which is comprised of four bytes, to the output stream. |
| void | **ObjectOutputStream.**[**writeInt**](http://docs.google.com/java/io/ObjectOutputStream.html#writeInt(int))(int val)            Writes a 32 bit int. |
| void | **RandomAccessFile.**[**writeLong**](http://docs.google.com/java/io/RandomAccessFile.html#writeLong(long))(long v)            Writes a long to the file as eight bytes, high byte first. |
| void | **DataOutputStream.**[**writeLong**](http://docs.google.com/java/io/DataOutputStream.html#writeLong(long))(long v)            Writes a long to the underlying output stream as eight bytes, high byte first. |
| void | **DataOutput.**[**writeLong**](http://docs.google.com/java/io/DataOutput.html#writeLong(long))(long v)            Writes a long value, which is comprised of eight bytes, to the output stream. |
| void | **ObjectOutputStream.**[**writeLong**](http://docs.google.com/java/io/ObjectOutputStream.html#writeLong(long))(long val)            Writes a 64 bit long. |
| void | **ObjectOutput.**[**writeObject**](http://docs.google.com/java/io/ObjectOutput.html#writeObject(java.lang.Object))([Object](http://docs.google.com/java/lang/Object.html) obj)            Write an object to the underlying storage or stream. |
| void | **ObjectOutputStream.**[**writeObject**](http://docs.google.com/java/io/ObjectOutputStream.html#writeObject(java.lang.Object))([Object](http://docs.google.com/java/lang/Object.html) obj)            Write the specified object to the ObjectOutputStream. |
| protected  void | **ObjectOutputStream.**[**writeObjectOverride**](http://docs.google.com/java/io/ObjectOutputStream.html#writeObjectOverride(java.lang.Object))([Object](http://docs.google.com/java/lang/Object.html) obj)            Method used by subclasses to override the default writeObject method. |
| void | **RandomAccessFile.**[**writeShort**](http://docs.google.com/java/io/RandomAccessFile.html#writeShort(int))(int v)            Writes a short to the file as two bytes, high byte first. |
| void | **DataOutputStream.**[**writeShort**](http://docs.google.com/java/io/DataOutputStream.html#writeShort(int))(int v)            Writes a short to the underlying output stream as two bytes, high byte first. |
| void | **DataOutput.**[**writeShort**](http://docs.google.com/java/io/DataOutput.html#writeShort(int))(int v)            Writes two bytes to the output stream to represent the value of the argument. |
| void | **ObjectOutputStream.**[**writeShort**](http://docs.google.com/java/io/ObjectOutputStream.html#writeShort(int))(int val)            Writes a 16 bit short. |
| protected  void | **ObjectOutputStream.**[**writeStreamHeader**](http://docs.google.com/java/io/ObjectOutputStream.html#writeStreamHeader())()            The writeStreamHeader method is provided so subclasses can append or prepend their own header to the stream. |
| void | **ByteArrayOutputStream.**[**writeTo**](http://docs.google.com/java/io/ByteArrayOutputStream.html#writeTo(java.io.OutputStream))([OutputStream](http://docs.google.com/java/io/OutputStream.html) out)            Writes the complete contents of this byte array output stream to the specified output stream argument, as if by calling the output stream's write method using out.write(buf, 0, count). |
| void | **CharArrayWriter.**[**writeTo**](http://docs.google.com/java/io/CharArrayWriter.html#writeTo(java.io.Writer))([Writer](http://docs.google.com/java/io/Writer.html) out)            Writes the contents of the buffer to another character stream. |
| void | **ObjectOutputStream.**[**writeUnshared**](http://docs.google.com/java/io/ObjectOutputStream.html#writeUnshared(java.lang.Object))([Object](http://docs.google.com/java/lang/Object.html) obj)            Writes an "unshared" object to the ObjectOutputStream. |
| void | **RandomAccessFile.**[**writeUTF**](http://docs.google.com/java/io/RandomAccessFile.html#writeUTF(java.lang.String))([String](http://docs.google.com/java/lang/String.html) str)            Writes a string to the file using [modified UTF-8](http://docs.google.com/java/io/DataInput.html#modified-utf-8) encoding in a machine-independent manner. |
| void | **DataOutputStream.**[**writeUTF**](http://docs.google.com/java/io/DataOutputStream.html#writeUTF(java.lang.String))([String](http://docs.google.com/java/lang/String.html) str)            Writes a string to the underlying output stream using [modified UTF-8](http://docs.google.com/java/io/DataInput.html#modified-utf-8) encoding in a machine-independent manner. |
| void | **DataOutput.**[**writeUTF**](http://docs.google.com/java/io/DataOutput.html#writeUTF(java.lang.String))([String](http://docs.google.com/java/lang/String.html) s)            Writes two bytes of length information to the output stream, followed by the [modified UTF-8](http://docs.google.com/java/io/DataInput.html#modified-utf-8) representation of every character in the string s. |
| void | **ObjectOutputStream.**[**writeUTF**](http://docs.google.com/java/io/ObjectOutputStream.html#writeUTF(java.lang.String))([String](http://docs.google.com/java/lang/String.html) str)            Primitive data write of this String in [modified UTF-8](http://docs.google.com/java/io/DataInput.html#modified-utf-8) format. |

| Constructors in [java.io](http://docs.google.com/java/io/package-summary.html) that throw [IOException](http://docs.google.com/java/io/IOException.html) | |
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| [**FileWriter**](http://docs.google.com/java/io/FileWriter.html#FileWriter(java.io.File))([File](http://docs.google.com/java/io/File.html) file)            Constructs a FileWriter object given a File object. |
| [**FileWriter**](http://docs.google.com/java/io/FileWriter.html#FileWriter(java.io.File,%20boolean))([File](http://docs.google.com/java/io/File.html) file, boolean append)            Constructs a FileWriter object given a File object. |
| [**FileWriter**](http://docs.google.com/java/io/FileWriter.html#FileWriter(java.lang.String))([String](http://docs.google.com/java/lang/String.html) fileName)            Constructs a FileWriter object given a file name. |
| [**FileWriter**](http://docs.google.com/java/io/FileWriter.html#FileWriter(java.lang.String,%20boolean))([String](http://docs.google.com/java/lang/String.html) fileName, boolean append)            Constructs a FileWriter object given a file name with a boolean indicating whether or not to append the data written. |
| [**ObjectInputStream**](http://docs.google.com/java/io/ObjectInputStream.html#ObjectInputStream())()            Provide a way for subclasses that are completely reimplementing ObjectInputStream to not have to allocate private data just used by this implementation of ObjectInputStream. |
| [**ObjectInputStream**](http://docs.google.com/java/io/ObjectInputStream.html#ObjectInputStream(java.io.InputStream))([InputStream](http://docs.google.com/java/io/InputStream.html) in)            Creates an ObjectInputStream that reads from the specified InputStream. |
| [**ObjectOutputStream**](http://docs.google.com/java/io/ObjectOutputStream.html#ObjectOutputStream())()            Provide a way for subclasses that are completely reimplementing ObjectOutputStream to not have to allocate private data just used by this implementation of ObjectOutputStream. |
| [**ObjectOutputStream**](http://docs.google.com/java/io/ObjectOutputStream.html#ObjectOutputStream(java.io.OutputStream))([OutputStream](http://docs.google.com/java/io/OutputStream.html) out)            Creates an ObjectOutputStream that writes to the specified OutputStream. |
| [**PipedInputStream**](http://docs.google.com/java/io/PipedInputStream.html#PipedInputStream(java.io.PipedOutputStream))([PipedOutputStream](http://docs.google.com/java/io/PipedOutputStream.html) src)            Creates a PipedInputStream so that it is connected to the piped output stream src. |
| [**PipedInputStream**](http://docs.google.com/java/io/PipedInputStream.html#PipedInputStream(java.io.PipedOutputStream,%20int))([PipedOutputStream](http://docs.google.com/java/io/PipedOutputStream.html) src, int pipeSize)            Creates a PipedInputStream so that it is connected to the piped output stream src and uses the specified pipe size for the pipe's buffer. |
| [**PipedOutputStream**](http://docs.google.com/java/io/PipedOutputStream.html#PipedOutputStream(java.io.PipedInputStream))([PipedInputStream](http://docs.google.com/java/io/PipedInputStream.html) snk)            Creates a piped output stream connected to the specified piped input stream. |
| [**PipedReader**](http://docs.google.com/java/io/PipedReader.html#PipedReader(java.io.PipedWriter))([PipedWriter](http://docs.google.com/java/io/PipedWriter.html) src)            Creates a PipedReader so that it is connected to the piped writer src. |
| [**PipedReader**](http://docs.google.com/java/io/PipedReader.html#PipedReader(java.io.PipedWriter,%20int))([PipedWriter](http://docs.google.com/java/io/PipedWriter.html) src, int pipeSize)            Creates a PipedReader so that it is connected to the piped writer src and uses the specified pipe size for the pipe's buffer. |
| [**PipedWriter**](http://docs.google.com/java/io/PipedWriter.html#PipedWriter(java.io.PipedReader))([PipedReader](http://docs.google.com/java/io/PipedReader.html) snk)            Creates a piped writer connected to the specified piped reader. |

| Uses of [IOException](http://docs.google.com/java/io/IOException.html) in [java.lang](http://docs.google.com/java/lang/package-summary.html) | |
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| Methods in [java.lang](http://docs.google.com/java/lang/package-summary.html) that throw [IOException](http://docs.google.com/java/io/IOException.html) | |
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| [Appendable](http://docs.google.com/java/lang/Appendable.html) | **Appendable.**[**append**](http://docs.google.com/java/lang/Appendable.html#append(char))(char c)            Appends the specified character to this Appendable. |
| [Appendable](http://docs.google.com/java/lang/Appendable.html) | **Appendable.**[**append**](http://docs.google.com/java/lang/Appendable.html#append(java.lang.CharSequence))([CharSequence](http://docs.google.com/java/lang/CharSequence.html) csq)            Appends the specified character sequence to this Appendable. |
| [Appendable](http://docs.google.com/java/lang/Appendable.html) | **Appendable.**[**append**](http://docs.google.com/java/lang/Appendable.html#append(java.lang.CharSequence,%20int,%20int))([CharSequence](http://docs.google.com/java/lang/CharSequence.html) csq, int start, int end)            Appends a subsequence of the specified character sequence to this Appendable. |
| [Process](http://docs.google.com/java/lang/Process.html) | **Runtime.**[**exec**](http://docs.google.com/java/lang/Runtime.html#exec(java.lang.String))([String](http://docs.google.com/java/lang/String.html) command)            Executes the specified string command in a separate process. |
| [Process](http://docs.google.com/java/lang/Process.html) | **Runtime.**[**exec**](http://docs.google.com/java/lang/Runtime.html#exec(java.lang.String%5B%5D))([String](http://docs.google.com/java/lang/String.html)[] cmdarray)            Executes the specified command and arguments in a separate process. |
| [Process](http://docs.google.com/java/lang/Process.html) | **Runtime.**[**exec**](http://docs.google.com/java/lang/Runtime.html#exec(java.lang.String%5B%5D,%20java.lang.String%5B%5D))([String](http://docs.google.com/java/lang/String.html)[] cmdarray, [String](http://docs.google.com/java/lang/String.html)[] envp)            Executes the specified command and arguments in a separate process with the specified environment. |
| [Process](http://docs.google.com/java/lang/Process.html) | **Runtime.**[**exec**](http://docs.google.com/java/lang/Runtime.html#exec(java.lang.String%5B%5D,%20java.lang.String%5B%5D,%20java.io.File))([String](http://docs.google.com/java/lang/String.html)[] cmdarray, [String](http://docs.google.com/java/lang/String.html)[] envp, [File](http://docs.google.com/java/io/File.html) dir)            Executes the specified command and arguments in a separate process with the specified environment and working directory. |
| [Process](http://docs.google.com/java/lang/Process.html) | **Runtime.**[**exec**](http://docs.google.com/java/lang/Runtime.html#exec(java.lang.String,%20java.lang.String%5B%5D))([String](http://docs.google.com/java/lang/String.html) command, [String](http://docs.google.com/java/lang/String.html)[] envp)            Executes the specified string command in a separate process with the specified environment. |
| [Process](http://docs.google.com/java/lang/Process.html) | **Runtime.**[**exec**](http://docs.google.com/java/lang/Runtime.html#exec(java.lang.String,%20java.lang.String%5B%5D,%20java.io.File))([String](http://docs.google.com/java/lang/String.html) command, [String](http://docs.google.com/java/lang/String.html)[] envp, [File](http://docs.google.com/java/io/File.html) dir)            Executes the specified string command in a separate process with the specified environment and working directory. |
| protected  [Enumeration](http://docs.google.com/java/util/Enumeration.html)<[URL](http://docs.google.com/java/net/URL.html)> | **ClassLoader.**[**findResources**](http://docs.google.com/java/lang/ClassLoader.html#findResources(java.lang.String))([String](http://docs.google.com/java/lang/String.html) name)            Returns an enumeration of [URL](http://docs.google.com/java/net/URL.html) objects representing all the resources with the given name. |
| [Enumeration](http://docs.google.com/java/util/Enumeration.html)<[URL](http://docs.google.com/java/net/URL.html)> | **ClassLoader.**[**getResources**](http://docs.google.com/java/lang/ClassLoader.html#getResources(java.lang.String))([String](http://docs.google.com/java/lang/String.html) name)            Finds all the resources with the given name. |
| static [Enumeration](http://docs.google.com/java/util/Enumeration.html)<[URL](http://docs.google.com/java/net/URL.html)> | **ClassLoader.**[**getSystemResources**](http://docs.google.com/java/lang/ClassLoader.html#getSystemResources(java.lang.String))([String](http://docs.google.com/java/lang/String.html) name)            Finds all resources of the specified name from the search path used to load classes. |
| static [Channel](http://docs.google.com/java/nio/channels/Channel.html) | **System.**[**inheritedChannel**](http://docs.google.com/java/lang/System.html#inheritedChannel())()            Returns the channel inherited from the entity that created this Java virtual machine. |
| int | **Readable.**[**read**](http://docs.google.com/java/lang/Readable.html#read(java.nio.CharBuffer))([CharBuffer](http://docs.google.com/java/nio/CharBuffer.html) cb)            Attempts to read characters into the specified character buffer. |
| [Process](http://docs.google.com/java/lang/Process.html) | **ProcessBuilder.**[**start**](http://docs.google.com/java/lang/ProcessBuilder.html#start())()            Starts a new process using the attributes of this process builder. |

| Uses of [IOException](http://docs.google.com/java/io/IOException.html) in [java.lang.management](http://docs.google.com/java/lang/management/package-summary.html) | |
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| Methods in [java.lang.management](http://docs.google.com/java/lang/management/package-summary.html) that throw [IOException](http://docs.google.com/java/io/IOException.html) | |
| --- | --- |
| static   | <T> T | | --- | | **ManagementFactory.**[**newPlatformMXBeanProxy**](http://docs.google.com/java/lang/management/ManagementFactory.html#newPlatformMXBeanProxy(javax.management.MBeanServerConnection,%20java.lang.String,%20java.lang.Class))([MBeanServerConnection](http://docs.google.com/javax/management/MBeanServerConnection.html) connection, [String](http://docs.google.com/java/lang/String.html) mxbeanName, [Class](http://docs.google.com/java/lang/Class.html)<T> mxbeanInterface)            Returns a proxy for a platform MXBean interface of a given [MXBean name](http://docs.google.com/java/lang/management/#MXBeanNames) that forwards its method calls through the given MBeanServerConnection. |

| Uses of [IOException](http://docs.google.com/java/io/IOException.html) in [java.net](http://docs.google.com/java/net/package-summary.html) | |
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| Subclasses of [IOException](http://docs.google.com/java/io/IOException.html) in [java.net](http://docs.google.com/java/net/package-summary.html) | |
| --- | --- |
| class | [**BindException**](http://docs.google.com/java/net/BindException.html)            Signals that an error occurred while attempting to bind a socket to a local address and port. |
| class | [**HttpRetryException**](http://docs.google.com/java/net/HttpRetryException.html)            Thrown to indicate that a HTTP request needs to be retried but cannot be retried automatically, due to streaming mode being enabled. |
| class | [**MalformedURLException**](http://docs.google.com/java/net/MalformedURLException.html)            Thrown to indicate that a malformed URL has occurred. |
| class | [**NoRouteToHostException**](http://docs.google.com/java/net/NoRouteToHostException.html)            Signals that an error occurred while attempting to connect a socket to a remote address and port. |
| class | [**PortUnreachableException**](http://docs.google.com/java/net/PortUnreachableException.html)            Signals that an ICMP Port Unreachable message has been received on a connected datagram. |
| class | [**ProtocolException**](http://docs.google.com/java/net/ProtocolException.html)            Thrown to indicate that there is an error in the underlying protocol, such as a TCP error. |
| class | [**SocketException**](http://docs.google.com/java/net/SocketException.html)            Thrown to indicate that there is an error in the underlying protocol, such as a TCP error. |
| class | [**SocketTimeoutException**](http://docs.google.com/java/net/SocketTimeoutException.html)            Signals that a timeout has occurred on a socket read or accept. |
| class | [**UnknownHostException**](http://docs.google.com/java/net/UnknownHostException.html)            Thrown to indicate that the IP address of a host could not be determined. |
| class | [**UnknownServiceException**](http://docs.google.com/java/net/UnknownServiceException.html)            Thrown to indicate that an unknown service exception has occurred. |

| Methods in [java.net](http://docs.google.com/java/net/package-summary.html) with parameters of type [IOException](http://docs.google.com/java/io/IOException.html) | |
| --- | --- |
| abstract  void | **ProxySelector.**[**connectFailed**](http://docs.google.com/java/net/ProxySelector.html#connectFailed(java.net.URI,%20java.net.SocketAddress,%20java.io.IOException))([URI](http://docs.google.com/java/net/URI.html) uri, [SocketAddress](http://docs.google.com/java/net/SocketAddress.html) sa, [IOException](http://docs.google.com/java/io/IOException.html) ioe)            Called to indicate that a connection could not be established to a proxy/socks server. |

| Methods in [java.net](http://docs.google.com/java/net/package-summary.html) that throw [IOException](http://docs.google.com/java/io/IOException.html) | |
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| [Socket](http://docs.google.com/java/net/Socket.html) | **ServerSocket.**[**accept**](http://docs.google.com/java/net/ServerSocket.html#accept())()            Listens for a connection to be made to this socket and accepts it. |
| protected abstract  void | **SocketImpl.**[**accept**](http://docs.google.com/java/net/SocketImpl.html#accept(java.net.SocketImpl))([SocketImpl](http://docs.google.com/java/net/SocketImpl.html) s)            Accepts a connection. |
| protected abstract  int | **SocketImpl.**[**available**](http://docs.google.com/java/net/SocketImpl.html#available())()            Returns the number of bytes that can be read from this socket without blocking. |
| protected abstract  void | **SocketImpl.**[**bind**](http://docs.google.com/java/net/SocketImpl.html#bind(java.net.InetAddress,%20int))([InetAddress](http://docs.google.com/java/net/InetAddress.html) host, int port)            Binds this socket to the specified local IP address and port number. |
| void | **Socket.**[**bind**](http://docs.google.com/java/net/Socket.html#bind(java.net.SocketAddress))([SocketAddress](http://docs.google.com/java/net/SocketAddress.html) bindpoint)            Binds the socket to a local address. |
| void | **ServerSocket.**[**bind**](http://docs.google.com/java/net/ServerSocket.html#bind(java.net.SocketAddress))([SocketAddress](http://docs.google.com/java/net/SocketAddress.html) endpoint)            Binds the ServerSocket to a specific address (IP address and port number). |
| void | **ServerSocket.**[**bind**](http://docs.google.com/java/net/ServerSocket.html#bind(java.net.SocketAddress,%20int))([SocketAddress](http://docs.google.com/java/net/SocketAddress.html) endpoint, int backlog)            Binds the ServerSocket to a specific address (IP address and port number). |
| protected abstract  void | **SocketImpl.**[**close**](http://docs.google.com/java/net/SocketImpl.html#close())()            Closes this socket. |
| void | **Socket.**[**close**](http://docs.google.com/java/net/Socket.html#close())()            Closes this socket. |
| void | **ServerSocket.**[**close**](http://docs.google.com/java/net/ServerSocket.html#close())()            Closes this socket. |
| abstract  void | **URLConnection.**[**connect**](http://docs.google.com/java/net/URLConnection.html#connect())()            Opens a communications link to the resource referenced by this URL, if such a connection has not already been established. |
| protected abstract  void | **SocketImpl.**[**connect**](http://docs.google.com/java/net/SocketImpl.html#connect(java.net.InetAddress,%20int))([InetAddress](http://docs.google.com/java/net/InetAddress.html) address, int port)            Connects this socket to the specified port number on the specified host. |
| void | **Socket.**[**connect**](http://docs.google.com/java/net/Socket.html#connect(java.net.SocketAddress))([SocketAddress](http://docs.google.com/java/net/SocketAddress.html) endpoint)            Connects this socket to the server. |
| protected abstract  void | **SocketImpl.**[**connect**](http://docs.google.com/java/net/SocketImpl.html#connect(java.net.SocketAddress,%20int))([SocketAddress](http://docs.google.com/java/net/SocketAddress.html) address, int timeout)            Connects this socket to the specified port number on the specified host. |
| void | **Socket.**[**connect**](http://docs.google.com/java/net/Socket.html#connect(java.net.SocketAddress,%20int))([SocketAddress](http://docs.google.com/java/net/SocketAddress.html) endpoint, int timeout)            Connects this socket to the server with a specified timeout value. |
| protected abstract  void | **SocketImpl.**[**connect**](http://docs.google.com/java/net/SocketImpl.html#connect(java.lang.String,%20int))([String](http://docs.google.com/java/lang/String.html) host, int port)            Connects this socket to the specified port on the named host. |
| protected abstract  void | **SocketImpl.**[**create**](http://docs.google.com/java/net/SocketImpl.html#create(boolean))(boolean stream)            Creates either a stream or a datagram socket. |
| [Enumeration](http://docs.google.com/java/util/Enumeration.html)<[URL](http://docs.google.com/java/net/URL.html)> | **URLClassLoader.**[**findResources**](http://docs.google.com/java/net/URLClassLoader.html#findResources(java.lang.String))([String](http://docs.google.com/java/lang/String.html) name)            Returns an Enumeration of URLs representing all of the resources on the URL search path having the specified name. |
| [Map](http://docs.google.com/java/util/Map.html)<[String](http://docs.google.com/java/lang/String.html),[List](http://docs.google.com/java/util/List.html)<[String](http://docs.google.com/java/lang/String.html)>> | **CookieManager.**[**get**](http://docs.google.com/java/net/CookieManager.html#get(java.net.URI,%20java.util.Map))([URI](http://docs.google.com/java/net/URI.html) uri, [Map](http://docs.google.com/java/util/Map.html)<[String](http://docs.google.com/java/lang/String.html),[List](http://docs.google.com/java/util/List.html)<[String](http://docs.google.com/java/lang/String.html)>> requestHeaders) |
| abstract  [Map](http://docs.google.com/java/util/Map.html)<[String](http://docs.google.com/java/lang/String.html),[List](http://docs.google.com/java/util/List.html)<[String](http://docs.google.com/java/lang/String.html)>> | **CookieHandler.**[**get**](http://docs.google.com/java/net/CookieHandler.html#get(java.net.URI,%20java.util.Map))([URI](http://docs.google.com/java/net/URI.html) uri, [Map](http://docs.google.com/java/util/Map.html)<[String](http://docs.google.com/java/lang/String.html),[List](http://docs.google.com/java/util/List.html)<[String](http://docs.google.com/java/lang/String.html)>> requestHeaders)            Gets all the applicable cookies from a cookie cache for the specified uri in the request header. |
| abstract  [CacheResponse](http://docs.google.com/java/net/CacheResponse.html) | **ResponseCache.**[**get**](http://docs.google.com/java/net/ResponseCache.html#get(java.net.URI,%20java.lang.String,%20java.util.Map))([URI](http://docs.google.com/java/net/URI.html) uri, [String](http://docs.google.com/java/lang/String.html) rqstMethod, [Map](http://docs.google.com/java/util/Map.html)<[String](http://docs.google.com/java/lang/String.html),[List](http://docs.google.com/java/util/List.html)<[String](http://docs.google.com/java/lang/String.html)>> rqstHeaders)            Retrieve the cached response based on the requesting uri, request method and request headers. |
| [Attributes](http://docs.google.com/java/util/jar/Attributes.html) | **JarURLConnection.**[**getAttributes**](http://docs.google.com/java/net/JarURLConnection.html#getAttributes())()            Return the Attributes object for this connection if the URL for it points to a JAR file entry, null otherwise. |
| abstract  [InputStream](http://docs.google.com/java/io/InputStream.html) | **CacheResponse.**[**getBody**](http://docs.google.com/java/net/CacheResponse.html#getBody())()            Returns the response body as an InputStream. |
| abstract  [OutputStream](http://docs.google.com/java/io/OutputStream.html) | **CacheRequest.**[**getBody**](http://docs.google.com/java/net/CacheRequest.html#getBody())()            Returns an OutputStream to which the response body can be written. |
| [Certificate](http://docs.google.com/java/security/cert/Certificate.html)[] | **JarURLConnection.**[**getCertificates**](http://docs.google.com/java/net/JarURLConnection.html#getCertificates())()            Return the Certificate object for this connection if the URL for it points to a JAR file entry, null otherwise. |
| [Object](http://docs.google.com/java/lang/Object.html) | **URLConnection.**[**getContent**](http://docs.google.com/java/net/URLConnection.html#getContent())()            Retrieves the contents of this URL connection. |
| [Object](http://docs.google.com/java/lang/Object.html) | **URL.**[**getContent**](http://docs.google.com/java/net/URL.html#getContent())()            Gets the contents of this URL. |
| [Object](http://docs.google.com/java/lang/Object.html) | **URLConnection.**[**getContent**](http://docs.google.com/java/net/URLConnection.html#getContent(java.lang.Class%5B%5D))([Class](http://docs.google.com/java/lang/Class.html)[] classes)            Retrieves the contents of this URL connection. |
| [Object](http://docs.google.com/java/lang/Object.html) | **URL.**[**getContent**](http://docs.google.com/java/net/URL.html#getContent(java.lang.Class%5B%5D))([Class](http://docs.google.com/java/lang/Class.html)[] classes)            Gets the contents of this URL. |
| abstract  [Object](http://docs.google.com/java/lang/Object.html) | **ContentHandler.**[**getContent**](http://docs.google.com/java/net/ContentHandler.html#getContent(java.net.URLConnection))([URLConnection](http://docs.google.com/java/net/URLConnection.html) urlc)            Given a URL connect stream positioned at the beginning of the representation of an object, this method reads that stream and creates an object from it. |
| [Object](http://docs.google.com/java/lang/Object.html) | **ContentHandler.**[**getContent**](http://docs.google.com/java/net/ContentHandler.html#getContent(java.net.URLConnection,%20java.lang.Class%5B%5D))([URLConnection](http://docs.google.com/java/net/URLConnection.html) urlc, [Class](http://docs.google.com/java/lang/Class.html)[] classes)            Given a URL connect stream positioned at the beginning of the representation of an object, this method reads that stream and creates an object that matches one of the types specified. |
| abstract  [Map](http://docs.google.com/java/util/Map.html)<[String](http://docs.google.com/java/lang/String.html),[List](http://docs.google.com/java/util/List.html)<[String](http://docs.google.com/java/lang/String.html)>> | **CacheResponse.**[**getHeaders**](http://docs.google.com/java/net/CacheResponse.html#getHeaders())()            Returns the response headers as a Map. |
| protected abstract  [InputStream](http://docs.google.com/java/io/InputStream.html) | **SocketImpl.**[**getInputStream**](http://docs.google.com/java/net/SocketImpl.html#getInputStream())()            Returns an input stream for this socket. |
| [InputStream](http://docs.google.com/java/io/InputStream.html) | **Socket.**[**getInputStream**](http://docs.google.com/java/net/Socket.html#getInputStream())()            Returns an input stream for this socket. |
| [InputStream](http://docs.google.com/java/io/InputStream.html) | **URLConnection.**[**getInputStream**](http://docs.google.com/java/net/URLConnection.html#getInputStream())()            Returns an input stream that reads from this open connection. |
| [JarEntry](http://docs.google.com/java/util/jar/JarEntry.html) | **JarURLConnection.**[**getJarEntry**](http://docs.google.com/java/net/JarURLConnection.html#getJarEntry())()            Return the JAR entry object for this connection, if any. |
| abstract  [JarFile](http://docs.google.com/java/util/jar/JarFile.html) | **JarURLConnection.**[**getJarFile**](http://docs.google.com/java/net/JarURLConnection.html#getJarFile())()            Return the JAR file for this connection. |
| [Attributes](http://docs.google.com/java/util/jar/Attributes.html) | **JarURLConnection.**[**getMainAttributes**](http://docs.google.com/java/net/JarURLConnection.html#getMainAttributes())()            Returns the main Attributes for the JAR file for this connection. |
| [Manifest](http://docs.google.com/java/util/jar/Manifest.html) | **JarURLConnection.**[**getManifest**](http://docs.google.com/java/net/JarURLConnection.html#getManifest())()            Returns the Manifest for this connection, or null if none. |
| protected abstract  [OutputStream](http://docs.google.com/java/io/OutputStream.html) | **SocketImpl.**[**getOutputStream**](http://docs.google.com/java/net/SocketImpl.html#getOutputStream())()            Returns an output stream for this socket. |
| [OutputStream](http://docs.google.com/java/io/OutputStream.html) | **Socket.**[**getOutputStream**](http://docs.google.com/java/net/Socket.html#getOutputStream())()            Returns an output stream for this socket. |
| [OutputStream](http://docs.google.com/java/io/OutputStream.html) | **URLConnection.**[**getOutputStream**](http://docs.google.com/java/net/URLConnection.html#getOutputStream())()            Returns an output stream that writes to this connection. |
| [Permission](http://docs.google.com/java/security/Permission.html) | **HttpURLConnection.**[**getPermission**](http://docs.google.com/java/net/HttpURLConnection.html#getPermission())() |
| [Permission](http://docs.google.com/java/security/Permission.html) | **URLConnection.**[**getPermission**](http://docs.google.com/java/net/URLConnection.html#getPermission())()            Returns a permission object representing the permission necessary to make the connection represented by this object. |
| int | **HttpURLConnection.**[**getResponseCode**](http://docs.google.com/java/net/HttpURLConnection.html#getResponseCode())()            Gets the status code from an HTTP response message. |
| [String](http://docs.google.com/java/lang/String.html) | **HttpURLConnection.**[**getResponseMessage**](http://docs.google.com/java/net/HttpURLConnection.html#getResponseMessage())()            Gets the HTTP response message, if any, returned along with the response code from a server. |
| int | **ServerSocket.**[**getSoTimeout**](http://docs.google.com/java/net/ServerSocket.html#getSoTimeout())()            Retrieve setting for SO\_TIMEOUT. |
| int | **MulticastSocket.**[**getTimeToLive**](http://docs.google.com/java/net/MulticastSocket.html#getTimeToLive())()            Get the default time-to-live for multicast packets sent out on the socket. |
| protected abstract  int | **DatagramSocketImpl.**[**getTimeToLive**](http://docs.google.com/java/net/DatagramSocketImpl.html#getTimeToLive())()            Retrieve the TTL (time-to-live) option. |
| byte | **MulticastSocket.**[**getTTL**](http://docs.google.com/java/net/MulticastSocket.html#getTTL())()  **Deprecated.** *use the getTimeToLive method instead, which returns an* ***int*** *instead of a* ***byte****.* |
| protected abstract  byte | **DatagramSocketImpl.**[**getTTL**](http://docs.google.com/java/net/DatagramSocketImpl.html#getTTL())()  **Deprecated.** *use getTimeToLive instead.* |
| static [String](http://docs.google.com/java/lang/String.html) | **URLConnection.**[**guessContentTypeFromStream**](http://docs.google.com/java/net/URLConnection.html#guessContentTypeFromStream(java.io.InputStream))([InputStream](http://docs.google.com/java/io/InputStream.html) is)            Tries to determine the type of an input stream based on the characters at the beginning of the input stream. |
| protected  void | **ServerSocket.**[**implAccept**](http://docs.google.com/java/net/ServerSocket.html#implAccept(java.net.Socket))([Socket](http://docs.google.com/java/net/Socket.html) s)            Subclasses of ServerSocket use this method to override accept() to return their own subclass of socket. |
| boolean | **InetAddress.**[**isReachable**](http://docs.google.com/java/net/InetAddress.html#isReachable(int))(int timeout)            Test whether that address is reachable. |
| boolean | **InetAddress.**[**isReachable**](http://docs.google.com/java/net/InetAddress.html#isReachable(java.net.NetworkInterface,%20int,%20int))([NetworkInterface](http://docs.google.com/java/net/NetworkInterface.html) netif, int ttl, int timeout)            Test whether that address is reachable. |
| protected abstract  void | **DatagramSocketImpl.**[**join**](http://docs.google.com/java/net/DatagramSocketImpl.html#join(java.net.InetAddress))([InetAddress](http://docs.google.com/java/net/InetAddress.html) inetaddr)            Join the multicast group. |
| void | **MulticastSocket.**[**joinGroup**](http://docs.google.com/java/net/MulticastSocket.html#joinGroup(java.net.InetAddress))([InetAddress](http://docs.google.com/java/net/InetAddress.html) mcastaddr)            Joins a multicast group. |
| void | **MulticastSocket.**[**joinGroup**](http://docs.google.com/java/net/MulticastSocket.html#joinGroup(java.net.SocketAddress,%20java.net.NetworkInterface))([SocketAddress](http://docs.google.com/java/net/SocketAddress.html) mcastaddr, [NetworkInterface](http://docs.google.com/java/net/NetworkInterface.html) netIf)            Joins the specified multicast group at the specified interface. |
| protected abstract  void | **DatagramSocketImpl.**[**joinGroup**](http://docs.google.com/java/net/DatagramSocketImpl.html#joinGroup(java.net.SocketAddress,%20java.net.NetworkInterface))([SocketAddress](http://docs.google.com/java/net/SocketAddress.html) mcastaddr, [NetworkInterface](http://docs.google.com/java/net/NetworkInterface.html) netIf)            Join the multicast group. |
| protected abstract  void | **DatagramSocketImpl.**[**leave**](http://docs.google.com/java/net/DatagramSocketImpl.html#leave(java.net.InetAddress))([InetAddress](http://docs.google.com/java/net/InetAddress.html) inetaddr)            Leave the multicast group. |
| void | **MulticastSocket.**[**leaveGroup**](http://docs.google.com/java/net/MulticastSocket.html#leaveGroup(java.net.InetAddress))([InetAddress](http://docs.google.com/java/net/InetAddress.html) mcastaddr)            Leave a multicast group. |
| void | **MulticastSocket.**[**leaveGroup**](http://docs.google.com/java/net/MulticastSocket.html#leaveGroup(java.net.SocketAddress,%20java.net.NetworkInterface))([SocketAddress](http://docs.google.com/java/net/SocketAddress.html) mcastaddr, [NetworkInterface](http://docs.google.com/java/net/NetworkInterface.html) netIf)            Leave a multicast group on a specified local interface. |
| protected abstract  void | **DatagramSocketImpl.**[**leaveGroup**](http://docs.google.com/java/net/DatagramSocketImpl.html#leaveGroup(java.net.SocketAddress,%20java.net.NetworkInterface))([SocketAddress](http://docs.google.com/java/net/SocketAddress.html) mcastaddr, [NetworkInterface](http://docs.google.com/java/net/NetworkInterface.html) netIf)            Leave the multicast group. |
| protected abstract  void | **SocketImpl.**[**listen**](http://docs.google.com/java/net/SocketImpl.html#listen(int))(int backlog)            Sets the maximum queue length for incoming connection indications (a request to connect) to the count argument. |
| [URLConnection](http://docs.google.com/java/net/URLConnection.html) | **URL.**[**openConnection**](http://docs.google.com/java/net/URL.html#openConnection())()            Returns a URLConnection object that represents a connection to the remote object referred to by the URL. |
| [URLConnection](http://docs.google.com/java/net/URLConnection.html) | **URL.**[**openConnection**](http://docs.google.com/java/net/URL.html#openConnection(java.net.Proxy))([Proxy](http://docs.google.com/java/net/Proxy.html) proxy)            Same as openConnection(), except that the connection will be made through the specified proxy; Protocol handlers that do not support proxing will ignore the proxy parameter and make a normal connection. |
| protected abstract  [URLConnection](http://docs.google.com/java/net/URLConnection.html) | **URLStreamHandler.**[**openConnection**](http://docs.google.com/java/net/URLStreamHandler.html#openConnection(java.net.URL))([URL](http://docs.google.com/java/net/URL.html) u)            Opens a connection to the object referenced by the URL argument. |
| protected  [URLConnection](http://docs.google.com/java/net/URLConnection.html) | **URLStreamHandler.**[**openConnection**](http://docs.google.com/java/net/URLStreamHandler.html#openConnection(java.net.URL,%20java.net.Proxy))([URL](http://docs.google.com/java/net/URL.html) u, [Proxy](http://docs.google.com/java/net/Proxy.html) p)            Same as openConnection(URL), except that the connection will be made through the specified proxy; Protocol handlers that do not support proxying will ignore the proxy parameter and make a normal connection. |
| [InputStream](http://docs.google.com/java/io/InputStream.html) | **URL.**[**openStream**](http://docs.google.com/java/net/URL.html#openStream())()            Opens a connection to this URL and returns an InputStream for reading from that connection. |
| protected abstract  int | **DatagramSocketImpl.**[**peek**](http://docs.google.com/java/net/DatagramSocketImpl.html#peek(java.net.InetAddress))([InetAddress](http://docs.google.com/java/net/InetAddress.html) i)            Peek at the packet to see who it is from. |
| protected abstract  int | **DatagramSocketImpl.**[**peekData**](http://docs.google.com/java/net/DatagramSocketImpl.html#peekData(java.net.DatagramPacket))([DatagramPacket](http://docs.google.com/java/net/DatagramPacket.html) p)            Peek at the packet to see who it is from. |
| void | **CookieManager.**[**put**](http://docs.google.com/java/net/CookieManager.html#put(java.net.URI,%20java.util.Map))([URI](http://docs.google.com/java/net/URI.html) uri, [Map](http://docs.google.com/java/util/Map.html)<[String](http://docs.google.com/java/lang/String.html),[List](http://docs.google.com/java/util/List.html)<[String](http://docs.google.com/java/lang/String.html)>> responseHeaders) |
| abstract  void | **CookieHandler.**[**put**](http://docs.google.com/java/net/CookieHandler.html#put(java.net.URI,%20java.util.Map))([URI](http://docs.google.com/java/net/URI.html) uri, [Map](http://docs.google.com/java/util/Map.html)<[String](http://docs.google.com/java/lang/String.html),[List](http://docs.google.com/java/util/List.html)<[String](http://docs.google.com/java/lang/String.html)>> responseHeaders)            Sets all the applicable cookies, examples are response header fields that are named Set-Cookie2, present in the response headers into a cookie cache. |
| abstract  [CacheRequest](http://docs.google.com/java/net/CacheRequest.html) | **ResponseCache.**[**put**](http://docs.google.com/java/net/ResponseCache.html#put(java.net.URI,%20java.net.URLConnection))([URI](http://docs.google.com/java/net/URI.html) uri, [URLConnection](http://docs.google.com/java/net/URLConnection.html) conn)            The protocol handler calls this method after a resource has been retrieved, and the ResponseCache must decide whether or not to store the resource in its cache. |
| protected abstract  void | **DatagramSocketImpl.**[**receive**](http://docs.google.com/java/net/DatagramSocketImpl.html#receive(java.net.DatagramPacket))([DatagramPacket](http://docs.google.com/java/net/DatagramPacket.html) p)            Receive the datagram packet. |
| void | **DatagramSocket.**[**receive**](http://docs.google.com/java/net/DatagramSocket.html#receive(java.net.DatagramPacket))([DatagramPacket](http://docs.google.com/java/net/DatagramPacket.html) p)            Receives a datagram packet from this socket. |
| protected abstract  void | **DatagramSocketImpl.**[**send**](http://docs.google.com/java/net/DatagramSocketImpl.html#send(java.net.DatagramPacket))([DatagramPacket](http://docs.google.com/java/net/DatagramPacket.html) p)            Sends a datagram packet. |
| void | **DatagramSocket.**[**send**](http://docs.google.com/java/net/DatagramSocket.html#send(java.net.DatagramPacket))([DatagramPacket](http://docs.google.com/java/net/DatagramPacket.html) p)            Sends a datagram packet from this socket. |
| void | **MulticastSocket.**[**send**](http://docs.google.com/java/net/MulticastSocket.html#send(java.net.DatagramPacket,%20byte))([DatagramPacket](http://docs.google.com/java/net/DatagramPacket.html) p, byte ttl)  **Deprecated.** *Use the following code or its equivalent instead: ...... int ttl = mcastSocket.getTimeToLive(); mcastSocket.setTimeToLive(newttl); mcastSocket.send(p); mcastSocket.setTimeToLive(ttl); ......* |
| protected abstract  void | **SocketImpl.**[**sendUrgentData**](http://docs.google.com/java/net/SocketImpl.html#sendUrgentData(int))(int data)            Send one byte of urgent data on the socket. |
| void | **Socket.**[**sendUrgentData**](http://docs.google.com/java/net/Socket.html#sendUrgentData(int))(int data)            Send one byte of urgent data on the socket. |
| static void | **DatagramSocket.**[**setDatagramSocketImplFactory**](http://docs.google.com/java/net/DatagramSocket.html#setDatagramSocketImplFactory(java.net.DatagramSocketImplFactory))([DatagramSocketImplFactory](http://docs.google.com/java/net/DatagramSocketImplFactory.html) fac)            Sets the datagram socket implementation factory for the application. |
| static void | **ServerSocket.**[**setSocketFactory**](http://docs.google.com/java/net/ServerSocket.html#setSocketFactory(java.net.SocketImplFactory))([SocketImplFactory](http://docs.google.com/java/net/SocketImplFactory.html) fac)            Sets the server socket implementation factory for the application. |
| static void | **Socket.**[**setSocketImplFactory**](http://docs.google.com/java/net/Socket.html#setSocketImplFactory(java.net.SocketImplFactory))([SocketImplFactory](http://docs.google.com/java/net/SocketImplFactory.html) fac)            Sets the client socket implementation factory for the application. |
| void | **MulticastSocket.**[**setTimeToLive**](http://docs.google.com/java/net/MulticastSocket.html#setTimeToLive(int))(int ttl)            Set the default time-to-live for multicast packets sent out on this MulticastSocket in order to control the scope of the multicasts. |
| protected abstract  void | **DatagramSocketImpl.**[**setTimeToLive**](http://docs.google.com/java/net/DatagramSocketImpl.html#setTimeToLive(int))(int ttl)            Set the TTL (time-to-live) option. |
| void | **MulticastSocket.**[**setTTL**](http://docs.google.com/java/net/MulticastSocket.html#setTTL(byte))(byte ttl)  **Deprecated.** *use the setTimeToLive method instead, which uses* ***int*** *instead of* ***byte*** *as the type for ttl.* |
| protected abstract  void | **DatagramSocketImpl.**[**setTTL**](http://docs.google.com/java/net/DatagramSocketImpl.html#setTTL(byte))(byte ttl)  **Deprecated.** *use setTimeToLive instead.* |
| protected  void | **SocketImpl.**[**shutdownInput**](http://docs.google.com/java/net/SocketImpl.html#shutdownInput())()            Places the input stream for this socket at "end of stream". |
| void | **Socket.**[**shutdownInput**](http://docs.google.com/java/net/Socket.html#shutdownInput())()            Places the input stream for this socket at "end of stream". |
| protected  void | **SocketImpl.**[**shutdownOutput**](http://docs.google.com/java/net/SocketImpl.html#shutdownOutput())()            Disables the output stream for this socket. |
| void | **Socket.**[**shutdownOutput**](http://docs.google.com/java/net/Socket.html#shutdownOutput())()            Disables the output stream for this socket. |

| Constructors in [java.net](http://docs.google.com/java/net/package-summary.html) that throw [IOException](http://docs.google.com/java/io/IOException.html) | |
| --- | --- |
| [**MulticastSocket**](http://docs.google.com/java/net/MulticastSocket.html#MulticastSocket())()            Create a multicast socket. |
| [**MulticastSocket**](http://docs.google.com/java/net/MulticastSocket.html#MulticastSocket(int))(int port)            Create a multicast socket and bind it to a specific port. |
| [**MulticastSocket**](http://docs.google.com/java/net/MulticastSocket.html#MulticastSocket(java.net.SocketAddress))([SocketAddress](http://docs.google.com/java/net/SocketAddress.html) bindaddr)            Create a MulticastSocket bound to the specified socket address. |
| [**ServerSocket**](http://docs.google.com/java/net/ServerSocket.html#ServerSocket())()            Creates an unbound server socket. |
| [**ServerSocket**](http://docs.google.com/java/net/ServerSocket.html#ServerSocket(int))(int port)            Creates a server socket, bound to the specified port. |
| [**ServerSocket**](http://docs.google.com/java/net/ServerSocket.html#ServerSocket(int,%20int))(int port, int backlog)            Creates a server socket and binds it to the specified local port number, with the specified backlog. |
| [**ServerSocket**](http://docs.google.com/java/net/ServerSocket.html#ServerSocket(int,%20int,%20java.net.InetAddress))(int port, int backlog, [InetAddress](http://docs.google.com/java/net/InetAddress.html) bindAddr)            Create a server with the specified port, listen backlog, and local IP address to bind to. |
| [**Socket**](http://docs.google.com/java/net/Socket.html#Socket(java.net.InetAddress,%20int))([InetAddress](http://docs.google.com/java/net/InetAddress.html) address, int port)            Creates a stream socket and connects it to the specified port number at the specified IP address. |
| [**Socket**](http://docs.google.com/java/net/Socket.html#Socket(java.net.InetAddress,%20int,%20boolean))([InetAddress](http://docs.google.com/java/net/InetAddress.html) host, int port, boolean stream)  **Deprecated.** *Use DatagramSocket instead for UDP transport.* |
| [**Socket**](http://docs.google.com/java/net/Socket.html#Socket(java.net.InetAddress,%20int,%20java.net.InetAddress,%20int))([InetAddress](http://docs.google.com/java/net/InetAddress.html) address, int port, [InetAddress](http://docs.google.com/java/net/InetAddress.html) localAddr, int localPort)            Creates a socket and connects it to the specified remote address on the specified remote port. |
| [**Socket**](http://docs.google.com/java/net/Socket.html#Socket(java.lang.String,%20int))([String](http://docs.google.com/java/lang/String.html) host, int port)            Creates a stream socket and connects it to the specified port number on the named host. |
| [**Socket**](http://docs.google.com/java/net/Socket.html#Socket(java.lang.String,%20int,%20boolean))([String](http://docs.google.com/java/lang/String.html) host, int port, boolean stream)  **Deprecated.** *Use DatagramSocket instead for UDP transport.* |
| [**Socket**](http://docs.google.com/java/net/Socket.html#Socket(java.lang.String,%20int,%20java.net.InetAddress,%20int))([String](http://docs.google.com/java/lang/String.html) host, int port, [InetAddress](http://docs.google.com/java/net/InetAddress.html) localAddr, int localPort)            Creates a socket and connects it to the specified remote host on the specified remote port. |

| Uses of [IOException](http://docs.google.com/java/io/IOException.html) in [java.nio](http://docs.google.com/java/nio/package-summary.html) | |
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| Methods in [java.nio](http://docs.google.com/java/nio/package-summary.html) that throw [IOException](http://docs.google.com/java/io/IOException.html) | |
| --- | --- |
| int | **CharBuffer.**[**read**](http://docs.google.com/java/nio/CharBuffer.html#read(java.nio.CharBuffer))([CharBuffer](http://docs.google.com/java/nio/CharBuffer.html) target)            Attempts to read characters into the specified character buffer. |

| Uses of [IOException](http://docs.google.com/java/io/IOException.html) in [java.nio.channels](http://docs.google.com/java/nio/channels/package-summary.html) | |
| --- | --- |

