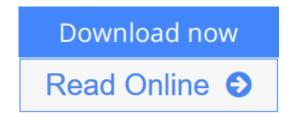


# Big Data: Principles and best practices of scalable realtime data systems

By Nathan Marz, James Warren



**Big Data: Principles and best practices of scalable realtime data systems** By Nathan Marz, James Warren

#### **Summary**

Big Data teaches you to build big data systems using an architecture that takes advantage of clustered hardware along with new tools designed specifically to capture and analyze web-scale data. It describes a scalable, easy-to-understand approach to big data systems that can be built and run by a small team. Following a realistic example, this book guides readers through the theory of big data systems, how to implement them in practice, and how to deploy and operate them once they're built.

Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications.

#### **About the Book**

Web-scale applications like social networks, real-time analytics, or e-commerce sites deal with a lot of data, whose volume and velocity exceed the limits of traditional database systems. These applications require architectures built around clusters of machines to store and process data of any size, or speed. Fortunately, scale and simplicity are not mutually exclusive.

Big Data teaches you to build big data systems using an architecture designed specifically to capture and analyze web-scale data. This book presents the Lambda Architecture, a scalable, easy-to-understand approach that can be built and run by a small team. You'll explore the theory of big data systems and how to implement them in practice. In addition to discovering a general framework for processing big data, you'll learn specific technologies like Hadoop, Storm, and NoSQL databases.

This book requires no previous exposure to large-scale data analysis or NoSQL tools. Familiarity with traditional databases is helpful.

#### What's Inside

- Introduction to big data systems
- Real-time processing of web-scale data
- Tools like Hadoop, Cassandra, and Storm
- Extensions to traditional database skills

#### **About the Authors**

**Nathan Marz** is the creator of Apache Storm and the originator of the Lambda Architecture for big data systems. **James Warren** is an analytics architect with a background in machine learning and scientific computing.

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#### **Editorial Review**

About the Author

**Nathan Marz** is currently working on a new startup. Previously, he was the lead engineer at BackType before being acquired by Twitter in 2011. At Twitter, he started the streaming compute team which provides and develops shared infrastructure to support many critical realtime applications throughout the company. Nathan is the creator of Cascalog and Storm, open-source projects which are relied upon by over 50 companies around the world, including Yahoo!, Twitter, Groupon, The Weather Channel, Taobao, and many more companies.

**James Warren** is an analytics architect at Storm8 with a background in big data processing, machine learning and scientific computing.

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