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A Hands-On Guide
to Building Web

Applications in
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Learning Node.js
brings together the
knowledge and
JavaScript code

needed 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 the reader line-by-line through carefully crafted examples, demonstrating proven techniques for creating highly efficient applications and servers. The second edition updates coverage of Node.js to reflect changes in the technology and how it is used in the three years since the first edition was published: Explanation of Node's new versioning scheme Updated coverage of Streams New coverage of installation using pre-build installers rather

than from source code New coverage of Mongoose in the section on MongoDB New information about deploying Node on Heroku and Azure Expansion of coverage on testing If you're a developer who wants to build server-side web applications with Node.js, Learning Node.js is your fastest route to success. Build Node.js solutions that leverage current JavaScript skills Master Node.js nonblocking IO and async programming Handle more requests and increase an application ' s flexibility Use and write 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/macOS or Windows servers Deploy apps to Heroku and Microsoft Azure Support virtual hosts and SSL/HTTPS security Test Node.js programs that mix synchronous, async, and RESTful server API functionality Learn the fundamentals of Node.js, and

deploy and test Node.js applications on the web Packt Publishing Ltd Offers comprehensive coverage of the issues, concepts, trends, and technologies of distance learning. Learning Node.js Development Springer Nature Sponsored by Division 15 of APA, the second edition of this groundbreaking book has been expanded to 41 chapters that provide unparalleled coverage of this far-ranging field. Internationally recognized scholars contribute up-to-

date reviews and critical syntheses of the following areas: foundations and the future of educational psychology, learners ' development, individual differences, cognition, motivation, content area teaching, socio-cultural perspectives on teaching and learning, teachers and teaching, instructional design, teacher assessment, and modern perspectives on research methodologies, data, and data analysis. New chapters cover topics such as adult development, self-

regulation, changes in knowledge and beliefs, and writing. Expanded treatment has been given to cognition, motivation, and new methodologies for gathering and analyzing data. The Handbook of Educational Psychology, Second Edition provides an indispensable reference volume for scholars, teacher educators, in-service practitioners, policy makers and the academic libraries serving these audiences. It is also appropriate for graduate level courses devoted

to the study of educational psychology. *Machine Learning and Cognitive Computing for Mobile Communications and Wireless Networks* CIA Training Ltd. This two-volume book constitutes the refereed proceedings of the 3rd International Conference on Multimedia Technology and Enhanced Learning, ICMTTEL 2021, held in April 2021. Due to the COVID-19 pandemic the conference was held virtually. The 97 revised

full papers have been selected from 208 submissions. They describe new learning technologies which range from smart school, smart class and smart learning at home and which have been developed from new technologies such as machine learning, multimedia and Internet of Things. *Open Educational Resources* Lulu.com This book constitutes the proceedings of the 16th International Conference on

Integration of Constraint Programming, Artificial Intelligence, and Operations Research, CPAIOR 2019, held in Thessaloniki, Greece, in June 2019. The 34 full papers presented together with 9 short papers were carefully reviewed and selected from 94 submissions. The conference brings together interested researchers from Constraint Programming (CP), Artificial Intelligence (AI), and Operations Research (OR) to present new techniques or

applications and to provide an opportunity for researchers in one area to learn about techniques in the others. A main objective of this conference series is also to give these researchers the opportunity to show how the integration of techniques from different fields can lead to interesting results on large and complex problems. Learning TypeScript 2.x "O'Reilly Media, Inc." Communication and network technology has witnessed recent rapid

development and numerous information services and applications have been developed globally. These technologies have high impact on society and the way people are leading their lives. The advancement in technology has undoubtedly improved the quality of service and user experience yet a lot needs to be still done. Some areas that still need improvement include seamless wide-area coverage, high-capacity hot-spots, low-power massive e-connections, low-latency and high-

reliability and so on. Thus, it is highly desirable to develop smart technologies for communication to improve the overall services and management of wireless communication. Machine learning and cognitive computing have converged to give some groundbreaking solutions for smart machines. With these two technologies coming together, the machines can acquire the ability to reason similar to the human brain. The research area of machine learning and cognitive

computing cover many fields like psychology, biology, signal processing, physics, information theory, mathematics, and statistics that can be used effectively for topology management. Therefore, the utilization of machine learning techniques like data analytics and cognitive power will lead to better performance of communication and wireless systems. [Third EAI International Conference, ICMTEL 2021, Virtual Event, April 8-9, 2021, Proceedings, Part I](#) Assn of Amer

