

Developing Backbone Js Applications

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React.js Essentials - Artemij Fedosejev 2015-08-27

A fast-paced guide to designing and building scalable and maintainable web apps with React.js About This Book Build maintainable and performant user interfaces for your web applications using React.js Create reusable React.js components to save time and effort in maintaining your user interfaces Learn how to build a ready-to-deploy React.js web application, following our step-by-step tutorial Who This Book Is For If you're a front-end developer with knowledge of jQuery and its libraries, along with frameworks, such as Angular.JS and Backbone.JS, or native JavaScript development, and you wish to use the fastest web user interface library there is, then this book is ideal for you. What You Will Learn Install powerful React.js tools to make development much more efficient Create React elements with properties and children Get started with stateless and stateful React components Use JSX to speed up your React.js development process Add reactivity to your React components with lifecycle methods Integrate your React components with other JavaScript libraries Utilize the Flux application architecture with your React components Test your React components with Jest test framework In Detail Building web applications with maintainable and performant user interfaces is a challenge that many have faced for more than a decade, but no one has risen to this challenge quite like React.js. Today React.js is used by Facebook, Instagram, Khan Academy, and Imperial College London, to name a few. Many new users recognize the benefits of React.js and adopt it in their own projects, forming a fast-growing community. The speed at which React.js has evolved promises a bright future for those who invest in learning it today. React.js Essentials will take you on a fast-paced journey through building your own maintainable React.js application. Begin by exploring how you can create single and multiple user interface elements. Create stateless and stateful components and make them reactive, learn to interact between your components and lifecycle methods and gauge how to effectively integrate your user interface components with other JavaScript libraries. Delve deep into the core elements of the Flux architecture and learn how to manage your application using stores. Finish by going that extra mile with the Jest test framework, running multiple tests on your application and find solutions to scale it further without complexity. Style and approach The book adopts a step-by-step, hands-on approach with ample codes to ensure you learn React.js at a fast pace.

Backbone.js Blueprints - Andrew Burgess 2014-05-18

This book is an easytofollow guide which is full of examples that will take you through building seven very different web applications with Backbone. The code is broken down into manageable bites and then thoroughly explained. If you are ready to learn about building frontend applications in Backbone, this is the book for you. Perhaps you've dipped your toe into Backbone and are ready to take the plunge. Even if you haven't, this book will teach you everything you need to know to build solid frontend apps with Backbone. You'll need to be pretty good at JavaScript and have a working knowledge of HTML and CSS, but other than that, you're good to go!...

Pro Single Page Application Development - Gil Fink 2014-05-10

One of the most important and exciting trends in web development in recent years is the move towards single page applications, or SPAs. Instead of clicking through hyperlinks and waiting for each page to load, the user loads a site once and all the interactivity is handled fluidly by a rich JavaScript front end. If you come from a background in ASP.NET development, you'll be used to handling most interactions on the server side. Pro Single Page Application Development will guide you through your transition to this

powerful new application type. The book starts in Part I by laying the groundwork for SPA development. You'll master some JavaScript techniques that will come in useful later on, and get to know the building blocks of a single page application, including modules, routing and MV* frameworks. In Part II, you'll build the client for your application. This is where the magic happens, as the authors take you through the process step by step. Backbone.js is the ideal library for demonstrating SPA development in practice, but you can apply the same principles with other frameworks in your future applications. Part III takes you through the process of building the server side of your application using ASP.NET Web API, and hooking up the two parts of your application to create a working whole. SPA development also comes with its own particular challenges, including tracking history, user interface performance, and how to handle search engine optimization. In the final chapters, the authors guide you through some of these issues and advanced techniques and finish by showing you how to deploy your application. As SPAs become the de facto standard of web application development, the in-depth Pro Single Page Application Development will be your one-stop shop for creating fluid, modern applications on the web.

Building Node Applications with MongoDB and Backbone - Mike Wilson 2012-12-11

Build an application from backend to browser with Node.js, and kick open the doors to real-time event programming. With this hands-on book, you'll learn how to create a social network application similar to LinkedIn and Facebook, but with a real-time twist. And you'll build it with just one programming language: JavaScript. If you're an experienced web developer unfamiliar with JavaScript, the book's first section introduces you to the project's core technologies: Node.js, Backbone.js, and the MongoDB data store. You'll then launch into the project—a highly responsive, highly scalable application—guided by clear explanations and lots of code examples. Learn about key modules in Node.js for building real-time apps Use the Backbone.js framework to write clean browser code, and maintain better data integration with MongoDB Structure project files as a foundation for code that will arrive later Create user accounts and learn how to secure the data Use Backbone.js templates to build the application's UIs, and integrate access control with Node.js Develop a contact list to help users link to and track other accounts Use Socket.io to create real-time chat functionality Extend your UIs to give users up-to-the-minute information

Developing Backbone.js Applications - Addy Osmani 2013-05-10

If you want to build your site's frontend with the single-page application (SPA) model, this hands-on book shows you how to get the job done with Backbone.js. You'll learn how to create structured JavaScript applications, using Backbone's own flavor of model-view-controller (MVC) architecture. Start with the basics of MVC, SPA, and Backbone, then get your hands dirty building sample applications—a simple Todo list app, a RESTful book library app, and a modular app with Backbone and RequireJS. Author Addy Osmani, an engineer for Google's Chrome team, also demonstrates advanced uses of the framework. Learn how Backbone.js brings MVC benefits to the client-side Write code that can be easily read, structured, and extended Work with the Backbone.Marionette and Thorax extension frameworks Solve common problems you'll encounter when using Backbone.js Organize your code into modules with AMD and RequireJS Paginate data for your Collections with the Backbone.Paginator plugin Bootstrap a new Backbone.js application with boilerplate code Use Backbone with jQuery Mobile and resolve routing problems between the two Unit-test your Backbone apps with Jasmine, QUnit, and SinonJS

