

55244-A: JavaScript for Developers

1. Basic Scripting

- a. JavaScript Basics
- b. JavaScript or ECMAScript?
- c. Which Version of JavaScript am I Using?
- d. Shims, Shivs, and Polyfills
- e. Writing and Testing JavaScript
- f. Editors and the F12 Tools
- g. Key Parts of a Script

Lab:

- Exercise 1 - Experimenting with the F12 Developer Tools
- Exercise 2 - Update the time on the page by using JavaScript
- Exercise 3 - Add JavaScript to respond to an event

2. The Document Object Model

- a. The DOM
- b. Accessing Objects from the DOM
- c. Responding to Events
- d. Adding Elements to the DOM

Lab

- Add an Animation to the Home Page.
- Move the JavaScript to a File
- Add JavaScript to Supply Mouse Over Tips to the Menu Tabs

3. Introduction to JQuery

- a. jQuery
- b. Downloading the jQuery Library
- c. jQuery Versions
- d. Linking to the Library
- e. Selecting Elements using jQuery
- f. Working with the Data Returned by jQuery
- g. Setting CSS Properties

- h. Running a Function Against the jQuery Return Set

Lab:

- Add the jQuery Library to the Project
- Create New Elements using jQuery

4. Ajax and Web Services

- a. Web Services
- b. HTTP Verbs
- c. Data Formats - XML and JSON
- d. Ajax
- e. RESTful Web Services
- f. OData
- g. OData Queries
- h. OData Updates

Lab:

- Exploring a REST Web Service
- Load Data from a Web Service

5. Diving in Deeper

- a. Is JavaScript Compiled?
- b. Data Types and Objects
- c. Extending Data Types
- d. Variables, Scopes and Hoisting
- e. Functions
- f. The “this” Keyword
- g. Errors
- h. Recursion