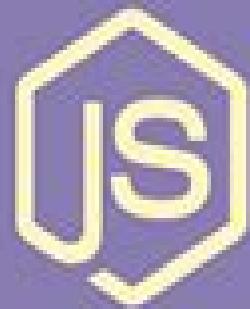


# Design Patterns In Node.js



# Nodejs Design Patterns

**Mithun Satheesh, Bruno Joseph  
D'mello, Jason Krol**

## Nodejs Design Patterns:

*Node.js Design Patterns* Mario Casciaro, 2014-12-30 If you're a JavaScript developer interested in a deeper understanding of how to create and design Node.js applications this is the book for you **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. **Node.js Design Patterns** Sachin Bhatnagar, 2019 In this course you'll take a comprehensive look at industry standard design patterns identify challenges that you would commonly encounter while designing and developing software and implement solutions in Node.js applications. The efficacy of these patterns has been

proven over time and a lot of these standard patterns can be implemented when writing JavaScript apps with Node.js. By implementing design patterns you can write code that is crafted for efficiency and reusability and is resilient against errors and typical pitfalls that result from poorly written code. Resource description page [Node.js Design Patterns](#) Luciano Mammino, Mario Casciaro, 2025-09-25. An essential read for any JavaScript developer, take full advantage of the Node.js platform and build reliable, scalable web applications using design patterns. Purchase of the print or Kindle book includes a free eBook in PDF format. Free with your book, DRM-free PDF version, access to Packt's next gen Reader Email sign up and proof of purchase required. Key Features: Gain a deep understanding of the Node.js philosophy, its core components and the solutions in its ecosystem. Avoid common pitfalls in applying proven patterns to create robust, maintainable Node.js applications. Enhance your development skills through a wealth of real world examples and case studies. Book Description: Node.js underpins much of modern web development, reliably powering APIs and full stack apps across all industries. Authors Luciano Mammino and Mario Casciaro offer a practical guide that unpacks the JavaScript runtime so you can write reliable, high performance Node.js apps. Building on the highly rated third edition, this new edition adds fresh case studies and the latest Node.js developments, newer APIs and libraries, ESM improvements, practical security and production tips, and guidance on using Node.js with TypeScript. It also introduces a new chapter on testing that gives you a full introduction to testing philosophy and practical guidance on writing unit, integration, and end-to-end tests, giving you the confidence to write functional, stable and reliable code. Real world end-to-end examples throughout the book show how to build microservices and distributed systems with Node.js, integrating production proven technologies such as Redis, RabbitMQ, LevelDB and ZeroMQ, the same components you'll find in scalable deployments at companies of all sizes. End-of-chapter exercises consolidate your understanding. By the end of this Node.js book, you'll have the design patterns mindset and hands-on skills every serious Node.js professional needs to confidently architect robust, efficient and maintainable applications. What you will learn: Understand Node.js basics and its async event driven architecture. Write correct, async code using callbacks, promises and `async/await`. Harness Node.js streams to create data driven processing pipelines. Implement trusted software design patterns for production grade applications. Write testable code and automated tests. Unit integration E2E. Use advanced recipes, caching, batching, `async/await`, offload CPU bound work. Build and scale microservices and distributed systems powered by Node.js. Who this book is for: This book is for you if you're a developer or software architect with basic knowledge of JavaScript and Node.js and want to get the most out of these technologies to maximize productivity, design quality and scalability. It'll help you level up from junior to senior roles. This book is a tried and tested reference guide for readers at all levels. Even those with more experience will find value in the more advanced patterns and techniques presented. You're expected to have an intermediate understanding of web application development, databases and software design principles. [\*\*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.js 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

**Node.js: Design Patterns** ,2018 Learn how to use common design patterns in Node.js to write better JavaScript code

**Node.js Design Patterns for Developers** Haider Koele,2025-07-30 Do you feel overwhelmed by code that's hard to read fix or grow Are you curious about Node.js but worry you don't have the technical background to build real applications You're not alone and you're exactly who this book was written for Node.js Design Patterns for Developers Build Scalable and Maintainable Applications is your friendly step by step guide to writing clean robust and modern Node.js code even if you're