| Subclasses of [IOException](http://docs.google.com/java/io/IOException.html) in [java.nio.channels](http://docs.google.com/java/nio/channels/package-summary.html) | |
| --- | --- |
| class | [**AsynchronousCloseException**](http://docs.google.com/java/nio/channels/AsynchronousCloseException.html)            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. |
| class | [**ClosedByInterruptException**](http://docs.google.com/java/nio/channels/ClosedByInterruptException.html)            Checked exception received by a thread when another thread interrupts it while it is blocked in an I/O operation upon a channel. |
| class | [**ClosedChannelException**](http://docs.google.com/java/nio/channels/ClosedChannelException.html)            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. |
| class | [**FileLockInterruptionException**](http://docs.google.com/java/nio/channels/FileLockInterruptionException.html)            Checked exception received by a thread when another thread interrupts it while it is waiting to acquire a file lock. |

| Methods in [java.nio.channels](http://docs.google.com/java/nio/channels/package-summary.html) that throw [IOException](http://docs.google.com/java/io/IOException.html) | |
| --- | --- |
| abstract  [SocketChannel](http://docs.google.com/java/nio/channels/SocketChannel.html) | **ServerSocketChannel.**[**accept**](http://docs.google.com/java/nio/channels/ServerSocketChannel.html#accept())()            Accepts a connection made to this channel's socket. |
| abstract  void | **Selector.**[**close**](http://docs.google.com/java/nio/channels/Selector.html#close())()            Closes this selector. |
| void | **InterruptibleChannel.**[**close**](http://docs.google.com/java/nio/channels/InterruptibleChannel.html#close())()            Closes this channel. |
| void | **Channel.**[**close**](http://docs.google.com/java/nio/channels/Channel.html#close())()            Closes this channel. |
| abstract  [SelectableChannel](http://docs.google.com/java/nio/channels/SelectableChannel.html) | **SelectableChannel.**[**configureBlocking**](http://docs.google.com/java/nio/channels/SelectableChannel.html#configureBlocking(boolean))(boolean block)            Adjusts this channel's blocking mode. |
| abstract  boolean | **SocketChannel.**[**connect**](http://docs.google.com/java/nio/channels/SocketChannel.html#connect(java.net.SocketAddress))([SocketAddress](http://docs.google.com/java/net/SocketAddress.html) remote)            Connects this channel's socket. |
| abstract  [DatagramChannel](http://docs.google.com/java/nio/channels/DatagramChannel.html) | **DatagramChannel.**[**connect**](http://docs.google.com/java/nio/channels/DatagramChannel.html#connect(java.net.SocketAddress))([SocketAddress](http://docs.google.com/java/net/SocketAddress.html) remote)            Connects this channel's socket. |
| abstract  [DatagramChannel](http://docs.google.com/java/nio/channels/DatagramChannel.html) | **DatagramChannel.**[**disconnect**](http://docs.google.com/java/nio/channels/DatagramChannel.html#disconnect())()            Disconnects this channel's socket. |
| abstract  boolean | **SocketChannel.**[**finishConnect**](http://docs.google.com/java/nio/channels/SocketChannel.html#finishConnect())()            Finishes the process of connecting a socket channel. |
| abstract  void | **FileChannel.**[**force**](http://docs.google.com/java/nio/channels/FileChannel.html#force(boolean))(boolean metaData)            Forces any updates to this channel's file to be written to the storage device that contains it. |
| [FileLock](http://docs.google.com/java/nio/channels/FileLock.html) | **FileChannel.**[**lock**](http://docs.google.com/java/nio/channels/FileChannel.html#lock())()            Acquires an exclusive lock on this channel's file. |
| abstract  [FileLock](http://docs.google.com/java/nio/channels/FileLock.html) | **FileChannel.**[**lock**](http://docs.google.com/java/nio/channels/FileChannel.html#lock(long,%20long,%20boolean))(long position, long size, boolean shared)            Acquires a lock on the given region of this channel's file. |
| abstract  [MappedByteBuffer](http://docs.google.com/java/nio/MappedByteBuffer.html) | **FileChannel.**[**map**](http://docs.google.com/java/nio/channels/FileChannel.html#map(java.nio.channels.FileChannel.MapMode,%20long,%20long))([FileChannel.MapMode](http://docs.google.com/java/nio/channels/FileChannel.MapMode.html) mode, long position, long size)            Maps a region of this channel's file directly into memory. |
| static [SocketChannel](http://docs.google.com/java/nio/channels/SocketChannel.html) | **SocketChannel.**[**open**](http://docs.google.com/java/nio/channels/SocketChannel.html#open())()            Opens a socket channel. |
| static [ServerSocketChannel](http://docs.google.com/java/nio/channels/ServerSocketChannel.html) | **ServerSocketChannel.**[**open**](http://docs.google.com/java/nio/channels/ServerSocketChannel.html#open())()            Opens a server-socket channel. |
| static [Selector](http://docs.google.com/java/nio/channels/Selector.html) | **Selector.**[**open**](http://docs.google.com/java/nio/channels/Selector.html#open())()            Opens a selector. |
| static [Pipe](http://docs.google.com/java/nio/channels/Pipe.html) | **Pipe.**[**open**](http://docs.google.com/java/nio/channels/Pipe.html#open())()            Opens a pipe. |
| static [DatagramChannel](http://docs.google.com/java/nio/channels/DatagramChannel.html) | **DatagramChannel.**[**open**](http://docs.google.com/java/nio/channels/DatagramChannel.html#open())()            Opens a datagram channel. |
| static [SocketChannel](http://docs.google.com/java/nio/channels/SocketChannel.html) | **SocketChannel.**[**open**](http://docs.google.com/java/nio/channels/SocketChannel.html#open(java.net.SocketAddress))([SocketAddress](http://docs.google.com/java/net/SocketAddress.html) remote)            Opens a socket channel and connects it to a remote address. |
| abstract  long | **FileChannel.**[**position**](http://docs.google.com/java/nio/channels/FileChannel.html#position())()            Returns this channel's file position. |
| abstract  [FileChannel](http://docs.google.com/java/nio/channels/FileChannel.html) | **FileChannel.**[**position**](http://docs.google.com/java/nio/channels/FileChannel.html#position(long))(long newPosition)            Sets this channel's file position. |
| abstract  int | **SocketChannel.**[**read**](http://docs.google.com/java/nio/channels/SocketChannel.html#read(java.nio.ByteBuffer))([ByteBuffer](http://docs.google.com/java/nio/ByteBuffer.html) dst) |
| abstract  int | **DatagramChannel.**[**read**](http://docs.google.com/java/nio/channels/DatagramChannel.html#read(java.nio.ByteBuffer))([ByteBuffer](http://docs.google.com/java/nio/ByteBuffer.html) dst)            Reads a datagram from this channel. |
| abstract  int | **FileChannel.**[**read**](http://docs.google.com/java/nio/channels/FileChannel.html#read(java.nio.ByteBuffer))([ByteBuffer](http://docs.google.com/java/nio/ByteBuffer.html) dst)            Reads a sequence of bytes from this channel into the given buffer. |
| int | **ReadableByteChannel.**[**read**](http://docs.google.com/java/nio/channels/ReadableByteChannel.html#read(java.nio.ByteBuffer))([ByteBuffer](http://docs.google.com/java/nio/ByteBuffer.html) dst)            Reads a sequence of bytes from this channel into the given buffer. |
| long | **SocketChannel.**[**read**](http://docs.google.com/java/nio/channels/SocketChannel.html#read(java.nio.ByteBuffer%5B%5D))([ByteBuffer](http://docs.google.com/java/nio/ByteBuffer.html)[] dsts) |
| long | **DatagramChannel.**[**read**](http://docs.google.com/java/nio/channels/DatagramChannel.html#read(java.nio.ByteBuffer%5B%5D))([ByteBuffer](http://docs.google.com/java/nio/ByteBuffer.html)[] dsts)            Reads a datagram from this channel. |
| long | **ScatteringByteChannel.**[**read**](http://docs.google.com/java/nio/channels/ScatteringByteChannel.html#read(java.nio.ByteBuffer%5B%5D))([ByteBuffer](http://docs.google.com/java/nio/ByteBuffer.html)[] dsts)            Reads a sequence of bytes from this channel into the given buffers. |
| long | **FileChannel.**[**read**](http://docs.google.com/java/nio/channels/FileChannel.html#read(java.nio.ByteBuffer%5B%5D))([ByteBuffer](http://docs.google.com/java/nio/ByteBuffer.html)[] dsts)            Reads a sequence of bytes from this channel into the given buffers. |
| abstract  long | **SocketChannel.**[**read**](http://docs.google.com/java/nio/channels/SocketChannel.html#read(java.nio.ByteBuffer%5B%5D,%20int,%20int))([ByteBuffer](http://docs.google.com/java/nio/ByteBuffer.html)[] dsts, int offset, int length) |
| abstract  long | **DatagramChannel.**[**read**](http://docs.google.com/java/nio/channels/DatagramChannel.html#read(java.nio.ByteBuffer%5B%5D,%20int,%20int))([ByteBuffer](http://docs.google.com/java/nio/ByteBuffer.html)[] dsts, int offset, int length)            Reads a datagram from this channel. |
| long | **ScatteringByteChannel.**[**read**](http://docs.google.com/java/nio/channels/ScatteringByteChannel.html#read(java.nio.ByteBuffer%5B%5D,%20int,%20int))([ByteBuffer](http://docs.google.com/java/nio/ByteBuffer.html)[] dsts, int offset, int length)            Reads a sequence of bytes from this channel into a subsequence of the given buffers. |
| abstract  long | **FileChannel.**[**read**](http://docs.google.com/java/nio/channels/FileChannel.html#read(java.nio.ByteBuffer%5B%5D,%20int,%20int))([ByteBuffer](http://docs.google.com/java/nio/ByteBuffer.html)[] dsts, int offset, int length)            Reads a sequence of bytes from this channel into a subsequence of the given buffers. |
| abstract  int | **FileChannel.**[**read**](http://docs.google.com/java/nio/channels/FileChannel.html#read(java.nio.ByteBuffer,%20long))([ByteBuffer](http://docs.google.com/java/nio/ByteBuffer.html) dst, long position)            Reads a sequence of bytes from this channel into the given buffer, starting at the given file position. |
| abstract  [SocketAddress](http://docs.google.com/java/net/SocketAddress.html) | **DatagramChannel.**[**receive**](http://docs.google.com/java/nio/channels/DatagramChannel.html#receive(java.nio.ByteBuffer))([ByteBuffer](http://docs.google.com/java/nio/ByteBuffer.html) dst)            Receives a datagram via this channel. |
| abstract  void | **FileLock.**[**release**](http://docs.google.com/java/nio/channels/FileLock.html#release())()            Releases this lock. |
| abstract  int | **Selector.**[**select**](http://docs.google.com/java/nio/channels/Selector.html#select())()            Selects a set of keys whose corresponding channels are ready for I/O operations. |
| abstract  int | **Selector.**[**select**](http://docs.google.com/java/nio/channels/Selector.html#select(long))(long timeout)            Selects a set of keys whose corresponding channels are ready for I/O operations. |
| abstract  int | **Selector.**[**selectNow**](http://docs.google.com/java/nio/channels/Selector.html#selectNow())()            Selects a set of keys whose corresponding channels are ready for I/O operations. |
| abstract  int | **DatagramChannel.**[**send**](http://docs.google.com/java/nio/channels/DatagramChannel.html#send(java.nio.ByteBuffer,%20java.net.SocketAddress))([ByteBuffer](http://docs.google.com/java/nio/ByteBuffer.html) src, [SocketAddress](http://docs.google.com/java/net/SocketAddress.html) target)            Sends a datagram via this channel. |
| abstract  long | **FileChannel.**[**size**](http://docs.google.com/java/nio/channels/FileChannel.html#size())()            Returns the current size of this channel's file. |
| abstract  long | **FileChannel.**[**transferFrom**](http://docs.google.com/java/nio/channels/FileChannel.html#transferFrom(java.nio.channels.ReadableByteChannel,%20long,%20long))([ReadableByteChannel](http://docs.google.com/java/nio/channels/ReadableByteChannel.html) src, long position, long count)            Transfers bytes into this channel's file from the given readable byte channel. |
| abstract  long | **FileChannel.**[**transferTo**](http://docs.google.com/java/nio/channels/FileChannel.html#transferTo(long,%20long,%20java.nio.channels.WritableByteChannel))(long position, long count, [WritableByteChannel](http://docs.google.com/java/nio/channels/WritableByteChannel.html) target)            Transfers bytes from this channel's file to the given writable byte channel. |
| abstract  [FileChannel](http://docs.google.com/java/nio/channels/FileChannel.html) | **FileChannel.**[**truncate**](http://docs.google.com/java/nio/channels/FileChannel.html#truncate(long))(long size)            Truncates this channel's file to the given size. |
| [FileLock](http://docs.google.com/java/nio/channels/FileLock.html) | **FileChannel.**[**tryLock**](http://docs.google.com/java/nio/channels/FileChannel.html#tryLock())()            Attempts to acquire an exclusive lock on this channel's file. |
| abstract  [FileLock](http://docs.google.com/java/nio/channels/FileLock.html) | **FileChannel.**[**tryLock**](http://docs.google.com/java/nio/channels/FileChannel.html#tryLock(long,%20long,%20boolean))(long position, long size, boolean shared)            Attempts to acquire a lock on the given region of this channel's file. |
| abstract  int | **SocketChannel.**[**write**](http://docs.google.com/java/nio/channels/SocketChannel.html#write(java.nio.ByteBuffer))([ByteBuffer](http://docs.google.com/java/nio/ByteBuffer.html) src) |
| abstract  int | **DatagramChannel.**[**write**](http://docs.google.com/java/nio/channels/DatagramChannel.html#write(java.nio.ByteBuffer))([ByteBuffer](http://docs.google.com/java/nio/ByteBuffer.html) src)            Writes a datagram to this channel. |
| abstract  int | **FileChannel.**[**write**](http://docs.google.com/java/nio/channels/FileChannel.html#write(java.nio.ByteBuffer))([ByteBuffer](http://docs.google.com/java/nio/ByteBuffer.html) src)            Writes a sequence of bytes to this channel from the given buffer. |
| int | **WritableByteChannel.**[**write**](http://docs.google.com/java/nio/channels/WritableByteChannel.html#write(java.nio.ByteBuffer))([ByteBuffer](http://docs.google.com/java/nio/ByteBuffer.html) src)            Writes a sequence of bytes to this channel from the given buffer. |
| long | **SocketChannel.**[**write**](http://docs.google.com/java/nio/channels/SocketChannel.html#write(java.nio.ByteBuffer%5B%5D))([ByteBuffer](http://docs.google.com/java/nio/ByteBuffer.html)[] srcs) |
| long | **DatagramChannel.**[**write**](http://docs.google.com/java/nio/channels/DatagramChannel.html#write(java.nio.ByteBuffer%5B%5D))([ByteBuffer](http://docs.google.com/java/nio/ByteBuffer.html)[] srcs)            Writes a datagram to this channel. |
| long | **GatheringByteChannel.**[**write**](http://docs.google.com/java/nio/channels/GatheringByteChannel.html#write(java.nio.ByteBuffer%5B%5D))([ByteBuffer](http://docs.google.com/java/nio/ByteBuffer.html)[] srcs)            Writes a sequence of bytes to this channel from the given buffers. |
| long | **FileChannel.**[**write**](http://docs.google.com/java/nio/channels/FileChannel.html#write(java.nio.ByteBuffer%5B%5D))([ByteBuffer](http://docs.google.com/java/nio/ByteBuffer.html)[] srcs)            Writes a sequence of bytes to this channel from the given buffers. |
| abstract  long | **SocketChannel.**[**write**](http://docs.google.com/java/nio/channels/SocketChannel.html#write(java.nio.ByteBuffer%5B%5D,%20int,%20int))([ByteBuffer](http://docs.google.com/java/nio/ByteBuffer.html)[] srcs, int offset, int length) |
| abstract  long | **DatagramChannel.**[**write**](http://docs.google.com/java/nio/channels/DatagramChannel.html#write(java.nio.ByteBuffer%5B%5D,%20int,%20int))([ByteBuffer](http://docs.google.com/java/nio/ByteBuffer.html)[] srcs, int offset, int length)            Writes a datagram to this channel. |
| long | **GatheringByteChannel.**[**write**](http://docs.google.com/java/nio/channels/GatheringByteChannel.html#write(java.nio.ByteBuffer%5B%5D,%20int,%20int))([ByteBuffer](http://docs.google.com/java/nio/ByteBuffer.html)[] srcs, int offset, int length)            Writes a sequence of bytes to this channel from a subsequence of the given buffers. |
| abstract  long | **FileChannel.**[**write**](http://docs.google.com/java/nio/channels/FileChannel.html#write(java.nio.ByteBuffer%5B%5D,%20int,%20int))([ByteBuffer](http://docs.google.com/java/nio/ByteBuffer.html)[] srcs, int offset, int length)            Writes a sequence of bytes to this channel from a subsequence of the given buffers. |
| abstract  int | **FileChannel.**[**write**](http://docs.google.com/java/nio/channels/FileChannel.html#write(java.nio.ByteBuffer,%20long))([ByteBuffer](http://docs.google.com/java/nio/ByteBuffer.html) src, long position)            Writes a sequence of bytes to this channel from the given buffer, starting at the given file position. |

| Uses of [IOException](http://docs.google.com/java/io/IOException.html) in [java.nio.channels.spi](http://docs.google.com/java/nio/channels/spi/package-summary.html) | |
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| Methods in [java.nio.channels.spi](http://docs.google.com/java/nio/channels/spi/package-summary.html) that throw [IOException](http://docs.google.com/java/io/IOException.html) | |
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| void | **AbstractSelector.**[**close**](http://docs.google.com/java/nio/channels/spi/AbstractSelector.html#close())()            Closes this selector. |
| void | **AbstractInterruptibleChannel.**[**close**](http://docs.google.com/java/nio/channels/spi/AbstractInterruptibleChannel.html#close())()            Closes this channel. |
| [SelectableChannel](http://docs.google.com/java/nio/channels/SelectableChannel.html) | **AbstractSelectableChannel.**[**configureBlocking**](http://docs.google.com/java/nio/channels/spi/AbstractSelectableChannel.html#configureBlocking(boolean))(boolean block)            Adjusts this channel's blocking mode. |
| protected  void | **AbstractSelectableChannel.**[**implCloseChannel**](http://docs.google.com/java/nio/channels/spi/AbstractSelectableChannel.html#implCloseChannel())()            Closes this channel. |
| protected abstract  void | **AbstractInterruptibleChannel.**[**implCloseChannel**](http://docs.google.com/java/nio/channels/spi/AbstractInterruptibleChannel.html#implCloseChannel())()            Closes this channel. |
| protected abstract  void | **AbstractSelectableChannel.**[**implCloseSelectableChannel**](http://docs.google.com/java/nio/channels/spi/AbstractSelectableChannel.html#implCloseSelectableChannel())()            Closes this selectable channel. |
| protected abstract  void | **AbstractSelector.**[**implCloseSelector**](http://docs.google.com/java/nio/channels/spi/AbstractSelector.html#implCloseSelector())()            Closes this selector. |
| protected abstract  void | **AbstractSelectableChannel.**[**implConfigureBlocking**](http://docs.google.com/java/nio/channels/spi/AbstractSelectableChannel.html#implConfigureBlocking(boolean))(boolean block)            Adjusts this channel's blocking mode. |
| [Channel](http://docs.google.com/java/nio/channels/Channel.html) | **SelectorProvider.**[**inheritedChannel**](http://docs.google.com/java/nio/channels/spi/SelectorProvider.html#inheritedChannel())()            Returns the channel inherited from the entity that created this Java virtual machine. |
| abstract  [DatagramChannel](http://docs.google.com/java/nio/channels/DatagramChannel.html) | **SelectorProvider.**[**openDatagramChannel**](http://docs.google.com/java/nio/channels/spi/SelectorProvider.html#openDatagramChannel())()            Opens a datagram channel. |
| abstract  [Pipe](http://docs.google.com/java/nio/channels/Pipe.html) | **SelectorProvider.**[**openPipe**](http://docs.google.com/java/nio/channels/spi/SelectorProvider.html#openPipe())()            Opens a pipe. |
| abstract  [AbstractSelector](http://docs.google.com/java/nio/channels/spi/AbstractSelector.html) | **SelectorProvider.**[**openSelector**](http://docs.google.com/java/nio/channels/spi/SelectorProvider.html#openSelector())()            Opens a selector. |
| abstract  [ServerSocketChannel](http://docs.google.com/java/nio/channels/ServerSocketChannel.html) | **SelectorProvider.**[**openServerSocketChannel**](http://docs.google.com/java/nio/channels/spi/SelectorProvider.html#openServerSocketChannel())()            Opens a server-socket channel. |
| abstract  [SocketChannel](http://docs.google.com/java/nio/channels/SocketChannel.html) | **SelectorProvider.**[**openSocketChannel**](http://docs.google.com/java/nio/channels/spi/SelectorProvider.html#openSocketChannel())()            Opens a socket channel. |

| Uses of [IOException](http://docs.google.com/java/io/IOException.html) in [java.nio.charset](http://docs.google.com/java/nio/charset/package-summary.html) | |
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| Subclasses of [IOException](http://docs.google.com/java/io/IOException.html) in [java.nio.charset](http://docs.google.com/java/nio/charset/package-summary.html) | |
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| class | [**CharacterCodingException**](http://docs.google.com/java/nio/charset/CharacterCodingException.html)            Checked exception thrown when a character encoding or decoding error occurs. |
| class | [**MalformedInputException**](http://docs.google.com/java/nio/charset/MalformedInputException.html)            Checked exception thrown when an input byte sequence is not legal for given charset, or an input character sequence is not a legal sixteen-bit Unicode sequence. |
| class | [**UnmappableCharacterException**](http://docs.google.com/java/nio/charset/UnmappableCharacterException.html)            Checked exception thrown when an input character (or byte) sequence is valid but cannot be mapped to an output byte (or character) sequence. |

| Uses of [IOException](http://docs.google.com/java/io/IOException.html) in [java.rmi](http://docs.google.com/java/rmi/package-summary.html) | |
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| Subclasses of [IOException](http://docs.google.com/java/io/IOException.html) in [java.rmi](http://docs.google.com/java/rmi/package-summary.html) | |
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| class | [**AccessException**](http://docs.google.com/java/rmi/AccessException.html)            An AccessException is thrown by certain methods of the java.rmi.Naming class (specifically bind, rebind, and unbind) and methods of the java.rmi.activation.ActivationSystem interface to indicate that the caller does not have permission to perform the action requested by the method call. |
| class | [**ConnectException**](http://docs.google.com/java/rmi/ConnectException.html)            A ConnectException is thrown if a connection is refused to the remote host for a remote method call. |
| class | [**ConnectIOException**](http://docs.google.com/java/rmi/ConnectIOException.html)            A ConnectIOException is thrown if an IOException occurs while making a connection to the remote host for a remote method call. |
| class | [**MarshalException**](http://docs.google.com/java/rmi/MarshalException.html)            A MarshalException is thrown if a java.io.IOException occurs while marshalling the remote call header, arguments or return value for a remote method call. |
| class | [**NoSuchObjectException**](http://docs.google.com/java/rmi/NoSuchObjectException.html)            A NoSuchObjectException is thrown if an attempt is made to invoke a method on an object that no longer exists in the remote virtual machine. |
| class | [**RemoteException**](http://docs.google.com/java/rmi/RemoteException.html)            A RemoteException is the common superclass for a number of communication-related exceptions that may occur during the execution of a remote method call. |
| class | [**ServerError**](http://docs.google.com/java/rmi/ServerError.html)            A ServerError is thrown as a result of a remote method invocation when an Error is thrown while processing the invocation on the server, either while unmarshalling the arguments, executing the remote method itself, or marshalling the return value. |
| class | [**ServerException**](http://docs.google.com/java/rmi/ServerException.html)            A ServerException is thrown as a result of a remote method invocation when a RemoteException is thrown while processing the invocation on the server, either while unmarshalling the arguments or executing the remote method itself. |
| class | [**ServerRuntimeException**](http://docs.google.com/java/rmi/ServerRuntimeException.html)  **Deprecated.** *no replacement* |
| class | [**StubNotFoundException**](http://docs.google.com/java/rmi/StubNotFoundException.html)            A StubNotFoundException is thrown if a valid stub class could not be found for a remote object when it is exported. |
| class | [**UnexpectedException**](http://docs.google.com/java/rmi/UnexpectedException.html)            An UnexpectedException is thrown if the client of a remote method call receives, as a result of the call, a checked exception that is not among the checked exception types declared in the throws clause of the method in the remote interface. |
| class | [**UnmarshalException**](http://docs.google.com/java/rmi/UnmarshalException.html)            An UnmarshalException can be thrown while unmarshalling the parameters or results of a remote method call if any of the following conditions occur: if an exception occurs while unmarshalling the call header if the protocol for the return value is invalid if a java.io.IOException occurs unmarshalling parameters (on the server side) or the return value (on the client side). |

| Methods in [java.rmi](http://docs.google.com/java/rmi/package-summary.html) that throw [IOException](http://docs.google.com/java/io/IOException.html) | |
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| [T](http://docs.google.com/java/rmi/MarshalledObject.html) | **MarshalledObject.**[**get**](http://docs.google.com/java/rmi/MarshalledObject.html#get())()            Returns a new copy of the contained marshalledobject. |

| Constructors in [java.rmi](http://docs.google.com/java/rmi/package-summary.html) that throw [IOException](http://docs.google.com/java/io/IOException.html) | |
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| [**MarshalledObject**](http://docs.google.com/java/rmi/MarshalledObject.html#MarshalledObject(T))([T](http://docs.google.com/java/rmi/MarshalledObject.html) obj)            Creates a new MarshalledObject that contains the serialized representation of the current state of the supplied object. |

| Uses of [IOException](http://docs.google.com/java/io/IOException.html) in [java.rmi.activation](http://docs.google.com/java/rmi/activation/package-summary.html) | |
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| Subclasses of [IOException](http://docs.google.com/java/io/IOException.html) in [java.rmi.activation](http://docs.google.com/java/rmi/activation/package-summary.html) | |
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| class | [**ActivateFailedException**](http://docs.google.com/java/rmi/activation/ActivateFailedException.html)            This exception is thrown by the RMI runtime when activation fails during a remote call to an activatable object. |

| Uses of [IOException](http://docs.google.com/java/io/IOException.html) in [java.rmi.server](http://docs.google.com/java/rmi/server/package-summary.html) | |
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| Subclasses of [IOException](http://docs.google.com/java/io/IOException.html) in [java.rmi.server](http://docs.google.com/java/rmi/server/package-summary.html) | |
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| class | [**ExportException**](http://docs.google.com/java/rmi/server/ExportException.html)            An ExportException is a RemoteException thrown if an attempt to export a remote object fails. |
| class | [**SkeletonMismatchException**](http://docs.google.com/java/rmi/server/SkeletonMismatchException.html)  **Deprecated.** *no replacement. Skeletons are no longer required for remote method calls in the Java 2 platform v1.2 and greater.* |
| class | [**SkeletonNotFoundException**](http://docs.google.com/java/rmi/server/SkeletonNotFoundException.html)  **Deprecated.** *no replacement. Skeletons are no longer required for remote method calls in the Java 2 platform v1.2 and greater.* |
| class | [**SocketSecurityException**](http://docs.google.com/java/rmi/server/SocketSecurityException.html)            An obsolete subclass of [ExportException](http://docs.google.com/java/rmi/server/ExportException.html). |

| Methods in [java.rmi.server](http://docs.google.com/java/rmi/server/package-summary.html) that throw [IOException](http://docs.google.com/java/io/IOException.html) | |
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| [ServerSocket](http://docs.google.com/java/net/ServerSocket.html) | **RMIServerSocketFactory.**[**createServerSocket**](http://docs.google.com/java/rmi/server/RMIServerSocketFactory.html#createServerSocket(int))(int port)            Create a server socket on the specified port (port 0 indicates an anonymous port). |
| abstract  [ServerSocket](http://docs.google.com/java/net/ServerSocket.html) | **RMISocketFactory.**[**createServerSocket**](http://docs.google.com/java/rmi/server/RMISocketFactory.html#createServerSocket(int))(int port)            Create a server socket on the specified port (port 0 indicates an anonymous port). |
| abstract  [Socket](http://docs.google.com/java/net/Socket.html) | **RMISocketFactory.**[**createSocket**](http://docs.google.com/java/rmi/server/RMISocketFactory.html#createSocket(java.lang.String,%20int))([String](http://docs.google.com/java/lang/String.html) host, int port)            Creates a client socket connected to the specified host and port. |
| [Socket](http://docs.google.com/java/net/Socket.html) | **RMIClientSocketFactory.**[**createSocket**](http://docs.google.com/java/rmi/server/RMIClientSocketFactory.html#createSocket(java.lang.String,%20int))([String](http://docs.google.com/java/lang/String.html) host, int port)            Create a client socket connected to the specified host and port. |
| void | **RemoteCall.**[**done**](http://docs.google.com/java/rmi/server/RemoteCall.html#done())()  **Deprecated.** *no replacement* |
| [ObjectInput](http://docs.google.com/java/io/ObjectInput.html) | **RemoteCall.**[**getInputStream**](http://docs.google.com/java/rmi/server/RemoteCall.html#getInputStream())()  **Deprecated.** *no replacement* |
| [ObjectOutput](http://docs.google.com/java/io/ObjectOutput.html) | **RemoteCall.**[**getOutputStream**](http://docs.google.com/java/rmi/server/RemoteCall.html#getOutputStream())()  **Deprecated.** *no replacement* |
| [ObjectOutput](http://docs.google.com/java/io/ObjectOutput.html) | **RemoteCall.**[**getResultStream**](http://docs.google.com/java/rmi/server/RemoteCall.html#getResultStream(boolean))(boolean success)  **Deprecated.** *no replacement* |
| static [UID](http://docs.google.com/java/rmi/server/UID.html) | **UID.**[**read**](http://docs.google.com/java/rmi/server/UID.html#read(java.io.DataInput))([DataInput](http://docs.google.com/java/io/DataInput.html) in)            Constructs and returns a new UID instance by unmarshalling a binary representation from an DataInput instance. |
| static [ObjID](http://docs.google.com/java/rmi/server/ObjID.html) | **ObjID.**[**read**](http://docs.google.com/java/rmi/server/ObjID.html#read(java.io.ObjectInput))([ObjectInput](http://docs.google.com/java/io/ObjectInput.html) in)            Constructs and returns a new ObjID instance by unmarshalling a binary representation from an ObjectInput instance. |
| void | **RemoteCall.**[**releaseInputStream**](http://docs.google.com/java/rmi/server/RemoteCall.html#releaseInputStream())()  **Deprecated.** *no replacement* |
| void | **RemoteCall.**[**releaseOutputStream**](http://docs.google.com/java/rmi/server/RemoteCall.html#releaseOutputStream())()  **Deprecated.** *no replacement* |
| static void | **RMISocketFactory.**[**setSocketFactory**](http://docs.google.com/java/rmi/server/RMISocketFactory.html#setSocketFactory(java.rmi.server.RMISocketFactory))([RMISocketFactory](http://docs.google.com/java/rmi/server/RMISocketFactory.html) fac)            Set the global socket factory from which RMI gets sockets (if the remote object is not associated with a specific client and/or server socket factory). |
| void | **UID.**[**write**](http://docs.google.com/java/rmi/server/UID.html#write(java.io.DataOutput))([DataOutput](http://docs.google.com/java/io/DataOutput.html) out)            Marshals a binary representation of this UID to a DataOutput instance. |
| void | **ObjID.**[**write**](http://docs.google.com/java/rmi/server/ObjID.html#write(java.io.ObjectOutput))([ObjectOutput](http://docs.google.com/java/io/ObjectOutput.html) out)            Marshals a binary representation of this ObjID to an ObjectOutput instance. |

| Uses of [IOException](http://docs.google.com/java/io/IOException.html) in [java.security](http://docs.google.com/java/security/package-summary.html) | |
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| Methods in [java.security](http://docs.google.com/java/security/package-summary.html) that throw [IOException](http://docs.google.com/java/io/IOException.html) | |
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| void | **Certificate.**[**decode**](http://docs.google.com/java/security/Certificate.html#decode(java.io.InputStream))([InputStream](http://docs.google.com/java/io/InputStream.html) stream)  **Deprecated.** Decodes a certificate from an input stream. |
| void | **Certificate.**[**encode**](http://docs.google.com/java/security/Certificate.html#encode(java.io.OutputStream))([OutputStream](http://docs.google.com/java/io/OutputStream.html) stream)  **Deprecated.** Encodes the certificate to an output stream in a format that can be decoded by the decode method. |
| protected abstract  byte[] | **AlgorithmParametersSpi.**[**engineGetEncoded**](http://docs.google.com/java/security/AlgorithmParametersSpi.html#engineGetEncoded())()            Returns the parameters in their primary encoding format. |
| protected abstract  byte[] | **AlgorithmParametersSpi.**[**engineGetEncoded**](http://docs.google.com/java/security/AlgorithmParametersSpi.html#engineGetEncoded(java.lang.String))([String](http://docs.google.com/java/lang/String.html) format)            Returns the parameters encoded in the specified format. |
| protected abstract  void | **AlgorithmParametersSpi.**[**engineInit**](http://docs.google.com/java/security/AlgorithmParametersSpi.html#engineInit(byte%5B%5D))(byte[] params)            Imports the specified parameters and decodes them according to the primary decoding format for parameters. |
| protected abstract  void | **AlgorithmParametersSpi.**[**engineInit**](http://docs.google.com/java/security/AlgorithmParametersSpi.html#engineInit(byte%5B%5D,%20java.lang.String))(byte[] params, [String](http://docs.google.com/java/lang/String.html) format)            Imports the parameters from params and decodes them according to the specified decoding format. |
| abstract  void | **KeyStoreSpi.**[**engineLoad**](http://docs.google.com/java/security/KeyStoreSpi.html#engineLoad(java.io.InputStream,%20char%5B%5D))([InputStream](http://docs.google.com/java/io/InputStream.html) stream, char[] password)            Loads the keystore from the given input stream. |
| void | **KeyStoreSpi.**[**engineLoad**](http://docs.google.com/java/security/KeyStoreSpi.html#engineLoad(java.security.KeyStore.LoadStoreParameter))([KeyStore.LoadStoreParameter](http://docs.google.com/java/security/KeyStore.LoadStoreParameter.html) param)            Loads the keystore using the given KeyStore.LoadStoreParameter. |
| void | **KeyStoreSpi.**[**engineStore**](http://docs.google.com/java/security/KeyStoreSpi.html#engineStore(java.security.KeyStore.LoadStoreParameter))([KeyStore.LoadStoreParameter](http://docs.google.com/java/security/KeyStore.LoadStoreParameter.html) param)            Stores this keystore using the given KeyStore.LoadStoreParmeter. |
| abstract  void | **KeyStoreSpi.**[**engineStore**](http://docs.google.com/java/security/KeyStoreSpi.html#engineStore(java.io.OutputStream,%20char%5B%5D))([OutputStream](http://docs.google.com/java/io/OutputStream.html) stream, char[] password)            Stores this keystore to the given output stream, and protects its integrity with the given password. |
| byte[] | **AlgorithmParameters.**[**getEncoded**](http://docs.google.com/java/security/AlgorithmParameters.html#getEncoded())()            Returns the parameters in their primary encoding format. |
| byte[] | **AlgorithmParameters.**[**getEncoded**](http://docs.google.com/java/security/AlgorithmParameters.html#getEncoded(java.lang.String))([String](http://docs.google.com/java/lang/String.html) format)            Returns the parameters encoded in the specified scheme. |
| [Object](http://docs.google.com/java/lang/Object.html) | **SignedObject.**[**getObject**](http://docs.google.com/java/security/SignedObject.html#getObject())()            Retrieves the encapsulated object. |
| void | **AlgorithmParameters.**[**init**](http://docs.google.com/java/security/AlgorithmParameters.html#init(byte%5B%5D))(byte[] params)            Imports the specified parameters and decodes them according to the primary decoding format for parameters. |
| void | **AlgorithmParameters.**[**init**](http://docs.google.com/java/security/AlgorithmParameters.html#init(byte%5B%5D,%20java.lang.String))(byte[] params, [String](http://docs.google.com/java/lang/String.html) format)            Imports the parameters from params and decodes them according to the specified decoding scheme. |
| void | **Provider.**[**load**](http://docs.google.com/java/security/Provider.html#load(java.io.InputStream))([InputStream](http://docs.google.com/java/io/InputStream.html) inStream)            Reads a property list (key and element pairs) from the input stream. |
| void | **KeyStore.**[**load**](http://docs.google.com/java/security/KeyStore.html#load(java.io.InputStream,%20char%5B%5D))([InputStream](http://docs.google.com/java/io/InputStream.html) stream, char[] password)            Loads this KeyStore from the given input stream. |
| void | **KeyStore.**[**load**](http://docs.google.com/java/security/KeyStore.html#load(java.security.KeyStore.LoadStoreParameter))([KeyStore.LoadStoreParameter](http://docs.google.com/java/security/KeyStore.LoadStoreParameter.html) param)            Loads this keystore using the given LoadStoreParameter. |
| int | **DigestInputStream.**[**read**](http://docs.google.com/java/security/DigestInputStream.html#read())()            Reads a byte, and updates the message digest (if the digest function is on). |
| int | **DigestInputStream.**[**read**](http://docs.google.com/java/security/DigestInputStream.html#read(byte%5B%5D,%20int,%20int))(byte[] b, int off, int len)            Reads into a byte array, and updates the message digest (if the digest function is on). |
| void | **KeyStore.**[**store**](http://docs.google.com/java/security/KeyStore.html#store(java.security.KeyStore.LoadStoreParameter))([KeyStore.LoadStoreParameter](http://docs.google.com/java/security/KeyStore.LoadStoreParameter.html) param)            Stores this keystore using the given LoadStoreParameter. |
| void | **KeyStore.**[**store**](http://docs.google.com/java/security/KeyStore.html#store(java.io.OutputStream,%20char%5B%5D))([OutputStream](http://docs.google.com/java/io/OutputStream.html) stream, char[] password)            Stores this keystore to the given output stream, and protects its integrity with the given password. |
| void | **DigestOutputStream.**[**write**](http://docs.google.com/java/security/DigestOutputStream.html#write(byte%5B%5D,%20int,%20int))(byte[] b, int off, int len)            Updates the message digest (if the digest function is on) using the specified subarray, and in any case writes the subarray to the output stream. |
| void | **DigestOutputStream.**[**write**](http://docs.google.com/java/security/DigestOutputStream.html#write(int))(int b)            Updates the message digest (if the digest function is on) using the specified byte, and in any case writes the byte to the output stream. |

| Constructors in [java.security](http://docs.google.com/java/security/package-summary.html) that throw [IOException](http://docs.google.com/java/io/IOException.html) | |
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| [**SignedObject**](http://docs.google.com/java/security/SignedObject.html#SignedObject(java.io.Serializable,%20java.security.PrivateKey,%20java.security.Signature))([Serializable](http://docs.google.com/java/io/Serializable.html) object, [PrivateKey](http://docs.google.com/java/security/PrivateKey.html) signingKey, [Signature](http://docs.google.com/java/security/Signature.html) signingEngine)            Constructs a SignedObject from any Serializable object. |

| Uses of [IOException](http://docs.google.com/java/io/IOException.html) in [java.security.cert](http://docs.google.com/java/security/cert/package-summary.html) | |
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| Methods in [java.security.cert](http://docs.google.com/java/security/cert/package-summary.html) that throw [IOException](http://docs.google.com/java/io/IOException.html) | |
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| void | **X509CRLSelector.**[**addIssuerName**](http://docs.google.com/java/security/cert/X509CRLSelector.html#addIssuerName(byte%5B%5D))(byte[] name)            Adds a name to the issuerNames criterion. |
| void | **X509CRLSelector.**[**addIssuerName**](http://docs.google.com/java/security/cert/X509CRLSelector.html#addIssuerName(java.lang.String))([String](http://docs.google.com/java/lang/String.html) name)  **Denigrated**, use [X509CRLSelector.addIssuer(X500Principal)](http://docs.google.com/java/security/cert/X509CRLSelector.html#addIssuer(javax.security.auth.x500.X500Principal)) or [X509CRLSelector.addIssuerName(byte[])](http://docs.google.com/java/security/cert/X509CRLSelector.html#addIssuerName(byte%5B%5D)) instead. |
| void | **X509CertSelector.**[**addPathToName**](http://docs.google.com/java/security/cert/X509CertSelector.html#addPathToName(int,%20byte%5B%5D))(int type, byte[] name)            Adds a name to the pathToNames criterion. |
| void | **X509CertSelector.**[**addPathToName**](http://docs.google.com/java/security/cert/X509CertSelector.html#addPathToName(int,%20java.lang.String))(int type, [String](http://docs.google.com/java/lang/String.html) name)            Adds a name to the pathToNames criterion. |
| void | **X509CertSelector.**[**addSubjectAlternativeName**](http://docs.google.com/java/security/cert/X509CertSelector.html#addSubjectAlternativeName(int,%20byte%5B%5D))(int type, byte[] name)            Adds a name to the subjectAlternativeNames criterion. |
| void | **X509CertSelector.**[**addSubjectAlternativeName**](http://docs.google.com/java/security/cert/X509CertSelector.html#addSubjectAlternativeName(int,%20java.lang.String))(int type, [String](http://docs.google.com/java/lang/String.html) name)            Adds a name to the subjectAlternativeNames criterion. |
| byte[] | **X509CertSelector.**[**getIssuerAsBytes**](http://docs.google.com/java/security/cert/X509CertSelector.html#getIssuerAsBytes())()            Returns the issuer criterion as a byte array. |
| byte[] | **X509CertSelector.**[**getSubjectAsBytes**](http://docs.google.com/java/security/cert/X509CertSelector.html#getSubjectAsBytes())()            Returns the subject criterion as a byte array. |
| void | **X509CertSelector.**[**setExtendedKeyUsage**](http://docs.google.com/java/security/cert/X509CertSelector.html#setExtendedKeyUsage(java.util.Set))([Set](http://docs.google.com/java/util/Set.html)<[String](http://docs.google.com/java/lang/String.html)> keyPurposeSet)            Sets the extendedKeyUsage criterion. |
| void | **X509CertSelector.**[**setIssuer**](http://docs.google.com/java/security/cert/X509CertSelector.html#setIssuer(byte%5B%5D))(byte[] issuerDN)            Sets the issuer criterion. |
| void | **X509CertSelector.**[**setIssuer**](http://docs.google.com/java/security/cert/X509CertSelector.html#setIssuer(java.lang.String))([String](http://docs.google.com/java/lang/String.html) issuerDN)  **Denigrated**, use [X509CertSelector.setIssuer(X500Principal)](http://docs.google.com/java/security/cert/X509CertSelector.html#setIssuer(javax.security.auth.x500.X500Principal)) or [X509CertSelector.setIssuer(byte[])](http://docs.google.com/java/security/cert/X509CertSelector.html#setIssuer(byte%5B%5D)) instead. |
| void | **X509CRLSelector.**[**setIssuerNames**](http://docs.google.com/java/security/cert/X509CRLSelector.html#setIssuerNames(java.util.Collection))([Collection](http://docs.google.com/java/util/Collection.html)<?> names)  **Note:** use [X509CRLSelector.setIssuers(Collection)](http://docs.google.com/java/security/cert/X509CRLSelector.html#setIssuers(java.util.Collection)) instead or only specify the byte array form of distinguished names when using this method. |
| void | **X509CertSelector.**[**setNameConstraints**](http://docs.google.com/java/security/cert/X509CertSelector.html#setNameConstraints(byte%5B%5D))(byte[] bytes)            Sets the name constraints criterion. |
| void | **X509CertSelector.**[**setPathToNames**](http://docs.google.com/java/security/cert/X509CertSelector.html#setPathToNames(java.util.Collection))([Collection](http://docs.google.com/java/util/Collection.html)<[List](http://docs.google.com/java/util/List.html)<?>> names)            Sets the pathToNames criterion. |
| void | **X509CertSelector.**[**setPolicy**](http://docs.google.com/java/security/cert/X509CertSelector.html#setPolicy(java.util.Set))([Set](http://docs.google.com/java/util/Set.html)<[String](http://docs.google.com/java/lang/String.html)> certPolicySet)            Sets the policy constraint. |
| void | **X509CertSelector.**[**setSubject**](http://docs.google.com/java/security/cert/X509CertSelector.html#setSubject(byte%5B%5D))(byte[] subjectDN)            Sets the subject criterion. |
| void | **X509CertSelector.**[**setSubject**](http://docs.google.com/java/security/cert/X509CertSelector.html#setSubject(java.lang.String))([String](http://docs.google.com/java/lang/String.html) subjectDN)  **Denigrated**, use [X509CertSelector.setSubject(X500Principal)](http://docs.google.com/java/security/cert/X509CertSelector.html#setSubject(javax.security.auth.x500.X500Principal)) or [X509CertSelector.setSubject(byte[])](http://docs.google.com/java/security/cert/X509CertSelector.html#setSubject(byte%5B%5D)) instead. |
| void | **X509CertSelector.**[**setSubjectAlternativeNames**](http://docs.google.com/java/security/cert/X509CertSelector.html#setSubjectAlternativeNames(java.util.Collection))([Collection](http://docs.google.com/java/util/Collection.html)<[List](http://docs.google.com/java/util/List.html)<?>> names)            Sets the subjectAlternativeNames criterion. |
| void | **X509CertSelector.**[**setSubjectPublicKey**](http://docs.google.com/java/security/cert/X509CertSelector.html#setSubjectPublicKey(byte%5B%5D))(byte[] key)            Sets the subjectPublicKey criterion. |
| void | **X509CertSelector.**[**setSubjectPublicKeyAlgID**](http://docs.google.com/java/security/cert/X509CertSelector.html#setSubjectPublicKeyAlgID(java.lang.String))([String](http://docs.google.com/java/lang/String.html) oid)            Sets the subjectPublicKeyAlgID criterion. |

| Constructors in [java.security.cert](http://docs.google.com/java/security/cert/package-summary.html) that throw [IOException](http://docs.google.com/java/io/IOException.html) | |
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| [**PolicyQualifierInfo**](http://docs.google.com/java/security/cert/PolicyQualifierInfo.html#PolicyQualifierInfo(byte%5B%5D))(byte[] encoded)            Creates an instance of PolicyQualifierInfo from the encoded bytes. |

| Uses of [IOException](http://docs.google.com/java/io/IOException.html) in [java.util](http://docs.google.com/java/util/package-summary.html) | |
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| Subclasses of [IOException](http://docs.google.com/java/io/IOException.html) in [java.util](http://docs.google.com/java/util/package-summary.html) | |
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| class | [**InvalidPropertiesFormatException**](http://docs.google.com/java/util/InvalidPropertiesFormatException.html)            Thrown to indicate that an operation could not complete because the input did not conform to the appropriate XML document type for a collection of properties, as per the [Properties](http://docs.google.com/java/util/Properties.html) specification. |

| Methods in [java.util](http://docs.google.com/java/util/package-summary.html) that return [IOException](http://docs.google.com/java/io/IOException.html) | |
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| [IOException](http://docs.google.com/java/io/IOException.html) | **Scanner.**[**ioException**](http://docs.google.com/java/util/Scanner.html#ioException())()            Returns the IOException last thrown by this Scanner's underlying Readable. |
| [IOException](http://docs.google.com/java/io/IOException.html) | **Formatter.**[**ioException**](http://docs.google.com/java/util/Formatter.html#ioException())()            Returns the IOException last thrown by this formatter's [Appendable](http://docs.google.com/java/lang/Appendable.html). |

