
Learning React Functional Web Development With React And Redux

An Exploration of Functional Programming and Object Composition in JavaScript
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Master the World's Most-Used Programming Language

BRENDAN CABRERA

An Exploration of Functional Programming and Object Composition in JavaScript Pragmatic Bookshelf

Build real-time responsive web apps using React and Bootstrap About This Book* Showcase the power of React-Bootstrap through real-world examples* Explore the benefits of integrating React with various frameworks and APIs* See the benefits of using the latest frameworks to make your web development experience enchanting Who This Book Is For This book is for anybody who is interested in modern web development and has intermediate knowledge of HTML, CSS, and JavaScript. Basic knowledge of any JavaScript MVC framework would also be helpful. What You Will Learn* See how to integrate React-Bootstrap with React* Explore the Redux architecture and understand its benefits* Build a custom responsive theme* Easily interact with DOM on your web browser* Appreciate the advantages of using JSX* Get acquainted with the various routing methods in React* Integrate external APIs into React In Detail React-Bootstrap is one of the most popular front-end frameworks, and integrating it with React allows web developers to write much cleaner code. This book will help you gain a thorough understanding of the React-Bootstrap framework and show you how to build impressive web apps. In this book, you will get an overview of the features of React-Bootstrap and ReactJS, along with the integration of ReactJS components with ReactJS. You will understand the benefits of using JSX and the Redux architecture. The server-side rendering of React will also be shown. All the concepts are explained by developing real-world examples. By the end of this book, you will be equipped to create responsive web applications using React-Bootstrap with ReactJS, and will have an insight into the best practices.

Learning React "O'Reilly Media, Inc."

Hit the ground running with React, the open-source technology from Facebook for building rich web applications fast. With this practical guide, Yahoo! web developer Stoyan Stefanov teaches you how to build components—React's basic building blocks—and

organize them into maintainable, large-scale apps. If you're familiar with basic JavaScript syntax, you're ready to get started. Once you understand how React works, you'll build a complete custom Whinepad app that helps users rate wines and keep notes. You'll quickly learn why some developers consider React the key to the web app development puzzle. Set up React and write your first "Hello world" web app Create and use custom React components alongside generic DOM components Build a data table component that lets you edit, sort, search, and export its contents Use the JSX syntax extension as an alternative to function calls Set up a lean, low-level build process that helps you focus on React Build a complete custom app that lets you store data on the client Use ESLint, Flow, and Jest tools to check and test your code as your app evolves Manage communication between components with Flux

A Modern Introduction to Programming Addison-Wesley Professional

For web developers and other programmers interested in using JavaScript, this bestselling book provides the most comprehensive JavaScript material on the market. The seventh edition represents a significant update, with new information for ECMAScript 2020, and new chapters on language-specific features. JavaScript: The Definitive Guide is ideal for experienced programmers who want to learn the programming language of the web, and for current JavaScript programmers who want to master it.

Learning React Packt Publishing Ltd

Summary React in Action introduces front-end developers to the React framework and related tools. This clearly written, example-rich book begins by introducing you to React, diving into some of the fundamental ideas in React, and working with components. In the second section, you'll explore the different ways that data works in React as well as learning more about components. You'll also find several useful appendixes covering related topics like React tooling and the React ecosystem. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Facebook created React to help deliver amazing user experiences on a website with thousands of components and an incomprehensible amount of traffic. The same powerful tools are available to you too! The key

