Course duration

- 2 days

Course Benefits

- A little history.
- jQuery in the 2020s.
- Our project.
- Your first jQuery code.
- The document is ready.
- Selectors.
- Caching jQuery Objects.
- Utility Functions.
- Adding elements.
- Removing elements.
- Replacing elements.
- CSS
- Listening for events.
- Responding to events.
- Triggering events.
- on(), off(), and trigger()
- Event delegation.
- Display effects.
- Fading effects.
- Sliding effects.
- Animating.
- Ajax and JSON Basics.
- The Problems and Solutions with Ajax.
- Getting data with Ajax.
- Sending data with Ajax.
- Why convert from jQuery to JavaScript?
- Practice, practice, practice!

Course Outline

1. Getting Started with jQuery
    1. Why jQuery in the 2020s?
    2. Our Approach
    3. Exercise: Getting Bootstrap
    4. Exercise: Reviewing the Vanilla JavaScript Code
    5. Exercise: Getting Started with jQuery

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2. The jQuery Function and Selectors
    1. The Document is Ready
    2. Exercise: Waiting for the Load Event
    3. jQuery Selectors
    4. Converting HTML Elements to jQuery Elements
    5. Filtering
    6. Tree Traversal
    7. Caching jQuery Objects
    8. Exercise: Playing with Selectors
    9. Chaining
    10. Utility Functions
3. jQuery Manipulation
    1. Getter and Setter Methods
    2. Exercise: Getter and Setter Methods Practice
    3. Setting and Adding Content
    4. Exercise: Setting and Adding Content
    5. Copying and Removing Content
    6. Exercise: Copying and Removing Content: Practice
    7. event.target
    8. Properties vs. Attributes
    9. Shopping List Application
    10. Exercise: Logging
    11. Exercise: Adding EventListeners
    12. Exercise: Adding Items to the List
    13. Exercise: Dynamically Adding Remove Buttons to the List Items
    14. Exercise: Removing List Items
    15. Exercise: Preventing Duplicates and Zero-length Product Names
4. jQuery Forms and Events
    1. Listening for Events
    2. Triggering Events
    3. Delegating Events
    4. Exercise: Event Delegation
5. jQuery Effects
    1. Display Effects
    2. Fading Effects
    3. Exercise: Waiting for Fading to Finish
    4. Sliding Effects
    5. Other Animations
6. Ajax and jQuery
    1. Ajax
    2. Using Ajax
    3. Exercise: Form Validation with Ajax
7. Converting from jQuery to JavaScript
    1. Why Convert jQuery to JavaScript?
    2. Exercise: Getting Ready
    3. Exercise: Converting the Common Functions
    4. Exercise: Converting the Config View Functions

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5. Exercise: Convert the Game View Functions

Class Materials

Each student will receive a comprehensive set of materials, including course notes and all the class examples.

Class Prerequisites

Experience in the following *is required* for this jQuery class:

- HTML
- JavaScript

Experience in the following *would be useful* for this jQuery class:

- CSS

Prerequisite Courses

Courses that can help you meet these prerequisites:

- Introduction to HTML Training
- Introduction to JavaScript Training
- Introduction to CSS Training

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