| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/StateEdit.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/undo/CompoundEdit.html)   [**NEXT CLASS**](http://docs.google.com/javax/swing/undo/StateEditable.html) | [**FRAMES**](http://docs.google.com/index.html?javax/swing/undo/StateEdit.html)    [**NO FRAMES**](http://docs.google.com/StateEdit.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#3znysh7) | [CONSTR](#tyjcwt) | [METHOD](#3dy6vkm) | DETAIL: [FIELD](#2s8eyo1) | [CONSTR](#1ksv4uv) | [METHOD](#z337ya) |

## **javax.swing.undo**

Class StateEdit

[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.StateEdit**

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

public class **StateEdit**extends [AbstractUndoableEdit](http://docs.google.com/javax/swing/undo/AbstractUndoableEdit.html)

StateEdit is a general edit for objects that change state. Objects being edited must conform to the StateEditable interface.

This edit class works by asking an object to store it's state in Hashtables before and after editing occurs. Upon undo or redo the object is told to restore it's state from these Hashtables.

A state edit is used as follows:

// Create the edit during the "before" state of the object  
 StateEdit newEdit = new StateEdit(myObject);  
 // Modify the object  
 myObject.someStateModifyingMethod();  
 // "end" the edit when you are done modifying the object  
 newEdit.end();

*Note that when a StateEdit ends, it removes redundant state from the Hashtables - A state Hashtable is not guaranteed to contain all keys/values placed into it when the state is stored!*

**See Also:**[StateEditable](http://docs.google.com/javax/swing/undo/StateEditable.html)

| **Field Summary** | |
| --- | --- |
| protected  [StateEditable](http://docs.google.com/javax/swing/undo/StateEditable.html) | [**object**](http://docs.google.com/javax/swing/undo/StateEdit.html#object)            The object being edited |
| protected  [Hashtable](http://docs.google.com/java/util/Hashtable.html)<[Object](http://docs.google.com/java/lang/Object.html),[Object](http://docs.google.com/java/lang/Object.html)> | [**postState**](http://docs.google.com/javax/swing/undo/StateEdit.html#postState)            The state information after the edit |
| protected  [Hashtable](http://docs.google.com/java/util/Hashtable.html)<[Object](http://docs.google.com/java/lang/Object.html),[Object](http://docs.google.com/java/lang/Object.html)> | [**preState**](http://docs.google.com/javax/swing/undo/StateEdit.html#preState)            The state information prior to the edit |
| protected static [String](http://docs.google.com/java/lang/String.html) | [**RCSID**](http://docs.google.com/javax/swing/undo/StateEdit.html#RCSID) |
| protected  [String](http://docs.google.com/java/lang/String.html) | [**undoRedoName**](http://docs.google.com/javax/swing/undo/StateEdit.html#undoRedoName)            The undo/redo presentation name |

| **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** | |
| --- | --- |
| [**StateEdit**](http://docs.google.com/javax/swing/undo/StateEdit.html#StateEdit(javax.swing.undo.StateEditable))([StateEditable](http://docs.google.com/javax/swing/undo/StateEditable.html) anObject)            Create and return a new StateEdit. |
| [**StateEdit**](http://docs.google.com/javax/swing/undo/StateEdit.html#StateEdit(javax.swing.undo.StateEditable,%20java.lang.String))([StateEditable](http://docs.google.com/javax/swing/undo/StateEditable.html) anObject, [String](http://docs.google.com/java/lang/String.html) name)            Create and return a new StateEdit with a presentation name. |

| **Method Summary** | |
| --- | --- |
| void | [**end**](http://docs.google.com/javax/swing/undo/StateEdit.html#end())()            Gets the post-edit state of the StateEditable object and ends the edit. |
| [String](http://docs.google.com/java/lang/String.html) | [**getPresentationName**](http://docs.google.com/javax/swing/undo/StateEdit.html#getPresentationName())()            Gets the presentation name for this edit |
| protected  void | [**init**](http://docs.google.com/javax/swing/undo/StateEdit.html#init(javax.swing.undo.StateEditable,%20java.lang.String))([StateEditable](http://docs.google.com/javax/swing/undo/StateEditable.html) anObject, [String](http://docs.google.com/java/lang/String.html) name) |
| void | [**redo**](http://docs.google.com/javax/swing/undo/StateEdit.html#redo())()            Tells the edited object to apply the state after the edit |
| protected  void | [**removeRedundantState**](http://docs.google.com/javax/swing/undo/StateEdit.html#removeRedundantState())()            Remove redundant key/values in state hashtables. |
| void | [**undo**](http://docs.google.com/javax/swing/undo/StateEdit.html#undo())()            Tells the edited object to apply the state prior to the edit |

