| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/AbstractDocument.DefaultDocumentEvent.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/AbstractDocument.Content.html)   [**NEXT CLASS**](http://docs.google.com/javax/swing/text/AbstractDocument.ElementEdit.html) | [**FRAMES**](http://docs.google.com/index.html?javax/swing/text/AbstractDocument.DefaultDocumentEvent.html)    [**NO FRAMES**](http://docs.google.com/AbstractDocument.DefaultDocumentEvent.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#3dy6vkm) | [CONSTR](#4d34og8) | [METHOD](#2s8eyo1) | DETAIL: FIELD | [CONSTR](#lnxbz9) | [METHOD](#1ksv4uv) |

## **javax.swing.text**

Class AbstractDocument.DefaultDocumentEvent

[java.lang.Object](http://docs.google.com/java/lang/Object.html)  
 [javax.swing.undo.AbstractUndoableEdit](http://docs.google.com/javax/swing/undo/AbstractUndoableEdit.html)  
 [javax.swing.undo.CompoundEdit](http://docs.google.com/javax/swing/undo/CompoundEdit.html)  
 **javax.swing.text.AbstractDocument.DefaultDocumentEvent**

**All Implemented Interfaces:** [Serializable](http://docs.google.com/java/io/Serializable.html), [DocumentEvent](http://docs.google.com/javax/swing/event/DocumentEvent.html), [UndoableEdit](http://docs.google.com/javax/swing/undo/UndoableEdit.html) **Enclosing class:**[AbstractDocument](http://docs.google.com/javax/swing/text/AbstractDocument.html)

public class **AbstractDocument.DefaultDocumentEvent**extends [CompoundEdit](http://docs.google.com/javax/swing/undo/CompoundEdit.html)implements [DocumentEvent](http://docs.google.com/javax/swing/event/DocumentEvent.html)

Stores document changes as the document is being modified. Can subsequently be used for change notification when done with the document modification transaction. This is used by the AbstractDocument class and its extensions for broadcasting change information to the document listeners.

| **Nested Class Summary** | |
| --- | --- |

| **Nested classes/interfaces inherited from interface javax.swing.event.**[**DocumentEvent**](http://docs.google.com/javax/swing/event/DocumentEvent.html) |
| --- |
| [DocumentEvent.ElementChange](http://docs.google.com/javax/swing/event/DocumentEvent.ElementChange.html), [DocumentEvent.EventType](http://docs.google.com/javax/swing/event/DocumentEvent.EventType.html) |

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

| **Fields inherited from class javax.swing.undo.**[**CompoundEdit**](http://docs.google.com/javax/swing/undo/CompoundEdit.html) |
| --- |
| [edits](http://docs.google.com/javax/swing/undo/CompoundEdit.html#edits) |

| **Fields inherited from class javax.swing.undo.**[**AbstractUndoableEdit**](http://docs.google.com/javax/swing/undo/AbstractUndoableEdit.html) |
| --- |
| [RedoName](http://docs.google.com/javax/swing/undo/AbstractUndoableEdit.html#RedoName), [UndoName](http://docs.google.com/javax/swing/undo/AbstractUndoableEdit.html#UndoName) |

| **Constructor Summary** | |
| --- | --- |
| [**AbstractDocument.DefaultDocumentEvent**](http://docs.google.com/javax/swing/text/AbstractDocument.DefaultDocumentEvent.html#AbstractDocument.DefaultDocumentEvent(int,%20int,%20javax.swing.event.DocumentEvent.EventType))(int offs, int len, [DocumentEvent.EventType](http://docs.google.com/javax/swing/event/DocumentEvent.EventType.html) type)            Constructs a change record. |

