

# Node.js

## IN ACTION

SECOND EDITION

Alex Young  
Bradley Meck  
Mike Cantelon

WITH Tim Oxley  
Marc Harter  
T.J. Holowaychuk  
Nathan Rajlich



MANNING

# Node Js In Action

**Brent Laster**



## **Node Js In Action:**

*Node.js in Action* Tim Oxley, Nathan Rajlich, TJ Holowaychuk, Alex Young, 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

**Express in Action** Evan Hahn, 2016-04-01 Summary Express in Action is a carefully designed tutorial that teaches you how to build web applications using Node and Express Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the Technology Express js is a web application framework for Node js Express organizes your server side JavaScript into testable maintainable modules It provides a powerful set of features to efficiently manage routes requests and views along with beautiful boilerplate for your web applications Express helps you concentrate on what your application does instead of managing time consuming technical details About the Book Express in Action teaches you how to build web applications using Node and Express It starts by introducing Node s powerful traits and shows you how they map to the features of Express You ll explore key development techniques meet the rich ecosystem of companion tools and libraries and get a glimpse into its inner workings By the end of the book you ll be able to use Express to build a Node app and know how to test it hook it up to a database and automate the dev process What s Inside Simplify Node app setup with Express Testing

Express applications Use Express for easy access to Node features Data storage with MongoDB Covers Express 4 and Express 5 alpha About the Reader To get the most out of this book you ll need to know the basics of web application design and be proficient with JavaScript About the Author Evan Hahn is an active member of the Node and Express community and contributes to many open source JavaScript projects Table of Contents PART 1 INTRO What is Express The basics of Node js Foundations of Express PART 2 CORE Middleware Routing Building APIs Views and templates Pug and EJS PART 3 EXPRESS IN CONTEXT Persisting your data with MongoDB Testing Express applications Security Deployment assets and Heroku Best practices

**Node.js in Action** Mike Cantelon,T. J. Holowaychuk,Marc Harter,Nathan Rajlich,2014 Node js in Action shows you how to build production quality application Clear introductions of key concepts and example by example coverage take you from setup to deployment From the back cover *Node.js in Action, Second Edition* Bradley Cantelon,2017 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 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 *Amazon Web Services in Action, Third Edition* Andreas Wittig,2023-05-30 Master essential best practices for deploying and managing applications on Amazon Web Services This revised bestseller is packed with techniques for building highly available and scalable architectures and automating deployment with Infrastructure as Code Leverage globally distributed data centers to launch virtual machines with EC2 Store and archive large volumes of data with EBS S3 and EFS Persist and query data with highly available and scalable database systems with RDS and DynamoDB Enhance performance with caching data in memory with ElastiCache and MemoryDB Use Infrastructure as Code to automate your cloud infrastructure Secure workloads running in the cloud with VPC and IAM Build fault tolerant web applications with ALB and SQS Automate common sysadmin tasks with Lambda CLI and SDK Build cloud native applications based on containers with AppRunner ECS Fargate Thousands of developers have chosen Amazon Web

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*WebAssembly in Action* Gerard Gallant,2019-11-06 Summary WebAssembly in Action introduces the WebAssembly stack and walks you through the process of writing and running browser based applications Expert developer Gerard Gallant gives you a firm foundation of the structure of a module HTML basics JavaScript Promises and the WebAssembly JavaScript API About the technology Write high performance browser based applications without relying only on JavaScript By compiling to the WebAssembly binary format your C C or Rust code runs at near native speed in the browser WebAssembly delivers greater speed opportunities to reuse existing code and access to newer and faster libraries Plus you can easily interact with JavaScript when you need to About the book WebAssembly in Action teaches you how to write and run high performance browser based applications using C and other languages supported by WebAssembly In it you ll learn to create native WebAssembly modules interact with JavaScript components and maximize performance with web workers and pthreads And you ll love how the clearly organized sections make it a breeze to find the important details about every function feature and technique What s inside Dynamic linking of multiple modules at runtime Communicating between modules and JavaScript Debugging with WebAssembly Text Format Threading with web workers and pthreads About the reader Written for developers with a basic understanding of C C JavaScript and HTML About the author Gerard Gallant is a Microsoft Certified Professional and a Senior Software Developer at Dovico Software He blogs regularly on Blogger com and DZone com