| **Methods inherited from class javax.swing.undo.**[**AbstractUndoableEdit**](http://docs.google.com/javax/swing/undo/AbstractUndoableEdit.html) |
| --- |
| [addEdit](http://docs.google.com/javax/swing/undo/AbstractUndoableEdit.html#addEdit(javax.swing.undo.UndoableEdit)), [canRedo](http://docs.google.com/javax/swing/undo/AbstractUndoableEdit.html#canRedo()), [canUndo](http://docs.google.com/javax/swing/undo/AbstractUndoableEdit.html#canUndo()), [die](http://docs.google.com/javax/swing/undo/AbstractUndoableEdit.html#die()), [getRedoPresentationName](http://docs.google.com/javax/swing/undo/AbstractUndoableEdit.html#getRedoPresentationName()), [getUndoPresentationName](http://docs.google.com/javax/swing/undo/AbstractUndoableEdit.html#getUndoPresentationName()), [isSignificant](http://docs.google.com/javax/swing/undo/AbstractUndoableEdit.html#isSignificant()), [replaceEdit](http://docs.google.com/javax/swing/undo/AbstractUndoableEdit.html#replaceEdit(javax.swing.undo.UndoableEdit)), [toString](http://docs.google.com/javax/swing/undo/AbstractUndoableEdit.html#toString()) |

| **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** |
| --- |

### RCSID

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

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

### object

protected [StateEditable](http://docs.google.com/javax/swing/undo/StateEditable.html) **object**

The object being edited

### preState

protected [Hashtable](http://docs.google.com/java/util/Hashtable.html)<[Object](http://docs.google.com/java/lang/Object.html),[Object](http://docs.google.com/java/lang/Object.html)> **preState**

The state information prior to the edit

### postState

protected [Hashtable](http://docs.google.com/java/util/Hashtable.html)<[Object](http://docs.google.com/java/lang/Object.html),[Object](http://docs.google.com/java/lang/Object.html)> **postState**

The state information after the edit

### undoRedoName

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

The undo/redo presentation name

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

### StateEdit

public **StateEdit**([StateEditable](http://docs.google.com/javax/swing/undo/StateEditable.html) anObject)

Create and return a new StateEdit.

**Parameters:**anObject - The object to watch for changing state**See Also:**[StateEdit](http://docs.google.com/javax/swing/undo/StateEdit.html)

### StateEdit

public **StateEdit**([StateEditable](http://docs.google.com/javax/swing/undo/StateEditable.html) anObject,  
 [String](http://docs.google.com/java/lang/String.html) name)

Create and return a new StateEdit with a presentation name.

**Parameters:**anObject - The object to watch for changing statename - The presentation name to be used for this edit**See Also:**[StateEdit](http://docs.google.com/javax/swing/undo/StateEdit.html)

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

### init

protected void **init**([StateEditable](http://docs.google.com/javax/swing/undo/StateEditable.html) anObject,  
 [String](http://docs.google.com/java/lang/String.html) name)

### end

public void **end**()

Gets the post-edit state of the StateEditable object and ends the edit.

### undo

public void **undo**()

Tells the edited object to apply the state prior to the edit

**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/AbstractUndoableEdit.html#undo()) in class [AbstractUndoableEdit](http://docs.google.com/javax/swing/undo/AbstractUndoableEdit.html) **See Also:**[AbstractUndoableEdit.canUndo()](http://docs.google.com/javax/swing/undo/AbstractUndoableEdit.html#canUndo())

### redo

public void **redo**()

Tells the edited object to apply the state after the edit

**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/AbstractUndoableEdit.html#redo()) in class [AbstractUndoableEdit](http://docs.google.com/javax/swing/undo/AbstractUndoableEdit.html) **See Also:**[AbstractUndoableEdit.canRedo()](http://docs.google.com/javax/swing/undo/AbstractUndoableEdit.html#canRedo())

### getPresentationName

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

Gets the presentation name for this edit

**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/AbstractUndoableEdit.html#getPresentationName()) in class [AbstractUndoableEdit](http://docs.google.com/javax/swing/undo/AbstractUndoableEdit.html) **Returns:**the empty string ""**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())

### removeRedundantState

protected void **removeRedundantState**()

Remove redundant key/values in state hashtables.

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/StateEdit.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/undo/CompoundEdit.html)   [**NEXT CLASS**](http://docs.google.com/javax/swing/undo/StateEditable.html) | [**FRAMES**](http://docs.google.com/index.html?javax/swing/undo/StateEdit.html)    [**NO FRAMES**](http://docs.google.com/StateEdit.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#3znysh7) | [CONSTR](#tyjcwt) | [METHOD](#3dy6vkm) | DETAIL: [FIELD](#2s8eyo1) | [CONSTR](#1ksv4uv) | [METHOD](#z337ya) |

[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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