| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/Adjustable.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/java/awt/ActiveEvent.html)   [**NEXT CLASS**](http://docs.google.com/java/awt/AlphaComposite.html) | [**FRAMES**](http://docs.google.com/index.html?java/awt/Adjustable.html)    [**NO FRAMES**](http://docs.google.com/Adjustable.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#3znysh7) | CONSTR | [METHOD](#2et92p0) | DETAIL: [FIELD](#tyjcwt) | CONSTR | [METHOD](#2s8eyo1) |

## **java.awt**

Interface Adjustable

**All Known Implementing Classes:** [JScrollBar](http://docs.google.com/javax/swing/JScrollBar.html), [JScrollPane.ScrollBar](http://docs.google.com/javax/swing/JScrollPane.ScrollBar.html), [Scrollbar](http://docs.google.com/java/awt/Scrollbar.html), [ScrollPaneAdjustable](http://docs.google.com/java/awt/ScrollPaneAdjustable.html)

public interface **Adjustable**

The interface for objects which have an adjustable numeric value contained within a bounded range of values.

| **Field Summary** | |
| --- | --- |
| static int | [**HORIZONTAL**](http://docs.google.com/java/awt/Adjustable.html#HORIZONTAL)            Indicates that the Adjustable has horizontal orientation. |
| static int | [**NO\_ORIENTATION**](http://docs.google.com/java/awt/Adjustable.html#NO_ORIENTATION)            Indicates that the Adjustable has no orientation. |
| static int | [**VERTICAL**](http://docs.google.com/java/awt/Adjustable.html#VERTICAL)            Indicates that the Adjustable has vertical orientation. |

| **Method Summary** | |
| --- | --- |
| void | [**addAdjustmentListener**](http://docs.google.com/java/awt/Adjustable.html#addAdjustmentListener(java.awt.event.AdjustmentListener))([AdjustmentListener](http://docs.google.com/java/awt/event/AdjustmentListener.html) l)            Adds a listener to receive adjustment events when the value of the adjustable object changes. |
| int | [**getBlockIncrement**](http://docs.google.com/java/awt/Adjustable.html#getBlockIncrement())()            Gets the block value increment for the adjustable object. |
| int | [**getMaximum**](http://docs.google.com/java/awt/Adjustable.html#getMaximum())()            Gets the maximum value of the adjustable object. |
| int | [**getMinimum**](http://docs.google.com/java/awt/Adjustable.html#getMinimum())()            Gets the minimum value of the adjustable object. |
| int | [**getOrientation**](http://docs.google.com/java/awt/Adjustable.html#getOrientation())()            Gets the orientation of the adjustable object. |
| int | [**getUnitIncrement**](http://docs.google.com/java/awt/Adjustable.html#getUnitIncrement())()            Gets the unit value increment for the adjustable object. |
| int | [**getValue**](http://docs.google.com/java/awt/Adjustable.html#getValue())()            Gets the current value of the adjustable object. |
| int | [**getVisibleAmount**](http://docs.google.com/java/awt/Adjustable.html#getVisibleAmount())()            Gets the length of the proportional indicator. |
| void | [**removeAdjustmentListener**](http://docs.google.com/java/awt/Adjustable.html#removeAdjustmentListener(java.awt.event.AdjustmentListener))([AdjustmentListener](http://docs.google.com/java/awt/event/AdjustmentListener.html) l)            Removes an adjustment listener. |
| void | [**setBlockIncrement**](http://docs.google.com/java/awt/Adjustable.html#setBlockIncrement(int))(int b)            Sets the block value increment for the adjustable object. |
| void | [**setMaximum**](http://docs.google.com/java/awt/Adjustable.html#setMaximum(int))(int max)            Sets the maximum value of the adjustable object. |
| void | [**setMinimum**](http://docs.google.com/java/awt/Adjustable.html#setMinimum(int))(int min)            Sets the minimum value of the adjustable object. |
| void | [**setUnitIncrement**](http://docs.google.com/java/awt/Adjustable.html#setUnitIncrement(int))(int u)            Sets the unit value increment for the adjustable object. |
| void | [**setValue**](http://docs.google.com/java/awt/Adjustable.html#setValue(int))(int v)            Sets the current value of the adjustable object. |
| void | [**setVisibleAmount**](http://docs.google.com/java/awt/Adjustable.html#setVisibleAmount(int))(int v)            Sets the length of the proportional indicator of the adjustable object. |

| **Field Detail** |
| --- |

### HORIZONTAL

static final int **HORIZONTAL**

Indicates that the Adjustable has horizontal orientation.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.Adjustable.HORIZONTAL)

### VERTICAL

static final int **VERTICAL**

Indicates that the Adjustable has vertical orientation.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.Adjustable.VERTICAL)

### NO\_ORIENTATION

static final int **NO\_ORIENTATION**

Indicates that the Adjustable has no orientation.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.Adjustable.NO_ORIENTATION)

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

### getOrientation

int **getOrientation**()

Gets the orientation of the adjustable object.

**Returns:**the orientation of the adjustable object; either HORIZONTAL, VERTICAL, or NO\_ORIENTATION

### setMinimum

void **setMinimum**(int min)

Sets the minimum value of the adjustable object.

**Parameters:**min - the minimum value

### getMinimum

int **getMinimum**()

Gets the minimum value of the adjustable object.

**Returns:**the minimum value of the adjustable object

### setMaximum

void **setMaximum**(int max)

Sets the maximum value of the adjustable object.

**Parameters:**max - the maximum value

### getMaximum

int **getMaximum**()

Gets the maximum value of the adjustable object.

**Returns:**the maximum value of the adjustable object

### setUnitIncrement

void **setUnitIncrement**(int u)

Sets the unit value increment for the adjustable object.

**Parameters:**u - the unit increment

### getUnitIncrement

int **getUnitIncrement**()

Gets the unit value increment for the adjustable object.

**Returns:**the unit value increment for the adjustable object

### setBlockIncrement

void **setBlockIncrement**(int b)

Sets the block value increment for the adjustable object.

**Parameters:**b - the block increment

### getBlockIncrement

int **getBlockIncrement**()

Gets the block value increment for the adjustable object.

**Returns:**the block value increment for the adjustable object

### setVisibleAmount

void **setVisibleAmount**(int v)

Sets the length of the proportional indicator of the adjustable object.

**Parameters:**v - the length of the indicator

### getVisibleAmount

int **getVisibleAmount**()

Gets the length of the proportional indicator.

**Returns:**the length of the proportional indicator

### setValue

void **setValue**(int v)

Sets the current value of the adjustable object. If the value supplied is less than minimum or greater than maximum - visibleAmount, then one of those values is substituted, as appropriate.

Calling this method does not fire an AdjustmentEvent.

**Parameters:**v - the current value, between minimum and maximum - visibleAmount

### getValue

int **getValue**()

Gets the current value of the adjustable object.

**Returns:**the current value of the adjustable object

### addAdjustmentListener

void **addAdjustmentListener**([AdjustmentListener](http://docs.google.com/java/awt/event/AdjustmentListener.html) l)

Adds a listener to receive adjustment events when the value of the adjustable object changes.

**Parameters:**l - the listener to receive events**See Also:**[AdjustmentEvent](http://docs.google.com/java/awt/event/AdjustmentEvent.html)

### removeAdjustmentListener

void **removeAdjustmentListener**([AdjustmentListener](http://docs.google.com/java/awt/event/AdjustmentListener.html) l)

Removes an adjustment listener.

**Parameters:**l - the listener being removed**See Also:**[AdjustmentEvent](http://docs.google.com/java/awt/event/AdjustmentEvent.html)

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