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

## **javax.swing**

Interface SpinnerModel

**All Known Implementing Classes:** [AbstractSpinnerModel](http://docs.google.com/javax/swing/AbstractSpinnerModel.html), [SpinnerDateModel](http://docs.google.com/javax/swing/SpinnerDateModel.html), [SpinnerListModel](http://docs.google.com/javax/swing/SpinnerListModel.html), [SpinnerNumberModel](http://docs.google.com/javax/swing/SpinnerNumberModel.html)

public interface **SpinnerModel**

A model for a potentially unbounded sequence of object values. This model is similar to ListModel however there are some important differences:

* The number of sequence elements isn't neccessarily bounded.
* The model doesn't support indexed random access to sequence elements. Only three sequence values are accessible at a time: current, next and previous.
* The current sequence element, can be set.

A SpinnerModel has three properties, only the first is read/write.

value The current element of the sequence. nextValue The following element or null if value is the last element of the sequence. previousValue The preceeding element or null if value is the first element of the sequence. When the the value property changes, ChangeListeners are notified. SpinnerModel may choose to notify the ChangeListeners under other circumstances.

**Since:** 1.4 **See Also:**[JSpinner](http://docs.google.com/javax/swing/JSpinner.html), [AbstractSpinnerModel](http://docs.google.com/javax/swing/AbstractSpinnerModel.html), [SpinnerListModel](http://docs.google.com/javax/swing/SpinnerListModel.html), [SpinnerNumberModel](http://docs.google.com/javax/swing/SpinnerNumberModel.html), [SpinnerDateModel](http://docs.google.com/javax/swing/SpinnerDateModel.html)

| **Method Summary** | |
| --- | --- |
| void | [**addChangeListener**](http://docs.google.com/javax/swing/SpinnerModel.html#addChangeListener(javax.swing.event.ChangeListener))([ChangeListener](http://docs.google.com/javax/swing/event/ChangeListener.html) l)            Adds a ChangeListener to the model's listener list. |
| [Object](http://docs.google.com/java/lang/Object.html) | [**getNextValue**](http://docs.google.com/javax/swing/SpinnerModel.html#getNextValue())()            Return the object in the sequence that comes after the object returned by getValue(). |
| [Object](http://docs.google.com/java/lang/Object.html) | [**getPreviousValue**](http://docs.google.com/javax/swing/SpinnerModel.html#getPreviousValue())()            Return the object in the sequence that comes before the object returned by getValue(). |
| [Object](http://docs.google.com/java/lang/Object.html) | [**getValue**](http://docs.google.com/javax/swing/SpinnerModel.html#getValue())()            The *current element* of the sequence. |
| void | [**removeChangeListener**](http://docs.google.com/javax/swing/SpinnerModel.html#removeChangeListener(javax.swing.event.ChangeListener))([ChangeListener](http://docs.google.com/javax/swing/event/ChangeListener.html) l)            Removes a ChangeListener from the model's listener list. |
| void | [**setValue**](http://docs.google.com/javax/swing/SpinnerModel.html#setValue(java.lang.Object))([Object](http://docs.google.com/java/lang/Object.html) value)            Changes current value of the model, typically this value is displayed by the editor part of a JSpinner. |

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

### getValue

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

The *current element* of the sequence. This element is usually displayed by the editor part of a JSpinner.

**Returns:**the current spinner value.**See Also:**[setValue(java.lang.Object)](http://docs.google.com/javax/swing/SpinnerModel.html#setValue(java.lang.Object))

### setValue

void **setValue**([Object](http://docs.google.com/java/lang/Object.html) value)

Changes current value of the model, typically this value is displayed by the editor part of a JSpinner. If the SpinnerModel implementation doesn't support the specified value then an IllegalArgumentException is thrown. For example a SpinnerModel for numbers might only support values that are integer multiples of ten. In that case, model.setValue(new Number(11)) would throw an exception.

**Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - if value isn't allowed**See Also:**[getValue()](http://docs.google.com/javax/swing/SpinnerModel.html#getValue())

### getNextValue

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

Return the object in the sequence that comes after the object returned by getValue(). If the end of the sequence has been reached then return null. Calling this method does not effect value.

**Returns:**the next legal value or null if one doesn't exist**See Also:**[getValue()](http://docs.google.com/javax/swing/SpinnerModel.html#getValue()), [getPreviousValue()](http://docs.google.com/javax/swing/SpinnerModel.html#getPreviousValue())

### getPreviousValue

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

Return the object in the sequence that comes before the object returned by getValue(). If the end of the sequence has been reached then return null. Calling this method does not effect value.

**Returns:**the previous legal value or null if one doesn't exist**See Also:**[getValue()](http://docs.google.com/javax/swing/SpinnerModel.html#getValue()), [getNextValue()](http://docs.google.com/javax/swing/SpinnerModel.html#getNextValue())

### addChangeListener

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

Adds a ChangeListener to the model's listener list. The ChangeListeners must be notified when models value changes.

**Parameters:**l - the ChangeListener to add**See Also:**[removeChangeListener(javax.swing.event.ChangeListener)](http://docs.google.com/javax/swing/SpinnerModel.html#removeChangeListener(javax.swing.event.ChangeListener))

### removeChangeListener

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

Removes a ChangeListener from the model's listener list.

**Parameters:**l - the ChangeListener to remove**See Also:**[addChangeListener(javax.swing.event.ChangeListener)](http://docs.google.com/javax/swing/SpinnerModel.html#addChangeListener(javax.swing.event.ChangeListener))

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