Colleges
This book presents the proceedings of the 24th European Conference on Artificial Intelligence (ECAI 2020), held in Santiago de Compostela, Spain, from 29 August to 8 September 2020. The conference was postponed from June, and much of it conducted online due to the COVID-19 restrictions. The conference is one of the principal occasions for researchers and practitioners of AI to meet and discuss the latest trends and challenges in all fields of AI and to demonstrate innovative applications and

uses of advanced AI technology. The book also includes the proceedings of the 10th Conference on Prestigious Applications of Artificial Intelligence (PAIS 2020) held at the same time. A record number of more than 1,700 submissions was received for ECAI 2020, of which 1,443 were reviewed. Of these, 361 full-papers and 36 highlight papers were accepted (an acceptance rate of 25% for full-papers and 45% for highlight papers). The book is divided into three sections: ECAI full papers; ECAI highlight papers; and PAIS papers. The topics of these papers cover all aspects of

AI, including Agent-based and Multi-agent Systems; Computational Intelligence; Constraints and Satisfiability; Games and Virtual Environments; Heuristic Search; Human Aspects in AI; Information Retrieval and Filtering; Knowledge Representation and Reasoning; Machine Learning; Multidisciplinary Topics and Applications; Natural Language Processing; Planning and Scheduling; Robotics; Safe, Explainable, and Trustworthy AI; Semantic Technologies; Uncertainty in AI; and Vision. The book will be of

interest to all those whose work involves the use of AI technology. Online and Distance Learning: Concepts, Methodologies, Tools, and Applications Apress
A comprehensive, easy-to-follow guide to creating complete Node apps and understanding how to build, deploy, and test your own apps. Key Features Entirely project-based and practical Explains the "Why" of Node.js features, not just the "how", providing you 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, version control with Git, and much more. Book Description Learning Node.js Development is a practical, project-based book that provides you with all you need to get started as a Node.js developer. Node is a ubiquitous technology on the modern web, and an essential part of any web developers' toolkit. If you are 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 has been written around a single goal—turning you into a professional Node developer capable of developing, testing, and deploying real-world production applications. Learning Node.js Development 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 cuts through the mass of information available around Node and delivers the essential skills that you need to become a Node developer. It takes you through creating complete apps and understanding how to build, deploy, and test your own Node apps. It maps out everything in a comprehensive, easy-to-follow package designed to get you up and running quickly. What you will learn Learn the fundamentals of Node Build apps that respond to

user input Master working with servers Learn how to test and debug applications Deploy and update your apps in the real world Create responsive asynchronous web applications Who this book is for This book targets 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 course. *Concepts, Methodologies, Tools, and Applications* Packt Publishing Ltd

"This comprehensive, six-volume collection addresses all aspects of online and distance learning, including information communication technologies applied to education, virtual classrooms, pedagogical systems, Web-based learning, library information systems, virtual universities, and more. It enables libraries to provide a foundational reference to meet the information needs of researchers, educators, practitioners, administrators, and other stakeholders in online and distance learning"--Provided

by publisher. **Open Networked "i-Learning"** IGI Global Take your web development skills from browser to server with Node—and learn how to write fast, highly scalable network applications on this JavaScript-based platform. Updated for the latest Node Long Term Support (LTS) and Node Current (6.0) releases, this hands-on edition helps you master Node's core

fundamentals and server-side gain experience with several built-in and contributed modules. Get up to speed on Node's event-driven, asynchronous I/O model for developing data-intensive applications that are frequently accessed but computationally simple. If you're comfortable working with JavaScript, this book provides many programming and deployment examples to help you take advantage of

development with Node. Explore the frameworks and functionality for full-stack Node development Dive into Node's module system and package management support Test your application or module code on the fly with Node's REPL console Use core Node modules to build web applications and an HTTP server Learn Node's support for networks, security, and sockets Access operating system

functionality with child processes Learn tools and techniques for Node development and production Use Node in microcontrollers, microcomputers, and the Internet of Things **From Motor Learning to Interaction Learning in Robots** Pearson Education Intelligent Systems and Learning Data Analytics in Online Education provides novel artificial intelligence (AI) and analytics-based methods to improve online

teaching and learning. This book addresses key problems such as attrition and lack of engagement in MOOCs and online learning in general. This book explores the state of the art of artificial intelligence, software tools and innovative learning strategies to provide better understanding and solutions to the various challenges of current e-learning in general and MOOC education. In particular, Intelligent Systems and Learning Data Analytics in Online Education shares stimulating theoretical and practical research from leading international experts. This publication provides useful references for educational institutions, industry, academic researchers, professionals, developers, and practitioners to evaluate and apply. Presents the application of innovative AI techniques to collaborative learning activities. Offers strategies to provide automatic and effective tutoring to students' activities. Offers methods to collect, analyze and correctly visualize learning data in educational environments.

