

jQuery Fundamentals Training (3 Days)

Class Overview

jQuery is fast becoming a must-have skill for front-end developers. The purpose of this jQuery training course is to provide an overview of the jQuery JavaScript library. When you're done with this jQuery training course, you will be able to complete basic tasks using jQuery, and you will have a solid basis from which to continue your learning.

Class Goals

- Review JavaScript basics.
- Get started with jQuery.
- Learn to work with the jQuery Core.
- Learn to handle events with jQuery.
- Learn to create cool effects with jQuery.
- Learn to build Ajax applications with jQuery.
- Learn to write and use jQuery plugins.
- Learn to write high-performing jQuery applications.
- Learn to organize your jQuery code.

Class Outline

jQuery Intro

How jQuery Works

JavaScript Basics

Syntax Basics
Reserved Words
Basic Operators
Operations on Numbers and Strings
Logical Operators
Comparison Operators
Conditional Code
Conditional Variable Assignment with the
Ternary Operator
Switch Statements
Loops
Arrays

Objects

Functions

Testing Type

Scope

jQuery Basic Concepts

Basic Flow of a jQuery Application
Using `$(document).ready()`
Selecting Elements
Operating on Selections
Working with Selections
CSS, Styling, and Dimensions
Traversal Methods
Manipulating the DOM

jQuery Core

- \$ vs jQuery
- \$ vs \$()
- Closures
- Utility Methods

Events and Event Handlers

- Connecting Events to Elements
- Inside the Event Handling Function
- Triggering Event Handlers
- Increasing Performance with Event Delegation
- Event Helpers

Effects

- Built-in Effects
- Limitations on Effects
- Queuing of Effects with Other Operations
- Callbacks - Doing Something When an Effect is Done
- Custom Effects with \$fnanimate
- Managing Effects
- jQueryfxoff

Ajax

- Key Concepts
- jQuery's Ajax-Related Methods
- Ajax and Forms
- Working with JSONP
- Ajax Events

Plugins

- How to Create a Basic Plugin
- Finding and Evaluating Plugins

Best Practices

- JavaScript Best Practices
- jQuery Best Practices
- Code Organization
- Don't Treat jQuery as a Black Box

Custom Events

- About Custom Events
- In Summary

jQuery Mobile jQuery UI

- jQuery UI
- jQuery Mobile