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Eloquent JavaScript, 2nd Ed. Packt Publishing Ltd

This text offers a brief introductory level overview of the JavaScript programming language that is now an important aspect of every programmer's toolbox.

Smashing Node.js Addison-Wesley

With modern tools, it is possible to create a production grade, full-stack application using HTML, CSS, and JavaScript alone. The combination of MongoDB, Express, AngularJS, and Node.js has become so popular that it has earned the title MEAN stack -- the subject of this book. This book explores the MEAN stack in detail. We will begin by covering Node.js, as it will lay the groundwork for all of our server-side work. You will learn how to get Node running on your local machine as well as download modules using npm. The key aspects of the Node.js programming model will also be covered. From there, we will move on to MongoDB, where you'll learn how to interact with Mongo from a Node application. You will also learn how to create, retrieve, update, and delete data from a Mongo store. After you have a solid grasp on Node and Mongo, the book will move on to the Express web server. We'll cover the basics of Express applications via topics like routes and middleware. Building on previous chapters, we will cover the integration of Node, Mongo, and Express. Our coverage of the MEAN stack will wrap up with several chapters on AngularJS. These chapters will cover Angular fundamentals like data binding, directives, controllers, routing, and services. In an effort to explore competing technologies, a slight introduction to Ember.js will also be provided. Full stack JavaScript is not fully encompassed by the MEAN stack. There is an entire ecosystem of JavaScript tools to learn about, and this book will introduce a few of them. We will cover task runners Gulp.js and Grunt.js which are extremely useful for automating mundane, repetitive

tasks. We'll also cover JSHint, a linting tool used to improve code quality. Linting tools analyze source code and report potentials issues - a feature that is especially useful in non-compiled languages like JavaScript.

JavaScript: The Good Parts Apress

Why reinvent the wheel every time you run into a problem with JavaScript? This cookbook is chock-full of code recipes for common programming tasks, along with techniques for building apps that work in any browser. You'll get adaptable code samples that you can add to almost any project--and you'll learn more about JavaScript in the process. The recipes in this book take advantage of the latest features in ECMAScript 2020 and beyond and use modern JavaScript coding standards. You'll learn how to: Set up a productive development environment with a code editor, linter, and test server Work with JavaScript data types, such as strings, arrays, and BigInts Improve your understanding of JavaScript functions, including arrow functions, closures, and generators Apply object-oriented programming concepts like classes and inheritance Work with rich media in JavaScript, including audio, video, and SVGs Manipulate HTML markup and CSS styles Use JavaScript anywhere with Node.js Access and manipulate remote data with REST, GraphQL, and Fetch Get started with the popular Express application-building framework Perform asynchronous operations with Promises, async/await, and web workers

HTML5 Game Programming with enchant.js No Starch Press

An example-driven guide covering modern web app development techniques and emerging technologies such as WebAssembly, Service Workers, and Svelte.js to build faster, secure, and scalable apps Key FeaturesDiscover effective techniques for accessing DOM, minimizing painting, and using a V8 engine to optimize JavaScriptUnderstand what makes the web tick and create apps that look and feel like native desktop applicationsExplore modern JavaScript frameworks like Svelte.js for building next-gen web appsBook Description High-performance web development is all about cutting through the complexities in different layers of a web app and building services and APIs that improve the speed and performance of your apps on the browser. With emerging web technologies, building scalable websites and sustainable web apps is smoother than ever. This book starts by taking you through the web frontend, popular web development practices, and the latest version of ES and JavaScript. You'll work with Node.js and learn how to build web apps without a framework. The book consists of three hands-on examples that help you understand JavaScript applications at both the server-side and the client-side using Node.js and Svelte.js. Each chapter covers modern techniques such as DOM manipulation and V8 engine optimization to strengthen your understanding of the web. Finally, you ' ll delve into advanced topics such as CI/CD and how you can harness their capabilities to speed up your web development dramatically. By the end of this web development book, you'll have understood how the JavaScript landscape has evolved, not just for the frontend but also for the backend, and be ready to use new tools and techniques to solve common web problems. What you will learnExplore Vanilla JavaScript for optimizing the DOM, classes, and modules, and querying with jQueryUnderstand immutable and mutable code and develop faster web appsDelve into Svelte.js and use it to build a complete real-time Todo appBuild apps to work offline by caching calls using service workersWrite C++ native code and call the WebAssembly module with JavaScript to run it on a browserImplement CircleCI for continuous integration in deploying your web appsWho this book is for This JavaScript book is for web developers, C/C++ programmers, and anyone who wants to build robust web applications using advanced web technologies. This book assumes a good grasp of Vanilla JavaScript and an understanding of web development tools, such as Chrome Developer tools or Mozilla ' s developer tools.