a complete beginner No computer science degree prior programming experience or advanced math required All you need is curiosity persistence and the desire to turn confusion into confidence This book transforms complicated coding concepts into simple practical lessons Discover the secrets behind scalable Node js applications and unlock professional best practices used by real world developers Master Node js design patterns through hands on examples and mini projects so you won t just read about code you ll build it Learn how to structure your projects manage errors and write maintainable Node js code using proven techniques like the Singleton Factory Observer and Middleware patterns Embrace mistakes as part of the learning process every error is an opportunity to grow not a reason to give up Move beyond just getting it working and develop the skills to refactor test and scale your applications with confidence Inside you ll find Beginner friendly explanations of Node js fundamentals non blocking I O and asynchronous programming A clear roadmap from basic to advanced design patterns so you ll always know what to learn next Real world coding exercises and guided walkthroughs for building Node js web applications Encouragement at every step celebrating your progress and turning challenges into small wins Practical advice for structuring Node js projects designing scalable APIs and creating maintainable codebases Tips on avoiding common pitfalls debugging your projects and building the habits of a successful developer Relevant topics covered include Node js architecture best practices JavaScript backend development Maintainable Node js code Effective server side programming Modern Node js project structure If you ve ever wondered Can I really do this the answer is yes This book is more than a technical manual it s a supportive companion for your journey from anxious beginner to confident Node js developer Start your Node js adventure today Build skills gain confidence and turn your ideas into real scalable web applications Let s code one pattern one project and one win at a time *Mastering Node.js Design Patterns* Jarrod S Wheeler,2025-10-10

Have you ever wondered why some applications scale effortlessly while others struggle the moment traffic spikes Or why certain systems feel smooth efficient and reliable while others are constantly plagued by errors and bottlenecks The difference often comes down to one critical factor design patterns This book Mastering Node js Design Patterns is built around a simple but powerful idea writing code is not enough If you want your applications to perform at production level remain resilient under pressure and adapt to changing requirements you need proven architectural patterns and strategies Let me ask you this do you feel confident that your current projects can handle real world demands Are you designing for performance scalability and security or just hoping your code will keep up If you ve ever questioned whether your applications are truly production ready then this guide is for you Inside you ll discover The principles of modular architecture how to structure applications in a way that is both clean and maintainable Error handling and resilience techniques that prevent small bugs from becoming catastrophic failures Security focused patterns that protect your applications against common threats without slowing down development Performance optimization strategies that go beyond simple tweaks and deliver measurable improvements in speed and efficiency Logging monitoring and observability practices

to ensure you know exactly what's happening inside your applications at all times. Testing approaches that bring confidence to every release and minimize the risk of regressions. Real world case studies and best practices to help you apply these concepts immediately to your projects. Every concept in this book is explained with clarity and practicality supported by examples that reflect real world scenarios. You won't just learn abstract ideas; you'll see how to apply patterns to solve the exact challenges developers face every day. Think about it: what would mastering design patterns mean for your career? Imagine being the person on your team who can design scalable architectures, anticipate problems before they occur, and deliver applications that just work. That's the skill set this book aims to give you. Whether you're building APIs, real time applications, or large scale backend systems, Mastering Node.js Design Patterns equips you with the knowledge to move from writing code to engineering software. It's not just about syntax or frameworks; it's about professional practices that set your projects apart. Are you ready to stop coding reactively and start building with foresight? Open this book and take the next step toward becoming the developer who designs solutions, not just scripts.

**Node.js: Design Patterns**, 2018. Design patterns encourage programming efficiency and code reuse. Learn how to use the same design patterns used in Java and C programming in JavaScript. This course is a look at 13 of the most popular object oriented design patterns as applied to Node.js. Learn essential creational and structural patterns to help solve common coding challenges while introducing best practices that will keep solutions consistent, complete, and correct. Instructor Alex Banks shows how to implement and improve these patterns so that they are optimized for the Node library.

