| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/CharArrayWriter.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/CharArrayReader.html)   [**NEXT CLASS**](http://docs.google.com/java/io/CharConversionException.html) | [**FRAMES**](http://docs.google.com/index.html?java/io/CharArrayWriter.html)    [**NO FRAMES**](http://docs.google.com/CharArrayWriter.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#3znysh7) | [CONSTR](#tyjcwt) | [METHOD](#3dy6vkm) | DETAIL: [FIELD](#2s8eyo1) | [CONSTR](#26in1rg) | [METHOD](#1ksv4uv) |

## **java.io**

Class CharArrayWriter

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

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

This class implements a character buffer that can be used as an Writer. The buffer automatically grows when data is written to the stream. The data can be retrieved using toCharArray() and toString().

Note: Invoking close() on this class has no effect, and methods of this class can be called after the stream has closed without generating an IOException.

**Since:** JDK1.1

| **Field Summary** | |
| --- | --- |
| protected  char[] | [**buf**](http://docs.google.com/java/io/CharArrayWriter.html#buf)            The buffer where data is stored. |
| protected  int | [**count**](http://docs.google.com/java/io/CharArrayWriter.html#count)            The number of chars in the buffer. |

| **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** | |
| --- | --- |
| [**CharArrayWriter**](http://docs.google.com/java/io/CharArrayWriter.html#CharArrayWriter())()            Creates a new CharArrayWriter. |
| [**CharArrayWriter**](http://docs.google.com/java/io/CharArrayWriter.html#CharArrayWriter(int))(int initialSize)            Creates a new CharArrayWriter with the specified initial size. |

| **Method Summary** | |
| --- | --- |
| [CharArrayWriter](http://docs.google.com/java/io/CharArrayWriter.html) | [**append**](http://docs.google.com/java/io/CharArrayWriter.html#append(char))(char c)            Appends the specified character to this writer. |
| [CharArrayWriter](http://docs.google.com/java/io/CharArrayWriter.html) | [**append**](http://docs.google.com/java/io/CharArrayWriter.html#append(java.lang.CharSequence))([CharSequence](http://docs.google.com/java/lang/CharSequence.html) csq)            Appends the specified character sequence to this writer. |
| [CharArrayWriter](http://docs.google.com/java/io/CharArrayWriter.html) | [**append**](http://docs.google.com/java/io/CharArrayWriter.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/CharArrayWriter.html#close())()            Close the stream. |
| void | [**flush**](http://docs.google.com/java/io/CharArrayWriter.html#flush())()            Flush the stream. |
| void | [**reset**](http://docs.google.com/java/io/CharArrayWriter.html#reset())()            Resets the buffer so that you can use it again without throwing away the already allocated buffer. |
| int | [**size**](http://docs.google.com/java/io/CharArrayWriter.html#size())()            Returns the current size of the buffer. |
| char[] | [**toCharArray**](http://docs.google.com/java/io/CharArrayWriter.html#toCharArray())()            Returns a copy of the input data. |
| [String](http://docs.google.com/java/lang/String.html) | [**toString**](http://docs.google.com/java/io/CharArrayWriter.html#toString())()            Converts input data to a string. |
| void | [**write**](http://docs.google.com/java/io/CharArrayWriter.html#write(char%5B%5D,%20int,%20int))(char[] c, int off, int len)            Writes characters to the buffer. |
| void | [**write**](http://docs.google.com/java/io/CharArrayWriter.html#write(int))(int c)            Writes a character to the buffer. |
| void | [**write**](http://docs.google.com/java/io/CharArrayWriter.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 to the buffer. |
| void | [**writeTo**](http://docs.google.com/java/io/CharArrayWriter.html#writeTo(java.io.Writer))([Writer](http://docs.google.com/java/io/Writer.html) out)            Writes the contents of the buffer to another character stream. |

| **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)), [write](http://docs.google.com/java/io/Writer.html#write(java.lang.String)) |

| **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)) |

| **Field Detail** |
| --- |

### buf

protected char[] **buf**

The buffer where data is stored.

### count

protected int **count**

The number of chars in the buffer.

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

### CharArrayWriter

public **CharArrayWriter**()

Creates a new CharArrayWriter.

### CharArrayWriter

public **CharArrayWriter**(int initialSize)

Creates a new CharArrayWriter with the specified initial size.

**Parameters:**initialSize - an int specifying the initial buffer size. **Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - if initialSize is negative

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

### write

public void **write**(int c)

Writes a character to the buffer.

**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[] c,  
 int off,  
 int len)

Writes characters to the buffer.

**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:**c - the data to be writtenoff - the start offset in the datalen - the number of chars that are 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 to the buffer.

**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 written fromoff - Offset from which to start reading characterslen - Number of characters to be written

### writeTo

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

Writes the contents of the buffer to another character stream.

**Parameters:**out - the output stream to write to **Throws:** [IOException](http://docs.google.com/java/io/IOException.html) - If an I/O error occurs.

### append

public [CharArrayWriter](http://docs.google.com/java/io/CharArrayWriter.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 [CharArrayWriter](http://docs.google.com/java/io/CharArrayWriter.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 [CharArrayWriter](http://docs.google.com/java/io/CharArrayWriter.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

### reset

public void **reset**()

Resets the buffer so that you can use it again without throwing away the already allocated buffer.

### toCharArray

public char[] **toCharArray**()

Returns a copy of the input data.

**Returns:**an array of chars copied from the input data.

### size

public int **size**()

Returns the current size of the buffer.

**Returns:**an int representing the current size of the buffer.

### toString

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

Converts input data to 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:**the string.

### 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**()

Close the stream. This method does not release the buffer, since its contents might still be required. Note: Invoking this method in this class will have 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/Writer.html#close()) in class [Writer](http://docs.google.com/java/io/Writer.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/CharArrayWriter.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/CharArrayReader.html)   [**NEXT CLASS**](http://docs.google.com/java/io/CharConversionException.html) | [**FRAMES**](http://docs.google.com/index.html?java/io/CharArrayWriter.html)    [**NO FRAMES**](http://docs.google.com/CharArrayWriter.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
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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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