

# Results



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(1889,stoveha01,152.0)
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# Head First Hadoop Edition

**Leon H. Ginsberg, Christopher R.  
Larrison, Larry Nackerud, John R.  
Barner, Lauren A. Ricciardelli**

## **Head First Hadoop Edition:**

**Hadoop Application Architectures** Mark Grover, Ted Malaska, Jonathan Seidman, Gwen Shapira, 2015-06-30 Get expert guidance on architecting end to end data management solutions with Apache Hadoop While many sources explain how to use various components in the Hadoop ecosystem this practical book takes you through architectural considerations necessary to tie those components together into a complete tailored application based on your particular use case To reinforce those lessons the book s second section provides detailed examples of architectures used in some of the most commonly found Hadoop applications Whether you re designing a new Hadoop application or planning to integrate Hadoop into your existing data infrastructure Hadoop Application Architectures will skillfully guide you through the process This book covers Factors to consider when using Hadoop to store and model data Best practices for moving data in and out of the system Data processing frameworks including MapReduce Spark and Hive Common Hadoop processing patterns such as removing duplicate records and using windowing analytics Giraph GraphX and other tools for large graph processing on Hadoop Using workflow orchestration and scheduling tools such as Apache Oozie Near real time stream processing with Apache Storm Apache Spark Streaming and Apache Flume Architecture examples for clickstream analysis fraud detection and data warehousing

**Big Data for Chimps** Philip (flip) Kromer, Russell Journey, 2015-09-28 Finding patterns in massive event streams can be difficult but learning how to find them doesn t have to be This unique hands on guide shows you how to solve this and many other problems in large scale data processing with simple fun and elegant tools that leverage Apache Hadoop You ll gain a practical actionable view of big data by working with real data and real problems Perfect for beginners this book s approach will also appeal to experienced practitioners who want to brush up on their skills Part I explains how Hadoop and MapReduce work while Part II covers many analytic patterns you can use to process any data As you work through several exercises you ll also learn how to use Apache Pig to process data Learn the necessary mechanics of working with Hadoop including how data and computation move around the cluster Dive into map reduce mechanics and build your first map reduce job in Python Understand how to run chains of map reduce jobs in the form of Pig scripts Use a real world dataset baseball performance statistics throughout the book Work with examples of several analytic patterns and learn when and where you might use them

**HDInsight Essentials - Second Edition** Rajesh Nadipalli, 2015-01-27 If you want to discover one of the latest tools designed to produce stunning Big Data insights this book features everything you need to get to grips with your data Whether you are a data architect developer or a business strategist HDInsight adds value in everything from development administration and reporting

[Microsoft Big Data Solutions](#) Adam Jorgensen, James Rowland-Jones, John Welch, Dan Clark, Christopher Price, Brian Mitchell, 2014-02-24 Tap the power of Big Data with Microsoft technologies Big Data is here and Microsoft s new Big Data platform is a valuable tool to help your company get the very most out of it This timely book shows you how to use HDInsight along with HortonWorks Data Platform for Windows to store manage analyze

