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NODE.js

Professionell
hochperformante Software
entwickeln

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Node Js Professionell Hochperformante Software Entwickeln

Andrew Mead



Node Js Professionell Hochperformante Software Entwickeln:

Programmierparadigmen Christian Wagenknecht, 2016-05-23 Im Verlaufe ihres Berufslebens müssen sich Informatiker immer wieder in neue Programmier- und Fachsprachen einarbeiten. Der Erfolg dieses fortwährenden Lernprozesses wird zu einem erheblichen Maß durch den Stand des Wissens über Programmierstile und damit verbundene Denkformen bestimmt. Paradigmenwissen ist also von besonderer Bedeutung und muss frühzeitig im Studium verankert werden. Das vorliegende Buch verwendet für die Vermittlung dieses Wissens einen völlig neuen didaktischen Ansatz. Es wird nur eine einzige Sprache benutzt, in der sämtliche Paradigmen ausgedrückt und weitere Grundkonzepte der Programmierung thematisiert werden können. Dieses einführende Lehrbuch ist besonders für Informatik-Studierende der ersten Semester an Fachhochschulen, Universitäten und Berufsakademien geeignet. Es kann ebenso in Fortbildungskursen und an Schulen Verwendung finden.

Node.js Robert Prediger, Ralph Winzinger, 2015-08-06 Was ist Node.js und warum sollte ich mir das aneignen? Lernen Sie die Charakteristiken und typischen Einsatzgebiete von Node.js kennen. Begleiten Sie uns im Umfeld von JavaScript und Node.js durch den kompletten Entwicklungszyklus: Develop, Build, Test, Run. Erleben Sie Node.js in Aktion anhand einer Vielzahl kleiner Beispiele, die typische Probleme und deren Lösung mit gängigen Tools und Frameworks zeigen. Sammeln Sie ausreichend Hintergrundinformation und Best Practices, um selbst zu entscheiden, ob JavaScript und Node.js the right tool for the job ist. Extra E-Book inside! Es gibt nur wenige Sprachen, die sich seit so langer Zeit so klar am Markt behaupten wie JavaScript. Dies ist durchaus erstaunlich, wenn man sich vor Augen hält, wie der Werdegang von JavaScript aussieht und wie schlecht sein Ruf war. Mit Node.js und der darunter liegenden V8 Engine von Google ist mehr entstanden als nur eine hochperformante Server Runtime. Wir können jetzt auf ein riesiges System von Modulen zurückgreifen und auf professionelle Entwicklungswerkzeuge, die den Vergleich mit Tools aus dem Enterprise-Umfeld nicht scheuen müssen. Wenn massiver Datenverkehr behandelt werden muss, ist Node.js eine valide Option, weil es Server viel besser auslasten kann als traditionelle Systeme. Es kann mehr Leistung auf vorhandener Hardware erbringen oder den selben Ansturm mit weniger Ressourcen abarbeiten. Führt man sich die bereits heute sichtbaren Auswirkungen der Digitalisierung vor Augen, so ist unstrittig, dass es immer weniger attraktiv sein wird, Systeme mit einem großen Resource Footprint zu betreiben. Node.js und JavaScript hingegen können genau hier ihre Fähigkeiten ausspielen und werden sicherlich noch lange im Markt zu finden sein. **AUS DEM INHALT:** Tooling, IDEs und Hosting, NPM, Testing, Debugging, Monitoring, Dateien, Streams, Datenbanken, REST, SOAP, Services, Web Frontends, native Plug-ins, Deployment, Hosting, Architektur, Performanceoptimierung, Systemvoraussetzungen für E-Book inside. **Internet-Verbindung und Adobe Reader** **Professional Node.js** Pedro Teixeira, 2012-10-01 Learn to build fast and scalable software in JavaScript with Node.js. Node.js is a powerful and popular new framework for writing scalable network programs using JavaScript. This no-nonsense book begins with an overview of Node.js and then quickly dives into the code, core concepts, and APIs. In-depth coverage pares down the essentials to cover

debugging unit testing and flow control so that you can start building and testing your own modules right away Covers node and asynchronous programming main concepts Addresses the basics modules buffers events and timers Explores streams file systems networking and automated unit testing Goes beyond the basics and shares techniques and tools for debugging unit testing and flow control If you already know JavaScript and are curious about the power of Node js then this is the ideal book for you

