Announcements

- Project #2 has been posted
- Term Paper assignment will be posted soon

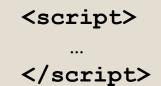
Where does JavaScript Code Go?

Ways to include JavaScript in your webpage:

1. As an attribute to a particular element:

Click this paragraph!

2. On its own:



3. In a separate file (ending with .js)
 <script src="myJavaScriptFile.js"></script></script></script></script></script>

Statements

- A Javascript program is a series of *statements*
- Statements are individual instructions
- Statements are executed one-by one from the top down

Punctuation, Etc.

We recommend:

- End each statement with a semi-colon

 JavaScript does not require it
- Use spacing (indenting, blank lines, etc.) to make code more readable
 - JavaScript ignores these extra spaces

Strings

A string is a sequence of characters (symbols)

Use quotes ("") or single quotes (''):

- "This is a string"
- 'This is a string'

Use + to <u>concatenate</u> (join) strings: — "This" + " is " + "a string"

Output

Simple Pop-Up Box:

alert("Put message here!");

Generate HTML content using Javascript: document.write("Hi!");

Example: Output.html Try this one in different browsers!

Adjusting Komodo Edit

- From the menu choose:
 Preferences, Syntax Checking...
- In the dropdown list called "languages", select Javascript
- In the box called JSHintOptions, enter the line: evil=true

Arithmetic Operators



All work as expected!

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Variables

- Memory location with a name.
- Used to store a value
- Values can be numbers, strings, or objects
- Always use "var" to create a *local* variable
- Use assigment operator (=) to assign a value to a variable.

```
var x;
x = 77;
var y = 22;
var z = 18.95;
var s = "Hello there.";
```

Example: VariablesOutput.html

Names of Variables

<u>Rules</u>

- May use letters, digits, underscore '_'
- First character may not be a digit
- Avoid "reserved" words: alert, var, innerHTML, many others

"Good Form" for Variables

Use "Camel Case":

- Lower-case letters
- First letter of subsequent words capitalized
- Examples of camel-case variable names:
 - temperature
 - userInput
 - numberOfPlayers
 - columnNumber

Names of Variables

Choose meaningful names:

Good names	Bad names
temperature	temp
shoeSize	sSize
row	r
maximumWidth maxWidth	max maxW

Input

Use *prompt* function for basic dialog box:

var name = prompt("What is your name?");

Result will always be a string.

Example: Input.html

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