| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/PipedReader.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/io/PipedOutputStream.html)   [**NEXT CLASS**](http://docs.google.com/java/io/PipedWriter.html) | [**FRAMES**](http://docs.google.com/index.html?java/io/PipedReader.html)    [**NO FRAMES**](http://docs.google.com/PipedReader.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#2et92p0) | [CONSTR](#tyjcwt) | [METHOD](#3dy6vkm) | DETAIL: FIELD | [CONSTR](#2s8eyo1) | [METHOD](#35nkun2) |

## **java.io**

Class PipedReader

[java.lang.Object](http://docs.google.com/java/lang/Object.html)  
 [java.io.Reader](http://docs.google.com/java/io/Reader.html)  
 **java.io.PipedReader**

**All Implemented Interfaces:** [Closeable](http://docs.google.com/java/io/Closeable.html), [Readable](http://docs.google.com/java/lang/Readable.html)

public class **PipedReader**extends [Reader](http://docs.google.com/java/io/Reader.html)

Piped character-input streams.

**Since:** JDK1.1

| **Field Summary** | |
| --- | --- |

| **Fields inherited from class java.io.**[**Reader**](http://docs.google.com/java/io/Reader.html) |
| --- |
| [lock](http://docs.google.com/java/io/Reader.html#lock) |

| **Constructor Summary** | |
| --- | --- |
| [**PipedReader**](http://docs.google.com/java/io/PipedReader.html#PipedReader())()            Creates a PipedReader so that it is not yet [connected](http://docs.google.com/java/io/PipedReader.html#connect(java.io.PipedWriter)). |
| [**PipedReader**](http://docs.google.com/java/io/PipedReader.html#PipedReader(int))(int pipeSize)            Creates a PipedReader so that it is not yet [connected](http://docs.google.com/java/io/PipedReader.html#connect(java.io.PipedWriter)) and uses the specified pipe size for the pipe's buffer. |
| [**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. |

| **Method Summary** | |
| --- | --- |
| void | [**close**](http://docs.google.com/java/io/PipedReader.html#close())()            Closes this piped stream and releases any system resources associated with the stream. |
| void | [**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. |
| int | [**read**](http://docs.google.com/java/io/PipedReader.html#read())()            Reads the next character of data from this piped stream. |
| int | [**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. |
| boolean | [**ready**](http://docs.google.com/java/io/PipedReader.html#ready())()            Tell whether this stream is ready to be read. |

| **Methods inherited from class java.io.**[**Reader**](http://docs.google.com/java/io/Reader.html) |
| --- |
| [mark](http://docs.google.com/java/io/Reader.html#mark(int)), [markSupported](http://docs.google.com/java/io/Reader.html#markSupported()), [read](http://docs.google.com/java/io/Reader.html#read(char%5B%5D)), [read](http://docs.google.com/java/io/Reader.html#read(java.nio.CharBuffer)), [reset](http://docs.google.com/java/io/Reader.html#reset()), [skip](http://docs.google.com/java/io/Reader.html#skip(long)) |

| **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** |
| --- |

### PipedReader

public **PipedReader**([PipedWriter](http://docs.google.com/java/io/PipedWriter.html) src)  
 throws [IOException](http://docs.google.com/java/io/IOException.html)

Creates a PipedReader so that it is connected to the piped writer src. Data written to src will then be available as input from this stream.

**Parameters:**src - the stream to connect to. **Throws:** [IOException](http://docs.google.com/java/io/IOException.html) - if an I/O error occurs.

### PipedReader

public **PipedReader**([PipedWriter](http://docs.google.com/java/io/PipedWriter.html) src,  
 int pipeSize)  
 throws [IOException](http://docs.google.com/java/io/IOException.html)

Creates a PipedReader so that it is connected to the piped writer src and uses the specified pipe size for the pipe's buffer. Data written to src will then be available as input from this stream.

**Parameters:**src - the stream to connect to.pipeSize - the size of the pipe's buffer. **Throws:** [IOException](http://docs.google.com/java/io/IOException.html) - if an I/O error occurs. [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - if pipeSize <= 0.**Since:** 1.6

### PipedReader

public **PipedReader**()

Creates a PipedReader so that it is not yet [connected](http://docs.google.com/java/io/PipedReader.html#connect(java.io.PipedWriter)). It must be [connected](http://docs.google.com/java/io/PipedWriter.html#connect(java.io.PipedReader)) to a PipedWriter before being used.

