| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/MouseEvent.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/org/w3c/dom/events/EventTarget.html)   [**NEXT CLASS**](http://docs.google.com/org/w3c/dom/events/MutationEvent.html) | [**FRAMES**](http://docs.google.com/index.html?org/w3c/dom/events/MouseEvent.html)    [**NO FRAMES**](http://docs.google.com/MouseEvent.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | CONSTR | [METHOD](#tyjcwt) | DETAIL: FIELD | CONSTR | [METHOD](#4d34og8) |

## **org.w3c.dom.events**

Interface MouseEvent

**All Superinterfaces:** [Event](http://docs.google.com/org/w3c/dom/events/Event.html), [UIEvent](http://docs.google.com/org/w3c/dom/events/UIEvent.html)

public interface **MouseEvent**extends [UIEvent](http://docs.google.com/org/w3c/dom/events/UIEvent.html)

The MouseEvent interface provides specific contextual information associated with Mouse events.

The detail attribute inherited from UIEvent indicates the number of times a mouse button has been pressed and released over the same screen location during a user action. The attribute value is 1 when the user begins this action and increments by 1 for each full sequence of pressing and releasing. If the user moves the mouse between the mousedown and mouseup the value will be set to 0, indicating that no click is occurring.

In the case of nested elements mouse events are always targeted at the most deeply nested element. Ancestors of the targeted element may use bubbling to obtain notification of mouse events which occur within its descendent elements.

See also the [Document Object Model (DOM) Level 2 Events Specification](http://www.w3.org/TR/2000/REC-DOM-Level-2-Events-20001113).

**Since:** DOM Level 2

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

| **Fields inherited from interface org.w3c.dom.events.**[**Event**](http://docs.google.com/org/w3c/dom/events/Event.html) |
| --- |
| [AT\_TARGET](http://docs.google.com/org/w3c/dom/events/Event.html#AT_TARGET), [BUBBLING\_PHASE](http://docs.google.com/org/w3c/dom/events/Event.html#BUBBLING_PHASE), [CAPTURING\_PHASE](http://docs.google.com/org/w3c/dom/events/Event.html#CAPTURING_PHASE) |

| **Method Summary** | |
| --- | --- |
| boolean | [**getAltKey**](http://docs.google.com/org/w3c/dom/events/MouseEvent.html#getAltKey())()            Used to indicate whether the 'alt' key was depressed during the firing of the event. |
| short | [**getButton**](http://docs.google.com/org/w3c/dom/events/MouseEvent.html#getButton())()            During mouse events caused by the depression or release of a mouse button, button is used to indicate which mouse button changed state. |
| int | [**getClientX**](http://docs.google.com/org/w3c/dom/events/MouseEvent.html#getClientX())()            The horizontal coordinate at which the event occurred relative to the DOM implementation's client area. |
| int | [**getClientY**](http://docs.google.com/org/w3c/dom/events/MouseEvent.html#getClientY())()            The vertical coordinate at which the event occurred relative to the DOM implementation's client area. |
| boolean | [**getCtrlKey**](http://docs.google.com/org/w3c/dom/events/MouseEvent.html#getCtrlKey())()            Used to indicate whether the 'ctrl' key was depressed during the firing of the event. |
| boolean | [**getMetaKey**](http://docs.google.com/org/w3c/dom/events/MouseEvent.html#getMetaKey())()            Used to indicate whether the 'meta' key was depressed during the firing of the event. |
| [EventTarget](http://docs.google.com/org/w3c/dom/events/EventTarget.html) | [**getRelatedTarget**](http://docs.google.com/org/w3c/dom/events/MouseEvent.html#getRelatedTarget())()            Used to identify a secondary EventTarget related to a UI event. |
| int | [**getScreenX**](http://docs.google.com/org/w3c/dom/events/MouseEvent.html#getScreenX())()            The horizontal coordinate at which the event occurred relative to the origin of the screen coordinate system. |
| int | [**getScreenY**](http://docs.google.com/org/w3c/dom/events/MouseEvent.html#getScreenY())()            The vertical coordinate at which the event occurred relative to the origin of the screen coordinate system. |
| boolean | [**getShiftKey**](http://docs.google.com/org/w3c/dom/events/MouseEvent.html#getShiftKey())()            Used to indicate whether the 'shift' key was depressed during the firing of the event. |
| void | [**initMouseEvent**](http://docs.google.com/org/w3c/dom/events/MouseEvent.html#initMouseEvent(java.lang.String,%20boolean,%20boolean,%20org.w3c.dom.views.AbstractView,%20int,%20int,%20int,%20int,%20int,%20boolean,%20boolean,%20boolean,%20boolean,%20short,%20org.w3c.dom.events.EventTarget))([String](http://docs.google.com/java/lang/String.html) typeArg, boolean canBubbleArg, boolean cancelableArg, org.w3c.dom.views.AbstractView viewArg, int detailArg, int screenXArg, int screenYArg, int clientXArg, int clientYArg, boolean ctrlKeyArg, boolean altKeyArg, boolean shiftKeyArg, boolean metaKeyArg, short buttonArg, [EventTarget](http://docs.google.com/org/w3c/dom/events/EventTarget.html) relatedTargetArg)            The initMouseEvent method is used to initialize the value of a MouseEvent created through the DocumentEvent interface. |

