| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/AdjustmentEvent.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/event/ActionListener.html)   [**NEXT CLASS**](http://docs.google.com/java/awt/event/AdjustmentListener.html) | [**FRAMES**](http://docs.google.com/index.html?java/awt/event/AdjustmentEvent.html)    [**NO FRAMES**](http://docs.google.com/AdjustmentEvent.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#3znysh7) | [CONSTR](#3dy6vkm) | [METHOD](#1t3h5sf) | DETAIL: [FIELD](#3rdcrjn) | [CONSTR](#1y810tw) | [METHOD](#1ci93xb) |

## **java.awt.event**

Class AdjustmentEvent

[java.lang.Object](http://docs.google.com/java/lang/Object.html)  
 [java.util.EventObject](http://docs.google.com/java/util/EventObject.html)  
 [java.awt.AWTEvent](http://docs.google.com/java/awt/AWTEvent.html)  
 **java.awt.event.AdjustmentEvent**

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

public class **AdjustmentEvent**extends [AWTEvent](http://docs.google.com/java/awt/AWTEvent.html)

The adjustment event emitted by Adjustable objects.

**Since:** 1.1 **See Also:**[Adjustable](http://docs.google.com/java/awt/Adjustable.html), [AdjustmentListener](http://docs.google.com/java/awt/event/AdjustmentListener.html), [Serialized Form](http://docs.google.com/serialized-form.html#java.awt.event.AdjustmentEvent)

| **Field Summary** | |
| --- | --- |
| static int | [**ADJUSTMENT\_FIRST**](http://docs.google.com/java/awt/event/AdjustmentEvent.html#ADJUSTMENT_FIRST)            Marks the first integer id for the range of adjustment event ids. |
| static int | [**ADJUSTMENT\_LAST**](http://docs.google.com/java/awt/event/AdjustmentEvent.html#ADJUSTMENT_LAST)            Marks the last integer id for the range of adjustment event ids. |
| static int | [**ADJUSTMENT\_VALUE\_CHANGED**](http://docs.google.com/java/awt/event/AdjustmentEvent.html#ADJUSTMENT_VALUE_CHANGED)            The adjustment value changed event. |
| static int | [**BLOCK\_DECREMENT**](http://docs.google.com/java/awt/event/AdjustmentEvent.html#BLOCK_DECREMENT)            The block decrement adjustment type. |
| static int | [**BLOCK\_INCREMENT**](http://docs.google.com/java/awt/event/AdjustmentEvent.html#BLOCK_INCREMENT)            The block increment adjustment type. |
| static int | [**TRACK**](http://docs.google.com/java/awt/event/AdjustmentEvent.html#TRACK)            The absolute tracking adjustment type. |
| static int | [**UNIT\_DECREMENT**](http://docs.google.com/java/awt/event/AdjustmentEvent.html#UNIT_DECREMENT)            The unit decrement adjustment type. |
| static int | [**UNIT\_INCREMENT**](http://docs.google.com/java/awt/event/AdjustmentEvent.html#UNIT_INCREMENT)            The unit increment adjustment type. |

| **Fields inherited from class java.awt.**[**AWTEvent**](http://docs.google.com/java/awt/AWTEvent.html) |
| --- |
| [ACTION\_EVENT\_MASK](http://docs.google.com/java/awt/AWTEvent.html#ACTION_EVENT_MASK), [ADJUSTMENT\_EVENT\_MASK](http://docs.google.com/java/awt/AWTEvent.html#ADJUSTMENT_EVENT_MASK), [COMPONENT\_EVENT\_MASK](http://docs.google.com/java/awt/AWTEvent.html#COMPONENT_EVENT_MASK), [consumed](http://docs.google.com/java/awt/AWTEvent.html#consumed), [CONTAINER\_EVENT\_MASK](http://docs.google.com/java/awt/AWTEvent.html#CONTAINER_EVENT_MASK), [FOCUS\_EVENT\_MASK](http://docs.google.com/java/awt/AWTEvent.html#FOCUS_EVENT_MASK), [HIERARCHY\_BOUNDS\_EVENT\_MASK](http://docs.google.com/java/awt/AWTEvent.html#HIERARCHY_BOUNDS_EVENT_MASK), [HIERARCHY\_EVENT\_MASK](http://docs.google.com/java/awt/AWTEvent.html#HIERARCHY_EVENT_MASK), [id](http://docs.google.com/java/awt/AWTEvent.html#id), [INPUT\_METHOD\_EVENT\_MASK](http://docs.google.com/java/awt/AWTEvent.html#INPUT_METHOD_EVENT_MASK), [INVOCATION\_EVENT\_MASK](http://docs.google.com/java/awt/AWTEvent.html#INVOCATION_EVENT_MASK), [ITEM\_EVENT\_MASK](http://docs.google.com/java/awt/AWTEvent.html#ITEM_EVENT_MASK), [KEY\_EVENT\_MASK](http://docs.google.com/java/awt/AWTEvent.html#KEY_EVENT_MASK), [MOUSE\_EVENT\_MASK](http://docs.google.com/java/awt/AWTEvent.html#MOUSE_EVENT_MASK), [MOUSE\_MOTION\_EVENT\_MASK](http://docs.google.com/java/awt/AWTEvent.html#MOUSE_MOTION_EVENT_MASK), [MOUSE\_WHEEL\_EVENT\_MASK](http://docs.google.com/java/awt/AWTEvent.html#MOUSE_WHEEL_EVENT_MASK), [PAINT\_EVENT\_MASK](http://docs.google.com/java/awt/AWTEvent.html#PAINT_EVENT_MASK), [RESERVED\_ID\_MAX](http://docs.google.com/java/awt/AWTEvent.html#RESERVED_ID_MAX), [TEXT\_EVENT\_MASK](http://docs.google.com/java/awt/AWTEvent.html#TEXT_EVENT_MASK), [WINDOW\_EVENT\_MASK](http://docs.google.com/java/awt/AWTEvent.html#WINDOW_EVENT_MASK), [WINDOW\_FOCUS\_EVENT\_MASK](http://docs.google.com/java/awt/AWTEvent.html#WINDOW_FOCUS_EVENT_MASK), [WINDOW\_STATE\_EVENT\_MASK](http://docs.google.com/java/awt/AWTEvent.html#WINDOW_STATE_EVENT_MASK) |