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of Elasticsearch and Elasticsearch hadoop in distributed mode advanced configurations along with some common configuration presets you may need for your production deployments You will have Go production checklist and high level view for cluster administration for post production Towards the end you will learn to integrate Elasticsearch with other Hadoop eco system tools such as Pig Hive and Spark Style and approach A concise yet comprehensive approach has been adopted with real time examples to help you grasp the concepts easily     Pro PowerShell for Microsoft Azure Sherif Talaat,2015-11-24 This book is written for Windows professionals who are familiar with PowerShell and want to learn to build operate and administer their Windows workloads in the Microsoft cloud Pro PowerShell for Microsoft Azure is packed with practical examples and scripts with easy to follow explanations for a wide range of day to day needs and essential administration tasks Author Sherif Talaat begins by explaining the fundamental concepts behind the Microsoft Azure platform and how to get started configuring it through PowerShell Readers will find out how to deploy configure and manage the various components of the Azure platform from storage and virtual networks to Azure Web Sites HDInsight clusters and the Azure SQL Database Workload automation scheduling and resource management are covered in depth to help build efficiency in everyday tasks and administrators will gain full control over Azure identity and access rights using Azure Active Directory and Rights Management Services Put your PowerShell skills to good use and ensure that your applications and data are available anywhere at any time with Pro PowerShell for Microsoft Azure What You ll Learn Create and manage virtual networks and VPNs using PowerShell Configure and maintain Azure Storage accounts blobs and containers Provision and manage a redundant Windows or Linux server Deploy and configure your sites in the cloud using Microsoft Azure Web Sites Provision Apache Hadoop clusters in the cloud using Azure HDInsight Deploy configure and manage a Microsoft Azure SQL Database Protect and secure identities and resources with Azure Active Directory and Azure Rights Management Services Who This Book Is For This is book is for the intermediate to advanced Windows professional who is ready to make theleap to the cloud     Programming Hive Edward Capriolo,Dean Wampler,Jason Rutherglen,2012-09-19 Need to move a relational database application to Hadoop This comprehensive guide introduces you to Apache Hive Hadoop s data warehouse infrastructure You ll quickly learn how to use Hive s SQL dialect HiveQL to summarize query and analyze large datasets stored in Hadoop s distributed filesystem This example driven guide shows you how to set up and configure Hive in your environment provides a detailed overview of Hadoop and MapReduce and demonstrates how Hive works within the Hadoop ecosystem You ll also find real world case studies that describe how companies have used Hive to solve unique problems involving petabytes of data Use Hive to create alter and drop databases tables views functions and indexes Customize data formats and storage options from files to external databases Load and extract data from tables and use queries grouping filtering joining and other conventional query methods Gain best practices for creating user defined functions UDFs Learn Hive patterns you should use and anti patterns you should avoid Integrate Hive with other data

processing programs Use storage handlers for NoSQL databases and other datastores Learn the pros and cons of running Hive on Amazon s Elastic MapReduce

**Hadoop: The Definitive Guide** Tom White,2010-09-24 Discover how Apache Hadoop can unleash the power of your data This comprehensive resource shows you how to build and maintain reliable scalable distributed systems with the Hadoop framework an open source implementation of MapReduce the algorithm on which Google built its empire Programmers will find details for analyzing datasets of any size and administrators will learn how to set up and run Hadoop clusters This revised edition covers recent changes to Hadoop including new features such as Hive Sqoop and Avro It also provides illuminating case studies that illustrate how Hadoop is used to solve specific problems Looking to get the most out of your data This is your book Use the Hadoop Distributed File System HDFS for storing large datasets then run distributed computations over those datasets with MapReduce Become familiar with Hadoop s data and I O building blocks for compression data integrity serialization and persistence Discover common pitfalls and advanced features for writing real world MapReduce programs Design build and administer a dedicated Hadoop cluster or run Hadoop in the cloud Use Pig a high level query language for large scale data processing Analyze datasets with Hive Hadoop s data warehousing system Take advantage of HBase Hadoop s database for structured and semi structured data Learn ZooKeeper a toolkit of coordination primitives for building distributed systems Now you have the opportunity to learn about Hadoop from a master not only of the technology but also of common sense and plain talk Doug Cutting Cloudera [Learning Spark](#) Holden Karau,Andy Konwinski,Patrick Wendell,Matei Zaharia,2015-01-28 This book introduces Apache Spark the open source cluster computing system that makes data analytics fast to write and fast to run You ll learn how to express parallel jobs with just a few lines of code and cover applications from simple batch jobs to stream processing and machine learning

