| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/KeyAdapter.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/ItemListener.html)   [**NEXT CLASS**](http://docs.google.com/java/awt/event/KeyEvent.html) | [**FRAMES**](http://docs.google.com/index.html?java/awt/event/KeyAdapter.html)    [**NO FRAMES**](http://docs.google.com/KeyAdapter.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 KeyAdapter

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

**All Implemented Interfaces:** [KeyListener](http://docs.google.com/java/awt/event/KeyListener.html), [EventListener](http://docs.google.com/java/util/EventListener.html) **Direct Known Subclasses:** [BasicComboBoxUI.KeyHandler](http://docs.google.com/javax/swing/plaf/basic/BasicComboBoxUI.KeyHandler.html), [BasicComboPopup.InvocationKeyHandler](http://docs.google.com/javax/swing/plaf/basic/BasicComboPopup.InvocationKeyHandler.html), [BasicTreeUI.KeyHandler](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.KeyHandler.html)

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

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

Extend this class to create a KeyEvent listener and override the methods for the events of interest. (If you implement the KeyListener 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 the extended class and then register it with a component using the component's addKeyListener method. When a key is pressed, released, or typed, the relevant method in the listener object is invoked, and the KeyEvent is passed to it.

**Since:** 1.1 **See Also:**[KeyEvent](http://docs.google.com/java/awt/event/KeyEvent.html), [KeyListener](http://docs.google.com/java/awt/event/KeyListener.html), [Tutorial: Writing a Key Listener](http://java.sun.com/docs/books/tutorial/post1.0/ui/keylistener.html)

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

| **Method Summary** | |
| --- | --- |
| void | [**keyPressed**](http://docs.google.com/java/awt/event/KeyAdapter.html#keyPressed(java.awt.event.KeyEvent))([KeyEvent](http://docs.google.com/java/awt/event/KeyEvent.html) e)            Invoked when a key has been pressed. |
| void | [**keyReleased**](http://docs.google.com/java/awt/event/KeyAdapter.html#keyReleased(java.awt.event.KeyEvent))([KeyEvent](http://docs.google.com/java/awt/event/KeyEvent.html) e)            Invoked when a key has been released. |
| void | [**keyTyped**](http://docs.google.com/java/awt/event/KeyAdapter.html#keyTyped(java.awt.event.KeyEvent))([KeyEvent](http://docs.google.com/java/awt/event/KeyEvent.html) e)            Invoked when a key has been typed. |

| **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** |
| --- |

### KeyAdapter

public **KeyAdapter**()

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

### keyTyped

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

Invoked when a key has been typed. This event occurs when a key press is followed by a key release.

**Specified by:**[keyTyped](http://docs.google.com/java/awt/event/KeyListener.html#keyTyped(java.awt.event.KeyEvent)) in interface [KeyListener](http://docs.google.com/java/awt/event/KeyListener.html)

### keyPressed

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

Invoked when a key has been pressed.

**Specified by:**[keyPressed](http://docs.google.com/java/awt/event/KeyListener.html#keyPressed(java.awt.event.KeyEvent)) in interface [KeyListener](http://docs.google.com/java/awt/event/KeyListener.html)

### keyReleased

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

Invoked when a key has been released.

**Specified by:**[keyReleased](http://docs.google.com/java/awt/event/KeyListener.html#keyReleased(java.awt.event.KeyEvent)) in interface [KeyListener](http://docs.google.com/java/awt/event/KeyListener.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/KeyAdapter.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/ItemListener.html)   [**NEXT CLASS**](http://docs.google.com/java/awt/event/KeyEvent.html) | [**FRAMES**](http://docs.google.com/index.html?java/awt/event/KeyAdapter.html)    [**NO FRAMES**](http://docs.google.com/KeyAdapter.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.

Copyright 2006 Sun Microsystems, Inc. All rights reserved. Use is subject to [license terms](http://docs.google.com/legal/license.html). Also see the [documentation redistribution policy](http://java.sun.com/docs/redist.html).