Learning Node
Intelligent Open Learning Systems Concepts, Models and Algorithms

This introductory manual provides the knowledge and techniques necessary for the successful creation and updating of a project schedule. Versions of files at different stages of development are included so you do not have to work through all revisions.

24th European Conference on

Artificial Intelligence, 29 August–8 September 2020, Santiago de Compostela, Spain – Including 10th Conference on Prestigious Applications of Artificial Intelligence (PAIS 2020) BoD

– Books on Demand

This volume of the Urologic Clinics covers the indications, controversies, and complications of Lymphadenectomy in Urologic Oncology. Cancer of the prostate, bladder, testicles, and kidney are covered, along with new imaging modalities and

complications of open and minimally invasive lymphadenectomy .

[Moving to the Server-Side](#)

Springer Education is the key to economic, social and environmental progress, and governments around the world are looking to improve their education systems.

[Learning Language in Logic](#)

IOS Press This book constitutes the proceedings of the 20th International Conference on Advances in Web-Based Learning, ICWL 2021, which was held in Macau, China, in November 2021. The papers

included in this volume deal with multiple topics, from algorithms to systems and applications and are organized in 3 tracks: Online learning methodologies, trust, and analysis; Online learning environment with tools; Online learning privacy issues and special tools.

Develop and maintain captivating web applications with ease, 2nd Edition

Springer Science & Business Media Discover how to build decision trees using SAS Viya! Tree-Based Machine

Learning Methods in SAS Viya covers everything from using a single tree to more advanced bagging and boosting ensemble methods. The book includes discussions of tree-structured predictive models and the methodology for growing, pruning, and assessing decision trees, forests, and gradient boosted trees. Each chapter introduces a new data concern and then walks you through tweaking

the modeling approach, modifying the properties, and changing the hyperparameters, thus building an effective tree-based machine learning model. Along the way, you will gain experience making decision trees, forests, and gradient boosted trees that work for you. By the end of this book, you will know how to: build tree-structured models, including classification trees and regression trees. build tree-based

ensemble models, including forest and gradient boosting. run isolation forest and Poisson and Tweedy gradient boosted regression tree models. implement open source in SAS and SAS in open source. use decision trees for exploratory data analysis, dimension reduction, and missing value imputation. **The Definitive Guide to Drupal 7** IGI Global In presented book the Intelligent Open

Learning Systems (IOLS) are proposed, described, discussed, and evaluated. The IOLS is a system in which traditional methods of online teaching are enhanced through the use of artificial intelligence and cognitive science. This is the main topic of the book. It consists of ten chapters and is divided into three parts. The first part concentrates on the Open Learning System (OLS) analysis, in particular: the social and educational meanings of the OLS, the new role of the teacher and the new requirements regarding the structure of didactic material. Moreover, the cybernetic model of student, teacher and computer collaboration is presented, the teaching-learning process content and its main characteristics are discussed, and the system based approach to the OLS design is proposed. The second part is focused on the problem of knowledge modeling in the OLS based on the ontology and the competence approaches and leading to the learning object concept and competence management in open systems. The third part describes applications of the OLS in the virtual laboratory for competence transfer, the community-built system of distance learning network, and the AGH student city – the real-life

application of the OLS concept. The authors' research findings presented in the book should be useful in various applications related to knowledge management, e-learning systems and information systems.

Educational Research and Innovation Open Educational Resources A Catalyst for Innovation IGI Global Learning Blender walks you through every step of creating an outstanding animated character with the

free, open source, 3D software Blender, and then compositing it in a real video using a professional workflow.

A Hands-on Guide to Creating 3D Animated Characters

Springer This book constitutes the refereed post-conference proceedings on Learning and Intelligent Optimization, LION 15, held in Athens, Greece, in June 2021. The 30 full papers presented have been carefully

reviewed and selected from 35 submissions. LION deals with designing and engineering ways of "learning" about the performance of different techniques, and ways of using past experience about the algorithm behavior to improve performance in the future. Intelligent learning schemes for mining the knowledge obtained online or offline can improve the algorithm design

process and simplify the applications of high-performance optimization methods. Combinations of different algorithms can further improve the robustness and performance of the individual components. *Learning Blender* IGI Global From an engineering standpoint, the increasing complexity of robotic systems and the increasing demand for more autonomously learning robots, has become

essential. This book is largely based on the successful workshop “From motor to interaction learning in robots” held at the IEEE/RSJ International Conference on Intelligent Robot Systems. The major aim of the book is to give students interested the topics described above a chance to get started faster and researchers a helpful compandium.