| **Fields inherited from class java.util.**[**EventObject**](http://docs.google.com/java/util/EventObject.html) |
| --- |
| [source](http://docs.google.com/java/util/EventObject.html#source) |

| **Constructor Summary** | |
| --- | --- |
| [**AdjustmentEvent**](http://docs.google.com/java/awt/event/AdjustmentEvent.html#AdjustmentEvent(java.awt.Adjustable,%20int,%20int,%20int))([Adjustable](http://docs.google.com/java/awt/Adjustable.html) source, int id, int type, int value)            Constructs an AdjustmentEvent object with the specified Adjustable source, event type, adjustment type, and value. |
| [**AdjustmentEvent**](http://docs.google.com/java/awt/event/AdjustmentEvent.html#AdjustmentEvent(java.awt.Adjustable,%20int,%20int,%20int,%20boolean))([Adjustable](http://docs.google.com/java/awt/Adjustable.html) source, int id, int type, int value, boolean isAdjusting)            Constructs an AdjustmentEvent object with the specified Adjustable source, event type, adjustment type, and value. |

| **Method Summary** | |
| --- | --- |
| [Adjustable](http://docs.google.com/java/awt/Adjustable.html) | [**getAdjustable**](http://docs.google.com/java/awt/event/AdjustmentEvent.html#getAdjustable())()            Returns the Adjustable object where this event originated. |
| int | [**getAdjustmentType**](http://docs.google.com/java/awt/event/AdjustmentEvent.html#getAdjustmentType())()            Returns the type of adjustment which caused the value changed event. |
| int | [**getValue**](http://docs.google.com/java/awt/event/AdjustmentEvent.html#getValue())()            Returns the current value in the adjustment event. |
| boolean | [**getValueIsAdjusting**](http://docs.google.com/java/awt/event/AdjustmentEvent.html#getValueIsAdjusting())()            Returns true if this is one of multiple adjustment events. |
| [String](http://docs.google.com/java/lang/String.html) | [**paramString**](http://docs.google.com/java/awt/event/AdjustmentEvent.html#paramString())()            Returns a string representing the state of this Event. |

| **Methods inherited from class java.awt.**[**AWTEvent**](http://docs.google.com/java/awt/AWTEvent.html) |
| --- |
| [consume](http://docs.google.com/java/awt/AWTEvent.html#consume()), [getID](http://docs.google.com/java/awt/AWTEvent.html#getID()), [isConsumed](http://docs.google.com/java/awt/AWTEvent.html#isConsumed()), [setSource](http://docs.google.com/java/awt/AWTEvent.html#setSource(java.lang.Object)), [toString](http://docs.google.com/java/awt/AWTEvent.html#toString()) |

| **Methods inherited from class java.util.**[**EventObject**](http://docs.google.com/java/util/EventObject.html) |
| --- |
| [getSource](http://docs.google.com/java/util/EventObject.html#getSource()) |

| **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** |
| --- |

### ADJUSTMENT\_FIRST

public static final int **ADJUSTMENT\_FIRST**

Marks the first integer id for the range of adjustment event ids.