Test-Driven JavaScript Development "O'Reilly Media, Inc."

If you are new to both JavaScript and programming, this hands-on book is for you. Rather than staring blankly at gobbledygook, you'll explore JavaScript by entering and running hundreds of code samples in Firebug, a free JavaScript debugger. Then in the last two chapters, you'll leave the safety of Firebug and hand-code an uber cool JavaScript application in your preferred text editor. Written in a friendly, engaging narrative style, this innovative JavaScript tutorial covers the following essentials: Core JavaScript syntax, such as value types, operators, expressions, and statements provided by ECMAScript. Features for manipulating XHTML, CSS, and events provided by DOM. Object-oriented JavaScript, including prototypal and classical inheritance, deep copy, and mixins. Closure, lazy loading, advance conditional loading, chaining, currying, memoization, modules, callbacks, recursion, and other powerful function techniques. Encoding data with JSON or XML. Remote scripting with JSON-P or XMLHttpRequest Drag-and-drop, animated scrollers, skin swappers, and other cool behaviors. Optimizations to ensure your scripts run snappy. Formatting and naming conventions to prevent you from looking like a greenhorn. New ECMAScript 5, DOM 3, and HTML 5 features such as Object.create(), Function.prototype.bind(), strict mode, querySelector(), querySelectorAll(), and getElementsByClassName(). As you can see, due to its fresh approach, this book is by no means watered down. Therefore, over the course of your journey, you will go from JavaScript beginner to wizard, acquiring the skills recruiters desire.

JavaScript for Programmers Packt Publishing Ltd

JavaScript Creativity teaches you how to use every feature of this versatile and powerful language in exciting and creative ways. JavaScript can be used for so much more than simple interactivity. Master your use of canvas, animation, audio and video, 3D visualizations, motion detection and real-time collaboration. In every chapter of this book you will learn how to use and evolve JavaScript's creative capabilities in your own projects, as well as having project examples to follow throughout. Specifically, you will learn how to: Expertly use canvas and animation Push audio and video to their full capabilities Code and manipulate advanced 3D visualizations Create your own music directly from the browser Implement real-time collaboration with Node.js Explore real-time audio and video with WebRTC Play with motion detection and gesture control Combine all features into one social music creation experiment, similar to Google's 'Jam with Chrome'

JavaScript Creativity is for the developer who has a working knowledge of JavaScript and wants to take their code to the next level. Every feature explored can be manipulated and implemented in your everyday projects to really impress your clients or just increase your code skill. This book is an exciting, action-packed introduction to all the advanced and truly creative aspects of this language - start creative coding today!

JavaScript Creativity Apress

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

How To Code in Node.js John Wiley & Sons

With *Pro JavaScript Design Patterns*, you'll start with the basics of object-oriented programming in JavaScript applicable to design patterns, including making JavaScript more expressive, inheritance, encapsulation, information hiding, and more. The book then details how to implement and take advantage of several design patterns in JavaScript. Each chapter is packed with real-world examples of how the design patterns are best used and expert advice on writing better code, as well as what to watch out for. Along the way you'll discover how to create your own libraries and APIs for even more efficient coding.

Pro JavaScript Design Patterns "O'Reilly Media, Inc."

Get to the forefront of server-side JavaScript programming by writing compact, robust, fast, networked Node applications that scale. Ready to take JavaScript beyond the browser, explore dynamic languages features and embrace evented programming? Explore the fun, growing repository of Node modules provided by npm. Work with multiple protocols, load-balanced RESTful web services, express, OMQ, Redis, CouchDB, and more. Develop production-grade Node applications fast. JavaScript is the backbone of the modern web, powering nearly every web app's user interface. Node.js is JavaScript for the server. This book shows you how to develop small, fast, low-profile, useful, networked applications. You'll write asynchronous, non-blocking code using Node's style and patterns. You'll cluster and load balance your services with Node core features and third-party tools. You'll work with many protocols, creating RESTful web services, TCP socket clients and servers, and more. This short book packs a hefty dose of Node.js. You'll test your code's functionality and performance under load. You'll learn important aspects of Node development--from its architecture and core, to its ecosystem of third-party modules. You'll discover how Node pairs a server-side event loop with a JavaScript runtime to produce screaming fast, non-blocking concurrency. Through a series of practical programming domains, you'll use the latest available ECMAScript Harmony features and harness key Node classes such as EventEmitter and Stream. Throughout the book, you'll develop real programs that are small, fast, low-profile, and useful. Get ready to join a smart community that's rapidly advancing the state of the art in web development. What You Need: Latest stable release of Node.js, this book was written with 0.12.x in mind. The OMQ (ZeroMQ) library, version 3.2 or higher.