[Learning JavaScript Design Patterns](#) - Addy Osmani 2012-07-08

With Learning JavaScript Design Patterns, you'll learn how to write beautiful, structured, and maintainable JavaScript by applying classical and modern design patterns to the language. If you want to keep your code efficient, more manageable, and up-to-date with the latest best practices, this book is for you. Explore many popular design patterns, including Modules, Observers, Facades, and Mediators. Learn how modern architectural patterns—such as MVC, MVP, and MVVM—are useful from the perspective of a modern web application developer. This book also walks experienced JavaScript developers through modern module formats, how to namespace code effectively, and other essential topics. Learn the structure of design patterns and how they are written Understand different pattern categories, including creational, structural, and behavioral Walk through more than 20 classical and modern design patterns in JavaScript Use several options for writing modular code—including the Module pattern, Asynchronous Module Definition (AMD), and CommonJS Discover design patterns implemented in the jQuery library Learn popular design patterns for writing maintainable jQuery plug-ins "This book should be in every JavaScript developer's hands. It's the go-to book on JavaScript patterns that will be read and referenced many times in the future."—Andrée Hansson, Lead Front-End Developer, presis!

Learni ng Pat terns Lydia Hallie 2021-10-31

In this book, you will learn design patterns, performance and rendering patterns for building high-quality web applications using modern JavaScript and React. Patterns are time-tested templates for writing code. They can be really powerful, whether you're a seasoned developer or beginner, bringing a valuable level of resilience and flexibility to your codebase. Whether it's better user-experience, developer-experience or just smarter architecture, the patterns in "Learning Patterns" can be a valuable consideration for any modern web application.

Jump Start Node.js - Don Nguyen 2012-11-03

Node.js is changing the way web apps are built. As Node.js apps are written in JavaScript, you can quickly and simply use your front-end skills to develop staggeringly fast, scalable real-time web applications. Read this book and, in a weekend, you'll learn how to: Develop a complete working Node.js application - from start-to-finish Deploy your new application to a production server Scale your projects quickly and cheaply PLUS discover how to use Twitter Bootstrap, MongoDB and Back-bone.js to create fancy web apps, extend their storage, and dy-namically update them.

Beji nni ng Backbone. j s James Sugrue 2013-12-15

Beginning Backbone.js is your step-by-step guide to learning and using the Backbone.js library in your web projects. Backbone.js is one of the most popular JavaScript libraries among web developers, used to create modular, single-page web apps. This book takes you from downloading Backbone.js and its dependencies all the way to using more advanced libraries to structure your application architecture, and everything in between. With a real-world, practical approach, you will learn how you can integrate Backbone.js into the center of your JavaScript stack, and create scalable applications. James Sugrue shows you how to implement all aspects of templating, work efficiently with RequireJS, and fully understand Grunt and all its plug-ins. Armed with this knowledge you'll be able to architect a continuous integration system that is key to real-world applications. With the explosion of JavaScript-based applications on the web, the need for more structured approaches to code management is more important than ever. Backbone.js helps create applications that separate models from views, enabling developers to avoid spaghetti code. Beginning Backbone.js will gently guide you into this amazingly powerful library, and help you ramp up to building professional applications. Integrate Backbone.js into your work today with this indispensable book. What you'll learn Learn the importance of MVC approaches in software development Learn why Backbone.js is so popular and how to integrate it into your JavaScript stack Understand core Backbone.js concepts such as models, views, routers, and events Test your application using the latest JavaScript testing tools Create build scripts using Grunt.js to simplify your build and deployment workflow Use additional libraries to build on the power of Backbone.js Avoid common beginner errors and code using best practices Who this book is for Beginning Backbone.js is for the web developer who is already confident with JavaScript, but who is keen to build larger, single-page web apps. If you want to introduce more structure, quality, and process to your web application using Backbone.js, and other leading JavaScript technologies, this is the book for you. Table of Contents Chapter 1: An Introduction To Backbone.js Chapter 2: Getting Object-Oriented Chapter 3:

Backbone.js Model, View, and Collections Chapter 4: Templating with Underscore, Handlebars, and Mustache Chapter 5: Backbone.js Routers and Events Chapter 6: Backbone.js Start To Finish: Twitter App Example Chapter 7: The Backbone Ecosystem Chapter 8: Testing Your Backbone.js Application Chapter 9: Using Grunt for Your Build Process Chapter 10: Extending Backbone.js with Marionette Chapter 11: Best Practices With Backbone.js Chapter 12: Creating A Manageable JavaScript Codebase

