| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/AbstractUndoableEdit.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   [**NEXT CLASS**](http://docs.google.com/javax/swing/undo/CannotRedoException.html) | [**FRAMES**](http://docs.google.com/index.html?javax/swing/undo/AbstractUndoableEdit.html)    [**NO FRAMES**](http://docs.google.com/AbstractUndoableEdit.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#3znysh7) | [CONSTR](#2et92p0) | [METHOD](#tyjcwt) | DETAIL: [FIELD](#1t3h5sf) | [CONSTR](#17dp8vu) | [METHOD](#26in1rg) |

## **javax.swing.undo**

Class AbstractUndoableEdit

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

**All Implemented Interfaces:** [Serializable](http://docs.google.com/java/io/Serializable.html), [UndoableEdit](http://docs.google.com/javax/swing/undo/UndoableEdit.html) **Direct Known Subclasses:** [AbstractDocument.ElementEdit](http://docs.google.com/javax/swing/text/AbstractDocument.ElementEdit.html), [CompoundEdit](http://docs.google.com/javax/swing/undo/CompoundEdit.html), [DefaultStyledDocument.AttributeUndoableEdit](http://docs.google.com/javax/swing/text/DefaultStyledDocument.AttributeUndoableEdit.html), [StateEdit](http://docs.google.com/javax/swing/undo/StateEdit.html)

public class **AbstractUndoableEdit**extends [Object](http://docs.google.com/java/lang/Object.html)implements [UndoableEdit](http://docs.google.com/javax/swing/undo/UndoableEdit.html), [Serializable](http://docs.google.com/java/io/Serializable.html)

An abstract implementation of UndoableEdit, implementing simple responses to all boolean methods in that interface.

| **Field Summary** | |
| --- | --- |
| protected static [String](http://docs.google.com/java/lang/String.html) | [**RedoName**](http://docs.google.com/javax/swing/undo/AbstractUndoableEdit.html#RedoName)            String returned by getRedoPresentationName; as of Java 2 platform v1.3.1 this field is no longer used. |
| protected static [String](http://docs.google.com/java/lang/String.html) | [**UndoName**](http://docs.google.com/javax/swing/undo/AbstractUndoableEdit.html#UndoName)            String returned by getUndoPresentationName; as of Java 2 platform v1.3.1 this field is no longer used. |

| **Constructor Summary** | |
| --- | --- |
| [**AbstractUndoableEdit**](http://docs.google.com/javax/swing/undo/AbstractUndoableEdit.html#AbstractUndoableEdit())()            Creates an AbstractUndoableEdit which defaults hasBeenDone and alive to true. |

| **Method Summary** | |
| --- | --- |
| boolean | [**addEdit**](http://docs.google.com/javax/swing/undo/AbstractUndoableEdit.html#addEdit(javax.swing.undo.UndoableEdit))([UndoableEdit](http://docs.google.com/javax/swing/undo/UndoableEdit.html) anEdit)            This default implementation returns false. |
| boolean | [**canRedo**](http://docs.google.com/javax/swing/undo/AbstractUndoableEdit.html#canRedo())()            Returns true if this edit is alive and hasBeenDone is false. |
| boolean | [**canUndo**](http://docs.google.com/javax/swing/undo/AbstractUndoableEdit.html#canUndo())()            Returns true if this edit is alive and hasBeenDone is true. |
| void | [**die**](http://docs.google.com/javax/swing/undo/AbstractUndoableEdit.html#die())()            Sets alive to false. |
| [String](http://docs.google.com/java/lang/String.html) | [**getPresentationName**](http://docs.google.com/javax/swing/undo/AbstractUndoableEdit.html#getPresentationName())()            This default implementation returns "". |
| [String](http://docs.google.com/java/lang/String.html) | [**getRedoPresentationName**](http://docs.google.com/javax/swing/undo/AbstractUndoableEdit.html#getRedoPresentationName())()            Retreives the value from the defaults table with key AbstractUndoableEdit.redoText and returns that value followed by a space, followed by getPresentationName. |
| [String](http://docs.google.com/java/lang/String.html) | [**getUndoPresentationName**](http://docs.google.com/javax/swing/undo/AbstractUndoableEdit.html#getUndoPresentationName())()            Retreives the value from the defaults table with key AbstractUndoableEdit.undoText and returns that value followed by a space, followed by getPresentationName. |
| boolean | [**isSignificant**](http://docs.google.com/javax/swing/undo/AbstractUndoableEdit.html#isSignificant())()            This default implementation returns true. |
| void | [**redo**](http://docs.google.com/javax/swing/undo/AbstractUndoableEdit.html#redo())()            Throws CannotRedoException if canRedo returns false. |
| boolean | [**replaceEdit**](http://docs.google.com/javax/swing/undo/AbstractUndoableEdit.html#replaceEdit(javax.swing.undo.UndoableEdit))([UndoableEdit](http://docs.google.com/javax/swing/undo/UndoableEdit.html) anEdit)            This default implementation returns false. |
| [String](http://docs.google.com/java/lang/String.html) | [**toString**](http://docs.google.com/javax/swing/undo/AbstractUndoableEdit.html#toString())()            Returns a string that displays and identifies this object's properties. |
| void | [**undo**](http://docs.google.com/javax/swing/undo/AbstractUndoableEdit.html#undo())()            Throws CannotUndoException if canUndo returns false. |