is a clever design for managing state, data flow, and rendering, so your application is easy to think about and runs smoothly. Add an incredibly rich ecosystem of components and libraries, and you've got a recipe for building web apps that will delight both developers and users. About the Book React in Action teaches you to think like a pro about user interfaces and building them with React. This practical book gets you up and running quickly with hands-on examples in every chapter. You'll master core topics like rendering, lifecycle methods, JSX, data flow, forms, routing, integrating with third-party libraries, and testing. And the included application design ideas will help make your apps pop. As you learn to integrate React into full-stack applications, you'll explore state management with Redux and server-side rendering, and even dabble in React Native for mobile UIs. What's Inside React from the ground up Implementing a routing system with components Server-side rendering in Node.js Working with third-party libraries Testing React components About the Reader Written for developers familiar with HTML, CSS, and JavaScript. About the Author Mark Thomas is an experienced software engineer who works daily with React, JavaScript, and Node.js. He loves clean code, beautiful systems, and good coffee. Table of Contents PART 1 - MEET REACT Meet React Our first component PART 2 - COMPONENTS AND DATA IN REACT Data and data flow in React Rendering and lifecycle methods in React Working with forms in React Integrating third-party libraries with React Routing in React More routing and integrating Firebase Testing React components PART 3 - REACT APPLICATION ARCHITECTURE Redux application architecture More Redux and integrating Redux with React React on the server and integrating React Router An introduction to React Native

Learning React JavaScript Library from Scratch "O'Reilly Media, Inc."

React is one of the most popular JavaScript libraries for creating user interfaces. React embraces functional programming. Programming in a functional style means to use concepts such as pure functions, immutability, closures, higher-order components, partial application or currying. The basic unit in React is the component. React makes it easy to build components with functions. Components become mapping functions that transform

data into a user interface. A higher-order component is a function that transforms a component into another component. React Hooks enables function components to store state. Redux does state management using functional principles. Reducers, selectors, action creators are pure functions. MobX makes state observable and turns components into observers.

Ruby on Rails Tutorial O'Reilly Media

Code collaboratively with GitHub Once you've learned the basics of coding the next step is to start sharing your expertise, learning from other coding pros, or working as a collaborative member of development teams. GitHub is the go-to community for facilitating coding collaboration, and GitHub For Dummies is the next step on your journey as a developer. Written by a GitHub engineer, this book is packed with insight on how GitHub works and how you can use it to become a more effective, efficient, and valuable member of any collaborative programming team. Store and share your work online with GitHub Collaborate with others on your team or across the international coding community Embrace open-source values and processes Establish yourself as a valuable member of the GitHub community From setting up GitHub on your desktop and launching your first project to cloning repositories, finding useful apps on the marketplace, and improving workflow, GitHub For Dummies covers the essentials the novice programmer needs to enhance collaboration and teamwork with this industry-standard tool.

Pro React 16 "O'Reilly Media, Inc."

My fourth web development book is simply called React.js Book. It will walk you step by step through the process of setting up a development environment and learning Reactive programming from start to finish. React is a library unlike any other I have worked with. Unlike jQuery where you had to learn a number of methods that do very specific things, it's largely inspired by a programming methodology for creating fast web applications. In addition you will be expected to know or at least be briefly familiar with prerequisite knowledge of other web development tools such as Node.js, NPM, Babel, JSX and WebPack. These are not required elements of programming with React, but without them things would be tough. As of 2017, Reactive programming is an alternative way of thinking about web applications. It provides software patterns that make your web app extremely responsive to user input and generally feel faster to the end-user (people

who are using your application.) The Virtual DOM alone is enough of a reason to switch to React. Programming with React library, is a lot more than just learning about and using React objects, components, states, props and methods. It requires previous experience with JavaScript and at times assumes knowledge of software principles not inherent to React library itself. This book is not a list of object names, methods and functions with side explanations of what they do. Rather, it deals with the said principles involved in React programming thought up by the creators of React library. Principles that are usually understood by professional web developers and software engineers. For all these reasons stated above, this book will gradually walk you through the process of becoming familiar with React library, starting from basic concepts. Gradually, we will move toward more advanced subjects. So, prepare to be educated

Add Sparkle and Life to Your Web Pages "O'Reilly Media, Inc."

ClojureScript is a pragmatic functional programming language for building web applications. Whether you are an experienced JavaScript developer or a brand-new programmer, this book is your guide to creating impressive web apps in the simple and elegant ClojureScript language. The tutorial-style lessons are easy to follow at your own pace, and the practical capstone projects will reinforce what you have learned. By the end of the book, you will have created: - A weather forecast widget - A personal contact manager - A text-based adventure game - A group chat app - And more!