| Methods in [java.util](http://docs.google.com/java/util/package-summary.html) that throw [IOException](http://docs.google.com/java/io/IOException.html) | |
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| void | **Properties.**[**load**](http://docs.google.com/java/util/Properties.html#load(java.io.InputStream))([InputStream](http://docs.google.com/java/io/InputStream.html) inStream)            Reads a property list (key and element pairs) from the input byte stream. |
| void | **Properties.**[**load**](http://docs.google.com/java/util/Properties.html#load(java.io.Reader))([Reader](http://docs.google.com/java/io/Reader.html) reader)            Reads a property list (key and element pairs) from the input character stream in a simple line-oriented format. |
| void | **Properties.**[**loadFromXML**](http://docs.google.com/java/util/Properties.html#loadFromXML(java.io.InputStream))([InputStream](http://docs.google.com/java/io/InputStream.html) in)            Loads all of the properties represented by the XML document on the specified input stream into this properties table. |
| [ResourceBundle](http://docs.google.com/java/util/ResourceBundle.html) | **ResourceBundle.Control.**[**newBundle**](http://docs.google.com/java/util/ResourceBundle.Control.html#newBundle(java.lang.String,%20java.util.Locale,%20java.lang.String,%20java.lang.ClassLoader,%20boolean))([String](http://docs.google.com/java/lang/String.html) baseName, [Locale](http://docs.google.com/java/util/Locale.html) locale, [String](http://docs.google.com/java/lang/String.html) format, [ClassLoader](http://docs.google.com/java/lang/ClassLoader.html) loader, boolean reload)            Instantiates a resource bundle for the given bundle name of the given format and locale, using the given class loader if necessary. |
| void | **Properties.**[**store**](http://docs.google.com/java/util/Properties.html#store(java.io.OutputStream,%20java.lang.String))([OutputStream](http://docs.google.com/java/io/OutputStream.html) out, [String](http://docs.google.com/java/lang/String.html) comments)            Writes this property list (key and element pairs) in this Properties table to the output stream in a format suitable for loading into a Properties table using the [load(InputStream)](http://docs.google.com/java/util/Properties.html#load(java.io.InputStream)) method. |
| void | **Properties.**[**store**](http://docs.google.com/java/util/Properties.html#store(java.io.Writer,%20java.lang.String))([Writer](http://docs.google.com/java/io/Writer.html) writer, [String](http://docs.google.com/java/lang/String.html) comments)            Writes this property list (key and element pairs) in this Properties table to the output character stream in a format suitable for using the [load(Reader)](http://docs.google.com/java/util/Properties.html#load(java.io.Reader)) method. |
| void | **Properties.**[**storeToXML**](http://docs.google.com/java/util/Properties.html#storeToXML(java.io.OutputStream,%20java.lang.String))([OutputStream](http://docs.google.com/java/io/OutputStream.html) os, [String](http://docs.google.com/java/lang/String.html) comment)            Emits an XML document representing all of the properties contained in this table. |
| void | **Properties.**[**storeToXML**](http://docs.google.com/java/util/Properties.html#storeToXML(java.io.OutputStream,%20java.lang.String,%20java.lang.String))([OutputStream](http://docs.google.com/java/io/OutputStream.html) os, [String](http://docs.google.com/java/lang/String.html) comment, [String](http://docs.google.com/java/lang/String.html) encoding)            Emits an XML document representing all of the properties contained in this table, using the specified encoding. |

| Constructors in [java.util](http://docs.google.com/java/util/package-summary.html) that throw [IOException](http://docs.google.com/java/io/IOException.html) | |
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| [**PropertyResourceBundle**](http://docs.google.com/java/util/PropertyResourceBundle.html#PropertyResourceBundle(java.io.InputStream))([InputStream](http://docs.google.com/java/io/InputStream.html) stream)            Creates a property resource bundle from an [InputStream](http://docs.google.com/java/io/InputStream.html). |
| [**PropertyResourceBundle**](http://docs.google.com/java/util/PropertyResourceBundle.html#PropertyResourceBundle(java.io.Reader))([Reader](http://docs.google.com/java/io/Reader.html) reader)            Creates a property resource bundle from a [Reader](http://docs.google.com/java/io/Reader.html). |

| Uses of [IOException](http://docs.google.com/java/io/IOException.html) in [java.util.jar](http://docs.google.com/java/util/jar/package-summary.html) | |
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| Subclasses of [IOException](http://docs.google.com/java/io/IOException.html) in [java.util.jar](http://docs.google.com/java/util/jar/package-summary.html) | |
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| class | [**JarException**](http://docs.google.com/java/util/jar/JarException.html)            Signals that an error of some sort has occurred while reading from or writing to a JAR file. |

| Methods in [java.util.jar](http://docs.google.com/java/util/jar/package-summary.html) that throw [IOException](http://docs.google.com/java/io/IOException.html) | |
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| [Attributes](http://docs.google.com/java/util/jar/Attributes.html) | **JarEntry.**[**getAttributes**](http://docs.google.com/java/util/jar/JarEntry.html#getAttributes())()            Returns the Manifest Attributes for this entry, or null if none. |
| [InputStream](http://docs.google.com/java/io/InputStream.html) | **JarFile.**[**getInputStream**](http://docs.google.com/java/util/jar/JarFile.html#getInputStream(java.util.zip.ZipEntry))([ZipEntry](http://docs.google.com/java/util/zip/ZipEntry.html) ze)            Returns an input stream for reading the contents of the specified zip file entry. |
| [Manifest](http://docs.google.com/java/util/jar/Manifest.html) | **JarFile.**[**getManifest**](http://docs.google.com/java/util/jar/JarFile.html#getManifest())()            Returns the jar file manifest, or null if none. |
| [ZipEntry](http://docs.google.com/java/util/zip/ZipEntry.html) | **JarInputStream.**[**getNextEntry**](http://docs.google.com/java/util/jar/JarInputStream.html#getNextEntry())()            Reads the next ZIP file entry and positions the stream at the beginning of the entry data. |
| [JarEntry](http://docs.google.com/java/util/jar/JarEntry.html) | **JarInputStream.**[**getNextJarEntry**](http://docs.google.com/java/util/jar/JarInputStream.html#getNextJarEntry())()            Reads the next JAR file entry and positions the stream at the beginning of the entry data. |
| void | **Pack200.Packer.**[**pack**](http://docs.google.com/java/util/jar/Pack200.Packer.html#pack(java.util.jar.JarFile,%20java.io.OutputStream))([JarFile](http://docs.google.com/java/util/jar/JarFile.html) in, [OutputStream](http://docs.google.com/java/io/OutputStream.html) out)            Takes a JarFile and converts it into a Pack200 archive. |
| void | **Pack200.Packer.**[**pack**](http://docs.google.com/java/util/jar/Pack200.Packer.html#pack(java.util.jar.JarInputStream,%20java.io.OutputStream))([JarInputStream](http://docs.google.com/java/util/jar/JarInputStream.html) in, [OutputStream](http://docs.google.com/java/io/OutputStream.html) out)            Takes a JarInputStream and converts it into a Pack200 archive. |
| void | **JarOutputStream.**[**putNextEntry**](http://docs.google.com/java/util/jar/JarOutputStream.html#putNextEntry(java.util.zip.ZipEntry))([ZipEntry](http://docs.google.com/java/util/zip/ZipEntry.html) ze)            Begins writing a new JAR file entry and positions the stream to the start of the entry data. |
| int | **JarInputStream.**[**read**](http://docs.google.com/java/util/jar/JarInputStream.html#read(byte%5B%5D,%20int,%20int))(byte[] b, int off, int len)            Reads from the current JAR file entry into an array of bytes. |
| void | **Manifest.**[**read**](http://docs.google.com/java/util/jar/Manifest.html#read(java.io.InputStream))([InputStream](http://docs.google.com/java/io/InputStream.html) is)            Reads the Manifest from the specified InputStream. |
| void | **Pack200.Unpacker.**[**unpack**](http://docs.google.com/java/util/jar/Pack200.Unpacker.html#unpack(java.io.File,%20java.util.jar.JarOutputStream))([File](http://docs.google.com/java/io/File.html) in, [JarOutputStream](http://docs.google.com/java/util/jar/JarOutputStream.html) out)            Read a Pack200 archive, and write the encoded JAR to a JarOutputStream. |
| void | **Pack200.Unpacker.**[**unpack**](http://docs.google.com/java/util/jar/Pack200.Unpacker.html#unpack(java.io.InputStream,%20java.util.jar.JarOutputStream))([InputStream](http://docs.google.com/java/io/InputStream.html) in, [JarOutputStream](http://docs.google.com/java/util/jar/JarOutputStream.html) out)            Read a Pack200 archive, and write the encoded JAR to a JarOutputStream. |
| void | **Manifest.**[**write**](http://docs.google.com/java/util/jar/Manifest.html#write(java.io.OutputStream))([OutputStream](http://docs.google.com/java/io/OutputStream.html) out)            Writes the Manifest to the specified OutputStream. |

| Constructors in [java.util.jar](http://docs.google.com/java/util/jar/package-summary.html) that throw [IOException](http://docs.google.com/java/io/IOException.html) | |
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| [**JarFile**](http://docs.google.com/java/util/jar/JarFile.html#JarFile(java.io.File))([File](http://docs.google.com/java/io/File.html) file)            Creates a new JarFile to read from the specified File object. |
| [**JarFile**](http://docs.google.com/java/util/jar/JarFile.html#JarFile(java.io.File,%20boolean))([File](http://docs.google.com/java/io/File.html) file, boolean verify)            Creates a new JarFile to read from the specified File object. |
| [**JarFile**](http://docs.google.com/java/util/jar/JarFile.html#JarFile(java.io.File,%20boolean,%20int))([File](http://docs.google.com/java/io/File.html) file, boolean verify, int mode)            Creates a new JarFile to read from the specified File object in the specified mode. |
| [**JarFile**](http://docs.google.com/java/util/jar/JarFile.html#JarFile(java.lang.String))([String](http://docs.google.com/java/lang/String.html) name)            Creates a new JarFile to read from the specified file name. |
| [**JarFile**](http://docs.google.com/java/util/jar/JarFile.html#JarFile(java.lang.String,%20boolean))([String](http://docs.google.com/java/lang/String.html) name, boolean verify)            Creates a new JarFile to read from the specified file name. |
| [**JarInputStream**](http://docs.google.com/java/util/jar/JarInputStream.html#JarInputStream(java.io.InputStream))([InputStream](http://docs.google.com/java/io/InputStream.html) in)            Creates a new JarInputStream and reads the optional manifest. |
| [**JarInputStream**](http://docs.google.com/java/util/jar/JarInputStream.html#JarInputStream(java.io.InputStream,%20boolean))([InputStream](http://docs.google.com/java/io/InputStream.html) in, boolean verify)            Creates a new JarInputStream and reads the optional manifest. |
| [**JarOutputStream**](http://docs.google.com/java/util/jar/JarOutputStream.html#JarOutputStream(java.io.OutputStream))([OutputStream](http://docs.google.com/java/io/OutputStream.html) out)            Creates a new JarOutputStream with no manifest. |
| [**JarOutputStream**](http://docs.google.com/java/util/jar/JarOutputStream.html#JarOutputStream(java.io.OutputStream,%20java.util.jar.Manifest))([OutputStream](http://docs.google.com/java/io/OutputStream.html) out, [Manifest](http://docs.google.com/java/util/jar/Manifest.html) man)            Creates a new JarOutputStream with the specified Manifest. |
| [**Manifest**](http://docs.google.com/java/util/jar/Manifest.html#Manifest(java.io.InputStream))([InputStream](http://docs.google.com/java/io/InputStream.html) is)            Constructs a new Manifest from the specified input stream. |

| Uses of [IOException](http://docs.google.com/java/io/IOException.html) in [java.util.logging](http://docs.google.com/java/util/logging/package-summary.html) | |
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| Methods in [java.util.logging](http://docs.google.com/java/util/logging/package-summary.html) that throw [IOException](http://docs.google.com/java/io/IOException.html) | |
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| void | **LogManager.**[**readConfiguration**](http://docs.google.com/java/util/logging/LogManager.html#readConfiguration())()            Reinitialize the logging properties and reread the logging configuration. |
| void | **LogManager.**[**readConfiguration**](http://docs.google.com/java/util/logging/LogManager.html#readConfiguration(java.io.InputStream))([InputStream](http://docs.google.com/java/io/InputStream.html) ins)            Reinitialize the logging properties and reread the logging configuration from the given stream, which should be in java.util.Properties format. |

| Constructors in [java.util.logging](http://docs.google.com/java/util/logging/package-summary.html) that throw [IOException](http://docs.google.com/java/io/IOException.html) | |
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| [**FileHandler**](http://docs.google.com/java/util/logging/FileHandler.html#FileHandler())()            Construct a default FileHandler. |
| [**FileHandler**](http://docs.google.com/java/util/logging/FileHandler.html#FileHandler(java.lang.String))([String](http://docs.google.com/java/lang/String.html) pattern)            Initialize a FileHandler to write to the given filename. |
| [**FileHandler**](http://docs.google.com/java/util/logging/FileHandler.html#FileHandler(java.lang.String,%20boolean))([String](http://docs.google.com/java/lang/String.html) pattern, boolean append)            Initialize a FileHandler to write to the given filename, with optional append. |
| [**FileHandler**](http://docs.google.com/java/util/logging/FileHandler.html#FileHandler(java.lang.String,%20int,%20int))([String](http://docs.google.com/java/lang/String.html) pattern, int limit, int count)            Initialize a FileHandler to write to a set of files. |
| [**FileHandler**](http://docs.google.com/java/util/logging/FileHandler.html#FileHandler(java.lang.String,%20int,%20int,%20boolean))([String](http://docs.google.com/java/lang/String.html) pattern, int limit, int count, boolean append)            Initialize a FileHandler to write to a set of files with optional append. |
| [**SocketHandler**](http://docs.google.com/java/util/logging/SocketHandler.html#SocketHandler())()            Create a SocketHandler, using only LogManager properties (or their defaults). |
| [**SocketHandler**](http://docs.google.com/java/util/logging/SocketHandler.html#SocketHandler(java.lang.String,%20int))([String](http://docs.google.com/java/lang/String.html) host, int port)            Construct a SocketHandler using a specified host and port. |

| Uses of [IOException](http://docs.google.com/java/io/IOException.html) in [java.util.prefs](http://docs.google.com/java/util/prefs/package-summary.html) | |
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| Methods in [java.util.prefs](http://docs.google.com/java/util/prefs/package-summary.html) that throw [IOException](http://docs.google.com/java/io/IOException.html) | |
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| void | **AbstractPreferences.**[**exportNode**](http://docs.google.com/java/util/prefs/AbstractPreferences.html#exportNode(java.io.OutputStream))([OutputStream](http://docs.google.com/java/io/OutputStream.html) os)            Implements the exportNode method as per the specification in [Preferences.exportNode(OutputStream)](http://docs.google.com/java/util/prefs/Preferences.html#exportNode(java.io.OutputStream)). |
| abstract  void | **Preferences.**[**exportNode**](http://docs.google.com/java/util/prefs/Preferences.html#exportNode(java.io.OutputStream))([OutputStream](http://docs.google.com/java/io/OutputStream.html) os)            Emits on the specified output stream an XML document representing all of the preferences contained in this node (but not its descendants). |
| void | **AbstractPreferences.**[**exportSubtree**](http://docs.google.com/java/util/prefs/AbstractPreferences.html#exportSubtree(java.io.OutputStream))([OutputStream](http://docs.google.com/java/io/OutputStream.html) os)            Implements the exportSubtree method as per the specification in [Preferences.exportSubtree(OutputStream)](http://docs.google.com/java/util/prefs/Preferences.html#exportSubtree(java.io.OutputStream)). |
| abstract  void | **Preferences.**[**exportSubtree**](http://docs.google.com/java/util/prefs/Preferences.html#exportSubtree(java.io.OutputStream))([OutputStream](http://docs.google.com/java/io/OutputStream.html) os)            Emits an XML document representing all of the preferences contained in this node and all of its descendants. |
| static void | **Preferences.**[**importPreferences**](http://docs.google.com/java/util/prefs/Preferences.html#importPreferences(java.io.InputStream))([InputStream](http://docs.google.com/java/io/InputStream.html) is)            Imports all of the preferences represented by the XML document on the specified input stream. |

| Uses of [IOException](http://docs.google.com/java/io/IOException.html) in [java.util.zip](http://docs.google.com/java/util/zip/package-summary.html) | |
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| Subclasses of [IOException](http://docs.google.com/java/io/IOException.html) in [java.util.zip](http://docs.google.com/java/util/zip/package-summary.html) | |
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| class | [**ZipException**](http://docs.google.com/java/util/zip/ZipException.html)            Signals that a Zip exception of some sort has occurred. |

| Methods in [java.util.zip](http://docs.google.com/java/util/zip/package-summary.html) that throw [IOException](http://docs.google.com/java/io/IOException.html) | |
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| int | **DeflaterInputStream.**[**available**](http://docs.google.com/java/util/zip/DeflaterInputStream.html#available())()            Returns 0 after EOF has been reached, otherwise always return 1. |
| int | **InflaterInputStream.**[**available**](http://docs.google.com/java/util/zip/InflaterInputStream.html#available())()            Returns 0 after EOF has been reached, otherwise always return 1. |
| int | **ZipInputStream.**[**available**](http://docs.google.com/java/util/zip/ZipInputStream.html#available())()            Returns 0 after EOF has reached for the current entry data, otherwise always return 1. |
| void | **InflaterOutputStream.**[**close**](http://docs.google.com/java/util/zip/InflaterOutputStream.html#close())()            Writes any remaining uncompressed data to the output stream and closes the underlying output stream. |
| void | **GZIPInputStream.**[**close**](http://docs.google.com/java/util/zip/GZIPInputStream.html#close())()            Closes this input stream and releases any system resources associated with the stream. |
| void | **DeflaterInputStream.**[**close**](http://docs.google.com/java/util/zip/DeflaterInputStream.html#close())()            Closes this input stream and its underlying input stream, discarding any pending uncompressed data. |
| void | **DeflaterOutputStream.**[**close**](http://docs.google.com/java/util/zip/DeflaterOutputStream.html#close())()            Writes remaining compressed data to the output stream and closes the underlying stream. |
| void | **ZipOutputStream.**[**close**](http://docs.google.com/java/util/zip/ZipOutputStream.html#close())()            Closes the ZIP output stream as well as the stream being filtered. |
| void | **InflaterInputStream.**[**close**](http://docs.google.com/java/util/zip/InflaterInputStream.html#close())()            Closes this input stream and releases any system resources associated with the stream. |
| void | **ZipInputStream.**[**close**](http://docs.google.com/java/util/zip/ZipInputStream.html#close())()            Closes this input stream and releases any system resources associated with the stream. |
| void | **ZipFile.**[**close**](http://docs.google.com/java/util/zip/ZipFile.html#close())()            Closes the ZIP file. |
| void | **ZipOutputStream.**[**closeEntry**](http://docs.google.com/java/util/zip/ZipOutputStream.html#closeEntry())()            Closes the current ZIP entry and positions the stream for writing the next entry. |
| void | **ZipInputStream.**[**closeEntry**](http://docs.google.com/java/util/zip/ZipInputStream.html#closeEntry())()            Closes the current ZIP entry and positions the stream for reading the next entry. |
| protected  void | **DeflaterOutputStream.**[**deflate**](http://docs.google.com/java/util/zip/DeflaterOutputStream.html#deflate())()            Writes next block of compressed data to the output stream. |
| protected  void | **InflaterInputStream.**[**fill**](http://docs.google.com/java/util/zip/InflaterInputStream.html#fill())()            Fills input buffer with more data to decompress. |
| protected  void | **ZipFile.**[**finalize**](http://docs.google.com/java/util/zip/ZipFile.html#finalize())()            Ensures that the close method of this ZIP file is called when there are no more references to it. |
| void | **InflaterOutputStream.**[**finish**](http://docs.google.com/java/util/zip/InflaterOutputStream.html#finish())()            Finishes writing uncompressed data to the output stream without closing the underlying stream. |
| void | **GZIPOutputStream.**[**finish**](http://docs.google.com/java/util/zip/GZIPOutputStream.html#finish())()            Finishes writing compressed data to the output stream without closing the underlying stream. |
| void | **DeflaterOutputStream.**[**finish**](http://docs.google.com/java/util/zip/DeflaterOutputStream.html#finish())()            Finishes writing compressed data to the output stream without closing the underlying stream. |
| void | **ZipOutputStream.**[**finish**](http://docs.google.com/java/util/zip/ZipOutputStream.html#finish())()            Finishes writing the contents of the ZIP output stream without closing the underlying stream. |
| void | **InflaterOutputStream.**[**flush**](http://docs.google.com/java/util/zip/InflaterOutputStream.html#flush())()            Flushes this output stream, forcing any pending buffered output bytes to be written. |
| [InputStream](http://docs.google.com/java/io/InputStream.html) | **ZipFile.**[**getInputStream**](http://docs.google.com/java/util/zip/ZipFile.html#getInputStream(java.util.zip.ZipEntry))([ZipEntry](http://docs.google.com/java/util/zip/ZipEntry.html) entry)            Returns an input stream for reading the contents of the specified zip file entry. |
| [ZipEntry](http://docs.google.com/java/util/zip/ZipEntry.html) | **ZipInputStream.**[**getNextEntry**](http://docs.google.com/java/util/zip/ZipInputStream.html#getNextEntry())()            Reads the next ZIP file entry and positions the stream at the beginning of the entry data. |
| void | **ZipOutputStream.**[**putNextEntry**](http://docs.google.com/java/util/zip/ZipOutputStream.html#putNextEntry(java.util.zip.ZipEntry))([ZipEntry](http://docs.google.com/java/util/zip/ZipEntry.html) e)            Begins writing a new ZIP file entry and positions the stream to the start of the entry data. |
| int | **DeflaterInputStream.**[**read**](http://docs.google.com/java/util/zip/DeflaterInputStream.html#read())()            Reads a single byte of compressed data from the input stream. |
| int | **CheckedInputStream.**[**read**](http://docs.google.com/java/util/zip/CheckedInputStream.html#read())()            Reads a byte. |
| int | **InflaterInputStream.**[**read**](http://docs.google.com/java/util/zip/InflaterInputStream.html#read())()            Reads a byte of uncompressed data. |
| int | **GZIPInputStream.**[**read**](http://docs.google.com/java/util/zip/GZIPInputStream.html#read(byte%5B%5D,%20int,%20int))(byte[] buf, int off, int len)            Reads uncompressed data into an array of bytes. |
| int | **DeflaterInputStream.**[**read**](http://docs.google.com/java/util/zip/DeflaterInputStream.html#read(byte%5B%5D,%20int,%20int))(byte[] b, int off, int len)            Reads compressed data into a byte array. |
| int | **CheckedInputStream.**[**read**](http://docs.google.com/java/util/zip/CheckedInputStream.html#read(byte%5B%5D,%20int,%20int))(byte[] buf, int off, int len)            Reads into an array of bytes. |
| int | **InflaterInputStream.**[**read**](http://docs.google.com/java/util/zip/InflaterInputStream.html#read(byte%5B%5D,%20int,%20int))(byte[] b, int off, int len)            Reads uncompressed data into an array of bytes. |
| int | **ZipInputStream.**[**read**](http://docs.google.com/java/util/zip/ZipInputStream.html#read(byte%5B%5D,%20int,%20int))(byte[] b, int off, int len)            Reads from the current ZIP entry into an array of bytes. |
| void | **DeflaterInputStream.**[**reset**](http://docs.google.com/java/util/zip/DeflaterInputStream.html#reset())()  *This operation is not supported*. |
| void | **InflaterInputStream.**[**reset**](http://docs.google.com/java/util/zip/InflaterInputStream.html#reset())()            Repositions this stream to the position at the time the mark method was last called on this input stream. |
| long | **DeflaterInputStream.**[**skip**](http://docs.google.com/java/util/zip/DeflaterInputStream.html#skip(long))(long n)            Skips over and discards data from the input stream. |
| long | **CheckedInputStream.**[**skip**](http://docs.google.com/java/util/zip/CheckedInputStream.html#skip(long))(long n)            Skips specified number of bytes of input. |
| long | **InflaterInputStream.**[**skip**](http://docs.google.com/java/util/zip/InflaterInputStream.html#skip(long))(long n)            Skips specified number of bytes of uncompressed data. |
| long | **ZipInputStream.**[**skip**](http://docs.google.com/java/util/zip/ZipInputStream.html#skip(long))(long n)            Skips specified number of bytes in the current ZIP entry. |
| void | **InflaterOutputStream.**[**write**](http://docs.google.com/java/util/zip/InflaterOutputStream.html#write(byte%5B%5D,%20int,%20int))(byte[] b, int off, int len)            Writes an array of bytes to the uncompressed output stream. |
| void | **GZIPOutputStream.**[**write**](http://docs.google.com/java/util/zip/GZIPOutputStream.html#write(byte%5B%5D,%20int,%20int))(byte[] buf, int off, int len)            Writes array of bytes to the compressed output stream. |
| void | **CheckedOutputStream.**[**write**](http://docs.google.com/java/util/zip/CheckedOutputStream.html#write(byte%5B%5D,%20int,%20int))(byte[] b, int off, int len)            Writes an array of bytes. |
| void | **DeflaterOutputStream.**[**write**](http://docs.google.com/java/util/zip/DeflaterOutputStream.html#write(byte%5B%5D,%20int,%20int))(byte[] b, int off, int len)            Writes an array of bytes to the compressed output stream. |
| void | **ZipOutputStream.**[**write**](http://docs.google.com/java/util/zip/ZipOutputStream.html#write(byte%5B%5D,%20int,%20int))(byte[] b, int off, int len)            Writes an array of bytes to the current ZIP entry data. |
| void | **InflaterOutputStream.**[**write**](http://docs.google.com/java/util/zip/InflaterOutputStream.html#write(int))(int b)            Writes a byte to the uncompressed output stream. |
| void | **CheckedOutputStream.**[**write**](http://docs.google.com/java/util/zip/CheckedOutputStream.html#write(int))(int b)            Writes a byte. |
| void | **DeflaterOutputStream.**[**write**](http://docs.google.com/java/util/zip/DeflaterOutputStream.html#write(int))(int b)            Writes a byte to the compressed output stream. |

| Constructors in [java.util.zip](http://docs.google.com/java/util/zip/package-summary.html) that throw [IOException](http://docs.google.com/java/io/IOException.html) | |
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| [**GZIPInputStream**](http://docs.google.com/java/util/zip/GZIPInputStream.html#GZIPInputStream(java.io.InputStream))([InputStream](http://docs.google.com/java/io/InputStream.html) in)            Creates a new input stream with a default buffer size. |
| [**GZIPInputStream**](http://docs.google.com/java/util/zip/GZIPInputStream.html#GZIPInputStream(java.io.InputStream,%20int))([InputStream](http://docs.google.com/java/io/InputStream.html) in, int size)            Creates a new input stream with the specified buffer size. |
| [**GZIPOutputStream**](http://docs.google.com/java/util/zip/GZIPOutputStream.html#GZIPOutputStream(java.io.OutputStream))([OutputStream](http://docs.google.com/java/io/OutputStream.html) out)            Creates a new output stream with a default buffer size. |
| [**GZIPOutputStream**](http://docs.google.com/java/util/zip/GZIPOutputStream.html#GZIPOutputStream(java.io.OutputStream,%20int))([OutputStream](http://docs.google.com/java/io/OutputStream.html) out, int size)            Creates a new output stream with the specified buffer size. |
| [**ZipFile**](http://docs.google.com/java/util/zip/ZipFile.html#ZipFile(java.io.File))([File](http://docs.google.com/java/io/File.html) file)            Opens a ZIP file for reading given the specified File object. |
| [**ZipFile**](http://docs.google.com/java/util/zip/ZipFile.html#ZipFile(java.io.File,%20int))([File](http://docs.google.com/java/io/File.html) file, int mode)            Opens a new ZipFile to read from the specified File object in the specified mode. |
| [**ZipFile**](http://docs.google.com/java/util/zip/ZipFile.html#ZipFile(java.lang.String))([String](http://docs.google.com/java/lang/String.html) name)            Opens a zip file for reading. |

| Uses of [IOException](http://docs.google.com/java/io/IOException.html) in [javax.activation](http://docs.google.com/javax/activation/package-summary.html) | |
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| Subclasses of [IOException](http://docs.google.com/java/io/IOException.html) in [javax.activation](http://docs.google.com/javax/activation/package-summary.html) | |
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| class | [**UnsupportedDataTypeException**](http://docs.google.com/javax/activation/UnsupportedDataTypeException.html)            Signals that the requested operation does not support the requested data type. |

| Methods in [javax.activation](http://docs.google.com/javax/activation/package-summary.html) that throw [IOException](http://docs.google.com/java/io/IOException.html) | |
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| [Object](http://docs.google.com/java/lang/Object.html) | **CommandInfo.**[**getCommandObject**](http://docs.google.com/javax/activation/CommandInfo.html#getCommandObject(javax.activation.DataHandler,%20java.lang.ClassLoader))([DataHandler](http://docs.google.com/javax/activation/DataHandler.html) dh, [ClassLoader](http://docs.google.com/java/lang/ClassLoader.html) loader)            Return the instantiated JavaBean component. |
| [Object](http://docs.google.com/java/lang/Object.html) | **DataHandler.**[**getContent**](http://docs.google.com/javax/activation/DataHandler.html#getContent())()            Return the data in its preferred Object form. |
| [Object](http://docs.google.com/java/lang/Object.html) | **DataContentHandler.**[**getContent**](http://docs.google.com/javax/activation/DataContentHandler.html#getContent(javax.activation.DataSource))([DataSource](http://docs.google.com/javax/activation/DataSource.html) ds)            Return an object representing the data in its most preferred form. |
| [InputStream](http://docs.google.com/java/io/InputStream.html) | **URLDataSource.**[**getInputStream**](http://docs.google.com/javax/activation/URLDataSource.html#getInputStream())()            The getInputStream method from the URL. |
| [InputStream](http://docs.google.com/java/io/InputStream.html) | **FileDataSource.**[**getInputStream**](http://docs.google.com/javax/activation/FileDataSource.html#getInputStream())()            This method will return an InputStream representing the the data and will throw an IOException if it can not do so. |
| [InputStream](http://docs.google.com/java/io/InputStream.html) | **DataSource.**[**getInputStream**](http://docs.google.com/javax/activation/DataSource.html#getInputStream())()            This method returns an InputStream representing the data and throws the appropriate exception if it can not do so. |
| [InputStream](http://docs.google.com/java/io/InputStream.html) | **DataHandler.**[**getInputStream**](http://docs.google.com/javax/activation/DataHandler.html#getInputStream())()            Get the InputStream for this object. |
| [OutputStream](http://docs.google.com/java/io/OutputStream.html) | **URLDataSource.**[**getOutputStream**](http://docs.google.com/javax/activation/URLDataSource.html#getOutputStream())()            The getOutputStream method from the URL. |
| [OutputStream](http://docs.google.com/java/io/OutputStream.html) | **FileDataSource.**[**getOutputStream**](http://docs.google.com/javax/activation/FileDataSource.html#getOutputStream())()            This method will return an OutputStream representing the the data and will throw an IOException if it can not do so. |
| [OutputStream](http://docs.google.com/java/io/OutputStream.html) | **DataSource.**[**getOutputStream**](http://docs.google.com/javax/activation/DataSource.html#getOutputStream())()            This method returns an OutputStream where the data can be written and throws the appropriate exception if it can not do so. |
| [OutputStream](http://docs.google.com/java/io/OutputStream.html) | **DataHandler.**[**getOutputStream**](http://docs.google.com/javax/activation/DataHandler.html#getOutputStream())()            Get an OutputStream for this DataHandler to allow overwriting the underlying data. |
| [Object](http://docs.google.com/java/lang/Object.html) | **DataHandler.**[**getTransferData**](http://docs.google.com/javax/activation/DataHandler.html#getTransferData(java.awt.datatransfer.DataFlavor))([DataFlavor](http://docs.google.com/java/awt/datatransfer/DataFlavor.html) flavor)            Returns an object that represents the data to be transferred. |
| [Object](http://docs.google.com/java/lang/Object.html) | **DataContentHandler.**[**getTransferData**](http://docs.google.com/javax/activation/DataContentHandler.html#getTransferData(java.awt.datatransfer.DataFlavor,%20javax.activation.DataSource))([DataFlavor](http://docs.google.com/java/awt/datatransfer/DataFlavor.html) df, [DataSource](http://docs.google.com/javax/activation/DataSource.html) ds)            Returns an object which represents the data to be transferred. |
| void | **MimeType.**[**readExternal**](http://docs.google.com/javax/activation/MimeType.html#readExternal(java.io.ObjectInput))([ObjectInput](http://docs.google.com/java/io/ObjectInput.html) in)            The object implements the readExternal method to restore its contents by calling the methods of DataInput for primitive types and readObject for objects, strings and arrays. |
| void | **CommandObject.**[**setCommandContext**](http://docs.google.com/javax/activation/CommandObject.html#setCommandContext(java.lang.String,%20javax.activation.DataHandler))([String](http://docs.google.com/java/lang/String.html) verb, [DataHandler](http://docs.google.com/javax/activation/DataHandler.html) dh)            Initialize the Command with the verb it is requested to handle and the DataHandler that describes the data it will operate on. |
| void | **MimeType.**[**writeExternal**](http://docs.google.com/javax/activation/MimeType.html#writeExternal(java.io.ObjectOutput))([ObjectOutput](http://docs.google.com/java/io/ObjectOutput.html) out)            The object implements the writeExternal method to save its contents by calling the methods of DataOutput for its primitive values or calling the writeObject method of ObjectOutput for objects, strings and arrays. |
| void | **DataContentHandler.**[**writeTo**](http://docs.google.com/javax/activation/DataContentHandler.html#writeTo(java.lang.Object,%20java.lang.String,%20java.io.OutputStream))([Object](http://docs.google.com/java/lang/Object.html) obj, [String](http://docs.google.com/java/lang/String.html) mimeType, [OutputStream](http://docs.google.com/java/io/OutputStream.html) os)            Convert the object to a byte stream of the specified MIME type and write it to the output stream. |
| void | **DataHandler.**[**writeTo**](http://docs.google.com/javax/activation/DataHandler.html#writeTo(java.io.OutputStream))([OutputStream](http://docs.google.com/java/io/OutputStream.html) os)            Write the data to an OutputStream. |

| Constructors in [javax.activation](http://docs.google.com/javax/activation/package-summary.html) that throw [IOException](http://docs.google.com/java/io/IOException.html) | |
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| [**MailcapCommandMap**](http://docs.google.com/javax/activation/MailcapCommandMap.html#MailcapCommandMap(java.lang.String))([String](http://docs.google.com/java/lang/String.html) fileName)            Constructor that allows the caller to specify the path of a *mailcap* file. |
| [**MimetypesFileTypeMap**](http://docs.google.com/javax/activation/MimetypesFileTypeMap.html#MimetypesFileTypeMap(java.lang.String))([String](http://docs.google.com/java/lang/String.html) mimeTypeFileName)            Construct a MimetypesFileTypeMap with programmatic entries added from the named file. |

| Uses of [IOException](http://docs.google.com/java/io/IOException.html) in [javax.activity](http://docs.google.com/javax/activity/package-summary.html) | |
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| Subclasses of [IOException](http://docs.google.com/java/io/IOException.html) in [javax.activity](http://docs.google.com/javax/activity/package-summary.html) | |
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| class | [**ActivityCompletedException**](http://docs.google.com/javax/activity/ActivityCompletedException.html)            This exception may be thrown on any method for which Activity context is accessed and indicates that ongoing work within the Activity is not possible. |
| class | [**ActivityRequiredException**](http://docs.google.com/javax/activity/ActivityRequiredException.html)            This exception is thrown by a container if Activity context is not received on a method for which Activity context is mandatory. |
| class | [**InvalidActivityException**](http://docs.google.com/javax/activity/InvalidActivityException.html)            This exception may be thrown on any method for which Activity context is accessed and indicates that the attempted invocation or the Activity context associated with the attempted invocation is incompatible with the Activity's current state. |

| Uses of [IOException](http://docs.google.com/java/io/IOException.html) in [javax.annotation.processing](http://docs.google.com/javax/annotation/processing/package-summary.html) | |
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| Subclasses of [IOException](http://docs.google.com/java/io/IOException.html) in [javax.annotation.processing](http://docs.google.com/javax/annotation/processing/package-summary.html) | |
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| class | [**FilerException**](http://docs.google.com/javax/annotation/processing/FilerException.html)            Indicates a [Filer](http://docs.google.com/javax/annotation/processing/Filer.html) detected an attempt to open a file that would violate the guarantees provided by the Filer. |

| Methods in [javax.annotation.processing](http://docs.google.com/javax/annotation/processing/package-summary.html) that throw [IOException](http://docs.google.com/java/io/IOException.html) | |
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| [JavaFileObject](http://docs.google.com/javax/tools/JavaFileObject.html) | **Filer.**[**createClassFile**](http://docs.google.com/javax/annotation/processing/Filer.html#createClassFile(java.lang.CharSequence,%20javax.lang.model.element.Element...))([CharSequence](http://docs.google.com/java/lang/CharSequence.html) name, [Element](http://docs.google.com/javax/lang/model/element/Element.html)... originatingElements)            Creates a new class file, and returns an object to allow writing to it. |
| [FileObject](http://docs.google.com/javax/tools/FileObject.html) | **Filer.**[**createResource**](http://docs.google.com/javax/annotation/processing/Filer.html#createResource(javax.tools.JavaFileManager.Location,%20java.lang.CharSequence,%20java.lang.CharSequence,%20javax.lang.model.element.Element...))([JavaFileManager.Location](http://docs.google.com/javax/tools/JavaFileManager.Location.html) location, [CharSequence](http://docs.google.com/java/lang/CharSequence.html) pkg, [CharSequence](http://docs.google.com/java/lang/CharSequence.html) relativeName, [Element](http://docs.google.com/javax/lang/model/element/Element.html)... originatingElements)            Creates a new auxiliary resource file for writing and returns a file object for it. |
| [JavaFileObject](http://docs.google.com/javax/tools/JavaFileObject.html) | **Filer.**[**createSourceFile**](http://docs.google.com/javax/annotation/processing/Filer.html#createSourceFile(java.lang.CharSequence,%20javax.lang.model.element.Element...))([CharSequence](http://docs.google.com/java/lang/CharSequence.html) name, [Element](http://docs.google.com/javax/lang/model/element/Element.html)... originatingElements)            Creates a new source file and returns an object to allow writing to it. |
| [FileObject](http://docs.google.com/javax/tools/FileObject.html) | **Filer.**[**getResource**](http://docs.google.com/javax/annotation/processing/Filer.html#getResource(javax.tools.JavaFileManager.Location,%20java.lang.CharSequence,%20java.lang.CharSequence))([JavaFileManager.Location](http://docs.google.com/javax/tools/JavaFileManager.Location.html) location, [CharSequence](http://docs.google.com/java/lang/CharSequence.html) pkg, [CharSequence](http://docs.google.com/java/lang/CharSequence.html) relativeName)            Returns an object for reading an existing resource. |

| Uses of [IOException](http://docs.google.com/java/io/IOException.html) in [javax.crypto](http://docs.google.com/javax/crypto/package-summary.html) | |
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| Methods in [javax.crypto](http://docs.google.com/javax/crypto/package-summary.html) that throw [IOException](http://docs.google.com/java/io/IOException.html) | |
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| int | **CipherInputStream.**[**available**](http://docs.google.com/javax/crypto/CipherInputStream.html#available())()            Returns the number of bytes that can be read from this input stream without blocking. |
| void | **CipherInputStream.**[**close**](http://docs.google.com/javax/crypto/CipherInputStream.html#close())()            Closes this input stream and releases any system resources associated with the stream. |
| void | **CipherOutputStream.**[**close**](http://docs.google.com/javax/crypto/CipherOutputStream.html#close())()            Closes this output stream and releases any system resources associated with this stream. |
| void | **CipherOutputStream.**[**flush**](http://docs.google.com/javax/crypto/CipherOutputStream.html#flush())()            Flushes this output stream by forcing any buffered output bytes that have already been processed by the encapsulated cipher object to be written out. |
| byte[] | **EncryptedPrivateKeyInfo.**[**getEncoded**](http://docs.google.com/javax/crypto/EncryptedPrivateKeyInfo.html#getEncoded())()            Returns the ASN.1 encoding of this object. |
| [Object](http://docs.google.com/java/lang/Object.html) | **SealedObject.**[**getObject**](http://docs.google.com/javax/crypto/SealedObject.html#getObject(javax.crypto.Cipher))([Cipher](http://docs.google.com/javax/crypto/Cipher.html) c)            Retrieves the original (encapsulated) object. |
| [Object](http://docs.google.com/java/lang/Object.html) | **SealedObject.**[**getObject**](http://docs.google.com/javax/crypto/SealedObject.html#getObject(java.security.Key))([Key](http://docs.google.com/java/security/Key.html) key)            Retrieves the original (encapsulated) object. |
| [Object](http://docs.google.com/java/lang/Object.html) | **SealedObject.**[**getObject**](http://docs.google.com/javax/crypto/SealedObject.html#getObject(java.security.Key,%20java.lang.String))([Key](http://docs.google.com/java/security/Key.html) key, [String](http://docs.google.com/java/lang/String.html) provider)            Retrieves the original (encapsulated) object. |
| int | **CipherInputStream.**[**read**](http://docs.google.com/javax/crypto/CipherInputStream.html#read())()            Reads the next byte of data from this input stream. |
| int | **CipherInputStream.**[**read**](http://docs.google.com/javax/crypto/CipherInputStream.html#read(byte%5B%5D))(byte[] b)            Reads up to b.length bytes of data from this input stream into an array of bytes. |
| int | **CipherInputStream.**[**read**](http://docs.google.com/javax/crypto/CipherInputStream.html#read(byte%5B%5D,%20int,%20int))(byte[] b, int off, int len)            Reads up to len bytes of data from this input stream into an array of bytes. |
| long | **CipherInputStream.**[**skip**](http://docs.google.com/javax/crypto/CipherInputStream.html#skip(long))(long n)            Skips n bytes of input from the bytes that can be read from this input stream without blocking. |
| void | **CipherOutputStream.**[**write**](http://docs.google.com/javax/crypto/CipherOutputStream.html#write(byte%5B%5D))(byte[] b)            Writes b.length bytes from the specified byte array to this output stream. |
| void | **CipherOutputStream.**[**write**](http://docs.google.com/javax/crypto/CipherOutputStream.html#write(byte%5B%5D,%20int,%20int))(byte[] b, int off, int len)            Writes len bytes from the specified byte array starting at offset off to this output stream. |
| void | **CipherOutputStream.**[**write**](http://docs.google.com/javax/crypto/CipherOutputStream.html#write(int))(int b)            Writes the specified byte to this output stream. |

| Constructors in [javax.crypto](http://docs.google.com/javax/crypto/package-summary.html) that throw [IOException](http://docs.google.com/java/io/IOException.html) | |
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| [**EncryptedPrivateKeyInfo**](http://docs.google.com/javax/crypto/EncryptedPrivateKeyInfo.html#EncryptedPrivateKeyInfo(byte%5B%5D))(byte[] encoded)            Constructs (i.e., parses) an EncryptedPrivateKeyInfo from its ASN.1 encoding. |
| [**SealedObject**](http://docs.google.com/javax/crypto/SealedObject.html#SealedObject(java.io.Serializable,%20javax.crypto.Cipher))([Serializable](http://docs.google.com/java/io/Serializable.html) object, [Cipher](http://docs.google.com/javax/crypto/Cipher.html) c)            Constructs a SealedObject from any Serializable object. |

| Uses of [IOException](http://docs.google.com/java/io/IOException.html) in [javax.imageio](http://docs.google.com/javax/imageio/package-summary.html) | |
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| Subclasses of [IOException](http://docs.google.com/java/io/IOException.html) in [javax.imageio](http://docs.google.com/javax/imageio/package-summary.html) | |
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| class | [**IIOException**](http://docs.google.com/javax/imageio/IIOException.html)            An exception class used for signaling run-time failure of reading and writing operations. |

