| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/Readable.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/lang/ProcessBuilder.html)   [**NEXT CLASS**](http://docs.google.com/java/lang/Runnable.html) | [**FRAMES**](http://docs.google.com/index.html?java/lang/Readable.html)    [**NO FRAMES**](http://docs.google.com/Readable.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | CONSTR | [METHOD](#3znysh7) | DETAIL: FIELD | CONSTR | [METHOD](#2et92p0) |

## **java.lang**

Interface Readable

**All Known Implementing Classes:** [BufferedReader](http://docs.google.com/java/io/BufferedReader.html), [CharArrayReader](http://docs.google.com/java/io/CharArrayReader.html), [CharBuffer](http://docs.google.com/java/nio/CharBuffer.html), [FileReader](http://docs.google.com/java/io/FileReader.html), [FilterReader](http://docs.google.com/java/io/FilterReader.html), [InputStreamReader](http://docs.google.com/java/io/InputStreamReader.html), [LineNumberReader](http://docs.google.com/java/io/LineNumberReader.html), [PipedReader](http://docs.google.com/java/io/PipedReader.html), [PushbackReader](http://docs.google.com/java/io/PushbackReader.html), [Reader](http://docs.google.com/java/io/Reader.html), [StringReader](http://docs.google.com/java/io/StringReader.html)

public interface **Readable**

A Readable is a source of characters. Characters from a Readable are made available to callers of the read method via a [CharBuffer](http://docs.google.com/java/nio/CharBuffer.html).

**Since:** 1.5

| **Method Summary** | |
| --- | --- |
| int | [**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. |

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

### read

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

Attempts to read characters into the specified character buffer. The buffer is used as a repository of characters as-is: the only changes made are the results of a put operation. No flipping or rewinding of the buffer is performed.

**Parameters:**cb - the buffer to read characters into **Returns:**@return The number of char values added to the buffer, or -1 if this source of characters is at its end **Throws:** [IOException](http://docs.google.com/java/io/IOException.html) - if an I/O error occurs [NullPointerException](http://docs.google.com/java/lang/NullPointerException.html) - if cb is null ReadOnlyBufferException - if cb is a read only buffer

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/Readable.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/lang/ProcessBuilder.html)   [**NEXT CLASS**](http://docs.google.com/java/lang/Runnable.html) | [**FRAMES**](http://docs.google.com/index.html?java/lang/Readable.html)    [**NO FRAMES**](http://docs.google.com/Readable.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | CONSTR | [METHOD](#3znysh7) | DETAIL: FIELD | CONSTR | [METHOD](#2et92p0) |

[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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