



learn
enough

JAVASCRIPT

TO BE DANGEROUS



MICHAEL HARTL

Praise for Learn Enough Tutorials

“I have nothing but fantastic things to say about @LearnEnough courses. I am just about finished with the #javascript course. I must say, the videos are mandatory because @mhartl will play the novice and share in the joy of having something you wrote actually work!”

—Claudia Vizona

“I must say, this Learn Enough series is a masterpiece of education. Thank you for this incredible work!”

—Michael King

“I want to thank you for the amazing job you have done with the tutorials. They are likely the best tutorials I have ever read.”

—Pedro Iatzky

Learn Enough JavaScript to Be Dangerous: Write Programs, Publish Packages, and Develop Interactive Websites with JavaScript

Table of Contents

Cover

Half Title

Title Page

Copyright Page

Contents

Preface

About the Author

Chapter 1 Hello, World!

1.1 Introduction to JavaScript

1.2 JS in a Web Browser

1.2.1 Deployment

1.2.2 Exercise

1.3 JS in a REPL

1.3.1 Browser Console

1.3.2 Node Prompt

1.3.3 Exercise

1.4 JS in a File

1.4.1 Exercise

1.5 JS in a Shell Script



Table of Contents

1.5.1 Exercise

Chapter 2 Strings

2.1 String Basics

2.1.1 Exercise

2.2 Concatenation and Interpolation

2.2.1 The Backtick Syntax

2.2.2 Exercises

2.3 Printing

2.3.1 Exercise

2.4 Properties, Booleans, and Control Flow

2.4.1 Combining and Inverting Booleans

2.4.2 Bang Bang

2.4.3 Exercises

2.5 Methods

2.5.1 Exercises

2.6 String Iteration

2.6.1 Exercises

Chapter 3 Arrays

3.1 Splitting

3.1.1 Exercises

3.2 Array Access

3.2.1 Exercises

3.3 Array Slicing

3.3.1 Exercises

3.4 More Array Methods

3.4.1 Sorting and Reversing

3.4.2 Pushing and Popping

3.4.3 Undoing a Split

Table of Contents

3.4.4 Exercises

3.5 Array Iteration

3.5.1 Exercises

Chapter 4 Other Native Objects

4.1 Math and Number

4.1.1 More Advanced Operations

4.1.2 Math to String

4.1.3 Exercises

4.2 Dates

4.2.1 Exercises

4.3 Regular Expressions

4.3.1 Regex Methods

4.3.2 String Methods

4.3.3 Exercises

4.4 Plain Objects

4.4.1 Exercise

4.5 Application: Unique Words

4.5.1 Map

4.5.2 Exercises

Chapter 5 Functions

5.1 Function Definitions

5.1.1 Sorting Numerical Arrays

5.1.2 Fat Arrow

5.1.3 Exercise

5.2 Functions in a File

5.2.1 Exercises

5.3 Method Chaining

5.3.1 Caveat Emoji

Table of Contents

5.3.2 Exercises

5.4 Iteration for Each

5.4.1 Exercises

Chapter 6 Functional Programming

6.1 Map

6.1.1 Exercise

6.2 Filter

6.2.1 Exercise

6.3 Reduce

6.3.1 Reduce, Example 1

6.3.2 Reduce, Example 2

6.3.3 Functional Programming and TDD

6.3.4 Exercises

Chapter 7 Objects and Prototypes

7.1 Defining Objects

7.1.1 Exercise

7.2 Prototypes

7.2.1 Exercise

7.3 Modifying Native Objects

7.3.1 Exercises

Chapter 8 Testing and Test-Driven Development

8.1 Testing Setup

8.1.1 Exercise

8.2 Initial Test Coverage

8.2.1 Pending Tests

8.2.2 Exercises

8.3 Red

8.3.1 Exercises

Table of Contents

8.4 Green

8.4.1 Exercise

8.5 Refactor

8.5.1 Publishing the NPM Module

8.5.2 Exercises

Chapter 9 Events and DOM Manipulation

9.1 A Working Palindrome Page

9.1.1 Exercise

9.2 Event Listeners

9.2.1 Exercise

9.3 Dynamic HTML

9.3.1 Exercise

9.4 Form Handling

9.4.1 Exercises

Chapter 10 Shell Scripts with Node.js

10.1 Reading from Files

10.1.1 Exercise

10.2 Reading from URLs

10.2.1 Exercise

10.3 DOM Manipulation at the Command Line

10.3.1 Exercises

Chapter 11 Full Sample App: Image Gallery

11.1 Prepping the Gallery

11.1.1 Prepping the JavaScript

11.1.2 Exercise

11.2 Changing the Gallery Image

11.2.1 Exercises

11.3 Setting an Image as Current

Table of Contents

11.3.1 Exercise

11.4 Changing the Image Info

11.4.1 Deploying

11.4.2 Exercise

11.5 Conclusion

11.5.1 Learning More JavaScript

11.5.2 Learning a New Language

Index