Dojo: The Definitive Guide - Matthew A. Russell 2008-06-17

Of all the Ajax-specific frameworks that have popped up in recent years, one clearly stands out as the industrial strength solution. Dojo is not just another JavaScript toolkit—it's the JavaScript toolkit—and Dojo: The Definitive Guide demonstrates how to tame Dojo's extensive library of utilities so that you can build rich and responsive web applications like never before. Dojo founder Alex Russell gives a foreword that explains the "why" of Dojo and of this book. Dojo provides an end-to-end solution for development in the browser, including everything from the core JavaScript library and turnkey widgets to build tools and a testing framework. Its vibrant open source community keeps adding to Dojo's arsenal, and this book provides an ideal companion to Dojo's official documentation. Dojo: the Definitive Guide gives you the most thorough overview of this toolkit available, showing you everything from how to create complex layouts and form controls closely resembling those found in the most advanced desktop applications with stock widgets, to advanced JavaScript idioms to AJAX and advanced communication transports. With this definitive reference you get: Get a concise introduction to Dojo that's good for all 1.x versions Well-explained examples, with scores of tested code samples, that let you see Dojo in action A comprehensive reference to Dojo's standard JavaScript library (including fundamental utilities in Base, Dojo's tiny but powerful kernel) that you'll wonder how you ever lived without An extensive look at additional Core features, such as animations, drag-and-drop, back-button handling, animations like wipe and slide, and more Exhaustive coverage of out-of-the-box Dijits (Dojo widgets) as well as definitive coverage on how to create your own, either from scratch or building on existing ones An itemized inventory of DojoX subprojects, the build tools, and the DOH, Dojo's unit-testing framework that you can use with Dojo—or anywhere else If you're a DHTML-toting web developer, you need to read this book—whether you're a one-person operation or part of an organization employing scores of developers. Dojo packs the standard JavaScript library you've always wanted, and Dojo: The Definitive Guide helps you transform your ideas into working applications quickly by leveraging design concepts you already know.

Backbone.js Patterns and Best Practices - Swarnendu De 2014-01-24

This is a step-by-step guide to design patterns, best practices, and solutions to common problems for Backbone.js-based application development. This book is for JavaScript developers who work with Backbone.js and want to learn the best design patterns to develop complex web applications. Basic knowledge of Backbone.js and JavaScript is essential.

React Qui ckl y Azat Mardan 2017-08-20

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 Contens 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

JavaScript Web Applications - Alex MacCaw 2011-08-11

Building rich JavaScript applications that bring a desktop experience to the Web requires moving state from the server to the client side—not a simple task. This hands-on book takes proficient JavaScript developers through all the steps necessary to create state-of-the-art applications, including structure, templating, frameworks, communicating with the server, and many other issues. Throughout the book, you'll work with real-world example applications to help you grasp the concepts involved. Learn how to create JavaScript applications that offer a more responsive and improved experience. Use the Model-View-Controller (MVC) pattern, and learn how to manage dependencies inside your application Get an introduction to templating and data binding Learn about loading remote data, Ajax, and cross-domain requests Create realtime applications with WebSockets and Node.js Accept dropped files and upload data with progress indicators Use major frameworks and libraries, including jQuery, Spine, and Backbone Write tests and use the console to debug your applications Get deployment best practices, such as caching and minification

JavaScript and Node Fundamentals Azat Mardan 2014-05-29

1 JavaScript FUNdamentals: The Powerful and Misunderstood Language of The Web 1.1 Expressiveness 1.2 Loose Typing 1.3 Object Literal Notation 1.4 Functions 1.5 Arrays 1.6 Prototypal Nature 1.7 Conventions 1.8 No Modules 1.9 Immediately-Invoked Function Expressions (IIFEs) 1.10 Keyword "this" 1.11 Pitfalls 1.12 Further Learning 2 CoffeeScript FUNdamentals: The Better JavaScript 2.1 Semicolons, Whitespace and Parentheses 2.2 Vars 2.3 Conditions 2.4 Functions 2.5 Classes 2.6 Arrays and Slicing 2.7 Splats 2.8 Comprehensions 2.9 Conclusion 3 Backbone.js FUNdamentals: The Cornerstone of JavaScript MV* Frameworks 3.1 Typical Backbone.js App Structure 3.2 Setting up Backbone.js App from Scratch 3.3 Dependencies for the Backbone.js Project 3.4 Working with Backbone.js Collections 3.5 Event Binding with Backbone.js and jQuery 3.6 Backbone.js Views and Subviews with Underscore.js 3.7 Super Simple Backbone Starter Kit 3.8 Conclusion 4 Node.js FUNdamentals: JavaScript on The Server 4.1 Read-Eval-Print Loop (a.k.a. Console) in Node.js 4.2 Launching Node.js Scripts 4.3 Node.js Process Information 4.4 Accessing Global Scope in Node.js 4.5 Exporting and Importing Modules 4.6 Buffer is a Node.js Super Data Type 4.7 `__dirname` vs. `process.cwd` 4.8 Handy Utilities in Node.js 4.9 Reading and Writing from/to The File System in Node.js 4.10 Streaming Data in Node.js 4.11 Installing Node.js Modules with NPM 4.12 Hello World Server with HTTP Node.js Module 4.13 Debugging Node.js Programs 4.14 Taming Callbacks in Node.js 4.15 Introduction to Node.js with Ryan Dahl 4.16 Moving Forward with Express.js 5 Express.js FUNdamentals: The Most Popular Node.js Framework 5.1 Express.js Installation 5.2 Express.js Command-Line Interface 5.3 Routes in Express.js 5.4 Middleware as The Backbone of Express.js 5.5 Configuration of an Express.js App 5.6 Jade is Haml for Express.js/Node.js 5.7 Conclusion About The Express.js Framework 5.8 Update 6 About the Author 6.1 Errata 6.2 Contact Us