### PipedReader

public **PipedReader**(int pipeSize)

Creates a PipedReader so that it is not yet [connected](http://docs.google.com/java/io/PipedReader.html#connect(java.io.PipedWriter)) and uses the specified pipe size for the pipe's buffer. It must be [connected](http://docs.google.com/java/io/PipedWriter.html#connect(java.io.PipedReader)) to a PipedWriter before being used.

**Parameters:**pipeSize - the size of the pipe's buffer. **Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - if pipeSize <= 0.**Since:** 1.6

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

### connect

public void **connect**([PipedWriter](http://docs.google.com/java/io/PipedWriter.html) src)  
 throws [IOException](http://docs.google.com/java/io/IOException.html)

Causes this piped reader to be connected to the piped writer src. If this object is already connected to some other piped writer, an IOException is thrown.

If src is an unconnected piped writer and snk is an unconnected piped reader, they may be connected by either the call:

snk.connect(src)

or the call:

src.connect(snk)

The two calls have the same effect.

**Parameters:**src - The piped writer to connect to. **Throws:** [IOException](http://docs.google.com/java/io/IOException.html) - if an I/O error occurs.

### read

public int **read**()  
 throws [IOException](http://docs.google.com/java/io/IOException.html)

Reads the next character of data from this piped stream. If no character is available because the end of the stream has been reached, the value -1 is returned. This method blocks until input data is available, the end of the stream is detected, or an exception is thrown.

**Overrides:**[read](http://docs.google.com/java/io/Reader.html#read()) in class [Reader](http://docs.google.com/java/io/Reader.html) **Returns:**the next character of data, or -1 if the end of the stream is reached. **Throws:** [IOException](http://docs.google.com/java/io/IOException.html) - if the pipe is  [broken](http://docs.google.com/PipedInputStream.html#BROKEN), [unconnected](http://docs.google.com/java/io/PipedReader.html#connect(java.io.PipedWriter)), closed, or an I/O error occurs.

### read

public int **read**(char[] cbuf,  
 int off,  
 int len)  
 throws [IOException](http://docs.google.com/java/io/IOException.html)

Reads up to len characters of data from this piped stream into an array of characters. Less than len characters will be read if the end of the data stream is reached or if len exceeds the pipe's buffer size. This method blocks until at least one character of input is available.

**Specified by:**[read](http://docs.google.com/java/io/Reader.html#read(char%5B%5D,%20int,%20int)) in class [Reader](http://docs.google.com/java/io/Reader.html) **Parameters:**cbuf - the buffer into which the data is read.off - the start offset of the data.len - the maximum number of characters read. **Returns:**the total number of characters read into the buffer, or -1 if there is no more data because the end of the stream has been reached. **Throws:** [IOException](http://docs.google.com/java/io/IOException.html) - if the pipe is  [broken](http://docs.google.com/PipedInputStream.html#BROKEN), [unconnected](http://docs.google.com/java/io/PipedReader.html#connect(java.io.PipedWriter)), closed, or an I/O error occurs.

### ready

public boolean **ready**()  
 throws [IOException](http://docs.google.com/java/io/IOException.html)

Tell whether this stream is ready to be read. A piped character stream is ready if the circular buffer is not empty.

**Overrides:**[ready](http://docs.google.com/java/io/Reader.html#ready()) in class [Reader](http://docs.google.com/java/io/Reader.html) **Returns:**True if the next read() is guaranteed not to block for input, false otherwise. Note that returning false does not guarantee that the next read will block. **Throws:** [IOException](http://docs.google.com/java/io/IOException.html) - if the pipe is  [broken](http://docs.google.com/PipedInputStream.html#BROKEN), [unconnected](http://docs.google.com/java/io/PipedReader.html#connect(java.io.PipedWriter)), or closed.

### close

public void **close**()  
 throws [IOException](http://docs.google.com/java/io/IOException.html)

Closes this piped stream and releases any system resources associated with the stream.

**Specified by:**[close](http://docs.google.com/java/io/Closeable.html#close()) in interface [Closeable](http://docs.google.com/java/io/Closeable.html)**Specified by:**[close](http://docs.google.com/java/io/Reader.html#close()) in class [Reader](http://docs.google.com/java/io/Reader.html) **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/PipedReader.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/io/PipedOutputStream.html)   [**NEXT CLASS**](http://docs.google.com/java/io/PipedWriter.html) | [**FRAMES**](http://docs.google.com/index.html?java/io/PipedReader.html)    [**NO FRAMES**](http://docs.google.com/PipedReader.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#2et92p0) | [CONSTR](#tyjcwt) | [METHOD](#3dy6vkm) | DETAIL: FIELD | [CONSTR](#2s8eyo1) | [METHOD](#35nkun2) |

[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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