Learning ReactFunctional Web Development with React and Redux If you want to learn how to build efficient user interfaces with React, this is your book. Authors Alex Banks and Eve Porcello show you how to create UIs with this small JavaScript library that can deftly display data changes on large-scale, data-driven websites without page reloads. Along the way, you'll learn how to work with functional programming and the latest ECMAScript features. Developed by Facebook, and used by companies including Netflix, Walmart, and The New York Times for large parts of their web interfaces, React is quickly growing in use. By learning how to build React components with this hands-on guide, you'll fully understand how useful React can be in your organization. Learn key functional programming concepts with JavaScript Peek under the hood to understand how React runs in the browser; Create application presentation layers by mounting

and composing React components; Use component trees to manage data and reduce the time you spend debugging applications; Explore React's component lifecycle and use it to load data and improve UI performance; Use a routing solution for browser history, bookmarks, and other features of single-page applications; Learn how to structure React applications with servers in mind. Learning ReactFunctional Web Development with React and Redux

LAST UPDATE: 09. June 2021 If you are looking for a comprehensive and pragmatic yet concise and up-to-date React.js feat. Hooks book, the Road to React is for you. What you will learn. In "The Road to React" you will learn about all the fundamentals of React.js with Hooks while building a full-blown React application step by step. While you create the React application, every chapter will introduce you to a new React key feature. However, there is more than only the fundamentals: The book dives into related topics (e.g. React with TypeScript, Testing, Performance Optimizations) and advanced feature implementations like client- and server-side searching. At the end of the book, you will have a fully working deployed React application. Is it up to date? Programming books are usually outdated soon after their release, but since this book is self-published, I can update it as needed whenever a new version of something related to this book gets released. I am a beginner. Is this book for me? Yes. The book starts from zero and takes you through the learning experience step by step. Every chapter builds up on the learnings from the previous chapter. In addition, at the end of every chapter, exercises fortify your lessons learned. If you got stuck in a chapter, you will always find a reference URL to the status quo of the actual code. Core Concepts Pragmatic: Master React while building a complete application step by step. Problems Solving: You need to experience a problem first before solving it. The Why: Readers like how the book answers the Why, not only the How. Table of Contents Fundamentals of React Hello React Requirements Setting up a React Project Meet the React Component React JSX Lists in React Meet another React Component React Component Instantiation ReactDOM React Component Definition (Advanced) Handler Function in JSX React Props React State Callback Handlers in JSX Lifting State in React React Controlled Components Props Handling (Advanced) React Side-Effects React Custom Hooks

(Advanced) React Fragments Reusable React Component React Component Composition Imperative React Inline Handler in JSX React Asynchronous Data React Conditional Rendering React Advanced State React Impossible States Data Fetching with React Data Re-Fetching in React Memoized Handler in React (Advanced) Explicit Data Fetching with React Third-Party Libraries in React Async/Await in React (Advanced) Forms in React React's Legacy React Class Components React Class Components: State Imperative React Styling in React CSS in React CSS Modules in React Styled Components in React SVGs in React React Maintenance Performance in React (Advanced) TypeScript in React Unit Testing to Integration Testing React Project Structure Real World React (Advanced) Sorting Reverse Sort Remember Last Searches Paginated Fetch Deploying a React Application Build Process Deploy to Firebase