| Methods in [javax.imageio](http://docs.google.com/javax/imageio/package-summary.html) that throw [IOException](http://docs.google.com/java/io/IOException.html) | |
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| boolean | **ImageWriter.**[**canInsertEmpty**](http://docs.google.com/javax/imageio/ImageWriter.html#canInsertEmpty(int))(int imageIndex)            Returns true if the writer supports the insertion of a new, empty image at the given index. |
| boolean | **ImageWriter.**[**canInsertImage**](http://docs.google.com/javax/imageio/ImageWriter.html#canInsertImage(int))(int imageIndex)            Returns true if the writer supports the insertion of a new image at the given index. |
| boolean | **ImageWriter.**[**canRemoveImage**](http://docs.google.com/javax/imageio/ImageWriter.html#canRemoveImage(int))(int imageIndex)            Returns true if the writer supports the removal of an existing image at the given index. |
| boolean | **ImageWriter.**[**canReplaceImageMetadata**](http://docs.google.com/javax/imageio/ImageWriter.html#canReplaceImageMetadata(int))(int imageIndex)            Returns true if it is possible to replace the image metadata associated with an existing image with index imageIndex. |
| boolean | **ImageWriter.**[**canReplacePixels**](http://docs.google.com/javax/imageio/ImageWriter.html#canReplacePixels(int))(int imageIndex)            Returns true if the writer allows pixels of the given image to be replaced using the replacePixels methods. |
| boolean | **ImageWriter.**[**canReplaceStreamMetadata**](http://docs.google.com/javax/imageio/ImageWriter.html#canReplaceStreamMetadata())()            Returns true if it is possible to replace the stream metadata already present in the output. |
| boolean | **ImageWriter.**[**canWriteEmpty**](http://docs.google.com/javax/imageio/ImageWriter.html#canWriteEmpty())()            Returns true if the writer supports the writing of a complete image stream consisting of a single image with undefined pixel values and associated metadata and thumbnails to the output. |
| static [ImageInputStream](http://docs.google.com/javax/imageio/stream/ImageInputStream.html) | **ImageIO.**[**createImageInputStream**](http://docs.google.com/javax/imageio/ImageIO.html#createImageInputStream(java.lang.Object))([Object](http://docs.google.com/java/lang/Object.html) input)            Returns an ImageInputStream that will take its input from the given Object. |
| static [ImageOutputStream](http://docs.google.com/javax/imageio/stream/ImageOutputStream.html) | **ImageIO.**[**createImageOutputStream**](http://docs.google.com/javax/imageio/ImageIO.html#createImageOutputStream(java.lang.Object))([Object](http://docs.google.com/java/lang/Object.html) output)            Returns an ImageOutputStream that will send its output to the given Object. |
| void | **ImageWriter.**[**endInsertEmpty**](http://docs.google.com/javax/imageio/ImageWriter.html#endInsertEmpty())()            Completes the insertion of a new image that was begun with a prior call to prepareInsertEmpty. |
| void | **ImageWriter.**[**endReplacePixels**](http://docs.google.com/javax/imageio/ImageWriter.html#endReplacePixels())()            Terminates a sequence of calls to replacePixels. |
| void | **ImageWriter.**[**endWriteEmpty**](http://docs.google.com/javax/imageio/ImageWriter.html#endWriteEmpty())()            Completes the writing of a new image that was begun with a prior call to prepareWriteEmpty. |
| void | **ImageWriter.**[**endWriteSequence**](http://docs.google.com/javax/imageio/ImageWriter.html#endWriteSequence())()            Completes the writing of a sequence of images begun with prepareWriteSequence. |
| float | **ImageReader.**[**getAspectRatio**](http://docs.google.com/javax/imageio/ImageReader.html#getAspectRatio(int))(int imageIndex)            Returns the aspect ratio of the given image (that is, its width divided by its height) as a float. |
| [String](http://docs.google.com/java/lang/String.html) | **ImageReader.**[**getFormatName**](http://docs.google.com/javax/imageio/ImageReader.html#getFormatName())()            Returns a String identifying the format of the input source. |
| abstract  int | **ImageReader.**[**getHeight**](http://docs.google.com/javax/imageio/ImageReader.html#getHeight(int))(int imageIndex)            Returns the height in pixels of the given image within the input source. |
| abstract  [IIOMetadata](http://docs.google.com/javax/imageio/metadata/IIOMetadata.html) | **ImageReader.**[**getImageMetadata**](http://docs.google.com/javax/imageio/ImageReader.html#getImageMetadata(int))(int imageIndex)            Returns an IIOMetadata object containing metadata associated with the given image, or null if the reader does not support reading metadata, is set to ignore metadata, or if no metadata is available. |
| [IIOMetadata](http://docs.google.com/javax/imageio/metadata/IIOMetadata.html) | **ImageReader.**[**getImageMetadata**](http://docs.google.com/javax/imageio/ImageReader.html#getImageMetadata(int,%20java.lang.String,%20java.util.Set))(int imageIndex, [String](http://docs.google.com/java/lang/String.html) formatName, [Set](http://docs.google.com/java/util/Set.html)<[String](http://docs.google.com/java/lang/String.html)> nodeNames)            Returns an IIOMetadata object representing the metadata associated with the given image, or null if the reader does not support reading metadata or none is available. |
| abstract  [Iterator](http://docs.google.com/java/util/Iterator.html)<[ImageTypeSpecifier](http://docs.google.com/javax/imageio/ImageTypeSpecifier.html)> | **ImageReader.**[**getImageTypes**](http://docs.google.com/javax/imageio/ImageReader.html#getImageTypes(int))(int imageIndex)            Returns an Iterator containing possible image types to which the given image may be decoded, in the form of ImageTypeSpecifierss. |
| abstract  int | **ImageReader.**[**getNumImages**](http://docs.google.com/javax/imageio/ImageReader.html#getNumImages(boolean))(boolean allowSearch)            Returns the number of images, not including thumbnails, available from the current input source. |
| int | **ImageReader.**[**getNumThumbnails**](http://docs.google.com/javax/imageio/ImageReader.html#getNumThumbnails(int))(int imageIndex)            Returns the number of thumbnail preview images associated with the given image. |
| [ImageTypeSpecifier](http://docs.google.com/javax/imageio/ImageTypeSpecifier.html) | **ImageReader.**[**getRawImageType**](http://docs.google.com/javax/imageio/ImageReader.html#getRawImageType(int))(int imageIndex)            Returns an ImageTypeSpecifier indicating the SampleModel and ColorModel which most closely represents the "raw" internal format of the image. |
| abstract  [IIOMetadata](http://docs.google.com/javax/imageio/metadata/IIOMetadata.html) | **ImageReader.**[**getStreamMetadata**](http://docs.google.com/javax/imageio/ImageReader.html#getStreamMetadata())()            Returns an IIOMetadata object representing the metadata associated with the input source as a whole (i.e., not associated with any particular image), or null if the reader does not support reading metadata, is set to ignore metadata, or if no metadata is available. |
| [IIOMetadata](http://docs.google.com/javax/imageio/metadata/IIOMetadata.html) | **ImageReader.**[**getStreamMetadata**](http://docs.google.com/javax/imageio/ImageReader.html#getStreamMetadata(java.lang.String,%20java.util.Set))([String](http://docs.google.com/java/lang/String.html) formatName, [Set](http://docs.google.com/java/util/Set.html)<[String](http://docs.google.com/java/lang/String.html)> nodeNames)            Returns an IIOMetadata object representing the metadata associated with the input source as a whole (i.e., not associated with any particular image). |
| int | **ImageReader.**[**getThumbnailHeight**](http://docs.google.com/javax/imageio/ImageReader.html#getThumbnailHeight(int,%20int))(int imageIndex, int thumbnailIndex)            Returns the height of the thumbnail preview image indexed by thumbnailIndex, associated with the image indexed by ImageIndex. |
| int | **ImageReader.**[**getThumbnailWidth**](http://docs.google.com/javax/imageio/ImageReader.html#getThumbnailWidth(int,%20int))(int imageIndex, int thumbnailIndex)            Returns the width of the thumbnail preview image indexed by thumbnailIndex, associated with the image indexed by ImageIndex. |
| int | **ImageReader.**[**getTileGridXOffset**](http://docs.google.com/javax/imageio/ImageReader.html#getTileGridXOffset(int))(int imageIndex)            Returns the X coordinate of the upper-left corner of tile (0, 0) in the given image. |
| int | **ImageReader.**[**getTileGridYOffset**](http://docs.google.com/javax/imageio/ImageReader.html#getTileGridYOffset(int))(int imageIndex)            Returns the Y coordinate of the upper-left corner of tile (0, 0) in the given image. |
| int | **ImageReader.**[**getTileHeight**](http://docs.google.com/javax/imageio/ImageReader.html#getTileHeight(int))(int imageIndex)            Returns the height of a tile in the given image. |
| int | **ImageReader.**[**getTileWidth**](http://docs.google.com/javax/imageio/ImageReader.html#getTileWidth(int))(int imageIndex)            Returns the width of a tile in the given image. |
| abstract  int | **ImageReader.**[**getWidth**](http://docs.google.com/javax/imageio/ImageReader.html#getWidth(int))(int imageIndex)            Returns the width in pixels of the given image within the input source. |
| boolean | **ImageReader.**[**hasThumbnails**](http://docs.google.com/javax/imageio/ImageReader.html#hasThumbnails(int))(int imageIndex)            Returns true if the given image has thumbnail preview images associated with it. |
| boolean | **ImageReader.**[**isImageTiled**](http://docs.google.com/javax/imageio/ImageReader.html#isImageTiled(int))(int imageIndex)            Returns true if the image is organized into *tiles*, that is, equal-sized non-overlapping rectangles. |
| boolean | **ImageReader.**[**isRandomAccessEasy**](http://docs.google.com/javax/imageio/ImageReader.html#isRandomAccessEasy(int))(int imageIndex)            Returns true if the storage format of the given image places no inherent impediment on random access to pixels. |
| void | **ImageWriter.**[**prepareInsertEmpty**](http://docs.google.com/javax/imageio/ImageWriter.html#prepareInsertEmpty(int,%20javax.imageio.ImageTypeSpecifier,%20int,%20int,%20javax.imageio.metadata.IIOMetadata,%20java.util.List,%20javax.imageio.ImageWriteParam))(int imageIndex, [ImageTypeSpecifier](http://docs.google.com/javax/imageio/ImageTypeSpecifier.html) imageType, int width, int height, [IIOMetadata](http://docs.google.com/javax/imageio/metadata/IIOMetadata.html) imageMetadata, [List](http://docs.google.com/java/util/List.html)<? extends [BufferedImage](http://docs.google.com/java/awt/image/BufferedImage.html)> thumbnails, [ImageWriteParam](http://docs.google.com/javax/imageio/ImageWriteParam.html) param)            Begins the insertion of a new image with undefined pixel values into an existing image stream. |
| void | **ImageWriter.**[**prepareReplacePixels**](http://docs.google.com/javax/imageio/ImageWriter.html#prepareReplacePixels(int,%20java.awt.Rectangle))(int imageIndex, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) region)            Prepares the writer to handle a series of calls to the replacePixels methods. |
| void | **ImageWriter.**[**prepareWriteEmpty**](http://docs.google.com/javax/imageio/ImageWriter.html#prepareWriteEmpty(javax.imageio.metadata.IIOMetadata,%20javax.imageio.ImageTypeSpecifier,%20int,%20int,%20javax.imageio.metadata.IIOMetadata,%20java.util.List,%20javax.imageio.ImageWriteParam))([IIOMetadata](http://docs.google.com/javax/imageio/metadata/IIOMetadata.html) streamMetadata, [ImageTypeSpecifier](http://docs.google.com/javax/imageio/ImageTypeSpecifier.html) imageType, int width, int height, [IIOMetadata](http://docs.google.com/javax/imageio/metadata/IIOMetadata.html) imageMetadata, [List](http://docs.google.com/java/util/List.html)<? extends [BufferedImage](http://docs.google.com/java/awt/image/BufferedImage.html)> thumbnails, [ImageWriteParam](http://docs.google.com/javax/imageio/ImageWriteParam.html) param)            Begins the writing of a complete image stream, consisting of a single image with undefined pixel values and associated metadata and thumbnails, to the output. |
| void | **ImageWriter.**[**prepareWriteSequence**](http://docs.google.com/javax/imageio/ImageWriter.html#prepareWriteSequence(javax.imageio.metadata.IIOMetadata))([IIOMetadata](http://docs.google.com/javax/imageio/metadata/IIOMetadata.html) streamMetadata)            Prepares a stream to accept a series of subsequent writeToSequence calls, using the provided stream metadata object. |
| static [BufferedImage](http://docs.google.com/java/awt/image/BufferedImage.html) | **ImageIO.**[**read**](http://docs.google.com/javax/imageio/ImageIO.html#read(java.io.File))([File](http://docs.google.com/java/io/File.html) input)            Returns a BufferedImage as the result of decoding a supplied File with an ImageReader chosen automatically from among those currently registered. |
| static [BufferedImage](http://docs.google.com/java/awt/image/BufferedImage.html) | **ImageIO.**[**read**](http://docs.google.com/javax/imageio/ImageIO.html#read(javax.imageio.stream.ImageInputStream))([ImageInputStream](http://docs.google.com/javax/imageio/stream/ImageInputStream.html) stream)            Returns a BufferedImage as the result of decoding a supplied ImageInputStream with an ImageReader chosen automatically from among those currently registered. |
| static [BufferedImage](http://docs.google.com/java/awt/image/BufferedImage.html) | **ImageIO.**[**read**](http://docs.google.com/javax/imageio/ImageIO.html#read(java.io.InputStream))([InputStream](http://docs.google.com/java/io/InputStream.html) input)            Returns a BufferedImage as the result of decoding a supplied InputStream with an ImageReader chosen automatically from among those currently registered. |
| [BufferedImage](http://docs.google.com/java/awt/image/BufferedImage.html) | **ImageReader.**[**read**](http://docs.google.com/javax/imageio/ImageReader.html#read(int))(int imageIndex)            Reads the image indexed by imageIndex and returns it as a complete BufferedImage, using a default ImageReadParam. |
| abstract  [BufferedImage](http://docs.google.com/java/awt/image/BufferedImage.html) | **ImageReader.**[**read**](http://docs.google.com/javax/imageio/ImageReader.html#read(int,%20javax.imageio.ImageReadParam))(int imageIndex, [ImageReadParam](http://docs.google.com/javax/imageio/ImageReadParam.html) param)            Reads the image indexed by imageIndex and returns it as a complete BufferedImage, using a supplied ImageReadParam. |
| static [BufferedImage](http://docs.google.com/java/awt/image/BufferedImage.html) | **ImageIO.**[**read**](http://docs.google.com/javax/imageio/ImageIO.html#read(java.net.URL))([URL](http://docs.google.com/java/net/URL.html) input)            Returns a BufferedImage as the result of decoding a supplied URL with an ImageReader chosen automatically from among those currently registered. |
| [IIOImage](http://docs.google.com/javax/imageio/IIOImage.html) | **ImageReader.**[**readAll**](http://docs.google.com/javax/imageio/ImageReader.html#readAll(int,%20javax.imageio.ImageReadParam))(int imageIndex, [ImageReadParam](http://docs.google.com/javax/imageio/ImageReadParam.html) param)            Reads the image indexed by imageIndex and returns an IIOImage containing the image, thumbnails, and associated image metadata, using a supplied ImageReadParam. |
| [Iterator](http://docs.google.com/java/util/Iterator.html)<[IIOImage](http://docs.google.com/javax/imageio/IIOImage.html)> | **ImageReader.**[**readAll**](http://docs.google.com/javax/imageio/ImageReader.html#readAll(java.util.Iterator))([Iterator](http://docs.google.com/java/util/Iterator.html)<? extends [ImageReadParam](http://docs.google.com/javax/imageio/ImageReadParam.html)> params)            Returns an Iterator containing all the images, thumbnails, and metadata, starting at the index given by getMinIndex, from the input source in the form of IIOImage objects. |
| [RenderedImage](http://docs.google.com/java/awt/image/RenderedImage.html) | **ImageReader.**[**readAsRenderedImage**](http://docs.google.com/javax/imageio/ImageReader.html#readAsRenderedImage(int,%20javax.imageio.ImageReadParam))(int imageIndex, [ImageReadParam](http://docs.google.com/javax/imageio/ImageReadParam.html) param)            Returns a RenderedImage object that contains the contents of the image indexed by imageIndex. |
| [Raster](http://docs.google.com/java/awt/image/Raster.html) | **ImageReader.**[**readRaster**](http://docs.google.com/javax/imageio/ImageReader.html#readRaster(int,%20javax.imageio.ImageReadParam))(int imageIndex, [ImageReadParam](http://docs.google.com/javax/imageio/ImageReadParam.html) param)            Returns a new Raster object containing the raw pixel data from the image stream, without any color conversion applied. |
| [BufferedImage](http://docs.google.com/java/awt/image/BufferedImage.html) | **ImageReader.**[**readThumbnail**](http://docs.google.com/javax/imageio/ImageReader.html#readThumbnail(int,%20int))(int imageIndex, int thumbnailIndex)            Returns the thumbnail preview image indexed by thumbnailIndex, associated with the image indexed by ImageIndex as a BufferedImage. |
| [BufferedImage](http://docs.google.com/java/awt/image/BufferedImage.html) | **ImageReader.**[**readTile**](http://docs.google.com/javax/imageio/ImageReader.html#readTile(int,%20int,%20int))(int imageIndex, int tileX, int tileY)            Reads the tile indicated by the tileX and tileY arguments, returning it as a BufferedImage. |
| [Raster](http://docs.google.com/java/awt/image/Raster.html) | **ImageReader.**[**readTileRaster**](http://docs.google.com/javax/imageio/ImageReader.html#readTileRaster(int,%20int,%20int))(int imageIndex, int tileX, int tileY)            Returns a new Raster object containing the raw pixel data from the tile, without any color conversion applied. |
| void | **ImageWriter.**[**removeImage**](http://docs.google.com/javax/imageio/ImageWriter.html#removeImage(int))(int imageIndex)            Removes an image from the stream. |
| void | **ImageWriter.**[**replaceImageMetadata**](http://docs.google.com/javax/imageio/ImageWriter.html#replaceImageMetadata(int,%20javax.imageio.metadata.IIOMetadata))(int imageIndex, [IIOMetadata](http://docs.google.com/javax/imageio/metadata/IIOMetadata.html) imageMetadata)            Replaces the image metadata associated with an existing image. |
| void | **ImageWriter.**[**replacePixels**](http://docs.google.com/javax/imageio/ImageWriter.html#replacePixels(java.awt.image.Raster,%20javax.imageio.ImageWriteParam))([Raster](http://docs.google.com/java/awt/image/Raster.html) raster, [ImageWriteParam](http://docs.google.com/javax/imageio/ImageWriteParam.html) param)            Replaces a portion of an image already present in the output with a portion of the given Raster. |
| void | **ImageWriter.**[**replacePixels**](http://docs.google.com/javax/imageio/ImageWriter.html#replacePixels(java.awt.image.RenderedImage,%20javax.imageio.ImageWriteParam))([RenderedImage](http://docs.google.com/java/awt/image/RenderedImage.html) image, [ImageWriteParam](http://docs.google.com/javax/imageio/ImageWriteParam.html) param)            Replaces a portion of an image already present in the output with a portion of the given image. |
| void | **ImageWriter.**[**replaceStreamMetadata**](http://docs.google.com/javax/imageio/ImageWriter.html#replaceStreamMetadata(javax.imageio.metadata.IIOMetadata))([IIOMetadata](http://docs.google.com/javax/imageio/metadata/IIOMetadata.html) streamMetadata)            Replaces the stream metadata in the output with new information. |
| void | **ImageWriter.**[**write**](http://docs.google.com/javax/imageio/ImageWriter.html#write(javax.imageio.IIOImage))([IIOImage](http://docs.google.com/javax/imageio/IIOImage.html) image)            Appends a complete image stream containing a single image with default metadata and thumbnails to the output. |
| abstract  void | **ImageWriter.**[**write**](http://docs.google.com/javax/imageio/ImageWriter.html#write(javax.imageio.metadata.IIOMetadata,%20javax.imageio.IIOImage,%20javax.imageio.ImageWriteParam))([IIOMetadata](http://docs.google.com/javax/imageio/metadata/IIOMetadata.html) streamMetadata, [IIOImage](http://docs.google.com/javax/imageio/IIOImage.html) image, [ImageWriteParam](http://docs.google.com/javax/imageio/ImageWriteParam.html) param)            Appends a complete image stream containing a single image and associated stream and image metadata and thumbnails to the output. |
| void | **ImageWriter.**[**write**](http://docs.google.com/javax/imageio/ImageWriter.html#write(java.awt.image.RenderedImage))([RenderedImage](http://docs.google.com/java/awt/image/RenderedImage.html) image)            Appends a complete image stream consisting of a single image with default metadata and thumbnails to the output. |
| static boolean | **ImageIO.**[**write**](http://docs.google.com/javax/imageio/ImageIO.html#write(java.awt.image.RenderedImage,%20java.lang.String,%20java.io.File))([RenderedImage](http://docs.google.com/java/awt/image/RenderedImage.html) im, [String](http://docs.google.com/java/lang/String.html) formatName, [File](http://docs.google.com/java/io/File.html) output)            Writes an image using an arbitrary ImageWriter that supports the given format to a File. |
| static boolean | **ImageIO.**[**write**](http://docs.google.com/javax/imageio/ImageIO.html#write(java.awt.image.RenderedImage,%20java.lang.String,%20javax.imageio.stream.ImageOutputStream))([RenderedImage](http://docs.google.com/java/awt/image/RenderedImage.html) im, [String](http://docs.google.com/java/lang/String.html) formatName, [ImageOutputStream](http://docs.google.com/javax/imageio/stream/ImageOutputStream.html) output)            Writes an image using the an arbitrary ImageWriter that supports the given format to an ImageOutputStream. |
| static boolean | **ImageIO.**[**write**](http://docs.google.com/javax/imageio/ImageIO.html#write(java.awt.image.RenderedImage,%20java.lang.String,%20java.io.OutputStream))([RenderedImage](http://docs.google.com/java/awt/image/RenderedImage.html) im, [String](http://docs.google.com/java/lang/String.html) formatName, [OutputStream](http://docs.google.com/java/io/OutputStream.html) output)            Writes an image using an arbitrary ImageWriter that supports the given format to an OutputStream. |
| void | **ImageWriter.**[**writeInsert**](http://docs.google.com/javax/imageio/ImageWriter.html#writeInsert(int,%20javax.imageio.IIOImage,%20javax.imageio.ImageWriteParam))(int imageIndex, [IIOImage](http://docs.google.com/javax/imageio/IIOImage.html) image, [ImageWriteParam](http://docs.google.com/javax/imageio/ImageWriteParam.html) param)            Inserts a new image into an existing image stream. |
| void | **ImageWriter.**[**writeToSequence**](http://docs.google.com/javax/imageio/ImageWriter.html#writeToSequence(javax.imageio.IIOImage,%20javax.imageio.ImageWriteParam))([IIOImage](http://docs.google.com/javax/imageio/IIOImage.html) image, [ImageWriteParam](http://docs.google.com/javax/imageio/ImageWriteParam.html) param)            Appends a single image and possibly associated metadata and thumbnails, to the output. |

| Uses of [IOException](http://docs.google.com/java/io/IOException.html) in [javax.imageio.metadata](http://docs.google.com/javax/imageio/metadata/package-summary.html) | |
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| Subclasses of [IOException](http://docs.google.com/java/io/IOException.html) in [javax.imageio.metadata](http://docs.google.com/javax/imageio/metadata/package-summary.html) | |
| --- | --- |
| class | [**IIOInvalidTreeException**](http://docs.google.com/javax/imageio/metadata/IIOInvalidTreeException.html)            An IIOInvalidTreeException is thrown when an attempt by an IIOMetadata object to parse a tree of IIOMetadataNodes fails. |

| Uses of [IOException](http://docs.google.com/java/io/IOException.html) in [javax.imageio.spi](http://docs.google.com/javax/imageio/spi/package-summary.html) | |
| --- | --- |

| Methods in [javax.imageio.spi](http://docs.google.com/javax/imageio/spi/package-summary.html) that throw [IOException](http://docs.google.com/java/io/IOException.html) | |
| --- | --- |
| abstract  boolean | **ImageReaderSpi.**[**canDecodeInput**](http://docs.google.com/javax/imageio/spi/ImageReaderSpi.html#canDecodeInput(java.lang.Object))([Object](http://docs.google.com/java/lang/Object.html) source)            Returns true if the supplied source object appears to be of the format supported by this reader. |
| [ImageInputStream](http://docs.google.com/javax/imageio/stream/ImageInputStream.html) | **ImageInputStreamSpi.**[**createInputStreamInstance**](http://docs.google.com/javax/imageio/spi/ImageInputStreamSpi.html#createInputStreamInstance(java.lang.Object))([Object](http://docs.google.com/java/lang/Object.html) input)            Returns an instance of the ImageInputStream implementation associated with this service provider. |
| abstract  [ImageInputStream](http://docs.google.com/javax/imageio/stream/ImageInputStream.html) | **ImageInputStreamSpi.**[**createInputStreamInstance**](http://docs.google.com/javax/imageio/spi/ImageInputStreamSpi.html#createInputStreamInstance(java.lang.Object,%20boolean,%20java.io.File))([Object](http://docs.google.com/java/lang/Object.html) input, boolean useCache, [File](http://docs.google.com/java/io/File.html) cacheDir)            Returns an instance of the ImageInputStream implementation associated with this service provider. |
| [ImageOutputStream](http://docs.google.com/javax/imageio/stream/ImageOutputStream.html) | **ImageOutputStreamSpi.**[**createOutputStreamInstance**](http://docs.google.com/javax/imageio/spi/ImageOutputStreamSpi.html#createOutputStreamInstance(java.lang.Object))([Object](http://docs.google.com/java/lang/Object.html) output)            Returns an instance of the ImageOutputStream implementation associated with this service provider. |
| abstract  [ImageOutputStream](http://docs.google.com/javax/imageio/stream/ImageOutputStream.html) | **ImageOutputStreamSpi.**[**createOutputStreamInstance**](http://docs.google.com/javax/imageio/spi/ImageOutputStreamSpi.html#createOutputStreamInstance(java.lang.Object,%20boolean,%20java.io.File))([Object](http://docs.google.com/java/lang/Object.html) output, boolean useCache, [File](http://docs.google.com/java/io/File.html) cacheDir)            Returns an instance of the ImageOutputStream implementation associated with this service provider. |
| [ImageReader](http://docs.google.com/javax/imageio/ImageReader.html) | **ImageReaderSpi.**[**createReaderInstance**](http://docs.google.com/javax/imageio/spi/ImageReaderSpi.html#createReaderInstance())()            Returns an instance of the ImageReader implementation associated with this service provider. |
| abstract  [ImageReader](http://docs.google.com/javax/imageio/ImageReader.html) | **ImageReaderSpi.**[**createReaderInstance**](http://docs.google.com/javax/imageio/spi/ImageReaderSpi.html#createReaderInstance(java.lang.Object))([Object](http://docs.google.com/java/lang/Object.html) extension)            Returns an instance of the ImageReader implementation associated with this service provider. |
| [ImageWriter](http://docs.google.com/javax/imageio/ImageWriter.html) | **ImageWriterSpi.**[**createWriterInstance**](http://docs.google.com/javax/imageio/spi/ImageWriterSpi.html#createWriterInstance())()            Returns an instance of the ImageWriter implementation associated with this service provider. |
| abstract  [ImageWriter](http://docs.google.com/javax/imageio/ImageWriter.html) | **ImageWriterSpi.**[**createWriterInstance**](http://docs.google.com/javax/imageio/spi/ImageWriterSpi.html#createWriterInstance(java.lang.Object))([Object](http://docs.google.com/java/lang/Object.html) extension)            Returns an instance of the ImageWriter implementation associated with this service provider. |

| Uses of [IOException](http://docs.google.com/java/io/IOException.html) in [javax.imageio.stream](http://docs.google.com/javax/imageio/stream/package-summary.html) | |
| --- | --- |

| Methods in [javax.imageio.stream](http://docs.google.com/javax/imageio/stream/package-summary.html) that throw [IOException](http://docs.google.com/java/io/IOException.html) | |
| --- | --- |
| protected  void | **ImageInputStreamImpl.**[**checkClosed**](http://docs.google.com/javax/imageio/stream/ImageInputStreamImpl.html#checkClosed())()            Throws an IOException if the stream has been closed. |
| void | **FileImageOutputStream.**[**close**](http://docs.google.com/javax/imageio/stream/FileImageOutputStream.html#close())() |
| void | **MemoryCacheImageOutputStream.**[**close**](http://docs.google.com/javax/imageio/stream/MemoryCacheImageOutputStream.html#close())()            Closes this MemoryCacheImageOutputStream. |
| void | **FileImageInputStream.**[**close**](http://docs.google.com/javax/imageio/stream/FileImageInputStream.html#close())() |
| void | **FileCacheImageOutputStream.**[**close**](http://docs.google.com/javax/imageio/stream/FileCacheImageOutputStream.html#close())()            Closes this FileCacheImageOututStream. |
| void | **MemoryCacheImageInputStream.**[**close**](http://docs.google.com/javax/imageio/stream/MemoryCacheImageInputStream.html#close())()            Closes this MemoryCacheImageInputStream, freeing the cache. |
| void | **FileCacheImageInputStream.**[**close**](http://docs.google.com/javax/imageio/stream/FileCacheImageInputStream.html#close())()            Closes this FileCacheImageInputStream, closing and removing the cache file. |
| void | **ImageInputStreamImpl.**[**close**](http://docs.google.com/javax/imageio/stream/ImageInputStreamImpl.html#close())() |
| void | **ImageInputStream.**[**close**](http://docs.google.com/javax/imageio/stream/ImageInputStream.html#close())()            Closes the stream. |
| void | **ImageInputStreamImpl.**[**flush**](http://docs.google.com/javax/imageio/stream/ImageInputStreamImpl.html#flush())() |
| void | **ImageInputStream.**[**flush**](http://docs.google.com/javax/imageio/stream/ImageInputStream.html#flush())()            Discards the initial position of the stream prior to the current stream position. |
| void | **MemoryCacheImageOutputStream.**[**flushBefore**](http://docs.google.com/javax/imageio/stream/MemoryCacheImageOutputStream.html#flushBefore(long))(long pos) |
| void | **FileCacheImageOutputStream.**[**flushBefore**](http://docs.google.com/javax/imageio/stream/FileCacheImageOutputStream.html#flushBefore(long))(long pos) |
| void | **MemoryCacheImageInputStream.**[**flushBefore**](http://docs.google.com/javax/imageio/stream/MemoryCacheImageInputStream.html#flushBefore(long))(long pos) |
| void | **ImageInputStreamImpl.**[**flushBefore**](http://docs.google.com/javax/imageio/stream/ImageInputStreamImpl.html#flushBefore(long))(long pos) |
| void | **ImageOutputStream.**[**flushBefore**](http://docs.google.com/javax/imageio/stream/ImageOutputStream.html#flushBefore(long))(long pos)            Flushes all data prior to the given position to the underlying destination, such as an OutputStream or File. |
| void | **ImageInputStream.**[**flushBefore**](http://docs.google.com/javax/imageio/stream/ImageInputStream.html#flushBefore(long))(long pos)            Discards the initial portion of the stream prior to the indicated postion. |
| protected  void | **ImageOutputStreamImpl.**[**flushBits**](http://docs.google.com/javax/imageio/stream/ImageOutputStreamImpl.html#flushBits())()            If the bit offset is non-zero, forces the remaining bits in the current byte to 0 and advances the stream position by one. |
| int | **ImageInputStreamImpl.**[**getBitOffset**](http://docs.google.com/javax/imageio/stream/ImageInputStreamImpl.html#getBitOffset())() |
| int | **ImageInputStream.**[**getBitOffset**](http://docs.google.com/javax/imageio/stream/ImageInputStream.html#getBitOffset())()            Returns the current bit offset, as an integer between 0 and 7, inclusive. |
| long | **ImageInputStreamImpl.**[**getStreamPosition**](http://docs.google.com/javax/imageio/stream/ImageInputStreamImpl.html#getStreamPosition())() |
| long | **ImageInputStream.**[**getStreamPosition**](http://docs.google.com/javax/imageio/stream/ImageInputStream.html#getStreamPosition())()            Returns the current byte position of the stream. |
| long | **ImageInputStream.**[**length**](http://docs.google.com/javax/imageio/stream/ImageInputStream.html#length())()            Returns the total length of the stream, if known. |
| int | **FileImageOutputStream.**[**read**](http://docs.google.com/javax/imageio/stream/FileImageOutputStream.html#read())() |
| int | **MemoryCacheImageOutputStream.**[**read**](http://docs.google.com/javax/imageio/stream/MemoryCacheImageOutputStream.html#read())() |
| int | **FileImageInputStream.**[**read**](http://docs.google.com/javax/imageio/stream/FileImageInputStream.html#read())() |
| int | **FileCacheImageOutputStream.**[**read**](http://docs.google.com/javax/imageio/stream/FileCacheImageOutputStream.html#read())() |
| int | **MemoryCacheImageInputStream.**[**read**](http://docs.google.com/javax/imageio/stream/MemoryCacheImageInputStream.html#read())() |
| int | **FileCacheImageInputStream.**[**read**](http://docs.google.com/javax/imageio/stream/FileCacheImageInputStream.html#read())() |
| abstract  int | **ImageInputStreamImpl.**[**read**](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. |
| int | **ImageInputStream.**[**read**](http://docs.google.com/javax/imageio/stream/ImageInputStream.html#read())()            Reads a single byte from the stream and returns it as an integer between 0 and 255. |
| int | **ImageInputStreamImpl.**[**read**](http://docs.google.com/javax/imageio/stream/ImageInputStreamImpl.html#read(byte%5B%5D))(byte[] b)            A convenience method that calls read(b, 0, b.length). |
| int | **ImageInputStream.**[**read**](http://docs.google.com/javax/imageio/stream/ImageInputStream.html#read(byte%5B%5D))(byte[] b)            Reads up to b.length bytes from the stream, and stores them into b starting at index 0. |
| int | **FileImageOutputStream.**[**read**](http://docs.google.com/javax/imageio/stream/FileImageOutputStream.html#read(byte%5B%5D,%20int,%20int))(byte[] b, int off, int len) |
| int | **MemoryCacheImageOutputStream.**[**read**](http://docs.google.com/javax/imageio/stream/MemoryCacheImageOutputStream.html#read(byte%5B%5D,%20int,%20int))(byte[] b, int off, int len) |
| int | **FileImageInputStream.**[**read**](http://docs.google.com/javax/imageio/stream/FileImageInputStream.html#read(byte%5B%5D,%20int,%20int))(byte[] b, int off, int len) |
| int | **FileCacheImageOutputStream.**[**read**](http://docs.google.com/javax/imageio/stream/FileCacheImageOutputStream.html#read(byte%5B%5D,%20int,%20int))(byte[] b, int off, int len) |
| int | **MemoryCacheImageInputStream.**[**read**](http://docs.google.com/javax/imageio/stream/MemoryCacheImageInputStream.html#read(byte%5B%5D,%20int,%20int))(byte[] b, int off, int len) |
| int | **FileCacheImageInputStream.**[**read**](http://docs.google.com/javax/imageio/stream/FileCacheImageInputStream.html#read(byte%5B%5D,%20int,%20int))(byte[] b, int off, int len) |
| abstract  int | **ImageInputStreamImpl.**[**read**](http://docs.google.com/javax/imageio/stream/ImageInputStreamImpl.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. |
| int | **ImageInputStream.**[**read**](http://docs.google.com/javax/imageio/stream/ImageInputStream.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. |
| int | **ImageInputStreamImpl.**[**readBit**](http://docs.google.com/javax/imageio/stream/ImageInputStreamImpl.html#readBit())() |
| int | **ImageInputStream.**[**readBit**](http://docs.google.com/javax/imageio/stream/ImageInputStream.html#readBit())()            Reads a single bit from the stream and returns it as an int with the value 0 or 1. |
| long | **ImageInputStreamImpl.**[**readBits**](http://docs.google.com/javax/imageio/stream/ImageInputStreamImpl.html#readBits(int))(int numBits) |
| long | **ImageInputStream.**[**readBits**](http://docs.google.com/javax/imageio/stream/ImageInputStream.html#readBits(int))(int numBits)            Reads a bitstring from the stream and returns it as a long, with the first bit read becoming the most significant bit of the output. |
| boolean | **ImageInputStreamImpl.**[**readBoolean**](http://docs.google.com/javax/imageio/stream/ImageInputStreamImpl.html#readBoolean())() |
| boolean | **ImageInputStream.**[**readBoolean**](http://docs.google.com/javax/imageio/stream/ImageInputStream.html#readBoolean())()            Reads a byte from the stream and returns a boolean value of true if it is nonzero, false if it is zero. |
| byte | **ImageInputStreamImpl.**[**readByte**](http://docs.google.com/javax/imageio/stream/ImageInputStreamImpl.html#readByte())() |
| byte | **ImageInputStream.**[**readByte**](http://docs.google.com/javax/imageio/stream/ImageInputStream.html#readByte())()            Reads a byte from the stream and returns it as a byte value. |
| void | **ImageInputStreamImpl.**[**readBytes**](http://docs.google.com/javax/imageio/stream/ImageInputStreamImpl.html#readBytes(javax.imageio.stream.IIOByteBuffer,%20int))([IIOByteBuffer](http://docs.google.com/javax/imageio/stream/IIOByteBuffer.html) buf, int len) |
| void | **ImageInputStream.**[**readBytes**](http://docs.google.com/javax/imageio/stream/ImageInputStream.html#readBytes(javax.imageio.stream.IIOByteBuffer,%20int))([IIOByteBuffer](http://docs.google.com/javax/imageio/stream/IIOByteBuffer.html) buf, int len)            Reads up to len bytes from the stream, and modifies the supplied IIOByteBuffer to indicate the byte array, offset, and length where the data may be found. |
| char | **ImageInputStreamImpl.**[**readChar**](http://docs.google.com/javax/imageio/stream/ImageInputStreamImpl.html#readChar())() |
| char | **ImageInputStream.**[**readChar**](http://docs.google.com/javax/imageio/stream/ImageInputStream.html#readChar())()            Equivalent to readUnsignedShort, except that the result is returned using the char datatype. |
| double | **ImageInputStreamImpl.**[**readDouble**](http://docs.google.com/javax/imageio/stream/ImageInputStreamImpl.html#readDouble())() |
| double | **ImageInputStream.**[**readDouble**](http://docs.google.com/javax/imageio/stream/ImageInputStream.html#readDouble())()            Reads 8 bytes from the stream, and (conceptually) concatenates them according to the current byte order and returns the result as a double. |
| float | **ImageInputStreamImpl.**[**readFloat**](http://docs.google.com/javax/imageio/stream/ImageInputStreamImpl.html#readFloat())() |
| float | **ImageInputStream.**[**readFloat**](http://docs.google.com/javax/imageio/stream/ImageInputStream.html#readFloat())()            Reads 4 bytes from the stream, and (conceptually) concatenates them according to the current byte order and returns the result as a float. |
| void | **ImageInputStreamImpl.**[**readFully**](http://docs.google.com/javax/imageio/stream/ImageInputStreamImpl.html#readFully(byte%5B%5D))(byte[] b) |
| void | **ImageInputStream.**[**readFully**](http://docs.google.com/javax/imageio/stream/ImageInputStream.html#readFully(byte%5B%5D))(byte[] b)            Reads b.length bytes from the stream, and stores them into b starting at index 0. |
| void | **ImageInputStreamImpl.**[**readFully**](http://docs.google.com/javax/imageio/stream/ImageInputStreamImpl.html#readFully(byte%5B%5D,%20int,%20int))(byte[] b, int off, int len) |
| void | **ImageInputStream.**[**readFully**](http://docs.google.com/javax/imageio/stream/ImageInputStream.html#readFully(byte%5B%5D,%20int,%20int))(byte[] b, int off, int len)            Reads len bytes from the stream, and stores them into b starting at index off. |
| void | **ImageInputStreamImpl.**[**readFully**](http://docs.google.com/javax/imageio/stream/ImageInputStreamImpl.html#readFully(char%5B%5D,%20int,%20int))(char[] c, int off, int len) |
| void | **ImageInputStream.**[**readFully**](http://docs.google.com/javax/imageio/stream/ImageInputStream.html#readFully(char%5B%5D,%20int,%20int))(char[] c, int off, int len)            Reads len chars (unsigned 16-bit integers) from the stream according to the current byte order, and stores them into c starting at index off. |
| void | **ImageInputStreamImpl.**[**readFully**](http://docs.google.com/javax/imageio/stream/ImageInputStreamImpl.html#readFully(double%5B%5D,%20int,%20int))(double[] d, int off, int len) |
| void | **ImageInputStream.**[**readFully**](http://docs.google.com/javax/imageio/stream/ImageInputStream.html#readFully(double%5B%5D,%20int,%20int))(double[] d, int off, int len)            Reads len doubles (64-bit IEEE double-precision floats) from the stream according to the current byte order, and stores them into d starting at index off. |
| void | **ImageInputStreamImpl.**[**readFully**](http://docs.google.com/javax/imageio/stream/ImageInputStreamImpl.html#readFully(float%5B%5D,%20int,%20int))(float[] f, int off, int len) |
| void | **ImageInputStream.**[**readFully**](http://docs.google.com/javax/imageio/stream/ImageInputStream.html#readFully(float%5B%5D,%20int,%20int))(float[] f, int off, int len)            Reads len floats (32-bit IEEE single-precision floats) from the stream according to the current byte order, and stores them into f starting at index off. |
| void | **ImageInputStreamImpl.**[**readFully**](http://docs.google.com/javax/imageio/stream/ImageInputStreamImpl.html#readFully(int%5B%5D,%20int,%20int))(int[] i, int off, int len) |
| void | **ImageInputStream.**[**readFully**](http://docs.google.com/javax/imageio/stream/ImageInputStream.html#readFully(int%5B%5D,%20int,%20int))(int[] i, int off, int len)            Reads len ints (signed 32-bit integers) from the stream according to the current byte order, and stores them into i starting at index off. |
| void | **ImageInputStreamImpl.**[**readFully**](http://docs.google.com/javax/imageio/stream/ImageInputStreamImpl.html#readFully(long%5B%5D,%20int,%20int))(long[] l, int off, int len) |
| void | **ImageInputStream.**[**readFully**](http://docs.google.com/javax/imageio/stream/ImageInputStream.html#readFully(long%5B%5D,%20int,%20int))(long[] l, int off, int len)            Reads len longs (signed 64-bit integers) from the stream according to the current byte order, and stores them into l starting at index off. |
| void | **ImageInputStreamImpl.**[**readFully**](http://docs.google.com/javax/imageio/stream/ImageInputStreamImpl.html#readFully(short%5B%5D,%20int,%20int))(short[] s, int off, int len) |
| void | **ImageInputStream.**[**readFully**](http://docs.google.com/javax/imageio/stream/ImageInputStream.html#readFully(short%5B%5D,%20int,%20int))(short[] s, int off, int len)            Reads len shorts (signed 16-bit integers) from the stream according to the current byte order, and stores them into s starting at index off. |
| int | **ImageInputStreamImpl.**[**readInt**](http://docs.google.com/javax/imageio/stream/ImageInputStreamImpl.html#readInt())() |
| int | **ImageInputStream.**[**readInt**](http://docs.google.com/javax/imageio/stream/ImageInputStream.html#readInt())()            Reads 4 bytes from the stream, and (conceptually) concatenates them according to the current byte order and returns the result as an int. |
| [String](http://docs.google.com/java/lang/String.html) | **ImageInputStreamImpl.**[**readLine**](http://docs.google.com/javax/imageio/stream/ImageInputStreamImpl.html#readLine())() |
| [String](http://docs.google.com/java/lang/String.html) | **ImageInputStream.**[**readLine**](http://docs.google.com/javax/imageio/stream/ImageInputStream.html#readLine())()            Reads the next line of text from the input stream. |
| long | **ImageInputStreamImpl.**[**readLong**](http://docs.google.com/javax/imageio/stream/ImageInputStreamImpl.html#readLong())() |
| long | **ImageInputStream.**[**readLong**](http://docs.google.com/javax/imageio/stream/ImageInputStream.html#readLong())()            Reads 8 bytes from the stream, and (conceptually) concatenates them according to the current byte order and returns the result as a long. |
| short | **ImageInputStreamImpl.**[**readShort**](http://docs.google.com/javax/imageio/stream/ImageInputStreamImpl.html#readShort())() |
| short | **ImageInputStream.**[**readShort**](http://docs.google.com/javax/imageio/stream/ImageInputStream.html#readShort())()            Reads two bytes from the stream, and (conceptually) concatenates them according to the current byte order, and returns the result as a short value. |
| int | **ImageInputStreamImpl.**[**readUnsignedByte**](http://docs.google.com/javax/imageio/stream/ImageInputStreamImpl.html#readUnsignedByte())() |
| int | **ImageInputStream.**[**readUnsignedByte**](http://docs.google.com/javax/imageio/stream/ImageInputStream.html#readUnsignedByte())()            Reads a byte from the stream, and (conceptually) converts it to an int, masks it with 0xff in order to strip off any sign-extension bits, and returns it as a byte value. |
| long | **ImageInputStreamImpl.**[**readUnsignedInt**](http://docs.google.com/javax/imageio/stream/ImageInputStreamImpl.html#readUnsignedInt())() |
| long | **ImageInputStream.**[**readUnsignedInt**](http://docs.google.com/javax/imageio/stream/ImageInputStream.html#readUnsignedInt())()            Reads 4 bytes from the stream, and (conceptually) concatenates them according to the current byte order, converts the result to a long, masks it with 0xffffffffL in order to strip off any sign-extension bits, and returns the result as an unsigned long value. |
| int | **ImageInputStreamImpl.**[**readUnsignedShort**](http://docs.google.com/javax/imageio/stream/ImageInputStreamImpl.html#readUnsignedShort())() |
| int | **ImageInputStream.**[**readUnsignedShort**](http://docs.google.com/javax/imageio/stream/ImageInputStream.html#readUnsignedShort())()            Reads two bytes from the stream, and (conceptually) concatenates them according to the current byte order, converts the resulting value to an int, masks it with 0xffff in order to strip off any sign-extension buts, and returns the result as an unsigned int value. |
| [String](http://docs.google.com/java/lang/String.html) | **ImageInputStreamImpl.**[**readUTF**](http://docs.google.com/javax/imageio/stream/ImageInputStreamImpl.html#readUTF())() |
| [String](http://docs.google.com/java/lang/String.html) | **ImageInputStream.**[**readUTF**](http://docs.google.com/javax/imageio/stream/ImageInputStream.html#readUTF())()            Reads in a string that has been encoded using a [modified UTF-8](http://docs.google.com/java/io/DataInput.html#modified-utf-8) format. |
| void | **ImageInputStreamImpl.**[**reset**](http://docs.google.com/javax/imageio/stream/ImageInputStreamImpl.html#reset())()            Resets the current stream byte and bit positions from the stack of marked positions. |
| void | **ImageInputStream.**[**reset**](http://docs.google.com/javax/imageio/stream/ImageInputStream.html#reset())()            Returns the stream pointer to its previous position, including the bit offset, at the time of the most recent unmatched call to mark. |
| void | **FileImageOutputStream.**[**seek**](http://docs.google.com/javax/imageio/stream/FileImageOutputStream.html#seek(long))(long pos)            Sets the current stream position and resets the bit offset to 0. |
| void | **FileImageInputStream.**[**seek**](http://docs.google.com/javax/imageio/stream/FileImageInputStream.html#seek(long))(long pos) |
| void | **FileCacheImageOutputStream.**[**seek**](http://docs.google.com/javax/imageio/stream/FileCacheImageOutputStream.html#seek(long))(long pos)            Sets the current stream position and resets the bit offset to 0. |
| void | **ImageInputStreamImpl.**[**seek**](http://docs.google.com/javax/imageio/stream/ImageInputStreamImpl.html#seek(long))(long pos) |
| void | **ImageInputStream.**[**seek**](http://docs.google.com/javax/imageio/stream/ImageInputStream.html#seek(long))(long pos)            Sets the current stream position to the desired location. |
| void | **ImageInputStreamImpl.**[**setBitOffset**](http://docs.google.com/javax/imageio/stream/ImageInputStreamImpl.html#setBitOffset(int))(int bitOffset) |
| void | **ImageInputStream.**[**setBitOffset**](http://docs.google.com/javax/imageio/stream/ImageInputStream.html#setBitOffset(int))(int bitOffset)            Sets the bit offset to an integer between 0 and 7, inclusive. |
| int | **ImageInputStreamImpl.**[**skipBytes**](http://docs.google.com/javax/imageio/stream/ImageInputStreamImpl.html#skipBytes(int))(int n)            Advances the current stream position by calling seek(getStreamPosition() + n). |
| int | **ImageInputStream.**[**skipBytes**](http://docs.google.com/javax/imageio/stream/ImageInputStream.html#skipBytes(int))(int n)            Moves the stream position forward by a given number of bytes. |
| long | **ImageInputStreamImpl.**[**skipBytes**](http://docs.google.com/javax/imageio/stream/ImageInputStreamImpl.html#skipBytes(long))(long n)            Advances the current stream position by calling seek(getStreamPosition() + n). |
| long | **ImageInputStream.**[**skipBytes**](http://docs.google.com/javax/imageio/stream/ImageInputStream.html#skipBytes(long))(long n)            Moves the stream position forward by a given number of bytes. |
| void | **ImageOutputStreamImpl.**[**write**](http://docs.google.com/javax/imageio/stream/ImageOutputStreamImpl.html#write(byte%5B%5D))(byte[] b) |
| void | **ImageOutputStream.**[**write**](http://docs.google.com/javax/imageio/stream/ImageOutputStream.html#write(byte%5B%5D))(byte[] b)            Writes a sequence of bytes to the stream at the current position. |
| void | **FileImageOutputStream.**[**write**](http://docs.google.com/javax/imageio/stream/FileImageOutputStream.html#write(byte%5B%5D,%20int,%20int))(byte[] b, int off, int len) |
| void | **MemoryCacheImageOutputStream.**[**write**](http://docs.google.com/javax/imageio/stream/MemoryCacheImageOutputStream.html#write(byte%5B%5D,%20int,%20int))(byte[] b, int off, int len) |
| void | **FileCacheImageOutputStream.**[**write**](http://docs.google.com/javax/imageio/stream/FileCacheImageOutputStream.html#write(byte%5B%5D,%20int,%20int))(byte[] b, int off, int len) |
| abstract  void | **ImageOutputStreamImpl.**[**write**](http://docs.google.com/javax/imageio/stream/ImageOutputStreamImpl.html#write(byte%5B%5D,%20int,%20int))(byte[] b, int off, int len) |
| void | **ImageOutputStream.**[**write**](http://docs.google.com/javax/imageio/stream/ImageOutputStream.html#write(byte%5B%5D,%20int,%20int))(byte[] b, int off, int len)            Writes a sequence of bytes to the stream at the current position. |
| void | **FileImageOutputStream.**[**write**](http://docs.google.com/javax/imageio/stream/FileImageOutputStream.html#write(int))(int b) |
| void | **MemoryCacheImageOutputStream.**[**write**](http://docs.google.com/javax/imageio/stream/MemoryCacheImageOutputStream.html#write(int))(int b) |
| void | **FileCacheImageOutputStream.**[**write**](http://docs.google.com/javax/imageio/stream/FileCacheImageOutputStream.html#write(int))(int b) |
| abstract  void | **ImageOutputStreamImpl.**[**write**](http://docs.google.com/javax/imageio/stream/ImageOutputStreamImpl.html#write(int))(int b) |
| void | **ImageOutputStream.**[**write**](http://docs.google.com/javax/imageio/stream/ImageOutputStream.html#write(int))(int b)            Writes a single byte to the stream at the current position. |
| void | **ImageOutputStreamImpl.**[**writeBit**](http://docs.google.com/javax/imageio/stream/ImageOutputStreamImpl.html#writeBit(int))(int bit) |
| void | **ImageOutputStream.**[**writeBit**](http://docs.google.com/javax/imageio/stream/ImageOutputStream.html#writeBit(int))(int bit)            Writes a single bit, given by the least significant bit of the argument, to the stream at the current bit offset within the current byte position. |
| void | **ImageOutputStreamImpl.**[**writeBits**](http://docs.google.com/javax/imageio/stream/ImageOutputStreamImpl.html#writeBits(long,%20int))(long bits, int numBits) |
| void | **ImageOutputStream.**[**writeBits**](http://docs.google.com/javax/imageio/stream/ImageOutputStream.html#writeBits(long,%20int))(long bits, int numBits)            Writes a sequence of bits, given by the numBits least significant bits of the bits argument in left-to-right order, to the stream at the current bit offset within the current byte position. |
| void | **ImageOutputStreamImpl.**[**writeBoolean**](http://docs.google.com/javax/imageio/stream/ImageOutputStreamImpl.html#writeBoolean(boolean))(boolean v) |
| void | **ImageOutputStream.**[**writeBoolean**](http://docs.google.com/javax/imageio/stream/ImageOutputStream.html#writeBoolean(boolean))(boolean v)            Writes a boolean value to the stream. |
| void | **ImageOutputStreamImpl.**[**writeByte**](http://docs.google.com/javax/imageio/stream/ImageOutputStreamImpl.html#writeByte(int))(int v) |
| void | **ImageOutputStream.**[**writeByte**](http://docs.google.com/javax/imageio/stream/ImageOutputStream.html#writeByte(int))(int v)            Writes the 8 low-order bits of v to the stream. |
| void | **ImageOutputStreamImpl.**[**writeBytes**](http://docs.google.com/javax/imageio/stream/ImageOutputStreamImpl.html#writeBytes(java.lang.String))([String](http://docs.google.com/java/lang/String.html) s) |
| void | **ImageOutputStream.**[**writeBytes**](http://docs.google.com/javax/imageio/stream/ImageOutputStream.html#writeBytes(java.lang.String))([String](http://docs.google.com/java/lang/String.html) s)            Writes a string to the output stream. |
| void | **ImageOutputStreamImpl.**[**writeChar**](http://docs.google.com/javax/imageio/stream/ImageOutputStreamImpl.html#writeChar(int))(int v) |
| void | **ImageOutputStream.**[**writeChar**](http://docs.google.com/javax/imageio/stream/ImageOutputStream.html#writeChar(int))(int v)            This method is a synonym for [writeShort](http://docs.google.com/javax/imageio/stream/ImageOutputStream.html#writeShort(int)). |
| void | **ImageOutputStreamImpl.**[**writeChars**](http://docs.google.com/javax/imageio/stream/ImageOutputStreamImpl.html#writeChars(char%5B%5D,%20int,%20int))(char[] c, int off, int len) |
| void | **ImageOutputStream.**[**writeChars**](http://docs.google.com/javax/imageio/stream/ImageOutputStream.html#writeChars(char%5B%5D,%20int,%20int))(char[] c, int off, int len)            Writes a sequence of chars to the stream at the current position. |
| void | **ImageOutputStreamImpl.**[**writeChars**](http://docs.google.com/javax/imageio/stream/ImageOutputStreamImpl.html#writeChars(java.lang.String))([String](http://docs.google.com/java/lang/String.html) s) |
| void | **ImageOutputStream.**[**writeChars**](http://docs.google.com/javax/imageio/stream/ImageOutputStream.html#writeChars(java.lang.String))([String](http://docs.google.com/java/lang/String.html) s)            Writes a string to the output stream. |
| void | **ImageOutputStreamImpl.**[**writeDouble**](http://docs.google.com/javax/imageio/stream/ImageOutputStreamImpl.html#writeDouble(double))(double v) |
| void | **ImageOutputStream.**[**writeDouble**](http://docs.google.com/javax/imageio/stream/ImageOutputStream.html#writeDouble(double))(double v)            Writes a double value, which is comprised of four bytes, to the output stream. |
| void | **ImageOutputStreamImpl.**[**writeDoubles**](http://docs.google.com/javax/imageio/stream/ImageOutputStreamImpl.html#writeDoubles(double%5B%5D,%20int,%20int))(double[] d, int off, int len) |
| void | **ImageOutputStream.**[**writeDoubles**](http://docs.google.com/javax/imageio/stream/ImageOutputStream.html#writeDoubles(double%5B%5D,%20int,%20int))(double[] d, int off, int len)            Writes a sequence of doubles to the stream at the current position. |
| void | **ImageOutputStreamImpl.**[**writeFloat**](http://docs.google.com/javax/imageio/stream/ImageOutputStreamImpl.html#writeFloat(float))(float v) |
| void | **ImageOutputStream.**[**writeFloat**](http://docs.google.com/javax/imageio/stream/ImageOutputStream.html#writeFloat(float))(float v)            Writes a float value, which is comprised of four bytes, to the output stream. |
| void | **ImageOutputStreamImpl.**[**writeFloats**](http://docs.google.com/javax/imageio/stream/ImageOutputStreamImpl.html#writeFloats(float%5B%5D,%20int,%20int))(float[] f, int off, int len) |
| void | **ImageOutputStream.**[**writeFloats**](http://docs.google.com/javax/imageio/stream/ImageOutputStream.html#writeFloats(float%5B%5D,%20int,%20int))(float[] f, int off, int len)            Writes a sequence of floats to the stream at the current position. |
| void | **ImageOutputStreamImpl.**[**writeInt**](http://docs.google.com/javax/imageio/stream/ImageOutputStreamImpl.html#writeInt(int))(int v) |
| void | **ImageOutputStream.**[**writeInt**](http://docs.google.com/javax/imageio/stream/ImageOutputStream.html#writeInt(int))(int v)            Writes the 32 bits of v to the stream. |
| void | **ImageOutputStreamImpl.**[**writeInts**](http://docs.google.com/javax/imageio/stream/ImageOutputStreamImpl.html#writeInts(int%5B%5D,%20int,%20int))(int[] i, int off, int len) |
| void | **ImageOutputStream.**[**writeInts**](http://docs.google.com/javax/imageio/stream/ImageOutputStream.html#writeInts(int%5B%5D,%20int,%20int))(int[] i, int off, int len)            Writes a sequence of ints to the stream at the current position. |
| void | **ImageOutputStreamImpl.**[**writeLong**](http://docs.google.com/javax/imageio/stream/ImageOutputStreamImpl.html#writeLong(long))(long v) |
| void | **ImageOutputStream.**[**writeLong**](http://docs.google.com/javax/imageio/stream/ImageOutputStream.html#writeLong(long))(long v)            Writes the 64 bits of v to the stream. |
| void | **ImageOutputStreamImpl.**[**writeLongs**](http://docs.google.com/javax/imageio/stream/ImageOutputStreamImpl.html#writeLongs(long%5B%5D,%20int,%20int))(long[] l, int off, int len) |
| void | **ImageOutputStream.**[**writeLongs**](http://docs.google.com/javax/imageio/stream/ImageOutputStream.html#writeLongs(long%5B%5D,%20int,%20int))(long[] l, int off, int len)            Writes a sequence of longs to the stream at the current position. |
| void | **ImageOutputStreamImpl.**[**writeShort**](http://docs.google.com/javax/imageio/stream/ImageOutputStreamImpl.html#writeShort(int))(int v) |
| void | **ImageOutputStream.**[**writeShort**](http://docs.google.com/javax/imageio/stream/ImageOutputStream.html#writeShort(int))(int v)            Writes the 16 low-order bits of v to the stream. |
| void | **ImageOutputStreamImpl.**[**writeShorts**](http://docs.google.com/javax/imageio/stream/ImageOutputStreamImpl.html#writeShorts(short%5B%5D,%20int,%20int))(short[] s, int off, int len) |
| void | **ImageOutputStream.**[**writeShorts**](http://docs.google.com/javax/imageio/stream/ImageOutputStream.html#writeShorts(short%5B%5D,%20int,%20int))(short[] s, int off, int len)            Writes a sequence of shorts to the stream at the current position. |
| void | **ImageOutputStreamImpl.**[**writeUTF**](http://docs.google.com/javax/imageio/stream/ImageOutputStreamImpl.html#writeUTF(java.lang.String))([String](http://docs.google.com/java/lang/String.html) s) |
| void | **ImageOutputStream.**[**writeUTF**](http://docs.google.com/javax/imageio/stream/ImageOutputStream.html#writeUTF(java.lang.String))([String](http://docs.google.com/java/lang/String.html) s)            Writes two bytes of length information to the output stream in network byte order, followed by the [modified UTF-8](http://docs.google.com/java/io/DataInput.html#modified-utf-8) representation of every character in the string s. |

