

# JavaScript Workshop

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Events

# What is an Event?

- JavaScript's interaction with HTML is handled through events that occur when a user or browser manipulates a page. When the page loads; when a user clicks a button (or hyperlink); when a user types in a text box; all are events.
- There are many ways to "handle" events (DOM object or Event object). For now (until next season) we will focus on the less standard but more common way to handle events (Event object).
- Events have a corresponding JavaScript keyword used like an attribute that can be assigned a custom function. This function will have your JavaScript code statements to respond to that particular event.

# Types of events

- There are 4 basic types of events:

*mouse events*

*keyboard events*

*HTML events (form elements)*

*mutation events (DOM elements)*

- The most common are mouse and HTML events.

*Mouse events: click, mouseover, mouseout, mousedown, mouseup*

*HTML events: load, unload, change, submit, reset, focus, resize*

# Event handlers

- Event handlers are predefined JavaScript keywords that are used within HTML tags. (incomplete list)

*<A>: onclick, onmouseup, onmousedown, onmouseover, onmouseup*

*<IMG>: onclick, onmouseup, onmousedown, onmouseover, onmouseup*

*<INPUT>: tabindex, onfocus, onselect, onchange, onclick, onkeypress*

*<SELECT>: onchange*

*<FORM>: onsubmit, onreset*

*<BODY>: onload, onunload*

# Using event handlers

- To use an event handler, you make the event handler equal to some custom JavaScript function (in quotes) you create.

*<html element event handler = "JavaScript function();">*

*<A HREF = "javascript:void(0);" onclick = "function();" > click me </A>*

*<FORM> <INPUT TYPE = "button" onclick = "function();" > </FORM>*

*<BODY onload = "function();">*

*<IMG src = "image.gif" onmouseover = "function();">*

## Event handlers are used for:

- Display messages to the user.
- Manipulate images for effects (rollover effects).
- Initiate processing behind the scenes (form validation).
- Allow user interaction with page content (DOM).

- JavaScript Workshop website:  
<http://www.javascriptworkshop.com>
- Any questions?  
[frank@javascriptworkshop.com](mailto:frank@javascriptworkshop.com) - Frank Stepanski
- Recommended reading:  
[JavaScript: A Beginner's Guide, Second Edition](#)