| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/StringWriter.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/StringReader.html)   [**NEXT CLASS**](http://docs.google.com/java/io/SyncFailedException.html) | [**FRAMES**](http://docs.google.com/index.html?java/io/StringWriter.html)    [**NO FRAMES**](http://docs.google.com/StringWriter.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#2et92p0) | [CONSTR](#tyjcwt) | [METHOD](#3dy6vkm) | DETAIL: FIELD | [CONSTR](#2s8eyo1) | [METHOD](#26in1rg) |

## **java.io**

Class StringWriter

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

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

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

A character stream that collects its output in a string buffer, which can then be used to construct a string.

Closing a StringWriter has no effect. The methods in this class can be called after the stream has been closed without generating an IOException.

**Since:** JDK1.1

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

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

| **Constructor Summary** | |
| --- | --- |
| [**StringWriter**](http://docs.google.com/java/io/StringWriter.html#StringWriter())()            Create a new string writer using the default initial string-buffer size. |
| [**StringWriter**](http://docs.google.com/java/io/StringWriter.html#StringWriter(int))(int initialSize)            Create a new string writer using the specified initial string-buffer size. |

| **Method Summary** | |
| --- | --- |
| [StringWriter](http://docs.google.com/java/io/StringWriter.html) | [**append**](http://docs.google.com/java/io/StringWriter.html#append(char))(char c)            Appends the specified character to this writer. |
| [StringWriter](http://docs.google.com/java/io/StringWriter.html) | [**append**](http://docs.google.com/java/io/StringWriter.html#append(java.lang.CharSequence))([CharSequence](http://docs.google.com/java/lang/CharSequence.html) csq)            Appends the specified character sequence to this writer. |
| [StringWriter](http://docs.google.com/java/io/StringWriter.html) | [**append**](http://docs.google.com/java/io/StringWriter.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. |
| void | [**close**](http://docs.google.com/java/io/StringWriter.html#close())()            Closing a StringWriter has no effect. |
| void | [**flush**](http://docs.google.com/java/io/StringWriter.html#flush())()            Flush the stream. |
| [StringBuffer](http://docs.google.com/java/lang/StringBuffer.html) | [**getBuffer**](http://docs.google.com/java/io/StringWriter.html#getBuffer())()            Return the string buffer itself. |
| [String](http://docs.google.com/java/lang/String.html) | [**toString**](http://docs.google.com/java/io/StringWriter.html#toString())()            Return the buffer's current value as a string. |
| void | [**write**](http://docs.google.com/java/io/StringWriter.html#write(char%5B%5D,%20int,%20int))(char[] cbuf, int off, int len)            Write a portion of an array of characters. |
| void | [**write**](http://docs.google.com/java/io/StringWriter.html#write(int))(int c)            Write a single character. |
| void | [**write**](http://docs.google.com/java/io/StringWriter.html#write(java.lang.String))([String](http://docs.google.com/java/lang/String.html) str)            Write a string. |
| void | [**write**](http://docs.google.com/java/io/StringWriter.html#write(java.lang.String,%20int,%20int))([String](http://docs.google.com/java/lang/String.html) str, int off, int len)            Write a portion of a string. |

| **Methods inherited from class java.io.**[**Writer**](http://docs.google.com/java/io/Writer.html) |
| --- |
| [write](http://docs.google.com/java/io/Writer.html#write(char%5B%5D)) |

| **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()), [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** |
| --- |

### StringWriter

public **StringWriter**()

Create a new string writer using the default initial string-buffer size.

### StringWriter

public **StringWriter**(int initialSize)

Create a new string writer using the specified initial string-buffer size.

**Parameters:**initialSize - The number of char values that will fit into this buffer before it is automatically expanded **Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - If initialSize is negative

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

### write

public void **write**(int c)

Write a single character.

**Overrides:**[write](http://docs.google.com/java/io/Writer.html#write(int)) in class [Writer](http://docs.google.com/java/io/Writer.html) **Parameters:**c - int specifying a character to be written

### write

public void **write**(char[] cbuf,  
 int off,  
 int len)

Write a portion of an array of characters.

**Specified by:**[write](http://docs.google.com/java/io/Writer.html#write(char%5B%5D,%20int,%20int)) in class [Writer](http://docs.google.com/java/io/Writer.html) **Parameters:**cbuf - Array of charactersoff - Offset from which to start writing characterslen - Number of characters to write

### write

public void **write**([String](http://docs.google.com/java/lang/String.html) str)

Write a string.

