

Socket Io Node Js Node Serialport Arduino

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Practical Node.js Packt Publishing Ltd

If the phrase scalability sounds alien to you, then this is an ideal book for you. You will not need much Node.js experience as each framework is demonstrated in a way that requires no previous knowledge of the framework. You will be building scalable Node.js applications in no time! Knowledge of JavaScript is required.

Node.js: Real-Time Web with Socket.IO. Packt Publishing Ltd

Pro Express.js is for the reader who wants to quickly get up-to-speed with Express.js, the flexible Node.js framework. Author Azat Mardan clearly explains how to start developing with Express.js with a basic 'Hello World', and then delves into a deep API reference, before looking at common and abstract development problems. Lastly, you will learn how to build a series of real-world apps in order to cement your knowledge. In order to get the best from this book, you will be familiar with Node.js scripts and able to install packages using npm. In the deep API reference, each aspect of the Express.js API is explained clearly with a simple exercise to demonstrate its usage. This includes configuration, settings and environments; different middleware and its uses; templating engines; extracting parameters and routing; request and response; error handling; and running an app. In the next part you'll delve into abstraction, streams, authentication, multithreading, Socket.io, security, and more complex modules. You will also learn about smaller frameworks built using Express.js, such as Sails.js, and Derby. Finally you'll build real-world apps including a REST API, Todo App, and Instagram gallery. Express.js is used by a range of well-known companies such as MySpace and Storify, and it's becoming more and more likely that it'll be a required skill for new developers. With this book you can skip learning via complicated documentation, and get the information from a developer who's been using Express.js for long enough to explain things well. Add Pro Express.js to your library today.

Beans John Wiley & Sons

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.

Smashing Node.js Packt Publishing Ltd

If you know how to use JavaScript in the browser, you already have the skills you need to put JavaScript to work on back-end servers with Node. This hands-on book shows you how to use this popular JavaScript platform to create simple server applications, communicate with the client, build dynamic pages, work with data, and tackle other tasks. Although Node has a complete library of developer-contributed modules to automate server-side development, this book will show you how to program with Node on your own, so you truly understand the platform. Discover firsthand how well Node works as a web server, and how easy it is to learn and use. Set up Node and learn how to build scaffolding for a web application Work with Node natively to see how it functions as a web server Understand how Node receives client data from GET and POST requests Use the Socket.IO module to facilitate realtime client-server communication Choose from among several Node templates to create dynamic pages Learn how to connect to a database, and store data in files Implement the Model-View-Controller pattern, and share Node modules with server and client Pro Express.js "O'Reilly Media, Inc."

In Node Cookbook Second Edition, each chapter focuses on a different aspect of working with Node. Following a Cookbook structure, the recipes are written in an easytounderstand language. Readers will find it easier to grasp even the complex recipes which are backed by lots of illustrations, tips, and hints.If you have some knowledge of JavaScript and want to build fast, efficient, scalable clientserver solutions, then Node Cookbook Second Edition is for you. Knowledge of Node will be an advantage but is not required. Experienced users of Node will be able to improve their skills.

Node.js Web Development Simon and Schuster

Today's mobile devices have GPS and standard APIs to give you access to coordinates—but what can you do with that data? With this concise book, application developers learn how to work with location data quickly and easily, using Node.js, CouchDB, and other open source tools and libraries. Node.js makes it simple to run event code on the Web, and the CouchDB document-oriented database lets you store location data and perform complex queries on it quickly. You'll learn how to get started with these tools, and then use them together to build an example project called MapChat, using HTML and JavaScript code samples. Learn how to serve dynamic content with

Node.js, and use its asynchronous IO to handle several requests at once Become familiar with GeoJSON, Geohash, and the Geospatial Data Abstraction Library (GDAL) for working with spatial data Build geospatial indexes using the GeoCouch branch of CouchDB Combine these tools to build a project that lets users post real-time chat messages tagged with their current map location *Decoupled Django* Apress

Socket. IO Real-Time Web Application DevelopmentPackt Publishing Ltd

Getting Started with GEO, CouchDB, and Node.js "O'Reilly Media, Inc."

Provides information on using Node.js to build scalable Web applications, covering such topics as asynchronous programming, data storage, and output templating.

Node Cookbook Second Edition Packt Publishing Ltd

Create real-time applications using Node.js 10, Docker, MySQL, MongoDB, and Socket.IO with this practical guide and go beyond the developer's laptop to cover live deployment, including HTTPS and hardened security. Key Features Learn server-side JavaScript coding through the most up-to-date book on Node.js Explore the latest JavaScript features, and EcmaScript modules Walk through different stages of developing robust applications using Node.js 10 Book Description 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. 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, maintain, deploy and test your own Node.js application.You will understand the importance of transitioning to functions that return Promise objects, and the difference between fs, fs/promises and fs-extra. 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 use some well known tools to beef up security of Express 4.16 applications. What you will learn Install and use Node.js 10 for both development and deployment Use the Express 4.16 application framework Work with REST service development using the Restify framework Use data storage engines such as MySQL, SQLITE3, and MongoDB Use User authentication methods with OAuth2 Perform Real-time communication with the front-end using Socket.IO Implement Docker microservices in development, testing and deployment Perform unit testing with Mocha 5.x, and functional testing with Puppeteer 1.1.x Work with HTTPS using Let's Encrypt, and application security with Helmet 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.