Get Programming with Node.js - Jonathan Wexler 2019-02-11

Summary Get Programming with Node.js teaches you to build web servers using JavaScript and Node. In this engaging tutorial, you'll work through eight complete projects, from writing the code for your first web server to adding live chat to a web app. Your hands will stay on the keyboard as you explore the most important aspects of the Node development process, including security, database management, authenticating user accounts, and deploying to production. You'll especially appreciate the easy-to-follow discussions, illuminating diagrams, and carefully explained code! Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Node.js delivers the speed and reliability you need for ecommerce, social media, and gaming applications. It comes with thousands of prebuilt packages to help you get started immediately. If you want to use JavaScript on the

server, Node.js is your choice. What's inside New features from ES2015 and later Writing asynchronous code Creating data models Debugging JavaScript modules About the Reader Written for front-end web developers with intermediate JavaScript skills. Table of Contents GETTING SET UP Lesson 0 - Setting up Node.js and the JavaScript engine Lesson 1 - Configuring your environment Lesson 2 - Running a Node.js application UNIT 1 - GETTING STARTED WITH NODE.JS Lesson 3 - Creating a Node.js module Lesson 4 - Building a simple web server in Node.js Lesson 5 - Handling incoming data Lesson 6 - Writing better routes and serving external files Lesson 7 - Capstone: Creating your first web application UNIT 2 - EASIER WEB DEVELOPMENT WITH EXPRESS.JS Lesson 8 - Setting up an app with Express.js Lesson 9 - Routing in Express.js Lesson 10 - Connecting views with templates Lesson 11 - Configurations and error handling Lesson 12 - Capstone: Enhancing the Confetti Cuisine site with Express.js UNIT 3 - CONNECTING TO A DATABASE Lesson 13 - Setting up a MongoDB database Lesson 14 - Building models with Mongoose Lesson 15 - Connecting controllers and models Using promises with Mongoose Lesson 16 - Capstone: Saving user subscriptions UNIT 4 - BUILDING A USER MODEL Lesson 17 - Improving your data models Lesson 18 - Building the user model Lesson 19 - Creating and reading your models Lesson 20 - Updating and deleting your models Lesson 21 - Capstone: Adding CRUD models to Confetti Cuisine Creating controllers UNIT 5 - AUTHENTICATING USER ACCOUNTS Lesson 22 - Adding sessions and flash messages Lesson 23 - Building a user login and hashing passwords Lesson 24 - Adding user authentication Lesson 25 - Capstone: Adding user authentication to Confetti Cuisine UNIT 6 - BUILDING AN API Lesson 26 - Adding an API to your application Lesson 27 - Accessing your API from your application Lesson 28 - Adding API security Lesson 29 - Capstone: Implementing an API UNIT 7 - ADDING CHAT FUNCTIONALITY Lesson 30 - Working with Socket.io Lesson 31 - Saving chat messages Lesson 32 - Adding a chat notification indicator UNIT 8 - DEPLOYING AND MANAGING CODE IN PRODUCTION Lesson 33 - Capstone: Adding a chat feature to Confetti Cuisine Lesson 34 - Deploying your application Lesson 35 - Managing in production Lesson 36 - Testing your application Lesson 37 - Capstone: Deploying Confetti Cuisine Node.js 8 the Right Way - Jim Wilson 2018-01-04

Node.js is the platform of choice for creating modern web services. This fast-paced book gets you up to speed on server-side programming with Node.js 8, as you develop real programs that are small, fast, low-profile, and useful. Take JavaScript beyond the browser, explore dynamic language features, and embrace evented programming. Harness the power of the event loop and non-blocking I/O to create highly parallel microservices and applications. This expanded and updated second edition showcases the latest ECMAScript features, current best practices, and modern development techniques. JavaScript is the backbone of the modern web, powering nearly every web app's user interface. Node.js is JavaScript for the server. This greatly expanded second edition introduces new language features while dramatically increasing coverage of core topics. Each hands-on chapter offers progressively more challenging topics and techniques, broadening your skill set and enabling you to think in Node.js. Write asynchronous, non-blocking code using Node.js's style and patterns. Cluster and load balance services with Node.js core features and third-party tools. Harness the power of databases such as Elasticsearch and Redis. Work with many protocols, create RESTful web services, TCP socket clients and servers, and more. Test your code's functionality with Mocha, and manage its life cycle with npm. Discover how Node.js pairs a server-side event loop with a JavaScript runtime to produce screaming fast, non-blocking concurrency. Through a series of practical programming domains, use the latest available ECMAScript features and harness key Node.js classes and popular modules. Create rich command-line tools and a web-based UI using modern web development techniques. Join the smart and diverse community that's rapidly advancing the state of the art in JavaScript development. What You Need: Node.js 8.x Operating system with bash-like shell OMQ (pronounced "Zero-M-Q") library, version 3.2 or higher Elasticsearch version 5.0 or higher jq version 1.5 or higher Redis version 3.2 or higher

Rapid Prototyping with JS - Azat Mardan 2014-05-28

Rapid Prototyping with JS: Agile JavaScript Development is a hands-on book which introduces you to agile JavaScript web and mobile software development using the latest cutting-edge front-end and back-end technologies including: Node.js, Backbone.js, MongoDB and others. More information at <http://rpjs.co>. This book was borne out of frustration. I have been in software engineering for many years, and when I started

