| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/FocusEvent.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/FocusAdapter.html)   [**NEXT CLASS**](http://docs.google.com/java/awt/event/FocusListener.html) | [**FRAMES**](http://docs.google.com/index.html?java/awt/event/FocusEvent.html)    [**NO FRAMES**](http://docs.google.com/FocusEvent.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#3znysh7) | [CONSTR](#1t3h5sf) | [METHOD](#4d34og8) | DETAIL: [FIELD](#lnxbz9) | [CONSTR](#z337ya) | [METHOD](#2xcytpi) |

## **java.awt.event**

Class FocusEvent

[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](http://docs.google.com/java/awt/event/ComponentEvent.html)  
 **java.awt.event.FocusEvent**

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

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

A low-level event which indicates that a Component has gained or lost the input focus. This low-level event is generated by a Component (such as a TextField). The event is passed to every FocusListener or FocusAdapter object which registered to receive such events using the Component's addFocusListener method. ( FocusAdapter objects implement the FocusListener interface.) Each such listener object gets this FocusEvent when the event occurs.

There are two levels of focus events: permanent and temporary. Permanent focus change events occur when focus is directly moved from one Component to another, such as through a call to requestFocus() or as the user uses the TAB key to traverse Components. Temporary focus change events occur when focus is temporarily lost for a Component as the indirect result of another operation, such as Window deactivation or a Scrollbar drag. In this case, the original focus state will automatically be restored once that operation is finished, or, for the case of Window deactivation, when the Window is reactivated. Both permanent and temporary focus events are delivered using the FOCUS\_GAINED and FOCUS\_LOST event ids; the level may be distinguished in the event using the isTemporary() method.

**Since:** 1.1 **See Also:**[FocusAdapter](http://docs.google.com/java/awt/event/FocusAdapter.html), [FocusListener](http://docs.google.com/java/awt/event/FocusListener.html), [Tutorial: Writing a Focus Listener](http://java.sun.com/docs/books/tutorial/post1.0/ui/focuslistener.html), [Serialized Form](http://docs.google.com/serialized-form.html#java.awt.event.FocusEvent)

| **Field Summary** | |
| --- | --- |
| static int | [**FOCUS\_FIRST**](http://docs.google.com/java/awt/event/FocusEvent.html#FOCUS_FIRST)            The first number in the range of ids used for focus events. |
| static int | [**FOCUS\_GAINED**](http://docs.google.com/java/awt/event/FocusEvent.html#FOCUS_GAINED)            This event indicates that the Component is now the focus owner. |
| static int | [**FOCUS\_LAST**](http://docs.google.com/java/awt/event/FocusEvent.html#FOCUS_LAST)            The last number in the range of ids used for focus events. |
| static int | [**FOCUS\_LOST**](http://docs.google.com/java/awt/event/FocusEvent.html#FOCUS_LOST)            This event indicates that the Component is no longer the focus owner. |

| **Fields inherited from class java.awt.event.**[**ComponentEvent**](http://docs.google.com/java/awt/event/ComponentEvent.html) |
| --- |
| [COMPONENT\_FIRST](http://docs.google.com/java/awt/event/ComponentEvent.html#COMPONENT_FIRST), [COMPONENT\_HIDDEN](http://docs.google.com/java/awt/event/ComponentEvent.html#COMPONENT_HIDDEN), [COMPONENT\_LAST](http://docs.google.com/java/awt/event/ComponentEvent.html#COMPONENT_LAST), [COMPONENT\_MOVED](http://docs.google.com/java/awt/event/ComponentEvent.html#COMPONENT_MOVED), [COMPONENT\_RESIZED](http://docs.google.com/java/awt/event/ComponentEvent.html#COMPONENT_RESIZED), [COMPONENT\_SHOWN](http://docs.google.com/java/awt/event/ComponentEvent.html#COMPONENT_SHOWN) |