**Wireless Algorithms, Systems, and Applications** Kuai Xu,Haojin Zhu,2015-07-31 This book constitutes the proceedings of the 10th International Conference on Wireless Algorithms Systems and Applications WASA 2015 held in Qufu Shandong China in August 2015 The 36 revised full papers presented together with 5 revised short papers and 42 invited papers were carefully reviewed and selected from 133 initial submissions The papers present current trends challenges and state of the art solutions related to various issues in wireless networks Topics of interests include effective and efficient state of the art algorithm design and analysis reliable and secure system development and implementations experimental study and testbed validation and new application exploration in wireless networks

**Enterprise Data Workflows with Cascading** Paco Nathan,2013-07-11 There is an easier way to build Hadoop applications With this hands on book you ll learn how to use Cascading the open source abstraction framework for Hadoop that lets you easily create and manage powerful enterprise grade data processing applications without having to learn the intricacies of MapReduce Working with sample apps based on Java and other JVM languages you ll quickly learn Cascading s streamlined approach to data processing data filtering and workflow optimization This book demonstrates how this framework can help your business extract meaningful

information from large amounts of distributed data Start working on Cascading example projects right away Model and analyze unstructured data in any format from any source Build and test applications with familiar constructs and reusable components Work with the Scalding and Cascalog Domain Specific Languages Easily deploy applications to Hadoop regardless of cluster location or data size Build workflows that integrate several big data frameworks and processes Explore common use cases for Cascading including features and tools that support them Examine a case study that uses a dataset from the Open Data Initiative

**Big Data Analytics with R** Simon Walkowiak, 2016-07-29 Utilize R to uncover hidden patterns in your Big Data About This Book Perform computational analyses on Big Data to generate meaningful results Get a practical knowledge of R programming language while working on Big Data platforms like Hadoop Spark H2O and SQL NoSQL databases Explore fast streaming and scalable data analysis with the most cutting edge technologies in the market Who This Book Is For This book is intended for Data Analysts Scientists Data Engineers Statisticians Researchers who want to integrate R with their current or future Big Data workflows It is assumed that readers have some experience in data analysis and understanding of data management and algorithmic processing of large quantities of data however they may lack specific skills related to R What You Will Learn Learn about current state of Big Data processing using R programming language and its powerful statistical capabilities Deploy Big Data analytics platforms with selected Big Data tools supported by R in a cost effective and time saving manner Apply the R language to real world Big Data problems on a multi node Hadoop cluster e g electricity consumption across various socio demographic indicators and bike share scheme usage Explore the compatibility of R with Hadoop Spark SQL and NoSQL databases and H2O platform In Detail Big Data analytics is the process of examining large and complex data sets that often exceed the computational capabilities R is a leading programming language of data science consisting of powerful functions to tackle all problems related to Big Data processing The book will begin with a brief introduction to the Big Data world and its current industry standards With introduction to the R language and presenting its development structure applications in real world and its shortcomings Book will progress towards revision of major R functions for data management and transformations Readers will be introduced to Cloud based Big Data solutions e g Amazon EC2 instances and Amazon RDS Microsoft Azure and its HDInsight clusters and also provide guidance on R connectivity with relational and non relational databases such as MongoDB and HBase etc It will further expand to include Big Data tools such as Apache Hadoop ecosystem HDFS and MapReduce frameworks Also other R compatible tools such as Apache Spark its machine learning library Spark MLlib as well as H2O Style and approach This book will serve as a practical guide to tackling Big Data problems using R programming language and its statistical environment Each section of the book will present you with concise and easy to follow steps on how to process transform and analyse large data sets

*Analytics for the Internet of Things (IoT)* Andrew Minter, 2017-07-24 Break through the hype and learn how to extract actionable intelligence from the flood of IoT data About This Book Make better business decisions and