Deploying Node.js Sandro Pasquali,2015-07-23 Node js is a popular choice for teams that need to design build test deploy maintain and monitor large scale distributed systems Starting with a detailed overview of the Node js architecture this book covers topics that will help in application development testing deployment and maintenance You will learn about concurrency event loops callbacks and streams Furthermore step by step instructions on deploying applications to providers such as DigitalOcean and Heroku will be provided including information on setting up load balancers and proxies Message queues and other techniques for managing state and session data at scale will also be covered A series of examples on deploying your Node js applications in production environments are provided including a discussion on setting up continuous deployment and integration for your team Popular tools for testing deploying building and monitoring Node js applications are covered helping you get up and running quickly

Practical Node.js Azat Mardan,2018-11-03 Learn how to build a wide range of scalable real world web applications using a professional development toolkit If you already know the basics of Node js now is the time to discover how to bring it to production level by leveraging its vast ecosystem of packages With this book you ll work with a varied collection of standards and frameworks and see how all those pieces fit together Practical Node js takes you from installing all the necessary modules to writing full stack web applications You ll harness the power of the Express js and Hapi frameworks the MongoDB database with Mongoskin and Mongoose You ll also work with Pug and Handlebars template engines Stylus and LESS CSS lanaguages OAuth and Everyauth libraries and the Socket IO and Derby libraries and everything in between This exciting second edition is fully updated for ES6 ES2015 and also covers how to deploy to Heroku and AWS daemonize apps and write REST APIs You ll build full stack real world Node js apps from scratch and also discover how to write your own Node js modules and publish them on NPM Fully supported by a continuously updated source code repository on GitHub and with full color code examples learn what you can do with Node js and how far you can take it What You ll Learn Manipulate data from the mongo console Use the Mongoskin and Mongoose MongoDB libraries Build REST API servers with Express and Hapi Deploy apps to Heroku and AWS Test services with Mocha Expect and TravisCI Implement a third party OAuth strategy with Everyauth Web developers who have some familiarity with the basics of Node js and want to learn how to use it to build apps in a professional environment

Mastering Node.js Sandro Pasquali, Kevin Faaborg,2017-12-29 Node js with its strong features and ability to write server as well as client side code with JavaScript has become a popular choice amongst developers for building powerful web applications This book is a deep dive into showing facets of Node which are helpful for creating highly concurrent and scalable real time applications

Node.js Design Patterns Mario Casciaro, Luciano Mammino, 2016-07-18 Get the best out of Node.js by mastering its most powerful components and patterns to create modular and scalable applications with ease About This Book Create reusable patterns and modules by leveraging the new features of Node.js Understand the asynchronous single thread design of node and grasp all its features and patterns to take advantage of various functions This unique guide will help you get the most out of Node.js and its ecosystem Who This Book Is For The book is meant for developers and software architects with a basic working knowledge of JavaScript who are interested in acquiring a deeper understanding of how to design and develop enterprise level Node.js applications Basic knowledge of Node.js is also helpful to get the most out of this book What You Will Learn Design and implement a series of server side JavaScript patterns so you understand why and when to apply them in different use case scenarios Become comfortable with writing asynchronous code by leveraging constructs such as callbacks promises generators and the async await syntax Identify the most important concerns and apply unique tricks to achieve higher scalability and modularity in your Node.js application Untangle your modules by organizing and connecting them coherently Reuse well known techniques to solve common design and coding issues Explore the latest trends in Universal JavaScript learn how to write code that runs on both Node.js and the browser and leverage React and its ecosystem to implement universal applications In Detail Node.js is a massively popular software platform that lets you use JavaScript to easily create scalable server side applications It allows you to create efficient code enabling a more sustainable way of writing software made of only one language across the full stack along with extreme levels of reusability pragmatism simplicity and collaboration Node.js is revolutionizing the web and the way people and companies create their software In this book we will take you on a journey across various ideas and components and the challenges you would commonly encounter while designing and developing software using the Node.js platform You will also discover the Node.js way of dealing with design and coding decisions The book kicks off by exploring the basics of Node.js describing its asynchronous single threaded architecture and the main design patterns It then shows you how to master the asynchronous control flow patterns and the stream component and it culminates into a detailed list of Node.js implementations of the most common design patterns as well as some specific design patterns that are exclusive to the Node.js world Lastly it dives into more advanced concepts such as Universal Javascript and scalability and it's meant to conclude the journey by giving the reader all the necessary concepts to be able to build an enterprise grade application using Node.js Style and approach This book takes its intended readers through a comprehensive explanation to create a scalable and efficient real time server side apps