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

### ADJUSTMENT\_LAST

public static final int **ADJUSTMENT\_LAST**

Marks the last integer id for the range of adjustment event ids.

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

### ADJUSTMENT\_VALUE\_CHANGED

public static final int **ADJUSTMENT\_VALUE\_CHANGED**

The adjustment value changed event.

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

### UNIT\_INCREMENT

public static final int **UNIT\_INCREMENT**

The unit increment adjustment type.

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

### UNIT\_DECREMENT

public static final int **UNIT\_DECREMENT**

The unit decrement adjustment type.

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

### BLOCK\_DECREMENT

public static final int **BLOCK\_DECREMENT**

The block decrement adjustment type.

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

### BLOCK\_INCREMENT

public static final int **BLOCK\_INCREMENT**

The block increment adjustment type.

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

### TRACK

public static final int **TRACK**

The absolute tracking adjustment type.

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

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

### AdjustmentEvent

public **AdjustmentEvent**([Adjustable](http://docs.google.com/java/awt/Adjustable.html) source,  
 int id,  
 int type,  
 int value)

Constructs an AdjustmentEvent object with the specified Adjustable source, event type, adjustment type, and value.

Note that passing in an invalid id results in unspecified behavior. This method throws an IllegalArgumentException if source is null.

**Parameters:**source - the Adjustable object where the event originatedid - the event typetype - the adjustment typevalue - the current value of the adjustment **Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - if source is null

### AdjustmentEvent

public **AdjustmentEvent**([Adjustable](http://docs.google.com/java/awt/Adjustable.html) source,  
 int id,  
 int type,  
 int value,  
 boolean isAdjusting)

Constructs an AdjustmentEvent object with the specified Adjustable source, event type, adjustment type, and value.

Note that passing in an invalid id results in unspecified behavior. This method throws an IllegalArgumentException if source is null.

**Parameters:**source - the Adjustable object where the event originatedid - the event typetype - the adjustment typevalue - the current value of the adjustmentisAdjusting - true if the event is one of a series of multiple adjusting events, otherwise false **Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - if source is null**Since:** 1.4

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

### getAdjustable

public [Adjustable](http://docs.google.com/java/awt/Adjustable.html) **getAdjustable**()

Returns the Adjustable object where this event originated.

**Returns:**the Adjustable object where this event originated

### getValue

public int **getValue**()

Returns the current value in the adjustment event.

**Returns:**the current value in the adjustment event

### getAdjustmentType

public int **getAdjustmentType**()

Returns the type of adjustment which caused the value changed event. It will have one of the following values:

* [UNIT\_INCREMENT](http://docs.google.com/java/awt/event/AdjustmentEvent.html#UNIT_INCREMENT)
* [UNIT\_DECREMENT](http://docs.google.com/java/awt/event/AdjustmentEvent.html#UNIT_DECREMENT)
* [BLOCK\_INCREMENT](http://docs.google.com/java/awt/event/AdjustmentEvent.html#BLOCK_INCREMENT)
* [BLOCK\_DECREMENT](http://docs.google.com/java/awt/event/AdjustmentEvent.html#BLOCK_DECREMENT)
* [TRACK](http://docs.google.com/java/awt/event/AdjustmentEvent.html#TRACK)

**Returns:**one of the adjustment values listed above

### getValueIsAdjusting

public boolean **getValueIsAdjusting**()

Returns true if this is one of multiple adjustment events.

**Returns:**true if this is one of multiple adjustment events, otherwise returns false**Since:** 1.4

### paramString

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

**Description copied from class:** [**AWTEvent**](http://docs.google.com/java/awt/AWTEvent.html#paramString()) Returns a string representing the state of this Event. This method is intended to be used only for debugging purposes, and the content and format of the returned string may vary between implementations. The returned string may be empty but may not be null.

**Overrides:**[paramString](http://docs.google.com/java/awt/AWTEvent.html#paramString()) in class [AWTEvent](http://docs.google.com/java/awt/AWTEvent.html) **Returns:**a string representation of this event

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/AdjustmentEvent.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/event/ActionListener.html)   [**NEXT CLASS**](http://docs.google.com/java/awt/event/AdjustmentListener.html) | [**FRAMES**](http://docs.google.com/index.html?java/awt/event/AdjustmentEvent.html)    [**NO FRAMES**](http://docs.google.com/AdjustmentEvent.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#3znysh7) | [CONSTR](#3dy6vkm) | [METHOD](#1t3h5sf) | DETAIL: [FIELD](#3rdcrjn) | [CONSTR](#1y810tw) | [METHOD](#1ci93xb) |

[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.

Copyright 2006 Sun Microsystems, Inc. All rights reserved. Use is subject to [license terms](http://docs.google.com/legal/license.html). Also see the [documentation redistribution policy](http://java.sun.com/docs/redist.html).