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JavaScript Allongé "O'Reilly Media, Inc."

Gain a deeper understanding of JavaScript and apply it to build small applications in backend, frontend, and mobile frameworks. Key Features Explore the new ES6 syntax, the event loop, and asynchronous programming Learn the test-driven development approach when building apps Master advanced JavaScript concepts to enhance your web developments skill Book Description If you are looking for a programming language to develop flexible and efficient applications, JavaScript is an obvious choice. Advanced JavaScript is a hands-on guide that takes you through JavaScript and its many features, one step at a time. You'll begin by learning how to use the new JavaScript syntax in ES6, and then work through the many other features that modern JavaScript has to offer. As you progress through the chapters, you'll use asynchronous programming with callbacks and promises, handle browser events, and perform Document Object Model (DOM) manipulation. You'll also explore various methods of testing JavaScript projects. In the concluding chapters, you'll discover functional programming and learn to use it to build your apps. With this book as your guide, you'll also be able to develop APIs using Node.js and Express, create front-ends using React/Redux, and build mobile apps using React/Expo. By the end of Advanced JavaScript, you will have explored the features and benefits of JavaScript to build small applications. What you will learn Examine major features in ES6 and implement those features to build applications Create promise and callback handlers to work with asynchronous processes Develop asynchronous flows using Promise chaining and async/await syntax Manipulate the DOM with JavaScript Handle JavaScript browser events Explore Test Driven Development and build code tests with JavaScript code testing frameworks. List the benefits and drawbacks of functional programming compared to other styles Construct applications with the Node.js backend framework and the React frontend framework Who this book is for This book is designed to target anyone who wants to write JavaScript in a professional environment. We expect the audience to have used JavaScript in some capacity and be familiar with the basic

syntax. This book would be good for a tech enthusiast wondering when to use generators or how to use Promises and Callbacks effectively, or a novice developer who wants to deepen their knowledge on JavaScript and understand TDD. You Don't Know JS Yet "O'Reilly Media, Inc." Any programmer working with a dynamically typed language will tell you how hard it is to scale to more lines of code and more engineers. That ' s why Facebook, Google, and Microsoft invented gradual static type layers for their dynamically typed JavaScript and Python code. This practical book shows you how one such type layer, TypeScript, is unique among them: it makes programming fun with its powerful static type system. If you ' re a programmer with intermediate JavaScript experience, author Boris Cherny will teach you how to master the TypeScript language. You ' ll understand how TypeScript can help you eliminate bugs in your code and enable you to scale your code across more engineers than you could before. In this book, you ' ll: Start with the basics: Learn about TypeScript ' s different types and type operators, including what they ' re for and how they ' re used Explore advanced topics: Understand TypeScript ' s sophisticated type system, including how to safely handle errors and build asynchronous programs Dive in hands-on: Use TypeScript with your favorite frontend and backend frameworks, migrate your existing JavaScript project to TypeScript, and run your TypeScript application in production You Don't Know JS: ES6 & Beyond Packt Publishing Ltd JavaScript Allongé solves two important problems for the ambitious JavaScript programmer. First, JavaScript Allongé gives you the tools to deal with JavaScript bugs, hitches, edge cases, and other potential pitfalls. There are plenty of good directions for how to write JavaScript programs. If you follow them without alteration or deviation, you will be satisfied. Unfortunately, software is a complex thing, full of interactions and

