# Where is JavaScript?

**Events** 

## Where is JavaScript?

JavaScript statements can be coded on a Web page using three different techniques

- Place JavaScript code as part of an EVENT attached to an HTML element (i.e. click)

```
<div onclick="alert('Hello World!');">
  Click Me!
</div>
```

#### Order matters

Where JavaScript is placed in an HTML document matters!

# **Events**

When things happen

### JavaScript and Events

#### • Events:

- actions taken by the Web page visitor
- a special type of method to which an element can respond
  - clicking (onclick)
  - placing the mouse on an element (onmouseover)
  - removing the mouse from an element (onmouseout)
  - loading the page (onload)
  - unloading the page (onunload)
  - clicking into a form element (onfocus)
  - leaving a form element (onblur)
  - many more (<a href="http://www.w3schools.com/jsref/dom\_obj\_event.asp">http://www.w3schools.com/jsref/dom\_obj\_event.asp</a>)

Remember: JavaScript is case sensitive

#### JavaScript and Events

- JavaScript can be configured to perform actions when events occur.
  - The event name is coded as an attribute of an HTML tag
  - The value of the event attribute contains the JavaScript code
- Example: Display an aler, box when the mouse is placed over a hyperlink.

<a href="index.html" onmouseover="alert('Click to go home')">Home</a>

#### JavaScript Popup Boxes

- JavaScript has three (3) kinds of popup boxes: alert, confirm, prompt
- An alert is used to give information. User must click "OK" to proceed.
- A confirm is used to verify something.
   User will have to click either "OK" or "Cancel" to proceed ("OK" returns true, "Cancel" returns false)
- A prompt is used to gather information from the user.
   User will have to click either "OK" or "Cancel" to proceed ("OK" returns the input value, "Cancel" returns null)

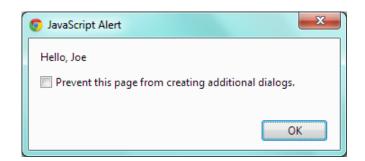
### alert()

#### alert("message");

```
Examples:
    alert("Hello, World");

var firstName;
firstName = prompt("Enter your First Name");
alert("Hello, " + firstName);
```





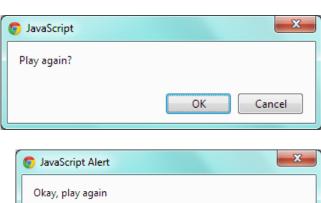
# confirm()

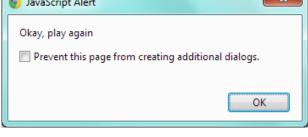
```
var = confirm("message");

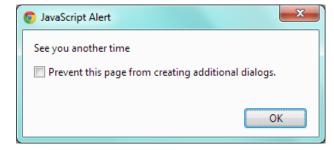
var again = confirm("Play again?");

while (again == true) {
   again = confirm("Okay, play again");
}
```

alert("See you another time");







## prompt()

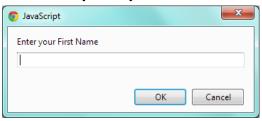
var = prompt("prompt message", "default value");

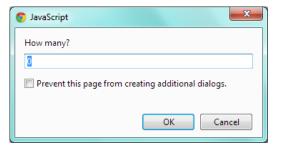
The value typed by the user is stored in the variable (var)

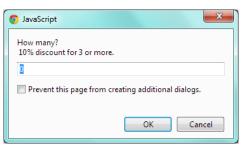
#### **Examples:**

var firstName = prompt("Enter your First Name");

var quantity = prompt("How many things do you want?", "0");







alert("Hello " + firstName + ".\nYou will get " + quantity + " things.")

Note: To display line breaks in a popup box, use **\n**