Speaking JavaScript O'Reilly Media

This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. Used by sites as varied as Twitter, GitHub, Disney, and Airbnb, Ruby on Rails is one of the most popular frameworks for developing web applications, but it can be challenging to learn and use. Whether you're new to web development or new only to Rails, *Ruby on Rails™ Tutorial, Fourth Edition*, is the solution. Best-selling author and leading Rails developer Michael Hartl teaches Rails by guiding you through the development of three example applications of increasing sophistication. The tutorial's examples focus on the general principles of web development needed for virtually any kind of website. The updates to this edition include full compatibility with Rails 5, a division of the largest chapters into more manageable units, and a huge number of new exercises interspersed in each chapter for maximum reinforcement of the material. This indispensable guide provides integrated tutorials not only for Rails, but also for the essential Ruby, HTML, CSS, and SQL skills you need when developing web applications. Hartl explains how each new technique solves a real-world problem, and then he demonstrates it with bite-sized code that's simple enough to understand, yet novel enough to be useful. Whatever your previous web development experience, this book will guide you to true Rails mastery. This book will help you Install and set up your Rails development environment, including pre-installed integrated

development environment (IDE) in the cloud Go beyond generated code to truly understand how to build Rails applications from scratch Learn testing and test-driven development (TDD) Effectively use the Model-View-Controller (MVC) pattern Structure applications using the REST architecture Build static pages and transform them into dynamic ones Master the Ruby programming skills all Rails developers need Create high-quality site layouts and data models Implement registration and authentication systems, including validation and secure passwords Update, display, and delete users Upload images in production using a cloud storage service Implement account activation and password reset, including sending email with Rails Add social features and microblogging, including an introduction to Ajax Record version changes with Git and create a secure remote repository at Bitbucket Deploy your applications early and often with Heroku

Learn Unity for Android Game Development Fullstack.IO

This is an exciting time to learn JavaScript. Now that the latest JavaScript specification ECMAScript 6.0 (ES6) has been finalized, learning how to develop high-quality applications with this language is easier and more satisfying than ever. This practical book takes programmers (amateurs and pros alike) on a no-nonsense tour of ES6, along with some related tools and techniques. Author Ethan Brown ("Web Development with Node and Express") not only guides you through simple and straightforward topics (variables, control flow, arrays), but also covers complex concepts such as functional and asynchronous programming. You'll learn how to create powerful and responsive web applications on the client, or with Node.js on the server. Use ES6 today and transcompile code to portable ES5 Translate data into a format that JavaScript can use Understand the basic usage and mechanics of JavaScript functions Explore objects and object-oriented programming Tackle new concepts such as iterators, generators, and proxies Grasp the complexities of asynchronous programming Work with the Document Object Model for browser-based apps Learn Node.js fundamentals for developing server-side applications"

Leveraging the JavaScript Stack "O'Reilly Media, Inc."

Explore the functional programming paradigm and the different techniques for developing better algorithms, writing more concise code, and performing seamless testing

Key Features Explore this

second edition updated to cover features like async functions and transducers, as well as functional reactive programming Enhance your functional programming (FP) skills to build web and server apps using JavaScript Use FP to enhance the modularity, reusability, and performance of apps Book Description Functional programming is a paradigm for developing software with better performance. It helps you write concise and testable code. To help you take your programming skills to the next level, this comprehensive book will assist you in harnessing the capabilities of functional programming with JavaScript and writing highly maintainable and testable web and server apps using functional JavaScript. This second edition is updated and improved to cover features such as transducers, lenses, prisms and various other concepts to help you write efficient programs. By focusing on functional programming, you'll not only start to write but also to test pure functions, and reduce side effects. The book also specifically allows you to discover techniques for simplifying code and applying recursion for loopless coding. Gradually, you'll understand how to achieve immutability, implement design patterns, and work with data types for your application, before going on to learn functional reactive programming to handle complex events in your app. Finally, the book will take you through the design patterns that are relevant to functional programming. By the end of this book, you'll have developed your JavaScript skills and have gained knowledge of the essential functional programming techniques to program effectively. What you will learn Simplify JavaScript coding using function composition, pipelining, chaining, and transducing Use declarative coding as opposed to imperative coding to write clean JavaScript code Create more reliable code with closures and immutable data Apply practical solutions to complex programming problems using recursion Improve your functional code using data types, type checking, and immutability Understand advanced functional programming concepts such as lenses and prisms for data access Who this book is for This book is for JavaScript developers who want to enhance their programming skills and build efficient web applications. Frontend and backend developers who use various JavaScript frameworks and libraries like React, Angular, or Node.js will also find the book helpful. Working knowledge of ES2019 is required to grasp the concepts covered in the book easily.

