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

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

**All Implemented Interfaces:** [MouseListener](http://docs.google.com/java/awt/event/MouseListener.html), [MouseMotionListener](http://docs.google.com/java/awt/event/MouseMotionListener.html), [MouseWheelListener](http://docs.google.com/java/awt/event/MouseWheelListener.html), [EventListener](http://docs.google.com/java/util/EventListener.html) **Direct Known Subclasses:** [BasicComboPopup.InvocationMouseHandler](http://docs.google.com/javax/swing/plaf/basic/BasicComboPopup.InvocationMouseHandler.html), [BasicComboPopup.ListMouseHandler](http://docs.google.com/javax/swing/plaf/basic/BasicComboPopup.ListMouseHandler.html), [BasicFileChooserUI.DoubleClickListener](http://docs.google.com/javax/swing/plaf/basic/BasicFileChooserUI.DoubleClickListener.html), [BasicScrollBarUI.ArrowButtonListener](http://docs.google.com/javax/swing/plaf/basic/BasicScrollBarUI.ArrowButtonListener.html), [BasicScrollBarUI.TrackListener](http://docs.google.com/javax/swing/plaf/basic/BasicScrollBarUI.TrackListener.html), [BasicSplitPaneDivider.MouseHandler](http://docs.google.com/javax/swing/plaf/basic/BasicSplitPaneDivider.MouseHandler.html), [BasicTabbedPaneUI.MouseHandler](http://docs.google.com/javax/swing/plaf/basic/BasicTabbedPaneUI.MouseHandler.html), [BasicTreeUI.MouseHandler](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.MouseHandler.html), [FormView.MouseEventListener](http://docs.google.com/javax/swing/text/html/FormView.MouseEventListener.html), [HTMLEditorKit.LinkController](http://docs.google.com/javax/swing/text/html/HTMLEditorKit.LinkController.html), [MetalFileChooserUI.SingleClickListener](http://docs.google.com/javax/swing/plaf/metal/MetalFileChooserUI.SingleClickListener.html), [MouseInputAdapter](http://docs.google.com/javax/swing/event/MouseInputAdapter.html), [ToolTipManager](http://docs.google.com/javax/swing/ToolTipManager.html)

public abstract class **MouseAdapter**extends [Object](http://docs.google.com/java/lang/Object.html)implements [MouseListener](http://docs.google.com/java/awt/event/MouseListener.html), [MouseWheelListener](http://docs.google.com/java/awt/event/MouseWheelListener.html), [MouseMotionListener](http://docs.google.com/java/awt/event/MouseMotionListener.html)

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

Mouse events let you track when a mouse is pressed, released, clicked, moved, dragged, when it enters a component, when it exits and when a mouse wheel is moved.

Extend this class to create a MouseEvent (including drag and motion events) or/and MouseWheelEvent listener and override the methods for the events of interest. (If you implement the MouseListener, MouseMotionListener 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 addMouseListener addMouseMotionListener, addMouseWheelListener methods. The relevant method in the listener object is invoked and the MouseEvent or MouseWheelEvent is passed to it in following cases:

* when a mouse button is pressed, released, or clicked (pressed and released)
* when the mouse cursor enters or exits the component
* when the mouse wheel rotated, or mouse moved or dragged

**Since:** 1.1 **See Also:**[MouseEvent](http://docs.google.com/java/awt/event/MouseEvent.html), [MouseWheelEvent](http://docs.google.com/java/awt/event/MouseWheelEvent.html), [MouseListener](http://docs.google.com/java/awt/event/MouseListener.html), [MouseMotionListener](http://docs.google.com/java/awt/event/MouseMotionListener.html), [MouseWheelListener](http://docs.google.com/java/awt/event/MouseWheelListener.html), [Tutorial: Writing a Mouse Listener](http://java.sun.com/docs/books/tutorial/post1.0/ui/mouselistener.html)

