MongoDB in Action: Covers MongoDB version 3.0 by Kyle Banker



MongoDB in Action: Covers MongoDB version 3.0

Mongodb In Action Covers Mongodb Version 30

Arek Borucki

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robust applications based on MongoDB Administer MongoDB based applications on premise or in the cloud Scale MongoDB to achieve your design goals Integrate MongoDB with big data sources to process huge amounts of data In Detail MongoDB has grown to become the de facto NoSQL database with millions of users from small startups to Fortune 500 companies Addressing the limitations of SQL schema based databases MongoDB pioneered a shift of focus for DevOps and offered sharding and replication maintainable by DevOps teams The book is based on MongoDB 3 x and covers topics ranging from database querying using the shell built in drivers and popular ODM mappers to more advanced topics such as sharding high availability and integration with big data sources You will get an overview of MongoDB and how to play to its strengths with relevant use cases After that you will learn how to query MongoDB effectively and make use of indexes as much as possible The next part deals with the administration of MongoDB installations on premise or in the cloud We deal with database internals in the next section explaining storage systems and how they can affect performance The last section of this book deals with replication and MongoDB scaling along with integration with heterogeneous data sources By the end this book you will be equipped with all the required industry skills and knowledge to become a certified MongoDB developer and administrator Style and approach This book takes a practical step by step approach to explain the concepts of MongoDB Practical use cases involving real world examples are used throughout the book to clearly explain theoretical concepts

Web Microanalysis of Big Image Data Peter Bajcsy, Joe Chalfoun, Mylene Simon, 2018-01-22 This book looks at the increasing interest in running microscopy processing algorithms on big image data by presenting the theoretical and architectural underpinnings of a web image processing pipeline WIPP Software based methods and infrastructure components for processing big data microscopy experiments are presented to demonstrate how information processing of repetitive laborious and tedious analysis can be automated with a user friendly system Interactions of web system components and their impact on computational scalability provenance information gathering interactive display and computing are explained in a top down presentation of technical details Web Microanalysis of Big Image Data includes descriptions of WIPP functionalities use cases and components of the web software system web server and client architecture algorithms and hardware software dependencies The book comes with test image collections and a web software system to increase the reader s understanding and to provide practical tools for conducting big image experiments By providing educational materials and software tools at the intersection of microscopy image analyses and computational science graduate students postdoctoral students and scientists will benefit from the practical experiences as well as theoretical insights Furthermore the book provides software and test data empowering students and scientists with tools to make discoveries with higher statistical significance Once they become familiar with the web image processing components they can extend and re purpose the existing software to new types of analyses Each chapter follows a top down presentation starting with a short introduction and a classification of related methods Next a description of the specific method used in

accompanying software is presented For several topics examples of how the specific method is applied to a dataset parameters RAM requirements CPU efficiency are shown Some tips are provided as practical suggestions to improve accuracy or computational performance Freemium Dave Boyce, 2025-08-26 A Next Big Idea Club Must Read for August 2025 Competing in tech today requires an understanding of product led growth Companies like Dropbox Zoom Slack Atlassian and DocuSign grew into multibillion dollar companies using the 3 step Freemium product strategy 1 instead of hiring an expensive sales force give away software for free 2 let happy users tell others 3 offer a premium subscription version producing a recurring revenue stream Over the last three decades Freemium strategy has evolved into a practice known to tech industry insiders as product led growth which Harvard Business School Lecturer Frank Cespedes calls probably the fastest growing go to market model for businesses globally Freemium is the authoritative guide to product led growth written by Silicon Valley entrepreneur and Harvard MBA Dave Boyce who teaches the first MBA level course on the topic Freemium explains how to develop a product that can sell itself how to ward off competitors and how to seamlessly move upmarket selling to larger customers It details how the product itself instead of expensive employees can be used for customer onboarding customer service and customer retention Freemium also details how non software companies and enterprise sales led companies are combining product led growth tactics with more traditional go to market initiatives Competing in nearly every tech related industry today requires an understanding of the principles of product led growth Freemium is the comprehensive practical handbook for this unicorn building strategy **Open Source Cloud Computing** Systems: Practices and Paradigms Vaguero, Luis M., Cáceres, Juan, Hierro, Juan J., 2012-01-31 This book bridges the gap between solutions and users needs pertaining to the most relevant open source cloud technologies available today from a practical perspective

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