JavaScript: The Definitive Guide Pearson Education

Leverage the features of TypeScript to boost your development skills and create captivating applications About This Book Learn how to develop modular, scalable, maintainable, and adaptable web applications by taking advantage of TypeScript Explore techniques to use TypeScript alongside other leading tools such as Angular 2, React, and Node.js Focusing on design patterns in TypeScript, this step-by-step guide demonstrates all the important design patterns in practice Who This Book Is For This Learning Path is for intermediate-level JavaScript developers who want to use TypeScript to build beautiful web applications and fun projects. No prior knowledge of TypeScript is required, but a basic understanding of jQuery is expected. This Learning Path is also for experienced TypeScript developers who want to take their skills to the next level, and also for web developers who wish to make the most of TypeScript. What You Will Learn Understand the key TypeScript language features and runtime Install and configure the necessary tools in order to start developing an application Create object-oriented code that adheres to the SOLID principles Develop robust applications with testing (Mocha, Chai, and SinonJS) Apply GoF patterns in an application with a testing approach Identify the challenges when developing an application Migrate JavaScript codebases to TypeScript to improve your workflow Utilize SystemJS and Webpack to load

scripts and their dependencies Develop high performance server-side applications to run within Node.js In Detail TypeScript is an open source and cross-platform typed superset of JavaScript that compiles to plain JavaScript that runs in any browser or any host. TypeScript adds optional static types, classes, and modules to JavaScript, to enable great tooling and better structuring of large JavaScript applications. Through this three-module learning path, you'll learn the ins-and-outs of TypeScript for building more robust software. The first module gets you started with TypeScript and helps you understand the basics of TypeScript and automation tools. Get a detailed description of function, generics, callbacks, and promises, and discover the object-oriented features and memory management functionality of TypeScript. The next module starts by explaining the current challenges when designing and developing an application and how you can solve these challenges by applying the correct design pattern and best practices. You will be introduced to low-level programming concepts to help you write TypeScript code, as well as working with software architecture, best practices, and design aspects. The final module will help you build a complete single page app with Angular 2, create a neat mobile app using NativeScript, and even build a Pac Man game with TypeScript. As if the fun wasn't enough, you'll also find out how to migrate your legacy codebase from JavaScript to TypeScript. By the end of this Learning Path, you will be able to take your skills up a notch and develop full-fledged web applications using the latest features of the TypeScript. This Learning Path combines some of the best that Packt has to offer in one complete, curated package. It includes content from the following Packt products: Learning TypeScript by Remo H. Jansen TypeScript Design Patterns by Vilic Vane TypeScript Blueprints by Ivo Gabe de Wolff Style and approach This is a step-by-step, practical guide covering the fundamentals of TypeScript with practical examples. The end-to-end projects included in this book will give you ready-to-implement solutions for your business scenario, showcasing the depth and robustness of TypeScript.

Full Stack JavaScript Apress

For JavaScript developers working on increasingly large and complex projects, effective automated testing is crucial to success. Test-Driven JavaScript Development is a complete, best-practice guide to agile JavaScript testing and quality assurance with the test-driven development (TDD) methodology. Leading agile JavaScript developer Christian Johansen covers all aspects of applying state-of-the-art automated testing in JavaScript environments, walking readers through the entire development lifecycle, from project launch to application deployment, and beyond. Using real-life examples driven by unit tests, Johansen shows how to use TDD to gain greater confidence in your code base, so you can fearlessly refactor and build more robust, maintainable, and reliable JavaScript code at lower cost. Throughout, he addresses crucial issues ranging from code design to performance optimization, offering realistic solutions for developers, QA specialists, and testers. Coverage includes

- Understanding automated testing and TDD
- Building effective automated testing workflows
- Testing code for both browsers and servers (using Node.js)
- Using TDD to build cleaner APIs, better modularized code, and more robust software
- Writing testable code

Using test stubs and mocks to test units in isolation

- Continuously improving code through refactoring
- Walking through the construction and automated testing of fully functional software

The accompanying Web site, tddjs.com, contains all of the book's code listings and additional resources.