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

| **Method Summary** | |
| --- | --- |
| void | [**mouseClicked**](http://docs.google.com/java/awt/event/MouseAdapter.html#mouseClicked(java.awt.event.MouseEvent))([MouseEvent](http://docs.google.com/java/awt/event/MouseEvent.html) e)            Invoked when the mouse button has been clicked (pressed and released) on a component. |
| void | [**mouseDragged**](http://docs.google.com/java/awt/event/MouseAdapter.html#mouseDragged(java.awt.event.MouseEvent))([MouseEvent](http://docs.google.com/java/awt/event/MouseEvent.html) e)            Invoked when a mouse button is pressed on a component and then dragged. |
| void | [**mouseEntered**](http://docs.google.com/java/awt/event/MouseAdapter.html#mouseEntered(java.awt.event.MouseEvent))([MouseEvent](http://docs.google.com/java/awt/event/MouseEvent.html) e)            Invoked when the mouse enters a component. |
| void | [**mouseExited**](http://docs.google.com/java/awt/event/MouseAdapter.html#mouseExited(java.awt.event.MouseEvent))([MouseEvent](http://docs.google.com/java/awt/event/MouseEvent.html) e)            Invoked when the mouse exits a component. |
| void | [**mouseMoved**](http://docs.google.com/java/awt/event/MouseAdapter.html#mouseMoved(java.awt.event.MouseEvent))([MouseEvent](http://docs.google.com/java/awt/event/MouseEvent.html) e)            Invoked when the mouse cursor has been moved onto a component but no buttons have been pushed. |
| void | [**mousePressed**](http://docs.google.com/java/awt/event/MouseAdapter.html#mousePressed(java.awt.event.MouseEvent))([MouseEvent](http://docs.google.com/java/awt/event/MouseEvent.html) e)            Invoked when a mouse button has been pressed on a component. |
| void | [**mouseReleased**](http://docs.google.com/java/awt/event/MouseAdapter.html#mouseReleased(java.awt.event.MouseEvent))([MouseEvent](http://docs.google.com/java/awt/event/MouseEvent.html) e)            Invoked when a mouse button has been released on a component. |
| void | [**mouseWheelMoved**](http://docs.google.com/java/awt/event/MouseAdapter.html#mouseWheelMoved(java.awt.event.MouseWheelEvent))([MouseWheelEvent](http://docs.google.com/java/awt/event/MouseWheelEvent.html) e)            Invoked when the mouse wheel is rotated. |

| **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** |
| --- |

### MouseAdapter

public **MouseAdapter**()

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

### mouseClicked

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

Invoked when the mouse button has been clicked (pressed and released) on a component.

**Specified by:**[mouseClicked](http://docs.google.com/java/awt/event/MouseListener.html#mouseClicked(java.awt.event.MouseEvent)) in interface [MouseListener](http://docs.google.com/java/awt/event/MouseListener.html)

### mousePressed

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

Invoked when a mouse button has been pressed on a component.

**Specified by:**[mousePressed](http://docs.google.com/java/awt/event/MouseListener.html#mousePressed(java.awt.event.MouseEvent)) in interface [MouseListener](http://docs.google.com/java/awt/event/MouseListener.html)

### mouseReleased

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

Invoked when a mouse button has been released on a component.

**Specified by:**[mouseReleased](http://docs.google.com/java/awt/event/MouseListener.html#mouseReleased(java.awt.event.MouseEvent)) in interface [MouseListener](http://docs.google.com/java/awt/event/MouseListener.html)

### mouseEntered

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

Invoked when the mouse enters a component.

**Specified by:**[mouseEntered](http://docs.google.com/java/awt/event/MouseListener.html#mouseEntered(java.awt.event.MouseEvent)) in interface [MouseListener](http://docs.google.com/java/awt/event/MouseListener.html)

### mouseExited

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

Invoked when the mouse exits a component.

**Specified by:**[mouseExited](http://docs.google.com/java/awt/event/MouseListener.html#mouseExited(java.awt.event.MouseEvent)) in interface [MouseListener](http://docs.google.com/java/awt/event/MouseListener.html)

### mouseWheelMoved

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

Invoked when the mouse wheel is rotated.

**Specified by:**[mouseWheelMoved](http://docs.google.com/java/awt/event/MouseWheelListener.html#mouseWheelMoved(java.awt.event.MouseWheelEvent)) in interface [MouseWheelListener](http://docs.google.com/java/awt/event/MouseWheelListener.html) **Since:** 1.6 **See Also:**[MouseWheelEvent](http://docs.google.com/java/awt/event/MouseWheelEvent.html)

### mouseDragged

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

Invoked when a mouse button is pressed on a component and then dragged. MOUSE\_DRAGGED events will continue to be delivered to the component where the drag originated until the mouse button is released (regardless of whether the mouse position is within the bounds of the component).

Due to platform-dependent Drag&Drop implementations, MOUSE\_DRAGGED events may not be delivered during a native Drag&Drop operation.

**Specified by:**[mouseDragged](http://docs.google.com/java/awt/event/MouseMotionListener.html#mouseDragged(java.awt.event.MouseEvent)) in interface [MouseMotionListener](http://docs.google.com/java/awt/event/MouseMotionListener.html) **Since:** 1.6

### mouseMoved

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

Invoked when the mouse cursor has been moved onto a component but no buttons have been pushed.

**Specified by:**[mouseMoved](http://docs.google.com/java/awt/event/MouseMotionListener.html#mouseMoved(java.awt.event.MouseEvent)) in interface [MouseMotionListener](http://docs.google.com/java/awt/event/MouseMotionListener.html) **Since:** 1.6

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