| **Method Summary** | |
| --- | --- |
| boolean | [**addEdit**](http://docs.google.com/javax/swing/text/AbstractDocument.DefaultDocumentEvent.html#addEdit(javax.swing.undo.UndoableEdit))([UndoableEdit](http://docs.google.com/javax/swing/undo/UndoableEdit.html) anEdit)            Adds a document edit. |
| [DocumentEvent.ElementChange](http://docs.google.com/javax/swing/event/DocumentEvent.ElementChange.html) | [**getChange**](http://docs.google.com/javax/swing/text/AbstractDocument.DefaultDocumentEvent.html#getChange(javax.swing.text.Element))([Element](http://docs.google.com/javax/swing/text/Element.html) elem)            Gets the changes for an element. |
| [Document](http://docs.google.com/javax/swing/text/Document.html) | [**getDocument**](http://docs.google.com/javax/swing/text/AbstractDocument.DefaultDocumentEvent.html#getDocument())()            Gets the document that sourced the change event. |
| int | [**getLength**](http://docs.google.com/javax/swing/text/AbstractDocument.DefaultDocumentEvent.html#getLength())()            Returns the length of the change. |
| int | [**getOffset**](http://docs.google.com/javax/swing/text/AbstractDocument.DefaultDocumentEvent.html#getOffset())()            Returns the offset within the document of the start of the change. |
| [String](http://docs.google.com/java/lang/String.html) | [**getPresentationName**](http://docs.google.com/javax/swing/text/AbstractDocument.DefaultDocumentEvent.html#getPresentationName())()            Provides a localized, human readable description of this edit suitable for use in, say, a change log. |
| [String](http://docs.google.com/java/lang/String.html) | [**getRedoPresentationName**](http://docs.google.com/javax/swing/text/AbstractDocument.DefaultDocumentEvent.html#getRedoPresentationName())()            Provides a localized, human readable description of the redoable form of this edit, e.g. |
| [DocumentEvent.EventType](http://docs.google.com/javax/swing/event/DocumentEvent.EventType.html) | [**getType**](http://docs.google.com/javax/swing/text/AbstractDocument.DefaultDocumentEvent.html#getType())()            Returns the type of event. |
| [String](http://docs.google.com/java/lang/String.html) | [**getUndoPresentationName**](http://docs.google.com/javax/swing/text/AbstractDocument.DefaultDocumentEvent.html#getUndoPresentationName())()            Provides a localized, human readable description of the undoable form of this edit, e.g. |
| boolean | [**isSignificant**](http://docs.google.com/javax/swing/text/AbstractDocument.DefaultDocumentEvent.html#isSignificant())()            DefaultDocument events are significant. |
| void | [**redo**](http://docs.google.com/javax/swing/text/AbstractDocument.DefaultDocumentEvent.html#redo())()            Redoes a change. |
| [String](http://docs.google.com/java/lang/String.html) | [**toString**](http://docs.google.com/javax/swing/text/AbstractDocument.DefaultDocumentEvent.html#toString())()            Returns a string description of the change event. |
| void | [**undo**](http://docs.google.com/javax/swing/text/AbstractDocument.DefaultDocumentEvent.html#undo())()            Undoes a change. |

| **Methods inherited from class javax.swing.undo.**[**CompoundEdit**](http://docs.google.com/javax/swing/undo/CompoundEdit.html) |
| --- |
| [canRedo](http://docs.google.com/javax/swing/undo/CompoundEdit.html#canRedo()), [canUndo](http://docs.google.com/javax/swing/undo/CompoundEdit.html#canUndo()), [die](http://docs.google.com/javax/swing/undo/CompoundEdit.html#die()), [end](http://docs.google.com/javax/swing/undo/CompoundEdit.html#end()), [isInProgress](http://docs.google.com/javax/swing/undo/CompoundEdit.html#isInProgress()), [lastEdit](http://docs.google.com/javax/swing/undo/CompoundEdit.html#lastEdit()) |

| **Methods inherited from class javax.swing.undo.**[**AbstractUndoableEdit**](http://docs.google.com/javax/swing/undo/AbstractUndoableEdit.html) |
| --- |
| [replaceEdit](http://docs.google.com/javax/swing/undo/AbstractUndoableEdit.html#replaceEdit(javax.swing.undo.UndoableEdit)) |

| **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** |
| --- |

### AbstractDocument.DefaultDocumentEvent

public **AbstractDocument.DefaultDocumentEvent**(int offs,  
 int len,  
 [DocumentEvent.EventType](http://docs.google.com/javax/swing/event/DocumentEvent.EventType.html) type)

Constructs a change record.

**Parameters:**offs - the offset into the document of the change >= 0len - the length of the change >= 0type - the type of event (DocumentEvent.EventType)**Since:** 1.4

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

### toString

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

Returns a string description of the change event.

**Overrides:**[toString](http://docs.google.com/javax/swing/undo/CompoundEdit.html#toString()) in class [CompoundEdit](http://docs.google.com/javax/swing/undo/CompoundEdit.html) **Returns:**a string

### addEdit

public boolean **addEdit**([UndoableEdit](http://docs.google.com/javax/swing/undo/UndoableEdit.html) anEdit)

Adds a document edit. If the number of edits crosses a threshold, this switches on a hashtable lookup for ElementChange implementations since access of these needs to be relatively quick.

