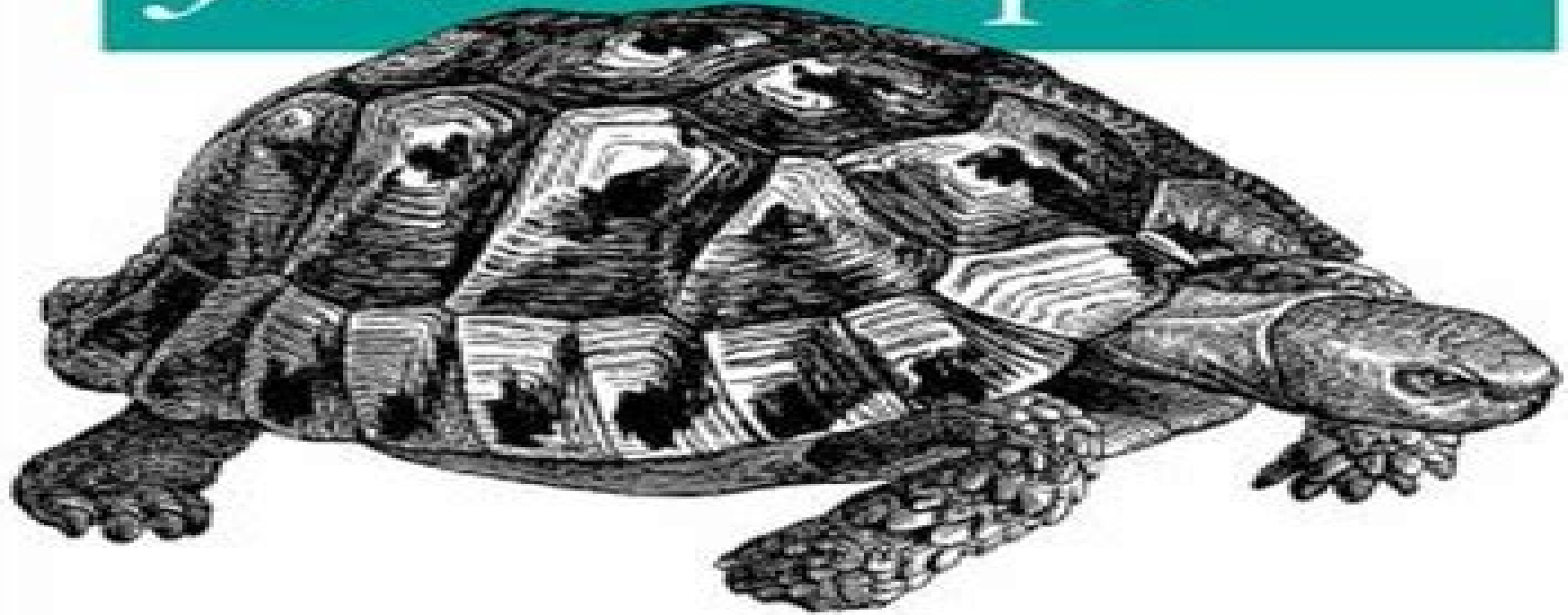


Writing Readable Code

Maintainable JavaScript



O'REILLY*

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modules and classes About the Reader Written for web developers comfortable with standard JavaScript 5 features and coding style About the Author J D Isaacks is a seasoned developer a JavaScript instructor and an open source maintainer Table of Contents Lesson 1 ECMAScript specification and the proposal process Lesson 2 Transpiling with Babel Lesson 3 Bundling modules with Browserify UNIT 1 VARIABLES AND STRINGS Lesson 4 Declaring variables with let Lesson 5 Declaring constants with const Lesson 6 New string methods Lesson 7 Template literals Lesson 8 Capstone Building a domain specific language UNIT 2 OBJECTS AND ARRAYS Lesson 9 New array methods Lesson 10 Object assign Lesson 11 Destructuring Lesson 12 New object literal syntax Lesson 13 Symbol a new primitive Lesson 14 Capstone Simulating a lock and key UNIT 3 FUNCTIONS Lesson 15 Default parameters and rest Lesson 16 Destructuring parameters Lesson 17 Arrow functions Lesson 18 Generator functions Lesson 19 Capstone The prisoner s dilemma UNIT 4 MODULES Lesson 20 Creating modules Lesson 21 Using modules Lesson 22 Capstone Hangman game UNIT 5 ITERABLES Lesson 23 Iterables Lesson 24 Sets Lesson 25 Maps Lesson 26 Capstone Blackjack UNIT 6 CLASSES Lesson 27 Classes Lesson 28 Extending classes Lesson 29 Capstone Comets UNIT 7 WORKING ASYNCHRONOUSLY Lesson 30 Promises Lesson 31 Advanced promises Lesson 32 Async functions Lesson 33 Observables Lesson 34 Capstone Canvas image gallery Appendix Exercise answers [The JavaScript Workshop](#) Joseph Labrecque, Jahred Love, Daniel Rosenbaum, Nick Turner, Gaurav Mehla, Alonzo L. Hosford, Florian Sloot, Philip Kirkbride, 2019-11-29 Get to grips with the fundamentals of JavaScript and learn to build the programming skills that will kickstart your career as a software developer Key Features Learn the basics of JavaScript programming to create dynamic web pages Explore the fundamentals of back end development using Node js Tackle challenging development problems and apply solutions to real world situations Book Description If you re looking for a programming language to develop flexible and efficient apps JavaScript is a great choice However while offering real benefits the complexity of the entire JavaScript ecosystem can be overwhelming This Workshop is a smarter way to learn JavaScript It is specifically designed to cut through the noise and help build your JavaScript skills from scratch while sparking your interest with engaging activities and clear explanations Starting with explanations of JavaScript s fundamental programming concepts this book will introduce the key tools libraries and frameworks that programmers use in everyday development You will then move on and see how to handle data control the flow of information in an application and create custom events You ll explore the differences between client side and server side JavaScript and expand your knowledge further by studying the different JavaScript development paradigms including object