| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/Pipe.html) | [**Tree**](http://docs.google.com/package-tree.html) | [**Deprecated**](http://docs.google.com/deprecated-list.html) | [**Index**](http://docs.google.com/index-files/index-1.html) | [**Help**](http://docs.google.com/help-doc.html) | | --- | --- | --- | --- | --- | --- | --- | --- | | | ***Java™ Platform***  ***Standard Ed. 6*** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| [**PREV CLASS**](http://docs.google.com/java/nio/channels/OverlappingFileLockException.html)   [**NEXT CLASS**](http://docs.google.com/java/nio/channels/Pipe.SinkChannel.html) | [**FRAMES**](http://docs.google.com/index.html?java/nio/channels/Pipe.html)    [**NO FRAMES**](http://docs.google.com/Pipe.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: [NESTED](#3znysh7) | FIELD | [CONSTR](#2et92p0) | [METHOD](#tyjcwt) | DETAIL: FIELD | [CONSTR](#1t3h5sf) | [METHOD](#2s8eyo1) |

## **java.nio.channels**

Class Pipe

[java.lang.Object](http://docs.google.com/java/lang/Object.html)  
 **java.nio.channels.Pipe**

public abstract class **Pipe**extends [Object](http://docs.google.com/java/lang/Object.html)

A pair of channels that implements a unidirectional pipe.

A pipe consists of a pair of channels: A writable [sink](http://docs.google.com/java/nio/channels/Pipe.SinkChannel.html) channel and a readable [source](http://docs.google.com/java/nio/channels/Pipe.SourceChannel.html) channel. Once some bytes are written to the sink channel they can be read from source channel in exactly the order in which they were written.

Whether or not a thread writing bytes to a pipe will block until another thread reads those bytes, or some previously-written bytes, from the pipe is system-dependent and therefore unspecified. Many pipe implementations will buffer up to a certain number of bytes between the sink and source channels, but such buffering should not be assumed.

**Since:** 1.4

| **Nested Class Summary** | |
| --- | --- |
| static class | [**Pipe.SinkChannel**](http://docs.google.com/java/nio/channels/Pipe.SinkChannel.html)            A channel representing the writable end of a [Pipe](http://docs.google.com/java/nio/channels/Pipe.html). |
| static class | [**Pipe.SourceChannel**](http://docs.google.com/java/nio/channels/Pipe.SourceChannel.html)            A channel representing the readable end of a [Pipe](http://docs.google.com/java/nio/channels/Pipe.html). |

| **Constructor Summary** | |
| --- | --- |
| protected | [**Pipe**](http://docs.google.com/java/nio/channels/Pipe.html#Pipe())()            Initializes a new instance of this class. |

| **Method Summary** | |
| --- | --- |
| static [Pipe](http://docs.google.com/java/nio/channels/Pipe.html) | [**open**](http://docs.google.com/java/nio/channels/Pipe.html#open())()            Opens a pipe. |
| abstract  [Pipe.SinkChannel](http://docs.google.com/java/nio/channels/Pipe.SinkChannel.html) | [**sink**](http://docs.google.com/java/nio/channels/Pipe.html#sink())()            Returns this pipe's sink channel. |
| abstract  [Pipe.SourceChannel](http://docs.google.com/java/nio/channels/Pipe.SourceChannel.html) | [**source**](http://docs.google.com/java/nio/channels/Pipe.html#source())()            Returns this pipe's source channel. |

| **Methods inherited from class java.lang.**[**Object**](http://docs.google.com/java/lang/Object.html) |
| --- |
| [clone](http://docs.google.com/java/lang/Object.html#clone()), [equals](http://docs.google.com/java/lang/Object.html#equals(java.lang.Object)), [finalize](http://docs.google.com/java/lang/Object.html#finalize()), [getClass](http://docs.google.com/java/lang/Object.html#getClass()), [hashCode](http://docs.google.com/java/lang/Object.html#hashCode()), [notify](http://docs.google.com/java/lang/Object.html#notify()), [notifyAll](http://docs.google.com/java/lang/Object.html#notifyAll()), [toString](http://docs.google.com/java/lang/Object.html#toString()), [wait](http://docs.google.com/java/lang/Object.html#wait()), [wait](http://docs.google.com/java/lang/Object.html#wait(long)), [wait](http://docs.google.com/java/lang/Object.html#wait(long,%20int)) |

| **Constructor Detail** |
| --- |

### Pipe

protected **Pipe**()

Initializes a new instance of this class.

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

### source

public abstract [Pipe.SourceChannel](http://docs.google.com/java/nio/channels/Pipe.SourceChannel.html) **source**()

Returns this pipe's source channel.

**Returns:**This pipe's source channel

### sink

public abstract [Pipe.SinkChannel](http://docs.google.com/java/nio/channels/Pipe.SinkChannel.html) **sink**()

Returns this pipe's sink channel.

**Returns:**This pipe's sink channel

### open

public static [Pipe](http://docs.google.com/java/nio/channels/Pipe.html) **open**()  
 throws [IOException](http://docs.google.com/java/io/IOException.html)

Opens a pipe.

The new pipe is created by invoking the [openPipe](http://docs.google.com/java/nio/channels/spi/SelectorProvider.html#openPipe()) method of the system-wide default [SelectorProvider](http://docs.google.com/java/nio/channels/spi/SelectorProvider.html) object.

**Returns:**A new pipe **Throws:** [IOException](http://docs.google.com/java/io/IOException.html) - If an I/O error occurs

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/Pipe.html) | [**Tree**](http://docs.google.com/package-tree.html) | [**Deprecated**](http://docs.google.com/deprecated-list.html) | [**Index**](http://docs.google.com/index-files/index-1.html) | [**Help**](http://docs.google.com/help-doc.html) | | --- | --- | --- | --- | --- | --- | --- | --- | | | ***Java™ Platform***  ***Standard Ed. 6*** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| [**PREV CLASS**](http://docs.google.com/java/nio/channels/OverlappingFileLockException.html)   [**NEXT CLASS**](http://docs.google.com/java/nio/channels/Pipe.SinkChannel.html) | [**FRAMES**](http://docs.google.com/index.html?java/nio/channels/Pipe.html)    [**NO FRAMES**](http://docs.google.com/Pipe.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: [NESTED](#3znysh7) | FIELD | [CONSTR](#2et92p0) | [METHOD](#tyjcwt) | DETAIL: FIELD | [CONSTR](#1t3h5sf) | [METHOD](#2s8eyo1) |

[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.

Copyright 2006 Sun Microsystems, Inc. All rights reserved. Use is subject to [license terms](http://docs.google.com/legal/license.html). Also see the [documentation redistribution policy](http://java.sun.com/docs/redist.html).