Core HTML5 2D Game Programming Simon and Schuster

Today's mobile devices have GPS and standard APIs to give you access to coordinates—but what can you do with that data? With this concise book, application developers learn how to work with location data quickly and easily, using Node.js, CouchDB, and other open source tools and libraries. Node.js makes it simple to run event code on the Web, and the CouchDB document-oriented database lets you store location data and perform complex queries on it quickly. You'll learn how to get started with these tools, and then use them together to build an example project called MapChat, using HTML and JavaScript code samples. Learn how to serve dynamic content with Node.js, and use its asynchronous IO to handle several requests at once Become familiar with GeoJSON, Geohash, and the Geospatial Data Abstraction Library (GDAL) for working with spatial data Build geospatial indexes using the GeoCouch branch of CouchDB Combine these tools to build a project that lets users post real-time chat messages tagged with their current map location **hapi.js in Action** Lulu.com

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.

Learning Node John Wiley & Sons

Learn the basics of Socket.IO, and discover how to use this real-time web library to set up a chat application with multiple rooms.

Jump Start Node.js Apress

Summary Get Programming with Node.js teaches you to build web servers using JavaScript and Node. In this engaging tutorial, you'll work through eight complete projects, from writing the code for your first web server to adding live chat to a web app. Your hands will stay on the keyboard as you explore the most important aspects of the Node development process, including security, database management, authenticating user accounts, and deploying to production. You'll especially appreciate the easy-to-follow discussions, illuminating diagrams, and carefully explained code! Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Node.js delivers the speed and reliability you need for ecommerce, social media, and gaming applications. It comes with thousands of prebuilt packages to help you get started immediately. If you want to use JavaScript on the server, Node.js is your choice. What's inside New features from ES2015 and later Writing asynchronous code Creating data models Debugging JavaScript modules About the Reader Written for front-end web developers with intermediate JavaScript skills. Table of Contents GETTING SET UP Lesson 0 - Setting up Node.js and the JavaScript engine Lesson 1 - Configuring your environment Lesson 2 - Running a Node.js application UNIT 1 - GETTING STARTED WITH NODE.JS Lesson 3 - Creating a Node.js module Lesson 4 - Building a simple web server in Node.js Lesson 5 - Handling incoming data Lesson 6 - Writing better routes and serving external files Lesson 7 - Capstone: Creating your first web application UNIT 2 - EASIER WEB DEVELOPMENT WITH EXPRESS.JS Lesson 8 - Setting up an app with Express.js Lesson 9 - Routing in Express.js Lesson 10 - Connecting views with templates Lesson 11 - Configurations and error handling Lesson 12 - Capstone: Enhancing the Confetti Cuisine site with Express.js UNIT 3 - CONNECTING TO A DATABASE Lesson 13 - Setting up a MongoDB database Lesson 14 - Building models with Mongoose Lesson 15 - Connecting controllers and models Using promises with Mongoose Lesson 16 - Capstone: Saving user subscriptions UNIT 4 - BUILDING A USER MODEL Lesson 17 - Improving your data models Lesson 18 - Building the user model Lesson 19 - Creating and reading your models Lesson 20 - Updating and deleting your models Lesson 21 - Capstone: Adding CRUD models to Confetti Cuisine Creating controllers UNIT 5 - AUTHENTICATING USER ACCOUNTS Lesson 22 - Adding sessions and flash messages Lesson 23 - Building a user login and

hashing passwords Lesson 24 - Adding user authentication Lesson 25 - Capstone: Adding user authentication to Confetti Cuisine UNIT 6 - BUILDING AN API Lesson 26 - Adding an API to your application Lesson 27 - Accessing your API from your application Lesson 28 - Adding API security Lesson 29 - Capstone: Implementing an API UNIT 7 - ADDING CHAT FUNCTIONALITY Lesson 30 - Working with Socket.io Lesson 31 - Saving chat messages Lesson 32 - Adding a chat notification indicator UNIT 8 - DEPLOYING AND MANAGING CODE IN PRODUCTION Lesson 33 - Capstone: Adding a chat feature to Confetti Cuisine Lesson 34 - Deploying your application Lesson 35 - Managing in production Lesson 36 - Testing your application Lesson 37 - Capstone: Deploying Confetti Cuisine [Master Node.js by building real-world applications](#) Packt Publishing Ltd

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.