learning Node.js and Backbone.js, I learned the hard way that their official documentation and the Internet lack in quick start guides and examples. Needless to say, it was virtually impossible to find all of the tutorials for JS-related modern technologies in one place. The best way to learn is to do, right? Therefore, I've used the approach of small simple examples, i.e., quick start guides, to expose myself to the new cool tech. After I was done with the basic apps, I needed some references and organization. I started to write this manual mostly for myself, so I can understand the concepts better and refer to the samples later. Then StartupMonthly and I taught a few 2-day intensive classes on the same subject -- helping experienced developers to jump-start their careers with agile JavaScript development. The manual we used was updated and iterated many times based on the feedback received. The end result is this book. What to Expect A typical reader of RPJS should expect a collection of quick start guides, tutorials and suggestions (e.g., Git workflow). There is a lot of coding and not much theory. All the theory we cover is directly related to some of the practical aspects, and essential for better understanding of technologies and specific approaches in dealing with them, e.g., JSONP and cross-domain calls. In addition to coding examples, the book covers virtually all setup and deployment step-by-step. You'll learn on the examples of Chat web/mobile applications starting with front-end components. There are a few versions of these applications, but by the end we'll put front-end and back-end together and deploy to the production environment. The Chat application contains all of the necessary components typical for a basic web app, and will give you enough confidence to continue developing on your own, apply for a job/promotion or build a startup! Who This Book is For The book is designed for advanced-beginner and intermediate-level web and mobile developers: somebody who has been (or still is) an expert in other languages like Ruby on Rails, PHP, Perl, Python or/and Java. The type of a developer who wants to learn more about JavaScript and Node.js related techniques for building web and mobile application prototypes fast. Our target user doesn't have time to dig through voluminous (or tiny, at the other extreme) official documentation. The goal of Rapid Prototyping with JS is not to make an expert out of a reader, but to help him/her to start building apps as soon as possible. Rapid Prototyping with JS: Agile JavaScript Development, as you can tell from the name, is about taking your idea to a functional prototype in the form of a web or a mobile application as fast as possible. This thinking adheres to the Lean Startup30 methodology; therefore, this book would be more valuable to startup founders, but big companies' employees might also find it useful, especially if they plan to add new skills to their resumes. What This Book is Not Rapid Prototyping with JS is neither a comprehensive book on several frameworks, libraries or technologies (or just a particular one), nor a reference for all the tips and tricks of web development. Examples similar to ones in this book might be publicly available online. Even more so, if you're not familiar with fundamental programming concepts like loops, if/else statements, arrays, hashes, object and functions, you won't find them in Rapid Prototyping with JS.

New Perspectives on Web Design - Vitaly Friedman 2013

The book is focused around practical techniques, strategies and approaches. Will feature valuable insights into large-scale projects, adaptive interfaces, customer support, user psychology and typography. Will also uncover smart front-end strategies, obscure back-end techniques and find out what it takes to improve website performance for faster and more robust apps.

Learning Single-page Web Application Development - Fernando Monteiro 2014-12-24

This book is aimed at web developers who are familiar with frontend technologies like JavaScript, HTML, and CSS, and modern tools like Bower, Yeoman, and Grunt.

Lightweight Django - Julia Elman 2014-11-03

How can you take advantage of the Django framework to integrate complex client-side interactions and real-time features into your web applications? Through a series of rapid application development projects, this hands-on book shows experienced Django developers how to include REST APIs, WebSockets, and client-side MVC frameworks such as Backbone.js into new or existing projects. Learn how to make the most of Django's decoupled design by choosing the components you need to build the lightweight applications you want. Once you finish this book, you'll know how to build single-page applications that respond to interactions in real time. If you're familiar with Python and JavaScript, you're good to go. Learn a lightweight approach for starting a new Django project Break reusable applications into smaller services that communicate with one another Create a static, rapid prototyping site as a scaffold for websites and

applications Build a REST API with django-rest-framework Learn how to use Django with the Backbone.js MVC framework Create a single-page web application on top of your REST API Integrate real-time features with WebSockets and the Tornado networking library Use the book's code-driven examples in your own projects

Developing Backbone.js Applications - Addy Osmani 2013-05-10

If you want to build your site's frontend with the single-page application (SPA) model, this hands-on book shows you how to get the job done with Backbone.js. You'll learn how to create structured JavaScript applications, using Backbone's own flavor of model-view-controller (MVC) architecture. Start with the basics of MVC, SPA, and Backbone, then get your hands dirty building sample applications—a simple Todo list app, a RESTful book library app, and a modular app with Backbone and RequireJS. Author Addy Osmani, an engineer for Google's Chrome team, also demonstrates advanced uses of the framework. Learn how Backbone.js brings MVC benefits to the client-side Write code that can be easily read, structured, and extended Work with the Backbone.Marionette and Thorax extension frameworks Solve common problems you'll encounter when using Backbone.js Organize your code into modules with AMD and RequireJS Paginate data for your Collections with the Backbone.Paginator plugin Bootstrap a new Backbone.js application with boilerplate code Use Backbone with jQuery Mobile and resolve routing problems between the two Unit-test your Backbone apps with Jasmine, QUnit, and SinonJS

Mistering JavaScript Single Page Application Development - Philip Klauzinski 2016-10-28

