| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/FilterWriter.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/FilterReader.html)   [**NEXT CLASS**](http://docs.google.com/java/io/Flushable.html) | [**FRAMES**](http://docs.google.com/index.html?java/io/FilterWriter.html)    [**NO FRAMES**](http://docs.google.com/FilterWriter.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#3znysh7) | [CONSTR](#tyjcwt) | [METHOD](#3dy6vkm) | DETAIL: [FIELD](#2s8eyo1) | [CONSTR](#3rdcrjn) | [METHOD](#lnxbz9) |

## **java.io**

Class FilterWriter

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

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

Abstract class for writing filtered character streams. The abstract class FilterWriter itself provides default methods that pass all requests to the contained stream. Subclasses of FilterWriter should override some of these methods and may also provide additional methods and fields.

**Since:** JDK1.1

| **Field Summary** | |
| --- | --- |
| protected  [Writer](http://docs.google.com/java/io/Writer.html) | [**out**](http://docs.google.com/java/io/FilterWriter.html#out)            The underlying character-output stream. |

| **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** | |
| --- | --- |
| protected | [**FilterWriter**](http://docs.google.com/java/io/FilterWriter.html#FilterWriter(java.io.Writer))([Writer](http://docs.google.com/java/io/Writer.html) out)            Create a new filtered writer. |

| **Method Summary** | |
| --- | --- |
| void | [**close**](http://docs.google.com/java/io/FilterWriter.html#close())()            Closes the stream, flushing it first. |
| void | [**flush**](http://docs.google.com/java/io/FilterWriter.html#flush())()            Flushes the stream. |
| void | [**write**](http://docs.google.com/java/io/FilterWriter.html#write(char%5B%5D,%20int,%20int))(char[] cbuf, int off, int len)            Writes a portion of an array of characters. |
| void | [**write**](http://docs.google.com/java/io/FilterWriter.html#write(int))(int c)            Writes a single character. |
| void | [**write**](http://docs.google.com/java/io/FilterWriter.html#write(java.lang.String,%20int,%20int))([String](http://docs.google.com/java/lang/String.html) str, int off, int len)            Writes a portion of a string. |

| **Methods inherited from class java.io.**[**Writer**](http://docs.google.com/java/io/Writer.html) |
| --- |
| [append](http://docs.google.com/java/io/Writer.html#append(char)), [append](http://docs.google.com/java/io/Writer.html#append(java.lang.CharSequence)), [append](http://docs.google.com/java/io/Writer.html#append(java.lang.CharSequence,%20int,%20int)), [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()), [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)) |

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

### out

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

The underlying character-output stream.

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

### FilterWriter

protected **FilterWriter**([Writer](http://docs.google.com/java/io/Writer.html) out)

Create a new filtered writer.

**Parameters:**out - a Writer object to provide the underlying stream. **Throws:** [NullPointerException](http://docs.google.com/java/lang/NullPointerException.html) - if out is null

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

### write

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

Writes 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 **Throws:** [IOException](http://docs.google.com/java/io/IOException.html) - If an I/O error occurs

### write

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

Writes 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 - Buffer of characters to be writtenoff - Offset from which to start reading characterslen - Number of characters to be written **Throws:** [IOException](http://docs.google.com/java/io/IOException.html) - If an I/O error occurs

### write

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

Writes 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 reading characterslen - Number of characters to be written **Throws:** [IOException](http://docs.google.com/java/io/IOException.html) - If an I/O error occurs

### flush

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

Flushes 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) **Throws:** [IOException](http://docs.google.com/java/io/IOException.html) - If an I/O error occurs

### close

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

**Description copied from class:** [**Writer**](http://docs.google.com/java/io/Writer.html#close()) Closes the stream, flushing it first. Once the stream has been closed, further write() or flush() invocations will cause an IOException to be thrown. 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/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/FilterWriter.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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