| **Methods inherited from interface org.w3c.dom.events.**[**UIEvent**](http://docs.google.com/org/w3c/dom/events/UIEvent.html) |
| --- |
| [getDetail](http://docs.google.com/org/w3c/dom/events/UIEvent.html#getDetail()), [getView](http://docs.google.com/org/w3c/dom/events/UIEvent.html#getView()), [initUIEvent](http://docs.google.com/org/w3c/dom/events/UIEvent.html#initUIEvent(java.lang.String,%20boolean,%20boolean,%20org.w3c.dom.views.AbstractView,%20int)) |

| **Methods inherited from interface org.w3c.dom.events.**[**Event**](http://docs.google.com/org/w3c/dom/events/Event.html) |
| --- |
| [getBubbles](http://docs.google.com/org/w3c/dom/events/Event.html#getBubbles()), [getCancelable](http://docs.google.com/org/w3c/dom/events/Event.html#getCancelable()), [getCurrentTarget](http://docs.google.com/org/w3c/dom/events/Event.html#getCurrentTarget()), [getEventPhase](http://docs.google.com/org/w3c/dom/events/Event.html#getEventPhase()), [getTarget](http://docs.google.com/org/w3c/dom/events/Event.html#getTarget()), [getTimeStamp](http://docs.google.com/org/w3c/dom/events/Event.html#getTimeStamp()), [getType](http://docs.google.com/org/w3c/dom/events/Event.html#getType()), [initEvent](http://docs.google.com/org/w3c/dom/events/Event.html#initEvent(java.lang.String,%20boolean,%20boolean)), [preventDefault](http://docs.google.com/org/w3c/dom/events/Event.html#preventDefault()), [stopPropagation](http://docs.google.com/org/w3c/dom/events/Event.html#stopPropagation()) |

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

### getScreenX

int **getScreenX**()

The horizontal coordinate at which the event occurred relative to the origin of the screen coordinate system.

### getScreenY

int **getScreenY**()

The vertical coordinate at which the event occurred relative to the origin of the screen coordinate system.

### getClientX

int **getClientX**()

The horizontal coordinate at which the event occurred relative to the DOM implementation's client area.

### getClientY

int **getClientY**()

The vertical coordinate at which the event occurred relative to the DOM implementation's client area.

### getCtrlKey

boolean **getCtrlKey**()

Used to indicate whether the 'ctrl' key was depressed during the firing of the event.

### getShiftKey

boolean **getShiftKey**()

Used to indicate whether the 'shift' key was depressed during the firing of the event.

### getAltKey

boolean **getAltKey**()

Used to indicate whether the 'alt' key was depressed during the firing of the event. On some platforms this key may map to an alternative key name.

### getMetaKey

boolean **getMetaKey**()

Used to indicate whether the 'meta' key was depressed during the firing of the event. On some platforms this key may map to an alternative key name.

### getButton

short **getButton**()

During mouse events caused by the depression or release of a mouse button, button is used to indicate which mouse button changed state. The values for button range from zero to indicate the left button of the mouse, one to indicate the middle button if present, and two to indicate the right button. For mice configured for left handed use in which the button actions are reversed the values are instead read from right to left.

### getRelatedTarget

[EventTarget](http://docs.google.com/org/w3c/dom/events/EventTarget.html) **getRelatedTarget**()

Used to identify a secondary EventTarget related to a UI event. Currently this attribute is used with the mouseover event to indicate the EventTarget which the pointing device exited and with the mouseout event to indicate the EventTarget which the pointing device entered.

### initMouseEvent

void **initMouseEvent**([String](http://docs.google.com/java/lang/String.html) typeArg,  
 boolean canBubbleArg,  
 boolean cancelableArg,  
 org.w3c.dom.views.AbstractView viewArg,  
 int detailArg,  
 int screenXArg,  
 int screenYArg,  
 int clientXArg,  
 int clientYArg,  
 boolean ctrlKeyArg,  
 boolean altKeyArg,  
 boolean shiftKeyArg,  
 boolean metaKeyArg,  
 short buttonArg,  
 [EventTarget](http://docs.google.com/org/w3c/dom/events/EventTarget.html) relatedTargetArg)

The initMouseEvent method is used to initialize the value of a MouseEvent created through the DocumentEvent interface. This method may only be called before the MouseEvent has been dispatched via the dispatchEvent method, though it may be called multiple times during that phase if necessary. If called multiple times, the final invocation takes precedence.

**Parameters:**typeArg - Specifies the event type.canBubbleArg - Specifies whether or not the event can bubble.cancelableArg - Specifies whether or not the event's default action can be prevented.viewArg - Specifies the Event's AbstractView.detailArg - Specifies the Event's mouse click count.screenXArg - Specifies the Event's screen x coordinatescreenYArg - Specifies the Event's screen y coordinateclientXArg - Specifies the Event's client x coordinateclientYArg - Specifies the Event's client y coordinatectrlKeyArg - Specifies whether or not control key was depressed during the Event.altKeyArg - Specifies whether or not alt key was depressed during the Event.shiftKeyArg - Specifies whether or not shift key was depressed during the Event.metaKeyArg - Specifies whether or not meta key was depressed during the Event.buttonArg - Specifies the Event's mouse button.relatedTargetArg - Specifies the Event's related EventTarget.

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/MouseEvent.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/org/w3c/dom/events/EventTarget.html)   [**NEXT CLASS**](http://docs.google.com/org/w3c/dom/events/MutationEvent.html) | [**FRAMES**](http://docs.google.com/index.html?org/w3c/dom/events/MouseEvent.html)    [**NO FRAMES**](http://docs.google.com/MouseEvent.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | CONSTR | [METHOD](#tyjcwt) | DETAIL: FIELD | CONSTR | [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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