side-effects. Two perfectly reasonable pieces of advice when taken separately may conflict with each other when taken together. An approach may seem sound at the outset of a project, but need to be revised when new requirements are discovered. When you " leave the path " of the directions, you discover their limitations. In order to solve the problems that occur at the edges, in order to adapt and deal with changes, in order to refactor and rewrite as needed, you need to understand the underlying principles of the JavaScript programming language in detail. You need to understand why the directions work so that you can understand how to modify them to work properly at or beyond their original limitations. That ' s where JavaScript Allongé comes in. JavaScript Allongé is a book about programming with functions, because JavaScript is a programming language built on flexible and powerful functions. JavaScript Allongé begins at the beginning, with values and expressions, and builds from there to discuss types, identity, functions, closures, scopes, and many more subjects up to working with classes and instances. In each case, JavaScript Allongé takes care to explain exactly how things work so that when you encounter a problem, you ' ll know exactly what is happening and how to fix it. Second, JavaScript Allongé provides recipes for using functions to write software that is simpler, cleaner, and less complicated than alternative approaches that are object-centric or code-centric. JavaScript idioms like function combinators and decorators leverage JavaScript ' s power to make code easier to read, modify, debug and refactor, thus avoiding problems before they happen. JavaScript Allongé teaches you how to handle complex code, and it also teaches you how to simplify code without dumbing it down. As a result, JavaScript Allongé is a rich read releasing many of JavaScript ' s subtleties, much like the Caf é Allongé beloved by coffee enthusiasts everywhere. License: CC BY-SA 3.0 Source is available from Github * <https://github.com/justinkelly/javascript-allonge> Sams Teach Yourself HTML, CSS, and

JavaScript All in One "O'Reilly Media, Inc."

Like it or not, JavaScript is everywhere these days—from browser to server to mobile—and now you, too, need to learn the language or dive deeper than you have. This concise book guides you into and through JavaScript, written by a veteran programmer who once found himself in the same position. Speaking JavaScript helps you approach the language with four standalone sections. First, a quick-start guide teaches you just enough of the language to help you be productive right away. More experienced JavaScript programmers will find a complete and easy-to-read reference that covers each language feature in depth. Complete contents include: JavaScript quick start: Familiar with object-oriented programming? This part helps you learn JavaScript quickly and properly. JavaScript in depth: Learn details of ECMAScript 5, from syntax, variables, functions, and object-oriented programming to regular expressions and JSON with lots of examples. Pick a topic and jump in. Background: Understand JavaScript 's history and its relationship with other programming languages. Tips, tools, and libraries: Survey existing style guides, best practices, advanced techniques, module systems, package managers, build tools, and learning resources.

Effective TypeScript "O'Reilly Media, Inc."

"From library user to JavaScript developer"--Cover.

Fullstack React "O'Reilly Media, Inc."

Simply ES6 is a great book for people who love JavaScript and everything to do with it. This book contains lessons on ES6 for both novice and advanced JavaScript practitioners, Web-developers, React-Native users, and everyone else who uses JavaScript. No matter where you stand, if you read this book you will learn something that will help you improve your JavaScript skills. This is a great book for you if you are a few months into your web-development training. This book will save you years and years of frustrated lessons. The lessons are well structured, each section begins with a brief introduction, followed by tons of examples to follow and play with; and each chapter ends with a practice project explained in extensive detail, followed by a summary of that chapter to really condense the skills learned. If you love JavaScript then this book

is for you! If you want to master JavaScript then this book is for you! The 2nd Edition includes significant updates, 2 new chapters were added for Building CLI programs with ES6, and Introduction to Machine Learning, AI, Data Science, Robotics, TensorFlow, Hardware Programming with JavaScript.

Real-World Next.js Simon and Schuster

TypeScript is a typed superset of JavaScript with the potential to solve many of the headaches for which JavaScript is famous. But TypeScript has a learning curve of its own, and understanding how to use it effectively can take time. This book guides you through 62 specific ways to improve your use of TypeScript.

Author Dan Vanderkam, a principal software engineer at Sidewalk Labs, shows you how to apply these ideas, following the format popularized by Effective C++ and Effective Java (both from Addison-Wesley). You'll advance from a beginning or intermediate user familiar with the basics to an advanced user who knows how to use the language well.

Effective TypeScript is divided into eight chapters: Getting to Know TypeScript TypeScript's Type System Type Inference Type Design Working with any Types Declarations and @types Writing and Running Your Code Migrating to TypeScript

Eloquent JavaScript "O'Reilly Media, Inc."

