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

## **java.io**

Class StringReader

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

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

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

A character stream whose source is a string.

**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** | |
| --- | --- |
| [**StringReader**](http://docs.google.com/java/io/StringReader.html#StringReader(java.lang.String))([String](http://docs.google.com/java/lang/String.html) s)            Creates a new string reader. |

| **Method Summary** | |
| --- | --- |
| void | [**close**](http://docs.google.com/java/io/StringReader.html#close())()            Closes the stream and releases any system resources associated with it. |
| void | [**mark**](http://docs.google.com/java/io/StringReader.html#mark(int))(int readAheadLimit)            Marks the present position in the stream. |
| boolean | [**markSupported**](http://docs.google.com/java/io/StringReader.html#markSupported())()            Tells whether this stream supports the mark() operation, which it does. |
| int | [**read**](http://docs.google.com/java/io/StringReader.html#read())()            Reads a single character. |
| int | [**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. |
| boolean | [**ready**](http://docs.google.com/java/io/StringReader.html#ready())()            Tells whether this stream is ready to be read. |
| void | [**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. |
| long | [**skip**](http://docs.google.com/java/io/StringReader.html#skip(long))(long ns)            Skips the specified number of characters in the stream. |

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

| **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** |
| --- |

### StringReader

public **StringReader**([String](http://docs.google.com/java/lang/String.html) s)

Creates a new string reader.

**Parameters:**s - String providing the character stream.

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

### read

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

Reads a single character.

**Overrides:**[read](http://docs.google.com/java/io/Reader.html#read()) in class [Reader](http://docs.google.com/java/io/Reader.html) **Returns:**The character read, or -1 if the end of the stream has been reached **Throws:** [IOException](http://docs.google.com/java/io/IOException.html) - If 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 characters into a portion of an array.

**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 - Destination bufferoff - Offset at which to start writing characterslen - Maximum number of characters to read **Returns:**The number of characters read, or -1 if the end of the stream has been reached **Throws:** [IOException](http://docs.google.com/java/io/IOException.html) - If an I/O error occurs

### skip

public long **skip**(long ns)  
 throws [IOException](http://docs.google.com/java/io/IOException.html)

Skips the specified number of characters in the stream. Returns the number of characters that were skipped.

The ns parameter may be negative, even though the skip method of the [Reader](http://docs.google.com/java/io/Reader.html) superclass throws an exception in this case. Negative values of ns cause the stream to skip backwards. Negative return values indicate a skip backwards. It is not possible to skip backwards past the beginning of the string.

If the entire string has been read or skipped, then this method has no effect and always returns 0.

**Overrides:**[skip](http://docs.google.com/java/io/Reader.html#skip(long)) in class [Reader](http://docs.google.com/java/io/Reader.html) **Parameters:**ns - The number of characters to skip **Returns:**The number of characters actually skipped **Throws:** [IOException](http://docs.google.com/java/io/IOException.html) - If an I/O error occurs

### ready

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

Tells whether this stream is ready to be read.

**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 **Throws:** [IOException](http://docs.google.com/java/io/IOException.html) - If the stream is closed

### markSupported

public boolean **markSupported**()

Tells whether this stream supports the mark() operation, which it does.

**Overrides:**[markSupported](http://docs.google.com/java/io/Reader.html#markSupported()) in class [Reader](http://docs.google.com/java/io/Reader.html) **Returns:**true if and only if this stream supports the mark operation.

### mark

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

Marks the present position in the stream. Subsequent calls to reset() will reposition the stream to this point.

**Overrides:**[mark](http://docs.google.com/java/io/Reader.html#mark(int)) in class [Reader](http://docs.google.com/java/io/Reader.html) **Parameters:**readAheadLimit - Limit on the number of characters that may be read while still preserving the mark. Because the stream's input comes from a string, there is no actual limit, so this argument must not be negative, but is otherwise ignored. **Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - If readAheadLimit is < 0 [IOException](http://docs.google.com/java/io/IOException.html) - If an I/O error occurs

### reset

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

Resets the stream to the most recent mark, or to the beginning of the string if it has never been marked.

**Overrides:**[reset](http://docs.google.com/java/io/Reader.html#reset()) 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

### close

public void **close**()

Closes the stream and releases any system resources associated with it. Once the stream has been closed, further read(), ready(), mark(), or reset() invocations will throw an IOException. Closing a previously closed stream has no effect.

**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)

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/StringReader.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*** |
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[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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