An in-depth guide to exploring the design, architecture, and techniques behind building sophisticated, scalable, and maintainable single-page applications in JavaScript About This Book Build large-scale, feature-complete SPAs by leveraging widely used tools and techniques. Gain a solid understanding of architecture and SPA design to build applications using the library or framework of your choice. Explore the various facets of SPA development to build web apps that are fast, scalable, and easy to test. Who This Book Is For This book is ideal for JavaScript developers who want to build complex single-page applications in JavaScript. Some basic understanding of SPA concepts will be helpful but not essential. What You Will Learn Organize your development environment using the command line with NPM, Bower, and Grunt. Choose an accurate design pattern for your app Understand modular JavaScript programming and Node.js Interact with a REST API using JavaScript and AJAX with practical examples Build a single page application using the MEAN stack Connect your app across popular social media platforms such as Facebook, Twitter, and LinkedIn Test your app, both on the server side and in views Prepare your app for the real world and deploy it to Heroku In Detail Single-page web applications—or SPAs, as they are commonly referred to—are quickly becoming the de facto standard for web app development. The fact that a major part of the app runs inside a single web page makes it very interesting and appealing. Also, the accelerated growth of browser capabilities is pushing us closer to the day when all apps will run entirely in the browser. This book will take your JavaScript development skills to the next level by teaching you to create a single-page application within a full-stack JavaScript environment. Using only JavaScript, you can go from being a front-end developer to a full-stack application developer with relative ease. You will learn to cross the boundary from front-end development to server-side development through the use of JavaScript on both ends. Use your existing knowledge of JavaScript by learning to manage a JSON document data store with MongoDB, writing a JavaScript powered REST API with Node.js and Express, and designing a front-end powered by AngularJS. This book will teach you to leverage the MEAN stack to do everything from document database design, routing REST web API requests, data-binding within views, and adding authentication and security to building a full-fledged, complex, single-page web application. In addition to building a full-stack JavaScript app, you will learn to test it with JavaScript-powered testing tools such as Mocha, Karma, and Jasmine. Finally, you will learn about deployment and scaling so that you can launch your own apps into the real world. Style and approach Following a structured approach, this book helps readers gain expertise in SPA development. Its thorough coverage of SPA architecture and design, along with practical use cases, provides readers with a clear path to building applications with the library of their choice. For readers who are afraid to take the plunge straightaway, the book also offers step-by-step guidance on developing a complex web app.

Mobile JavaScript Application Development - Adrian Kosmaczewski 2012

JavaScript has become a key language for mobile web development, with support from a number of competing frameworks. Developers will learn how to create mobile applications using jQuery Mobile and SenchaTouch, how to choose between these frameworks, how to compile applications for distribution in app stores, and best practices for making

Developing Backbone.js Applications : Building Better JavaScript Applications - Addy Osmani 2013

Beginning Backbone.js - James Sugrue 2014-01-23

Beginning Backbone.js is your step-by-step guide to learning and using the Backbone.js library in your web projects. Backbone.js is one of the most popular JavaScript libraries among web developers, used to create modular, single-page web apps. This book takes you from downloading Backbone.js and its dependencies all the way to using more advanced libraries to structure your application architecture, and everything in between. With a real-world, practical approach, you will learn how you can integrate Backbone.js into the center of your JavaScript stack, and create scalable applications. James Sugrue shows you how to implement all aspects of templating, work efficiently with RequireJS, and fully understand Grunt and all its plug-ins. Armed with this knowledge you'll be able to architect a continuous integration system that is key to real-world applications. With the explosion of JavaScript-based applications on the web, the need for more structured approaches to code management is more important than ever. Backbone.js helps create applications that separate models from views, enabling developers to avoid spaghetti code. Beginning Backbone.js will gently guide you into this amazingly powerful library, and help you ramp up to building professional applications. Integrate Backbone.js into your work today with this indispensable book.

Express Web Application Development Hage Yaapa 2013-01-01

Express Web Application Development is a practical introduction to learning about Express. Each chapter introduces you to a different area of Express, using screenshots and examples to get you up and running as quickly as possible. If you are looking to use Express to build your next web application, "Express Web Application Development" will help you get started and take you right through to Express' advanced features. You will need to have an intermediate knowledge of JavaScript to get the most out of this book.

Programming JavaScript Applications - Eric Elliott 2014-06-26

Take advantage of JavaScript's power to build robust web-scale or enterprise applications that are easy to extend and maintain. By applying the design patterns outlined in this practical book, experienced JavaScript developers will learn how to write flexible and resilient code that's easier—yes, easier—to work with as your code base grows. JavaScript may be the most essential web programming language, but in the real world, JavaScript applications often break when you make changes. With this book, author Eric Elliott shows you how to add client- and server-side features to a large JavaScript application without negatively affecting the rest of your code. Examine the anatomy of a large-scale JavaScript application Build modern web apps with the capabilities of desktop applications Learn best practices for code organization, modularity, and reuse Separate your application into different layers of responsibility Build efficient, self-describing hypermedia APIs with Node.js Test, integrate, and deploy software updates in rapid cycles Control resource access with user authentication and authorization Expand your application's reach through internationalization

Node.js in Action - Tim Oxley 2017-08-16

Summary Node.js in Action, Second Edition is a thoroughly revised book based on the best-selling first edition. It starts at square one and guides you through all the features, techniques, and concepts you'll need to build production-quality Node applications. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology You already know JavaScript. The trick to mastering Node.js is learning how to build applications that fully exploit its powerful asynchronous event handling and non-blocking I/O features. The Node server radically simplifies event-driven real-time apps like chat, games, and live data analytics, and with its incredibly rich ecosystem of modules, tools, and libraries, it's hard to beat! About the Book Based on the bestselling first edition, Node.js in Action, Second Edition is a completely new book. Packed with practical examples, it teaches you how to create high-performance web servers using JavaScript and Node. You'll master key design concepts such as asynchronous programming, state management, and event-driven programming. And you'll learn to

put together MVC servers using Express and Connect, design web APIs, and set up the perfect production environment to build, lint, and test. What's Inside Mastering non-blocking I/O The Node event loop Testing and deploying Web application templating About the Reader Written for web developers with intermediate JavaScript skills. About the Authors The Second Edition author team includes Node masters Alex Young, Bradley Meck, Mike Cantelon, and Tim Oxley, along with original authors Marc Harter, T.J. Holowaychuk, and Nathan Rajlich. Table of contents PART 1 - WELCOME TO NODE Welcome to Node.js Node programming fundamentals What is a Node web application? PART 2 - WEB DEVELOPMENT WITH NODE Front-end build systems Server-side frameworks Connect and Express in depth Web application templating Storing application data Testing Node applications Deploying Node applications and maintaining uptime PART 3 - BEYOND WEB DEVELOPMENT Writing command-line applications Conquering the desktop with Electron

