



NoSQL with MongoDB in 24 Hours, Sams Teach Yourself

By Brad Dayley

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NoSQL database usage is growing at a stunning 50% per year, as organizations discover NoSQL's potential to address even the most challenging Big Data and real-time database problems. Every NoSQL database is different, but one is the most popular by far: MongoDB.

Now, in just 24 lessons of one hour or less, you can learn how to leverage MongoDB's immense power. Each short, easy lesson builds on all that's come before, teaching NoSQL concepts and MongoDB techniques from the ground up. **Sams Teach Yourself NoSQL with MongoDB in 24 Hours** covers all this, and much more:

- Learning how NoSQL is different, when to use it, and when to use traditional RDBMSes instead
- Designing and implementing MongoDB databases of diverse types and sizes
- Storing and interacting with data via Java, PHP, Python, and Node.js/Mongoose
- Choosing the right NoSQL distribution model for your application
- Installing and configuring MongoDB
- Designing MongoDB data models, including collections, indexes, and GridFS
- Balancing consistency, performance, and durability
- Leveraging the immense power of Map-Reduce
- Administering, monitoring, securing, backing up, and repairing MongoDB databases
- Mastering advanced techniques such as sharding and replication
- Optimizing performance

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Editorial Review

From the Back Cover

In just 24 lessons of one hour or less, *Sams Teach Yourself NoSQL with MongoDB in 24 Hours* helps you build fast, efficient big-data and real-time database solutions—even if you have no experience with NoSQL.

This book's step-by-step approach shows you how to design, implement, and optimize NoSQL databases, store and manage data, and handle advanced tasks such as sharding and replication. Every lesson builds on what you've already learned, giving you a solid foundation for leveraging MongoDB's power.

Step-by-step instructions carefully walk you through the most common NoSQL development tasks using MongoDB.

Practical, hands-on examples show you how to apply what you learn.

Quizzes and exercises help you test your knowledge and stretch your skills.

Notes and tips point out shortcuts and solutions.

Learn how to...

- Determine when to use NoSQL, and when to use a traditional RDBMS
- Understand essential MongoDB data structures and design concepts
- Install and configure MongoDB
- Choose the right NoSQL distribution model for your application
- Plan and implement MongoDB databases of diverse types and sizes
- Design MongoDB data models, including collections and indexes
- Create new databases, collections, and indexes
- Master each leading method for storing, finding, and retrieving MongoDB data
- Interact with data via PHP, Python, Java, and Node.js/Mongoose
- Balance consistency, performance, and durability
- Administer, monitor, validate, secure, back up, and repair MongoDB databases
- Master advanced techniques such as sharding and replication
- Implement the GridFS Store to efficiently store and retrieve large data files
- Evaluate queries for optimal performance
- Find and diagnose problems with collections and databases

About the Author

Brad Dayley is a senior software engineer with more than 20 years of experience developing enterprise applications. He has designed and developed large-scale business applications, including SAS applications with NoSQL database back ends and rich Internet web applications as front ends. He is the author of the *jQuery and JavaScript Phrasebook*, *Sams Teach Yourself jQuery and JavaScript in 24 Hours*, and *Node.js, MongoDB and AngularJS Web Development*.

Users Review

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Katie Mueller:

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