

## 6 — Lab 6: JavaScript

### 6.1 Introduction

In this lab you will explore JavaScript. JavaScript is the scripting language that glues your webpage together to make it modern, dynamic and interactive.

It is important that you prepare yourself for the work that will come next week when you begin exploring CSS and JavaScript libraries. This lab will help you prepare. If you don't finish all the reading in class, that is fine, but please consider finishing the tutorials outside of class. You are encouraged to play with the live examples provided on the w3schools website, and try out ideas that interest you on your website.

#### 6.1.1 Basic JavaScript

You should already be familiar with Java. It is not much of a stretch to quickly learn JavaScript if you already know Java. Using the w3schools JavaScript tutorials, familiarize yourself with JavaScript at <http://www.w3schools.com/js/default.asp>. If you have never used JavaScript before, you should at least browse through all of the JS Basic tutorials.

#### 6.1.2 Advanced JavaScript

Even if you are already familiar with JavaScript, make sure you should at least familiarize yourself with the concepts covered in the JS Advanced tutorial thread at [http://www.w3schools.com/js/js\\_objects.asp](http://www.w3schools.com/js/js_objects.asp).

#### 6.1.3 JavaScript and the Dom

The Document Object Model (DOM) is the convention which JavaScript uses to interact with content and appearance of your webpage. Understanding the DOM is crucial to understanding how to work with CSS and JavaScript frameworks such as Bootstrap. Follow both the JS HTML DOM tutorial ([http://www.w3schools.com/js/js\\_htmldom.asp](http://www.w3schools.com/js/js_htmldom.asp)), and the JS Browser Tutorial ([http://www.w3schools.com/js/js\\_window.asp](http://www.w3schools.com/js/js_window.asp)).

### 6.2 Classwork

Add a button to your home page that changes the background color of your nav bar each time the button is pressed. Look at these examples for suggestions:

- [http://www.w3schools.com/jsref/tryit.asp?filename=tryjsref\\_onclick](http://www.w3schools.com/jsref/tryit.asp?filename=tryjsref_onclick)
- [http://www.w3schools.com/js/tryit.asp?filename=tryjs\\_change\\_style](http://www.w3schools.com/js/tryit.asp?filename=tryjs_change_style)
- [http://www.w3schools.com/jsref/prop\\_style\\_backgroundcolor.asp](http://www.w3schools.com/jsref/prop_style_backgroundcolor.asp)

### 6.3 References

Various JavaScript references from w3schools:

- <http://www.w3schools.com/js/default.asp>
- [http://www.w3schools.com/js/js\\_objects.asp](http://www.w3schools.com/js/js_objects.asp)
- [http://www.w3schools.com/js/js\\_htmldom.asp](http://www.w3schools.com/js/js_htmldom.asp)
- [http://www.w3schools.com/js/js\\_window.asp](http://www.w3schools.com/js/js_window.asp)
- [http://www.w3schools.com/jsref/tryit.asp?filename=tryjsref\\_onclick](http://www.w3schools.com/jsref/tryit.asp?filename=tryjsref_onclick)
- [http://www.w3schools.com/js/tryit.asp?filename=tryjs\\_change\\_style](http://www.w3schools.com/js/tryit.asp?filename=tryjs_change_style)
- [http://www.w3schools.com/jsref/prop\\_style\\_backgroundcolor.asp](http://www.w3schools.com/jsref/prop_style_backgroundcolor.asp)