**hapi.js in Action** Matt Harrison,2016-12-09 Summary Hapi js in Action teaches you how to build modern

Node driven applications using hapi js Packed with examples this book takes you from your first simple server through the skills you ll need to build a complete application Foreword by Eran Hammer Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the Technology The hapi js web framework for Node js is built around three radical ideas Developer productivity hapi s intuitive setup gets you up and running in no time Maintainability hapi s modular design allows for easy scaling and improvement Flexibility hapi has a lightweight core that you can expand and customize with plugins Are you ready to get hapi About the Book Hapi js in Action is an incredibly practical book that teaches you to build APIs servers and applications using Node js and the hapi js framework You ll begin with an easy to follow mental model of a Node js web application and see exactly where hapi fits into the picture Then you ll walk through building an API and composing it into a web application Along the way you ll explore key topics like validation testing authentication and deployment Throughout you ll learn how to build rock solid secure and fast applications What s Inside Best practices for Node application design Building APIs with hapi Maintaining and scaling applications Extending hapi with plugins About the Reader This book assumes you have strong JavaScript skills Experience with Node js is helpful but not required About the Author Matt Harrison is a core contributor to hapi js and an active member of the Node community Table of Contents PART 1 FIRST STEPS Introducing hapi Building an API Building a website PART 2 EXPANDING YOUR TOOLBOX Routes and handlers in depth Understanding requests and responses Validation with Joi Building modular applications with plugins Cache me if you can PART 3 CREATING ROCK SOLID APPS Authentication and security Testing with Lab Code and server inject Production and beyond

**Mastering JavaScript Promises** Muzzamil Hussain,2015-07-24 JavaScript is a tool for the gurus who create highly useful applications but it has some limitations To overcome these limitations a concept called JavaScript promises is rising rapidly in popularity Promises makes writing complex logics more manageable and easy This book starts with an introduction to JavaScript promises and how it has evolved over time You will learn the JavaScript asynchronous model and how JavaScript handles asynchronous programming Next you will explore the promises paradigm and its advantages Finally this book will show you how to implement promises in platforms used in project development including WinRT jQuery and Node js

**Node.js in Action** Crapo Ted,Cotton Moore,2025-06-09 Master Node js the Smart Way Through Visual Learning and Real Projects Are you tired of endless theory and coding tutorials that go nowhere Node js in Action is your fast track guide to building lightning fast scalable apps with hands on projects and easy to grasp visuals that bring concepts to life Whether you re a total beginner or looking to level up your backend skills this book gives you real world experience that sticks Through step by step tutorials interactive diagrams and complete project builds you ll not only learn Node js you ll apply it immediately

Sails.js in Action Irl Nathan,Michael McNeil,2017-01-22 Summary Sails js in Action is a comprehensive guide to buildingenterprise capable web applications using Node and Sails Written by the creators of the Sails js framework this book carefully introduces each concept technique

and tool with real world examples and crystal clear explanations Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the Technology Sails makes professional web development a breeze This instantly familiar MVC framework automatically handles the tedious application boilerplate so you can concentrate on developing features and creating business value You get powerful tools for rapid API development task automation an ORM and easy integration with any web mobile or IoT frontend And because you re using Node js it s JavaScript all the way down About the Book Sails js in Action is a comprehensive guide on how to build enterprise capable web applications Written by the creators of Sails js this book introduces each concept and technique with real world examples and thorough explanations As you read you ll learn to build the backend of a typical web application while you explore real time programming with WebSockets security fundamentals and best practices for building Sails Node js apps What s Inside Creating the backend for a web mobile or IoT app Real time programming with WebSockets User management authentication and password recovery Using Sails to autogenerate REST APIs Custom backend development and third party API integrations About the Reader Readers should be comfortable with JavaScript and frontend web development About the Author Mike McNeil is the creator of Sails js Irl Nathan is the producer of sailsCasts a series focused on using Sails Table of Contents Getting started First steps Using static assets Using the blueprint API Custom backend code Using models Custom actions Server rendered views Authentication and sessions Policies and access control Refactoring Embedded data and associations Ratings followers and search Realtime with WebSockets Deployment testing and security

