**Lesson 8 - JavaScript: Objects and Scope**

**Lecture Notes**

**Activity**

* IIS
* Configure a new website
* Talk about app pools
* Get iis working with a sample website

**Lecture**

**Object Properties and Methods**

* Objects can have properties and methods
* Properties are things that describe and object
  + Name, hair color, number of fingers
* Methods are things that an object might do
  + Speak
  + Sneeze
  + Jump

var person = {

name: “brandon”,

speak: function(words){ console.log(words); }

}

console.log(person.name);

person.speak(“hello! What’s your name?”);

* You can access object properties using
  + person.name
    - This way is preferred!
  + person[“name”]
    - doing things this way, we might think it’s an array!

**JavaScript Scope**

* Once you’re inside of a function, you now have a new scope
* Variables in “local scope” are deleted once the block of code is finished executing
* Items that are not in some sort of local scope are in global scope!
* Variables should always be declared, otherwise they’re in global scope
* <http://www.w3schools.com/js/js_scope.asp>

**JavaScript Events**

* Onchange
  + Very useful for form controls
  + Detects when a user has clicked away from a form control
  + User types in some input into a field, and then clicks on the next one
  + Or clicks in some whitespace
* Onclick
  + Probably the most useful event ever!
  + Let’s you click on things
* Onmouseover
  + Nice for hover events,
  + Definitely should try to use css first
  + If css solution doesn’t work, then use javascript as a fallback.
* onmouseout
* Onkeydown
  + You can capture user input as people are typing!
  + Very useful for validation and searching
* Onload
  + Nice to wait for the page to be done loading

**JavaScript String Methods**

* Length
  + Pretty self-explanatory
* Indexof() and search()
  + Incredibly useful for searching for text in an element! (or elements)
  + Returns -1 if nothing was found
  + Very nice for filtering
* split(“,”)