

# JSEvent

## Constants Summary

|        |                                                                                                    |
|--------|----------------------------------------------------------------------------------------------------|
| String | <a href="#">ACTION</a><br>Constant returned by JSEvent.                                            |
| String | <a href="#">DATACHANGE</a><br>Constant returned by JSEvent.                                        |
| String | <a href="#">DOUBLECLICK</a><br>Constant returned by JSEvent.                                       |
| String | <a href="#">FOCUSGAINED</a><br>Constant returned by JSEvent.                                       |
| String | <a href="#">FOCUSLOST</a><br>Constant returned by JSEvent.                                         |
| String | <a href="#">FORM</a><br>Constant returned by JSEvent.                                              |
| Number | <a href="#">MODIFIER_ALT</a><br>Constant for the ALT modifier that can be returned by JSEvent.     |
| Number | <a href="#">MODIFIER_CTRL</a><br>Constant for the CTRL modifier that can be returned by JSEvent.   |
| Number | <a href="#">MODIFIER_META</a><br>Constant for the META modifier that can be returned by JSEvent.   |
| Number | <a href="#">MODIFIER_SHIFT</a><br>Constant for the SHIFT modifier that can be returned by JSEvent. |
| String | <a href="#">NONE</a><br>Constant returned by JSEvent.                                              |
| String | <a href="#">RIGHTCLICK</a><br>Constant returned by JSEvent.                                        |

## Property Summary

|        |                                                                                                                                           |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------|
| Object | <a href="#">data</a><br>A data object that specific events can set, a user can set data back to the system for events that supports this. |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------|

## Method Summary

|        |                                                                                                                           |
|--------|---------------------------------------------------------------------------------------------------------------------------|
| String | <a href="#">getElementName()</a><br>returns the name of the element, can be null if the form was the source of the event. |
| String | <a href="#">getFormName()</a><br>returns the name of the form the element was placed on.                                  |
| Number | <a href="#">getModifiers()</a><br>Returns the modifiers of the event, see JSEvent.                                        |
| Object | <a href="#">getSource()</a><br>returns the source component/element of the event.                                         |
| Date   | <a href="#">getTimestamp()</a><br>Returns the time the event occurred.                                                    |
| String | <a href="#">getType()</a><br>returns the event type see the JSEvents constants what it can return.                        |
| Number | <a href="#">getX()</a><br>Returns the x position of the event, relative to the component that fired it, if applicable.    |
| Number | <a href="#">getY()</a><br>Returns the y position of the event, relative to the component that fired it, if applicable.    |

## Constants Details

### ACTION

Constant returned by JSEvent.getType() in a method that is attached to an onAction event.

### Returns

String

### Sample

```
if (event.getType() == JSEvent.ACTION)
{
    // its an action event.
}
```

### DATACHANGE

Constant returned by JSEvent.getType() in a method that is attached to an onDataChange event.

#### Returns

[String](#)

### Sample

```
if (event.getType() == JSEvent.DATACHANGE)
{
    // its a data change event
}
```

### DOUBLECLICK

Constant returned by JSEvent.getType() in a method that is attached to an onDoubleClick event.

#### Returns

[String](#)

### Sample

```
if (event.getType() == JSEvent.DOUBLECLICK)
{
    // its a double click event.
}
```

### FOCUSGAINED

Constant returned by JSEvent.getType() in a method that is attached to an onFocusGained or the forms onElementFocusGained event.

#### Returns

[String](#)

### Sample

```
if (event.getType() == JSEvent.FOCUSGAINED)
{
    // its a focus gained event.
}
```

### FOCUSLOST

Constant returned by JSEvent.getType() in a method that is attached to an onFocusLost or the forms onElementFocusLost event.

#### Returns

[String](#)

### Sample

```
if (event.getType() == JSEvent.FOCUSLOST)
{
    // its a focus lost event.
}
```

### FORM

Constant returned by JSEvent.getType() in a method that is attached to a form event (like onShow) or command (like onDeleteRecord)

## Returns

[String](#)

## Sample

```
if (event.getType() == JSEvent.FORM)
{
    // its a form event or command
}
```

## MODIFIER\_ALT

Constant for the ALT modifier that can be returned by JSEvent.getModifiers();

## Returns

[Number](#)

## Sample

```
//test if the SHIFT modifier is used.
if (event.getModifiers() & JSEvent.MODIFIER_SHIFT)
{
    //do shift action
}
```

