| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/ComponentEvent.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/ComponentAdapter.html)   [**NEXT CLASS**](http://docs.google.com/java/awt/event/ComponentListener.html) | [**FRAMES**](http://docs.google.com/index.html?java/awt/event/ComponentEvent.html)    [**NO FRAMES**](http://docs.google.com/ComponentEvent.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#3znysh7) | [CONSTR](#3dy6vkm) | [METHOD](#1t3h5sf) | DETAIL: [FIELD](#3rdcrjn) | [CONSTR](#z337ya) | [METHOD](#1y810tw) |

## **java.awt.event**

Class ComponentEvent

[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.ComponentEvent**

**All Implemented Interfaces:** [Serializable](http://docs.google.com/java/io/Serializable.html) **Direct Known Subclasses:** [ContainerEvent](http://docs.google.com/java/awt/event/ContainerEvent.html), [FocusEvent](http://docs.google.com/java/awt/event/FocusEvent.html), [InputEvent](http://docs.google.com/java/awt/event/InputEvent.html), [PaintEvent](http://docs.google.com/java/awt/event/PaintEvent.html), [WindowEvent](http://docs.google.com/java/awt/event/WindowEvent.html)

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

A low-level event which indicates that a component moved, changed size, or changed visibility (also, the root class for the other component-level events).

Component events are provided for notification purposes ONLY; The AWT will automatically handle component moves and resizes internally so that GUI layout works properly regardless of whether a program is receiving these events or not.

In addition to serving as the base class for other component-related events (InputEvent, FocusEvent, WindowEvent, ContainerEvent), this class defines the events that indicate changes in a component's size, position, or visibility.

This low-level event is generated by a component object (such as a List) when the component is moved, resized, rendered invisible, or made visible again. The event is passed to every ComponentListener or ComponentAdapter object which registered to receive such events using the component's addComponentListener method. (ComponentAdapter objects implement the ComponentListener interface.) Each such listener object gets this ComponentEvent when the event occurs.

**Since:** 1.1 **See Also:**[ComponentAdapter](http://docs.google.com/java/awt/event/ComponentAdapter.html), [ComponentListener](http://docs.google.com/java/awt/event/ComponentListener.html), [Tutorial: Writing a Component Listener](http://java.sun.com/docs/books/tutorial/post1.0/ui/componentlistener.html), [Serialized Form](http://docs.google.com/serialized-form.html#java.awt.event.ComponentEvent)

| **Field Summary** | |
| --- | --- |
| static int | [**COMPONENT\_FIRST**](http://docs.google.com/java/awt/event/ComponentEvent.html#COMPONENT_FIRST)            The first number in the range of ids used for component events. |
| static int | [**COMPONENT\_HIDDEN**](http://docs.google.com/java/awt/event/ComponentEvent.html#COMPONENT_HIDDEN)            This event indicates that the component was rendered invisible. |
| static int | [**COMPONENT\_LAST**](http://docs.google.com/java/awt/event/ComponentEvent.html#COMPONENT_LAST)            The last number in the range of ids used for component events. |
| static int | [**COMPONENT\_MOVED**](http://docs.google.com/java/awt/event/ComponentEvent.html#COMPONENT_MOVED)            This event indicates that the component's position changed. |
| static int | [**COMPONENT\_RESIZED**](http://docs.google.com/java/awt/event/ComponentEvent.html#COMPONENT_RESIZED)            This event indicates that the component's size changed. |
| static int | [**COMPONENT\_SHOWN**](http://docs.google.com/java/awt/event/ComponentEvent.html#COMPONENT_SHOWN)            This event indicates that the component was made visible. |

| **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** | |
| --- | --- |
| [**ComponentEvent**](http://docs.google.com/java/awt/event/ComponentEvent.html#ComponentEvent(java.awt.Component,%20int))([Component](http://docs.google.com/java/awt/Component.html) source, int id)            Constructs a ComponentEvent object. |

| **Method Summary** | |
| --- | --- |
| [Component](http://docs.google.com/java/awt/Component.html) | [**getComponent**](http://docs.google.com/java/awt/event/ComponentEvent.html#getComponent())()            Returns the originator of the event. |
| [String](http://docs.google.com/java/lang/String.html) | [**paramString**](http://docs.google.com/java/awt/event/ComponentEvent.html#paramString())()            Returns a parameter string identifying 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** |
| --- |

### COMPONENT\_FIRST

public static final int **COMPONENT\_FIRST**

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

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

### COMPONENT\_LAST

public static final int **COMPONENT\_LAST**

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

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

### COMPONENT\_MOVED

public static final int **COMPONENT\_MOVED**

This event indicates that the component's position changed.

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

### COMPONENT\_RESIZED

public static final int **COMPONENT\_RESIZED**

This event indicates that the component's size changed.

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

### COMPONENT\_SHOWN

public static final int **COMPONENT\_SHOWN**

This event indicates that the component was made visible.

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

### COMPONENT\_HIDDEN

public static final int **COMPONENT\_HIDDEN**

This event indicates that the component was rendered invisible.

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

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

### ComponentEvent

public **ComponentEvent**([Component](http://docs.google.com/java/awt/Component.html) source,  
 int id)

Constructs a ComponentEvent object.

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

**Parameters:**source - the Component that originated the eventid - an integer indicating the type of event **Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - if source is null

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

### getComponent

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

Returns the originator of the event.

**Returns:**the Component object that originated the event, or null if the object is not a Component.

### paramString

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

Returns a parameter string identifying this 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/ComponentEvent.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/ComponentAdapter.html)   [**NEXT CLASS**](http://docs.google.com/java/awt/event/ComponentListener.html) | [**FRAMES**](http://docs.google.com/index.html?java/awt/event/ComponentEvent.html)    [**NO FRAMES**](http://docs.google.com/ComponentEvent.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#3znysh7) | [CONSTR](#3dy6vkm) | [METHOD](#1t3h5sf) | DETAIL: [FIELD](#3rdcrjn) | [CONSTR](#z337ya) | [METHOD](#1y810tw) |

[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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