| **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** | |
| --- | --- |
| [**FocusEvent**](http://docs.google.com/java/awt/event/FocusEvent.html#FocusEvent(java.awt.Component,%20int))([Component](http://docs.google.com/java/awt/Component.html) source, int id)            Constructs a FocusEvent object and identifies it as a permanent change in focus. |
| [**FocusEvent**](http://docs.google.com/java/awt/event/FocusEvent.html#FocusEvent(java.awt.Component,%20int,%20boolean))([Component](http://docs.google.com/java/awt/Component.html) source, int id, boolean temporary)            Constructs a FocusEvent object and identifies whether or not the change is temporary. |
| [**FocusEvent**](http://docs.google.com/java/awt/event/FocusEvent.html#FocusEvent(java.awt.Component,%20int,%20boolean,%20java.awt.Component))([Component](http://docs.google.com/java/awt/Component.html) source, int id, boolean temporary, [Component](http://docs.google.com/java/awt/Component.html) opposite)            Constructs a FocusEvent object with the specified temporary state and opposite Component. |

| **Method Summary** | |
| --- | --- |
| [Component](http://docs.google.com/java/awt/Component.html) | [**getOppositeComponent**](http://docs.google.com/java/awt/event/FocusEvent.html#getOppositeComponent())()            Returns the other Component involved in this focus change. |
| boolean | [**isTemporary**](http://docs.google.com/java/awt/event/FocusEvent.html#isTemporary())()            Identifies the focus change event as temporary or permanent. |
| [String](http://docs.google.com/java/lang/String.html) | [**paramString**](http://docs.google.com/java/awt/event/FocusEvent.html#paramString())()            Returns a parameter string identifying this event. |

| **Methods inherited from class java.awt.event.**[**ComponentEvent**](http://docs.google.com/java/awt/event/ComponentEvent.html) |
| --- |
| [getComponent](http://docs.google.com/java/awt/event/ComponentEvent.html#getComponent()) |

| **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** |
| --- |

### FOCUS\_FIRST

public static final int **FOCUS\_FIRST**

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

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

### FOCUS\_LAST

public static final int **FOCUS\_LAST**

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

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

### FOCUS\_GAINED

public static final int **FOCUS\_GAINED**

This event indicates that the Component is now the focus owner.

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

### FOCUS\_LOST

public static final int **FOCUS\_LOST**

This event indicates that the Component is no longer the focus owner.

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

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

### FocusEvent

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

Constructs a FocusEvent object with the specified temporary state and opposite Component. The opposite Component is the other Component involved in this focus change. For a FOCUS\_GAINED event, this is the Component that lost focus. For a FOCUS\_LOST event, this is the Component that gained focus. If this focus change occurs with a native application, with a Java application in a different VM, or with no other Component, then the opposite Component is null.

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 - FOCUS\_GAINED or FOCUS\_LOSTtemporary - true if the focus change is temporary; false otherwiseopposite - the other Component involved in the focus change, or null **Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - if source is null**Since:** 1.4

### FocusEvent

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

Constructs a FocusEvent object and identifies whether or not the change is temporary.

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 eventtemporary - true if the focus change is temporary; false otherwise **Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - if source is null

### FocusEvent

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

Constructs a FocusEvent object and identifies it as a permanent change in focus.

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** |
| --- |

### isTemporary

public boolean **isTemporary**()

Identifies the focus change event as temporary or permanent.

**Returns:**true if the focus change is temporary; false otherwise

### getOppositeComponent

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

Returns the other Component involved in this focus change. For a FOCUS\_GAINED event, this is the Component that lost focus. For a FOCUS\_LOST event, this is the Component that gained focus. If this focus change occurs with a native application, with a Java application in a different VM or context, or with no other Component, then null is returned.

**Returns:**the other Component involved in the focus change, or null**Since:** 1.4

### 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/event/ComponentEvent.html#paramString()) in class [ComponentEvent](http://docs.google.com/java/awt/event/ComponentEvent.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/FocusEvent.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/FocusAdapter.html)   [**NEXT CLASS**](http://docs.google.com/java/awt/event/FocusListener.html) | [**FRAMES**](http://docs.google.com/index.html?java/awt/event/FocusEvent.html)    [**NO FRAMES**](http://docs.google.com/FocusEvent.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
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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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