| **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** |
| --- |

### UndoName

protected static final [String](http://docs.google.com/java/lang/String.html) **UndoName**

String returned by getUndoPresentationName; as of Java 2 platform v1.3.1 this field is no longer used. This value is now localized and comes from the defaults table with key AbstractUndoableEdit.undoText.

**See Also:**[UIDefaults](http://docs.google.com/javax/swing/UIDefaults.html), [Constant Field Values](http://docs.google.com/constant-values.html#javax.swing.undo.AbstractUndoableEdit.UndoName)

### RedoName

protected static final [String](http://docs.google.com/java/lang/String.html) **RedoName**

String returned by getRedoPresentationName; as of Java 2 platform v1.3.1 this field is no longer used. This value is now localized and comes from the defaults table with key AbstractUndoableEdit.redoText.

**See Also:**[UIDefaults](http://docs.google.com/javax/swing/UIDefaults.html), [Constant Field Values](http://docs.google.com/constant-values.html#javax.swing.undo.AbstractUndoableEdit.RedoName)

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

### AbstractUndoableEdit

public **AbstractUndoableEdit**()

Creates an AbstractUndoableEdit which defaults hasBeenDone and alive to true.

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

### die

public void **die**()

Sets alive to false. Note that this is a one way operation; dead edits cannot be resurrected. Sending undo or redo to a dead edit results in an exception being thrown.

Typically an edit is killed when it is consolidated by another edit's addEdit or replaceEdit method, or when it is dequeued from an UndoManager.

**Specified by:**[die](http://docs.google.com/javax/swing/undo/UndoableEdit.html#die()) in interface [UndoableEdit](http://docs.google.com/javax/swing/undo/UndoableEdit.html) **See Also:**[CompoundEdit.die()](http://docs.google.com/javax/swing/undo/CompoundEdit.html#die())

### undo

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

Throws CannotUndoException if canUndo returns false. Sets hasBeenDone to false. Subclasses should override to undo the operation represented by this edit. Override should begin with a call to super.

**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) **Throws:** [CannotUndoException](http://docs.google.com/javax/swing/undo/CannotUndoException.html) - if canUndo returns false**See Also:**[canUndo()](http://docs.google.com/javax/swing/undo/AbstractUndoableEdit.html#canUndo())

### canUndo

public boolean **canUndo**()

Returns true if this edit is alive and hasBeenDone is true.

**Specified by:**[canUndo](http://docs.google.com/javax/swing/undo/UndoableEdit.html#canUndo()) in interface [UndoableEdit](http://docs.google.com/javax/swing/undo/UndoableEdit.html) **Returns:**true if this edit is alive and hasBeenDone is true**See Also:**[die()](http://docs.google.com/javax/swing/undo/AbstractUndoableEdit.html#die()), [undo()](http://docs.google.com/javax/swing/undo/AbstractUndoableEdit.html#undo()), [redo()](http://docs.google.com/javax/swing/undo/AbstractUndoableEdit.html#redo())

### redo

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

Throws CannotRedoException if canRedo returns false. Sets hasBeenDone to true. Subclasses should override to redo the operation represented by this edit. Override should begin with a call to super.