**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 Description: Node.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 **Web Development with MongoDB and NodeJS** Mithun Satheesh,Bruno Joseph D'mello,Jason Krol,2015-10-30 Build an interactive and full featured web application from scratch using Node js and MongoDB About This Book Configure your development environment to use Node js and MongoDB Use Node js to connect to a MongoDB database and perform data manipulations A practical guide with clear instructions to design and develop a complete web application from start to finish Who This Book Is For This book is designed for JavaScript developers of any skill level that want to get up and running using Node js and MongoDB to build full featured web applications A basic understanding of JavaScript and HTML is the only requirement for this book What You Will Learn Configure your development environment to use Node js and MongoDB Write and configure a web server using Node js powered by the Express js framework Build dynamic HTML pages using the Handlebars template engine Persist application data using MongoDB and Mongoose ODM Test your code using automated testing tools such as the Mocha framework Deploy the development environment to the cloud using services such as Heroku Amazon Web Services and Microsoft Azure Explore Single Page application frameworks to take your web applications to the next level In Detail Node js and MongoDB are quickly becoming one of the most popular tech stacks for the web Powered by Google s V8 engine Node js caters to easily building fast scalable network applications while MongoDB is the perfect fit as a scalable high performance open source NoSQL database solution Using these two technologies together web applications can be built quickly and easily and deployed to the cloud with very little difficulty The book will begin by introducing you to the groundwork needed to set up the development environment Here you will quickly run through the steps necessary to get the main application server up and running Then you will see how to use Node js to connect to a MongoDB database and perform data manipulations From here on the book will take you through integration with third party tools for interaction with web apps It then moves on to show you how to use controllers and view models to generate reusable code that will reduce development time Toward the end of the book we will cover tests to properly execute the code and some popular frameworks for developing web

applications By the end of the book you will have a running web application developed with MongoDB and Node.js along with it's popular frameworks Style and approach An easy guide to Node.js and MongoDB which will quickly introduce you to the relevant concepts by taking you through the different steps involved in building a full fledged web application

**Mastering Node.js** DAVID S. RICHARD, 2025-09-25 Mastering Node.js From Asynchronous Fundamentals to Scalable Design Patterns for Real World Applications If you want to build fast scalable and future proof applications Node.js is no longer optional it's essential

But simply knowing the basics won't get you far To truly stand out as a developer you need to go beyond surface level tutorials and learn how to harness Node.js the way top professionals do with mastery of asynchronous programming a firm grip on design patterns and the ability to create solutions that perform in the real world This book gives you that edge Starting with the core asynchronous principles that make Node.js so powerful you'll steadily progress toward advanced

patterns and architectures that let you build applications capable of handling real world demands Each chapter is designed not just to explain concepts but to show you how to apply them immediately in practical projects You'll discover how to Master callbacks promises and async/await for clean and efficient code Implement proven design patterns tailored for Node.js environments Build scalable, maintainable and high performing applications Solve real world challenges with confidence from microservices to event driven architectures Unlike generic guides this book focuses on what professionals actually need the tools, insights and strategies that separate competent developers from highly sought after engineers Whether you're preparing for your next big project aiming for a senior developer role or simply determined to sharpen your Node.js expertise this book gives you the roadmap By the end you won't just understand Node.js you'll be able to master it and apply it at a level where performance, scalability and reliability are non-negotiable Your journey to becoming a Node.js expert starts here

Open this book and take the step that most developers never do

**Node.js Design Pattern** Tom L. Lloyd, 2015-08-10

Thought provoking and accessible in approach this updated and expanded second edition of the Node.js Design Pattern provides a user friendly introduction to the subject Taking a clear structural framework it guides the reader through the subject's core elements A flowing writing style combines with the use of illustrations and diagrams throughout the text to ensure the reader understands even the most complex of concepts This succinct and enlightening overview is a required reading for advanced graduate level students We hope you find this book useful in shaping your future career Feel free to

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**Meteor Design Patterns** Marcelo Reyna, 2015-10-21 Accelerate your code writing skills with over twenty programming patterns that will make your code easier to maintain and scale

**About This Book** Optimize your web application for production use Build views and controllers with minimal effort that will evolve with your application Learn how to maintain a MeteorJS project while it is running in production

**Who This Book Is For** This book is for developers who have already had an introductory course with Meteor Basic knowledge of web development is recommended

