| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/DefaultSingleSelectionModel.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/DefaultRowSorter.ModelWrapper.html)   [**NEXT CLASS**](http://docs.google.com/javax/swing/DesktopManager.html) | [**FRAMES**](http://docs.google.com/index.html?javax/swing/DefaultSingleSelectionModel.html)    [**NO FRAMES**](http://docs.google.com/DefaultSingleSelectionModel.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**

Class DefaultSingleSelectionModel

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

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

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

A generic implementation of SingleSelectionModel.

**Warning:** Serialized objects of this class will not be compatible with future Swing releases. The current serialization support is appropriate for short term storage or RMI between applications running the same version of Swing. As of 1.4, support for long term storage of all JavaBeansTM has been added to the java.beans package. Please see [XMLEncoder](http://docs.google.com/java/beans/XMLEncoder.html).

| **Field Summary** | |
| --- | --- |
| protected  [ChangeEvent](http://docs.google.com/javax/swing/event/ChangeEvent.html) | [**changeEvent**](http://docs.google.com/javax/swing/DefaultSingleSelectionModel.html#changeEvent) |
| protected  [EventListenerList](http://docs.google.com/javax/swing/event/EventListenerList.html) | [**listenerList**](http://docs.google.com/javax/swing/DefaultSingleSelectionModel.html#listenerList)            The collection of registered listeners |

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

| **Method Summary** | |
| --- | --- |
| void | [**addChangeListener**](http://docs.google.com/javax/swing/DefaultSingleSelectionModel.html#addChangeListener(javax.swing.event.ChangeListener))([ChangeListener](http://docs.google.com/javax/swing/event/ChangeListener.html) l)            Adds a ChangeListener to the button. |
| void | [**clearSelection**](http://docs.google.com/javax/swing/DefaultSingleSelectionModel.html#clearSelection())()            Clears the selection (to -1). |
| protected  void | [**fireStateChanged**](http://docs.google.com/javax/swing/DefaultSingleSelectionModel.html#fireStateChanged())()            Notifies all listeners that have registered interest for notification on this event type. |
| [ChangeListener](http://docs.google.com/javax/swing/event/ChangeListener.html)[] | [**getChangeListeners**](http://docs.google.com/javax/swing/DefaultSingleSelectionModel.html#getChangeListeners())()            Returns an array of all the change listeners registered on this DefaultSingleSelectionModel. |
| | <T extends [EventListener](http://docs.google.com/java/util/EventListener.html)>  T[] | | --- | | [**getListeners**](http://docs.google.com/javax/swing/DefaultSingleSelectionModel.html#getListeners(java.lang.Class))([Class](http://docs.google.com/java/lang/Class.html)<T> listenerType)            Returns an array of all the objects currently registered as *Foo*Listeners upon this model. |
| int | [**getSelectedIndex**](http://docs.google.com/javax/swing/DefaultSingleSelectionModel.html#getSelectedIndex())()            Returns the model's selection. |
| boolean | [**isSelected**](http://docs.google.com/javax/swing/DefaultSingleSelectionModel.html#isSelected())()            Returns true if the selection model currently has a selected value. |
| void | [**removeChangeListener**](http://docs.google.com/javax/swing/DefaultSingleSelectionModel.html#removeChangeListener(javax.swing.event.ChangeListener))([ChangeListener](http://docs.google.com/javax/swing/event/ChangeListener.html) l)            Removes a ChangeListener from the button. |
| void | [**setSelectedIndex**](http://docs.google.com/javax/swing/DefaultSingleSelectionModel.html#setSelectedIndex(int))(int index)            Sets the model's selected index to *index*. |

| **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** |
| --- |

### changeEvent

protected transient [ChangeEvent](http://docs.google.com/javax/swing/event/ChangeEvent.html) **changeEvent**

### listenerList

protected [EventListenerList](http://docs.google.com/javax/swing/event/EventListenerList.html) **listenerList**

The collection of registered listeners

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

### DefaultSingleSelectionModel

public **DefaultSingleSelectionModel**()

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

### getSelectedIndex

public int **getSelectedIndex**()

**Description copied from interface:** [**SingleSelectionModel**](http://docs.google.com/javax/swing/SingleSelectionModel.html#getSelectedIndex()) Returns the model's selection.

**Specified by:**[getSelectedIndex](http://docs.google.com/javax/swing/SingleSelectionModel.html#getSelectedIndex()) in interface [SingleSelectionModel](http://docs.google.com/javax/swing/SingleSelectionModel.html) **Returns:**the model's selection, or -1 if there is no selection**See Also:**[SingleSelectionModel.setSelectedIndex(int)](http://docs.google.com/javax/swing/SingleSelectionModel.html#setSelectedIndex(int))

### setSelectedIndex

public void **setSelectedIndex**(int index)

**Description copied from interface:** [**SingleSelectionModel**](http://docs.google.com/javax/swing/SingleSelectionModel.html#setSelectedIndex(int)) Sets the model's selected index to *index*. Notifies any listeners if the model changes

