| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/DocumentFilter.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/javax/swing/text/Document.html)   [**NEXT CLASS**](http://docs.google.com/javax/swing/text/DocumentFilter.FilterBypass.html) | [**FRAMES**](http://docs.google.com/index.html?javax/swing/text/DocumentFilter.html)    [**NO FRAMES**](http://docs.google.com/DocumentFilter.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: [NESTED](#3znysh7) | FIELD | [CONSTR](#2et92p0) | [METHOD](#tyjcwt) | DETAIL: FIELD | [CONSTR](#1t3h5sf) | [METHOD](#2s8eyo1) |

## **javax.swing.text**

Class DocumentFilter

[java.lang.Object](http://docs.google.com/java/lang/Object.html)  
 **javax.swing.text.DocumentFilter**

public class **DocumentFilter**extends [Object](http://docs.google.com/java/lang/Object.html)

DocumentFilter, as the name implies, is a filter for the Document mutation methods. When a Document containing a DocumentFilter is modified (either through insert or remove), it forwards the appropriate method invocation to the DocumentFilter. The default implementation allows the modification to occur. Subclasses can filter the modifications by conditionally invoking methods on the superclass, or invoking the necessary methods on the passed in FilterBypass. Subclasses should NOT call back into the Document for the modification instead call into the superclass or the FilterBypass.

When remove or insertString is invoked on the DocumentFilter, the DocumentFilter may callback into the FilterBypass multiple times, or for different regions, but it should not callback into the FilterBypass after returning from the remove or insertString method.

**Since:** 1.4 **See Also:**[Document](http://docs.google.com/javax/swing/text/Document.html)

| **Nested Class Summary** | |
| --- | --- |
| static class | [**DocumentFilter.FilterBypass**](http://docs.google.com/javax/swing/text/DocumentFilter.FilterBypass.html)            Used as a way to circumvent calling back into the Document to change it. |

| **Constructor Summary** | |
| --- | --- |
| [**DocumentFilter**](http://docs.google.com/javax/swing/text/DocumentFilter.html#DocumentFilter())() |

| **Method Summary** | |
| --- | --- |
| void | [**insertString**](http://docs.google.com/javax/swing/text/DocumentFilter.html#insertString(javax.swing.text.DocumentFilter.FilterBypass,%20int,%20java.lang.String,%20javax.swing.text.AttributeSet))([DocumentFilter.FilterBypass](http://docs.google.com/javax/swing/text/DocumentFilter.FilterBypass.html) fb, int offset, [String](http://docs.google.com/java/lang/String.html) string, [AttributeSet](http://docs.google.com/javax/swing/text/AttributeSet.html) attr)            Invoked prior to insertion of text into the specified Document. |
| void | [**remove**](http://docs.google.com/javax/swing/text/DocumentFilter.html#remove(javax.swing.text.DocumentFilter.FilterBypass,%20int,%20int))([DocumentFilter.FilterBypass](http://docs.google.com/javax/swing/text/DocumentFilter.FilterBypass.html) fb, int offset, int length)            Invoked prior to removal of the specified region in the specified Document. |
| void | [**replace**](http://docs.google.com/javax/swing/text/DocumentFilter.html#replace(javax.swing.text.DocumentFilter.FilterBypass,%20int,%20int,%20java.lang.String,%20javax.swing.text.AttributeSet))([DocumentFilter.FilterBypass](http://docs.google.com/javax/swing/text/DocumentFilter.FilterBypass.html) fb, int offset, int length, [String](http://docs.google.com/java/lang/String.html) text, [AttributeSet](http://docs.google.com/javax/swing/text/AttributeSet.html) attrs)            Invoked prior to replacing a region of text in the specified Document. |

| **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** |
| --- |

### DocumentFilter

public **DocumentFilter**()

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

### remove

public void **remove**([DocumentFilter.FilterBypass](http://docs.google.com/javax/swing/text/DocumentFilter.FilterBypass.html) fb,  
 int offset,  
 int length)  
 throws [BadLocationException](http://docs.google.com/javax/swing/text/BadLocationException.html)

Invoked prior to removal of the specified region in the specified Document. Subclasses that want to conditionally allow removal should override this and only call supers implementation as necessary, or call directly into the FilterBypass as necessary.

**Parameters:**fb - FilterBypass that can be used to mutate Documentoffset - the offset from the beginning >= 0length - the number of characters to remove >= 0 **Throws:** [BadLocationException](http://docs.google.com/javax/swing/text/BadLocationException.html) - some portion of the removal range was not a valid part of the document. The location in the exception is the first bad position encountered.

### insertString

public void **insertString**([DocumentFilter.FilterBypass](http://docs.google.com/javax/swing/text/DocumentFilter.FilterBypass.html) fb,  
 int offset,  
 [String](http://docs.google.com/java/lang/String.html) string,  
 [AttributeSet](http://docs.google.com/javax/swing/text/AttributeSet.html) attr)  
 throws [BadLocationException](http://docs.google.com/javax/swing/text/BadLocationException.html)

Invoked prior to insertion of text into the specified Document. Subclasses that want to conditionally allow insertion should override this and only call supers implementation as necessary, or call directly into the FilterBypass.

**Parameters:**fb - FilterBypass that can be used to mutate Documentoffset - the offset into the document to insert the content >= 0. All positions that track change at or after the given location will move.string - the string to insertattr - the attributes to associate with the inserted content. This may be null if there are no attributes. **Throws:** [BadLocationException](http://docs.google.com/javax/swing/text/BadLocationException.html) - the given insert position is not a valid position within the document

### replace

public void **replace**([DocumentFilter.FilterBypass](http://docs.google.com/javax/swing/text/DocumentFilter.FilterBypass.html) fb,  
 int offset,  
 int length,  
 [String](http://docs.google.com/java/lang/String.html) text,  
 [AttributeSet](http://docs.google.com/javax/swing/text/AttributeSet.html) attrs)  
 throws [BadLocationException](http://docs.google.com/javax/swing/text/BadLocationException.html)

Invoked prior to replacing a region of text in the specified Document. Subclasses that want to conditionally allow replace should override this and only call supers implementation as necessary, or call directly into the FilterBypass.

**Parameters:**fb - FilterBypass that can be used to mutate Documentoffset - Location in Documentlength - Length of text to deletetext - Text to insert, null indicates no text to insertattrs - AttributeSet indicating attributes of inserted text, null is legal. **Throws:** [BadLocationException](http://docs.google.com/javax/swing/text/BadLocationException.html) - the given insert position is not a valid position within the document

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