Summary Get Programming with JavaScript is a hands-on introduction to programming for readers who have never programmed. You'll be writing your own web apps, games, and programs in no time! Foreword by Remy Sharp. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Book Are you ready to start writing your own web apps, games, and programs? You're in the right place! Get Programming with JavaScript is a hands-on

introduction to programming for readers who have never written a line of code. Since you're just getting started, this friendly book offers you lots of examples backed by careful explanations. As you go along, you'll find exercises to check your understanding and plenty of opportunities to practice your new skills. You don't need anything special to follow the examples—just the text editor and web browser already installed on your computer. We even give you links to working online code so you can see how everything should look live on your screen. What's Inside All the basics—objects, functions, responding to users, and more Think like a coder and design your own programs Create a text-based adventure game Enhance web pages with JavaScript Run your programs in a web browser Four bonus chapters available online About the Reader No experience required! All you need is a web browser and an internet connection. About the Author John Larsen is a mathematics and computing teacher with an interest in educational research. He has an MA in mathematics and an MSc in information technology. He started programming in 1982, writing simple programs for teaching mathematics in 1993, building websites in 2001, and developing data-driven web-based applications for education in 2006. Table of Contents PART 1 CORE CONCEPTS ON THE CONSOLE Programming, JavaScript, and JS Bin Variables: storing data in your program Objects: grouping your data Functions: code on demand Arguments: passing data to functions Return values: getting data from functions Object arguments: functions working with objects Arrays: putting data into lists Constructors: building objects with functions Bracket notation: flexible property names PART 2 ORGANIZING YOUR PROGRAMS Scope: hiding information Conditions: choosing code to run Modules: breaking a program into pieces Models: working with data Views: displaying data Controllers: linking models and

views PART 3 JAVASCRIPT IN THE BROWSER HTML: building web pages Controls: getting user input Templates: filling placeholders with data XHR: loading data Conclusion: get programming with JavaScript BONUS ONLINE CHAPTERS Node: running JavaScript outside the browser Express: building an API Polling: repeating requests with XHR Socket.IO: real-time messaging Node.js in Practice Simon and Schuster Summary Angular in Action teaches you everything you need to build production-ready Angular applications. Thoroughly practical and packed with tricks and tips, this hands-on tutorial is perfect for web devs ready to build web applications that can handle whatever you throw at them. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Angular makes it easy to deliver amazing web apps. This powerful JavaScript platform provides the tooling to manage your project, libraries to help handle most common tasks, and a rich ecosystem full of third-party capabilities to add as needed. Built with developer productivity in mind, Angular boosts your efficiency with a modern component architecture, well-constructed APIs, and a rich community. About the Book Angular in Action teaches you everything you need to build production-ready Angular applications. You'll start coding immediately, as you move from the basics to advanced techniques like testing, dependency injection, and performance tuning. Along the way, you'll take advantage of TypeScript and ES2015 features to write clear, well-architected code. Thoroughly practical and packed with tricks and tips, this hands-on tutorial is perfect for web devs ready to build web applications that can handle whatever you throw at them. What's Inside Spinning up your first Angular application A complete tour of Angular's features Comprehensive example