**Specified by:**[setSelectedIndex](http://docs.google.com/javax/swing/SingleSelectionModel.html#setSelectedIndex(int)) in interface [SingleSelectionModel](http://docs.google.com/javax/swing/SingleSelectionModel.html) **Parameters:**index - an int specifying the model selection**See Also:**[SingleSelectionModel.getSelectedIndex()](http://docs.google.com/javax/swing/SingleSelectionModel.html#getSelectedIndex()), [SingleSelectionModel.addChangeListener(javax.swing.event.ChangeListener)](http://docs.google.com/javax/swing/SingleSelectionModel.html#addChangeListener(javax.swing.event.ChangeListener))

### clearSelection

public void **clearSelection**()

**Description copied from interface:** [**SingleSelectionModel**](http://docs.google.com/javax/swing/SingleSelectionModel.html#clearSelection()) Clears the selection (to -1).

**Specified by:**[clearSelection](http://docs.google.com/javax/swing/SingleSelectionModel.html#clearSelection()) in interface [SingleSelectionModel](http://docs.google.com/javax/swing/SingleSelectionModel.html)

### isSelected

public boolean **isSelected**()

**Description copied from interface:** [**SingleSelectionModel**](http://docs.google.com/javax/swing/SingleSelectionModel.html#isSelected()) Returns true if the selection model currently has a selected value.

**Specified by:**[isSelected](http://docs.google.com/javax/swing/SingleSelectionModel.html#isSelected()) in interface [SingleSelectionModel](http://docs.google.com/javax/swing/SingleSelectionModel.html) **Returns:**true if a value is currently selected

### addChangeListener

public void **addChangeListener**([ChangeListener](http://docs.google.com/javax/swing/event/ChangeListener.html) l)

Adds a ChangeListener to the button.

**Specified by:**[addChangeListener](http://docs.google.com/javax/swing/SingleSelectionModel.html#addChangeListener(javax.swing.event.ChangeListener)) in interface [SingleSelectionModel](http://docs.google.com/javax/swing/SingleSelectionModel.html) **Parameters:**l - the ChangeListener to add

### removeChangeListener

public void **removeChangeListener**([ChangeListener](http://docs.google.com/javax/swing/event/ChangeListener.html) l)

Removes a ChangeListener from the button.

**Specified by:**[removeChangeListener](http://docs.google.com/javax/swing/SingleSelectionModel.html#removeChangeListener(javax.swing.event.ChangeListener)) in interface [SingleSelectionModel](http://docs.google.com/javax/swing/SingleSelectionModel.html) **Parameters:**l - the ChangeListener to remove

### getChangeListeners

public [ChangeListener](http://docs.google.com/javax/swing/event/ChangeListener.html)[] **getChangeListeners**()

Returns an array of all the change listeners registered on this DefaultSingleSelectionModel.

**Returns:**all of this model's ChangeListeners or an empty array if no change listeners are currently registered**Since:** 1.4 **See Also:**[addChangeListener(javax.swing.event.ChangeListener)](http://docs.google.com/javax/swing/DefaultSingleSelectionModel.html#addChangeListener(javax.swing.event.ChangeListener)), [removeChangeListener(javax.swing.event.ChangeListener)](http://docs.google.com/javax/swing/DefaultSingleSelectionModel.html#removeChangeListener(javax.swing.event.ChangeListener))

### fireStateChanged

protected void **fireStateChanged**()

Notifies all listeners that have registered interest for notification on this event type. The event instance is created lazily.

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

### getListeners

public <T extends [EventListener](http://docs.google.com/java/util/EventListener.html)> T[] **getListeners**([Class](http://docs.google.com/java/lang/Class.html)<T> listenerType)

Returns an array of all the objects currently registered as *Foo*Listeners upon this model. *Foo*Listeners are registered using the add*Foo*Listener method.

You can specify the listenerType argument with a class literal, such as *Foo*Listener.class. For example, you can query a DefaultSingleSelectionModel instance m for its change listeners with the following code:

ChangeListener[] cls = (ChangeListener[])(m.getListeners(ChangeListener.class));

If no such listeners exist, this method returns an empty array.

**Parameters:**listenerType - the type of listeners requested; this parameter should specify an interface that descends from java.util.EventListener **Returns:**an array of all objects registered as *Foo*Listeners on this model, or an empty array if no such listeners have been added **Throws:** [ClassCastException](http://docs.google.com/java/lang/ClassCastException.html) - if listenerType doesn't specify a class or interface that implements java.util.EventListener**Since:** 1.3 **See Also:**[getChangeListeners()](http://docs.google.com/javax/swing/DefaultSingleSelectionModel.html#getChangeListeners())

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/DefaultSingleSelectionModel.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/DefaultRowSorter.ModelWrapper.html)   [**NEXT CLASS**](http://docs.google.com/javax/swing/DesktopManager.html) | [**FRAMES**](http://docs.google.com/index.html?javax/swing/DefaultSingleSelectionModel.html)    [**NO FRAMES**](http://docs.google.com/DefaultSingleSelectionModel.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
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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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