| Constructors in [javax.imageio.stream](http://docs.google.com/javax/imageio/stream/package-summary.html) that throw [IOException](http://docs.google.com/java/io/IOException.html) | |
| --- | --- |
| [**FileCacheImageInputStream**](http://docs.google.com/javax/imageio/stream/FileCacheImageInputStream.html#FileCacheImageInputStream(java.io.InputStream,%20java.io.File))([InputStream](http://docs.google.com/java/io/InputStream.html) stream, [File](http://docs.google.com/java/io/File.html) cacheDir)            Constructs a FileCacheImageInputStream that will read from a given InputStream. |
| [**FileCacheImageOutputStream**](http://docs.google.com/javax/imageio/stream/FileCacheImageOutputStream.html#FileCacheImageOutputStream(java.io.OutputStream,%20java.io.File))([OutputStream](http://docs.google.com/java/io/OutputStream.html) stream, [File](http://docs.google.com/java/io/File.html) cacheDir)            Constructs a FileCacheImageOutputStream that will write to a given outputStream. |
| [**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. |
| [**FileImageOutputStream**](http://docs.google.com/javax/imageio/stream/FileImageOutputStream.html#FileImageOutputStream(java.io.File))([File](http://docs.google.com/java/io/File.html) f)            Constructs a FileImageOutputStream that will write to a given File. |

| Uses of [IOException](http://docs.google.com/java/io/IOException.html) in [javax.management](http://docs.google.com/javax/management/package-summary.html) | |
| --- | --- |

| Methods in [javax.management](http://docs.google.com/javax/management/package-summary.html) that throw [IOException](http://docs.google.com/java/io/IOException.html) | |
| --- | --- |
| void | **MBeanServerConnection.**[**addNotificationListener**](http://docs.google.com/javax/management/MBeanServerConnection.html#addNotificationListener(javax.management.ObjectName,%20javax.management.NotificationListener,%20javax.management.NotificationFilter,%20java.lang.Object))([ObjectName](http://docs.google.com/javax/management/ObjectName.html) name, [NotificationListener](http://docs.google.com/javax/management/NotificationListener.html) listener, [NotificationFilter](http://docs.google.com/javax/management/NotificationFilter.html) filter, [Object](http://docs.google.com/java/lang/Object.html) handback)            Adds a listener to a registered MBean. |
| void | **MBeanServerConnection.**[**addNotificationListener**](http://docs.google.com/javax/management/MBeanServerConnection.html#addNotificationListener(javax.management.ObjectName,%20javax.management.ObjectName,%20javax.management.NotificationFilter,%20java.lang.Object))([ObjectName](http://docs.google.com/javax/management/ObjectName.html) name, [ObjectName](http://docs.google.com/javax/management/ObjectName.html) listener, [NotificationFilter](http://docs.google.com/javax/management/NotificationFilter.html) filter, [Object](http://docs.google.com/java/lang/Object.html) handback)            Adds a listener to a registered MBean. |
| [ObjectInstance](http://docs.google.com/javax/management/ObjectInstance.html) | **MBeanServerConnection.**[**createMBean**](http://docs.google.com/javax/management/MBeanServerConnection.html#createMBean(java.lang.String,%20javax.management.ObjectName))([String](http://docs.google.com/java/lang/String.html) className, [ObjectName](http://docs.google.com/javax/management/ObjectName.html) name)            Instantiates and registers an MBean in the MBean server. |
| [ObjectInstance](http://docs.google.com/javax/management/ObjectInstance.html) | **MBeanServerConnection.**[**createMBean**](http://docs.google.com/javax/management/MBeanServerConnection.html#createMBean(java.lang.String,%20javax.management.ObjectName,%20java.lang.Object%5B%5D,%20java.lang.String%5B%5D))([String](http://docs.google.com/java/lang/String.html) className, [ObjectName](http://docs.google.com/javax/management/ObjectName.html) name, [Object](http://docs.google.com/java/lang/Object.html)[] params, [String](http://docs.google.com/java/lang/String.html)[] signature)            Instantiates and registers an MBean in the MBean server. |
| [ObjectInstance](http://docs.google.com/javax/management/ObjectInstance.html) | **MBeanServerConnection.**[**createMBean**](http://docs.google.com/javax/management/MBeanServerConnection.html#createMBean(java.lang.String,%20javax.management.ObjectName,%20javax.management.ObjectName))([String](http://docs.google.com/java/lang/String.html) className, [ObjectName](http://docs.google.com/javax/management/ObjectName.html) name, [ObjectName](http://docs.google.com/javax/management/ObjectName.html) loaderName)            Instantiates and registers an MBean in the MBean server. |
| [ObjectInstance](http://docs.google.com/javax/management/ObjectInstance.html) | **MBeanServerConnection.**[**createMBean**](http://docs.google.com/javax/management/MBeanServerConnection.html#createMBean(java.lang.String,%20javax.management.ObjectName,%20javax.management.ObjectName,%20java.lang.Object%5B%5D,%20java.lang.String%5B%5D))([String](http://docs.google.com/java/lang/String.html) className, [ObjectName](http://docs.google.com/javax/management/ObjectName.html) name, [ObjectName](http://docs.google.com/javax/management/ObjectName.html) loaderName, [Object](http://docs.google.com/java/lang/Object.html)[] params, [String](http://docs.google.com/java/lang/String.html)[] signature)            Instantiates and registers an MBean in the MBean server. |
| [Object](http://docs.google.com/java/lang/Object.html) | **MBeanServerConnection.**[**getAttribute**](http://docs.google.com/javax/management/MBeanServerConnection.html#getAttribute(javax.management.ObjectName,%20java.lang.String))([ObjectName](http://docs.google.com/javax/management/ObjectName.html) name, [String](http://docs.google.com/java/lang/String.html) attribute)            Gets the value of a specific attribute of a named MBean. |
| [AttributeList](http://docs.google.com/javax/management/AttributeList.html) | **MBeanServerConnection.**[**getAttributes**](http://docs.google.com/javax/management/MBeanServerConnection.html#getAttributes(javax.management.ObjectName,%20java.lang.String%5B%5D))([ObjectName](http://docs.google.com/javax/management/ObjectName.html) name, [String](http://docs.google.com/java/lang/String.html)[] attributes)            Enables the values of several attributes of a named MBean. |
| [String](http://docs.google.com/java/lang/String.html) | **MBeanServerConnection.**[**getDefaultDomain**](http://docs.google.com/javax/management/MBeanServerConnection.html#getDefaultDomain())()            Returns the default domain used for naming the MBean. |
| [String](http://docs.google.com/java/lang/String.html)[] | **MBeanServerConnection.**[**getDomains**](http://docs.google.com/javax/management/MBeanServerConnection.html#getDomains())()            Returns the list of domains in which any MBean is currently registered. |
| [Integer](http://docs.google.com/java/lang/Integer.html) | **MBeanServerConnection.**[**getMBeanCount**](http://docs.google.com/javax/management/MBeanServerConnection.html#getMBeanCount())()            Returns the number of MBeans registered in the MBean server. |
| [MBeanInfo](http://docs.google.com/javax/management/MBeanInfo.html) | **MBeanServerConnection.**[**getMBeanInfo**](http://docs.google.com/javax/management/MBeanServerConnection.html#getMBeanInfo(javax.management.ObjectName))([ObjectName](http://docs.google.com/javax/management/ObjectName.html) name)            This method discovers the attributes and operations that an MBean exposes for management. |
| [ObjectInstance](http://docs.google.com/javax/management/ObjectInstance.html) | **MBeanServerConnection.**[**getObjectInstance**](http://docs.google.com/javax/management/MBeanServerConnection.html#getObjectInstance(javax.management.ObjectName))([ObjectName](http://docs.google.com/javax/management/ObjectName.html) name)            Gets the ObjectInstance for a given MBean registered with the MBean server. |
| [Object](http://docs.google.com/java/lang/Object.html) | **MBeanServerConnection.**[**invoke**](http://docs.google.com/javax/management/MBeanServerConnection.html#invoke(javax.management.ObjectName,%20java.lang.String,%20java.lang.Object%5B%5D,%20java.lang.String%5B%5D))([ObjectName](http://docs.google.com/javax/management/ObjectName.html) name, [String](http://docs.google.com/java/lang/String.html) operationName, [Object](http://docs.google.com/java/lang/Object.html)[] params, [String](http://docs.google.com/java/lang/String.html)[] signature)            Invokes an operation on an MBean. |
| boolean | **MBeanServerConnection.**[**isInstanceOf**](http://docs.google.com/javax/management/MBeanServerConnection.html#isInstanceOf(javax.management.ObjectName,%20java.lang.String))([ObjectName](http://docs.google.com/javax/management/ObjectName.html) name, [String](http://docs.google.com/java/lang/String.html) className)            Returns true if the MBean specified is an instance of the specified class, false otherwise. |
| boolean | **MBeanServerConnection.**[**isRegistered**](http://docs.google.com/javax/management/MBeanServerConnection.html#isRegistered(javax.management.ObjectName))([ObjectName](http://docs.google.com/javax/management/ObjectName.html) name)            Checks whether an MBean, identified by its object name, is already registered with the MBean server. |
| [Set](http://docs.google.com/java/util/Set.html)<[ObjectInstance](http://docs.google.com/javax/management/ObjectInstance.html)> | **MBeanServerConnection.**[**queryMBeans**](http://docs.google.com/javax/management/MBeanServerConnection.html#queryMBeans(javax.management.ObjectName,%20javax.management.QueryExp))([ObjectName](http://docs.google.com/javax/management/ObjectName.html) name, [QueryExp](http://docs.google.com/javax/management/QueryExp.html) query)            Gets MBeans controlled by the MBean server. |
| [Set](http://docs.google.com/java/util/Set.html)<[ObjectName](http://docs.google.com/javax/management/ObjectName.html)> | **MBeanServerConnection.**[**queryNames**](http://docs.google.com/javax/management/MBeanServerConnection.html#queryNames(javax.management.ObjectName,%20javax.management.QueryExp))([ObjectName](http://docs.google.com/javax/management/ObjectName.html) name, [QueryExp](http://docs.google.com/javax/management/QueryExp.html) query)            Gets the names of MBeans controlled by the MBean server. |
| void | **MBeanServerConnection.**[**removeNotificationListener**](http://docs.google.com/javax/management/MBeanServerConnection.html#removeNotificationListener(javax.management.ObjectName,%20javax.management.NotificationListener))([ObjectName](http://docs.google.com/javax/management/ObjectName.html) name, [NotificationListener](http://docs.google.com/javax/management/NotificationListener.html) listener)            Removes a listener from a registered MBean. |
| void | **MBeanServerConnection.**[**removeNotificationListener**](http://docs.google.com/javax/management/MBeanServerConnection.html#removeNotificationListener(javax.management.ObjectName,%20javax.management.NotificationListener,%20javax.management.NotificationFilter,%20java.lang.Object))([ObjectName](http://docs.google.com/javax/management/ObjectName.html) name, [NotificationListener](http://docs.google.com/javax/management/NotificationListener.html) listener, [NotificationFilter](http://docs.google.com/javax/management/NotificationFilter.html) filter, [Object](http://docs.google.com/java/lang/Object.html) handback)            Removes a listener from a registered MBean. |
| void | **MBeanServerConnection.**[**removeNotificationListener**](http://docs.google.com/javax/management/MBeanServerConnection.html#removeNotificationListener(javax.management.ObjectName,%20javax.management.ObjectName))([ObjectName](http://docs.google.com/javax/management/ObjectName.html) name, [ObjectName](http://docs.google.com/javax/management/ObjectName.html) listener)            Removes a listener from a registered MBean. |
| void | **MBeanServerConnection.**[**removeNotificationListener**](http://docs.google.com/javax/management/MBeanServerConnection.html#removeNotificationListener(javax.management.ObjectName,%20javax.management.ObjectName,%20javax.management.NotificationFilter,%20java.lang.Object))([ObjectName](http://docs.google.com/javax/management/ObjectName.html) name, [ObjectName](http://docs.google.com/javax/management/ObjectName.html) listener, [NotificationFilter](http://docs.google.com/javax/management/NotificationFilter.html) filter, [Object](http://docs.google.com/java/lang/Object.html) handback)            Removes a listener from a registered MBean. |
| void | **MBeanServerConnection.**[**setAttribute**](http://docs.google.com/javax/management/MBeanServerConnection.html#setAttribute(javax.management.ObjectName,%20javax.management.Attribute))([ObjectName](http://docs.google.com/javax/management/ObjectName.html) name, [Attribute](http://docs.google.com/javax/management/Attribute.html) attribute)            Sets the value of a specific attribute of a named MBean. |
| [AttributeList](http://docs.google.com/javax/management/AttributeList.html) | **MBeanServerConnection.**[**setAttributes**](http://docs.google.com/javax/management/MBeanServerConnection.html#setAttributes(javax.management.ObjectName,%20javax.management.AttributeList))([ObjectName](http://docs.google.com/javax/management/ObjectName.html) name, [AttributeList](http://docs.google.com/javax/management/AttributeList.html) attributes)            Sets the values of several attributes of a named MBean. |
| void | **MBeanServerConnection.**[**unregisterMBean**](http://docs.google.com/javax/management/MBeanServerConnection.html#unregisterMBean(javax.management.ObjectName))([ObjectName](http://docs.google.com/javax/management/ObjectName.html) name)            Unregisters an MBean from the MBean server. |

| Uses of [IOException](http://docs.google.com/java/io/IOException.html) in [javax.management.loading](http://docs.google.com/javax/management/loading/package-summary.html) | |
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| Methods in [javax.management.loading](http://docs.google.com/javax/management/loading/package-summary.html) that throw [IOException](http://docs.google.com/java/io/IOException.html) | |
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| [Enumeration](http://docs.google.com/java/util/Enumeration.html)<[URL](http://docs.google.com/java/net/URL.html)> | **MLetMBean.**[**getResources**](http://docs.google.com/javax/management/loading/MLetMBean.html#getResources(java.lang.String))([String](http://docs.google.com/java/lang/String.html) name)            Finds all the resources with the given name. |
| void | **MLet.**[**readExternal**](http://docs.google.com/javax/management/loading/MLet.html#readExternal(java.io.ObjectInput))([ObjectInput](http://docs.google.com/java/io/ObjectInput.html) in)            Restore this MLet's contents from the given [ObjectInput](http://docs.google.com/java/io/ObjectInput.html). |
| void | **MLet.**[**writeExternal**](http://docs.google.com/javax/management/loading/MLet.html#writeExternal(java.io.ObjectOutput))([ObjectOutput](http://docs.google.com/java/io/ObjectOutput.html) out)            Save this MLet's contents to the given [ObjectOutput](http://docs.google.com/java/io/ObjectOutput.html). |

| Uses of [IOException](http://docs.google.com/java/io/IOException.html) in [javax.management.remote](http://docs.google.com/javax/management/remote/package-summary.html) | |
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| Subclasses of [IOException](http://docs.google.com/java/io/IOException.html) in [javax.management.remote](http://docs.google.com/javax/management/remote/package-summary.html) | |
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| class | [**JMXProviderException**](http://docs.google.com/javax/management/remote/JMXProviderException.html)            Exception thrown by [JMXConnectorFactory](http://docs.google.com/javax/management/remote/JMXConnectorFactory.html) and [JMXConnectorServerFactory](http://docs.google.com/javax/management/remote/JMXConnectorServerFactory.html) when a provider exists for the required protocol but cannot be used for some reason. |
| class | [**JMXServerErrorException**](http://docs.google.com/javax/management/remote/JMXServerErrorException.html)            Exception thrown as the result of a remote [MBeanServer](http://docs.google.com/javax/management/MBeanServer.html) method invocation when an Error is thrown while processing the invocation in the remote MBean server. |

| Methods in [javax.management.remote](http://docs.google.com/javax/management/remote/package-summary.html) that throw [IOException](http://docs.google.com/java/io/IOException.html) | |
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| void | **JMXConnector.**[**close**](http://docs.google.com/javax/management/remote/JMXConnector.html#close())()            Closes the client connection to its server. |
| void | **JMXConnector.**[**connect**](http://docs.google.com/javax/management/remote/JMXConnector.html#connect())()            Establishes the connection to the connector server. |
| static [JMXConnector](http://docs.google.com/javax/management/remote/JMXConnector.html) | **JMXConnectorFactory.**[**connect**](http://docs.google.com/javax/management/remote/JMXConnectorFactory.html#connect(javax.management.remote.JMXServiceURL))([JMXServiceURL](http://docs.google.com/javax/management/remote/JMXServiceURL.html) serviceURL)            Creates a connection to the connector server at the given address. |
| static [JMXConnector](http://docs.google.com/javax/management/remote/JMXConnector.html) | **JMXConnectorFactory.**[**connect**](http://docs.google.com/javax/management/remote/JMXConnectorFactory.html#connect(javax.management.remote.JMXServiceURL,%20java.util.Map))([JMXServiceURL](http://docs.google.com/javax/management/remote/JMXServiceURL.html) serviceURL, [Map](http://docs.google.com/java/util/Map.html)<[String](http://docs.google.com/java/lang/String.html),?> environment)            Creates a connection to the connector server at the given address. |
| void | **JMXConnector.**[**connect**](http://docs.google.com/javax/management/remote/JMXConnector.html#connect(java.util.Map))([Map](http://docs.google.com/java/util/Map.html)<[String](http://docs.google.com/java/lang/String.html),?> env)            Establishes the connection to the connector server. |
| [String](http://docs.google.com/java/lang/String.html) | **JMXConnector.**[**getConnectionId**](http://docs.google.com/javax/management/remote/JMXConnector.html#getConnectionId())()            Gets this connection's ID from the connector server. |
| [MBeanServerConnection](http://docs.google.com/javax/management/MBeanServerConnection.html) | **JMXConnector.**[**getMBeanServerConnection**](http://docs.google.com/javax/management/remote/JMXConnector.html#getMBeanServerConnection())()            Returns an MBeanServerConnection object representing a remote MBean server. |
| [MBeanServerConnection](http://docs.google.com/javax/management/MBeanServerConnection.html) | **JMXConnector.**[**getMBeanServerConnection**](http://docs.google.com/javax/management/remote/JMXConnector.html#getMBeanServerConnection(javax.security.auth.Subject))([Subject](http://docs.google.com/javax/security/auth/Subject.html) delegationSubject)            Returns an MBeanServerConnection object representing a remote MBean server on which operations are performed on behalf of the supplied delegation subject. |
| [JMXConnector](http://docs.google.com/javax/management/remote/JMXConnector.html) | **JMXConnectorProvider.**[**newJMXConnector**](http://docs.google.com/javax/management/remote/JMXConnectorProvider.html#newJMXConnector(javax.management.remote.JMXServiceURL,%20java.util.Map))([JMXServiceURL](http://docs.google.com/javax/management/remote/JMXServiceURL.html) serviceURL, [Map](http://docs.google.com/java/util/Map.html)<[String](http://docs.google.com/java/lang/String.html),?> environment)            Creates a new connector client that is ready to connect to the connector server at the given address. |
| static [JMXConnector](http://docs.google.com/javax/management/remote/JMXConnector.html) | **JMXConnectorFactory.**[**newJMXConnector**](http://docs.google.com/javax/management/remote/JMXConnectorFactory.html#newJMXConnector(javax.management.remote.JMXServiceURL,%20java.util.Map))([JMXServiceURL](http://docs.google.com/javax/management/remote/JMXServiceURL.html) serviceURL, [Map](http://docs.google.com/java/util/Map.html)<[String](http://docs.google.com/java/lang/String.html),?> environment)            Creates a connector client for the connector server at the given address. |
| [JMXConnectorServer](http://docs.google.com/javax/management/remote/JMXConnectorServer.html) | **JMXConnectorServerProvider.**[**newJMXConnectorServer**](http://docs.google.com/javax/management/remote/JMXConnectorServerProvider.html#newJMXConnectorServer(javax.management.remote.JMXServiceURL,%20java.util.Map,%20javax.management.MBeanServer))([JMXServiceURL](http://docs.google.com/javax/management/remote/JMXServiceURL.html) serviceURL, [Map](http://docs.google.com/java/util/Map.html)<[String](http://docs.google.com/java/lang/String.html),?> environment, [MBeanServer](http://docs.google.com/javax/management/MBeanServer.html) mbeanServer)            Creates a new connector server at the given address. |
| static [JMXConnectorServer](http://docs.google.com/javax/management/remote/JMXConnectorServer.html) | **JMXConnectorServerFactory.**[**newJMXConnectorServer**](http://docs.google.com/javax/management/remote/JMXConnectorServerFactory.html#newJMXConnectorServer(javax.management.remote.JMXServiceURL,%20java.util.Map,%20javax.management.MBeanServer))([JMXServiceURL](http://docs.google.com/javax/management/remote/JMXServiceURL.html) serviceURL, [Map](http://docs.google.com/java/util/Map.html)<[String](http://docs.google.com/java/lang/String.html),?> environment, [MBeanServer](http://docs.google.com/javax/management/MBeanServer.html) mbeanServer)            Creates a connector server at the given address. |
| void | **JMXConnectorServerMBean.**[**start**](http://docs.google.com/javax/management/remote/JMXConnectorServerMBean.html#start())()            Activates the connector server, that is, starts listening for client connections. |
| void | **JMXConnectorServerMBean.**[**stop**](http://docs.google.com/javax/management/remote/JMXConnectorServerMBean.html#stop())()            Deactivates the connector server, that is, stops listening for client connections. |
| [JMXConnector](http://docs.google.com/javax/management/remote/JMXConnector.html) | **JMXConnectorServer.**[**toJMXConnector**](http://docs.google.com/javax/management/remote/JMXConnectorServer.html#toJMXConnector(java.util.Map))([Map](http://docs.google.com/java/util/Map.html)<[String](http://docs.google.com/java/lang/String.html),?> env)            Returns a client stub for this connector server. |
| [JMXConnector](http://docs.google.com/javax/management/remote/JMXConnector.html) | **JMXConnectorServerMBean.**[**toJMXConnector**](http://docs.google.com/javax/management/remote/JMXConnectorServerMBean.html#toJMXConnector(java.util.Map))([Map](http://docs.google.com/java/util/Map.html)<[String](http://docs.google.com/java/lang/String.html),?> env)            Returns a client stub for this connector server. |

