| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/MouseDragGestureRecognizer.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/dnd/InvalidDnDOperationException.html)   NEXT CLASS | [**FRAMES**](http://docs.google.com/index.html?java/awt/dnd/MouseDragGestureRecognizer.html)    [**NO FRAMES**](http://docs.google.com/MouseDragGestureRecognizer.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#2et92p0) | [CONSTR](#tyjcwt) | [METHOD](#3dy6vkm) | DETAIL: FIELD | [CONSTR](#2s8eyo1) | [METHOD](#35nkun2) |

## **java.awt.dnd**

Class MouseDragGestureRecognizer

[java.lang.Object](http://docs.google.com/java/lang/Object.html)  
 [java.awt.dnd.DragGestureRecognizer](http://docs.google.com/java/awt/dnd/DragGestureRecognizer.html)  
 **java.awt.dnd.MouseDragGestureRecognizer**

**All Implemented Interfaces:** [MouseListener](http://docs.google.com/java/awt/event/MouseListener.html), [MouseMotionListener](http://docs.google.com/java/awt/event/MouseMotionListener.html), [Serializable](http://docs.google.com/java/io/Serializable.html), [EventListener](http://docs.google.com/java/util/EventListener.html)

public abstract class **MouseDragGestureRecognizer**extends [DragGestureRecognizer](http://docs.google.com/java/awt/dnd/DragGestureRecognizer.html)implements [MouseListener](http://docs.google.com/java/awt/event/MouseListener.html), [MouseMotionListener](http://docs.google.com/java/awt/event/MouseMotionListener.html)

This abstract subclass of DragGestureRecognizer defines a DragGestureRecognizer for mouse-based gestures. Each platform implements its own concrete subclass of this class, available via the Toolkit.createDragGestureRecognizer() method, to encapsulate the recognition of the platform dependent mouse gesture(s) that initiate a Drag and Drop operation.

Mouse drag gesture recognizers should honor the drag gesture motion threshold, available through [DragSource.getDragThreshold()](http://docs.google.com/java/awt/dnd/DragSource.html#getDragThreshold()). A drag gesture should be recognized only when the distance in either the horizontal or vertical direction between the location of the latest mouse dragged event and the location of the corresponding mouse button pressed event is greater than the drag gesture motion threshold.

Drag gesture recognizers created with [DragSource.createDefaultDragGestureRecognizer(java.awt.Component, int, java.awt.dnd.DragGestureListener)](http://docs.google.com/java/awt/dnd/DragSource.html#createDefaultDragGestureRecognizer(java.awt.Component,%20int,%20java.awt.dnd.DragGestureListener)) follow this convention.

**See Also:**[DragGestureListener](http://docs.google.com/java/awt/dnd/DragGestureListener.html), [DragGestureEvent](http://docs.google.com/java/awt/dnd/DragGestureEvent.html), [DragSource](http://docs.google.com/java/awt/dnd/DragSource.html), [Serialized Form](http://docs.google.com/serialized-form.html#java.awt.dnd.MouseDragGestureRecognizer)

| **Field Summary** | |
| --- | --- |

| **Fields inherited from class java.awt.dnd.**[**DragGestureRecognizer**](http://docs.google.com/java/awt/dnd/DragGestureRecognizer.html) |
| --- |
| [component](http://docs.google.com/java/awt/dnd/DragGestureRecognizer.html#component), [dragGestureListener](http://docs.google.com/java/awt/dnd/DragGestureRecognizer.html#dragGestureListener), [dragSource](http://docs.google.com/java/awt/dnd/DragGestureRecognizer.html#dragSource), [events](http://docs.google.com/java/awt/dnd/DragGestureRecognizer.html#events), [sourceActions](http://docs.google.com/java/awt/dnd/DragGestureRecognizer.html#sourceActions) |