You Don't Know JS: ES6 & Beyond John Wiley & Sons

Learn to make more efficient apps, with just one language! Smashing Node.js: JavaScript Everywhere equips you with the necessary tools to understand Node.js and its uses in developing efficient web apps. With more traditional web servers becoming obsolete, having knowledge on servers that achieve high scalability and optimal resource consumption using Node.js is the key to your app development success. Teaching you the essentials to making event-driven server-side apps, this book demonstrates how you can use less space and take less time for communication between web client and server. Contains numerous hands-on examples Explains implementation of real-time apps including Socket.IO and HTML5, and WebSockets Addresses practical Node.js advantages from specific design choices Demonstrates why knowledge and use of JavaScript is beneficial Includes an interactive online component with sample chapters Explains components of stand out apps including brevity and benchmarks Looking to enhance your abilities even further? Smashing Node.js: JavaScript Everywhere makes developing server-side apps accessible with its focus on JavaScript, open source, and easy-to-use language.

Programming JavaScript Applications "O'Reilly Media, Inc."

JavaScript lies at the heart of almost every modern web application, from social apps to the newest browser-based games. 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. Eloquent JavaScript, 2nd Edition dives deep into the JavaScript language to show you how to write beautiful, effective code. Author Marijn Haverbeke immerses you in example code from the start, while exercises and full-chapter projects give you hands-on experience with writing your own programs. As you build projects such as an artificial life simulation, a simple programming language, and a paint program, you'll learn: The essential elements of programming, including syntax, control, and data How to organize and clarify your code with object-oriented and functional programming techniques How to script the browser and make basic web applications How to use the DOM effectively to interact with browsers How to harness Node.js to build servers and utilities This edition is thoroughly revised and modernized to reflect the current state of JavaScript and web browsers, with brand-new material, such as a chapter on code performance in JavaScript, and expanded coverage of recursion and closures. All source code is available online in an interactive sandbox, where you can edit the code, run it, and see its output instantly. Isn't it time you became fluent in the language of the Web?

HTML5 Programming with JavaScript For Dummies

Addison-Wesley Professional

How can you overcome JavaScript language oddities and unsafe features? With this book, you'll learn how to create code that's beautiful, safe, and simple to understand and test by using JavaScript's functional programming support. Author Michael Fogus shows you how to apply functional-style concepts with Underscore.js, a JavaScript library that facilitates functional programming techniques. Sample code is available on GitHub at <https://github.com/funjs/book-source>. Fogus helps you think in a functional way to help you minimize complexity in the programs you build. If you're a JavaScript programmer hoping to learn functional programming techniques, or a functional programmer looking to learn JavaScript, this book is the ideal introduction. Use applicative programming techniques with first-class functions Understand how and why you might

leverage variable scoping and closures Delve into higher-order functions—and learn how they take other functions as arguments for maximum advantage Explore ways to compose new functions from existing functions Get around JavaScript's limitations for using recursive functions Reduce, hide, or eliminate the footprint of state change in your programs Practice flow-based programming with chains and functional pipelines Discover how to code without using classes