**Specified by:**[addEdit](http://docs.google.com/javax/swing/undo/UndoableEdit.html#addEdit(javax.swing.undo.UndoableEdit)) in interface [UndoableEdit](http://docs.google.com/javax/swing/undo/UndoableEdit.html)**Overrides:**[addEdit](http://docs.google.com/javax/swing/undo/CompoundEdit.html#addEdit(javax.swing.undo.UndoableEdit)) in class [CompoundEdit](http://docs.google.com/javax/swing/undo/CompoundEdit.html) **Parameters:**anEdit - a document edit record **Returns:**true if the edit was added**See Also:**[UndoableEdit.addEdit(javax.swing.undo.UndoableEdit)](http://docs.google.com/javax/swing/undo/UndoableEdit.html#addEdit(javax.swing.undo.UndoableEdit))

### redo

public void **redo**()  
 throws [CannotRedoException](http://docs.google.com/javax/swing/undo/CannotRedoException.html)

Redoes a change.

**Specified by:**[redo](http://docs.google.com/javax/swing/undo/UndoableEdit.html#redo()) in interface [UndoableEdit](http://docs.google.com/javax/swing/undo/UndoableEdit.html)**Overrides:**[redo](http://docs.google.com/javax/swing/undo/CompoundEdit.html#redo()) in class [CompoundEdit](http://docs.google.com/javax/swing/undo/CompoundEdit.html) **Throws:** [CannotRedoException](http://docs.google.com/javax/swing/undo/CannotRedoException.html) - if the change cannot be redone**See Also:**[AbstractUndoableEdit.canRedo()](http://docs.google.com/javax/swing/undo/AbstractUndoableEdit.html#canRedo())

### undo

public void **undo**()  
 throws [CannotUndoException](http://docs.google.com/javax/swing/undo/CannotUndoException.html)

Undoes a change.

**Specified by:**[undo](http://docs.google.com/javax/swing/undo/UndoableEdit.html#undo()) in interface [UndoableEdit](http://docs.google.com/javax/swing/undo/UndoableEdit.html)**Overrides:**[undo](http://docs.google.com/javax/swing/undo/CompoundEdit.html#undo()) in class [CompoundEdit](http://docs.google.com/javax/swing/undo/CompoundEdit.html) **Throws:** [CannotUndoException](http://docs.google.com/javax/swing/undo/CannotUndoException.html) - if the change cannot be undone**See Also:**[AbstractUndoableEdit.canUndo()](http://docs.google.com/javax/swing/undo/AbstractUndoableEdit.html#canUndo())

### isSignificant

public boolean **isSignificant**()

DefaultDocument events are significant. If you wish to aggregate DefaultDocumentEvents to present them as a single edit to the user place them into a CompoundEdit.

**Specified by:**[isSignificant](http://docs.google.com/javax/swing/undo/UndoableEdit.html#isSignificant()) in interface [UndoableEdit](http://docs.google.com/javax/swing/undo/UndoableEdit.html)**Overrides:**[isSignificant](http://docs.google.com/javax/swing/undo/CompoundEdit.html#isSignificant()) in class [CompoundEdit](http://docs.google.com/javax/swing/undo/CompoundEdit.html) **Returns:**whether the event is significant for edit undo purposes**See Also:**[UndoableEdit.isSignificant()](http://docs.google.com/javax/swing/undo/UndoableEdit.html#isSignificant())

### getPresentationName

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

Provides a localized, human readable description of this edit suitable for use in, say, a change log.

**Specified by:**[getPresentationName](http://docs.google.com/javax/swing/undo/UndoableEdit.html#getPresentationName()) in interface [UndoableEdit](http://docs.google.com/javax/swing/undo/UndoableEdit.html)**Overrides:**[getPresentationName](http://docs.google.com/javax/swing/undo/CompoundEdit.html#getPresentationName()) in class [CompoundEdit](http://docs.google.com/javax/swing/undo/CompoundEdit.html) **Returns:**the description**See Also:**[AbstractUndoableEdit.getUndoPresentationName()](http://docs.google.com/javax/swing/undo/AbstractUndoableEdit.html#getUndoPresentationName()), [AbstractUndoableEdit.getRedoPresentationName()](http://docs.google.com/javax/swing/undo/AbstractUndoableEdit.html#getRedoPresentationName())

