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

**All Superinterfaces:** [EventListener](http://docs.google.com/java/util/EventListener.html) **All Known Subinterfaces:** [MouseInputListener](http://docs.google.com/javax/swing/event/MouseInputListener.html) **All Known Implementing Classes:** [AWTEventMulticaster](http://docs.google.com/java/awt/AWTEventMulticaster.html), [BasicButtonListener](http://docs.google.com/javax/swing/plaf/basic/BasicButtonListener.html), [BasicComboPopup.InvocationMouseHandler](http://docs.google.com/javax/swing/plaf/basic/BasicComboPopup.InvocationMouseHandler.html), [BasicComboPopup.InvocationMouseMotionHandler](http://docs.google.com/javax/swing/plaf/basic/BasicComboPopup.InvocationMouseMotionHandler.html), [BasicComboPopup.ListMouseHandler](http://docs.google.com/javax/swing/plaf/basic/BasicComboPopup.ListMouseHandler.html), [BasicComboPopup.ListMouseMotionHandler](http://docs.google.com/javax/swing/plaf/basic/BasicComboPopup.ListMouseMotionHandler.html), [BasicDesktopIconUI.MouseInputHandler](http://docs.google.com/javax/swing/plaf/basic/BasicDesktopIconUI.MouseInputHandler.html), [BasicFileChooserUI.DoubleClickListener](http://docs.google.com/javax/swing/plaf/basic/BasicFileChooserUI.DoubleClickListener.html), [BasicInternalFrameUI.BorderListener](http://docs.google.com/javax/swing/plaf/basic/BasicInternalFrameUI.BorderListener.html), [BasicInternalFrameUI.GlassPaneDispatcher](http://docs.google.com/javax/swing/plaf/basic/BasicInternalFrameUI.GlassPaneDispatcher.html), [BasicListUI.MouseInputHandler](http://docs.google.com/javax/swing/plaf/basic/BasicListUI.MouseInputHandler.html), [BasicMenuItemUI.MouseInputHandler](http://docs.google.com/javax/swing/plaf/basic/BasicMenuItemUI.MouseInputHandler.html), [BasicMenuUI.MouseInputHandler](http://docs.google.com/javax/swing/plaf/basic/BasicMenuUI.MouseInputHandler.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), [BasicSliderUI.TrackListener](http://docs.google.com/javax/swing/plaf/basic/BasicSliderUI.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), [BasicTableHeaderUI.MouseInputHandler](http://docs.google.com/javax/swing/plaf/basic/BasicTableHeaderUI.MouseInputHandler.html), [BasicTableUI.MouseInputHandler](http://docs.google.com/javax/swing/plaf/basic/BasicTableUI.MouseInputHandler.html), [BasicTextUI.BasicCaret](http://docs.google.com/javax/swing/plaf/basic/BasicTextUI.BasicCaret.html), [BasicToolBarUI.DockingListener](http://docs.google.com/javax/swing/plaf/basic/BasicToolBarUI.DockingListener.html), [BasicTreeUI.MouseHandler](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.MouseHandler.html), [BasicTreeUI.MouseInputHandler](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.MouseInputHandler.html), [DefaultCaret](http://docs.google.com/javax/swing/text/DefaultCaret.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), [MetalToolBarUI.MetalDockingListener](http://docs.google.com/javax/swing/plaf/metal/MetalToolBarUI.MetalDockingListener.html), [MouseAdapter](http://docs.google.com/java/awt/event/MouseAdapter.html), [MouseDragGestureRecognizer](http://docs.google.com/java/awt/dnd/MouseDragGestureRecognizer.html), [MouseInputAdapter](http://docs.google.com/javax/swing/event/MouseInputAdapter.html), [MouseMotionAdapter](http://docs.google.com/java/awt/event/MouseMotionAdapter.html), [ToolTipManager](http://docs.google.com/javax/swing/ToolTipManager.html)

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

The listener interface for receiving mouse motion events on a component. (For clicks and other mouse events, use the MouseListener.)

The class that is interested in processing a mouse motion event either implements this interface (and all the methods it contains) or extends the abstract MouseMotionAdapter class (overriding only the methods of interest).

The listener object created from that class is then registered with a component using the component's addMouseMotionListener method. A mouse motion event is generated when the mouse is moved or dragged. (Many such events will be generated). When a mouse motion event occurs, the relevant method in the listener object is invoked, and the MouseEvent is passed to it.

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

| **Method Summary** | |
| --- | --- |
| void | [**mouseDragged**](http://docs.google.com/java/awt/event/MouseMotionListener.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 | [**mouseMoved**](http://docs.google.com/java/awt/event/MouseMotionListener.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. |

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

### mouseDragged

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.

### mouseMoved

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.

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