Learning AngularJS - Ken Williamson 2015-03-18

With AngularJS, you can quickly build client-side applications that run well on any desktop or mobile platform, using REST web services for backend processes. You may have heard that the learning curve for this JavaScript MVC framework is too steep, but that's not the case. This practical guide provides a hands-on approach to learning AngularJS that will have you building high-quality applications and websites in no time. Along with a conceptual understanding of the framework, you'll also gain direct experience with AngularJS by building a sample application throughout the book. If you're familiar with JavaScript, web development, and software design concepts and patterns, this book is the perfect way to get started. Understand how AngularJS differs from other MVC frameworks Learn about AngularJS controllers, views, and models by diving into the book's sample project Connect your working application to public REST services Build the application's security layer with non-REST AngularJS services Explore the basics of building and testing AngularJS directives Use AngularJS as part of the MEAN stack (MongoDB, ExpressJS, AngularJS, and Node.js) Discover how search engine optimization relates to AngularJS applications and sites

Cross-platform Desktop Application Development: Electron, Node, NW.js, and React - Dmitry Sheiko 2017-07-27

Build powerful cross-platform desktop applications with web technologies such as Node, NW.js, Electron, and React About This Book Build different cross-platform HTML5 desktop applications right from planning, designing, and deployment to enhancement, testing, and delivery Forget the pain of cross-platform compatibility and build efficient apps that can be easily deployed on different platforms. Build simple to advanced HTML5 desktop apps, by integrating them with other popular frameworks and libraries such as Electron, Node.js, Nw.js, React, Redux, and TypeScript Who This Book Is For This book has been written for developers interested in creating desktop applications with HTML5. The first part requires essential web-master skills (HTML, CSS, and JavaScript). The second demands minimal experience with React. And finally for the third it would be helpful to have a basic knowledge of React, Redux, and TypeScript. What You Will Learn Plan, design, and develop different cross-platform desktop apps Application architecture with React and local state Application architecture with React and Redux store Code design with TypeScript interfaces and specialized types CSS and component libraries such as Photonkit, Material UI, and React MDL HTML5 APIs such as desktop notifications, WebSockets, WebRTC, and others Desktop environment integration APIs of NW.js and Electron Package and distribute for NW.js and Electron In Detail Building and maintaining cross-platform desktop applications with native languages isn't a trivial task. Since it's hard to simulate on a foreign platform, packaging and distribution can be quite platform-specific and testing cross-platform apps is pretty complicated. In such scenarios, web technologies such as HTML5 and JavaScript can be your lifesaver. HTML5 desktop applications can be distributed across different platforms (Window, MacOS, and Linux) without any modifications to the code. The book starts with a walk-through on building a simple file explorer from scratch powered by NW.js. So you will practice the most exciting features of bleeding edge CSS and JavaScript. In addition you will learn to use the desktop environment integration API, source code protection, packaging, and auto-updating with NW.js. As the second application you will build a chat-system example implemented with Electron and React. While developing the chat app, you will get Photonkit. Next, you will create a screen capturer with NW.js, React,

and Redux. Finally, you will examine an RSS-reader built with TypeScript, React, Redux, and Electron. Generic UI components will be reused from the React MDL library. By the end of the book, you will have built four desktop apps. You will have covered everything from planning, designing, and development to the enhancement, testing, and delivery of these apps. Style and approach Filled with real world examples, this book teaches you to build cross-platform desktop apps right from scratch using a step-by-step approach.

DOM Enlightenment - Cody Lindley 2013-02-08

With DOM Enlightenment, you'll learn how to manipulate HTML more efficiently by scripting the Document Object Model (DOM) without a DOM library. Using code examples in cookbook style, author Cody Lindley (jQuery Cookbook) walks you through modern DOM concepts to demonstrate how various node objects work. Over the past decade, developers have buried the DOM under frameworks that simplify its use. This book brings these tools back into focus, using concepts and code native to modern browsers. If you have JavaScript experience, you'll understand the role jQuery plays in DOM scripting, and learn how to use the DOM directly in applications for mobile devices and specific browsers that require low overhead.

Understand JavaScript node objects and their relationship to the DOM Learn the properties and methods of document, element, text, and DocumentFragment objects Delve into element node selecting, geometry, and inline styles Add CSS style sheets to an HTML document and use CSSStyleRule objects Set up DOM events by using different code patterns Learn the author's vision for dom.js, a jQuery-inspired DOM Library for modern browsers

jQuery Fundamentals - Rebecca Murphey

Full Stack JavaScript - Azat Mardan 2015-12-30

This is a hands-on book which introduces you to agile JavaScript web and mobile software development using the latest cutting-edge front-end and back-end technologies including: Node.js, MongoDB, Backbone.js, Parse.com, Heroku and Windows Azure. Practical examples include building multiple versions of the Chat app: •jQuery + Parse.com JS REST API •Backbone and Parse.com JS SDK •Backbone and Node.js •Backbone and Node.js + MongoDB The Chat application has all the foundation of a typical web/mobile application: fetching data, displaying it, submitting new data. Other examples in the book are as follows: •jQuery + Twitter RESP API "Tweet Analyzer" •Parse.com "Save John" •MongoDB "Print Collections" •Backbone.js "Apple Database" •Monk + Express.js "REST API Server" This book will save you many hours by providing a hand-picked and tested collection of quick start guides. RPJS has practical examples that allow to spend less time learning and more time building your own applications. Prototype fast and ship code that matters! What You will Learn: You should expect a basic understanding from a collection of quick start guides, tutorials and suggestions for the development apps discussed in this book. In addition to coding examples, the book covers virtually all setup and deployment step-by-step. You'll learn from the examples of Chat web/mobile applications starting with front-end components and by the end we'll put front-end and back-end together and deploy to the production environment. Who This Book is For: The typical programmer who wants to learn more about effective JavaScript coding.