### getUndoPresentationName

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

Provides a localized, human readable description of the undoable form of this edit, e.g. for use as an Undo menu item. Typically derived from getDescription();

**Specified by:**[getUndoPresentationName](http://docs.google.com/javax/swing/undo/UndoableEdit.html#getUndoPresentationName()) in interface [UndoableEdit](http://docs.google.com/javax/swing/undo/UndoableEdit.html)**Overrides:**[getUndoPresentationName](http://docs.google.com/javax/swing/undo/CompoundEdit.html#getUndoPresentationName()) in class [CompoundEdit](http://docs.google.com/javax/swing/undo/CompoundEdit.html) **Returns:**the description**See Also:**[AbstractUndoableEdit.getPresentationName()](http://docs.google.com/javax/swing/undo/AbstractUndoableEdit.html#getPresentationName())

### getRedoPresentationName

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

Provides a localized, human readable description of the redoable form of this edit, e.g. for use as a Redo menu item. Typically derived from getPresentationName();

**Specified by:**[getRedoPresentationName](http://docs.google.com/javax/swing/undo/UndoableEdit.html#getRedoPresentationName()) in interface [UndoableEdit](http://docs.google.com/javax/swing/undo/UndoableEdit.html)**Overrides:**[getRedoPresentationName](http://docs.google.com/javax/swing/undo/CompoundEdit.html#getRedoPresentationName()) in class [CompoundEdit](http://docs.google.com/javax/swing/undo/CompoundEdit.html) **Returns:**the description**See Also:**[AbstractUndoableEdit.getPresentationName()](http://docs.google.com/javax/swing/undo/AbstractUndoableEdit.html#getPresentationName())

### getType

public [DocumentEvent.EventType](http://docs.google.com/javax/swing/event/DocumentEvent.EventType.html) **getType**()

Returns the type of event.

**Specified by:**[getType](http://docs.google.com/javax/swing/event/DocumentEvent.html#getType()) in interface [DocumentEvent](http://docs.google.com/javax/swing/event/DocumentEvent.html) **Returns:**the event type as a DocumentEvent.EventType**See Also:**[DocumentEvent.getType()](http://docs.google.com/javax/swing/event/DocumentEvent.html#getType())

### getOffset

public int **getOffset**()

Returns the offset within the document of the start of the change.

**Specified by:**[getOffset](http://docs.google.com/javax/swing/event/DocumentEvent.html#getOffset()) in interface [DocumentEvent](http://docs.google.com/javax/swing/event/DocumentEvent.html) **Returns:**the offset >= 0**See Also:**[DocumentEvent.getOffset()](http://docs.google.com/javax/swing/event/DocumentEvent.html#getOffset())

### getLength

public int **getLength**()

Returns the length of the change.

**Specified by:**[getLength](http://docs.google.com/javax/swing/event/DocumentEvent.html#getLength()) in interface [DocumentEvent](http://docs.google.com/javax/swing/event/DocumentEvent.html) **Returns:**the length >= 0**See Also:**[DocumentEvent.getLength()](http://docs.google.com/javax/swing/event/DocumentEvent.html#getLength())

### getDocument

public [Document](http://docs.google.com/javax/swing/text/Document.html) **getDocument**()

Gets the document that sourced the change event.

**Specified by:**[getDocument](http://docs.google.com/javax/swing/event/DocumentEvent.html#getDocument()) in interface [DocumentEvent](http://docs.google.com/javax/swing/event/DocumentEvent.html) **Returns:**the document**See Also:**[DocumentEvent.getDocument()](http://docs.google.com/javax/swing/event/DocumentEvent.html#getDocument())

### getChange

public [DocumentEvent.ElementChange](http://docs.google.com/javax/swing/event/DocumentEvent.ElementChange.html) **getChange**([Element](http://docs.google.com/javax/swing/text/Element.html) elem)

Gets the changes for an element.

**Specified by:**[getChange](http://docs.google.com/javax/swing/event/DocumentEvent.html#getChange(javax.swing.text.Element)) in interface [DocumentEvent](http://docs.google.com/javax/swing/event/DocumentEvent.html) **Parameters:**elem - the element **Returns:**the changes

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/AbstractDocument.DefaultDocumentEvent.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](#3dy6vkm) | [CONSTR](#4d34og8) | [METHOD](#2s8eyo1) | DETAIL: FIELD | [CONSTR](#lnxbz9) | [METHOD](#1ksv4uv) |

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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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