projects Testing and debugging Managing large applications About the Reader Written for web developers comfortable with JavaScript, HTML, and CSS. About the Author Jeremy Wilken is a Google Developer Expert in Angular, Web Technologies, and Google Assistant. He has many years of experience building web applications and libraries for eBay, Teradata, and VMware. Table of Contents Angular: a modern web platform Building your first Angular app App essentials Component basics Advanced components Services Routing Building custom directives and pipes Forms Testing your application Angular in production **D3.js in Action** Fullstack.IO Create scalable, reusable high-quality JavaScript applications and libraries Get Programming with JavaScript Next O'Reilly Media LEARN REACT TODAY The up-to-date, in-depth, complete guide to React and friends. Become a ReactJS expert today **Professional JavaScript for Web Developers** Apress Asynchronous JavaScript is everywhere, whether you're using Ajax, AngularJS, Node.js, or WebRTC. This practical guide shows intermediate to advanced JavaScript developers how Promises can help you manage asynchronous code effectively—including the inevitable flood of callbacks as your codebase grows. You'll learn the inner workings of Promises and ways to avoid difficulties and missteps when using them. The ability to asynchronously fetch data and load scripts in the browser broadens the capabilities of JavaScript applications. But if you don't understand how the async part works, you'll wind up with unpredictable code that's difficult to maintain. This book is ideal whether you're new to Promises or want to expand your knowledge of this technology. Understand how async JavaScript works by delving into callbacks, the event loop, and threading Learn how Promises organize callbacks into discrete steps that are easier to read and maintain Examine scenarios you'll encounter and techniques you can use when writing real-world applications Use features in the Bluebird library and jQuery to work with Promises Learn how the Promise API handles asynchronous errors Explore ECMAScript 6 language

features that simplify Promise-related code **Simply ES6** No Starch Press Provides information on how to write better JavaScript programs, covering such topics as functions, arrays, library and API design, and concurrency. **Angular in Action** Packt Publishing Ltd This book makes JavaScript less challenging to learn for newcomers, by offering a modern view that is as consistent as possible. Highlights: Get started quickly, by initially focusing on modern features. Test-driven exercises and quizzes available for most chapters (sold separately). Covers all essential features of JavaScript, up to and including ES2019. Optional advanced sections let you dig deeper. No prior knowledge of JavaScript is required, but you should know how to program. *JavaScript Cookbook* Apress Summary Functional Programming in JavaScript teaches JavaScript developers functional techniques that will improve extensibility, modularity, reusability, testability, and performance. Through concrete examples and jargon-free explanations, this book teaches you how to apply functional programming to real-life development tasks Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology In complex web applications, the low-level details of your JavaScript code can obscure the workings of the system as a whole. As a coding style, functional programming (FP) promotes loosely coupled relationships among the components of your application, making the big picture easier to design, communicate, and maintain. About the Book Functional Programming in JavaScript teaches you techniques to improve your web applications - their extensibility, modularity, reusability, and testability, as well as their performance. This easy-to-read book uses

concrete examples and clear explanations to show you how to use functional programming in real life. If you're new to functional programming, you'll appreciate this guide's many insightful comparisons to imperative or object-oriented programming that help you understand functional design. By the end, you'll think about application design in a fresh new way, and you may even grow to appreciate monads! What's Inside High-value FP techniques for real-world uses Using FP where it makes the most sense Separating the logic of your system from implementation details FP-style error handling, testing, and debugging All code samples use JavaScript ES6 (ES 2015) About the Reader Written for developers with a solid grasp of JavaScript fundamentals and web application design. About the Author Luis Atencio is a software engineer and architect building enterprise applications in Java, PHP, and JavaScript. Table of Contents PART 1 THINK FUNCTIONALLY Becoming functional Higher-order JavaScript PART 2 GET FUNCTIONAL Few data structures, many operations Toward modular, reusable code Design patterns against complexity PART 3 ENHANCING YOUR FUNCTIONAL SKILLS Bulletproofing your code Functional optimizations Managing asynchronous events and data Learning JavaScript Design Patterns Pearson Professional Learn how to use Next.js for building web apps without compromising performance, user experience, and developer happiness Key Features Develop scalable web applications using Next.js Use Next.js as a frontend for existing backends and e-commerce websites and understand how to implement it with any headless CMS Deploy Next.js on different platforms, such as Vercel, DigitalOcean, and AWS, or on your own server Book Description Next.js is a scalable and high-performance React.js framework for modern web development and provides a large set of features, such as hybrid rendering, route prefetching, automatic image optimization, and internationalization, out of the box. If you are looking to create