**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) **Throws:** [CannotRedoException](http://docs.google.com/javax/swing/undo/CannotRedoException.html) - if canRedo returns false**See Also:**[canRedo()](http://docs.google.com/javax/swing/undo/AbstractUndoableEdit.html#canRedo())

### canRedo

public boolean **canRedo**()

Returns true if this edit is alive and hasBeenDone is false.

**Specified by:**[canRedo](http://docs.google.com/javax/swing/undo/UndoableEdit.html#canRedo()) in interface [UndoableEdit](http://docs.google.com/javax/swing/undo/UndoableEdit.html) **Returns:**true if this edit is alive and hasBeenDone is false**See Also:**[die()](http://docs.google.com/javax/swing/undo/AbstractUndoableEdit.html#die()), [undo()](http://docs.google.com/javax/swing/undo/AbstractUndoableEdit.html#undo()), [redo()](http://docs.google.com/javax/swing/undo/AbstractUndoableEdit.html#redo())

### addEdit

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

This default implementation returns false.

**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) **Parameters:**anEdit - the edit to be added **Returns:**false**See Also:**[UndoableEdit.addEdit(javax.swing.undo.UndoableEdit)](http://docs.google.com/javax/swing/undo/UndoableEdit.html#addEdit(javax.swing.undo.UndoableEdit))

### replaceEdit

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

This default implementation returns false.

**Specified by:**[replaceEdit](http://docs.google.com/javax/swing/undo/UndoableEdit.html#replaceEdit(javax.swing.undo.UndoableEdit)) in interface [UndoableEdit](http://docs.google.com/javax/swing/undo/UndoableEdit.html) **Parameters:**anEdit - the edit to replace **Returns:**false**See Also:**[UndoableEdit.replaceEdit(javax.swing.undo.UndoableEdit)](http://docs.google.com/javax/swing/undo/UndoableEdit.html#replaceEdit(javax.swing.undo.UndoableEdit))

### isSignificant

public boolean **isSignificant**()

This default implementation returns true.

**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) **Returns:**true**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**()

This default implementation returns "". Used by getUndoPresentationName and getRedoPresentationName to construct the strings they return. Subclasses should override to return an appropriate description of the operation this edit represents.

**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) **Returns:**the empty string ""**See Also:**[getUndoPresentationName()](http://docs.google.com/javax/swing/undo/AbstractUndoableEdit.html#getUndoPresentationName()), [getRedoPresentationName()](http://docs.google.com/javax/swing/undo/AbstractUndoableEdit.html#getRedoPresentationName())

### getUndoPresentationName

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

Retreives the value from the defaults table with key AbstractUndoableEdit.undoText and returns that value followed by a space, followed by getPresentationName. If getPresentationName returns "", then the defaults value is returned alone.

**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) **Returns:**the value from the defaults table with key AbstractUndoableEdit.undoText, followed by a space, followed by getPresentationName unless getPresentationName is "" in which case, the defaults value is returned alone.**See Also:**[getPresentationName()](http://docs.google.com/javax/swing/undo/AbstractUndoableEdit.html#getPresentationName())

### getRedoPresentationName

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

Retreives the value from the defaults table with key AbstractUndoableEdit.redoText and returns that value followed by a space, followed by getPresentationName. If getPresentationName returns "", then the defaults value is returned alone.

**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) **Returns:**the value from the defaults table with key AbstractUndoableEdit.redoText, followed by a space, followed by getPresentationName unless getPresentationName is "" in which case, the defaults value is returned alone.**See Also:**[getPresentationName()](http://docs.google.com/javax/swing/undo/AbstractUndoableEdit.html#getPresentationName())

### toString

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

Returns a string that displays and identifies this object's properties.

**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 this object

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/AbstractUndoableEdit.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   [**NEXT CLASS**](http://docs.google.com/javax/swing/undo/CannotRedoException.html) | [**FRAMES**](http://docs.google.com/index.html?javax/swing/undo/AbstractUndoableEdit.html)    [**NO FRAMES**](http://docs.google.com/AbstractUndoableEdit.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#3znysh7) | [CONSTR](#2et92p0) | [METHOD](#tyjcwt) | DETAIL: [FIELD](#1t3h5sf) | [CONSTR](#17dp8vu) | [METHOD](#26in1rg) |

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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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