acquire greater control of your IoT infrastructure Learn techniques to solve unique problems associated with IoT and examine and analyze data from your IoT devices Uncover the business potential generated by data from IoT devices and bring down business costs Who This Book Is For This book targets developers IoT professionals and those in the field of data science who are trying to solve business problems through IoT devices and would like to analyze IoT data IoT enthusiasts managers and entrepreneurs who would like to make the most of IoT will find this equally useful A prior knowledge of IoT would be helpful but is not necessary Some prior programming experience would be useful What You Will Learn Overcome the challenges IoT data brings to analytics Understand the variety of transmission protocols for IoT along with their strengths and weaknesses Learn how data flows from the IoT device to the final data set Develop techniques to wring value from IoT data Apply geospatial analytics to IoT data Use machine learning as a predictive method on IoT data Implement best strategies to get the most from IoT analytics Master the economics of IoT analytics in order to optimize business value In Detail We start with the perplexing task of extracting value from huge amounts of barely intelligible data The data takes a convoluted route just to be on the servers for analysis but insights can emerge through visualization and statistical modeling techniques You will learn to extract value from IoT big data using multiple analytic techniques Next we review how IoT devices generate data and how the information travels over networks You ll get to know strategies to collect and store the data to optimize the potential for analytics and strategies to handle data quality concerns Cloud resources are a great match for IoT analytics so Amazon Web Services Microsoft Azure and PTC ThingWorx are reviewed in detail next Geospatial analytics is then introduced as a way to leverage location information Combining IoT data with environmental data is also discussed as a way to enhance predictive capability We ll also review the economics of IoT analytics and you ll discover ways to optimize business value By the end of the book you ll know how to handle scale for both data storage and analytics how Apache Spark can be leveraged to handle scalability and how R and Python can be used for analytic modeling Style and approach This book follows a step by step practical approach to combine the power of analytics and IoT and help you get results quickly

**Hadoop** Tom E. White, 2015 Offers information on how to build and maintain reliable scalable distributed systems with Apache Hadoop covering such topics as MapReduce HDFS YARN Avro for data serialization Parquet for nested data and data ingestion tools Flume and Sqoop

**IBM SPSS Modeler Essentials** Keith McCormick, Jesus Salcedo, 2017-12-26 Get to grips with the fundamentals of data mining and predictive analytics with IBM SPSS Modeler About This Book Get up and running with IBM SPSS Modeler without going into too much depth Identify interesting relationships within your data and build effective data mining and predictive analytics solutions A quick easy to follow guide to give you a fundamental understanding of SPSS Modeler written by the best in the business Who This Book Is For This book is ideal for those who are new to SPSS Modeler and want to start using it as quickly as possible without going into too much detail An understanding of basic data mining concepts will be helpful to get the best out of the book What You Will Learn Understand the basics of data

mining and familiarize yourself with Modeler's visual programming interface Import data into Modeler and learn how to properly declare metadata Obtain summary statistics and audit the quality of your data Prepare data for modeling by selecting and sorting cases identifying and removing duplicates combining data files and modifying and creating fields Assess simple relationships using various statistical and graphing techniques Get an overview of the different types of models available in Modeler Build a decision tree model and assess its results Score new data and export predictions In Detail IBM SPSS Modeler allows users to quickly and efficiently use predictive analytics and gain insights from your data With almost 25 years of history Modeler is the most established and comprehensive Data Mining workbench available Since it is popular in corporate settings widely available in university settings and highly compatible with all the latest technologies it is the perfect way to start your Data Science and Machine Learning journey This book takes a detailed step by step approach to introducing data mining using the de facto standard process CRISP DM and Modeler's easy to learn visual programming style You will learn how to read data into Modeler assess data quality prepare your data for modeling find interesting patterns and relationships within your data and export your predictions Using a single case study throughout this intentionally short and focused book sticks to the essentials The authors have drawn upon their decades of teaching thousands of new users to choose those aspects of Modeler that you should learn first so that you get off to a good start using proven best practices This book provides an overview of various popular data modeling techniques and presents a detailed case study of how to use CHAID a decision tree model Assessing a model's performance is as important as building it this book will also show you how to do that Finally you will see how you can score new data and export your predictions By the end of this book you will have a firm understanding of the basics of data mining and how to effectively use Modeler to build predictive models Style and approach This book empowers users to build practical accurate predictive models quickly and intuitively With the support of the advanced analytics users can discover hidden patterns and trends This will help users to understand the factors that influence them enabling you to take advantage of business opportunities and mitigate risks