a blog, an e-commerce website, or a simple website, this book will show you how you can use the multipurpose Next.js framework to create an impressive user experience. Starting with the basics of Next.js, the book demonstrates how the framework can help you reach your development goals. You'll realize how versatile Next.js is as you build real-world applications with step-by-step explanations. This Next.js book will guide you in choosing the right rendering methodology for your website, securing it, and deploying it to different providers, all while focusing on performance and developer happiness. By the end of the book, you'll be able to design, build, and deploy modern architectures using Next.js with any headless CMS or data source. What you will learn Get up to speed with Next.js essentials and learn how to build apps quickly Understand how to create scalable Next.js architectures Choose between different rendering strategies, such as client-side rendering (CSR), static site generation (SSG), server-side rendering (SSR), and incremental static regeneration (ISR) Write unit tests and integration tests in your Next.js application Discover the powerful routing system and Next.js' built-in components Design and build modern architectures with Next.js using GraphQL CMS or any headless CMS Who this book is for This book is for web developers who want to improve their React skills by building scalable and maintainable full-stack applications using the modern Next.js web framework. Intermediate-level knowledge of ES6+, React, Node.js, and REST is assumed. *JavaScript for Impatient Programmers* "O'Reilly Media, Inc." ECMAScript 6 represents the biggest update to the core of JavaScript in the history of the language. In *Understanding ECMAScript 6*, expert developer Nicholas C. Zakas provides a complete guide to the object types, syntax, and other exciting changes that ECMAScript 6 brings to JavaScript. Every chapter is packed with example code that works in any JavaScript environment so you'll be able to see new features in action. You'll learn: -How ECMAScript 6 class syntax relates to more

-What makes iterators and generators useful -How arrow functions differ from regular functions -Ways to store data with sets, maps, and more -The power of inheritance -How to improve asynchronous programming with promises -How modules change the way you organize code Whether you're a web developer or a Node.js developer, you'll find *Understanding ECMAScript 6* indispensable on your journey from ECMAScript 5 to ECMAScript 6. Packt Publishing Ltd Learn how to build dynamic web applications with Express, a key component of the Node/JavaScript development stack. In this hands-on guide, author Ethan Brown teaches you the fundamentals through the development of a fictional application that exposes a public website and a RESTful API. You'll also learn web architecture best practices to help you build single-page, multi-page, and hybrid web apps with Express. Express strikes a balance between a robust framework and no framework at all, allowing you a free hand in your architecture choices. With this book, frontend and backend engineers familiar with JavaScript will discover new ways of looking at web development. Create webpage templating system for rendering dynamic data Dive into request and response objects, middleware, and URL routing Simulate a production environment for testing and development Focus on persistence with document databases, particularly MongoDB Make your resources available to other programs with RESTful APIs Build secure apps with authentication, authorization, and HTTPS Integrate with social media, geolocation, and other third-party services Implement a plan for launching and maintaining your app Learn critical debugging skills This book covers Express 4.0. *Object-Oriented JavaScript* SitePoint No matter how much experience you have with JavaScript, odds are you don't fully understand

the language. As part of the "You Don't Know JS" series, this compact guide focuses on new features available in ECMAScript 6 (ES6), the latest version of the standard upon which JavaScript is built. Like other books in this series, You Don't Know JS: ES6 & Beyond dives into trickier parts of the language that many JavaScript programmers either avoid or know nothing about. Armed with this knowledge, you can achieve true JavaScript mastery. With this book, you will:

- Learn new ES6 syntax that eases the pain points of common programming idioms
- Organize code with iterators, generators, modules, and classes
- Express async flow control with Promises combined with generators
- Use collections to work more efficiently with data in structured ways
- Leverage new API helpers, including Array, Object, Math, Number, and String
- Extend your program's capabilities through meta programming
- Preview features likely coming to JS beyond ES6

Programming TypeScript Simply
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