| Uses of [IOException](http://docs.google.com/java/io/IOException.html) in [javax.management.remote.rmi](http://docs.google.com/javax/management/remote/rmi/package-summary.html) | |
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| Methods in [javax.management.remote.rmi](http://docs.google.com/javax/management/remote/rmi/package-summary.html) that throw [IOException](http://docs.google.com/java/io/IOException.html) | |
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| void | **RMIConnectionImpl\_Stub.**[**addNotificationListener**](http://docs.google.com/javax/management/remote/rmi/RMIConnectionImpl_Stub.html#addNotificationListener(javax.management.ObjectName,%20javax.management.ObjectName,%20java.rmi.MarshalledObject,%20java.rmi.MarshalledObject,%20javax.security.auth.Subject))([ObjectName](http://docs.google.com/javax/management/ObjectName.html) $param\_ObjectName\_1, [ObjectName](http://docs.google.com/javax/management/ObjectName.html) $param\_ObjectName\_2, [MarshalledObject](http://docs.google.com/java/rmi/MarshalledObject.html) $param\_MarshalledObject\_3, [MarshalledObject](http://docs.google.com/java/rmi/MarshalledObject.html) $param\_MarshalledObject\_4, [Subject](http://docs.google.com/javax/security/auth/Subject.html) $param\_Subject\_5) |
| void | **RMIConnectionImpl.**[**addNotificationListener**](http://docs.google.com/javax/management/remote/rmi/RMIConnectionImpl.html#addNotificationListener(javax.management.ObjectName,%20javax.management.ObjectName,%20java.rmi.MarshalledObject,%20java.rmi.MarshalledObject,%20javax.security.auth.Subject))([ObjectName](http://docs.google.com/javax/management/ObjectName.html) name, [ObjectName](http://docs.google.com/javax/management/ObjectName.html) listener, [MarshalledObject](http://docs.google.com/java/rmi/MarshalledObject.html) filter, [MarshalledObject](http://docs.google.com/java/rmi/MarshalledObject.html) handback, [Subject](http://docs.google.com/javax/security/auth/Subject.html) delegationSubject) |
| void | **RMIConnection.**[**addNotificationListener**](http://docs.google.com/javax/management/remote/rmi/RMIConnection.html#addNotificationListener(javax.management.ObjectName,%20javax.management.ObjectName,%20java.rmi.MarshalledObject,%20java.rmi.MarshalledObject,%20javax.security.auth.Subject))([ObjectName](http://docs.google.com/javax/management/ObjectName.html) name, [ObjectName](http://docs.google.com/javax/management/ObjectName.html) listener, [MarshalledObject](http://docs.google.com/java/rmi/MarshalledObject.html) filter, [MarshalledObject](http://docs.google.com/java/rmi/MarshalledObject.html) handback, [Subject](http://docs.google.com/javax/security/auth/Subject.html) delegationSubject)            Handles the method [MBeanServerConnection.addNotificationListener(ObjectName, ObjectName, NotificationFilter, Object)](http://docs.google.com/javax/management/MBeanServerConnection.html#addNotificationListener(javax.management.ObjectName,%20javax.management.ObjectName,%20javax.management.NotificationFilter,%20java.lang.Object)). |
| [Integer](http://docs.google.com/java/lang/Integer.html)[] | **RMIConnectionImpl\_Stub.**[**addNotificationListeners**](http://docs.google.com/javax/management/remote/rmi/RMIConnectionImpl_Stub.html#addNotificationListeners(javax.management.ObjectName%5B%5D,%20java.rmi.MarshalledObject%5B%5D,%20javax.security.auth.Subject%5B%5D))([ObjectName](http://docs.google.com/javax/management/ObjectName.html)[] $param\_arrayOf\_ObjectName\_1, [MarshalledObject](http://docs.google.com/java/rmi/MarshalledObject.html)[] $param\_arrayOf\_MarshalledObject\_2, [Subject](http://docs.google.com/javax/security/auth/Subject.html)[] $param\_arrayOf\_Subject\_3) |
| [Integer](http://docs.google.com/java/lang/Integer.html)[] | **RMIConnectionImpl.**[**addNotificationListeners**](http://docs.google.com/javax/management/remote/rmi/RMIConnectionImpl.html#addNotificationListeners(javax.management.ObjectName%5B%5D,%20java.rmi.MarshalledObject%5B%5D,%20javax.security.auth.Subject%5B%5D))([ObjectName](http://docs.google.com/javax/management/ObjectName.html)[] names, [MarshalledObject](http://docs.google.com/java/rmi/MarshalledObject.html)[] filters, [Subject](http://docs.google.com/javax/security/auth/Subject.html)[] delegationSubjects) |
| [Integer](http://docs.google.com/java/lang/Integer.html)[] | **RMIConnection.**[**addNotificationListeners**](http://docs.google.com/javax/management/remote/rmi/RMIConnection.html#addNotificationListeners(javax.management.ObjectName%5B%5D,%20java.rmi.MarshalledObject%5B%5D,%20javax.security.auth.Subject%5B%5D))([ObjectName](http://docs.google.com/javax/management/ObjectName.html)[] names, [MarshalledObject](http://docs.google.com/java/rmi/MarshalledObject.html)[] filters, [Subject](http://docs.google.com/javax/security/auth/Subject.html)[] delegationSubjects)            Handles the method [MBeanServerConnection.addNotificationListener(ObjectName, NotificationListener, NotificationFilter, Object)](http://docs.google.com/javax/management/MBeanServerConnection.html#addNotificationListener(javax.management.ObjectName,%20javax.management.NotificationListener,%20javax.management.NotificationFilter,%20java.lang.Object)). |
| protected  void | **RMIServerImpl.**[**clientClosed**](http://docs.google.com/javax/management/remote/rmi/RMIServerImpl.html#clientClosed(javax.management.remote.rmi.RMIConnection))([RMIConnection](http://docs.google.com/javax/management/remote/rmi/RMIConnection.html) client)            Method called when a client connection created by [makeClient](http://docs.google.com/javax/management/remote/rmi/RMIServerImpl.html#makeClient(java.lang.String,%20javax.security.auth.Subject)) is closed. |
| void | **RMIConnectionImpl\_Stub.**[**close**](http://docs.google.com/javax/management/remote/rmi/RMIConnectionImpl_Stub.html#close())() |
| void | **RMIConnectionImpl.**[**close**](http://docs.google.com/javax/management/remote/rmi/RMIConnectionImpl.html#close())() |
| void | **RMIConnector.**[**close**](http://docs.google.com/javax/management/remote/rmi/RMIConnector.html#close())() |
| void | **RMIConnection.**[**close**](http://docs.google.com/javax/management/remote/rmi/RMIConnection.html#close())()            Closes this connection. |
| void | **RMIServerImpl.**[**close**](http://docs.google.com/javax/management/remote/rmi/RMIServerImpl.html#close())()            Closes this connection server. |
| protected  void | **RMIIIOPServerImpl.**[**closeClient**](http://docs.google.com/javax/management/remote/rmi/RMIIIOPServerImpl.html#closeClient(javax.management.remote.rmi.RMIConnection))([RMIConnection](http://docs.google.com/javax/management/remote/rmi/RMIConnection.html) client) |
| protected  void | **RMIJRMPServerImpl.**[**closeClient**](http://docs.google.com/javax/management/remote/rmi/RMIJRMPServerImpl.html#closeClient(javax.management.remote.rmi.RMIConnection))([RMIConnection](http://docs.google.com/javax/management/remote/rmi/RMIConnection.html) client) |
| protected abstract  void | **RMIServerImpl.**[**closeClient**](http://docs.google.com/javax/management/remote/rmi/RMIServerImpl.html#closeClient(javax.management.remote.rmi.RMIConnection))([RMIConnection](http://docs.google.com/javax/management/remote/rmi/RMIConnection.html) client)            Closes a client connection made by [makeClient](http://docs.google.com/javax/management/remote/rmi/RMIServerImpl.html#makeClient(java.lang.String,%20javax.security.auth.Subject)). |
| protected  void | **RMIIIOPServerImpl.**[**closeServer**](http://docs.google.com/javax/management/remote/rmi/RMIIIOPServerImpl.html#closeServer())()            Called by [RMIServerImpl.close()](http://docs.google.com/javax/management/remote/rmi/RMIServerImpl.html#close()) to close the connector server by unexporting this object. |
| protected  void | **RMIJRMPServerImpl.**[**closeServer**](http://docs.google.com/javax/management/remote/rmi/RMIJRMPServerImpl.html#closeServer())()            Called by [RMIServerImpl.close()](http://docs.google.com/javax/management/remote/rmi/RMIServerImpl.html#close()) to close the connector server by unexporting this object. |
| protected abstract  void | **RMIServerImpl.**[**closeServer**](http://docs.google.com/javax/management/remote/rmi/RMIServerImpl.html#closeServer())()            Called by [RMIServerImpl.close()](http://docs.google.com/javax/management/remote/rmi/RMIServerImpl.html#close()) to close the connector server. |
| void | **RMIConnector.**[**connect**](http://docs.google.com/javax/management/remote/rmi/RMIConnector.html#connect())() |
| void | **RMIConnector.**[**connect**](http://docs.google.com/javax/management/remote/rmi/RMIConnector.html#connect(java.util.Map))([Map](http://docs.google.com/java/util/Map.html)<[String](http://docs.google.com/java/lang/String.html),?> environment) |
| [ObjectInstance](http://docs.google.com/javax/management/ObjectInstance.html) | **RMIConnectionImpl\_Stub.**[**createMBean**](http://docs.google.com/javax/management/remote/rmi/RMIConnectionImpl_Stub.html#createMBean(java.lang.String,%20javax.management.ObjectName,%20java.rmi.MarshalledObject,%20java.lang.String%5B%5D,%20javax.security.auth.Subject))([String](http://docs.google.com/java/lang/String.html) $param\_String\_1, [ObjectName](http://docs.google.com/javax/management/ObjectName.html) $param\_ObjectName\_2, [MarshalledObject](http://docs.google.com/java/rmi/MarshalledObject.html) $param\_MarshalledObject\_3, [String](http://docs.google.com/java/lang/String.html)[] $param\_arrayOf\_String\_4, [Subject](http://docs.google.com/javax/security/auth/Subject.html) $param\_Subject\_5) |
| [ObjectInstance](http://docs.google.com/javax/management/ObjectInstance.html) | **RMIConnectionImpl.**[**createMBean**](http://docs.google.com/javax/management/remote/rmi/RMIConnectionImpl.html#createMBean(java.lang.String,%20javax.management.ObjectName,%20java.rmi.MarshalledObject,%20java.lang.String%5B%5D,%20javax.security.auth.Subject))([String](http://docs.google.com/java/lang/String.html) className, [ObjectName](http://docs.google.com/javax/management/ObjectName.html) name, [MarshalledObject](http://docs.google.com/java/rmi/MarshalledObject.html) params, [String](http://docs.google.com/java/lang/String.html)[] signature, [Subject](http://docs.google.com/javax/security/auth/Subject.html) delegationSubject) |
| [ObjectInstance](http://docs.google.com/javax/management/ObjectInstance.html) | **RMIConnection.**[**createMBean**](http://docs.google.com/javax/management/remote/rmi/RMIConnection.html#createMBean(java.lang.String,%20javax.management.ObjectName,%20java.rmi.MarshalledObject,%20java.lang.String%5B%5D,%20javax.security.auth.Subject))([String](http://docs.google.com/java/lang/String.html) className, [ObjectName](http://docs.google.com/javax/management/ObjectName.html) name, [MarshalledObject](http://docs.google.com/java/rmi/MarshalledObject.html) params, [String](http://docs.google.com/java/lang/String.html)[] signature, [Subject](http://docs.google.com/javax/security/auth/Subject.html) delegationSubject)            Handles the method [MBeanServerConnection.createMBean(String, ObjectName, Object[], String[])](http://docs.google.com/javax/management/MBeanServerConnection.html#createMBean(java.lang.String,%20javax.management.ObjectName,%20java.lang.Object%5B%5D,%20java.lang.String%5B%5D)). |
| [ObjectInstance](http://docs.google.com/javax/management/ObjectInstance.html) | **RMIConnectionImpl\_Stub.**[**createMBean**](http://docs.google.com/javax/management/remote/rmi/RMIConnectionImpl_Stub.html#createMBean(java.lang.String,%20javax.management.ObjectName,%20javax.management.ObjectName,%20java.rmi.MarshalledObject,%20java.lang.String%5B%5D,%20javax.security.auth.Subject))([String](http://docs.google.com/java/lang/String.html) $param\_String\_1, [ObjectName](http://docs.google.com/javax/management/ObjectName.html) $param\_ObjectName\_2, [ObjectName](http://docs.google.com/javax/management/ObjectName.html) $param\_ObjectName\_3, [MarshalledObject](http://docs.google.com/java/rmi/MarshalledObject.html) $param\_MarshalledObject\_4, [String](http://docs.google.com/java/lang/String.html)[] $param\_arrayOf\_String\_5, [Subject](http://docs.google.com/javax/security/auth/Subject.html) $param\_Subject\_6) |
| [ObjectInstance](http://docs.google.com/javax/management/ObjectInstance.html) | **RMIConnectionImpl.**[**createMBean**](http://docs.google.com/javax/management/remote/rmi/RMIConnectionImpl.html#createMBean(java.lang.String,%20javax.management.ObjectName,%20javax.management.ObjectName,%20java.rmi.MarshalledObject,%20java.lang.String%5B%5D,%20javax.security.auth.Subject))([String](http://docs.google.com/java/lang/String.html) className, [ObjectName](http://docs.google.com/javax/management/ObjectName.html) name, [ObjectName](http://docs.google.com/javax/management/ObjectName.html) loaderName, [MarshalledObject](http://docs.google.com/java/rmi/MarshalledObject.html) params, [String](http://docs.google.com/java/lang/String.html)[] signature, [Subject](http://docs.google.com/javax/security/auth/Subject.html) delegationSubject) |
| [ObjectInstance](http://docs.google.com/javax/management/ObjectInstance.html) | **RMIConnection.**[**createMBean**](http://docs.google.com/javax/management/remote/rmi/RMIConnection.html#createMBean(java.lang.String,%20javax.management.ObjectName,%20javax.management.ObjectName,%20java.rmi.MarshalledObject,%20java.lang.String%5B%5D,%20javax.security.auth.Subject))([String](http://docs.google.com/java/lang/String.html) className, [ObjectName](http://docs.google.com/javax/management/ObjectName.html) name, [ObjectName](http://docs.google.com/javax/management/ObjectName.html) loaderName, [MarshalledObject](http://docs.google.com/java/rmi/MarshalledObject.html) params, [String](http://docs.google.com/java/lang/String.html)[] signature, [Subject](http://docs.google.com/javax/security/auth/Subject.html) delegationSubject)            Handles the method [MBeanServerConnection.createMBean(String, ObjectName, ObjectName, Object[], String[])](http://docs.google.com/javax/management/MBeanServerConnection.html#createMBean(java.lang.String,%20javax.management.ObjectName,%20javax.management.ObjectName,%20java.lang.Object%5B%5D,%20java.lang.String%5B%5D)). |
| [ObjectInstance](http://docs.google.com/javax/management/ObjectInstance.html) | **RMIConnectionImpl\_Stub.**[**createMBean**](http://docs.google.com/javax/management/remote/rmi/RMIConnectionImpl_Stub.html#createMBean(java.lang.String,%20javax.management.ObjectName,%20javax.management.ObjectName,%20javax.security.auth.Subject))([String](http://docs.google.com/java/lang/String.html) $param\_String\_1, [ObjectName](http://docs.google.com/javax/management/ObjectName.html) $param\_ObjectName\_2, [ObjectName](http://docs.google.com/javax/management/ObjectName.html) $param\_ObjectName\_3, [Subject](http://docs.google.com/javax/security/auth/Subject.html) $param\_Subject\_4) |
| [ObjectInstance](http://docs.google.com/javax/management/ObjectInstance.html) | **RMIConnectionImpl.**[**createMBean**](http://docs.google.com/javax/management/remote/rmi/RMIConnectionImpl.html#createMBean(java.lang.String,%20javax.management.ObjectName,%20javax.management.ObjectName,%20javax.security.auth.Subject))([String](http://docs.google.com/java/lang/String.html) className, [ObjectName](http://docs.google.com/javax/management/ObjectName.html) name, [ObjectName](http://docs.google.com/javax/management/ObjectName.html) loaderName, [Subject](http://docs.google.com/javax/security/auth/Subject.html) delegationSubject) |
| [ObjectInstance](http://docs.google.com/javax/management/ObjectInstance.html) | **RMIConnection.**[**createMBean**](http://docs.google.com/javax/management/remote/rmi/RMIConnection.html#createMBean(java.lang.String,%20javax.management.ObjectName,%20javax.management.ObjectName,%20javax.security.auth.Subject))([String](http://docs.google.com/java/lang/String.html) className, [ObjectName](http://docs.google.com/javax/management/ObjectName.html) name, [ObjectName](http://docs.google.com/javax/management/ObjectName.html) loaderName, [Subject](http://docs.google.com/javax/security/auth/Subject.html) delegationSubject)            Handles the method [MBeanServerConnection.createMBean(String, ObjectName, ObjectName)](http://docs.google.com/javax/management/MBeanServerConnection.html#createMBean(java.lang.String,%20javax.management.ObjectName,%20javax.management.ObjectName)). |
| [ObjectInstance](http://docs.google.com/javax/management/ObjectInstance.html) | **RMIConnectionImpl\_Stub.**[**createMBean**](http://docs.google.com/javax/management/remote/rmi/RMIConnectionImpl_Stub.html#createMBean(java.lang.String,%20javax.management.ObjectName,%20javax.security.auth.Subject))([String](http://docs.google.com/java/lang/String.html) $param\_String\_1, [ObjectName](http://docs.google.com/javax/management/ObjectName.html) $param\_ObjectName\_2, [Subject](http://docs.google.com/javax/security/auth/Subject.html) $param\_Subject\_3) |
| [ObjectInstance](http://docs.google.com/javax/management/ObjectInstance.html) | **RMIConnectionImpl.**[**createMBean**](http://docs.google.com/javax/management/remote/rmi/RMIConnectionImpl.html#createMBean(java.lang.String,%20javax.management.ObjectName,%20javax.security.auth.Subject))([String](http://docs.google.com/java/lang/String.html) className, [ObjectName](http://docs.google.com/javax/management/ObjectName.html) name, [Subject](http://docs.google.com/javax/security/auth/Subject.html) delegationSubject) |
| [ObjectInstance](http://docs.google.com/javax/management/ObjectInstance.html) | **RMIConnection.**[**createMBean**](http://docs.google.com/javax/management/remote/rmi/RMIConnection.html#createMBean(java.lang.String,%20javax.management.ObjectName,%20javax.security.auth.Subject))([String](http://docs.google.com/java/lang/String.html) className, [ObjectName](http://docs.google.com/javax/management/ObjectName.html) name, [Subject](http://docs.google.com/javax/security/auth/Subject.html) delegationSubject)            Handles the method [MBeanServerConnection.createMBean(String, ObjectName)](http://docs.google.com/javax/management/MBeanServerConnection.html#createMBean(java.lang.String,%20javax.management.ObjectName)). |
| protected  void | **RMIIIOPServerImpl.**[**export**](http://docs.google.com/javax/management/remote/rmi/RMIIIOPServerImpl.html#export())() |
| protected  void | **RMIJRMPServerImpl.**[**export**](http://docs.google.com/javax/management/remote/rmi/RMIJRMPServerImpl.html#export())() |
| protected abstract  void | **RMIServerImpl.**[**export**](http://docs.google.com/javax/management/remote/rmi/RMIServerImpl.html#export())()            Exports this RMI object. |
| [NotificationResult](http://docs.google.com/javax/management/remote/NotificationResult.html) | **RMIConnectionImpl\_Stub.**[**fetchNotifications**](http://docs.google.com/javax/management/remote/rmi/RMIConnectionImpl_Stub.html#fetchNotifications(long,%20int,%20long))(long $param\_long\_1, int $param\_int\_2, long $param\_long\_3) |
| [NotificationResult](http://docs.google.com/javax/management/remote/NotificationResult.html) | **RMIConnectionImpl.**[**fetchNotifications**](http://docs.google.com/javax/management/remote/rmi/RMIConnectionImpl.html#fetchNotifications(long,%20int,%20long))(long clientSequenceNumber, int maxNotifications, long timeout) |
| [NotificationResult](http://docs.google.com/javax/management/remote/NotificationResult.html) | **RMIConnection.**[**fetchNotifications**](http://docs.google.com/javax/management/remote/rmi/RMIConnection.html#fetchNotifications(long,%20int,%20long))(long clientSequenceNumber, int maxNotifications, long timeout)            Retrieves notifications from the connector server. |
| [Object](http://docs.google.com/java/lang/Object.html) | **RMIConnectionImpl\_Stub.**[**getAttribute**](http://docs.google.com/javax/management/remote/rmi/RMIConnectionImpl_Stub.html#getAttribute(javax.management.ObjectName,%20java.lang.String,%20javax.security.auth.Subject))([ObjectName](http://docs.google.com/javax/management/ObjectName.html) $param\_ObjectName\_1, [String](http://docs.google.com/java/lang/String.html) $param\_String\_2, [Subject](http://docs.google.com/javax/security/auth/Subject.html) $param\_Subject\_3) |
| [Object](http://docs.google.com/java/lang/Object.html) | **RMIConnectionImpl.**[**getAttribute**](http://docs.google.com/javax/management/remote/rmi/RMIConnectionImpl.html#getAttribute(javax.management.ObjectName,%20java.lang.String,%20javax.security.auth.Subject))([ObjectName](http://docs.google.com/javax/management/ObjectName.html) name, [String](http://docs.google.com/java/lang/String.html) attribute, [Subject](http://docs.google.com/javax/security/auth/Subject.html) delegationSubject) |
| [Object](http://docs.google.com/java/lang/Object.html) | **RMIConnection.**[**getAttribute**](http://docs.google.com/javax/management/remote/rmi/RMIConnection.html#getAttribute(javax.management.ObjectName,%20java.lang.String,%20javax.security.auth.Subject))([ObjectName](http://docs.google.com/javax/management/ObjectName.html) name, [String](http://docs.google.com/java/lang/String.html) attribute, [Subject](http://docs.google.com/javax/security/auth/Subject.html) delegationSubject)            Handles the method [MBeanServerConnection.getAttribute(ObjectName, String)](http://docs.google.com/javax/management/MBeanServerConnection.html#getAttribute(javax.management.ObjectName,%20java.lang.String)). |
| [AttributeList](http://docs.google.com/javax/management/AttributeList.html) | **RMIConnectionImpl\_Stub.**[**getAttributes**](http://docs.google.com/javax/management/remote/rmi/RMIConnectionImpl_Stub.html#getAttributes(javax.management.ObjectName,%20java.lang.String%5B%5D,%20javax.security.auth.Subject))([ObjectName](http://docs.google.com/javax/management/ObjectName.html) $param\_ObjectName\_1, [String](http://docs.google.com/java/lang/String.html)[] $param\_arrayOf\_String\_2, [Subject](http://docs.google.com/javax/security/auth/Subject.html) $param\_Subject\_3) |
| [AttributeList](http://docs.google.com/javax/management/AttributeList.html) | **RMIConnectionImpl.**[**getAttributes**](http://docs.google.com/javax/management/remote/rmi/RMIConnectionImpl.html#getAttributes(javax.management.ObjectName,%20java.lang.String%5B%5D,%20javax.security.auth.Subject))([ObjectName](http://docs.google.com/javax/management/ObjectName.html) name, [String](http://docs.google.com/java/lang/String.html)[] attributes, [Subject](http://docs.google.com/javax/security/auth/Subject.html) delegationSubject) |
| [AttributeList](http://docs.google.com/javax/management/AttributeList.html) | **RMIConnection.**[**getAttributes**](http://docs.google.com/javax/management/remote/rmi/RMIConnection.html#getAttributes(javax.management.ObjectName,%20java.lang.String%5B%5D,%20javax.security.auth.Subject))([ObjectName](http://docs.google.com/javax/management/ObjectName.html) name, [String](http://docs.google.com/java/lang/String.html)[] attributes, [Subject](http://docs.google.com/javax/security/auth/Subject.html) delegationSubject)            Handles the method [MBeanServerConnection.getAttributes(ObjectName, String[])](http://docs.google.com/javax/management/MBeanServerConnection.html#getAttributes(javax.management.ObjectName,%20java.lang.String%5B%5D)). |
| [String](http://docs.google.com/java/lang/String.html) | **RMIConnectionImpl\_Stub.**[**getConnectionId**](http://docs.google.com/javax/management/remote/rmi/RMIConnectionImpl_Stub.html#getConnectionId())() |
| [String](http://docs.google.com/java/lang/String.html) | **RMIConnectionImpl.**[**getConnectionId**](http://docs.google.com/javax/management/remote/rmi/RMIConnectionImpl.html#getConnectionId())() |
| [String](http://docs.google.com/java/lang/String.html) | **RMIConnector.**[**getConnectionId**](http://docs.google.com/javax/management/remote/rmi/RMIConnector.html#getConnectionId())() |
| [String](http://docs.google.com/java/lang/String.html) | **RMIConnection.**[**getConnectionId**](http://docs.google.com/javax/management/remote/rmi/RMIConnection.html#getConnectionId())()            Returns the connection ID. |
| [String](http://docs.google.com/java/lang/String.html) | **RMIConnectionImpl\_Stub.**[**getDefaultDomain**](http://docs.google.com/javax/management/remote/rmi/RMIConnectionImpl_Stub.html#getDefaultDomain(javax.security.auth.Subject))([Subject](http://docs.google.com/javax/security/auth/Subject.html) $param\_Subject\_1) |
| [String](http://docs.google.com/java/lang/String.html) | **RMIConnectionImpl.**[**getDefaultDomain**](http://docs.google.com/javax/management/remote/rmi/RMIConnectionImpl.html#getDefaultDomain(javax.security.auth.Subject))([Subject](http://docs.google.com/javax/security/auth/Subject.html) delegationSubject) |
| [String](http://docs.google.com/java/lang/String.html) | **RMIConnection.**[**getDefaultDomain**](http://docs.google.com/javax/management/remote/rmi/RMIConnection.html#getDefaultDomain(javax.security.auth.Subject))([Subject](http://docs.google.com/javax/security/auth/Subject.html) delegationSubject)            Handles the method [MBeanServerConnection.getDefaultDomain()](http://docs.google.com/javax/management/MBeanServerConnection.html#getDefaultDomain()). |
| [String](http://docs.google.com/java/lang/String.html)[] | **RMIConnectionImpl\_Stub.**[**getDomains**](http://docs.google.com/javax/management/remote/rmi/RMIConnectionImpl_Stub.html#getDomains(javax.security.auth.Subject))([Subject](http://docs.google.com/javax/security/auth/Subject.html) $param\_Subject\_1) |
| [String](http://docs.google.com/java/lang/String.html)[] | **RMIConnectionImpl.**[**getDomains**](http://docs.google.com/javax/management/remote/rmi/RMIConnectionImpl.html#getDomains(javax.security.auth.Subject))([Subject](http://docs.google.com/javax/security/auth/Subject.html) delegationSubject) |
| [String](http://docs.google.com/java/lang/String.html)[] | **RMIConnection.**[**getDomains**](http://docs.google.com/javax/management/remote/rmi/RMIConnection.html#getDomains(javax.security.auth.Subject))([Subject](http://docs.google.com/javax/security/auth/Subject.html) delegationSubject)            Handles the method [MBeanServerConnection.getDomains()](http://docs.google.com/javax/management/MBeanServerConnection.html#getDomains()). |
| [Integer](http://docs.google.com/java/lang/Integer.html) | **RMIConnectionImpl\_Stub.**[**getMBeanCount**](http://docs.google.com/javax/management/remote/rmi/RMIConnectionImpl_Stub.html#getMBeanCount(javax.security.auth.Subject))([Subject](http://docs.google.com/javax/security/auth/Subject.html) $param\_Subject\_1) |
| [Integer](http://docs.google.com/java/lang/Integer.html) | **RMIConnectionImpl.**[**getMBeanCount**](http://docs.google.com/javax/management/remote/rmi/RMIConnectionImpl.html#getMBeanCount(javax.security.auth.Subject))([Subject](http://docs.google.com/javax/security/auth/Subject.html) delegationSubject) |
| [Integer](http://docs.google.com/java/lang/Integer.html) | **RMIConnection.**[**getMBeanCount**](http://docs.google.com/javax/management/remote/rmi/RMIConnection.html#getMBeanCount(javax.security.auth.Subject))([Subject](http://docs.google.com/javax/security/auth/Subject.html) delegationSubject)            Handles the method [MBeanServerConnection.getMBeanCount()](http://docs.google.com/javax/management/MBeanServerConnection.html#getMBeanCount()). |
| [MBeanInfo](http://docs.google.com/javax/management/MBeanInfo.html) | **RMIConnectionImpl\_Stub.**[**getMBeanInfo**](http://docs.google.com/javax/management/remote/rmi/RMIConnectionImpl_Stub.html#getMBeanInfo(javax.management.ObjectName,%20javax.security.auth.Subject))([ObjectName](http://docs.google.com/javax/management/ObjectName.html) $param\_ObjectName\_1, [Subject](http://docs.google.com/javax/security/auth/Subject.html) $param\_Subject\_2) |
| [MBeanInfo](http://docs.google.com/javax/management/MBeanInfo.html) | **RMIConnectionImpl.**[**getMBeanInfo**](http://docs.google.com/javax/management/remote/rmi/RMIConnectionImpl.html#getMBeanInfo(javax.management.ObjectName,%20javax.security.auth.Subject))([ObjectName](http://docs.google.com/javax/management/ObjectName.html) name, [Subject](http://docs.google.com/javax/security/auth/Subject.html) delegationSubject) |
| [MBeanInfo](http://docs.google.com/javax/management/MBeanInfo.html) | **RMIConnection.**[**getMBeanInfo**](http://docs.google.com/javax/management/remote/rmi/RMIConnection.html#getMBeanInfo(javax.management.ObjectName,%20javax.security.auth.Subject))([ObjectName](http://docs.google.com/javax/management/ObjectName.html) name, [Subject](http://docs.google.com/javax/security/auth/Subject.html) delegationSubject)            Handles the method [MBeanServerConnection.getMBeanInfo(ObjectName)](http://docs.google.com/javax/management/MBeanServerConnection.html#getMBeanInfo(javax.management.ObjectName)). |
| [MBeanServerConnection](http://docs.google.com/javax/management/MBeanServerConnection.html) | **RMIConnector.**[**getMBeanServerConnection**](http://docs.google.com/javax/management/remote/rmi/RMIConnector.html#getMBeanServerConnection())() |
| [MBeanServerConnection](http://docs.google.com/javax/management/MBeanServerConnection.html) | **RMIConnector.**[**getMBeanServerConnection**](http://docs.google.com/javax/management/remote/rmi/RMIConnector.html#getMBeanServerConnection(javax.security.auth.Subject))([Subject](http://docs.google.com/javax/security/auth/Subject.html) delegationSubject) |
| [ObjectInstance](http://docs.google.com/javax/management/ObjectInstance.html) | **RMIConnectionImpl\_Stub.**[**getObjectInstance**](http://docs.google.com/javax/management/remote/rmi/RMIConnectionImpl_Stub.html#getObjectInstance(javax.management.ObjectName,%20javax.security.auth.Subject))([ObjectName](http://docs.google.com/javax/management/ObjectName.html) $param\_ObjectName\_1, [Subject](http://docs.google.com/javax/security/auth/Subject.html) $param\_Subject\_2) |
| [ObjectInstance](http://docs.google.com/javax/management/ObjectInstance.html) | **RMIConnectionImpl.**[**getObjectInstance**](http://docs.google.com/javax/management/remote/rmi/RMIConnectionImpl.html#getObjectInstance(javax.management.ObjectName,%20javax.security.auth.Subject))([ObjectName](http://docs.google.com/javax/management/ObjectName.html) name, [Subject](http://docs.google.com/javax/security/auth/Subject.html) delegationSubject) |
| [ObjectInstance](http://docs.google.com/javax/management/ObjectInstance.html) | **RMIConnection.**[**getObjectInstance**](http://docs.google.com/javax/management/remote/rmi/RMIConnection.html#getObjectInstance(javax.management.ObjectName,%20javax.security.auth.Subject))([ObjectName](http://docs.google.com/javax/management/ObjectName.html) name, [Subject](http://docs.google.com/javax/security/auth/Subject.html) delegationSubject)            Handles the method [MBeanServerConnection.getObjectInstance(ObjectName)](http://docs.google.com/javax/management/MBeanServerConnection.html#getObjectInstance(javax.management.ObjectName)). |
| [Object](http://docs.google.com/java/lang/Object.html) | **RMIConnectionImpl\_Stub.**[**invoke**](http://docs.google.com/javax/management/remote/rmi/RMIConnectionImpl_Stub.html#invoke(javax.management.ObjectName,%20java.lang.String,%20java.rmi.MarshalledObject,%20java.lang.String%5B%5D,%20javax.security.auth.Subject))([ObjectName](http://docs.google.com/javax/management/ObjectName.html) $param\_ObjectName\_1, [String](http://docs.google.com/java/lang/String.html) $param\_String\_2, [MarshalledObject](http://docs.google.com/java/rmi/MarshalledObject.html) $param\_MarshalledObject\_3, [String](http://docs.google.com/java/lang/String.html)[] $param\_arrayOf\_String\_4, [Subject](http://docs.google.com/javax/security/auth/Subject.html) $param\_Subject\_5) |
| [Object](http://docs.google.com/java/lang/Object.html) | **RMIConnectionImpl.**[**invoke**](http://docs.google.com/javax/management/remote/rmi/RMIConnectionImpl.html#invoke(javax.management.ObjectName,%20java.lang.String,%20java.rmi.MarshalledObject,%20java.lang.String%5B%5D,%20javax.security.auth.Subject))([ObjectName](http://docs.google.com/javax/management/ObjectName.html) name, [String](http://docs.google.com/java/lang/String.html) operationName, [MarshalledObject](http://docs.google.com/java/rmi/MarshalledObject.html) params, [String](http://docs.google.com/java/lang/String.html)[] signature, [Subject](http://docs.google.com/javax/security/auth/Subject.html) delegationSubject) |
| [Object](http://docs.google.com/java/lang/Object.html) | **RMIConnection.**[**invoke**](http://docs.google.com/javax/management/remote/rmi/RMIConnection.html#invoke(javax.management.ObjectName,%20java.lang.String,%20java.rmi.MarshalledObject,%20java.lang.String%5B%5D,%20javax.security.auth.Subject))([ObjectName](http://docs.google.com/javax/management/ObjectName.html) name, [String](http://docs.google.com/java/lang/String.html) operationName, [MarshalledObject](http://docs.google.com/java/rmi/MarshalledObject.html) params, [String](http://docs.google.com/java/lang/String.html)[] signature, [Subject](http://docs.google.com/javax/security/auth/Subject.html) delegationSubject)            Handles the method [MBeanServerConnection.invoke(ObjectName, String, Object[], String[])](http://docs.google.com/javax/management/MBeanServerConnection.html#invoke(javax.management.ObjectName,%20java.lang.String,%20java.lang.Object%5B%5D,%20java.lang.String%5B%5D)). |
| boolean | **RMIConnectionImpl\_Stub.**[**isInstanceOf**](http://docs.google.com/javax/management/remote/rmi/RMIConnectionImpl_Stub.html#isInstanceOf(javax.management.ObjectName,%20java.lang.String,%20javax.security.auth.Subject))([ObjectName](http://docs.google.com/javax/management/ObjectName.html) $param\_ObjectName\_1, [String](http://docs.google.com/java/lang/String.html) $param\_String\_2, [Subject](http://docs.google.com/javax/security/auth/Subject.html) $param\_Subject\_3) |
| boolean | **RMIConnectionImpl.**[**isInstanceOf**](http://docs.google.com/javax/management/remote/rmi/RMIConnectionImpl.html#isInstanceOf(javax.management.ObjectName,%20java.lang.String,%20javax.security.auth.Subject))([ObjectName](http://docs.google.com/javax/management/ObjectName.html) name, [String](http://docs.google.com/java/lang/String.html) className, [Subject](http://docs.google.com/javax/security/auth/Subject.html) delegationSubject) |
| boolean | **RMIConnection.**[**isInstanceOf**](http://docs.google.com/javax/management/remote/rmi/RMIConnection.html#isInstanceOf(javax.management.ObjectName,%20java.lang.String,%20javax.security.auth.Subject))([ObjectName](http://docs.google.com/javax/management/ObjectName.html) name, [String](http://docs.google.com/java/lang/String.html) className, [Subject](http://docs.google.com/javax/security/auth/Subject.html) delegationSubject)            Handles the method [MBeanServerConnection.isInstanceOf(ObjectName, String)](http://docs.google.com/javax/management/MBeanServerConnection.html#isInstanceOf(javax.management.ObjectName,%20java.lang.String)). |
| boolean | **RMIConnectionImpl\_Stub.**[**isRegistered**](http://docs.google.com/javax/management/remote/rmi/RMIConnectionImpl_Stub.html#isRegistered(javax.management.ObjectName,%20javax.security.auth.Subject))([ObjectName](http://docs.google.com/javax/management/ObjectName.html) $param\_ObjectName\_1, [Subject](http://docs.google.com/javax/security/auth/Subject.html) $param\_Subject\_2) |
| boolean | **RMIConnectionImpl.**[**isRegistered**](http://docs.google.com/javax/management/remote/rmi/RMIConnectionImpl.html#isRegistered(javax.management.ObjectName,%20javax.security.auth.Subject))([ObjectName](http://docs.google.com/javax/management/ObjectName.html) name, [Subject](http://docs.google.com/javax/security/auth/Subject.html) delegationSubject) |
| boolean | **RMIConnection.**[**isRegistered**](http://docs.google.com/javax/management/remote/rmi/RMIConnection.html#isRegistered(javax.management.ObjectName,%20javax.security.auth.Subject))([ObjectName](http://docs.google.com/javax/management/ObjectName.html) name, [Subject](http://docs.google.com/javax/security/auth/Subject.html) delegationSubject)            Handles the method [MBeanServerConnection.isRegistered(ObjectName)](http://docs.google.com/javax/management/MBeanServerConnection.html#isRegistered(javax.management.ObjectName)). |
| protected  [RMIConnection](http://docs.google.com/javax/management/remote/rmi/RMIConnection.html) | **RMIIIOPServerImpl.**[**makeClient**](http://docs.google.com/javax/management/remote/rmi/RMIIIOPServerImpl.html#makeClient(java.lang.String,%20javax.security.auth.Subject))([String](http://docs.google.com/java/lang/String.html) connectionId, [Subject](http://docs.google.com/javax/security/auth/Subject.html) subject)            Creates a new client connection as an RMI object exported through IIOP. |
| protected  [RMIConnection](http://docs.google.com/javax/management/remote/rmi/RMIConnection.html) | **RMIJRMPServerImpl.**[**makeClient**](http://docs.google.com/javax/management/remote/rmi/RMIJRMPServerImpl.html#makeClient(java.lang.String,%20javax.security.auth.Subject))([String](http://docs.google.com/java/lang/String.html) connectionId, [Subject](http://docs.google.com/javax/security/auth/Subject.html) subject)            Creates a new client connection as an RMI object exported through JRMP. |
| protected abstract  [RMIConnection](http://docs.google.com/javax/management/remote/rmi/RMIConnection.html) | **RMIServerImpl.**[**makeClient**](http://docs.google.com/javax/management/remote/rmi/RMIServerImpl.html#makeClient(java.lang.String,%20javax.security.auth.Subject))([String](http://docs.google.com/java/lang/String.html) connectionId, [Subject](http://docs.google.com/javax/security/auth/Subject.html) subject)            Creates a new client connection. |
| [RMIConnection](http://docs.google.com/javax/management/remote/rmi/RMIConnection.html) | **RMIServerImpl\_Stub.**[**newClient**](http://docs.google.com/javax/management/remote/rmi/RMIServerImpl_Stub.html#newClient(java.lang.Object))([Object](http://docs.google.com/java/lang/Object.html) $param\_Object\_1) |
| [RMIConnection](http://docs.google.com/javax/management/remote/rmi/RMIConnection.html) | **RMIServer.**[**newClient**](http://docs.google.com/javax/management/remote/rmi/RMIServer.html#newClient(java.lang.Object))([Object](http://docs.google.com/java/lang/Object.html) credentials)            Makes a new connection through this RMI connector. |
| [RMIConnection](http://docs.google.com/javax/management/remote/rmi/RMIConnection.html) | **RMIServerImpl.**[**newClient**](http://docs.google.com/javax/management/remote/rmi/RMIServerImpl.html#newClient(java.lang.Object))([Object](http://docs.google.com/java/lang/Object.html) credentials)            Creates a new client connection. |
| [Set](http://docs.google.com/java/util/Set.html) | **RMIConnectionImpl\_Stub.**[**queryMBeans**](http://docs.google.com/javax/management/remote/rmi/RMIConnectionImpl_Stub.html#queryMBeans(javax.management.ObjectName,%20java.rmi.MarshalledObject,%20javax.security.auth.Subject))([ObjectName](http://docs.google.com/javax/management/ObjectName.html) $param\_ObjectName\_1, [MarshalledObject](http://docs.google.com/java/rmi/MarshalledObject.html) $param\_MarshalledObject\_2, [Subject](http://docs.google.com/javax/security/auth/Subject.html) $param\_Subject\_3) |
| [Set](http://docs.google.com/java/util/Set.html)<[ObjectInstance](http://docs.google.com/javax/management/ObjectInstance.html)> | **RMIConnectionImpl.**[**queryMBeans**](http://docs.google.com/javax/management/remote/rmi/RMIConnectionImpl.html#queryMBeans(javax.management.ObjectName,%20java.rmi.MarshalledObject,%20javax.security.auth.Subject))([ObjectName](http://docs.google.com/javax/management/ObjectName.html) name, [MarshalledObject](http://docs.google.com/java/rmi/MarshalledObject.html) query, [Subject](http://docs.google.com/javax/security/auth/Subject.html) delegationSubject) |
| [Set](http://docs.google.com/java/util/Set.html)<[ObjectInstance](http://docs.google.com/javax/management/ObjectInstance.html)> | **RMIConnection.**[**queryMBeans**](http://docs.google.com/javax/management/remote/rmi/RMIConnection.html#queryMBeans(javax.management.ObjectName,%20java.rmi.MarshalledObject,%20javax.security.auth.Subject))([ObjectName](http://docs.google.com/javax/management/ObjectName.html) name, [MarshalledObject](http://docs.google.com/java/rmi/MarshalledObject.html) query, [Subject](http://docs.google.com/javax/security/auth/Subject.html) delegationSubject)            Handles the method [MBeanServerConnection.queryMBeans(ObjectName, QueryExp)](http://docs.google.com/javax/management/MBeanServerConnection.html#queryMBeans(javax.management.ObjectName,%20javax.management.QueryExp)). |
| [Set](http://docs.google.com/java/util/Set.html) | **RMIConnectionImpl\_Stub.**[**queryNames**](http://docs.google.com/javax/management/remote/rmi/RMIConnectionImpl_Stub.html#queryNames(javax.management.ObjectName,%20java.rmi.MarshalledObject,%20javax.security.auth.Subject))([ObjectName](http://docs.google.com/javax/management/ObjectName.html) $param\_ObjectName\_1, [MarshalledObject](http://docs.google.com/java/rmi/MarshalledObject.html) $param\_MarshalledObject\_2, [Subject](http://docs.google.com/javax/security/auth/Subject.html) $param\_Subject\_3) |
| [Set](http://docs.google.com/java/util/Set.html)<[ObjectName](http://docs.google.com/javax/management/ObjectName.html)> | **RMIConnectionImpl.**[**queryNames**](http://docs.google.com/javax/management/remote/rmi/RMIConnectionImpl.html#queryNames(javax.management.ObjectName,%20java.rmi.MarshalledObject,%20javax.security.auth.Subject))([ObjectName](http://docs.google.com/javax/management/ObjectName.html) name, [MarshalledObject](http://docs.google.com/java/rmi/MarshalledObject.html) query, [Subject](http://docs.google.com/javax/security/auth/Subject.html) delegationSubject) |
| [Set](http://docs.google.com/java/util/Set.html)<[ObjectName](http://docs.google.com/javax/management/ObjectName.html)> | **RMIConnection.**[**queryNames**](http://docs.google.com/javax/management/remote/rmi/RMIConnection.html#queryNames(javax.management.ObjectName,%20java.rmi.MarshalledObject,%20javax.security.auth.Subject))([ObjectName](http://docs.google.com/javax/management/ObjectName.html) name, [MarshalledObject](http://docs.google.com/java/rmi/MarshalledObject.html) query, [Subject](http://docs.google.com/javax/security/auth/Subject.html) delegationSubject)            Handles the method [MBeanServerConnection.queryNames(ObjectName, QueryExp)](http://docs.google.com/javax/management/MBeanServerConnection.html#queryNames(javax.management.ObjectName,%20javax.management.QueryExp)). |
| void | **RMIConnectionImpl\_Stub.**[**removeNotificationListener**](http://docs.google.com/javax/management/remote/rmi/RMIConnectionImpl_Stub.html#removeNotificationListener(javax.management.ObjectName,%20javax.management.ObjectName,%20java.rmi.MarshalledObject,%20java.rmi.MarshalledObject,%20javax.security.auth.Subject))([ObjectName](http://docs.google.com/javax/management/ObjectName.html) $param\_ObjectName\_1, [ObjectName](http://docs.google.com/javax/management/ObjectName.html) $param\_ObjectName\_2, [MarshalledObject](http://docs.google.com/java/rmi/MarshalledObject.html) $param\_MarshalledObject\_3, [MarshalledObject](http://docs.google.com/java/rmi/MarshalledObject.html) $param\_MarshalledObject\_4, [Subject](http://docs.google.com/javax/security/auth/Subject.html) $param\_Subject\_5) |
| void | **RMIConnectionImpl.**[**removeNotificationListener**](http://docs.google.com/javax/management/remote/rmi/RMIConnectionImpl.html#removeNotificationListener(javax.management.ObjectName,%20javax.management.ObjectName,%20java.rmi.MarshalledObject,%20java.rmi.MarshalledObject,%20javax.security.auth.Subject))([ObjectName](http://docs.google.com/javax/management/ObjectName.html) name, [ObjectName](http://docs.google.com/javax/management/ObjectName.html) listener, [MarshalledObject](http://docs.google.com/java/rmi/MarshalledObject.html) filter, [MarshalledObject](http://docs.google.com/java/rmi/MarshalledObject.html) handback, [Subject](http://docs.google.com/javax/security/auth/Subject.html) delegationSubject) |
| void | **RMIConnection.**[**removeNotificationListener**](http://docs.google.com/javax/management/remote/rmi/RMIConnection.html#removeNotificationListener(javax.management.ObjectName,%20javax.management.ObjectName,%20java.rmi.MarshalledObject,%20java.rmi.MarshalledObject,%20javax.security.auth.Subject))([ObjectName](http://docs.google.com/javax/management/ObjectName.html) name, [ObjectName](http://docs.google.com/javax/management/ObjectName.html) listener, [MarshalledObject](http://docs.google.com/java/rmi/MarshalledObject.html) filter, [MarshalledObject](http://docs.google.com/java/rmi/MarshalledObject.html) handback, [Subject](http://docs.google.com/javax/security/auth/Subject.html) delegationSubject)            Handles the method [MBeanServerConnection.removeNotificationListener(ObjectName, ObjectName, NotificationFilter, Object)](http://docs.google.com/javax/management/MBeanServerConnection.html#removeNotificationListener(javax.management.ObjectName,%20javax.management.ObjectName,%20javax.management.NotificationFilter,%20java.lang.Object)). |
| void | **RMIConnectionImpl\_Stub.**[**removeNotificationListener**](http://docs.google.com/javax/management/remote/rmi/RMIConnectionImpl_Stub.html#removeNotificationListener(javax.management.ObjectName,%20javax.management.ObjectName,%20javax.security.auth.Subject))([ObjectName](http://docs.google.com/javax/management/ObjectName.html) $param\_ObjectName\_1, [ObjectName](http://docs.google.com/javax/management/ObjectName.html) $param\_ObjectName\_2, [Subject](http://docs.google.com/javax/security/auth/Subject.html) $param\_Subject\_3) |
| void | **RMIConnectionImpl.**[**removeNotificationListener**](http://docs.google.com/javax/management/remote/rmi/RMIConnectionImpl.html#removeNotificationListener(javax.management.ObjectName,%20javax.management.ObjectName,%20javax.security.auth.Subject))([ObjectName](http://docs.google.com/javax/management/ObjectName.html) name, [ObjectName](http://docs.google.com/javax/management/ObjectName.html) listener, [Subject](http://docs.google.com/javax/security/auth/Subject.html) delegationSubject) |
| void | **RMIConnection.**[**removeNotificationListener**](http://docs.google.com/javax/management/remote/rmi/RMIConnection.html#removeNotificationListener(javax.management.ObjectName,%20javax.management.ObjectName,%20javax.security.auth.Subject))([ObjectName](http://docs.google.com/javax/management/ObjectName.html) name, [ObjectName](http://docs.google.com/javax/management/ObjectName.html) listener, [Subject](http://docs.google.com/javax/security/auth/Subject.html) delegationSubject)            Handles the method [MBeanServerConnection.removeNotificationListener(ObjectName, ObjectName)](http://docs.google.com/javax/management/MBeanServerConnection.html#removeNotificationListener(javax.management.ObjectName,%20javax.management.ObjectName)). |
| void | **RMIConnectionImpl\_Stub.**[**removeNotificationListeners**](http://docs.google.com/javax/management/remote/rmi/RMIConnectionImpl_Stub.html#removeNotificationListeners(javax.management.ObjectName,%20java.lang.Integer%5B%5D,%20javax.security.auth.Subject))([ObjectName](http://docs.google.com/javax/management/ObjectName.html) $param\_ObjectName\_1, [Integer](http://docs.google.com/java/lang/Integer.html)[] $param\_arrayOf\_Integer\_2, [Subject](http://docs.google.com/javax/security/auth/Subject.html) $param\_Subject\_3) |
| void | **RMIConnectionImpl.**[**removeNotificationListeners**](http://docs.google.com/javax/management/remote/rmi/RMIConnectionImpl.html#removeNotificationListeners(javax.management.ObjectName,%20java.lang.Integer%5B%5D,%20javax.security.auth.Subject))([ObjectName](http://docs.google.com/javax/management/ObjectName.html) name, [Integer](http://docs.google.com/java/lang/Integer.html)[] listenerIDs, [Subject](http://docs.google.com/javax/security/auth/Subject.html) delegationSubject) |
| void | **RMIConnection.**[**removeNotificationListeners**](http://docs.google.com/javax/management/remote/rmi/RMIConnection.html#removeNotificationListeners(javax.management.ObjectName,%20java.lang.Integer%5B%5D,%20javax.security.auth.Subject))([ObjectName](http://docs.google.com/javax/management/ObjectName.html) name, [Integer](http://docs.google.com/java/lang/Integer.html)[] listenerIDs, [Subject](http://docs.google.com/javax/security/auth/Subject.html) delegationSubject)            Handles the [removeNotificationListener(ObjectName, NotificationListener)](http://docs.google.com/javax/management/MBeanServerConnection.html#removeNotificationListener(javax.management.ObjectName,%20javax.management.NotificationListener)) and [removeNotificationListener(ObjectName, NotificationListener, NotificationFilter, Object)](http://docs.google.com/javax/management/MBeanServerConnection.html#removeNotificationListener(javax.management.ObjectName,%20javax.management.NotificationListener,%20javax.management.NotificationFilter,%20java.lang.Object)) methods. |
| void | **RMIConnectionImpl\_Stub.**[**setAttribute**](http://docs.google.com/javax/management/remote/rmi/RMIConnectionImpl_Stub.html#setAttribute(javax.management.ObjectName,%20java.rmi.MarshalledObject,%20javax.security.auth.Subject))([ObjectName](http://docs.google.com/javax/management/ObjectName.html) $param\_ObjectName\_1, [MarshalledObject](http://docs.google.com/java/rmi/MarshalledObject.html) $param\_MarshalledObject\_2, [Subject](http://docs.google.com/javax/security/auth/Subject.html) $param\_Subject\_3) |
| void | **RMIConnectionImpl.**[**setAttribute**](http://docs.google.com/javax/management/remote/rmi/RMIConnectionImpl.html#setAttribute(javax.management.ObjectName,%20java.rmi.MarshalledObject,%20javax.security.auth.Subject))([ObjectName](http://docs.google.com/javax/management/ObjectName.html) name, [MarshalledObject](http://docs.google.com/java/rmi/MarshalledObject.html) attribute, [Subject](http://docs.google.com/javax/security/auth/Subject.html) delegationSubject) |
| void | **RMIConnection.**[**setAttribute**](http://docs.google.com/javax/management/remote/rmi/RMIConnection.html#setAttribute(javax.management.ObjectName,%20java.rmi.MarshalledObject,%20javax.security.auth.Subject))([ObjectName](http://docs.google.com/javax/management/ObjectName.html) name, [MarshalledObject](http://docs.google.com/java/rmi/MarshalledObject.html) attribute, [Subject](http://docs.google.com/javax/security/auth/Subject.html) delegationSubject)            Handles the method [MBeanServerConnection.setAttribute(ObjectName, Attribute)](http://docs.google.com/javax/management/MBeanServerConnection.html#setAttribute(javax.management.ObjectName,%20javax.management.Attribute)). |
| [AttributeList](http://docs.google.com/javax/management/AttributeList.html) | **RMIConnectionImpl\_Stub.**[**setAttributes**](http://docs.google.com/javax/management/remote/rmi/RMIConnectionImpl_Stub.html#setAttributes(javax.management.ObjectName,%20java.rmi.MarshalledObject,%20javax.security.auth.Subject))([ObjectName](http://docs.google.com/javax/management/ObjectName.html) $param\_ObjectName\_1, [MarshalledObject](http://docs.google.com/java/rmi/MarshalledObject.html) $param\_MarshalledObject\_2, [Subject](http://docs.google.com/javax/security/auth/Subject.html) $param\_Subject\_3) |
| [AttributeList](http://docs.google.com/javax/management/AttributeList.html) | **RMIConnectionImpl.**[**setAttributes**](http://docs.google.com/javax/management/remote/rmi/RMIConnectionImpl.html#setAttributes(javax.management.ObjectName,%20java.rmi.MarshalledObject,%20javax.security.auth.Subject))([ObjectName](http://docs.google.com/javax/management/ObjectName.html) name, [MarshalledObject](http://docs.google.com/java/rmi/MarshalledObject.html) attributes, [Subject](http://docs.google.com/javax/security/auth/Subject.html) delegationSubject) |
| [AttributeList](http://docs.google.com/javax/management/AttributeList.html) | **RMIConnection.**[**setAttributes**](http://docs.google.com/javax/management/remote/rmi/RMIConnection.html#setAttributes(javax.management.ObjectName,%20java.rmi.MarshalledObject,%20javax.security.auth.Subject))([ObjectName](http://docs.google.com/javax/management/ObjectName.html) name, [MarshalledObject](http://docs.google.com/java/rmi/MarshalledObject.html) attributes, [Subject](http://docs.google.com/javax/security/auth/Subject.html) delegationSubject)            Handles the method [MBeanServerConnection.setAttributes(ObjectName, AttributeList)](http://docs.google.com/javax/management/MBeanServerConnection.html#setAttributes(javax.management.ObjectName,%20javax.management.AttributeList)). |
| void | **RMIConnectorServer.**[**start**](http://docs.google.com/javax/management/remote/rmi/RMIConnectorServer.html#start())()            Activates the connector server, that is starts listening for client connections. |
| void | **RMIConnectorServer.**[**stop**](http://docs.google.com/javax/management/remote/rmi/RMIConnectorServer.html#stop())()            Deactivates the connector server, that is, stops listening for client connections. |
| [JMXConnector](http://docs.google.com/javax/management/remote/JMXConnector.html) | **RMIConnectorServer.**[**toJMXConnector**](http://docs.google.com/javax/management/remote/rmi/RMIConnectorServer.html#toJMXConnector(java.util.Map))([Map](http://docs.google.com/java/util/Map.html)<[String](http://docs.google.com/java/lang/String.html),?> env)            Returns a client stub for this connector server. |
| [Remote](http://docs.google.com/java/rmi/Remote.html) | **RMIIIOPServerImpl.**[**toStub**](http://docs.google.com/javax/management/remote/rmi/RMIIIOPServerImpl.html#toStub())()            Returns an IIOP stub. |
| [Remote](http://docs.google.com/java/rmi/Remote.html) | **RMIJRMPServerImpl.**[**toStub**](http://docs.google.com/javax/management/remote/rmi/RMIJRMPServerImpl.html#toStub())()            Returns a serializable stub for this [RMIServer](http://docs.google.com/javax/management/remote/rmi/RMIServer.html) object. |
| abstract  [Remote](http://docs.google.com/java/rmi/Remote.html) | **RMIServerImpl.**[**toStub**](http://docs.google.com/javax/management/remote/rmi/RMIServerImpl.html#toStub())()            Returns a remotable stub for this server object. |
| void | **RMIConnectionImpl\_Stub.**[**unregisterMBean**](http://docs.google.com/javax/management/remote/rmi/RMIConnectionImpl_Stub.html#unregisterMBean(javax.management.ObjectName,%20javax.security.auth.Subject))([ObjectName](http://docs.google.com/javax/management/ObjectName.html) $param\_ObjectName\_1, [Subject](http://docs.google.com/javax/security/auth/Subject.html) $param\_Subject\_2) |
| void | **RMIConnectionImpl.**[**unregisterMBean**](http://docs.google.com/javax/management/remote/rmi/RMIConnectionImpl.html#unregisterMBean(javax.management.ObjectName,%20javax.security.auth.Subject))([ObjectName](http://docs.google.com/javax/management/ObjectName.html) name, [Subject](http://docs.google.com/javax/security/auth/Subject.html) delegationSubject) |
| void | **RMIConnection.**[**unregisterMBean**](http://docs.google.com/javax/management/remote/rmi/RMIConnection.html#unregisterMBean(javax.management.ObjectName,%20javax.security.auth.Subject))([ObjectName](http://docs.google.com/javax/management/ObjectName.html) name, [Subject](http://docs.google.com/javax/security/auth/Subject.html) delegationSubject)            Handles the method [MBeanServerConnection.unregisterMBean(ObjectName)](http://docs.google.com/javax/management/MBeanServerConnection.html#unregisterMBean(javax.management.ObjectName)). |

| Constructors in [javax.management.remote.rmi](http://docs.google.com/javax/management/remote/rmi/package-summary.html) that throw [IOException](http://docs.google.com/java/io/IOException.html) | |
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| [**RMIConnectorServer**](http://docs.google.com/javax/management/remote/rmi/RMIConnectorServer.html#RMIConnectorServer(javax.management.remote.JMXServiceURL,%20java.util.Map))([JMXServiceURL](http://docs.google.com/javax/management/remote/JMXServiceURL.html) url, [Map](http://docs.google.com/java/util/Map.html)<[String](http://docs.google.com/java/lang/String.html),?> environment)            Makes an RMIConnectorServer. |
| [**RMIConnectorServer**](http://docs.google.com/javax/management/remote/rmi/RMIConnectorServer.html#RMIConnectorServer(javax.management.remote.JMXServiceURL,%20java.util.Map,%20javax.management.MBeanServer))([JMXServiceURL](http://docs.google.com/javax/management/remote/JMXServiceURL.html) url, [Map](http://docs.google.com/java/util/Map.html)<[String](http://docs.google.com/java/lang/String.html),?> environment, [MBeanServer](http://docs.google.com/javax/management/MBeanServer.html) mbeanServer)            Makes an RMIConnectorServer for the given MBean server. |
| [**RMIConnectorServer**](http://docs.google.com/javax/management/remote/rmi/RMIConnectorServer.html#RMIConnectorServer(javax.management.remote.JMXServiceURL,%20java.util.Map,%20javax.management.remote.rmi.RMIServerImpl,%20javax.management.MBeanServer))([JMXServiceURL](http://docs.google.com/javax/management/remote/JMXServiceURL.html) url, [Map](http://docs.google.com/java/util/Map.html)<[String](http://docs.google.com/java/lang/String.html),?> environment, [RMIServerImpl](http://docs.google.com/javax/management/remote/rmi/RMIServerImpl.html) rmiServerImpl, [MBeanServer](http://docs.google.com/javax/management/MBeanServer.html) mbeanServer)            Makes an RMIConnectorServer for the given MBean server. |
| [**RMIIIOPServerImpl**](http://docs.google.com/javax/management/remote/rmi/RMIIIOPServerImpl.html#RMIIIOPServerImpl(java.util.Map))([Map](http://docs.google.com/java/util/Map.html)<[String](http://docs.google.com/java/lang/String.html),?> env)            Creates a new [RMIServerImpl](http://docs.google.com/javax/management/remote/rmi/RMIServerImpl.html). |
| [**RMIJRMPServerImpl**](http://docs.google.com/javax/management/remote/rmi/RMIJRMPServerImpl.html#RMIJRMPServerImpl(int,%20java.rmi.server.RMIClientSocketFactory,%20java.rmi.server.RMIServerSocketFactory,%20java.util.Map))(int port, [RMIClientSocketFactory](http://docs.google.com/java/rmi/server/RMIClientSocketFactory.html) csf, [RMIServerSocketFactory](http://docs.google.com/java/rmi/server/RMIServerSocketFactory.html) ssf, [Map](http://docs.google.com/java/util/Map.html)<[String](http://docs.google.com/java/lang/String.html),?> env)            Creates a new [RMIServer](http://docs.google.com/javax/management/remote/rmi/RMIServer.html) object that will be exported on the given port using the given socket factories. |

| Uses of [IOException](http://docs.google.com/java/io/IOException.html) in [javax.naming.ldap](http://docs.google.com/javax/naming/ldap/package-summary.html) | |
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| Methods in [javax.naming.ldap](http://docs.google.com/javax/naming/ldap/package-summary.html) that throw [IOException](http://docs.google.com/java/io/IOException.html) | |
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| abstract  void | **StartTlsResponse.**[**close**](http://docs.google.com/javax/naming/ldap/StartTlsResponse.html#close())()            Closes the TLS connection gracefully and reverts back to the underlying connection. |
| abstract  [SSLSession](http://docs.google.com/javax/net/ssl/SSLSession.html) | **StartTlsResponse.**[**negotiate**](http://docs.google.com/javax/naming/ldap/StartTlsResponse.html#negotiate())()            Negotiates a TLS session using the default SSL socket factory. |
| abstract  [SSLSession](http://docs.google.com/javax/net/ssl/SSLSession.html) | **StartTlsResponse.**[**negotiate**](http://docs.google.com/javax/naming/ldap/StartTlsResponse.html#negotiate(javax.net.ssl.SSLSocketFactory))([SSLSocketFactory](http://docs.google.com/javax/net/ssl/SSLSocketFactory.html) factory)            Negotiates a TLS session using an SSL socket factory. |

| Constructors in [javax.naming.ldap](http://docs.google.com/javax/naming/ldap/package-summary.html) that throw [IOException](http://docs.google.com/java/io/IOException.html) | |
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| [**PagedResultsControl**](http://docs.google.com/javax/naming/ldap/PagedResultsControl.html#PagedResultsControl(int,%20boolean))(int pageSize, boolean criticality)            Constructs a control to set the number of entries to be returned per page of results. |
| [**PagedResultsControl**](http://docs.google.com/javax/naming/ldap/PagedResultsControl.html#PagedResultsControl(int,%20byte%5B%5D,%20boolean))(int pageSize, byte[] cookie, boolean criticality)            Constructs a control to set the number of entries to be returned per page of results. |
| [**PagedResultsResponseControl**](http://docs.google.com/javax/naming/ldap/PagedResultsResponseControl.html#PagedResultsResponseControl(java.lang.String,%20boolean,%20byte%5B%5D))([String](http://docs.google.com/java/lang/String.html) id, boolean criticality, byte[] value)            Constructs a paged-results response control. |
| [**SortControl**](http://docs.google.com/javax/naming/ldap/SortControl.html#SortControl(javax.naming.ldap.SortKey%5B%5D,%20boolean))([SortKey](http://docs.google.com/javax/naming/ldap/SortKey.html)[] sortBy, boolean criticality)            Constructs a control to sort on a list of sort keys. |
| [**SortControl**](http://docs.google.com/javax/naming/ldap/SortControl.html#SortControl(java.lang.String%5B%5D,%20boolean))([String](http://docs.google.com/java/lang/String.html)[] sortBy, boolean criticality)            Constructs a control to sort on a list of attributes in ascending order. |
| [**SortControl**](http://docs.google.com/javax/naming/ldap/SortControl.html#SortControl(java.lang.String,%20boolean))([String](http://docs.google.com/java/lang/String.html) sortBy, boolean criticality)            Constructs a control to sort on a single attribute in ascending order. |
| [**SortResponseControl**](http://docs.google.com/javax/naming/ldap/SortResponseControl.html#SortResponseControl(java.lang.String,%20boolean,%20byte%5B%5D))([String](http://docs.google.com/java/lang/String.html) id, boolean criticality, byte[] value)            Constructs a control to indicate the outcome of a sort request. |