Beginning JavaScript with DOM Scripting and Ajax DigitalOcean Design and build scalable web applications using Backbone.js About This Book Level up your Backbone.js skills and create professional web applications with the best practices Use the Backbone.js components in the right way and avoid maintenance nightmares Improve your development workflow from application design to deployment Apply the best practices given in this tutorial to solve day-to-day problems in your applications Who This Book Is For This book is for those developers who know the basic concepts of Backbone.js and want to build scalable applications with it. If you are looking for the best practices of using Backbone.js applied to real work applications, this book is for you. You will be able to apply architectural principles to create amazing web applications easily. What You Will Learn Build web applications that scale with Backbone.js Design a powerful architecture that eliminates maintenance nightmares Use common patterns and best practices in Backbone.js web applications developments Pack your applications to be deployed to production environments Clean up your code organization to a simple and maintainable architecture Test your components and get confidence with your code Deal with common scenarios like file uploading and login issues In Detail Backbone.js is a popular library to build single page applications used by many start-ups around the world because of its flexibility, robustness and simplicity. It allows you to bring your own tools and libraries to make amazing webapps with your own rules. However, due to its flexibility it is not always easy to create scalable applications with it. By learning the best practices and project organization you will be able to create maintainable and scalable web applications with Backbone.js. With this book you will start right from organizing your Backbone.js application to learn where to put each module and how to wire them. From organizing your code in a logical and physical way, you will go on to delimit view responsibilities and work with complex layouts. Synchronizing models in a two-way binding can be difficult and with sub resources attached it can be even worse. The next chapter will explain strategies for how to deal with these models. The following chapters will help you to manage module dependencies on your projects, explore strategies to upload files to a RESTful API and store information directly in the browser for using it with Backbone.js. After testing your application, you are ready to deploy it to your production environment. The final chapter will cover different flavors of authorization. The Backbone.js library can be difficult to master, but in this book you will get the necessary skill set to create applications with it, and you will be able to use any other library you want in your stack. Style and approach This book takes a tutorial approach to help you scale your Backbone.js applications. It builds a web application using the best practices and applies architectural design principles to develop maintainable web-apps. Each chapter explains the design decisions and improves the project that is used as an example alongside the book.

JavaScript for Absolute Beginners "O'Reilly Media, Inc."

"Conquering JavaScript - Node.js helps the reader master the Node.js framework for faster and robust development"--

Effective JavaScript "O'Reilly Media, Inc."

"It's uncommon to have a programming language wonk who can speak in such comfortable and friendly language as David does. His walk through the syntax and semantics of JavaScript is both charming and hugely insightful; reminders of gotchas complement realistic use cases, paced at a comfortable curve. You'll find when you finish the book that you've gained a strong and comprehensive sense of mastery." —Paul Irish, developer advocate, Google Chrome "This is not a book for those looking for shortcuts; rather it is hard-won experience distilled into a guided tour. It's one of the few books on JS that I'll recommend without hesitation." —Alex Russell, TC39 member, software engineer, Google In order to truly master JavaScript, you need to learn how to work effectively with the language's flexible, expressive features and how to avoid its pitfalls. No matter how long you've been writing JavaScript code, *Effective JavaScript* will help deepen your understanding of this powerful language, so you can build more predictable, reliable, and maintainable programs. Author David Herman, with his years of experience on Ecma's JavaScript standardization committee, illuminates the language's inner workings as never before—helping you take full advantage of JavaScript's expressiveness. Reflecting the latest versions of the JavaScript standard, the book offers well-proven techniques and best practices you'll rely on for years to come. *Effective JavaScript* is organized around 68 proven approaches for writing better JavaScript, backed by concrete examples. You'll learn how to choose the right programming style for each project, manage unanticipated problems, and work more successfully with every facet of JavaScript programming from data structures to concurrency. Key features include Better ways to use prototype-based object-oriented programming Subtleties and solutions for working with arrays and dictionary objects Precise and practical explanations of JavaScript's functions and variable scoping semantics Useful JavaScript programming patterns and idioms, such as options objects and method chaining In-depth guidance on using JavaScript's unique "run-to-completion" approach to concurrency

TypeScript: Modern JavaScript Development John Wiley & Sons What will you learn from this book? This brain-friendly guide teaches you everything from JavaScript language fundamentals to advanced topics, including objects, functions, and the browser's document object model. You won't just be reading—you'll be playing games, solving puzzles, pondering mysteries, and interacting with JavaScript in ways you never imagined. And you'll write real code, lots of it, so you can start building your own web applications. Prepare to open your mind as you learn (and nail) key topics including: The inner details of JavaScript How JavaScript works with the browser The secrets of JavaScript types Using arrays The power of functions How to work with objects Making use of prototypes Understanding closures Writing and testing applications What's so special about this book? We think your time is too valuable to waste struggling with new concepts. Using the latest research in cognitive science and learning theory to craft a multi-sensory learning experience, *Head First JavaScript Programming* uses a visually rich format designed for the way your brain works, not a text-heavy approach that puts you to sleep. This book replaces *Head First JavaScript*, which is now out of print.

You Don't Know JS: Scope & Closures SitePoint Pty Ltd 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

The Principles of Object-Oriented JavaScript Apress

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.