Agenda

- Brief Javascript Introduction
- Course Requirements
- Brief HTML review
- On to JavaScript
- Assignment 1 - Due Next week
- Helpful Tools
- Questions/Comments

My Introduction

- Brad Rippe
- Email: brippe@fullcoll.edu (USE CIS 154 as the subject when emailing)
- Phone: 992-7516
- Work in Academic Computing Technologies on Campus
- Office is in T7B - office hours can be arranged during 9:30 - 5:00 pm M-F
- 9 week course (fast pace)
Introduction to the Course

- What the course about?
  - Creating dynamic web pages using Javascript.

- Static Web Pages
- Dynamic Web Pages
- Why?
- Prerequisites

Syllabus

- The course is based on 6 assignments, 5 quizzes, and a comprehensive final.

- Web projects can receive partial credit.

- There will be no makeup test given.

Syllabus (continued...)

Course Grading:
- 6 assignments – 50 pts each
  - 300 Total points from assignments
- 5 Quizzes - 10 pts each
  - 50 Total points from Quizzes
- Final Exam
  - 150 points
- Grand Total 500 pts

Grading Scale:
- 450 – 500 A
- 400 – 449 B
- 350 – 399 C
- 300 – 349 D
- Below 300 F
Dropping the course
- Students are responsible for dropping the course.

Wait Time for Late Instructor
- Due to unforeseen emergencies, the instructor does not arrive at the scheduled start time for class, students are to remain in class for 15 minutes (unless otherwise notified by the Division).

Academic Honesty
- (See college catalog)

Tentative Schedule
- 10/27
  - Reading: Tutorial 1 - Intro to Javascript
  - Lecture 1
  - Assignment 1 - Due 11/3
- 11/3
  - Reading: Tutorial 2 Variables, Functions, Objects, and Events
  - Lecture 2
  - Quiz 1
  - Assignment 2 - Due 11/10
- 11/10
  - Reading: Tutorial 3 - Data Types and Operations
  - Lecture 3
  - Quiz 2
  - Assignment 3 - Due 11/17
- 11/17
  - Reading: Tutorial 4 - Control Structures and Statements
  - Lecture 4
  - Quiz 3
  - Assignment 4 - Due 12/1 (continued on syllabus)

Textbook
- *JavaScript Second Edition*
- Course Technology Thomson Learning (Web Warrior Series) by Don Gosselin
Let's get on with it...

- HyperText Markup Language HTML
  - Tag based
  - Loosely structured
  - Presentation

- Javascript ??
  - Where?
  - How?
  - Why?

Simplest HTML Document

```html
<html>
  <!-- html comment doesn't appear in browser -->
  <head>
    <title>Simple HTML Doc</title>
  </head>
  <body>
    <p>Output for the browser<br>break the line.</p>
  </body>
</html>
```

Simplest HTML Document

```html
<!-- all html documents start with a beginning html tag
</html> -- all html documents end with a ending html tag
<head></head> -- all html documents should have head tags with meta data such as title, author, etc...
<body></body> -- all html documents must have body tags. THIS IS WHAT IS DISPLAYED IN THE BROWSER.
The body can contain any number of html tags that describe how the contents of the file will appear to the client.
<p><br><span></span><div></div><font> etc...
More HTML
- HTML is not case-sensitive
- HTML is not strict
- HTML is text and can be edited in NotePad or WordPad.
- HTML is used for static content

JavaScript
- Similar to other programming languages by its syntax.
- Not as full featured as C, C++, or Java
- Client side interpretation from the browser
- Originally called LiveScript
- Standardized by ECMA (European Computer Manufacturers Association)
- Current version 1.5 - Introduction of Exceptions
- Javascript can be written with the same editor you use for writing HTML files.

Where do I fit in??
```
<html>
<head><title>Javascript</title>
<script language=""javascript1.5"">  
<!-- Html Comment
  // Javascript comment
  alert('Hi Javascript Class');
  // -->
</script>
</head>
<body></body>
</html>
```
Where do I fit in?

- Javascript is usually located at the top of the HTML file in the head tags. Although, it can be found anywhere as long as the code is between script tags:

```
<script language="Javascript1.5"> 
  alert('some text'); 
</script>
```

External Javascript files

- .js files
- Organization
- Easy to include in multiple files
- Easy to include across sites

```
<head>
  <script language="Javascript1.5" src="example2.js">
  </script>
  <!-- NO CODE IN THE HTML FILE -->
</head>...
```

Javascript Basics

- loosely typed
  ```javascript
  var hellowString = "Hello String";
  ```
- Flexible
  ```javascript
  var hellowstring = 'Hello String'
  ```
- predefined features
  ```javascript
  alert();
  ```
- User defined functions
  ```javascript
  // later - remember Javascript comments
  ```
**Javascript Execution**

```javascript
<script language="javascript1.5"> 
  document.writeln("Hello Javascript");
  document.writeln("I'm here to say hello");
  document.writeln("I'm the last line written");
</script>

=document is an object given to us by Javascript.
Note: document and Document are NOT the same.

writeln is a function or method given to us by Javascript.
```

**Javascript - Statement**

- Statements - the basic building block of a program. A single instruction to the interpreter (javascript engine).
- document.writeln("Statement 1");
- alert("Hi");

**Javascript Syntax**

- Similar to C/C++, and Java
- Although not necessary, in this class we will end each statement with a ";
- Open brackets will be placed on the same line as the structure that declares them.
- Any statements inside { } will be indented 4 spaces or 1 tab.
- Comment any code if you need further explanation
Javascript Poor Format

```javascript
<script language="javascript1.5">
function someFunction(a) {// This is just sample code
if(a) {document.write("In if");
}
} // end someFunction</script>
```

Revised Format

```javascript
<script language="javascript1.5">
function someFunction(a) {
// This is just sample code
if(a) {
document.write("In if");
}
} // end someFunction
</script>
```

Why format your code?

- Easier to read
- Easier to maintain
- Easier to for others to read
- Easier to determine if an errors have been made syntactically
No Script Tag

- Html supports a `<noscript>` tag.

```html
<script language="javascript1.5">
    // some code here
</script>
<noscript>
    Your browser does not support javascript. Please update your browser to a newer version.
</noscript>
```

Assignment 1

- Activate your lab account
- Be sure you can log into a lab computer.
- Make sure you can upload files

Assignments - Requirements

- ALL ASSIGNMENT MUST HAVE THE FOLLOWING INFORMATION IN AN HTML OR JAVASCRIPT COMMENT
  - Name:
  - Student ID:
  - Assignment Name: Assignment 1, etc.
  - Course Name: CIS 154
  - URL: (i.e. http://staffwww.fullcoll.edu/brippe/cis154/assignment1.htm)

- ALL HTML FILES AND JAVASCRIPT .js files, MUST BE ACCESSIBLE FROM THE WEB, i.e., uploaded to your web space to receive credit.
Assignment 1

- Create an html file with the appropriate javascript code to:
  - display the string "My First Javascript" in an alert dialog box.
  - display the string "Javascript is cool!"
- This will be one htm file.
- Print out the code and turn it in next class session.
- Don’t forget to upload your files to your web space. YOU WILL NOT RECEIVE CREDIT IF THE FILE IS NOT ON THE WEB.

Next Week

- Read Tutorial 1
- Turn in a hard copy of your assignment 1
- Upload your assignment into your web space
- Quiz 1
- Lecture 2 - Variables, functions, and events

Helpful Resources

- Mozilla Web Browser - http://texturizer.net/firefox/
- Javascript Kit - http://www.javascriptkit.com/