| **Constructor Summary** | |
| --- | --- |
| protected | [**MouseDragGestureRecognizer**](http://docs.google.com/java/awt/dnd/MouseDragGestureRecognizer.html#MouseDragGestureRecognizer(java.awt.dnd.DragSource))([DragSource](http://docs.google.com/java/awt/dnd/DragSource.html) ds)            Construct a new MouseDragGestureRecognizer given the DragSource for the Component. |
| protected | [**MouseDragGestureRecognizer**](http://docs.google.com/java/awt/dnd/MouseDragGestureRecognizer.html#MouseDragGestureRecognizer(java.awt.dnd.DragSource,%20java.awt.Component))([DragSource](http://docs.google.com/java/awt/dnd/DragSource.html) ds, [Component](http://docs.google.com/java/awt/Component.html) c)            Construct a new MouseDragGestureRecognizer given the DragSource for the Component c, and the Component to observe. |
| protected | [**MouseDragGestureRecognizer**](http://docs.google.com/java/awt/dnd/MouseDragGestureRecognizer.html#MouseDragGestureRecognizer(java.awt.dnd.DragSource,%20java.awt.Component,%20int))([DragSource](http://docs.google.com/java/awt/dnd/DragSource.html) ds, [Component](http://docs.google.com/java/awt/Component.html) c, int act)            Construct a new MouseDragGestureRecognizer given the DragSource for the Component c, the Component to observe, and the action(s) permitted for this drag operation. |
| protected | [**MouseDragGestureRecognizer**](http://docs.google.com/java/awt/dnd/MouseDragGestureRecognizer.html#MouseDragGestureRecognizer(java.awt.dnd.DragSource,%20java.awt.Component,%20int,%20java.awt.dnd.DragGestureListener))([DragSource](http://docs.google.com/java/awt/dnd/DragSource.html) ds, [Component](http://docs.google.com/java/awt/Component.html) c, int act, [DragGestureListener](http://docs.google.com/java/awt/dnd/DragGestureListener.html) dgl)            Construct a new MouseDragGestureRecognizer given the DragSource for the Component c, the Component to observe, the action(s) permitted for this drag operation, and the DragGestureListener to notify when a drag gesture is detected. |

| **Method Summary** | |
| --- | --- |
| void | [**mouseClicked**](http://docs.google.com/java/awt/dnd/MouseDragGestureRecognizer.html#mouseClicked(java.awt.event.MouseEvent))([MouseEvent](http://docs.google.com/java/awt/event/MouseEvent.html) e)            Invoked when the mouse has been clicked on a component. |
| void | [**mouseDragged**](http://docs.google.com/java/awt/dnd/MouseDragGestureRecognizer.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. |
| void | [**mouseEntered**](http://docs.google.com/java/awt/dnd/MouseDragGestureRecognizer.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/dnd/MouseDragGestureRecognizer.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/dnd/MouseDragGestureRecognizer.html#mouseMoved(java.awt.event.MouseEvent))([MouseEvent](http://docs.google.com/java/awt/event/MouseEvent.html) e)            Invoked when the mouse button has been moved on a component (with no buttons no down). |
| void | [**mousePressed**](http://docs.google.com/java/awt/dnd/MouseDragGestureRecognizer.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/dnd/MouseDragGestureRecognizer.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. |
| protected  void | [**registerListeners**](http://docs.google.com/java/awt/dnd/MouseDragGestureRecognizer.html#registerListeners())()            register this DragGestureRecognizer's Listeners with the Component |
| protected  void | [**unregisterListeners**](http://docs.google.com/java/awt/dnd/MouseDragGestureRecognizer.html#unregisterListeners())()            unregister this DragGestureRecognizer's Listeners with the Component subclasses must override this method |

| **Methods inherited from class java.awt.dnd.**[**DragGestureRecognizer**](http://docs.google.com/java/awt/dnd/DragGestureRecognizer.html) |
| --- |
| [addDragGestureListener](http://docs.google.com/java/awt/dnd/DragGestureRecognizer.html#addDragGestureListener(java.awt.dnd.DragGestureListener)), [appendEvent](http://docs.google.com/java/awt/dnd/DragGestureRecognizer.html#appendEvent(java.awt.event.InputEvent)), [fireDragGestureRecognized](http://docs.google.com/java/awt/dnd/DragGestureRecognizer.html#fireDragGestureRecognized(int,%20java.awt.Point)), [getComponent](http://docs.google.com/java/awt/dnd/DragGestureRecognizer.html#getComponent()), [getDragSource](http://docs.google.com/java/awt/dnd/DragGestureRecognizer.html#getDragSource()), [getSourceActions](http://docs.google.com/java/awt/dnd/DragGestureRecognizer.html#getSourceActions()), [getTriggerEvent](http://docs.google.com/java/awt/dnd/DragGestureRecognizer.html#getTriggerEvent()), [removeDragGestureListener](http://docs.google.com/java/awt/dnd/DragGestureRecognizer.html#removeDragGestureListener(java.awt.dnd.DragGestureListener)), [resetRecognizer](http://docs.google.com/java/awt/dnd/DragGestureRecognizer.html#resetRecognizer()), [setComponent](http://docs.google.com/java/awt/dnd/DragGestureRecognizer.html#setComponent(java.awt.Component)), [setSourceActions](http://docs.google.com/java/awt/dnd/DragGestureRecognizer.html#setSourceActions(int)) |