oriented and functional programming By the end of this JavaScript book you ll have the confidence and skills to tackle real world JavaScript development problems that reflect the emerging requirements of the modern web What you will learn Write clean maintainable and eloquent JavaScript code Build websites using plain JS and various frameworks and libraries Simplify your workflow with package managers such as Gulp and Grunt Use Node js to build server side JavaScript applications Improve the functionality of your applications with browser

APIs Implement asynchronous programming to build apps that can multitask Who this book is for The JavaScript Workshop is the ideal guide to JavaScript for beginners It is designed for anyone who wants to get started learning JavaScript Whether you re an aspiring web developer or are just curious about learning how to code with a versatile programming language this book will help you get up and running Previous development experience is not required but basic prior knowledge of HTML and CSS will help you get the most from this book [Professional JavaScript for Web Developers](#) Nicholas C.

Zakas,2011-12-20 This book provides a developer level introduction along with more advanced and useful features of JavaScript Coverage includes JavaScript use with HTML to create dynamic webpages language concepts including syntax and flow control statements variable handling given their loosely typed nature built in reference types such as object and array object oriented programming powerful aspects of function expressions Browser Object Model allowing interaction with the browser itself detecting the client and its capabilities Document Object Model DOM objects available in DOM Level 1 how DOM Levels 2 and 3 augmented the DOM events legacy support and how the DOM redefined how events should work enhancing form interactions and working around browser limitations using the canvas tag to create on the fly graphics JavaScript API changes in HTML5 how browsers handle JavaScript errors and error handling features of JavaScript used to read and manipulate XML data the JSON data format as an alternative to XML Ajax techniques including the use of XMLHttpRequest object and CORS complex patterns including function currying partial function application and dynamic functions offline detection and storing data on the client machine techniques for JavaScript in an enterprise environment for better maintainability This book is aimed at three groups of readers Experienced object oriented programming developers looking to learn JavaScript as it relates to traditional OO languages such as Java and C Web application developers attempting to enhance site usability novice JavaScript developers Nicholas C Zakas worked with the Web for over a decade He has worked on corporate intranet applications used by some of the largest companies in the world and large scale consumer websites such as MyYahoo and the Yahoo homepage He regularly gives talks at companies and conferences regarding front end best practices and new technology [JavaScript Design Patterns in Action](#) Laurence Oliver