**What You Will Learn** Use of Jade, Stylus and CoffeeScript to speed up web

development Increase productivity by leveraging the best packages in the community Optimize your site for load speed with advanced publishers and subscribers Leverage the aggregation framework to produce results with big data Master the intricacies of front end development using Jeet Bootstrap CSS animations and more Optimize your site for search engine visibility Secure your site with Meteor s best practices Track the live status of your application ensuring all errors have been taken care ofIn DetailWith the increasing interest in NodeJS web applications a new framework Meteor has joined the ranks to simplify developer workflows Meteor is one of the few open source frameworks that has received funding since its early development stages It builds on ideas from existing frameworks and libraries offering developers an easy way to develop a prototype app At the same time it gives them the tools and flexibility to build a fully fledged production app Meteor is the weapon of choice for start ups in today s world Meteor Design Patterns cuts through the jargon that most websites play with and gets to the point with simple solutions that will boost your development skills We start off with a refresher on the basics of JavaScript programming such as templates CoffeeScript the Event Loop and the Merge Box amongst others You then learn how to map real world data and optimize the data s publishers to output data with the least amount of work done by the server with some subscribe and publish patterns Next using front end patterns you will learn how to create maintainable and trackable forms and make our site crawlable by any search engine Following this you will see how to optimize and secure the web application and maintain applications without breaking other features Finally you will learn how to deploy a secure production ready application while learning to set up modulus compose with Oplog tracking and SSL certificates as well as error tracking with Kadira Throughout the book you will put your skills to practice and build an online shop from scratch By the end of the book you will have built a feature rich online shop Style and approachThe book is a practical handbook on how to build an e commerce web app using Meteor Every topic ties into the webapp to easily illustrate the concepts that you are learning about

[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 FeaturesDiscover the internals of Node js focusing on frontend web developmentExplore the npm frontend ecosystem including its tooling usage and development processesLearn about key web development concepts such as monorepos or publishing librariesBook 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 learnDevelop a frontend application with Node.js based tools and librariesUse bundlers such as webpack or Vite to create efficient web applicationsLeverage test runners such as Jest to ship reliable softwareOrganize code repositories to work in close collaboration with other developers and teamsFind out how to publish npm packages to simplify code reuseImprove code quality by enabling consistent formatting using PrettierWho 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

**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

[Node.js Projects](#) Jonathan Wexler, 2025-07-31

Whether you're a JavaScript beginner ready to build your first backend app or a self taught developer looking to grow beyond tutorials Node.js Projects gives you the hands on experience you need Through a series of self contained projects ranging from content aggregators to secure password managers web scrapers ML backed analysis and an AI powered learning assistant you'll apply modern tools like Fastify MongoDB Redis JWT and Google's Gemini API in practical job relevant ways With each chapter author Jonathan Wexler challenges you to think like an engineer emphasizing architectural thinking clean coding and iterative design You'll build confidence solving real world problems while deepening your understanding of asynchronous programming API design security practices and scalable deployment patterns Confidently master async programming with `async await` and the Node.js event loop Effectively design scalable APIs using Fastify and modular routing patterns Reliably manage data with the filesystem MongoDB and CSV output Securely implement authentication flows with JWTs and environment based configs Seamlessly integrate third party APIs like OpenAI and Google Gemini Efficiently build real time features with Redis schedulers and event driven logic Smoothly transition from prototype to production with modern Node.js workflows

*Functional Design Patterns for Express.js* Jonathan Lee Martin, 2019 **Getting the Most Out of Node.js Frameworks** Sufyan Bin Uzayr, 2022 Gain the knowledge you need to navigate your way confidently through the ever expanding landscape of modern JavaScript technologies **Professional Node.js** Glenn Dayton, 2018 Through Professional Node.js you will be presented with various sets of patterns that you can use to efficiently solve your everyday development and design problems You will understand what different traditional design patterns look like in Node.js and how

to design modules that focus on performing a single task at a time. You will gain an understanding of the basic building blocks and principles of writing large and well organized Node.js applications. You will be able to apply these principles to problems that don't fall within the scope of existing patterns. [Resource description page](#)

## Unveiling the Energy of Verbal Beauty: An Psychological Sojourn through **Nodejs Design Patterns**

In some sort of inundated with displays and the cacophony of instantaneous connection, the profound energy and psychological resonance of verbal artistry usually fade into obscurity, eclipsed by the continuous barrage of sound and distractions. However, set within the musical pages of **Nodejs Design Patterns**, a charming function of literary elegance that pulses with natural emotions, lies an wonderful trip waiting to be embarked upon. Written by way of a virtuoso wordsmith, this enchanting opus manuals visitors on an emotional odyssey, delicately revealing the latent potential and profound impact stuck within the intricate internet of language. Within the heart-wrenching expanse with this evocative examination, we will embark upon an introspective exploration of the book is key themes, dissect their charming writing model, and immerse ourselves in the indelible effect it leaves upon the depths of readers souls.

<https://crm.allthingsbusiness.co.uk/results/uploaded-files/HomePages/Media%20And%20Ritual%20Media%20And%20Ritual.pdf>

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## **Nodejs Design Patterns Introduction**

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