Your Step-By-Step Guide to React Packt Publishing Ltd

This ultimate guide on React Hooks helps you modernize managing state and effects in React apps using Hooks. You will learn various types of Hooks and how it integrates with Context and Suspense APIs. You will create custom Hooks and learn to use Hooks with Redux and MobX. Lastly, you will learn to migrate your existing React applications to Hooks.

Designing and Developing Distributed Web Services No Starch Press

Use the enormously popular React framework to build dynamic JavaScript applications that take advantage of the capabilities of modern browsers and devices. You will learn how React brings the power of strong architecture and responsive data to the client, providing the foundation for complex and rich user interfaces.

Best-selling author Adam Freeman explains how to get the most from React. He begins by describing the React architecture and the benefits it offers and then shows you how to use React and its associated tools and libraries in your projects, starting from the nuts and bolts and building up to the most advanced and sophisticated features, going in-depth to give you the knowledge you need. Each topic is presented clearly and concisely. Chapters include common problems and how to avoid them. What You'll

Learn Gain a solid understanding of the React design Create rich and dynamic web app clients using React Create data stores using Redux Consume data using REST and GraphQL Test your React projects Who This Book Is For JavaScript developers who want to use React to create dynamic client-side applications

Developing Web Applications with Python Simon and Schuster

Learning React A hands-on guide to building web applications using React and Redux As far as new web frameworks and libraries go, React is quite the runaway success. It not only deals with the most common problems developers face when building complex apps, it throws in a few additional tricks that make building the visuals for such apps much, much easier. What React isn't, though, is beginner-friendly and approachable. Until now. In Learning React , author Kirupa Chinnathambi brings his fresh, clear, and very personable writing style to help web developers new to React understand its fundamentals and how to use it to build really performant (and awesome) apps. The only book on the market that helps you get your first React app up and running in just minutes, Learning React is chock-full of colorful illustrations

to help you visualize difficult concepts and practical step-by-step examples to show you how to apply what you learn. Build your first React app Create components to define parts of your UI Combine components into other components to build more complex UIs Use JSX to specify visuals without writing full-fledged JavaScript Deal with maintaining state Work with React's way of styling content Make sense of the mysterious component lifecycle Build multi-page apps using routing and views Optimize your React workflow using tools such as Node, Babel, webpack, and others Use Redux to make managing your app data and state easy Contents at a Glance 1 Introducing React 2 Building Your First React App 3 Components in React 4 Styling in React 5 Creating Complex Components 6 Transferring Properties 7 Meet JSX... Again! 8 Dealing with State in React 9 Going from Data to UI in React 10 Events in React 11 The Component Lifecycle 12 Accessing DOM Elements in React 13 Setting Up Your React Dev Environment 14 Working with External Data in React 15 Building an Awesome Todo List App in React 16 Creating a Sliding Menu in React 17 Avoiding Unnecessary Renders in React 18 Creating a Single-Page App in React Using React Router 19 Introduction to Redux 20 Using Redux with React

Learning React John Wiley & Sons

Completely revised and updated, this best-selling introduction to programming in JavaScript focuses on writing real applications. JavaScript lies at the heart of almost every modern web application, from social apps like Twitter to browser-based game frameworks like Phaser and Babylon. Though simple for beginners to pick up and play with, JavaScript is a flexible, complex language that you can use to build full-scale applications. This much anticipated and thoroughly revised third edition of Eloquent JavaScript dives deep into the JavaScript language to show you how to write beautiful, effective code. It has been updated to reflect the current state of JavaScript and web browsers and includes brand-new material on features like class notation, arrow functions, iterators, async functions, template strings, and block scope. A host of new exercises have also been added to test your skills and keep you on track. As with previous editions, Haverbeke continues to teach through extensive examples and immerses you in code from the start, while exercises and full-chapter projects give you hands-on experience with writing your own programs. You start by learning the basic structure of the

