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

## **java.awt.event**

Interface ContainerListener

**All Superinterfaces:** [EventListener](http://docs.google.com/java/util/EventListener.html) **All Known Implementing Classes:** [AWTEventMulticaster](http://docs.google.com/java/awt/AWTEventMulticaster.html), [BasicToolBarUI.ToolBarContListener](http://docs.google.com/javax/swing/plaf/basic/BasicToolBarUI.ToolBarContListener.html), [Container.AccessibleAWTContainer.AccessibleContainerHandler](http://docs.google.com/java/awt/Container.AccessibleAWTContainer.AccessibleContainerHandler.html), [ContainerAdapter](http://docs.google.com/java/awt/event/ContainerAdapter.html), [JComponent.AccessibleJComponent.AccessibleContainerHandler](http://docs.google.com/javax/swing/JComponent.AccessibleJComponent.AccessibleContainerHandler.html), [MetalToolBarUI.MetalContainerListener](http://docs.google.com/javax/swing/plaf/metal/MetalToolBarUI.MetalContainerListener.html)

public interface **ContainerListener**extends [EventListener](http://docs.google.com/java/util/EventListener.html)

The listener interface for receiving container events. The class that is interested in processing a container event either implements this interface (and all the methods it contains) or extends the abstract ContainerAdapter class (overriding only the methods of interest). The listener object created from that class is then registered with a component using the component's addContainerListener method. When the container's contents change because a component has been added or removed, the relevant method in the listener object is invoked, and the ContainerEvent is passed to it.

Container events are provided for notification purposes ONLY; The AWT will automatically handle add and remove operations internally so the program works properly regardless of whether the program registers a ComponentListener or not.

**Since:** 1.1 **See Also:**[ContainerAdapter](http://docs.google.com/java/awt/event/ContainerAdapter.html), [ContainerEvent](http://docs.google.com/java/awt/event/ContainerEvent.html), [Tutorial: Writing a Container Listener](http://java.sun.com/docs/books/tutorial/post1.0/ui/containerlistener.html)

| **Method Summary** | |
| --- | --- |
| void | [**componentAdded**](http://docs.google.com/java/awt/event/ContainerListener.html#componentAdded(java.awt.event.ContainerEvent))([ContainerEvent](http://docs.google.com/java/awt/event/ContainerEvent.html) e)            Invoked when a component has been added to the container. |
| void | [**componentRemoved**](http://docs.google.com/java/awt/event/ContainerListener.html#componentRemoved(java.awt.event.ContainerEvent))([ContainerEvent](http://docs.google.com/java/awt/event/ContainerEvent.html) e)            Invoked when a component has been removed from the container. |

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

### componentAdded

void **componentAdded**([ContainerEvent](http://docs.google.com/java/awt/event/ContainerEvent.html) e)

Invoked when a component has been added to the container.

### componentRemoved

void **componentRemoved**([ContainerEvent](http://docs.google.com/java/awt/event/ContainerEvent.html) e)

Invoked when a component has been removed from the container.

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

[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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