| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/ItemEvent.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/InvocationEvent.html)   [**NEXT CLASS**](http://docs.google.com/java/awt/event/ItemListener.html) | [**FRAMES**](http://docs.google.com/index.html?java/awt/event/ItemEvent.html)    [**NO FRAMES**](http://docs.google.com/ItemEvent.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#3znysh7) | [CONSTR](#3dy6vkm) | [METHOD](#1t3h5sf) | DETAIL: [FIELD](#3rdcrjn) | [CONSTR](#2jxsxqh) | [METHOD](#3j2qqm3) |

## **java.awt.event**

Class ItemEvent

[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.ItemEvent**

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

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

A semantic event which indicates that an item was selected or deselected. This high-level event is generated by an ItemSelectable object (such as a List) when an item is selected or deselected by the user. The event is passed to every ItemListener object which registered to receive such events using the component's addItemListener method.

The object that implements the ItemListener interface gets this ItemEvent when the event occurs. The listener is spared the details of processing individual mouse movements and mouse clicks, and can instead process a "meaningful" (semantic) event like "item selected" or "item deselected".

**Since:** 1.1 **See Also:**[ItemSelectable](http://docs.google.com/java/awt/ItemSelectable.html), [ItemListener](http://docs.google.com/java/awt/event/ItemListener.html), [Tutorial: Writing an Item Listener](http://java.sun.com/docs/books/tutorial/post1.0/ui/itemlistener.html), [Serialized Form](http://docs.google.com/serialized-form.html#java.awt.event.ItemEvent)

| **Field Summary** | |
| --- | --- |
| static int | [**DESELECTED**](http://docs.google.com/java/awt/event/ItemEvent.html#DESELECTED)            This state-change-value indicates that a selected item was deselected. |
| static int | [**ITEM\_FIRST**](http://docs.google.com/java/awt/event/ItemEvent.html#ITEM_FIRST)            The first number in the range of ids used for item events. |
| static int | [**ITEM\_LAST**](http://docs.google.com/java/awt/event/ItemEvent.html#ITEM_LAST)            The last number in the range of ids used for item events. |
| static int | [**ITEM\_STATE\_CHANGED**](http://docs.google.com/java/awt/event/ItemEvent.html#ITEM_STATE_CHANGED)            This event id indicates that an item's state changed. |
| static int | [**SELECTED**](http://docs.google.com/java/awt/event/ItemEvent.html#SELECTED)            This state-change value indicates that an item was selected. |

| **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** | |
| --- | --- |
| [**ItemEvent**](http://docs.google.com/java/awt/event/ItemEvent.html#ItemEvent(java.awt.ItemSelectable,%20int,%20java.lang.Object,%20int))([ItemSelectable](http://docs.google.com/java/awt/ItemSelectable.html) source, int id, [Object](http://docs.google.com/java/lang/Object.html) item, int stateChange)            Constructs an ItemEvent object. |

| **Method Summary** | |
| --- | --- |
| [Object](http://docs.google.com/java/lang/Object.html) | [**getItem**](http://docs.google.com/java/awt/event/ItemEvent.html#getItem())()            Returns the item affected by the event. |
| [ItemSelectable](http://docs.google.com/java/awt/ItemSelectable.html) | [**getItemSelectable**](http://docs.google.com/java/awt/event/ItemEvent.html#getItemSelectable())()            Returns the originator of the event. |
| int | [**getStateChange**](http://docs.google.com/java/awt/event/ItemEvent.html#getStateChange())()            Returns the type of state change (selected or deselected). |
| [String](http://docs.google.com/java/lang/String.html) | [**paramString**](http://docs.google.com/java/awt/event/ItemEvent.html#paramString())()            Returns a parameter string identifying this item 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** |
| --- |

### ITEM\_FIRST

public static final int **ITEM\_FIRST**

The first number in the range of ids used for item events.

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

### ITEM\_LAST

public static final int **ITEM\_LAST**

The last number in the range of ids used for item events.

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

### ITEM\_STATE\_CHANGED

public static final int **ITEM\_STATE\_CHANGED**

This event id indicates that an item's state changed.

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

### SELECTED

public static final int **SELECTED**

This state-change value indicates that an item was selected.

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

### DESELECTED

public static final int **DESELECTED**

This state-change-value indicates that a selected item was deselected.

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

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

### ItemEvent

public **ItemEvent**([ItemSelectable](http://docs.google.com/java/awt/ItemSelectable.html) source,  
 int id,  
 [Object](http://docs.google.com/java/lang/Object.html) item,  
 int stateChange)

Constructs an ItemEvent object.

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

**Parameters:**source - the ItemSelectable object that originated the eventid - an integer that identifies the event typeitem - an object -- the item affected by the eventstateChange - an integer that indicates whether the item was selected or deselected **Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - if source is null

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

### getItemSelectable

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

Returns the originator of the event.

**Returns:**the ItemSelectable object that originated the event.

### getItem

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

Returns the item affected by the event.

**Returns:**the item (object) that was affected by the event

### getStateChange

public int **getStateChange**()

Returns the type of state change (selected or deselected).

**Returns:**an integer that indicates whether the item was selected or deselected**See Also:**[SELECTED](http://docs.google.com/java/awt/event/ItemEvent.html#SELECTED), [DESELECTED](http://docs.google.com/java/awt/event/ItemEvent.html#DESELECTED)

### paramString

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

Returns a parameter string identifying this item event. This method is useful for event-logging and for debugging.

**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 identifying the event and its attributes

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/ItemEvent.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/InvocationEvent.html)   [**NEXT CLASS**](http://docs.google.com/java/awt/event/ItemListener.html) | [**FRAMES**](http://docs.google.com/index.html?java/awt/event/ItemEvent.html)    [**NO FRAMES**](http://docs.google.com/ItemEvent.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#3znysh7) | [CONSTR](#3dy6vkm) | [METHOD](#1t3h5sf) | DETAIL: [FIELD](#3rdcrjn) | [CONSTR](#2jxsxqh) | [METHOD](#3j2qqm3) |

[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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