JavaScript & jQuery

Make your webpages more interesting and interactive with JavaScript & jQuery. Learn how to hide and show elements, add slideshows, validate forms, and much more. Once you know how to use jQuery & plugins, a whole world of cool things becomes available!

Group classes in NYC and onsite training is available for this course. For more information, email hello@nobledesktop.com or visit nobledesktop.com/classes/javascript-jquery

Course Outline

Section 1

Fundamentals of JavaScript Code
- JavaScript methods (such as alerts)
- Variables
- The importance of quotes
- Numbers vs. strings
- Concatenation

Reusing Code with Functions
- Defining functions
- Calling functions
- Defining parameters & passing arguments

Simple Accordion with JavaScript
- Targeting elements by ID
- Hiding & showing elements with JavaScript

If Statements: Clearing Form Fields
- Testing code in the JavaScript Console
- Getting & setting properties
- Using if statements
- Reshowing text hints in empty form fields

Section 2

Introduction to JavaScript Objects & the DOM
- Intro to objects
• The global object
• Breaking open & manipulating objects

Dynamically Changing Content with Custom Objects
• Checking the functionality of the select menu
• Getting the chosen value
• Dynamically changing the state name value
• Dynamically changing the rest of the values

Introduction to Arrays & the Math Object
• Creating an array
• Editing an array
• Creating an array of welcome headings
• The Math object
• Using the Math object to pick random headlines

Introduction to For Loops
• Creating a for loop
• Using the for loop to set dropdown menus
• Clearing the To menu
• Optional bonus: refining the menu selection experience

Section 3

Exploring JavaScript Selectors
• Intro to JavaScript selectors
• Selecting multiple elements & elements without IDs
• Getting a specific list item
• Getting elements by class name
• Getting multiple items using querySelectorAll()
• Getting a single item using querySelector()
• Chaining selectors together
• Targeting elements by data attribute

Photo Filter Website: User Friendly Navigation
• Setting up the selectors with data attributes
• Getting the selectors on load
• Toggling the filter buttons
• Refining the filter buttons

Photo Filter Website: Getting the Photos to Filter
• Creating an array to store the selectors
• Getting the All button to select all filters
• Getting the rest of the buttons to select the other filters
• Initially hiding the photos
• Getting the photos to filter

Photo Filter Website: Creating an Exclusive Filter
- Adding a checkbox to toggle exclusive filtering on/off
- Separating the inclusive & exclusive filters
- Writing a conditional to select the appropriate filter
- Programming the exclusive filter
- Rerunning the filter when the checkbox is toggled
- Improving the user experience

**Section 4**

**Showing/Hiding Content with jQuery Animation**
- Getting started with jQuery
- Running code when the document is ready
- Click events
- Using jQuery’s `slideToggle()` method
- Supporting JavaScript disabled users

**Sharing JavaScript Across Pages**
- Externalizing JavaScript
- Linking to the JavaScript file

**jQuery Hover Animation**
- Adding an outline with CSS
- Using jQuery’s `hover()` method
- Using jQuery’s `animate()` method

**More Advanced jQuery Showing/Hiding**
- Adding an animation to reveal hidden content
- Targeting the proper div: traversing the document
- Swapping the button image with jQuery

**Section 5**

**jQuery Lightbox: A Pop-up Image Viewer**
- Linking to the plugin files
- Initializing the pop-up
- Grouping the photos into a gallery
- Adding captions
- Removing the counter
- Customizing the appearance

**jQuery Cycle: A Simple Slideshow**
- Initial setup
- Defining what content gets cycled
- Adding more cycles & exploring options
- Reversing the animation

**jQuery Cycle: Adding Slideshow Controls**
- Preventing a possible “flash of unstyled content”
Enabling the slideshow
Adding & customizing the controls

Section 6

jQuery Cycle: Adding a Pause Button
- Adding a pause/play button
- Styling the pause/play button
- Checking to see if the cycle is paused
- Making the pause/play button work

jQuery Form Validation
- Initializing the plugin & setting options
- Customizing the error messages
- Changing the location of the error messages
- Styling the error messages

jQuery Image Carousel
- Linking to the plugin files
- Creating the carousel
- Styling the carousel
- An easy way to add prev & next buttons
- Adding custom prev & next buttons
- Setting how many items are shown