# SWING - MOUSEEVENT CLASS

This event indicates a mouse action occurred in a component. This low-level event is generated by a component object for Mouse Events and Mouse motion events.

- a mouse button is pressed

- a mouse button is released

- a mouse button is clicked *pressedandreleased*

- a mouse cursor enters the unobscured part of component's geometry

- a mouse cursor exits the unobscured part of component's geometry

- a mouse is moved

- the mouse is dragged

## Class declaration

Following is the declaration for **java.awt.event.MouseEvent** class:

```
public class MouseEvent
    extends InputEvent
```

## Field

Following are the fields for **java.awt.event.MouseEvent** class:

- **static int BUTTON1** -- Indicates mouse button #1; used by getButton

- **static int BUTTON2** -- Indicates mouse button #2; used by getButton

- **static int BUTTON3** -- Indicates mouse button #3; used by getButton

- **static int MOUSE_CLICKED** -- The "mouse clicked" event

- **static int MOUSE_DRAGGED** -- The "mouse dragged" event

- **static int MOUSE_ENTERED** -- The "mouse entered" event

- **static int MOUSE_EXITED** -- The "mouse exited" event

- **static int MOUSE_FIRST** -- The first number in the range of ids used for mouse events

- **static int MOUSE_LAST** -- The last number in the range of ids used for mouse events

- **static int MOUSE_MOVED** -- The "mouse moved" event

- **static int MOUSE_PRESSED** -- The "mouse pressed" event

- **static int MOUSE_RELEASED** -- The "mouse released" event

- **static int MOUSE_WHEEL** -- The "mouse wheel" event

- **static int NOBUTTON** -- Indicates no mouse buttons; used by getButton

- **static int VK_WINDOWS** -- Constant for the Microsoft Windows "Windows" key.

## Class constructors

| S.N. | Constructor & Description |
|---|---|
| 1 | **MouseEvent***Componentsource, intid, longwhen, intmodifiers, intx, inty, intclickCount, booleanpopupTrigger*<br><br>Constructs a MouseEvent object with the specified source component, type, modifiers, coordinates, and click count. |

| 2 | **MouseEvent***Componentsource, intid, longwhen, intmodifiers, intx, inty, intclickCount, booleanpopupTrigger, intbutton* |
|---|---|
| | Constructs a MouseEvent object with the specified source component, type, modifiers, coordinates, and click count. |
| 3 | **MouseEvent** *Componentsource, intid, longwhen, intmodifiers, intx, inty, intxAbs, intyAbs, intclickCount, booleanpopupTrigger, intbutton* |
| | Constructs a MouseEvent object with the specified source component, type, modifiers, coordinates, absolute coordinates, and click count. |

## Class methods

| S.N. | Method & Description |
|------|---------------------|
| 1 | **int getButton** |
| | Returns which, if any, of the mouse buttons has changed state. |
| 2 | **int getClickCount** |
| | Returns the number of mouse clicks associated with this event. |
| 3 | **Point getLocationOnScreen** |
| | Returns the absolute x, y position of the event. |
| 4 | **static String getMouseModifiersText***intmodifiers* |
| | Returns a String describing the modifier keys and mouse buttons that were down during the event, such as "Shift", or "Ctrl+Shift". |
| 5 | **Point getPoint** |
| | Returns the x,y position of the event relative to the source component. |
| 6 | **int getX** |
| | Returns the horizontal x position of the event relative to the source component. |
| 7 | **int getXOnScreen** |
| | Returns the absolute horizontal x position of the event. |
| 8 | **int getY** |
| | Returns the vertical y position of the event relative to the source component. |
| 9 | **int getYOnScreen** |
| | Returns the absolute vertical y position of the event. |
| 10 | **boolean isPopupTrigger** |
| | Returns whether or not this mouse event is the popup menu trigger event for the platform. |
| 11 | **String paramString** |
| | Returns a parameter string identifying this event. |

12    **void translatePoint***intx, inty*

Translates the event's coordinates to a new position by adding specified x *horizontal* and y *vertical* offsets.

## Methods inherited

This class inherits methods from the following classes:

- java.awt.event.InputEvent

- java.awt.event.ComponentEvent

- java.awt.AWTEvent

- java.util.EventObject

- java.lang.Object