JavaScript language as well as control structures, functions, and data structures to help you write basic programs. Then you'll learn about error handling and bug fixing, modularity, and asynchronous programming before moving on to web browsers and how JavaScript is used to program them. As you build projects such as an artificial life simulation, a simple programming language, and a paint program, you'll learn how to: - Understand the essential elements of programming, including syntax, control, and data - Organize and clarify your code with object-oriented and functional programming techniques - Script the browser and make basic web applications - Use the DOM effectively to interact with browsers - Harness Node.js to build servers and utilities Isn't it time you became fluent in the language of the Web? * All source code is available online in an interactive sandbox, where you can edit the code, run it, and see its output instantly.

Eloquent JavaScript, 3rd Edition "O'Reilly Media, Inc."

LEARN REACT TODAY The up-to-date, in-depth, complete guide to React and friends. Become a ReactJS expert today

How to improve your JavaScript programs using functional techniques Robin Wieruch

Summary React Quickly is for anyone who wants to learn React.js fast. This hands-on book teaches you the concepts you need with lots of examples, tutorials, and a large main project that gets built throughout the book. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Successful user interfaces need to be visually interesting, fast, and flowing. The React.js JavaScript library supercharges view-heavy web applications by improving data flow between UI components. React sites update visual elements efficiently and smoothly, minimizing page reloads. React is developer friendly, with a strong ecosystem to support the dev process along the full application stack. And because it's all JavaScript, React is instantly familiar. About the Book React Quickly is the tutorial for web developers who want to get started fast with React.js. Following carefully chosen and clearly explained examples, you'll learn React development using your existing JavaScript and web dev skills. You'll explore a host of different projects as you learn about web components, forms, and data. What's Inside Master React fundamentals Build full web apps with data and routing Test components Optimize React apps About the Reader This book is for developers comfortable building

web applications with JavaScript. About the Author Azat Mardan is a Tech Fellow at Capital One with extensive experience using and teaching JavaScript and Node, and author of several books on JavaScript, Node, React, and Express. Table of Contents PART 1 - REACT FOUNDATION Meeting React Baby steps with React Introduction to JSX Making React interactive with states React component lifecycle events Handling events in React Working with forms in React Scaling React components Project: Menu component Project: Tooltip component Project: Timer component PART 2 - REACT ARCHITECTURE The Webpack build tool React routing Working with data using Redux Working with data using GraphQL Unit testing React with Jest React on Node and Universal JavaScript Project: Building a bookstore with React Router Project: Checking passwords with Jest Project: Implementing autocomplete with Jest, Express, and MongoDB APPENDIXES Appendix A - Installing applications used in this book Appendix B -

React cheatsheet Appendix C - Express.js cheatsheet Appendix D - MongoDB and Mongoose cheatsheet Appendix E - ES6 for success

Learning React Packt Publishing Ltd

This book will show you how you can leverage your Python skills to learn JavaScript by comparing them at the syntactical and semantical level. You'll discover why and when to use JavaScript, connect to a Node.js backend to create meaningful experiences, and finally create a full-stack application utilizing all layers of a web application.

Learn Web Development with Rails "O'Reilly Media, Inc."

If you want to learn how to build efficient React applications, this is your book. Ideal for web developers and software engineers who understand how JavaScript, CSS, and HTML work in the browser, this updated edition provides best practices and

patterns for writing modern React code. No prior knowledge of React or functional programming is necessary. Authors Alex Banks and Eve Porcello show you how to create UIs that can deftly display changes without page reloads on large-scale data-driven websites. You'll also discover how to work with functional programming and the latest ECMAScript features. Once you learn how to build React components with this hands-on guide, you'll understand just how useful React can be in your organization. Understand key functional programming concepts with JavaScript Look under the hood to learn how React runs in the browser Create application presentation layers with React components Manage data and reduce the time you spend debugging applications Explore React's component lifecycle to improve UI performance Use a routing solution for single-page application features Learn how to structure React applications with servers in mind

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