

Advanced JavaScript Course Summary

Description

The Advanced JavaScript training course is designed to enhance your JavaScript coding skills with the latest techniques.

The Advanced JavaScript course uses hands-on, real world exercises to help you incorporate better development techniques into their workflow. Following a brief overview of JavaScript basics, the course explores ECMA objects, web storage, and design patterns. The course then transitions into discussing frameworks and APIs as tools for improving development cycles.

For a more intensive study of JavaScript, we recommend you take the JavaScript Boot Camp.

Objectives

At the end of this course, students will be able to:

- ECMA Objects
- Web Storage
- Design Patterns
- JavaScript APIs
- Frameworks
- Testing

Topics

- JavaScript Review
- ECMA Objects
- Web Storage
- Design Patterns
- JavaScript APIs
- JavaScript Framework Overview
- Testing

Audience

This course is designed for web developers and designers who have experience with JavaScript.

Prerequisites

There are no prerequisites for this course.

Duration

Three days

Advanced JavaScript Course Outline

- I. JavaScript Review**
 - A. Review of Core Concepts
 - B. Manipulating the DOM
 - C. Creating Interactivity
- II. ECMA Objects**
 - A. What is ECMAScript?
 - B. Function Arguments
 - C. Call and Apply
 - D. Window Object
 - E. Closures
 - F. Array Methods
 - G. Binding Functions to Objects
 - H. Object.Create
 - I. Descriptors
- III. Web Storage**
 - A. Web Storage vs. Cookies
 - B. Implementing Storage
 - C. Saving, Reading, Clearing Storage
- IV. Design Patterns**
 - A. What are design patterns?
 - B. Common JS Design Patterns
 - C. Currying
- V. JavaScript APIs**
 - A. Canvas
 - B. File API
 - C. Geolocation
 - D. Web Workers
 - E. Web Sockets
 - F. Server Sent Events
 - C. Testing Frameworks: QUnit, Jasmine
- VI. JavaScript Framework Overview**
 - A. History of JS Frameworks
 - B. jQuery
 - C. Backbone / Ember / Angular
- VII. Testing**
 - A. Test Driven Development
 - B. Debugging