**Learning Node.js**  
Marc Wandschneider, 2013 Learning Node.js A Hands On Guide to Building Web Applications in JavaScript Node.js makes it far easier to create fast compact and reliable web network applications and web servers and is rapidly becoming indispensable to modern web developers Learning Node.js brings together the knowledge and JavaScript code you need to build master the Node.js platform and build server side applications with extraordinary speed and scalability You ll start by installing and running Node.js understanding the extensions it uses and quickly writing your first app Next building on the basics you ll write more capable application servers and extend them with today s most powerful Node.js tools and modules Finally you ll discover today s best practices for testing running Node.js code on production servers and writing command line utilities Throughout the book author Marc Wandschneider teaches by walking you line by line through carefully crafted examples demonstrating proven techniques for creating highly efficient applications and servers Build Node.js solutions that leverage your current JavaScript skills Master Node.js nonblocking IO and async programming Handle more requests and increase your application s flexibility Use and write your own modules Perform common JSON web server tasks Use browsers to generate pages on the fly via Ajax calls and template libraries Simplify development with the express framework Create database back ends using popular NoSQL and relational databases Deploy and run Node.js apps on Unix OS X or Windows servers Take advantage of multiprocessor hardware Support virtual hosts and SSL HTTPS security Test Node.js programs

that mix synchronous async and RESTful server API functionality

**Learning GitHub Actions** Brent Laster, 2023-08-17  
Automate your software development processes with GitHub Actions the continuous integration and continuous delivery platform that integrates seamlessly with GitHub With this practical book open source author trainer and DevOps director Brent Laster explains everything you need to know about using and getting value from GitHub Actions You ll learn what actions and workflows are and how they can be used created and incorporated into your processes to simplify standardize and automate your work in GitHub This book explains the platform components use cases implementation and integration points of actions so you can leverage them to provide the functionality and features needed in today s complex pipelines and software development processes You ll learn how to design and implement automated workflows that respond to common events like pushes pull requests and review updates You ll understand how to use the components of the GitHub Actions platform to gain maximum automation and benefit With this book you will Learn what GitHub Actions are the various use cases for them and how to incorporate them into your processes Understand GitHub Actions structure syntax and semantics Automate processes and implement functionality Create your own custom actions with Docker JavaScript or shell approaches Troubleshoot and debug workflows that use actions Combine actions with GitHub APIs and other integration options Identify ways to securely implement workflows with GitHub Actions Understand how GitHub Actions compares to other options

**Automating Workflows with GitHub Actions** Priscila Heller, 2021-11-11 Build test and deploy code right from your GitHub repository by automating customizing and executing software development workflows with GitHub Actions Key Features Enhance your CI CD and DevOps workflows using GitHub Actions Discover how to create custom GitHub Actions using Docker and JavaScript Get up and running with building a CI CD pipeline effectively Book Description GitHub Actions is one of the most popular products that enables you to automate development tasks and improve your software development workflow Automating Workflows with GitHub Actions uses real world examples to help you automate everyday tasks and use your resources efficiently This book takes a practical approach to helping you develop the skills needed to create complex YAML files to automate your daily tasks You ll learn how to find and use existing workflows allowing you to get started with GitHub Actions right away Moving on you ll discover complex concepts and practices such as self hosted runners and writing workflow files that leverage other platforms such as Docker as well as programming languages such as Java and JavaScript As you advance you ll be able to write your own JavaScript Docker and composite run steps actions and publish them in GitHub Marketplace You ll also find instructions to migrate your existing CI CD workflows into GitHub Actions from platforms like Travis CI and GitLab Finally you ll explore tools that ll help you stay informed of additions to GitHub Actions along with finding technical support and staying engaged with the community By the end of this GitHub book you ll have developed the skills and experience needed to build and maintain your own CI CD pipeline using GitHub Actions What you will learn Get to grips with the basics of GitHub and the YAML syntax Understand key concepts of GitHub Actions Find out how

