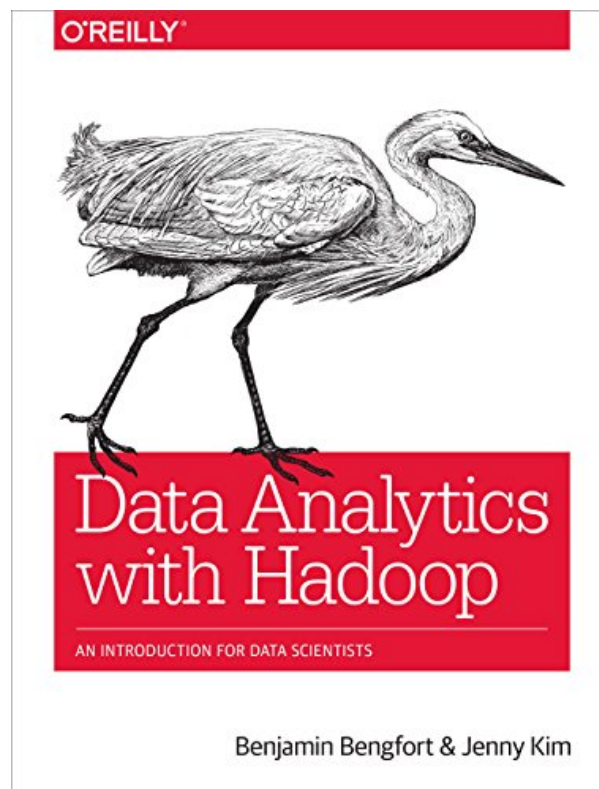


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Data Analytics with Hadoop

AN INTRODUCTION FOR DATA SCIENTISTS

Benjamin Bengfort & Jenny Kim

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About the Author

Benjamin Bengfort is a Data Scientist who lives inside the beltway but ignores politics (the normal business of DC) favoring technology instead. He is currently working to finish his PhD at the University of Maryland where he studies machine learning and distributed computing. His lab does have robots (though this field of study is not one he favors) and, much to his chagrin, they seem to constantly arm said robots with knives and tools; presumably to pursue culinary accolades. Having seen a robot attempt to slice a tomato, Benjamin prefers his own adventures in the kitchen where he specializes in fusion French and Guyanese cuisine as well as BBQ of all types. A professional programmer by trade, a Data Scientist by vocation, Benjamin's writing pursues a diverse range of subjects from Natural Language Processing, to Data Science with Python to analytics with Hadoop and Spark.

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Ready to use statistical and machine-learning techniques across large data sets? This practical guide shows you why the Hadoop ecosystem is perfect for the job. Instead of deployment, operations, or software development usually associated with distributed computing, you'll focus on particular analyses you can build, the data warehousing techniques that Hadoop provides, and higher order data workflows this framework can produce.

Data scientists and analysts will learn how to perform a wide range of techniques, from writing MapReduce and Spark applications with Python to using advanced modeling and data management with Spark MLlib, Hive, and HBase. You'll also learn about the analytical processes and data systems available to build and empower data products that can handle—and actually require—huge amounts of data.

- Understand core concepts behind Hadoop and cluster computing
 - Use design patterns and parallel analytical algorithms to create distributed data analysis jobs
 - Learn about data management, mining, and warehousing in a distributed context using Apache Hive and HBase
 - Use Sqoop and Apache Flume to ingest data from relational databases
 - Program complex Hadoop and Spark applications with Apache Pig and Spark DataFrames
 - Perform machine learning techniques such as classification, clustering, and collaborative filtering with Spark's MLlib
-
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Scalable analytics using the Hadoop ecosystem!

By Konstantinos Xirogiannopoulos

I really like this book. It is a great overview of a plethora of topics around doing scalable data analytics and data science. It is extremely up-to date, going through techniques that have existed for many years now like MapReduce, but also newer systems like Spark, all in the context of the Hadoop eco-system. They go into machine learning techniques, data management, and overall paint a nice picture around what data science is, and why data products are important, while teaching you how to make them!

Every single concept is explained in a clear and concise manner, and wherever details are omitted there is always a citation to a source where the reader can continue reading more about it, which I think is great. Although I wouldn't classify myself as a beginner, I believe it is friendly to both professionals and beginners, as it is centered around python which makes most examples (that are conveniently uploaded in a nice github repository) really easy to simply run and play around with. After describing something, whether that would be a technique for data analysis, or just the in-and outer workings of some analysis platform like HBase, Hive etc, the authors provide examples so that while you're reading about this stuff you can also run it, play around with it and really explore how these systems function; I believe this is a crucial part of familiarizing ones' self with new platforms.

Another thing I enjoyed a lot was the ending of this book. After you really dive into all of these systems and get your feet wet with each one of them, the authors wrap it all up in a nice bow by taking a step back and describing the entire end-to-end process of how you would go about productively using the knowledge you've gotten from this book to build data analytics workflows!

I highly recommend this to anyone who both knows that they want to learn how to deploy scalable analytics workflows in 2016, but also to readers who are simply just curious about data science; this book will suck you in!

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