| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/ComponentAdapter.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/AWTEventListenerProxy.html)   [**NEXT CLASS**](http://docs.google.com/java/awt/event/ComponentEvent.html) | [**FRAMES**](http://docs.google.com/index.html?java/awt/event/ComponentAdapter.html)    [**NO FRAMES**](http://docs.google.com/ComponentAdapter.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | [CONSTR](#3znysh7) | [METHOD](#2et92p0) | DETAIL: FIELD | [CONSTR](#3dy6vkm) | [METHOD](#4d34og8) |

## **java.awt.event**

Class ComponentAdapter

[java.lang.Object](http://docs.google.com/java/lang/Object.html)  
 **java.awt.event.ComponentAdapter**

**All Implemented Interfaces:** [ComponentListener](http://docs.google.com/java/awt/event/ComponentListener.html), [EventListener](http://docs.google.com/java/util/EventListener.html) **Direct Known Subclasses:** [BasicSliderUI.ComponentHandler](http://docs.google.com/javax/swing/plaf/basic/BasicSliderUI.ComponentHandler.html), [BasicTreeUI.ComponentHandler](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.ComponentHandler.html), [JViewport.ViewListener](http://docs.google.com/javax/swing/JViewport.ViewListener.html)

public abstract class **ComponentAdapter**extends [Object](http://docs.google.com/java/lang/Object.html)implements [ComponentListener](http://docs.google.com/java/awt/event/ComponentListener.html)

An abstract adapter class for receiving component events. The methods in this class are empty. This class exists as convenience for creating listener objects.

Extend this class to create a ComponentEvent listener and override the methods for the events of interest. (If you implement the ComponentListener interface, you have to define all of the methods in it. This abstract class defines null methods for them all, so you can only have to define methods for events you care about.)

Create a listener object using your class and then register it with a component using the component's addComponentListener method. When the component's size, location, or visibility changes, the relevant method in the listener object is invoked, and the ComponentEvent is passed to it.

**Since:** 1.1 **See Also:**[ComponentEvent](http://docs.google.com/java/awt/event/ComponentEvent.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)

| **Constructor Summary** | |
| --- | --- |
| [**ComponentAdapter**](http://docs.google.com/java/awt/event/ComponentAdapter.html#ComponentAdapter())() |

| **Method Summary** | |
| --- | --- |
| void | [**componentHidden**](http://docs.google.com/java/awt/event/ComponentAdapter.html#componentHidden(java.awt.event.ComponentEvent))([ComponentEvent](http://docs.google.com/java/awt/event/ComponentEvent.html) e)            Invoked when the component has been made invisible. |
| void | [**componentMoved**](http://docs.google.com/java/awt/event/ComponentAdapter.html#componentMoved(java.awt.event.ComponentEvent))([ComponentEvent](http://docs.google.com/java/awt/event/ComponentEvent.html) e)            Invoked when the component's position changes. |
| void | [**componentResized**](http://docs.google.com/java/awt/event/ComponentAdapter.html#componentResized(java.awt.event.ComponentEvent))([ComponentEvent](http://docs.google.com/java/awt/event/ComponentEvent.html) e)            Invoked when the component's size changes. |
| void | [**componentShown**](http://docs.google.com/java/awt/event/ComponentAdapter.html#componentShown(java.awt.event.ComponentEvent))([ComponentEvent](http://docs.google.com/java/awt/event/ComponentEvent.html) e)            Invoked when the component has been made visible. |

| **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()), [toString](http://docs.google.com/java/lang/Object.html#toString()), [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)) |

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

### ComponentAdapter

public **ComponentAdapter**()

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

### componentResized

public void **componentResized**([ComponentEvent](http://docs.google.com/java/awt/event/ComponentEvent.html) e)

Invoked when the component's size changes.

**Specified by:**[componentResized](http://docs.google.com/java/awt/event/ComponentListener.html#componentResized(java.awt.event.ComponentEvent)) in interface [ComponentListener](http://docs.google.com/java/awt/event/ComponentListener.html)

### componentMoved

public void **componentMoved**([ComponentEvent](http://docs.google.com/java/awt/event/ComponentEvent.html) e)

Invoked when the component's position changes.

**Specified by:**[componentMoved](http://docs.google.com/java/awt/event/ComponentListener.html#componentMoved(java.awt.event.ComponentEvent)) in interface [ComponentListener](http://docs.google.com/java/awt/event/ComponentListener.html)

### componentShown

public void **componentShown**([ComponentEvent](http://docs.google.com/java/awt/event/ComponentEvent.html) e)

Invoked when the component has been made visible.

**Specified by:**[componentShown](http://docs.google.com/java/awt/event/ComponentListener.html#componentShown(java.awt.event.ComponentEvent)) in interface [ComponentListener](http://docs.google.com/java/awt/event/ComponentListener.html)

### componentHidden

public void **componentHidden**([ComponentEvent](http://docs.google.com/java/awt/event/ComponentEvent.html) e)

Invoked when the component has been made invisible.

**Specified by:**[componentHidden](http://docs.google.com/java/awt/event/ComponentListener.html#componentHidden(java.awt.event.ComponentEvent)) in interface [ComponentListener](http://docs.google.com/java/awt/event/ComponentListener.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/ComponentAdapter.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/AWTEventListenerProxy.html)   [**NEXT CLASS**](http://docs.google.com/java/awt/event/ComponentEvent.html) | [**FRAMES**](http://docs.google.com/index.html?java/awt/event/ComponentAdapter.html)    [**NO FRAMES**](http://docs.google.com/ComponentAdapter.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | [CONSTR](#3znysh7) | [METHOD](#2et92p0) | DETAIL: FIELD | [CONSTR](#3dy6vkm) | [METHOD](#4d34og8) |

[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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