| Uses of [IOException](http://docs.google.com/java/io/IOException.html) in [javax.net](http://docs.google.com/javax/net/package-summary.html) | |
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| Methods in [javax.net](http://docs.google.com/javax/net/package-summary.html) that throw [IOException](http://docs.google.com/java/io/IOException.html) | |
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| [ServerSocket](http://docs.google.com/java/net/ServerSocket.html) | **ServerSocketFactory.**[**createServerSocket**](http://docs.google.com/javax/net/ServerSocketFactory.html#createServerSocket())()            Returns an unbound server socket. |
| abstract  [ServerSocket](http://docs.google.com/java/net/ServerSocket.html) | **ServerSocketFactory.**[**createServerSocket**](http://docs.google.com/javax/net/ServerSocketFactory.html#createServerSocket(int))(int port)            Returns a server socket bound to the specified port. |
| abstract  [ServerSocket](http://docs.google.com/java/net/ServerSocket.html) | **ServerSocketFactory.**[**createServerSocket**](http://docs.google.com/javax/net/ServerSocketFactory.html#createServerSocket(int,%20int))(int port, int backlog)            Returns a server socket bound to the specified port, and uses the specified connection backlog. |
| abstract  [ServerSocket](http://docs.google.com/java/net/ServerSocket.html) | **ServerSocketFactory.**[**createServerSocket**](http://docs.google.com/javax/net/ServerSocketFactory.html#createServerSocket(int,%20int,%20java.net.InetAddress))(int port, int backlog, [InetAddress](http://docs.google.com/java/net/InetAddress.html) ifAddress)            Returns a server socket bound to the specified port, with a specified listen backlog and local IP. |
| [Socket](http://docs.google.com/java/net/Socket.html) | **SocketFactory.**[**createSocket**](http://docs.google.com/javax/net/SocketFactory.html#createSocket())()            Creates an unconnected socket. |
| abstract  [Socket](http://docs.google.com/java/net/Socket.html) | **SocketFactory.**[**createSocket**](http://docs.google.com/javax/net/SocketFactory.html#createSocket(java.net.InetAddress,%20int))([InetAddress](http://docs.google.com/java/net/InetAddress.html) host, int port)            Creates a socket and connects it to the specified port number at the specified address. |
| abstract  [Socket](http://docs.google.com/java/net/Socket.html) | **SocketFactory.**[**createSocket**](http://docs.google.com/javax/net/SocketFactory.html#createSocket(java.net.InetAddress,%20int,%20java.net.InetAddress,%20int))([InetAddress](http://docs.google.com/java/net/InetAddress.html) address, int port, [InetAddress](http://docs.google.com/java/net/InetAddress.html) localAddress, int localPort)            Creates a socket and connect it to the specified remote address on the specified remote port. |
| abstract  [Socket](http://docs.google.com/java/net/Socket.html) | **SocketFactory.**[**createSocket**](http://docs.google.com/javax/net/SocketFactory.html#createSocket(java.lang.String,%20int))([String](http://docs.google.com/java/lang/String.html) host, int port)            Creates a socket and connects it to the specified remote host at the specified remote port. |
| abstract  [Socket](http://docs.google.com/java/net/Socket.html) | **SocketFactory.**[**createSocket**](http://docs.google.com/javax/net/SocketFactory.html#createSocket(java.lang.String,%20int,%20java.net.InetAddress,%20int))([String](http://docs.google.com/java/lang/String.html) host, int port, [InetAddress](http://docs.google.com/java/net/InetAddress.html) localHost, int localPort)            Creates a socket and connects it to the specified remote host on the specified remote port. |

| Uses of [IOException](http://docs.google.com/java/io/IOException.html) in [javax.net.ssl](http://docs.google.com/javax/net/ssl/package-summary.html) | |
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| Subclasses of [IOException](http://docs.google.com/java/io/IOException.html) in [javax.net.ssl](http://docs.google.com/javax/net/ssl/package-summary.html) | |
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| class | [**SSLException**](http://docs.google.com/javax/net/ssl/SSLException.html)            Indicates some kind of error detected by an SSL subsystem. |
| class | [**SSLHandshakeException**](http://docs.google.com/javax/net/ssl/SSLHandshakeException.html)            Indicates that the client and server could not negotiate the desired level of security. |
| class | [**SSLKeyException**](http://docs.google.com/javax/net/ssl/SSLKeyException.html)            Reports a bad SSL key. |
| class | [**SSLPeerUnverifiedException**](http://docs.google.com/javax/net/ssl/SSLPeerUnverifiedException.html)            Indicates that the peer's identity has not been verified. |
| class | [**SSLProtocolException**](http://docs.google.com/javax/net/ssl/SSLProtocolException.html)            Reports an error in the operation of the SSL protocol. |

| Methods in [javax.net.ssl](http://docs.google.com/javax/net/ssl/package-summary.html) that throw [IOException](http://docs.google.com/java/io/IOException.html) | |
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| abstract  [Socket](http://docs.google.com/java/net/Socket.html) | **SSLSocketFactory.**[**createSocket**](http://docs.google.com/javax/net/ssl/SSLSocketFactory.html#createSocket(java.net.Socket,%20java.lang.String,%20int,%20boolean))([Socket](http://docs.google.com/java/net/Socket.html) s, [String](http://docs.google.com/java/lang/String.html) host, int port, boolean autoClose)            Returns a socket layered over an existing socket connected to the named host, at the given port. |
| abstract  void | **SSLSocket.**[**startHandshake**](http://docs.google.com/javax/net/ssl/SSLSocket.html#startHandshake())()            Starts an SSL handshake on this connection. |

| Constructors in [javax.net.ssl](http://docs.google.com/javax/net/ssl/package-summary.html) that throw [IOException](http://docs.google.com/java/io/IOException.html) | |
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| [**SSLServerSocket**](http://docs.google.com/javax/net/ssl/SSLServerSocket.html#SSLServerSocket())()            Used only by subclasses. |
| [**SSLServerSocket**](http://docs.google.com/javax/net/ssl/SSLServerSocket.html#SSLServerSocket(int))(int port)            Used only by subclasses. |
| [**SSLServerSocket**](http://docs.google.com/javax/net/ssl/SSLServerSocket.html#SSLServerSocket(int,%20int))(int port, int backlog)            Used only by subclasses. |
| [**SSLServerSocket**](http://docs.google.com/javax/net/ssl/SSLServerSocket.html#SSLServerSocket(int,%20int,%20java.net.InetAddress))(int port, int backlog, [InetAddress](http://docs.google.com/java/net/InetAddress.html) address)            Used only by subclasses. |
| [**SSLSocket**](http://docs.google.com/javax/net/ssl/SSLSocket.html#SSLSocket(java.net.InetAddress,%20int))([InetAddress](http://docs.google.com/java/net/InetAddress.html) address, int port)            Used only by subclasses. |
| [**SSLSocket**](http://docs.google.com/javax/net/ssl/SSLSocket.html#SSLSocket(java.net.InetAddress,%20int,%20java.net.InetAddress,%20int))([InetAddress](http://docs.google.com/java/net/InetAddress.html) address, int port, [InetAddress](http://docs.google.com/java/net/InetAddress.html) clientAddress, int clientPort)            Used only by subclasses. |
| [**SSLSocket**](http://docs.google.com/javax/net/ssl/SSLSocket.html#SSLSocket(java.lang.String,%20int))([String](http://docs.google.com/java/lang/String.html) host, int port)            Used only by subclasses. |
| [**SSLSocket**](http://docs.google.com/javax/net/ssl/SSLSocket.html#SSLSocket(java.lang.String,%20int,%20java.net.InetAddress,%20int))([String](http://docs.google.com/java/lang/String.html) host, int port, [InetAddress](http://docs.google.com/java/net/InetAddress.html) clientAddress, int clientPort)            Used only by subclasses. |

| Uses of [IOException](http://docs.google.com/java/io/IOException.html) in [javax.print](http://docs.google.com/javax/print/package-summary.html) | |
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| Methods in [javax.print](http://docs.google.com/javax/print/package-summary.html) that throw [IOException](http://docs.google.com/java/io/IOException.html) | |
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| [Doc](http://docs.google.com/javax/print/Doc.html) | **MultiDoc.**[**getDoc**](http://docs.google.com/javax/print/MultiDoc.html#getDoc())()            Obtain the current doc object. |
| [Object](http://docs.google.com/java/lang/Object.html) | **SimpleDoc.**[**getPrintData**](http://docs.google.com/javax/print/SimpleDoc.html#getPrintData())() |
| [Object](http://docs.google.com/java/lang/Object.html) | **Doc.**[**getPrintData**](http://docs.google.com/javax/print/Doc.html#getPrintData())()            Obtains the print data representation object that contains this doc object's piece of print data in the format corresponding to the supported doc flavor. |
| [Reader](http://docs.google.com/java/io/Reader.html) | **SimpleDoc.**[**getReaderForText**](http://docs.google.com/javax/print/SimpleDoc.html#getReaderForText())()            Obtains a reader for extracting character print data from this doc. |
| [Reader](http://docs.google.com/java/io/Reader.html) | **Doc.**[**getReaderForText**](http://docs.google.com/javax/print/Doc.html#getReaderForText())()            Obtains a reader for extracting character print data from this doc. |
| [InputStream](http://docs.google.com/java/io/InputStream.html) | **SimpleDoc.**[**getStreamForBytes**](http://docs.google.com/javax/print/SimpleDoc.html#getStreamForBytes())()            Obtains an input stream for extracting byte print data from this doc. |
| [InputStream](http://docs.google.com/java/io/InputStream.html) | **Doc.**[**getStreamForBytes**](http://docs.google.com/javax/print/Doc.html#getStreamForBytes())()            Obtains an input stream for extracting byte print data from this doc. |
| [MultiDoc](http://docs.google.com/javax/print/MultiDoc.html) | **MultiDoc.**[**next**](http://docs.google.com/javax/print/MultiDoc.html#next())()            Go to the multidoc object that contains the next doc object in the sequence of doc objects. |

| Uses of [IOException](http://docs.google.com/java/io/IOException.html) in [javax.rmi.CORBA](http://docs.google.com/javax/rmi/CORBA/package-summary.html) | |
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| Methods in [javax.rmi.CORBA](http://docs.google.com/javax/rmi/CORBA/package-summary.html) that throw [IOException](http://docs.google.com/java/io/IOException.html) | |
| --- | --- |
| void | **StubDelegate.**[**readObject**](http://docs.google.com/javax/rmi/CORBA/StubDelegate.html#readObject(javax.rmi.CORBA.Stub,%20java.io.ObjectInputStream))([Stub](http://docs.google.com/javax/rmi/CORBA/Stub.html) self, [ObjectInputStream](http://docs.google.com/java/io/ObjectInputStream.html) s)            Delegation call for [Stub.readObject(java.io.ObjectInputStream)](http://docs.google.com/serialized-form.html#javax.rmi.CORBA.Stub). |
| void | **StubDelegate.**[**writeObject**](http://docs.google.com/javax/rmi/CORBA/StubDelegate.html#writeObject(javax.rmi.CORBA.Stub,%20java.io.ObjectOutputStream))([Stub](http://docs.google.com/javax/rmi/CORBA/Stub.html) self, [ObjectOutputStream](http://docs.google.com/java/io/ObjectOutputStream.html) s)            Delegation call for [Stub.writeObject(java.io.ObjectOutputStream)](http://docs.google.com/serialized-form.html#javax.rmi.CORBA.Stub). |

| Uses of [IOException](http://docs.google.com/java/io/IOException.html) in [javax.rmi.ssl](http://docs.google.com/javax/rmi/ssl/package-summary.html) | |
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| Methods in [javax.rmi.ssl](http://docs.google.com/javax/rmi/ssl/package-summary.html) that throw [IOException](http://docs.google.com/java/io/IOException.html) | |
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| [ServerSocket](http://docs.google.com/java/net/ServerSocket.html) | **SslRMIServerSocketFactory.**[**createServerSocket**](http://docs.google.com/javax/rmi/ssl/SslRMIServerSocketFactory.html#createServerSocket(int))(int port)            Creates a server socket that accepts SSL connections configured according to this factory's SSL socket configuration parameters. |
| [Socket](http://docs.google.com/java/net/Socket.html) | **SslRMIClientSocketFactory.**[**createSocket**](http://docs.google.com/javax/rmi/ssl/SslRMIClientSocketFactory.html#createSocket(java.lang.String,%20int))([String](http://docs.google.com/java/lang/String.html) host, int port)            Creates an SSL socket. |

| Uses of [IOException](http://docs.google.com/java/io/IOException.html) in [javax.security.auth.callback](http://docs.google.com/javax/security/auth/callback/package-summary.html) | |
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| Methods in [javax.security.auth.callback](http://docs.google.com/javax/security/auth/callback/package-summary.html) that throw [IOException](http://docs.google.com/java/io/IOException.html) | |
| --- | --- |
| void | **CallbackHandler.**[**handle**](http://docs.google.com/javax/security/auth/callback/CallbackHandler.html#handle(javax.security.auth.callback.Callback%5B%5D))([Callback](http://docs.google.com/javax/security/auth/callback/Callback.html)[] callbacks)             Retrieve or display the information requested in the provided Callbacks. |

| Uses of [IOException](http://docs.google.com/java/io/IOException.html) in [javax.security.sasl](http://docs.google.com/javax/security/sasl/package-summary.html) | |
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| Subclasses of [IOException](http://docs.google.com/java/io/IOException.html) in [javax.security.sasl](http://docs.google.com/javax/security/sasl/package-summary.html) | |
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| class | [**AuthenticationException**](http://docs.google.com/javax/security/sasl/AuthenticationException.html)            This exception is thrown by a SASL mechanism implementation to indicate that the SASL exchange has failed due to reasons related to authentication, such as an invalid identity, passphrase, or key. |
| class | [**SaslException**](http://docs.google.com/javax/security/sasl/SaslException.html)            This class represents an error that has occurred when using SASL. |

| Uses of [IOException](http://docs.google.com/java/io/IOException.html) in [javax.sound.midi](http://docs.google.com/javax/sound/midi/package-summary.html) | |
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| Methods in [javax.sound.midi](http://docs.google.com/javax/sound/midi/package-summary.html) that throw [IOException](http://docs.google.com/java/io/IOException.html) | |
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| static [MidiFileFormat](http://docs.google.com/javax/sound/midi/MidiFileFormat.html) | **MidiSystem.**[**getMidiFileFormat**](http://docs.google.com/javax/sound/midi/MidiSystem.html#getMidiFileFormat(java.io.File))([File](http://docs.google.com/java/io/File.html) file)            Obtains the MIDI file format of the specified File. |
| static [MidiFileFormat](http://docs.google.com/javax/sound/midi/MidiFileFormat.html) | **MidiSystem.**[**getMidiFileFormat**](http://docs.google.com/javax/sound/midi/MidiSystem.html#getMidiFileFormat(java.io.InputStream))([InputStream](http://docs.google.com/java/io/InputStream.html) stream)            Obtains the MIDI file format of the data in the specified input stream. |
| static [MidiFileFormat](http://docs.google.com/javax/sound/midi/MidiFileFormat.html) | **MidiSystem.**[**getMidiFileFormat**](http://docs.google.com/javax/sound/midi/MidiSystem.html#getMidiFileFormat(java.net.URL))([URL](http://docs.google.com/java/net/URL.html) url)            Obtains the MIDI file format of the data in the specified URL. |
| static [Sequence](http://docs.google.com/javax/sound/midi/Sequence.html) | **MidiSystem.**[**getSequence**](http://docs.google.com/javax/sound/midi/MidiSystem.html#getSequence(java.io.File))([File](http://docs.google.com/java/io/File.html) file)            Obtains a MIDI sequence from the specified File. |
| static [Sequence](http://docs.google.com/javax/sound/midi/Sequence.html) | **MidiSystem.**[**getSequence**](http://docs.google.com/javax/sound/midi/MidiSystem.html#getSequence(java.io.InputStream))([InputStream](http://docs.google.com/java/io/InputStream.html) stream)            Obtains a MIDI sequence from the specified input stream. |
| static [Sequence](http://docs.google.com/javax/sound/midi/Sequence.html) | **MidiSystem.**[**getSequence**](http://docs.google.com/javax/sound/midi/MidiSystem.html#getSequence(java.net.URL))([URL](http://docs.google.com/java/net/URL.html) url)            Obtains a MIDI sequence from the specified URL. |
| static [Soundbank](http://docs.google.com/javax/sound/midi/Soundbank.html) | **MidiSystem.**[**getSoundbank**](http://docs.google.com/javax/sound/midi/MidiSystem.html#getSoundbank(java.io.File))([File](http://docs.google.com/java/io/File.html) file)            Constructs a Soundbank by reading it from the specified File. |
| static [Soundbank](http://docs.google.com/javax/sound/midi/Soundbank.html) | **MidiSystem.**[**getSoundbank**](http://docs.google.com/javax/sound/midi/MidiSystem.html#getSoundbank(java.io.InputStream))([InputStream](http://docs.google.com/java/io/InputStream.html) stream)            Constructs a MIDI sound bank by reading it from the specified stream. |
| static [Soundbank](http://docs.google.com/javax/sound/midi/Soundbank.html) | **MidiSystem.**[**getSoundbank**](http://docs.google.com/javax/sound/midi/MidiSystem.html#getSoundbank(java.net.URL))([URL](http://docs.google.com/java/net/URL.html) url)            Constructs a Soundbank by reading it from the specified URL. |
| void | **Sequencer.**[**setSequence**](http://docs.google.com/javax/sound/midi/Sequencer.html#setSequence(java.io.InputStream))([InputStream](http://docs.google.com/java/io/InputStream.html) stream)            Sets the current sequence on which the sequencer operates. |
| static int | **MidiSystem.**[**write**](http://docs.google.com/javax/sound/midi/MidiSystem.html#write(javax.sound.midi.Sequence,%20int,%20java.io.File))([Sequence](http://docs.google.com/javax/sound/midi/Sequence.html) in, int type, [File](http://docs.google.com/java/io/File.html) out)            Writes a stream of bytes representing a file of the MIDI file type indicated to the external file provided. |
| static int | **MidiSystem.**[**write**](http://docs.google.com/javax/sound/midi/MidiSystem.html#write(javax.sound.midi.Sequence,%20int,%20java.io.OutputStream))([Sequence](http://docs.google.com/javax/sound/midi/Sequence.html) in, int fileType, [OutputStream](http://docs.google.com/java/io/OutputStream.html) out)            Writes a stream of bytes representing a file of the MIDI file type indicated to the output stream provided. |

| Uses of [IOException](http://docs.google.com/java/io/IOException.html) in [javax.sound.midi.spi](http://docs.google.com/javax/sound/midi/spi/package-summary.html) | |
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| Methods in [javax.sound.midi.spi](http://docs.google.com/javax/sound/midi/spi/package-summary.html) that throw [IOException](http://docs.google.com/java/io/IOException.html) | |
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| abstract  [MidiFileFormat](http://docs.google.com/javax/sound/midi/MidiFileFormat.html) | **MidiFileReader.**[**getMidiFileFormat**](http://docs.google.com/javax/sound/midi/spi/MidiFileReader.html#getMidiFileFormat(java.io.File))([File](http://docs.google.com/java/io/File.html) file)            Obtains the MIDI file format of the File provided. |
| abstract  [MidiFileFormat](http://docs.google.com/javax/sound/midi/MidiFileFormat.html) | **MidiFileReader.**[**getMidiFileFormat**](http://docs.google.com/javax/sound/midi/spi/MidiFileReader.html#getMidiFileFormat(java.io.InputStream))([InputStream](http://docs.google.com/java/io/InputStream.html) stream)            Obtains the MIDI file format of the input stream provided. |
| abstract  [MidiFileFormat](http://docs.google.com/javax/sound/midi/MidiFileFormat.html) | **MidiFileReader.**[**getMidiFileFormat**](http://docs.google.com/javax/sound/midi/spi/MidiFileReader.html#getMidiFileFormat(java.net.URL))([URL](http://docs.google.com/java/net/URL.html) url)            Obtains the MIDI file format of the URL provided. |
| abstract  [Sequence](http://docs.google.com/javax/sound/midi/Sequence.html) | **MidiFileReader.**[**getSequence**](http://docs.google.com/javax/sound/midi/spi/MidiFileReader.html#getSequence(java.io.File))([File](http://docs.google.com/java/io/File.html) file)            Obtains a MIDI sequence from the File provided. |
| abstract  [Sequence](http://docs.google.com/javax/sound/midi/Sequence.html) | **MidiFileReader.**[**getSequence**](http://docs.google.com/javax/sound/midi/spi/MidiFileReader.html#getSequence(java.io.InputStream))([InputStream](http://docs.google.com/java/io/InputStream.html) stream)            Obtains a MIDI sequence from the input stream provided. |
| abstract  [Sequence](http://docs.google.com/javax/sound/midi/Sequence.html) | **MidiFileReader.**[**getSequence**](http://docs.google.com/javax/sound/midi/spi/MidiFileReader.html#getSequence(java.net.URL))([URL](http://docs.google.com/java/net/URL.html) url)            Obtains a MIDI sequence from the URL provided. |
| abstract  [Soundbank](http://docs.google.com/javax/sound/midi/Soundbank.html) | **SoundbankReader.**[**getSoundbank**](http://docs.google.com/javax/sound/midi/spi/SoundbankReader.html#getSoundbank(java.io.File))([File](http://docs.google.com/java/io/File.html) file)            Obtains a soundbank object from the File provided. |
| abstract  [Soundbank](http://docs.google.com/javax/sound/midi/Soundbank.html) | **SoundbankReader.**[**getSoundbank**](http://docs.google.com/javax/sound/midi/spi/SoundbankReader.html#getSoundbank(java.io.InputStream))([InputStream](http://docs.google.com/java/io/InputStream.html) stream)            Obtains a soundbank object from the InputStream provided. |
| abstract  [Soundbank](http://docs.google.com/javax/sound/midi/Soundbank.html) | **SoundbankReader.**[**getSoundbank**](http://docs.google.com/javax/sound/midi/spi/SoundbankReader.html#getSoundbank(java.net.URL))([URL](http://docs.google.com/java/net/URL.html) url)            Obtains a soundbank object from the URL provided. |
| abstract  int | **MidiFileWriter.**[**write**](http://docs.google.com/javax/sound/midi/spi/MidiFileWriter.html#write(javax.sound.midi.Sequence,%20int,%20java.io.File))([Sequence](http://docs.google.com/javax/sound/midi/Sequence.html) in, int fileType, [File](http://docs.google.com/java/io/File.html) out)            Writes a stream of bytes representing a MIDI file of the file type indicated to the external file provided. |
| abstract  int | **MidiFileWriter.**[**write**](http://docs.google.com/javax/sound/midi/spi/MidiFileWriter.html#write(javax.sound.midi.Sequence,%20int,%20java.io.OutputStream))([Sequence](http://docs.google.com/javax/sound/midi/Sequence.html) in, int fileType, [OutputStream](http://docs.google.com/java/io/OutputStream.html) out)            Writes a stream of bytes representing a MIDI file of the file type indicated to the output stream provided. |

| Uses of [IOException](http://docs.google.com/java/io/IOException.html) in [javax.sound.sampled](http://docs.google.com/javax/sound/sampled/package-summary.html) | |
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| Methods in [javax.sound.sampled](http://docs.google.com/javax/sound/sampled/package-summary.html) that throw [IOException](http://docs.google.com/java/io/IOException.html) | |
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| int | **AudioInputStream.**[**available**](http://docs.google.com/javax/sound/sampled/AudioInputStream.html#available())()            Returns the maximum number of bytes that can be read (or skipped over) from this audio input stream without blocking. |
| void | **AudioInputStream.**[**close**](http://docs.google.com/javax/sound/sampled/AudioInputStream.html#close())()            Closes this audio input stream and releases any system resources associated with the stream. |
| static [AudioFileFormat](http://docs.google.com/javax/sound/sampled/AudioFileFormat.html) | **AudioSystem.**[**getAudioFileFormat**](http://docs.google.com/javax/sound/sampled/AudioSystem.html#getAudioFileFormat(java.io.File))([File](http://docs.google.com/java/io/File.html) file)            Obtains the audio file format of the specified File. |
| static [AudioFileFormat](http://docs.google.com/javax/sound/sampled/AudioFileFormat.html) | **AudioSystem.**[**getAudioFileFormat**](http://docs.google.com/javax/sound/sampled/AudioSystem.html#getAudioFileFormat(java.io.InputStream))([InputStream](http://docs.google.com/java/io/InputStream.html) stream)            Obtains the audio file format of the provided input stream. |
| static [AudioFileFormat](http://docs.google.com/javax/sound/sampled/AudioFileFormat.html) | **AudioSystem.**[**getAudioFileFormat**](http://docs.google.com/javax/sound/sampled/AudioSystem.html#getAudioFileFormat(java.net.URL))([URL](http://docs.google.com/java/net/URL.html) url)            Obtains the audio file format of the specified URL. |
| static [AudioInputStream](http://docs.google.com/javax/sound/sampled/AudioInputStream.html) | **AudioSystem.**[**getAudioInputStream**](http://docs.google.com/javax/sound/sampled/AudioSystem.html#getAudioInputStream(java.io.File))([File](http://docs.google.com/java/io/File.html) file)            Obtains an audio input stream from the provided File. |
| static [AudioInputStream](http://docs.google.com/javax/sound/sampled/AudioInputStream.html) | **AudioSystem.**[**getAudioInputStream**](http://docs.google.com/javax/sound/sampled/AudioSystem.html#getAudioInputStream(java.io.InputStream))([InputStream](http://docs.google.com/java/io/InputStream.html) stream)            Obtains an audio input stream from the provided input stream. |
| static [AudioInputStream](http://docs.google.com/javax/sound/sampled/AudioInputStream.html) | **AudioSystem.**[**getAudioInputStream**](http://docs.google.com/javax/sound/sampled/AudioSystem.html#getAudioInputStream(java.net.URL))([URL](http://docs.google.com/java/net/URL.html) url)            Obtains an audio input stream from the URL provided. |
| void | **Clip.**[**open**](http://docs.google.com/javax/sound/sampled/Clip.html#open(javax.sound.sampled.AudioInputStream))([AudioInputStream](http://docs.google.com/javax/sound/sampled/AudioInputStream.html) stream)            Opens the clip with the format and audio data present in the provided audio input stream. |
| int | **AudioInputStream.**[**read**](http://docs.google.com/javax/sound/sampled/AudioInputStream.html#read())()            Reads the next byte of data from the audio input stream. |
| int | **AudioInputStream.**[**read**](http://docs.google.com/javax/sound/sampled/AudioInputStream.html#read(byte%5B%5D))(byte[] b)            Reads some number of bytes from the audio input stream and stores them into the buffer array b. |
| int | **AudioInputStream.**[**read**](http://docs.google.com/javax/sound/sampled/AudioInputStream.html#read(byte%5B%5D,%20int,%20int))(byte[] b, int off, int len)            Reads up to a specified maximum number of bytes of data from the audio stream, putting them into the given byte array. |
| void | **AudioInputStream.**[**reset**](http://docs.google.com/javax/sound/sampled/AudioInputStream.html#reset())()            Repositions this audio input stream to the position it had at the time its mark method was last invoked. |
| long | **AudioInputStream.**[**skip**](http://docs.google.com/javax/sound/sampled/AudioInputStream.html#skip(long))(long n)            Skips over and discards a specified number of bytes from this audio input stream. |
| static int | **AudioSystem.**[**write**](http://docs.google.com/javax/sound/sampled/AudioSystem.html#write(javax.sound.sampled.AudioInputStream,%20javax.sound.sampled.AudioFileFormat.Type,%20java.io.File))([AudioInputStream](http://docs.google.com/javax/sound/sampled/AudioInputStream.html) stream, [AudioFileFormat.Type](http://docs.google.com/javax/sound/sampled/AudioFileFormat.Type.html) fileType, [File](http://docs.google.com/java/io/File.html) out)            Writes a stream of bytes representing an audio file of the specified file type to the external file provided. |
| static int | **AudioSystem.**[**write**](http://docs.google.com/javax/sound/sampled/AudioSystem.html#write(javax.sound.sampled.AudioInputStream,%20javax.sound.sampled.AudioFileFormat.Type,%20java.io.OutputStream))([AudioInputStream](http://docs.google.com/javax/sound/sampled/AudioInputStream.html) stream, [AudioFileFormat.Type](http://docs.google.com/javax/sound/sampled/AudioFileFormat.Type.html) fileType, [OutputStream](http://docs.google.com/java/io/OutputStream.html) out)            Writes a stream of bytes representing an audio file of the specified file type to the output stream provided. |

| Uses of [IOException](http://docs.google.com/java/io/IOException.html) in [javax.sound.sampled.spi](http://docs.google.com/javax/sound/sampled/spi/package-summary.html) | |
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| Methods in [javax.sound.sampled.spi](http://docs.google.com/javax/sound/sampled/spi/package-summary.html) that throw [IOException](http://docs.google.com/java/io/IOException.html) | |
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| abstract  [AudioFileFormat](http://docs.google.com/javax/sound/sampled/AudioFileFormat.html) | **AudioFileReader.**[**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) | **AudioFileReader.**[**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) | **AudioFileReader.**[**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) | **AudioFileReader.**[**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) | **AudioFileReader.**[**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) | **AudioFileReader.**[**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. |
| abstract  int | **AudioFileWriter.**[**write**](http://docs.google.com/javax/sound/sampled/spi/AudioFileWriter.html#write(javax.sound.sampled.AudioInputStream,%20javax.sound.sampled.AudioFileFormat.Type,%20java.io.File))([AudioInputStream](http://docs.google.com/javax/sound/sampled/AudioInputStream.html) stream, [AudioFileFormat.Type](http://docs.google.com/javax/sound/sampled/AudioFileFormat.Type.html) fileType, [File](http://docs.google.com/java/io/File.html) out)            Writes a stream of bytes representing an audio file of the file format indicated to the external file provided. |
| abstract  int | **AudioFileWriter.**[**write**](http://docs.google.com/javax/sound/sampled/spi/AudioFileWriter.html#write(javax.sound.sampled.AudioInputStream,%20javax.sound.sampled.AudioFileFormat.Type,%20java.io.OutputStream))([AudioInputStream](http://docs.google.com/javax/sound/sampled/AudioInputStream.html) stream, [AudioFileFormat.Type](http://docs.google.com/javax/sound/sampled/AudioFileFormat.Type.html) fileType, [OutputStream](http://docs.google.com/java/io/OutputStream.html) out)            Writes a stream of bytes representing an audio file of the file type indicated to the output stream provided. |

| Uses of [IOException](http://docs.google.com/java/io/IOException.html) in [javax.sql.rowset](http://docs.google.com/javax/sql/rowset/package-summary.html) | |
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| Methods in [javax.sql.rowset](http://docs.google.com/javax/sql/rowset/package-summary.html) that throw [IOException](http://docs.google.com/java/io/IOException.html) | |
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| void | **WebRowSet.**[**readXml**](http://docs.google.com/javax/sql/rowset/WebRowSet.html#readXml(java.io.InputStream))([InputStream](http://docs.google.com/java/io/InputStream.html) iStream)            Reads a stream based XML input to populate this WebRowSet object. |
| void | **WebRowSet.**[**writeXml**](http://docs.google.com/javax/sql/rowset/WebRowSet.html#writeXml(java.io.OutputStream))([OutputStream](http://docs.google.com/java/io/OutputStream.html) oStream)            Writes the data, properties, and metadata for this WebRowSet object to the given OutputStream object in XML format. |
| void | **WebRowSet.**[**writeXml**](http://docs.google.com/javax/sql/rowset/WebRowSet.html#writeXml(java.sql.ResultSet,%20java.io.OutputStream))([ResultSet](http://docs.google.com/java/sql/ResultSet.html) rs, [OutputStream](http://docs.google.com/java/io/OutputStream.html) oStream)            Populates this WebRowSet object with the contents of the given ResultSet object and writes its data, properties, and metadata to the given OutputStream object in XML format. |

| Uses of [IOException](http://docs.google.com/java/io/IOException.html) in [javax.swing](http://docs.google.com/javax/swing/package-summary.html) | |
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| Methods in [javax.swing](http://docs.google.com/javax/swing/package-summary.html) that throw [IOException](http://docs.google.com/java/io/IOException.html) | |
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| void | **ProgressMonitorInputStream.**[**close**](http://docs.google.com/javax/swing/ProgressMonitorInputStream.html#close())()            Overrides FilterInputStream.close to close the progress monitor as well as the stream. |
| protected  [InputStream](http://docs.google.com/java/io/InputStream.html) | **JEditorPane.**[**getStream**](http://docs.google.com/javax/swing/JEditorPane.html#getStream(java.net.URL))([URL](http://docs.google.com/java/net/URL.html) page)            Fetches a stream for the given URL, which is about to be loaded by the setPage method. |
| int | **ProgressMonitorInputStream.**[**read**](http://docs.google.com/javax/swing/ProgressMonitorInputStream.html#read())()            Overrides FilterInputStream.read to update the progress monitor after the read. |
| int | **ProgressMonitorInputStream.**[**read**](http://docs.google.com/javax/swing/ProgressMonitorInputStream.html#read(byte%5B%5D))(byte[] b)            Overrides FilterInputStream.read to update the progress monitor after the read. |
| int | **ProgressMonitorInputStream.**[**read**](http://docs.google.com/javax/swing/ProgressMonitorInputStream.html#read(byte%5B%5D,%20int,%20int))(byte[] b, int off, int len)            Overrides FilterInputStream.read to update the progress monitor after the read. |
| void | **JEditorPane.**[**read**](http://docs.google.com/javax/swing/JEditorPane.html#read(java.io.InputStream,%20java.lang.Object))([InputStream](http://docs.google.com/java/io/InputStream.html) in, [Object](http://docs.google.com/java/lang/Object.html) desc)            This method initializes from a stream. |
| void | **ProgressMonitorInputStream.**[**reset**](http://docs.google.com/javax/swing/ProgressMonitorInputStream.html#reset())()            Overrides FilterInputStream.reset to reset the progress monitor as well as the stream. |
| void | **JEditorPane.**[**setPage**](http://docs.google.com/javax/swing/JEditorPane.html#setPage(java.lang.String))([String](http://docs.google.com/java/lang/String.html) url)            Sets the current URL being displayed. |
| void | **JEditorPane.**[**setPage**](http://docs.google.com/javax/swing/JEditorPane.html#setPage(java.net.URL))([URL](http://docs.google.com/java/net/URL.html) page)            Sets the current URL being displayed. |
| long | **ProgressMonitorInputStream.**[**skip**](http://docs.google.com/javax/swing/ProgressMonitorInputStream.html#skip(long))(long n)            Overrides FilterInputStream.skip to update the progress monitor after the skip. |

| Constructors in [javax.swing](http://docs.google.com/javax/swing/package-summary.html) that throw [IOException](http://docs.google.com/java/io/IOException.html) | |
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| [**JEditorPane**](http://docs.google.com/javax/swing/JEditorPane.html#JEditorPane(java.lang.String))([String](http://docs.google.com/java/lang/String.html) url)            Creates a JEditorPane based on a string containing a URL specification. |
| [**JEditorPane**](http://docs.google.com/javax/swing/JEditorPane.html#JEditorPane(java.net.URL))([URL](http://docs.google.com/java/net/URL.html) initialPage)            Creates a JEditorPane based on a specified URL for input. |

| Uses of [IOException](http://docs.google.com/java/io/IOException.html) in [javax.swing.filechooser](http://docs.google.com/javax/swing/filechooser/package-summary.html) | |
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| Methods in [javax.swing.filechooser](http://docs.google.com/javax/swing/filechooser/package-summary.html) that throw [IOException](http://docs.google.com/java/io/IOException.html) | |
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| abstract  [File](http://docs.google.com/java/io/File.html) | **FileSystemView.**[**createNewFolder**](http://docs.google.com/javax/swing/filechooser/FileSystemView.html#createNewFolder(java.io.File))([File](http://docs.google.com/java/io/File.html) containingDir)            Creates a new folder with a default folder name. |

| Uses of [IOException](http://docs.google.com/java/io/IOException.html) in [javax.swing.plaf.synth](http://docs.google.com/javax/swing/plaf/synth/package-summary.html) | |
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| Methods in [javax.swing.plaf.synth](http://docs.google.com/javax/swing/plaf/synth/package-summary.html) that throw [IOException](http://docs.google.com/java/io/IOException.html) | |
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| void | **SynthLookAndFeel.**[**load**](http://docs.google.com/javax/swing/plaf/synth/SynthLookAndFeel.html#load(java.net.URL))([URL](http://docs.google.com/java/net/URL.html) url)            Loads the set of SynthStyles that will be used by this SynthLookAndFeel. |

| Uses of [IOException](http://docs.google.com/java/io/IOException.html) in [javax.swing.text](http://docs.google.com/javax/swing/text/package-summary.html) | |
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| Subclasses of [IOException](http://docs.google.com/java/io/IOException.html) in [javax.swing.text](http://docs.google.com/javax/swing/text/package-summary.html) | |
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| class | [**ChangedCharSetException**](http://docs.google.com/javax/swing/text/ChangedCharSetException.html)            ChangedCharSetException as the name indicates is an exception thrown when the charset is changed. |

| Methods in [javax.swing.text](http://docs.google.com/javax/swing/text/package-summary.html) that throw [IOException](http://docs.google.com/java/io/IOException.html) | |
| --- | --- |
| protected  void | **AbstractWriter.**[**indent**](http://docs.google.com/javax/swing/text/AbstractWriter.html#indent())()            Does indentation. |
| protected  void | **AbstractWriter.**[**output**](http://docs.google.com/javax/swing/text/AbstractWriter.html#output(char%5B%5D,%20int,%20int))(char[] content, int start, int length)            The last stop in writing out content. |
| void | **DefaultEditorKit.**[**read**](http://docs.google.com/javax/swing/text/DefaultEditorKit.html#read(java.io.InputStream,%20javax.swing.text.Document,%20int))([InputStream](http://docs.google.com/java/io/InputStream.html) in, [Document](http://docs.google.com/javax/swing/text/Document.html) doc, int pos)            Inserts content from the given stream which is expected to be in a format appropriate for this kind of content handler. |
| abstract  void | **EditorKit.**[**read**](http://docs.google.com/javax/swing/text/EditorKit.html#read(java.io.InputStream,%20javax.swing.text.Document,%20int))([InputStream](http://docs.google.com/java/io/InputStream.html) in, [Document](http://docs.google.com/javax/swing/text/Document.html) doc, int pos)            Inserts content from the given stream which is expected to be in a format appropriate for this kind of content handler. |
| void | **DefaultEditorKit.**[**read**](http://docs.google.com/javax/swing/text/DefaultEditorKit.html#read(java.io.Reader,%20javax.swing.text.Document,%20int))([Reader](http://docs.google.com/java/io/Reader.html) in, [Document](http://docs.google.com/javax/swing/text/Document.html) doc, int pos)            Inserts content from the given stream, which will be treated as plain text. |
| abstract  void | **EditorKit.**[**read**](http://docs.google.com/javax/swing/text/EditorKit.html#read(java.io.Reader,%20javax.swing.text.Document,%20int))([Reader](http://docs.google.com/java/io/Reader.html) in, [Document](http://docs.google.com/javax/swing/text/Document.html) doc, int pos)            Inserts content from the given stream which is expected to be in a format appropriate for this kind of content handler. |
| void | **JTextComponent.**[**read**](http://docs.google.com/javax/swing/text/JTextComponent.html#read(java.io.Reader,%20java.lang.Object))([Reader](http://docs.google.com/java/io/Reader.html) in, [Object](http://docs.google.com/java/lang/Object.html) desc)            Initializes from a stream. |
| void | **StyleContext.**[**readAttributes**](http://docs.google.com/javax/swing/text/StyleContext.html#readAttributes(java.io.ObjectInputStream,%20javax.swing.text.MutableAttributeSet))([ObjectInputStream](http://docs.google.com/java/io/ObjectInputStream.html) in, [MutableAttributeSet](http://docs.google.com/javax/swing/text/MutableAttributeSet.html) a)            Context-specific handling of reading in attributes |
| static void | **StyleContext.**[**readAttributeSet**](http://docs.google.com/javax/swing/text/StyleContext.html#readAttributeSet(java.io.ObjectInputStream,%20javax.swing.text.MutableAttributeSet))([ObjectInputStream](http://docs.google.com/java/io/ObjectInputStream.html) in, [MutableAttributeSet](http://docs.google.com/javax/swing/text/MutableAttributeSet.html) a)            Reads a set of attributes from the given object input stream that have been previously written out with writeAttributeSet. |
| protected  void | **AbstractWriter.**[**text**](http://docs.google.com/javax/swing/text/AbstractWriter.html#text(javax.swing.text.Element))([Element](http://docs.google.com/javax/swing/text/Element.html) elem)            Writes out text. |
| protected abstract  void | **AbstractWriter.**[**write**](http://docs.google.com/javax/swing/text/AbstractWriter.html#write())()            This abstract method needs to be implemented by subclasses. |
| protected  void | **AbstractWriter.**[**write**](http://docs.google.com/javax/swing/text/AbstractWriter.html#write(char))(char ch)            Writes out a character. |
| protected  void | **AbstractWriter.**[**write**](http://docs.google.com/javax/swing/text/AbstractWriter.html#write(char%5B%5D,%20int,%20int))(char[] chars, int startIndex, int length)            All write methods call into this one. |
| void | **DefaultEditorKit.**[**write**](http://docs.google.com/javax/swing/text/DefaultEditorKit.html#write(java.io.OutputStream,%20javax.swing.text.Document,%20int,%20int))([OutputStream](http://docs.google.com/java/io/OutputStream.html) out, [Document](http://docs.google.com/javax/swing/text/Document.html) doc, int pos, int len)            Writes content from a document to the given stream in a format appropriate for this kind of content handler. |
| abstract  void | **EditorKit.**[**write**](http://docs.google.com/javax/swing/text/EditorKit.html#write(java.io.OutputStream,%20javax.swing.text.Document,%20int,%20int))([OutputStream](http://docs.google.com/java/io/OutputStream.html) out, [Document](http://docs.google.com/javax/swing/text/Document.html) doc, int pos, int len)            Writes content from a document to the given stream in a format appropriate for this kind of content handler. |
| protected  void | **AbstractWriter.**[**write**](http://docs.google.com/javax/swing/text/AbstractWriter.html#write(java.lang.String))([String](http://docs.google.com/java/lang/String.html) content)            Writes out a string. |
| void | **JTextComponent.**[**write**](http://docs.google.com/javax/swing/text/JTextComponent.html#write(java.io.Writer))([Writer](http://docs.google.com/java/io/Writer.html) out)            Stores the contents of the model into the given stream. |
| void | **DefaultEditorKit.**[**write**](http://docs.google.com/javax/swing/text/DefaultEditorKit.html#write(java.io.Writer,%20javax.swing.text.Document,%20int,%20int))([Writer](http://docs.google.com/java/io/Writer.html) out, [Document](http://docs.google.com/javax/swing/text/Document.html) doc, int pos, int len)            Writes content from a document to the given stream as plain text. |
| abstract  void | **EditorKit.**[**write**](http://docs.google.com/javax/swing/text/EditorKit.html#write(java.io.Writer,%20javax.swing.text.Document,%20int,%20int))([Writer](http://docs.google.com/java/io/Writer.html) out, [Document](http://docs.google.com/javax/swing/text/Document.html) doc, int pos, int len)            Writes content from a document to the given stream in a format appropriate for this kind of content handler. |
| protected  void | **AbstractWriter.**[**writeAttributes**](http://docs.google.com/javax/swing/text/AbstractWriter.html#writeAttributes(javax.swing.text.AttributeSet))([AttributeSet](http://docs.google.com/javax/swing/text/AttributeSet.html) attr)            Writes out the set of attributes as " =" pairs. |
| void | **StyleContext.**[**writeAttributes**](http://docs.google.com/javax/swing/text/StyleContext.html#writeAttributes(java.io.ObjectOutputStream,%20javax.swing.text.AttributeSet))([ObjectOutputStream](http://docs.google.com/java/io/ObjectOutputStream.html) out, [AttributeSet](http://docs.google.com/javax/swing/text/AttributeSet.html) a)            Context-specific handling of writing out attributes |
| static void | **StyleContext.**[**writeAttributeSet**](http://docs.google.com/javax/swing/text/StyleContext.html#writeAttributeSet(java.io.ObjectOutputStream,%20javax.swing.text.AttributeSet))([ObjectOutputStream](http://docs.google.com/java/io/ObjectOutputStream.html) out, [AttributeSet](http://docs.google.com/javax/swing/text/AttributeSet.html) a)            Writes a set of attributes to the given object stream for the purpose of serialization. |
| protected  void | **AbstractWriter.**[**writeLineSeparator**](http://docs.google.com/javax/swing/text/AbstractWriter.html#writeLineSeparator())()            Writes the line separator. |