## MODIFIER\_CTRL

Constant for the CTRL modifier that can be returned by JSEvent.getModifiers();

## Returns

[Number](#)

## Sample

```
//test if the SHIFT modifier is used.
if (event.getModifiers() & JSEvent.MODIFIER_SHIFT)
{
    //do shift action
}
```

## MODIFIER\_META

Constant for the META modifier that can be returned by JSEvent.getModifiers();

## Returns

[Number](#)

## Sample

```
//test if the SHIFT modifier is used.
if (event.getModifiers() & JSEvent.MODIFIER_SHIFT)
{
    //do shift action
}
```

## MODIFIER\_SHIFT

Constant for the SHIFT modifier that can be returned by JSEvent.getModifiers();

## Returns

[Number](#)

### Sample

```
//test if the SHIFT modifier is used.
if (event.getModifiers() & JSEvent.MODIFIER_SHIFT)
{
    //do shift action
}
```

### NONE

Constant returned by JSEvent.getType() if the event is not used in a known event or command.

#### Returns

[String](#)

### Sample

```
if (event.getType() == JSEvent.NONE)
{
    // type is not set.
}
```

### RIGHTCLICK

Constant returned by JSEvent.getType() in a method that is attached to an onRightClick event.

#### Returns

[String](#)

### Sample

```
if (event.getType() == JSEvent.RIGHTCLICK)
{
    // its a right click event.
}
```

### Property Details

#### data

A data object that specific events can set, a user can set data back to the system for events that supports this.

#### Returns

[Object](#)

## Sample

```
// A client design method that handles ondrag
if (event.getType() == JSEvent.ONDRAG)
{
    // the data is the selected elements array
    var elements = event.data;
    // only start a client design drag when there is 1 element
    if (elements.length == 1)
    {
        return true;
    }
}

// code for a data drag method
event.data = "drag me!";
return DRAGNDROP.COPY;

// code for a data drop method
var data = event.data;
elements[event.getElementName()].setText(data);
return true;
```

## Method Details

### getElementName

[String](#) **getElementName** ()

returns the name of the element, can be null if the form was the source of the event.

#### Returns

[String](#) - a String representing the element name.

#### Sample

```
if (event.getElementName() == 'myElement')
{
    elements[event.getElementName()].bgcolor = '#ff0000';
}
```

### getFormName

[String](#) **getFormName** ()

returns the name of the form the element was placed on.

#### Returns

[String](#) - a String representing the form name.

#### Sample

```
forms[event.getFormName()].myFormMethod();
```

### getModifiers

[Number](#) **getModifiers** ()

Returns the modifiers of the event, see JSEvent.MODIFIER\_XXXX for the modifiers that can be returned.

#### Returns

[Number](#) - an int which holds the modifiers as a bitset.

## Sample

```
//test if the SHIFT modifier is used.
if (event.getModifiers() & JSEvent.MODIFIER_SHIFT)
{
    //do shift action
}
```

## getSource

**Object** `getSource ()`

returns the source component/element of the event.

If it has a name the `getElementName()` is the name of this component.

### Returns

**Object** - an Object representing the source of this event.

## Sample

```
// cast to runtime text field (change to another kind of type if you know the type)
/** @type {RuntimeTextField} */
var source = event.getSource();
var sourceDataProvider = source.getDataProviderID();
```

## getTimestamp

**Date** `getTimestamp ()`

Returns the time the event occurred.

### Returns

**Date** - a Date when this event happened.

## Sample

```
event.getTimestamp();
```

## getType

**String** `getType ()`

returns the event type see the JSEvents constants what it can return.

Plugins can create events with their own types.

### Returns

**String** - a String representing the type of this event.

## Sample

```
if (event.getType() == JSEvent.ACTION)
{
    // its an action event.
}
```

## getX

**Number** `getX ()`

Returns the x position of the event, relative to the component that fired it, if applicable.

For example drag'n'drop events will set the x,y positions.

### Returns

**Number** - an int representing the X position.

## Sample

```
var x = event.getX();
var xPrevious = previousEvent.getX();
var movedXPixels = x - xPrevious;
```

## getY

Number **getY()**

Returns the y position of the event, relative to the component that fired it, if applicable.  
For example drag'n'drop events will set the x,y positions.

### Returns

Number - an int representing the Y position.

### Sample

```
var y = event.getY();  
var yPrevious = previousEvent.getY();  
var movedYPixels = y - yPrevious;
```