Master Express.js: The Node.js Framework For Your Web Development Packt Publishing Ltd

If you know how to use JavaScript in the browser, you already have the skills you need to put JavaScript to work on back-end servers with Node. This hands-on book shows you how to use this popular JavaScript platform to create simple server applications, communicate with the client, build dynamic pages, work with data, and tackle other tasks. Although Node has a complete library of developer-contributed modules to automate server-side development, this book will show you how to program with Node on your own, so you truly understand the platform. Discover firsthand how well Node works as a web server, and how easy it is to learn and use. Set up Node and learn how to build scaffolding for a web application Work with Node natively to see how it functions as a web server Understand how Node receives client data from GET and POST requests Use the Socket.IO module to facilitate realtime client-server communication Choose from among several Node templates to create dynamic pages Learn how to connect to a database, and store data in files Implement the Model-View-Controller pattern, and share Node modules with server and client

The Node Beginner Book MokoSoft Media

Over 40 recipes to help you create real-time JavaScript applications using the robust Socket.IO framework About This Book Create secure WebSocket connections and real-time mobile applications using Socket.IO Devise efficient messaging systems between the server side and the client side A step-by-step implementation guide to help you create elements of Socket.IO application Who This Book Is For If you have some knowledge of JavaScript and Node.js and want to create awe-inspiring application experiences using real time communication, then this book is for you. Developers with knowledge of other scripting languages should also be able to easily follow along. What You Will Learn Build rich and interactive real-time dashboards using Socket.IO to pipe in data as it becomes available Design chat and multiple-person interfaces that leverage Socket.IO for communication Segment conversations to rooms and namespaces so that every socket doesn't have to receive every message Secure your data by implementing various authentication techniques, locking down the HTTP referrer and using secure WebSockets Load balance across multiple server-side nodes and keep your WebSockets in sync using Redis, RabbitMQ or Memcached Stream binary data such as audio and video in real-time over a Socket.IO connection Create real-time experiences outside of the browser by integrating Socket.IO with hybrid mobile applications In Detail Socket.IO is a JavaScript library that provides you with the ability to implement real-time analytics, binary streaming, instant messaging, and document collaboration. It has two parts: a client-side library that runs in the browser, and a server-side library for node.js. Socket.IO is event-driven and primarily uses the WebSocket protocol that allows us to emit data bi-directionally from the server and the client. Socket.IO This book is a complete resource, covering topics from webSocket security to scaling the server-side of a Socket.IO application and everything in between. This book will provide real-world examples of how secure bi-directional, full-duplex connections that can be created using Socket.IO

for different environments. It will also explain how the connection vulnerabilities can be resolved for large numbers of users and huge amounts of data/messages. By the end of the book, you will be a competent Socket.IO developer. With the help of the examples and real-world solutions, you will learn to create fast, scalable, and dynamic real-time apps by creating efficient messaging systems between the server side and the client side using Socket.IO. Style and approach This book is written in a cookbook-style format and provides practical, immediately usable task-based recipes that show you how to create the elements of a Socket.IO application.

[Instant Node.js Starter](#) Socket. IO Real-Time Web Application Development

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.

[Peer-to-Peer in the Browser](#) Simon and Schuster

In just 24 sessions of one hour or less, Sams Teach Yourself Node.js in 24 Hours will help you master the Node.js platform and use it to build server-side applications with extraordinary speed and scalability. Using this text's straightforward, step-by-step approach, you'll move from basic installation, configuration, and programming all the way through real-time messaging between browser and server, testing and deployment. Every lesson and case-study application builds on what you've already learned, giving you a rock-solid foundation for real-world success! Step-by-step instructions carefully walk you through the most common Node.js development tasks. Quizzes and Exercises at the end of each chapter help you test your knowledge. By the Way notes present valuable additional information related to the discussion. Did You Know? tips offer advice or show you easier ways to perform tasks. Watch Out! cautions alert you to possible problems and give you advice on how to avoid them. Learn how to... · Create end-to-end applications entirely in JavaScript · Master essential Node.js concepts like callbacks and quickly create your first program · Create basic sites with the HTTP module and Express web framework · Manage data persistence with Node.js and MongoDB · Debug and test Node.js applications · Deploy Node.js applications to thirdparty services, such as Heroku and Nodester · Build powerful real-time solutions, from chat servers to Twitter clients · Create JSON APIs using JavaScript on the server · Use core components of the Node.js API, including processes, child processes, events, buffers, and streams · Create and publish a Node.js module

[Node for Front-End Developers](#) Apress

This book aims to provide alternative guides and solutions for building Internet of Things

applications using Javascript. So far JavaScript is commonly used on web-based information system applications. In this book you will dig deeper into JavaScript programming for hardware handling (Arduino) which can be integrated with another JavaScript libraries to build an interactive and real-time web-based interface system.

[Mastering Node.js](#) Manning Publications

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.