Beginning API Development with Node.js Anthony Nandaa, 2018-07-24 Using the same framework to build both server and client side applications saves you time and money This book teaches you how you can use JavaScript and Node.js to build highly scalable APIs that work well with lightweight cross platform client applications It begins with the basics of Node.js in the context of backend development and **Advanced Node.js Development** Andrew Mead, 2018-03-30 Takes you through

creating your own API building a full real time web app securing your Node systems and practical applications of the latest Async and Await technologies It maps out everything in a comprehensive easy to follow package designed to get you up and running quickly Key Features Entirely project based and practical Explains the why of Node js features not just the how providing with a deep understanding and enabling you to easily apply concepts in your own applications Covers the full range of technologies around Node js npm MongoDB version control with Git and many more Book Description Advanced Node js Development is a practical project based book that provides you with all you need to progress as a Node js developer Node is a ubiquitous technology on the modern web and an essential part of any web developer s toolkit If you re looking to create real world Node applications or you want to switch careers or launch a side project to generate some extra income then you re in the right place This book was written around a single goal turning you into a professional Node developer capable of developing testing and deploying real world production applications There s no better time to dive in According to the 2018 Stack Overflow Survey Node is in the top ten for back end popularity and back end salary This book is built from the ground up around the latest version of Node js version 9 x x You ll be learning all the cutting edge features available only in the latest software versions This book delivers advanced skills that you need to become a professional Node developer Along this journey you ll create your own API you ll build a full real time web app and create projects that apply the latest Async and Await technologies Andrew Mead maps everything out for you in this book so that you can learn how to build powerful Node js projects in a comprehensive easy to follow package designed to get you up and running quickly What you will learn Develop test and deploy real world Node js applications Master Node js by building practical working examples Use awesome third party Node modules such as MongoDB Mongoose Socket io and Express Create real time web applications Explore async and await in ES7 Who this book is for This book is for anyone looking to launch their own Node applications switch careers or freelance as a Node developer You should have a basic understanding of JavaScript in order to follow this book This book follows directly on from Learning Node js Development but more advanced readers can benefit from this book without having read the first part [Node.js for Beginners](#) Ulises Gascón,2024-05-10 Build your first production grade web app from scratch using Node js Express MongoDB authentication and testing with guidance from a member of the Express Technical Committee as well as a Node js core collaborator and releaser Key Features Learn JavaScript async programming and event driven architectures in Node js Discover best practices for secure deployment and testing of Node js apps Build a feature rich web app from scratch using MongoDB Express js and passport js including testing Purchase of the print or Kindle book includes a free PDF eBook Book DescriptionNode js revolutionizes server side JavaScript development and empowers developers to build efficient scalable and versatile applications across a range of use cases This book is written by a Node js core collaborator and releaser and is the only book for beginners on Node js It takes you on a progressive learning path that will give you the skills needed to leverage Node js You ll learn Node js fundamentals and refresh your knowledge of

JavaScript before transitioning to the development of modern web applications using Node.js, Express.js, and MongoDB. You'll get hands on with complex topics such as asynchronous programming, npm libraries, event-driven patterns for HTTP servers, RESTful API, and JSON Web Tokens. The final chapters will walk you through the deployment process, offering insights into various strategies including bare metal setups, virtual machines, and containerization with Docker. You'll also be guided through the use of Process Manager 2 (PM2) for efficient process management. By the end of this Node.js book, you'll have the skills to craft, test, and deploy Node.js web applications confidently and use this powerful stack in your day-to-day projects.

What you will learn: Build solid and secure Node.js applications from scratch. Discover how to consume and publish npm packages effectively. Master patterns for refactoring and evolving your applications over time. Gain a deep understanding of essential web development principles including HTTP, RESTful API design, JWT authentication, authorization, and error handling. Implement robust testing strategies to enhance the quality and reliability of your applications. Deploy your Node.js applications to production environments using Docker and PM2.