**Overrides:**[write](http://docs.google.com/java/io/Writer.html#write(java.lang.String)) in class [Writer](http://docs.google.com/java/io/Writer.html) **Parameters:**str - String to be written

### write

public void **write**([String](http://docs.google.com/java/lang/String.html) str,  
 int off,  
 int len)

Write a portion of a string.

**Overrides:**[write](http://docs.google.com/java/io/Writer.html#write(java.lang.String,%20int,%20int)) in class [Writer](http://docs.google.com/java/io/Writer.html) **Parameters:**str - String to be writtenoff - Offset from which to start writing characterslen - Number of characters to write

### append

public [StringWriter](http://docs.google.com/java/io/StringWriter.html) **append**([CharSequence](http://docs.google.com/java/lang/CharSequence.html) csq)

Appends the specified character sequence to this writer.

An invocation of this method of the form out.append(csq) behaves in exactly the same way as the invocation

out.write(csq.toString())

Depending on the specification of toString for the character sequence csq, the entire sequence may not be appended. For instance, invoking the toString method of a character buffer will return a subsequence whose content depends upon the buffer's position and limit.

**Specified by:**[append](http://docs.google.com/java/lang/Appendable.html#append(java.lang.CharSequence)) in interface [Appendable](http://docs.google.com/java/lang/Appendable.html)**Overrides:**[append](http://docs.google.com/java/io/Writer.html#append(java.lang.CharSequence)) in class [Writer](http://docs.google.com/java/io/Writer.html) **Parameters:**csq - The character sequence to append. If csq is null, then the four characters "null" are appended to this writer. **Returns:**This writer**Since:** 1.5

### append

public [StringWriter](http://docs.google.com/java/io/StringWriter.html) **append**([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.

An invocation of this method of the form out.append(csq, start, end) when csq is not null, behaves in exactly the same way as the invocation

out.write(csq.subSequence(start, end).toString())

**Specified by:**[append](http://docs.google.com/java/lang/Appendable.html#append(java.lang.CharSequence,%20int,%20int)) in interface [Appendable](http://docs.google.com/java/lang/Appendable.html)**Overrides:**[append](http://docs.google.com/java/io/Writer.html#append(java.lang.CharSequence,%20int,%20int)) in class [Writer](http://docs.google.com/java/io/Writer.html) **Parameters:**csq - The character sequence from which a subsequence will be appended. If csq is null, then characters will be appended as if csq contained the four characters "null".start - The index of the first character in the subsequenceend - The index of the character following the last character in the subsequence **Returns:**This writer **Throws:** [IndexOutOfBoundsException](http://docs.google.com/java/lang/IndexOutOfBoundsException.html) - If start or end are negative, start is greater than end, or end is greater than csq.length()**Since:** 1.5

### append

public [StringWriter](http://docs.google.com/java/io/StringWriter.html) **append**(char c)

Appends the specified character to this writer.

An invocation of this method of the form out.append(c) behaves in exactly the same way as the invocation

out.write(c)

**Specified by:**[append](http://docs.google.com/java/lang/Appendable.html#append(char)) in interface [Appendable](http://docs.google.com/java/lang/Appendable.html)**Overrides:**[append](http://docs.google.com/java/io/Writer.html#append(char)) in class [Writer](http://docs.google.com/java/io/Writer.html) **Parameters:**c - The 16-bit character to append **Returns:**This writer**Since:** 1.5

### toString

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

Return the buffer's current value as a string.

**Overrides:**[toString](http://docs.google.com/java/lang/Object.html#toString()) in class [Object](http://docs.google.com/java/lang/Object.html) **Returns:**a string representation of the object.

### getBuffer

public [StringBuffer](http://docs.google.com/java/lang/StringBuffer.html) **getBuffer**()

Return the string buffer itself.

**Returns:**StringBuffer holding the current buffer value.

### flush

public void **flush**()

Flush the stream.

**Specified by:**[flush](http://docs.google.com/java/io/Flushable.html#flush()) in interface [Flushable](http://docs.google.com/java/io/Flushable.html)**Specified by:**[flush](http://docs.google.com/java/io/Writer.html#flush()) in class [Writer](http://docs.google.com/java/io/Writer.html)

### close

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

Closing a StringWriter has no effect. The methods in this class can be called after the stream has been closed without generating an IOException.

**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/Writer.html#close()) in class [Writer](http://docs.google.com/java/io/Writer.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/StringWriter.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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| SUMMARY: NESTED | [FIELD](#2et92p0) | [CONSTR](#tyjcwt) | [METHOD](#3dy6vkm) | DETAIL: FIELD | [CONSTR](#2s8eyo1) | [METHOD](#26in1rg) |

[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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