| Uses of [IOException](http://docs.google.com/java/io/IOException.html) in [javax.swing.text.html](http://docs.google.com/javax/swing/text/html/package-summary.html) | |
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| Methods in [javax.swing.text.html](http://docs.google.com/javax/swing/text/html/package-summary.html) that throw [IOException](http://docs.google.com/java/io/IOException.html) | |
| --- | --- |
| protected  void | **HTMLWriter.**[**closeOutUnwantedEmbeddedTags**](http://docs.google.com/javax/swing/text/html/HTMLWriter.html#closeOutUnwantedEmbeddedTags(javax.swing.text.AttributeSet))([AttributeSet](http://docs.google.com/javax/swing/text/AttributeSet.html) attr)            Searches the attribute set and for each tag that is stored in the tag vector. |
| protected  void | **HTMLWriter.**[**comment**](http://docs.google.com/javax/swing/text/html/HTMLWriter.html#comment(javax.swing.text.Element))([Element](http://docs.google.com/javax/swing/text/Element.html) elem)            Writes out comments. |
| protected  void | **HTMLWriter.**[**emptyTag**](http://docs.google.com/javax/swing/text/html/HTMLWriter.html#emptyTag(javax.swing.text.Element))([Element](http://docs.google.com/javax/swing/text/Element.html) elem)            Writes out all empty elements (all tags that have no corresponding end tag). |
| protected  void | **MinimalHTMLWriter.**[**endFontTag**](http://docs.google.com/javax/swing/text/html/MinimalHTMLWriter.html#endFontTag())()            This is no longer used, instead <span> will be written out. |
| protected  void | **HTMLWriter.**[**endTag**](http://docs.google.com/javax/swing/text/html/HTMLWriter.html#endTag(javax.swing.text.Element))([Element](http://docs.google.com/javax/swing/text/Element.html) elem)            Writes out an end tag for the element. |
| void | **HTMLDocument.**[**insertAfterEnd**](http://docs.google.com/javax/swing/text/html/HTMLDocument.html#insertAfterEnd(javax.swing.text.Element,%20java.lang.String))([Element](http://docs.google.com/javax/swing/text/Element.html) elem, [String](http://docs.google.com/java/lang/String.html) htmlText)            Inserts the HTML specified as a string after the the end of the given element. |
| void | **HTMLDocument.**[**insertAfterStart**](http://docs.google.com/javax/swing/text/html/HTMLDocument.html#insertAfterStart(javax.swing.text.Element,%20java.lang.String))([Element](http://docs.google.com/javax/swing/text/Element.html) elem, [String](http://docs.google.com/java/lang/String.html) htmlText)            Inserts the HTML specified as a string at the start of the element. |
| void | **HTMLDocument.**[**insertBeforeEnd**](http://docs.google.com/javax/swing/text/html/HTMLDocument.html#insertBeforeEnd(javax.swing.text.Element,%20java.lang.String))([Element](http://docs.google.com/javax/swing/text/Element.html) elem, [String](http://docs.google.com/java/lang/String.html) htmlText)            Inserts the HTML specified as a string at the end of the element. |
| void | **HTMLDocument.**[**insertBeforeStart**](http://docs.google.com/javax/swing/text/html/HTMLDocument.html#insertBeforeStart(javax.swing.text.Element,%20java.lang.String))([Element](http://docs.google.com/javax/swing/text/Element.html) elem, [String](http://docs.google.com/java/lang/String.html) htmlText)            Inserts the HTML specified as a string before the start of the given element. |
| void | **HTMLEditorKit.**[**insertHTML**](http://docs.google.com/javax/swing/text/html/HTMLEditorKit.html#insertHTML(javax.swing.text.html.HTMLDocument,%20int,%20java.lang.String,%20int,%20int,%20javax.swing.text.html.HTML.Tag))([HTMLDocument](http://docs.google.com/javax/swing/text/html/HTMLDocument.html) doc, int offset, [String](http://docs.google.com/java/lang/String.html) html, int popDepth, int pushDepth, [HTML.Tag](http://docs.google.com/javax/swing/text/html/HTML.Tag.html) insertTag)            Inserts HTML into an existing document. |
| void | **StyleSheet.**[**loadRules**](http://docs.google.com/javax/swing/text/html/StyleSheet.html#loadRules(java.io.Reader,%20java.net.URL))([Reader](http://docs.google.com/java/io/Reader.html) in, [URL](http://docs.google.com/java/net/URL.html) ref)            Loads a set of rules that have been specified in terms of CSS1 grammar. |
| protected  void | **HTMLWriter.**[**output**](http://docs.google.com/javax/swing/text/html/HTMLWriter.html#output(char%5B%5D,%20int,%20int))(char[] chars, int start, int length)            This method is overriden to map any character entities, such as < to <. |
| abstract  void | **HTMLEditorKit.Parser.**[**parse**](http://docs.google.com/javax/swing/text/html/HTMLEditorKit.Parser.html#parse(java.io.Reader,%20javax.swing.text.html.HTMLEditorKit.ParserCallback,%20boolean))([Reader](http://docs.google.com/java/io/Reader.html) r, [HTMLEditorKit.ParserCallback](http://docs.google.com/javax/swing/text/html/HTMLEditorKit.ParserCallback.html) cb, boolean ignoreCharSet)            Parse the given stream and drive the given callback with the results of the parse. |
| void | **HTMLEditorKit.**[**read**](http://docs.google.com/javax/swing/text/html/HTMLEditorKit.html#read(java.io.Reader,%20javax.swing.text.Document,%20int))([Reader](http://docs.google.com/java/io/Reader.html) in, [Document](http://docs.google.com/javax/swing/text/Document.html) doc, int pos)            Inserts content from the given stream. |
| protected  void | **HTMLWriter.**[**selectContent**](http://docs.google.com/javax/swing/text/html/HTMLWriter.html#selectContent(javax.swing.text.AttributeSet))([AttributeSet](http://docs.google.com/javax/swing/text/AttributeSet.html) attr)            Writes out the content of the SELECT form element. |
| void | **HTMLDocument.**[**setInnerHTML**](http://docs.google.com/javax/swing/text/html/HTMLDocument.html#setInnerHTML(javax.swing.text.Element,%20java.lang.String))([Element](http://docs.google.com/javax/swing/text/Element.html) elem, [String](http://docs.google.com/java/lang/String.html) htmlText)            Replaces the children of the given element with the contents specified as an HTML string. |
| void | **HTMLDocument.**[**setOuterHTML**](http://docs.google.com/javax/swing/text/html/HTMLDocument.html#setOuterHTML(javax.swing.text.Element,%20java.lang.String))([Element](http://docs.google.com/javax/swing/text/Element.html) elem, [String](http://docs.google.com/java/lang/String.html) htmlText)            Replaces the given element in the parent with the contents specified as an HTML string. |
| protected  void | **MinimalHTMLWriter.**[**startFontTag**](http://docs.google.com/javax/swing/text/html/MinimalHTMLWriter.html#startFontTag(java.lang.String))([String](http://docs.google.com/java/lang/String.html) style)            This is no longer used, instead <span> will be written out. |
| protected  void | **HTMLWriter.**[**startTag**](http://docs.google.com/javax/swing/text/html/HTMLWriter.html#startTag(javax.swing.text.Element))([Element](http://docs.google.com/javax/swing/text/Element.html) elem)            Writes out a start tag for the element. |
| protected  void | **HTMLWriter.**[**text**](http://docs.google.com/javax/swing/text/html/HTMLWriter.html#text(javax.swing.text.Element))([Element](http://docs.google.com/javax/swing/text/Element.html) elem)            Writes out text. |
| protected  void | **MinimalHTMLWriter.**[**text**](http://docs.google.com/javax/swing/text/html/MinimalHTMLWriter.html#text(javax.swing.text.Element))([Element](http://docs.google.com/javax/swing/text/Element.html) elem)            Writes out text. |
| protected  void | **HTMLWriter.**[**textAreaContent**](http://docs.google.com/javax/swing/text/html/HTMLWriter.html#textAreaContent(javax.swing.text.AttributeSet))([AttributeSet](http://docs.google.com/javax/swing/text/AttributeSet.html) attr)            Writes out text that is contained in a TEXTAREA form element. |
| void | **HTMLWriter.**[**write**](http://docs.google.com/javax/swing/text/html/HTMLWriter.html#write())()            Iterates over the Element tree and controls the writing out of all the tags and its attributes. |
| void | **MinimalHTMLWriter.**[**write**](http://docs.google.com/javax/swing/text/html/MinimalHTMLWriter.html#write())()            Generates HTML output from a StyledDocument. |
| void | **HTMLEditorKit.**[**write**](http://docs.google.com/javax/swing/text/html/HTMLEditorKit.html#write(java.io.Writer,%20javax.swing.text.Document,%20int,%20int))([Writer](http://docs.google.com/java/io/Writer.html) out, [Document](http://docs.google.com/javax/swing/text/Document.html) doc, int pos, int len)            Write content from a document to the given stream in a format appropriate for this kind of content handler. |
| protected  void | **HTMLWriter.**[**writeAttributes**](http://docs.google.com/javax/swing/text/html/HTMLWriter.html#writeAttributes(javax.swing.text.AttributeSet))([AttributeSet](http://docs.google.com/javax/swing/text/AttributeSet.html) attr)            Writes out the attribute set. |
| protected  void | **MinimalHTMLWriter.**[**writeAttributes**](http://docs.google.com/javax/swing/text/html/MinimalHTMLWriter.html#writeAttributes(javax.swing.text.AttributeSet))([AttributeSet](http://docs.google.com/javax/swing/text/AttributeSet.html) attr)            Writes out all the attributes for the following types: StyleConstants.ParagraphConstants, StyleConstants.CharacterConstants, StyleConstants.FontConstants, StyleConstants.ColorConstants. |
| protected  void | **MinimalHTMLWriter.**[**writeBody**](http://docs.google.com/javax/swing/text/html/MinimalHTMLWriter.html#writeBody())()            Iterates over the elements in the document and processes elements based on whether they are branch elements or leaf elements. |
| protected  void | **MinimalHTMLWriter.**[**writeComponent**](http://docs.google.com/javax/swing/text/html/MinimalHTMLWriter.html#writeComponent(javax.swing.text.Element))([Element](http://docs.google.com/javax/swing/text/Element.html) elem)            Responsible for handling Component Elements; deliberately unimplemented. |
| protected  void | **MinimalHTMLWriter.**[**writeContent**](http://docs.google.com/javax/swing/text/html/MinimalHTMLWriter.html#writeContent(javax.swing.text.Element,%20boolean))([Element](http://docs.google.com/javax/swing/text/Element.html) elem, boolean needsIndenting)            Writes out the attribute set in an HTML-compliant manner. |
| protected  void | **HTMLWriter.**[**writeEmbeddedTags**](http://docs.google.com/javax/swing/text/html/HTMLWriter.html#writeEmbeddedTags(javax.swing.text.AttributeSet))([AttributeSet](http://docs.google.com/javax/swing/text/AttributeSet.html) attr)            Searches for embedded tags in the AttributeSet and writes them out. |
| protected  void | **MinimalHTMLWriter.**[**writeEndParagraph**](http://docs.google.com/javax/swing/text/html/MinimalHTMLWriter.html#writeEndParagraph())()            Emits an end tag for a <p> tag. |
| protected  void | **MinimalHTMLWriter.**[**writeEndTag**](http://docs.google.com/javax/swing/text/html/MinimalHTMLWriter.html#writeEndTag(java.lang.String))([String](http://docs.google.com/java/lang/String.html) endTag)            Writes out an end tag appropriately indented. |
| protected  void | **MinimalHTMLWriter.**[**writeHeader**](http://docs.google.com/javax/swing/text/html/MinimalHTMLWriter.html#writeHeader())()            Writes out the <head> and <style> tags, and then invokes writeStyles() to write out all the named styles as the content of the <style> tag. |
| protected  void | **MinimalHTMLWriter.**[**writeHTMLTags**](http://docs.google.com/javax/swing/text/html/MinimalHTMLWriter.html#writeHTMLTags(javax.swing.text.AttributeSet))([AttributeSet](http://docs.google.com/javax/swing/text/AttributeSet.html) attr)            Generates bold <b>, italic <i>, and <u> tags for the text based on its attribute settings. |
| protected  void | **MinimalHTMLWriter.**[**writeImage**](http://docs.google.com/javax/swing/text/html/MinimalHTMLWriter.html#writeImage(javax.swing.text.Element))([Element](http://docs.google.com/javax/swing/text/Element.html) elem)            Responsible for handling Icon Elements; deliberately unimplemented. |
| protected  void | **MinimalHTMLWriter.**[**writeLeaf**](http://docs.google.com/javax/swing/text/html/MinimalHTMLWriter.html#writeLeaf(javax.swing.text.Element))([Element](http://docs.google.com/javax/swing/text/Element.html) elem)            Responsible for writing out other non-text leaf elements. |
| protected  void | **HTMLWriter.**[**writeLineSeparator**](http://docs.google.com/javax/swing/text/html/HTMLWriter.html#writeLineSeparator())()            Writes the line separator. |
| protected  void | **MinimalHTMLWriter.**[**writeNonHTMLAttributes**](http://docs.google.com/javax/swing/text/html/MinimalHTMLWriter.html#writeNonHTMLAttributes(javax.swing.text.AttributeSet))([AttributeSet](http://docs.google.com/javax/swing/text/AttributeSet.html) attr)            Writes out the remaining character-level attributes (attributes other than bold, italic, and underline) in an HTML-compliant way. |
| protected  void | **HTMLWriter.**[**writeOption**](http://docs.google.com/javax/swing/text/html/HTMLWriter.html#writeOption(javax.swing.text.html.Option))([Option](http://docs.google.com/javax/swing/text/html/Option.html) option)            Writes out the content of the Option form element. |
| protected  void | **MinimalHTMLWriter.**[**writeStartParagraph**](http://docs.google.com/javax/swing/text/html/MinimalHTMLWriter.html#writeStartParagraph(javax.swing.text.Element))([Element](http://docs.google.com/javax/swing/text/Element.html) elem)            Emits the start tag for a paragraph. |
| protected  void | **MinimalHTMLWriter.**[**writeStartTag**](http://docs.google.com/javax/swing/text/html/MinimalHTMLWriter.html#writeStartTag(java.lang.String))([String](http://docs.google.com/java/lang/String.html) tag)            Writes out a start tag appropriately indented. |
| protected  void | **MinimalHTMLWriter.**[**writeStyles**](http://docs.google.com/javax/swing/text/html/MinimalHTMLWriter.html#writeStyles())()            Writes out all the named styles as the content of the <style> tag. |

| Uses of [IOException](http://docs.google.com/java/io/IOException.html) in [javax.swing.text.html.parser](http://docs.google.com/javax/swing/text/html/parser/package-summary.html) | |
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| Methods in [javax.swing.text.html.parser](http://docs.google.com/javax/swing/text/html/parser/package-summary.html) that throw [IOException](http://docs.google.com/java/io/IOException.html) | |
| --- | --- |
| static [DTD](http://docs.google.com/javax/swing/text/html/parser/DTD.html) | **DTD.**[**getDTD**](http://docs.google.com/javax/swing/text/html/parser/DTD.html#getDTD(java.lang.String))([String](http://docs.google.com/java/lang/String.html) name)            Returns a DTD with the specified name. |
| void | **Parser.**[**parse**](http://docs.google.com/javax/swing/text/html/parser/Parser.html#parse(java.io.Reader))([Reader](http://docs.google.com/java/io/Reader.html) in)            Parse an HTML stream, given a DTD. |
| void | **DocumentParser.**[**parse**](http://docs.google.com/javax/swing/text/html/parser/DocumentParser.html#parse(java.io.Reader,%20javax.swing.text.html.HTMLEditorKit.ParserCallback,%20boolean))([Reader](http://docs.google.com/java/io/Reader.html) in, [HTMLEditorKit.ParserCallback](http://docs.google.com/javax/swing/text/html/HTMLEditorKit.ParserCallback.html) callback, boolean ignoreCharSet) |
| void | **ParserDelegator.**[**parse**](http://docs.google.com/javax/swing/text/html/parser/ParserDelegator.html#parse(java.io.Reader,%20javax.swing.text.html.HTMLEditorKit.ParserCallback,%20boolean))([Reader](http://docs.google.com/java/io/Reader.html) r, [HTMLEditorKit.ParserCallback](http://docs.google.com/javax/swing/text/html/HTMLEditorKit.ParserCallback.html) cb, boolean ignoreCharSet) |
| [String](http://docs.google.com/java/lang/String.html) | **Parser.**[**parseDTDMarkup**](http://docs.google.com/javax/swing/text/html/parser/Parser.html#parseDTDMarkup())()            Parses th Document Declaration Type markup declaration. |
| protected  boolean | **Parser.**[**parseMarkupDeclarations**](http://docs.google.com/javax/swing/text/html/parser/Parser.html#parseMarkupDeclarations(java.lang.StringBuffer))([StringBuffer](http://docs.google.com/java/lang/StringBuffer.html) strBuff)            Parse markup declarations. |
| void | **DTD.**[**read**](http://docs.google.com/javax/swing/text/html/parser/DTD.html#read(java.io.DataInputStream))([DataInputStream](http://docs.google.com/java/io/DataInputStream.html) in)            Recreates a DTD from an archived format. |

| Uses of [IOException](http://docs.google.com/java/io/IOException.html) in [javax.swing.text.rtf](http://docs.google.com/javax/swing/text/rtf/package-summary.html) | |
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| Methods in [javax.swing.text.rtf](http://docs.google.com/javax/swing/text/rtf/package-summary.html) that throw [IOException](http://docs.google.com/java/io/IOException.html) | |
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| void | **RTFEditorKit.**[**read**](http://docs.google.com/javax/swing/text/rtf/RTFEditorKit.html#read(java.io.InputStream,%20javax.swing.text.Document,%20int))([InputStream](http://docs.google.com/java/io/InputStream.html) in, [Document](http://docs.google.com/javax/swing/text/Document.html) doc, int pos)            Insert content from the given stream which is expected to be in a format appropriate for this kind of content handler. |
| void | **RTFEditorKit.**[**read**](http://docs.google.com/javax/swing/text/rtf/RTFEditorKit.html#read(java.io.Reader,%20javax.swing.text.Document,%20int))([Reader](http://docs.google.com/java/io/Reader.html) in, [Document](http://docs.google.com/javax/swing/text/Document.html) doc, int pos)            Insert content from the given stream, which will be treated as plain text. |
| void | **RTFEditorKit.**[**write**](http://docs.google.com/javax/swing/text/rtf/RTFEditorKit.html#write(java.io.OutputStream,%20javax.swing.text.Document,%20int,%20int))([OutputStream](http://docs.google.com/java/io/OutputStream.html) out, [Document](http://docs.google.com/javax/swing/text/Document.html) doc, int pos, int len)            Write content from a document to the given stream in a format appropriate for this kind of content handler. |
| void | **RTFEditorKit.**[**write**](http://docs.google.com/javax/swing/text/rtf/RTFEditorKit.html#write(java.io.Writer,%20javax.swing.text.Document,%20int,%20int))([Writer](http://docs.google.com/java/io/Writer.html) out, [Document](http://docs.google.com/javax/swing/text/Document.html) doc, int pos, int len)            Write content from a document to the given stream as plain text. |

| Uses of [IOException](http://docs.google.com/java/io/IOException.html) in [javax.tools](http://docs.google.com/javax/tools/package-summary.html) | |
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| Methods in [javax.tools](http://docs.google.com/javax/tools/package-summary.html) that throw [IOException](http://docs.google.com/java/io/IOException.html) | |
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| void | **ForwardingJavaFileManager.**[**close**](http://docs.google.com/javax/tools/ForwardingJavaFileManager.html#close())() |
| void | **JavaFileManager.**[**close**](http://docs.google.com/javax/tools/JavaFileManager.html#close())()            Releases any resources opened by this file manager directly or indirectly. |
| void | **ForwardingJavaFileManager.**[**flush**](http://docs.google.com/javax/tools/ForwardingJavaFileManager.html#flush())() |
| void | **JavaFileManager.**[**flush**](http://docs.google.com/javax/tools/JavaFileManager.html#flush())()            Flushes any resources opened for output by this file manager directly or indirectly. |
| [CharSequence](http://docs.google.com/java/lang/CharSequence.html) | **SimpleJavaFileObject.**[**getCharContent**](http://docs.google.com/javax/tools/SimpleJavaFileObject.html#getCharContent(boolean))(boolean ignoreEncodingErrors)            This implementation always throws [UnsupportedOperationException](http://docs.google.com/java/lang/UnsupportedOperationException.html). |
| [CharSequence](http://docs.google.com/java/lang/CharSequence.html) | **ForwardingFileObject.**[**getCharContent**](http://docs.google.com/javax/tools/ForwardingFileObject.html#getCharContent(boolean))(boolean ignoreEncodingErrors) |
| [CharSequence](http://docs.google.com/java/lang/CharSequence.html) | **FileObject.**[**getCharContent**](http://docs.google.com/javax/tools/FileObject.html#getCharContent(boolean))(boolean ignoreEncodingErrors)            Gets the character content of this file object, if available. |
| [FileObject](http://docs.google.com/javax/tools/FileObject.html) | **ForwardingJavaFileManager.**[**getFileForInput**](http://docs.google.com/javax/tools/ForwardingJavaFileManager.html#getFileForInput(javax.tools.JavaFileManager.Location,%20java.lang.String,%20java.lang.String))([JavaFileManager.Location](http://docs.google.com/javax/tools/JavaFileManager.Location.html) location, [String](http://docs.google.com/java/lang/String.html) packageName, [String](http://docs.google.com/java/lang/String.html) relativeName) |
| [FileObject](http://docs.google.com/javax/tools/FileObject.html) | **JavaFileManager.**[**getFileForInput**](http://docs.google.com/javax/tools/JavaFileManager.html#getFileForInput(javax.tools.JavaFileManager.Location,%20java.lang.String,%20java.lang.String))([JavaFileManager.Location](http://docs.google.com/javax/tools/JavaFileManager.Location.html) location, [String](http://docs.google.com/java/lang/String.html) packageName, [String](http://docs.google.com/java/lang/String.html) relativeName)            Gets a [file object](http://docs.google.com/javax/tools/FileObject.html) for input representing the specified [relative name](http://docs.google.com/javax/tools/JavaFileManager.html#relative_name) in the specified package in the given location. |
| [FileObject](http://docs.google.com/javax/tools/FileObject.html) | **ForwardingJavaFileManager.**[**getFileForOutput**](http://docs.google.com/javax/tools/ForwardingJavaFileManager.html#getFileForOutput(javax.tools.JavaFileManager.Location,%20java.lang.String,%20java.lang.String,%20javax.tools.FileObject))([JavaFileManager.Location](http://docs.google.com/javax/tools/JavaFileManager.Location.html) location, [String](http://docs.google.com/java/lang/String.html) packageName, [String](http://docs.google.com/java/lang/String.html) relativeName, [FileObject](http://docs.google.com/javax/tools/FileObject.html) sibling) |
| [FileObject](http://docs.google.com/javax/tools/FileObject.html) | **JavaFileManager.**[**getFileForOutput**](http://docs.google.com/javax/tools/JavaFileManager.html#getFileForOutput(javax.tools.JavaFileManager.Location,%20java.lang.String,%20java.lang.String,%20javax.tools.FileObject))([JavaFileManager.Location](http://docs.google.com/javax/tools/JavaFileManager.Location.html) location, [String](http://docs.google.com/java/lang/String.html) packageName, [String](http://docs.google.com/java/lang/String.html) relativeName, [FileObject](http://docs.google.com/javax/tools/FileObject.html) sibling)            Gets a [file object](http://docs.google.com/javax/tools/FileObject.html) for output representing the specified [relative name](http://docs.google.com/javax/tools/JavaFileManager.html#relative_name) in the specified package in the given location. |
| [JavaFileObject](http://docs.google.com/javax/tools/JavaFileObject.html) | **ForwardingJavaFileManager.**[**getJavaFileForInput**](http://docs.google.com/javax/tools/ForwardingJavaFileManager.html#getJavaFileForInput(javax.tools.JavaFileManager.Location,%20java.lang.String,%20javax.tools.JavaFileObject.Kind))([JavaFileManager.Location](http://docs.google.com/javax/tools/JavaFileManager.Location.html) location, [String](http://docs.google.com/java/lang/String.html) className, [JavaFileObject.Kind](http://docs.google.com/javax/tools/JavaFileObject.Kind.html) kind) |
| [JavaFileObject](http://docs.google.com/javax/tools/JavaFileObject.html) | **JavaFileManager.**[**getJavaFileForInput**](http://docs.google.com/javax/tools/JavaFileManager.html#getJavaFileForInput(javax.tools.JavaFileManager.Location,%20java.lang.String,%20javax.tools.JavaFileObject.Kind))([JavaFileManager.Location](http://docs.google.com/javax/tools/JavaFileManager.Location.html) location, [String](http://docs.google.com/java/lang/String.html) className, [JavaFileObject.Kind](http://docs.google.com/javax/tools/JavaFileObject.Kind.html) kind)            Gets a [file object](http://docs.google.com/javax/tools/JavaFileObject.html) for input representing the specified class of the specified kind in the given location. |
| [JavaFileObject](http://docs.google.com/javax/tools/JavaFileObject.html) | **ForwardingJavaFileManager.**[**getJavaFileForOutput**](http://docs.google.com/javax/tools/ForwardingJavaFileManager.html#getJavaFileForOutput(javax.tools.JavaFileManager.Location,%20java.lang.String,%20javax.tools.JavaFileObject.Kind,%20javax.tools.FileObject))([JavaFileManager.Location](http://docs.google.com/javax/tools/JavaFileManager.Location.html) location, [String](http://docs.google.com/java/lang/String.html) className, [JavaFileObject.Kind](http://docs.google.com/javax/tools/JavaFileObject.Kind.html) kind, [FileObject](http://docs.google.com/javax/tools/FileObject.html) sibling) |
| [JavaFileObject](http://docs.google.com/javax/tools/JavaFileObject.html) | **JavaFileManager.**[**getJavaFileForOutput**](http://docs.google.com/javax/tools/JavaFileManager.html#getJavaFileForOutput(javax.tools.JavaFileManager.Location,%20java.lang.String,%20javax.tools.JavaFileObject.Kind,%20javax.tools.FileObject))([JavaFileManager.Location](http://docs.google.com/javax/tools/JavaFileManager.Location.html) location, [String](http://docs.google.com/java/lang/String.html) className, [JavaFileObject.Kind](http://docs.google.com/javax/tools/JavaFileObject.Kind.html) kind, [FileObject](http://docs.google.com/javax/tools/FileObject.html) sibling)            Gets a [file object](http://docs.google.com/javax/tools/JavaFileObject.html) for output representing the specified class of the specified kind in the given location. |
| [Iterable](http://docs.google.com/java/lang/Iterable.html)<[JavaFileObject](http://docs.google.com/javax/tools/JavaFileObject.html)> | **ForwardingJavaFileManager.**[**list**](http://docs.google.com/javax/tools/ForwardingJavaFileManager.html#list(javax.tools.JavaFileManager.Location,%20java.lang.String,%20java.util.Set,%20boolean))([JavaFileManager.Location](http://docs.google.com/javax/tools/JavaFileManager.Location.html) location, [String](http://docs.google.com/java/lang/String.html) packageName, [Set](http://docs.google.com/java/util/Set.html)<[JavaFileObject.Kind](http://docs.google.com/javax/tools/JavaFileObject.Kind.html)> kinds, boolean recurse) |
| [Iterable](http://docs.google.com/java/lang/Iterable.html)<[JavaFileObject](http://docs.google.com/javax/tools/JavaFileObject.html)> | **JavaFileManager.**[**list**](http://docs.google.com/javax/tools/JavaFileManager.html#list(javax.tools.JavaFileManager.Location,%20java.lang.String,%20java.util.Set,%20boolean))([JavaFileManager.Location](http://docs.google.com/javax/tools/JavaFileManager.Location.html) location, [String](http://docs.google.com/java/lang/String.html) packageName, [Set](http://docs.google.com/java/util/Set.html)<[JavaFileObject.Kind](http://docs.google.com/javax/tools/JavaFileObject.Kind.html)> kinds, boolean recurse)            Lists all file objects matching the given criteria in the given location. |
| [InputStream](http://docs.google.com/java/io/InputStream.html) | **SimpleJavaFileObject.**[**openInputStream**](http://docs.google.com/javax/tools/SimpleJavaFileObject.html#openInputStream())()            This implementation always throws [UnsupportedOperationException](http://docs.google.com/java/lang/UnsupportedOperationException.html). |
| [InputStream](http://docs.google.com/java/io/InputStream.html) | **ForwardingFileObject.**[**openInputStream**](http://docs.google.com/javax/tools/ForwardingFileObject.html#openInputStream())() |
| [InputStream](http://docs.google.com/java/io/InputStream.html) | **FileObject.**[**openInputStream**](http://docs.google.com/javax/tools/FileObject.html#openInputStream())()            Gets an InputStream for this file object. |
| [OutputStream](http://docs.google.com/java/io/OutputStream.html) | **SimpleJavaFileObject.**[**openOutputStream**](http://docs.google.com/javax/tools/SimpleJavaFileObject.html#openOutputStream())()            This implementation always throws [UnsupportedOperationException](http://docs.google.com/java/lang/UnsupportedOperationException.html). |
| [OutputStream](http://docs.google.com/java/io/OutputStream.html) | **ForwardingFileObject.**[**openOutputStream**](http://docs.google.com/javax/tools/ForwardingFileObject.html#openOutputStream())() |
| [OutputStream](http://docs.google.com/java/io/OutputStream.html) | **FileObject.**[**openOutputStream**](http://docs.google.com/javax/tools/FileObject.html#openOutputStream())()            Gets an OutputStream for this file object. |
| [Reader](http://docs.google.com/java/io/Reader.html) | **SimpleJavaFileObject.**[**openReader**](http://docs.google.com/javax/tools/SimpleJavaFileObject.html#openReader(boolean))(boolean ignoreEncodingErrors)            Wraps the result of [SimpleJavaFileObject.getCharContent(boolean)](http://docs.google.com/javax/tools/SimpleJavaFileObject.html#getCharContent(boolean)) in a Reader. |
| [Reader](http://docs.google.com/java/io/Reader.html) | **ForwardingFileObject.**[**openReader**](http://docs.google.com/javax/tools/ForwardingFileObject.html#openReader(boolean))(boolean ignoreEncodingErrors) |
| [Reader](http://docs.google.com/java/io/Reader.html) | **FileObject.**[**openReader**](http://docs.google.com/javax/tools/FileObject.html#openReader(boolean))(boolean ignoreEncodingErrors)            Gets a reader for this object. |
| [Writer](http://docs.google.com/java/io/Writer.html) | **SimpleJavaFileObject.**[**openWriter**](http://docs.google.com/javax/tools/SimpleJavaFileObject.html#openWriter())()            Wraps the result of openOutputStream in a Writer. |
| [Writer](http://docs.google.com/java/io/Writer.html) | **ForwardingFileObject.**[**openWriter**](http://docs.google.com/javax/tools/ForwardingFileObject.html#openWriter())() |
| [Writer](http://docs.google.com/java/io/Writer.html) | **FileObject.**[**openWriter**](http://docs.google.com/javax/tools/FileObject.html#openWriter())()            Gets a Writer for this file object. |
| void | **StandardJavaFileManager.**[**setLocation**](http://docs.google.com/javax/tools/StandardJavaFileManager.html#setLocation(javax.tools.JavaFileManager.Location,%20java.lang.Iterable))([JavaFileManager.Location](http://docs.google.com/javax/tools/JavaFileManager.Location.html) location, [Iterable](http://docs.google.com/java/lang/Iterable.html)<? extends [File](http://docs.google.com/java/io/File.html)> path)            Associates the given path with the given location. |

| Uses of [IOException](http://docs.google.com/java/io/IOException.html) in [javax.transaction](http://docs.google.com/javax/transaction/package-summary.html) | |
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| Subclasses of [IOException](http://docs.google.com/java/io/IOException.html) in [javax.transaction](http://docs.google.com/javax/transaction/package-summary.html) | |
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| class | [**InvalidTransactionException**](http://docs.google.com/javax/transaction/InvalidTransactionException.html)            This exception indicates that the request carried an invalid transaction context. |
| class | [**TransactionRequiredException**](http://docs.google.com/javax/transaction/TransactionRequiredException.html)            This exception indicates that a request carried a null transaction context, but the target object requires an activate transaction. |
| class | [**TransactionRolledbackException**](http://docs.google.com/javax/transaction/TransactionRolledbackException.html)            This exception indicates that the transaction associated with processing of the request has been rolled back, or marked to roll back. |

| Uses of [IOException](http://docs.google.com/java/io/IOException.html) in [javax.xml.bind](http://docs.google.com/javax/xml/bind/package-summary.html) | |
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| Methods in [javax.xml.bind](http://docs.google.com/javax/xml/bind/package-summary.html) that throw [IOException](http://docs.google.com/java/io/IOException.html) | |
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| abstract  [Result](http://docs.google.com/javax/xml/transform/Result.html) | **SchemaOutputResolver.**[**createOutput**](http://docs.google.com/javax/xml/bind/SchemaOutputResolver.html#createOutput(java.lang.String,%20java.lang.String))([String](http://docs.google.com/java/lang/String.html) namespaceUri, [String](http://docs.google.com/java/lang/String.html) suggestedFileName)            Decides where the schema file (of the given namespace URI) will be written, and return it as a [Result](http://docs.google.com/javax/xml/transform/Result.html) object. |
| void | **JAXBContext.**[**generateSchema**](http://docs.google.com/javax/xml/bind/JAXBContext.html#generateSchema(javax.xml.bind.SchemaOutputResolver))([SchemaOutputResolver](http://docs.google.com/javax/xml/bind/SchemaOutputResolver.html) outputResolver)            Generates the schema documents for this context. |

| Uses of [IOException](http://docs.google.com/java/io/IOException.html) in [javax.xml.parsers](http://docs.google.com/javax/xml/parsers/package-summary.html) | |
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| Methods in [javax.xml.parsers](http://docs.google.com/javax/xml/parsers/package-summary.html) that throw [IOException](http://docs.google.com/java/io/IOException.html) | |
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| [Document](http://docs.google.com/org/w3c/dom/Document.html) | **DocumentBuilder.**[**parse**](http://docs.google.com/javax/xml/parsers/DocumentBuilder.html#parse(java.io.File))([File](http://docs.google.com/java/io/File.html) f)            Parse the content of the given file as an XML document and return a new DOM [Document](http://docs.google.com/org/w3c/dom/Document.html) object. |
| void | **SAXParser.**[**parse**](http://docs.google.com/javax/xml/parsers/SAXParser.html#parse(java.io.File,%20org.xml.sax.helpers.DefaultHandler))([File](http://docs.google.com/java/io/File.html) f, [DefaultHandler](http://docs.google.com/org/xml/sax/helpers/DefaultHandler.html) dh)            Parse the content of the file specified as XML using the specified [DefaultHandler](http://docs.google.com/org/xml/sax/helpers/DefaultHandler.html). |
| void | **SAXParser.**[**parse**](http://docs.google.com/javax/xml/parsers/SAXParser.html#parse(java.io.File,%20org.xml.sax.HandlerBase))([File](http://docs.google.com/java/io/File.html) f, [HandlerBase](http://docs.google.com/org/xml/sax/HandlerBase.html) hb)            Parse the content of the file specified as XML using the specified [HandlerBase](http://docs.google.com/org/xml/sax/HandlerBase.html). |
| abstract  [Document](http://docs.google.com/org/w3c/dom/Document.html) | **DocumentBuilder.**[**parse**](http://docs.google.com/javax/xml/parsers/DocumentBuilder.html#parse(org.xml.sax.InputSource))([InputSource](http://docs.google.com/org/xml/sax/InputSource.html) is)            Parse the content of the given input source as an XML document and return a new DOM [Document](http://docs.google.com/org/w3c/dom/Document.html) object. |
| void | **SAXParser.**[**parse**](http://docs.google.com/javax/xml/parsers/SAXParser.html#parse(org.xml.sax.InputSource,%20org.xml.sax.helpers.DefaultHandler))([InputSource](http://docs.google.com/org/xml/sax/InputSource.html) is, [DefaultHandler](http://docs.google.com/org/xml/sax/helpers/DefaultHandler.html) dh)            Parse the content given [InputSource](http://docs.google.com/org/xml/sax/InputSource.html) as XML using the specified [DefaultHandler](http://docs.google.com/org/xml/sax/helpers/DefaultHandler.html). |
| void | **SAXParser.**[**parse**](http://docs.google.com/javax/xml/parsers/SAXParser.html#parse(org.xml.sax.InputSource,%20org.xml.sax.HandlerBase))([InputSource](http://docs.google.com/org/xml/sax/InputSource.html) is, [HandlerBase](http://docs.google.com/org/xml/sax/HandlerBase.html) hb)            Parse the content given [InputSource](http://docs.google.com/org/xml/sax/InputSource.html) as XML using the specified [HandlerBase](http://docs.google.com/org/xml/sax/HandlerBase.html). |
| [Document](http://docs.google.com/org/w3c/dom/Document.html) | **DocumentBuilder.**[**parse**](http://docs.google.com/javax/xml/parsers/DocumentBuilder.html#parse(java.io.InputStream))([InputStream](http://docs.google.com/java/io/InputStream.html) is)            Parse the content of the given InputStream as an XML document and return a new DOM [Document](http://docs.google.com/org/w3c/dom/Document.html) object. |
| void | **SAXParser.**[**parse**](http://docs.google.com/javax/xml/parsers/SAXParser.html#parse(java.io.InputStream,%20org.xml.sax.helpers.DefaultHandler))([InputStream](http://docs.google.com/java/io/InputStream.html) is, [DefaultHandler](http://docs.google.com/org/xml/sax/helpers/DefaultHandler.html) dh)            Parse the content of the given [InputStream](http://docs.google.com/java/io/InputStream.html) instance as XML using the specified [DefaultHandler](http://docs.google.com/org/xml/sax/helpers/DefaultHandler.html). |
| void | **SAXParser.**[**parse**](http://docs.google.com/javax/xml/parsers/SAXParser.html#parse(java.io.InputStream,%20org.xml.sax.helpers.DefaultHandler,%20java.lang.String))([InputStream](http://docs.google.com/java/io/InputStream.html) is, [DefaultHandler](http://docs.google.com/org/xml/sax/helpers/DefaultHandler.html) dh, [String](http://docs.google.com/java/lang/String.html) systemId)            Parse the content of the given [InputStream](http://docs.google.com/java/io/InputStream.html) instance as XML using the specified [DefaultHandler](http://docs.google.com/org/xml/sax/helpers/DefaultHandler.html). |
| void | **SAXParser.**[**parse**](http://docs.google.com/javax/xml/parsers/SAXParser.html#parse(java.io.InputStream,%20org.xml.sax.HandlerBase))([InputStream](http://docs.google.com/java/io/InputStream.html) is, [HandlerBase](http://docs.google.com/org/xml/sax/HandlerBase.html) hb)            Parse the content of the given [InputStream](http://docs.google.com/java/io/InputStream.html) instance as XML using the specified [HandlerBase](http://docs.google.com/org/xml/sax/HandlerBase.html). |
| void | **SAXParser.**[**parse**](http://docs.google.com/javax/xml/parsers/SAXParser.html#parse(java.io.InputStream,%20org.xml.sax.HandlerBase,%20java.lang.String))([InputStream](http://docs.google.com/java/io/InputStream.html) is, [HandlerBase](http://docs.google.com/org/xml/sax/HandlerBase.html) hb, [String](http://docs.google.com/java/lang/String.html) systemId)            Parse the content of the given [InputStream](http://docs.google.com/java/io/InputStream.html) instance as XML using the specified [HandlerBase](http://docs.google.com/org/xml/sax/HandlerBase.html). |
| [Document](http://docs.google.com/org/w3c/dom/Document.html) | **DocumentBuilder.**[**parse**](http://docs.google.com/javax/xml/parsers/DocumentBuilder.html#parse(java.io.InputStream,%20java.lang.String))([InputStream](http://docs.google.com/java/io/InputStream.html) is, [String](http://docs.google.com/java/lang/String.html) systemId)            Parse the content of the given InputStream as an XML document and return a new DOM [Document](http://docs.google.com/org/w3c/dom/Document.html) object. |
| [Document](http://docs.google.com/org/w3c/dom/Document.html) | **DocumentBuilder.**[**parse**](http://docs.google.com/javax/xml/parsers/DocumentBuilder.html#parse(java.lang.String))([String](http://docs.google.com/java/lang/String.html) uri)            Parse the content of the given URI as an XML document and return a new DOM [Document](http://docs.google.com/org/w3c/dom/Document.html) object. |
| void | **SAXParser.**[**parse**](http://docs.google.com/javax/xml/parsers/SAXParser.html#parse(java.lang.String,%20org.xml.sax.helpers.DefaultHandler))([String](http://docs.google.com/java/lang/String.html) uri, [DefaultHandler](http://docs.google.com/org/xml/sax/helpers/DefaultHandler.html) dh)            Parse the content described by the giving Uniform Resource Identifier (URI) as XML using the specified [DefaultHandler](http://docs.google.com/org/xml/sax/helpers/DefaultHandler.html). |
| void | **SAXParser.**[**parse**](http://docs.google.com/javax/xml/parsers/SAXParser.html#parse(java.lang.String,%20org.xml.sax.HandlerBase))([String](http://docs.google.com/java/lang/String.html) uri, [HandlerBase](http://docs.google.com/org/xml/sax/HandlerBase.html) hb)            Parse the content described by the giving Uniform Resource Identifier (URI) as XML using the specified [HandlerBase](http://docs.google.com/org/xml/sax/HandlerBase.html). |

| Uses of [IOException](http://docs.google.com/java/io/IOException.html) in [javax.xml.soap](http://docs.google.com/javax/xml/soap/package-summary.html) | |
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| Methods in [javax.xml.soap](http://docs.google.com/javax/xml/soap/package-summary.html) that throw [IOException](http://docs.google.com/java/io/IOException.html) | |
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| abstract  [SOAPMessage](http://docs.google.com/javax/xml/soap/SOAPMessage.html) | **MessageFactory.**[**createMessage**](http://docs.google.com/javax/xml/soap/MessageFactory.html#createMessage(javax.xml.soap.MimeHeaders,%20java.io.InputStream))([MimeHeaders](http://docs.google.com/javax/xml/soap/MimeHeaders.html) headers, [InputStream](http://docs.google.com/java/io/InputStream.html) in)            Internalizes the contents of the given InputStream object into a new SOAPMessage object and returns the SOAPMessage object. |
| abstract  void | **SOAPMessage.**[**writeTo**](http://docs.google.com/javax/xml/soap/SOAPMessage.html#writeTo(java.io.OutputStream))([OutputStream](http://docs.google.com/java/io/OutputStream.html) out)            Writes this SOAPMessage object to the given output stream. |

| Uses of [IOException](http://docs.google.com/java/io/IOException.html) in [javax.xml.validation](http://docs.google.com/javax/xml/validation/package-summary.html) | |
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| Methods in [javax.xml.validation](http://docs.google.com/javax/xml/validation/package-summary.html) that throw [IOException](http://docs.google.com/java/io/IOException.html) | |
| --- | --- |
| void | **Validator.**[**validate**](http://docs.google.com/javax/xml/validation/Validator.html#validate(javax.xml.transform.Source))([Source](http://docs.google.com/javax/xml/transform/Source.html) source)            Validates the specified input. |
| abstract  void | **Validator.**[**validate**](http://docs.google.com/javax/xml/validation/Validator.html#validate(javax.xml.transform.Source,%20javax.xml.transform.Result))([Source](http://docs.google.com/javax/xml/transform/Source.html) source, [Result](http://docs.google.com/javax/xml/transform/Result.html) result)            Validates the specified input and send the augmented validation result to the specified output. |

| Uses of [IOException](http://docs.google.com/java/io/IOException.html) in [org.omg.CORBA.portable](http://docs.google.com/org/omg/CORBA/portable/package-summary.html) | |
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| Methods in [org.omg.CORBA.portable](http://docs.google.com/org/omg/CORBA/portable/package-summary.html) that throw [IOException](http://docs.google.com/java/io/IOException.html) | |
| --- | --- |
| int | **InputStream.**[**read**](http://docs.google.com/org/omg/CORBA/portable/InputStream.html#read())() |
| void | **OutputStream.**[**write**](http://docs.google.com/org/omg/CORBA/portable/OutputStream.html#write(int))(int b)            Writes an integer (length of arrays) onto this stream. |

| Uses of [IOException](http://docs.google.com/java/io/IOException.html) in [org.xml.sax](http://docs.google.com/org/xml/sax/package-summary.html) | |
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| Methods in [org.xml.sax](http://docs.google.com/org/xml/sax/package-summary.html) that throw [IOException](http://docs.google.com/java/io/IOException.html) | |
| --- | --- |
| void | **XMLReader.**[**parse**](http://docs.google.com/org/xml/sax/XMLReader.html#parse(org.xml.sax.InputSource))([InputSource](http://docs.google.com/org/xml/sax/InputSource.html) input)            Parse an XML document. |
| void | **Parser.**[**parse**](http://docs.google.com/org/xml/sax/Parser.html#parse(org.xml.sax.InputSource))([InputSource](http://docs.google.com/org/xml/sax/InputSource.html) source)  **Deprecated.** Parse an XML document. |
| void | **XMLReader.**[**parse**](http://docs.google.com/org/xml/sax/XMLReader.html#parse(java.lang.String))([String](http://docs.google.com/java/lang/String.html) systemId)            Parse an XML document from a system identifier (URI). |
| void | **Parser.**[**parse**](http://docs.google.com/org/xml/sax/Parser.html#parse(java.lang.String))([String](http://docs.google.com/java/lang/String.html) systemId)  **Deprecated.** Parse an XML document from a system identifier (URI). |
| [InputSource](http://docs.google.com/org/xml/sax/InputSource.html) | **EntityResolver.**[**resolveEntity**](http://docs.google.com/org/xml/sax/EntityResolver.html#resolveEntity(java.lang.String,%20java.lang.String))([String](http://docs.google.com/java/lang/String.html) publicId, [String](http://docs.google.com/java/lang/String.html) systemId)            Allow the application to resolve external entities. |

| Uses of [IOException](http://docs.google.com/java/io/IOException.html) in [org.xml.sax.ext](http://docs.google.com/org/xml/sax/ext/package-summary.html) | |
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| Methods in [org.xml.sax.ext](http://docs.google.com/org/xml/sax/ext/package-summary.html) that throw [IOException](http://docs.google.com/java/io/IOException.html) | |
| --- | --- |
| [InputSource](http://docs.google.com/org/xml/sax/InputSource.html) | **EntityResolver2.**[**getExternalSubset**](http://docs.google.com/org/xml/sax/ext/EntityResolver2.html#getExternalSubset(java.lang.String,%20java.lang.String))([String](http://docs.google.com/java/lang/String.html) name, [String](http://docs.google.com/java/lang/String.html) baseURI)            Allows applications to provide an external subset for documents that don't explicitly define one. |
| [InputSource](http://docs.google.com/org/xml/sax/InputSource.html) | **DefaultHandler2.**[**getExternalSubset**](http://docs.google.com/org/xml/sax/ext/DefaultHandler2.html#getExternalSubset(java.lang.String,%20java.lang.String))([String](http://docs.google.com/java/lang/String.html) name, [String](http://docs.google.com/java/lang/String.html) baseURI)            Tells the parser that if no external subset has been declared in the document text, none should be used. |
| [InputSource](http://docs.google.com/org/xml/sax/InputSource.html) | **DefaultHandler2.**[**resolveEntity**](http://docs.google.com/org/xml/sax/ext/DefaultHandler2.html#resolveEntity(java.lang.String,%20java.lang.String))([String](http://docs.google.com/java/lang/String.html) publicId, [String](http://docs.google.com/java/lang/String.html) systemId)            Invokes [EntityResolver2.resolveEntity()](http://docs.google.com/org/xml/sax/ext/EntityResolver2.html#resolveEntity(java.lang.String,%20java.lang.String,%20java.lang.String,%20java.lang.String)) with null entity name and base URI. |
| [InputSource](http://docs.google.com/org/xml/sax/InputSource.html) | **EntityResolver2.**[**resolveEntity**](http://docs.google.com/org/xml/sax/ext/EntityResolver2.html#resolveEntity(java.lang.String,%20java.lang.String,%20java.lang.String,%20java.lang.String))([String](http://docs.google.com/java/lang/String.html) name, [String](http://docs.google.com/java/lang/String.html) publicId, [String](http://docs.google.com/java/lang/String.html) baseURI, [String](http://docs.google.com/java/lang/String.html) systemId)            Allows applications to map references to external entities into input sources, or tell the parser it should use conventional URI resolution. |
| [InputSource](http://docs.google.com/org/xml/sax/InputSource.html) | **DefaultHandler2.**[**resolveEntity**](http://docs.google.com/org/xml/sax/ext/DefaultHandler2.html#resolveEntity(java.lang.String,%20java.lang.String,%20java.lang.String,%20java.lang.String))([String](http://docs.google.com/java/lang/String.html) name, [String](http://docs.google.com/java/lang/String.html) publicId, [String](http://docs.google.com/java/lang/String.html) baseURI, [String](http://docs.google.com/java/lang/String.html) systemId)            Tells the parser to resolve the systemId against the baseURI and read the entity text from that resulting absolute URI. |

| Uses of [IOException](http://docs.google.com/java/io/IOException.html) in [org.xml.sax.helpers](http://docs.google.com/org/xml/sax/helpers/package-summary.html) | |
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| Methods in [org.xml.sax.helpers](http://docs.google.com/org/xml/sax/helpers/package-summary.html) that throw [IOException](http://docs.google.com/java/io/IOException.html) | |
| --- | --- |
| void | **XMLReaderAdapter.**[**parse**](http://docs.google.com/org/xml/sax/helpers/XMLReaderAdapter.html#parse(org.xml.sax.InputSource))([InputSource](http://docs.google.com/org/xml/sax/InputSource.html) input)            Parse the document. |
| void | **ParserAdapter.**[**parse**](http://docs.google.com/org/xml/sax/helpers/ParserAdapter.html#parse(org.xml.sax.InputSource))([InputSource](http://docs.google.com/org/xml/sax/InputSource.html) input)            Parse an XML document. |
| void | **XMLFilterImpl.**[**parse**](http://docs.google.com/org/xml/sax/helpers/XMLFilterImpl.html#parse(org.xml.sax.InputSource))([InputSource](http://docs.google.com/org/xml/sax/InputSource.html) input)            Parse a document. |
| void | **XMLReaderAdapter.**[**parse**](http://docs.google.com/org/xml/sax/helpers/XMLReaderAdapter.html#parse(java.lang.String))([String](http://docs.google.com/java/lang/String.html) systemId)            Parse the document. |
| void | **ParserAdapter.**[**parse**](http://docs.google.com/org/xml/sax/helpers/ParserAdapter.html#parse(java.lang.String))([String](http://docs.google.com/java/lang/String.html) systemId)            Parse an XML document. |
| void | **XMLFilterImpl.**[**parse**](http://docs.google.com/org/xml/sax/helpers/XMLFilterImpl.html#parse(java.lang.String))([String](http://docs.google.com/java/lang/String.html) systemId)            Parse a document. |
| [InputSource](http://docs.google.com/org/xml/sax/InputSource.html) | **XMLFilterImpl.**[**resolveEntity**](http://docs.google.com/org/xml/sax/helpers/XMLFilterImpl.html#resolveEntity(java.lang.String,%20java.lang.String))([String](http://docs.google.com/java/lang/String.html) publicId, [String](http://docs.google.com/java/lang/String.html) systemId)            Filter an external entity resolution. |
| [InputSource](http://docs.google.com/org/xml/sax/InputSource.html) | **DefaultHandler.**[**resolveEntity**](http://docs.google.com/org/xml/sax/helpers/DefaultHandler.html#resolveEntity(java.lang.String,%20java.lang.String))([String](http://docs.google.com/java/lang/String.html) publicId, [String](http://docs.google.com/java/lang/String.html) systemId)            Resolve an external entity. |

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | [**Class**](http://docs.google.com/java/io/IOException.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-useIOException.html)    [**NO FRAMES**](http://docs.google.com/IOException.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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