Who this book is for: This book is for developers eager to learn Node.js swiftly and utilize it for web app development. Front-end developers looking to delve into back-end development or become full-stack developers using Node.js will also benefit from this book's comprehensive coverage of topics.

Before you get started with this book: You'll need to be familiar with the basics of coding JavaScript programming or another language, Git, and/or GitHub, and front-end development, as these topics aren't covered in the book.

Mastering Node.js Sandro Pasquali, 2013-11-25. This book contains an extensive set of practical examples and an easy-to-follow approach to creating 3D objects. This book is great for anyone who already knows JavaScript and who wants to start creating 3D graphics that run in any browser. You don't need to know anything about advanced math or WebGL; all that is needed is a general knowledge of JavaScript and HTML. The required materials and examples can be freely downloaded, and all tools used in this book are open source.

Automating with Node.js Shaun Michael Stone, 2018-06-14. Automate your workflow with the power of Node.js. If your job is loaded with manual work, then why not write scripts that can deal with it for you? With this book, you will learn how to deal with many tasks such as zipping files, emailing colleagues, and deploying your work at the press of a button. The book is structured into two parts. The first part is a collection of recipes or building blocks that behave as individual global commands. These can be used as you go about your day and can be called at any time to speed up your workflow or for pure convenience. The second part is a walkthrough of creating a cross-platform build tool from the ground up that you and your team can use to speed up your workflow.

Pro Node.js for Developers Colin J. Ihrig, 2014-01-18. Since its creation in 2009, Node.js has grown into a powerful and increasingly popular asynchronous development framework for creating highly scalable network applications using JavaScript. Respected companies such as Dow Jones and LinkedIn are among the many organizations to have seen Node's potential and adopted it into their businesses. Pro Node.js for Developers provides a comprehensive guide to this exciting new technology. We introduce you to Node, what it is, why it matters, and how to set it up.

before diving deeply into the key concepts and APIs that underpin its operation Building upon your existing JavaScript skills you ll be shown how to use Node js to build both Web and Network based applications to deal with data sources capture events and deal with child processes to create robust applications that will work well in a wide range of circumstances Once you ve mastered these skills we ll go further teaching you more advanced software engineering skills that will give your code a professional edge You ll learn how to create easily reusable modules that will save you time through code reuse to log and debug your applications quickly and effectively and to write code that will scale easily and reliably as the demand for your application grows

MERN Quick Start Guide Eddy Wilson,2018-05-31 The MERN stack is a collection of great tools MongoDB ExpressJS React and Node that provide a strong base for a developer to build easily maintainable web applications With each of them a JavaScript or JavaScript based technology the shared programming language means it takes less time to develop web applications

Node.js Web Development David Herron,2018-05-30 Node js is a server side JavaScript platform using an event driven non blocking I O model allowing users to build fast and scalable data intensive applications running in real time JavaScript is no longer just for browsers and this exciting introduction to Node js will show you how to build data intensive applications that run in real time

Full Stack JavaScript Azat Mardan,2018-11-14 Learn agile JavaScript web development using the latest cutting edge front end and back end technologies including Node js MongoDB Backbone js Parse com Heroku and Microsoft Azure Using a key project example of a message board app you will learn the foundations of a typical web application fetching data displaying it and submitting new data Practical examples of the app build are provided with multiple technologies and all code examples are in full color This book will save you many hours by providing a hand picked and tested collection of quick start guides that will enable you to spend less time learning and more time building your own applications Completely updated for this second edition Full Stack JavaScript uses current versions of all technologies including ES6 ES2015 and the latest versions of Node and npm Prototype fast and ship code that matters

What You ll Learn Use a collection of quick start guides tutorials and suggestions to enhance several development apps Review virtually all setup and deployment step by step Work with Chat web mobile applications Put front end and back end components together and deploy them to production environment Who This Book Is For Programmers who want to learn more about effective JavaScript coding

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 DescriptionIn 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

Instant Node.js Starter Pedro Teixeira, 2013 Get to grips with a new technology understand what it is and what it can do for you and then get to work with the most important features and tasks A simple and easy to follow starter approach will help guide the readers through how to develop a real time web application using Node.js with the help of a sample project Instant NodeJS Starter is great for web developers who know JavaScript and are curious about Node.js and want to understand and be able to quickly start creating their first applications on it This book is also recommended for people with experience in network programming and event driven programming to be able to get started using this exciting technology

