

Slide 14.17: JavaScript for...in statement

Slide 14.19: JavaScript events (cont.)

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JavaScript Events

By using JavaScript, we have the ability to create dynamic web pages. Events are actions that can be detected by JavaScript. Every element on a web page has certain events which can trigger a JavaScript. For example, we can use the [onClick](#) event of a button element to indicate that a function will run when a user clicks on the button. We define the events in the HTML tags. Examples of events include:

- A mouse click
- A web page or an image loading
- Mousing over a hot spot on the web page
- Selecting an input box in an HTML form
- Submitting an HTML form
- A keystroke

Events are normally used in combination with functions, and the function will not be executed before the event occurs! Below is a list of the attributes that can be inserted into HTML tags to define event actions where

FF: Firefox, **N:** Netscape, **IE:** Internet Explorer

Attribute	The Event Occurs When...	FF	N	IE
onabort	Loading of an image is interrupted.	1	3	4
onblur	An element loses focus.	1	2	3
onchange	The user changes the content of a field.	1	2	3
onclick	Mouse clicks an object.	1	2	3
ondblclick	Mouse double-clicks an object.	1	4	4
onerror	An error occurs when loading a document or an image.	1	3	4
onfocus	An element gets focus.	1	2	3
onkeydown	A keyboard key is pressed.	1	4	3

<u>onkeypress</u>	A keyboard key is pressed or held down.	1	4	3
<u>onkeyup</u>	A keyboard key is released.	1	4	3
<u>onload</u>	A page or an image is finished loading.	1	2	3
<u>onmousedown</u>	A mouse button is pressed.	1	4	4
<u>onmousemove</u>	The mouse is moved.	1	6	3
<u>onmouseout</u>	The mouse is moved off an element.	1	4	4
<u>onmouseover</u>	The mouse is moved over an element.	1	2	3
<u>onmouseup</u>	A mouse button is released.	1	4	4
<u>onreset</u>	The reset button is clicked.	1	3	4
<u>onresize</u>	A window or frame is resized.	1	4	4
<u>onselect</u>	Text is selected.	1	2	3
<u>onsubmit</u>	The submit button is clicked.	1	2	3
<u>onunload</u>	The user exits the page.	1	2	3

Demonstration

The following demonstration shows how the script of HTML and JavaScript is displayed on the Web.


```
<html>
<head>
  <script type="text/javascript">
    function mouseOver( ) {

document.getElementById("b1").src="figure/b_blue.gif"
    }
    function mouseOut( ) {

document.getElementById("b1").src="figure/b_pink.gif"
    }
  </script>
</head>

<body>
  <a href="http://www.w3schools.com"
onmouseover="mouseOver()" onmouseout="mouseOut()">
  <img border="0" alt="Visit W3Schools!"
```

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