Building Web Apps with Ember.js - Jesse Cravens 2014-07-09

If you're a web developer interested in building scalable single-page applications—full-stack, browser-based apps that connect to a backend—this practical guide shows you how to use Ember.js, the popular JavaScript framework based on the model-view-controller (MVC) architectural pattern. Through the course of the book, you'll learn how to build a prototype Ember application (a musician index called Rock'n'Roll Call), using routers, templates, models, controllers, and views. You'll also understand how Ember's convention over configuration approach helps you persist data, build backend technologies, and create widgets for developing production-capable applications that behave like desktop software. Set up workflow management and boilerplate code creation Learn how Ember's "developer ergonomics" help you use less code Write templates for the book's prototype with Handlebars.js Use routers to manage application states without reloading the page Connect controllers and views with events, and sync data with data-binding Build an Ember backend with a RESTful API or Ruby on Rails Use the Ember-Data library to persist data and talk to the backend Write reusable encapsulated widgets to extend your applications

Async JavaScript Trevor Burnham 2012-11-28

With the advent of HTML5, front-end MVC, and Node.js, JavaScript is ubiquitous--and still messy. This book will give you a solid foundation for managing async tasks without losing your sanity in a tangle of callbacks. It's a fast-paced guide to the most essential techniques for dealing with async behavior, including PubSub, evented models, and Promises. With these tricks up your sleeve, you'll be better prepared to manage the complexity of large web apps and deliver responsive code. With Async JavaScript, you'll develop a deeper understanding of the JavaScript language. You'll start with a ground-up primer on the JavaScript event model--key to avoiding many of the most common mistakes JavaScripters make. From there you'll see tools and design patterns for turning that conceptual understanding into practical code. The concepts in the book are illustrated with runnable examples drawn from both the browser and the Node.js server framework, incorporating complementary libraries including jQuery, Backbone.js, and Async.js. You'll learn how to create dynamic web pages and highly concurrent servers by mastering the art of distributing events to where they need to be handled, rather than nesting callbacks within callbacks within callbacks. Async JavaScript will get you up and running with real web development quickly. By the time you've finished the Promises chapter, you'll be parallelizing Ajax requests or running animations in sequence. By the end of the book, you'll even know how to leverage Web Workers and AMD for JavaScript applications with cutting-edge performance. Most importantly, you'll have the knowledge you need to write async code with confidence. What You Need: Basic knowledge of JavaScript is recommended. If you feel that you're not up to speed, see the "Resources for Learning JavaScript" section in the preface.

Backbone.js Testing - Ryan Roemer 2013-01-01

This book is packed with the step by step tutorial and instructions in recipe format helping you setup test infrastructure and gradually advance your skills to plan, develop, and test your backbone applications.If you are a JavaScript developer looking for recipes to create and implement test support for your backbone application, then this book is ideal for you.

Learning Web App Development - Semmy Purewal 2014-02-13

Grasp the fundamentals of web application development by building a simple database-backed app from scratch, using HTML, JavaScript, and other open source tools. Through hands-on tutorials, this practical guide shows inexperienced web app developers how to create a user interface, write a server, build client-server communication, and use a cloud-based service to deploy the application. Each chapter includes practice problems, full examples, and mental models of the development workflow. Ideal for a college-level course, this book helps you get started with web app development by providing you with a solid grounding in the process. Set up a basic workflow with a text editor, version control system, and web browser Structure a user interface with HTML, and include styles with CSS Use JQuery and JavaScript to add interactivity to your application Link the client to the server with AJAX, JavaScript objects, and JSON Learn the basics of server-side programming with Node.js Store data outside your application with Redis and MongoDB Share your application by uploading it to the cloud with CloudFoundry Get basic tips for writing maintainable code on both client and server

Web Development with Node and Express - Ethan Brown 2014-07

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.

CoffeeScript Application Development - Ian Young 2013-01-01

CoffeeScript Application Development is a practical, hands-on guide with step-by-step instructions. Follow the smooth and easy tutorial approach, covering examples that build in complexity. By the final chapter you'll be wondering why you didn't try CoffeeScript sooner. If you are a JavaScript developer who wants to save time and add power to your code, then this is the book that will help you do it. With minimal fuss you will learn a whole new language which will reduce your application development time from weeks to days.

Full Stack Web Development with Backbone.js - Patrick Mulder 2014-06-10

Learn how to build a full-stack application with Backbone.js by taking advantage of JavaScript modules, workflow automation, and Backbone's interface building blocks. With this practical guide, author Patrick Mulder takes experienced backend developers and JavaScript programmers through the steps necessary to

create a fully functional single-page application. Backbone's rich ecosystem of plugins makes applications easier to design and scale, but knowing which tools to use for your project can be tricky. How do you combine views and the data layer with Backbone, or serve and deploy JavaScript assets? You'll not only learn the answers to these and many other questions; you'll also discover Backbone's vast number of use cases. Get started quickly by using a Backbone.js and Browserify Track state and organize data with Backbone models and collections Capture events from users by using views and manipulating the DOM Combine Backbone views with advanced HTML templates Use Backbone to browse remote data sources from an API Authenticate and authorize client-side interactions Build a backend API with Node.js and Restify Set up workflow automation with Bower, Grunt, Yeoman, and RequireJS