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**Node.js Design Patterns** Mario Casciaro, Luciano Mammino, 2020-07-29 Learn proven patterns techniques and tricks to take full advantage of the Node js platform Master well known design principles to create applications that are readable extensible and that can grow big Purchase of the print or Kindle book includes a free eBook in the PDF format Key Features Learn how to create solid server side applications by leveraging the full power of Node js Understand how Node js works and learn how to take full advantage of its core components as well as the solutions offered by its ecosystem Avoid common mistakes and use proven patterns to create production grade Node js applications Book Description In this book we will show you how to implement a series of best practices and design patterns to help you create efficient and robust Node js applications with ease We kick off by exploring the basics of Node js analyzing its asynchronous event driven architecture and its fundamental design patterns We then show you how to build asynchronous control flow patterns with callbacks promises and async await Next we dive into Node js streams unveiling their power and showing you how to use them at their full capacity Following streams is an analysis of different creational structural and behavioral design patterns that take full advantage of JavaScript and Node js Lastly the book dives into more advanced concepts such as Universal JavaScript scalability and messaging patterns to help you build enterprise grade distributed applications Throughout the book you ll see Node js in action with the help of several real life examples leveraging technologies such as LevelDB Redis RabbitMQ ZeroMQ and many others They will be used to demonstrate a pattern or technique but they will also give you a great introduction to the Node js ecosystem and its set of solutions What you will learn Become comfortable with writing asynchronous code by leveraging callbacks promises and the async await syntax Leverage Node js streams to create data driven asynchronous processing pipelines Implement well known software design patterns to create production grade applications Share code between Node js and the browser and take advantage of full stack JavaScript Build and scale microservices and distributed systems powered by Node js Use Node js in conjunction with other powerful technologies such as Redis RabbitMQ ZeroMQ and LevelDB Who this book is for This book is for developers and software architects who have some prior basic knowledge of JavaScript and Node js and now want to get the most out of these technologies in terms of productivity design quality and scalability Software professionals with intermediate experience in Node js and JavaScript will also find valuable the more advanced patterns and techniques

presented in this book This book assumes that you have an intermediate understanding of web application development databases and software design principles **The Node Beginner Book** Manuel Kiessling,2012 Ryan Dahl creator of Node js This is an amazing introduction to Node js The aim of The Node Beginner Book is to get you started with developing applications for Node js teaching you everything you need to know about advanced JavaScript along the way **React in Action** Mark Thomas,2018-05-28 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 **JavaScript: A Beginner's Guide, Fifth Edition** John Pollock,2019-11-08 Get up and running on the latest JavaScript standard using this fully updated beginner s guide This hands on fast paced guide shows from start to finish how to create dynamic Web pages complete with special effects using JavaScript This edition contains updates for all major new features and the latest Web development techniques and practices You will discover how to extend

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**Distributed Systems with Node.js** Thomas Hunter II, 2020-11-04 Many companies from startups to Fortune 500 companies alike use Node.js to build performant backend services And engineers love Node.js for its approachable API and familiar syntax Backed by the world's largest package repository Node.js' enterprise foothold is only expected to grow In this hands on guide author Thomas Hunter II proves that Node.js is just as capable as traditional enterprise platforms for building services that are observable scalable and resilient Intermediate to advanced Node.js developers will find themselves integrating application code with a breadth of tooling from each layer of a modern service stack Learn why running redundant copies of the same Node.js service is necessary Know which protocol to choose depending on the situation Fine tune your application containers for use in production Track down errors in a distributed

setting to determine which service is at fault Simplify app code and increase performance by offloading work to a reverse proxy Build dashboards to monitor service health and throughput Find out why so many different tools are required when operating in an enterprise environment

**Real Time Programming 1986** J. Szlanko, 1986 The 1986 IFAC IFIP Workshop on real time programming represents the 14th meeting of this workshop since it was first organized in 1971 Traditionally a meeting of a small number of experts the papers presented at this meeting concentrate on the topics of real time environment and executives software development tools and languages and special real time applications The continuing progress being made in this field of programming is amply reflected by the papers and should be of interest to anyone wishing to be kept up to date in the field

## The Enigmatic Realm of **Node Js In Action**: Unleashing the Language is Inner Magic

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