

Introduction to JavaScript

GoSkills online course syllabus

Skill level

Beginner

Lessons

40

Accredited by

CPD

Pre-requisites

No prior experience needed

Video duration

2h 41m

Estimated study time

4h 43m

Instructor

John Elder

Course Introduction

1

Setting Up a Development Environment

Set up the tools you need to use JavaScript.

2

Where to Use JavaScript

Where does JavaScript go? Putting JavaScript tags in the HTML head, vs body, vs external files.

3

Syntax

What does JavaScript code look like?

4

Output

Learn several ways to output data to the screen with JavaScript.

Basic JavaScript

5

Statements and Comments

Understanding the instructions that are executed by the web browser, and learning how to comment code.

6

Variables

How to store data in variables in JavaScript.

7

Assignment Operators

How to assign values to a variable, and do basic math assignment.

- 8 Arithmetic Operators**
How to add, subtract, multiply, and divide with JavaScript. We'll also look at the modulus, incrementing and decrementing.
- 9 Comparison and Logic Operators**
How to compare two or more variables and test with logic (and, or, not).
- 10 Strings, Numbers, and Boolean Data Types**
Understanding the difference between strings and numbers; and understanding Boolean data types.
- 11 Arrays**
What are arrays, and how does JavaScript use them?

Intermediate JavaScript

- 12 Objects**
What are objects, and how does JavaScript use them?
- 13 Functions**
Implementing and invoking blocks of code with functions.
- 14 If and If/Else and If/Else If Statements**
Understanding conditional statements using If, If Else, and If Else If statements.
- 15 Switch**
Understanding conditional statements using switch.
- 16 For Loops**
Looping through things using For loops.
- 17 While Loops**
Looping through things using While loops.
- 18 Intro to JSON**
Introduction to JSON and why it is important.

Using JavaScript For The Web

19 **A Short HTML/CSS Primer**
JavaScript works with HTML and CSS, let's do a quick refresher video on HTML and CSS.

20 **Intro to the HTML DOM**
What is the DOM and why is it important?

21 **DOM Methods and Properties**
What are the actions you can perform on HTML elements and what properties can you get and set?

22 **Dom Document Objects**
Finding, changing, adding, and deleting elements.

23 **Finding Dom Elements**
Finding elements by ID, by tag name, by class name, by CSS selectors, and by collections.

24 **Changing HTML Output, Content, and Attributes**
How to change HTML output, content, and attributes with JavaScript.

25 **Changing CSS**
How to change your CSS with JavaScript.

26 **Understanding Events**
What is an event, and what can you do with it?

27 **Event Listeners**
What are event listeners, and how to listen for event handlers.

28 **Navigating DOM Nodes**
What is a DOM node and how do you navigate them.

29 **Creating New Nodes**
Adding new nodes on the fly with JavaScript.

30 **The Node List**
How to retrieve an array-like collection of nodes.

31 **Form Validating**
How to validate an HTML fill-out form with JavaScript.

32 **Introduction to jQuery**
What is jQuery, and why is it important?

AJAX

33 **What Is AJAX**
What is AJAX and what is it used for?

34 **AJAX Requests - GET or POST?**
What's the difference between GET and POST and when should you use them?

35 **AJAX Response**
How to handle an AJAX response.

Building a Math Flashcard App

36 **Putting It All Together - What We'll Build**
Introduction to building a simple math flashcard app with JavaScript and Ajax.

37 **Create the Fill-Out Form**
Let's create a fill-out form to enter our answers.

38 **Checking for Numbers**
Let's make sure the user entered a number!

39 **Output the Result**
How to output the answers to the screen.

40 **Finishing Up**
Create pages for Subtraction, Multiplication, and Division and finish the app.