| **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** |
| --- |

### MouseDragGestureRecognizer

protected **MouseDragGestureRecognizer**([DragSource](http://docs.google.com/java/awt/dnd/DragSource.html) ds,  
 [Component](http://docs.google.com/java/awt/Component.html) c,  
 int act,  
 [DragGestureListener](http://docs.google.com/java/awt/dnd/DragGestureListener.html) dgl)

Construct a new MouseDragGestureRecognizer given the DragSource for the Component c, the Component to observe, the action(s) permitted for this drag operation, and the DragGestureListener to notify when a drag gesture is detected.

**Parameters:**ds - The DragSource for the Component cc - The Component to observeact - The actions permitted for this Dragdgl - The DragGestureListener to notify when a gesture is detected

### MouseDragGestureRecognizer

protected **MouseDragGestureRecognizer**([DragSource](http://docs.google.com/java/awt/dnd/DragSource.html) ds,  
 [Component](http://docs.google.com/java/awt/Component.html) c,  
 int act)

Construct a new MouseDragGestureRecognizer given the DragSource for the Component c, the Component to observe, and the action(s) permitted for this drag operation.

**Parameters:**ds - The DragSource for the Component cc - The Component to observeact - The actions permitted for this drag

### MouseDragGestureRecognizer

protected **MouseDragGestureRecognizer**([DragSource](http://docs.google.com/java/awt/dnd/DragSource.html) ds,  
 [Component](http://docs.google.com/java/awt/Component.html) c)

Construct a new MouseDragGestureRecognizer given the DragSource for the Component c, and the Component to observe.

**Parameters:**ds - The DragSource for the Component cc - The Component to observe

### MouseDragGestureRecognizer

protected **MouseDragGestureRecognizer**([DragSource](http://docs.google.com/java/awt/dnd/DragSource.html) ds)

Construct a new MouseDragGestureRecognizer given the DragSource for the Component.

**Parameters:**ds - The DragSource for the Component

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

### registerListeners

protected void **registerListeners**()

register this DragGestureRecognizer's Listeners with the Component

**Specified by:**[registerListeners](http://docs.google.com/java/awt/dnd/DragGestureRecognizer.html#registerListeners()) in class [DragGestureRecognizer](http://docs.google.com/java/awt/dnd/DragGestureRecognizer.html)

### unregisterListeners

protected void **unregisterListeners**()

unregister this DragGestureRecognizer's Listeners with the Component subclasses must override this method

**Specified by:**[unregisterListeners](http://docs.google.com/java/awt/dnd/DragGestureRecognizer.html#unregisterListeners()) in class [DragGestureRecognizer](http://docs.google.com/java/awt/dnd/DragGestureRecognizer.html)

### mouseClicked

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

Invoked when the mouse has been clicked 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) **Parameters:**e - the MouseEvent

### 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) **Parameters:**e - the MouseEvent

### 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) **Parameters:**e - the MouseEvent

### 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) **Parameters:**e - the MouseEvent

### 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) **Parameters:**e - the MouseEvent

### 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.

**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) **Parameters:**e - the MouseEvent

### mouseMoved

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

Invoked when the mouse button has been moved on a component (with no buttons no down).

**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) **Parameters:**e - the MouseEvent

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/MouseDragGestureRecognizer.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/dnd/InvalidDnDOperationException.html)   NEXT CLASS | [**FRAMES**](http://docs.google.com/index.html?java/awt/dnd/MouseDragGestureRecognizer.html)    [**NO FRAMES**](http://docs.google.com/MouseDragGestureRecognizer.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
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[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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