Modern Frontend Development with Node.js Florian Rappl, 2022-11-30 Enhance your web development projects by fully leveraging Node.js concepts tools and best practices at frontend Key Features Discover the internals of Node.js focusing on frontend web development Explore the npm frontend ecosystem including its tooling usage and development processes Learn about key web development concepts such as monorepos or publishing libraries Book Description Almost a decade after the release of Node.js the tooling used by frontend developers is fully embracing this cross platform JavaScript runtime which is sadly often limited to server side web development This is where this Node.js book comes in showing you

what this popular runtime has to offer and how you can unlock its full potential to create frontend focused web apps You ll begin by learning the basics and internals of Node js before discovering how to divide your code into modules and packages Next you ll get to grips with the most popular package managers and their uses and find out how to use TypeScript and other JavaScript variants with Node js Knowing which tool to use when is crucial so this book helps you understand all the available state of the art tools in Node js You ll interact with linters such as ESLint and formatters such as Prettier As you advance you ll become well versed with the Swiss Army Knife for frontend developers the bundler You ll also explore various testing utilities such as Jest for code quality verification Finally you ll be able to publish your code in reusable packages with ease By the end of this web development book you ll have gained the knowledge to confidently choose the right code structure for your repositories with all that you ve learned about monorepos What you will learn Develop a frontend application with Node js based tools and libraries Use bundlers such as webpack or Vite to create efficient web applications Leverage test runners such as Jest to ship reliable software Organize code repositories to work in close collaboration with other developers and teams Find out how to publish npm packages to simplify code reuse Improve code quality by enabling consistent formatting using Prettier Who this book is for This book is for junior and intermediate level frontend web developers who are looking to leverage the Node js ecosystem for building frontend solutions The book requires beginner level knowledge of JavaScript HTML and CSS Prior experience in using a standard shell sh will be beneficial

Node.js Web Development David Herron, 2016-06-27 Create real time server side applications with this practical step by step guide About This Book Learn about server side JavaScript with Node js and Node modules through the most up to date book on Node js web development Understand website development both with and without the Connect Express web application framework Develop both HTTP server and client applications Who This Book Is For This book is for anybody looking for an alternative to the P languages Perl PHP and Python or anyone looking for a new paradigm of server side application development You should have at least a rudimentary understanding of JavaScript and web application development What You Will Learn Install and use Node js for both development and deployment Use the Express application framework Configure Bootstrap for mobile first theming Use data storage engines such as MySQL SQLITE3 and MongoDB Understand user authentication methods including OAuth with third party services Deploy Node js to live servers including microservice development with Docker Perform unit testing with Mocha Perform functional testing of the web application with CasperJS In Detail Node js is a server side JavaScript platform using an event driven non blocking I O model allowing users to build fast and scalable data intensive applications running in real time Node js Web Development shows JavaScript is not just for browser side applications It can be used for server side web application development real time applications microservices and much more This book gives you an excellent starting point bringing you straight to the heart of developing web applications with Node js You will progress from a rudimentary knowledge of JavaScript and server side development to

being able to create and maintain your own Node.js application. With this book you'll learn how to use the HTTP Server and Client objects, data storage with both SQL and MongoDB databases, real-time applications with Socket.io, mobile-first theming with Bootstrap, microservice deployment with Docker, authenticating against third-party services using OAuth, and much more.

Style and Approach This book is a practical guide for anyone looking to develop striking and robust web applications using Node.js.

Adopting the Song of Phrase: An Emotional Symphony within **Node Js Professionell Hochperformante Software Entwickeln**

In a global consumed by displays and the ceaseless chatter of immediate interaction, the melodic splendor and mental symphony developed by the written term frequently disappear in to the background, eclipsed by the relentless sound and disruptions that permeate our lives. Nevertheless, located within the pages of **Node Js Professionell Hochperformante Software Entwickeln** a stunning literary treasure brimming with organic thoughts, lies an immersive symphony waiting to be embraced. Crafted by a masterful musician of language, this interesting masterpiece conducts viewers on a psychological journey, skillfully unraveling the hidden tunes and profound influence resonating within each cautiously crafted phrase. Within the depths of the touching assessment, we shall explore the book is key harmonies, analyze its enthralling publishing style, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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