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you will learn to identify places where a pattern would improve code readability and maintainability *Clean Code in JavaScript* James Padolsey, 2020-01-17 Get the most out of JavaScript for building web applications through a series of patterns techniques and case studies for clean coding Key Features Write maintainable JS code using internal abstraction well written tests and well documented code Understand the agents of clean coding like SOLID principles OOP and functional programming Explore solutions to tackle common JavaScript challenges in building UIs managing APIs and writing states Book Description Building robust apps starts with creating clean code In this book you ll explore techniques for doing this by learning everything from the basics of JavaScript through to the practices of clean code You ll write functional intuitive and maintainable code while also understanding how your code affects the end user and the wider community The book starts with popular clean coding principles such as SOLID and the Law of Demeter LoD along with highlighting the enemies of writing clean code such as cargo culting and over management You ll then delve into JavaScript understanding the more complex aspects of the language Next you ll create meaningful abstractions using design patterns such as the Class Pattern and the Revealing Module Pattern You ll explore real world challenges such as DOM reconciliation state management dependency management and security both within browser and server environments Later you ll cover tooling and testing methodologies and the importance of documenting code Finally the book will focus on advocacy and good communication for improving code cleanliness within teams or workplaces along with covering a case study for clean coding By the end of this book you ll be well versed with JavaScript and have learned how to create clean abstractions test them and communicate about them via documentation What you will learn Understand the true purpose of code and the problems it solves for your end users and colleagues Discover the tenets and enemies of clean code considering the effects of cultural and syntactic conventions Use modern JavaScript syntax and design patterns to craft intuitive abstractions Maintain code quality within your team via wise adoption of tooling and advocating best practices Learn the modern ecosystem of JavaScript and its challenges like DOM reconciliation and state management Express the behavior of your code both within tests and via various forms of documentation Who this book is for This book is for anyone who writes JavaScript professionally or otherwise As this book does not relate specifically to any particular framework or environment no prior experience of any JavaScript web framework is required Some knowledge of programming is assumed to understand the concepts covered in the book more effectively JavaScript Next Raju Gandhi, 2019-10-23 JavaScript has finally grown up Armed with a slew of new features JavaScript now makes writing the code that powers your applications elegant concise and easy to understand This book is a pragmatic guide to the new features introduced in JavaScript starting with Edition 6 of ECMAScript and ending with Edition 9 Using a compare and contrast approach each chapter offers a deep dive into new features highlighting how best to use them moving forward As you progress through the book you ll be offered multiple opportunities to see the new features in action and in concert with one another Backed by an example driven writing style you ll learn by doing and

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learning to provide context for the theoretical components in a series of code examples that can be used as modules of an application such as input validators games and simple animations This will be supplemented with a brief crash course on HTML and CSS to illustrate how JavaScript components fit into a complete web application As you learn the concepts you can try them in your own editor or browser console to get a solid understanding of how they work and what they do By the end of this JavaScript book you will feel confident writing core JavaScript code and be equipped to progress to more advanced libraries frameworks and environments such as React Angular and Node js What you will learn Use logic statements to make decisions within your code Save time with JavaScript loops by avoiding writing the same code repeatedly Use JavaScript functions and methods to selectively execute code Connect to HTML5 elements and bring your own web pages to life with interactive content Make your search patterns more effective with regular expressions Explore concurrency and asynchronous programming to process events efficiently and improve performance Get a head start on your next steps with primers on key libraries frameworks and APIs Who this book is for This book is for people who are new to JavaScript JS or those looking to build up their skills in web development Basic familiarity with HTML CSS would be beneficial Whether you are a junior or intermediate developer who needs an easy to understand practical guide for JS concepts a developer who wants to transition into working with JS or a student studying programming concepts using JS this book will prove helpful

Modern JavaScript Web Development Cookbook Federico Kereki, 2018-12-26 Over 90 recipes to help you write clean code solve common JavaScript problems and work on popular use cases like SPAs microservices native mobile development with Node React React Native and Electron Key Features Over 90 practical recipes to help you write clean and maintainable JavaScript codes with the latest ES8 Leverage the power of leading web frameworks like Node and React to build modern web apps Features comprehensive coverage of tools and techniques needed to create multi platform apps with JavaScript Book Description JavaScript has evolved into a language that you can use on any platform Modern JavaScript Web Development Cookbook is a perfect blend of solutions for traditional JavaScript development and modern areas that developers have lately been exploring with JavaScript This comprehensive guide teaches you how to work with JavaScript on servers browsers mobile phones and desktops You will start by exploring the new features of ES8 You will then move on to learning the use of ES8 on servers with Node js with the objective of producing services and microservices and dealing with authentication and CORS Once you get accustomed to ES8 you will learn to apply it to browsers using frameworks such as React and Redux which interact through Ajax with services You will then understand the use of a modern framework to develop the UI In addition to this development for mobile devices with React Native will walk you through the benefits of creating native apps both for Android and iOS Finally you ll be able to apply your new found knowledge of server side and client side tools to develop applications with Electron What you will learn Use the latest features of ES8 and learn new ways to code with JavaScript Develop server side services and microservices with Node js Learn to do unit testing and to debug

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