*Social Work and Science in the 21st Century* Leon H. Ginsberg, Christopher R. Larrison, Larry Nackerud, John R. Barner, Lauren A. Ricciardelli, 2019-03-11 *Social Work and Science in the 21st Century* enhances the inclusion of natural science concepts and knowledge into social work education and practice The book highlights basic scientific theories and ideas in a broad array of natural science fields including chemistry physics astronomy geometry numbers and big data A number of chapters focus on how knowledge from the natural sciences can enhance social work practice in areas as diverse as medicine substance abuse mental health and intellectual and developmental disabilities while other chapters on water human geography climate change execution and the death penalty and the life cycle are designed to highlight the natural science behind social issues The information presented in the book is complex enough to spark the reader's continued interest in knowing more about the natural sciences but basic enough to allow readers with limited understanding of the

natural sciences at both the bachelor s and master s levels to feel comfortable exploring its contents *Learning to Love Data Science* Mike Barlow,2015-10-27 Until recently many people thought big data was a passing fad Data science was an enigmatic term Today big data is taken seriously and data science is considered downright sexy With this anthology of reports from award winning journalist Mike Barlow you ll appreciate how data science is fundamentally altering our world for better and for worse Barlow paints a picture of the emerging data space in broad strokes From new techniques and tools to the use of data for social good you ll find out how far data science reaches With this anthology you ll learn how Analysts can now get results from their data queries in near real time Indie manufacturers are blurring the lines between hardware and software Companies try to balance their desire for rapid innovation with the need to tighten data security Advanced analytics and low cost sensors are transforming equipment maintenance from a cost center to a profit center CIOs have gradually evolved from order takers to business innovators New analytics tools let businesses go beyond data analysis and straight to decision making Mike Barlow is an award winning journalist author and communications strategy consultant Since launching his own firm Cumulus Partners he has represented major organizations in a number of industries

**HBase: The Definitive Guide** Lars George,2011-08-29 If you re looking for a scalable storage solution to accommodate a virtually endless amount of data this book shows you how Apache HBase can fulfill your needs As the open source implementation of Google s BigTable architecture HBase scales to billions of rows and millions of columns while ensuring that write and read performance remain constant Many IT executives are asking pointed questions about HBase This book provides meaningful answers whether you re evaluating this non relational database or planning to put it into practice right away Discover how tight integration with Hadoop makes scalability with HBase easier Distribute large datasets across an inexpensive cluster of commodity servers Access HBase with native Java clients or with gateway servers providing REST Avro or Thrift APIs Get details on HBase s architecture including the storage format write ahead log background processes and more Integrate HBase with Hadoop s MapReduce framework for massively parallelized data processing jobs Learn how to tune clusters design schemas copy tables import bulk data decommission nodes and many other tasks **Apache Spark 2: Data Processing and Real-Time Analytics** Romeo Kienzler,Md. Rezaul Karim,Sridhar Alla,Siamak Amirghodsi,Meenakshi Rajendran,Broderick Hall,Shuen Mei,2018-12-21 Build efficient data flow and machine learning programs with this flexible multi functional open source cluster computing framework Key FeaturesMaster the art of real time big data processing and machine learning Explore a wide range of use cases to analyze large data Discover ways to optimize your work by using many features of Spark 2 x and ScalaBook Description Apache Spark is an in memory cluster based data processing system that provides a wide range of functionalities such as big data processing analytics machine learning and more With this Learning Path you can take your knowledge of Apache Spark to the next level by learning how to expand Spark s functionality and building your own data flow and machine learning programs on this platform You will work with the different modules in

Apache Spark such as interactive querying with Spark SQL using DataFrames and datasets implementing streaming analytics with Spark Streaming and applying machine learning and deep learning techniques on Spark using MLlib and various external tools By the end of this elaborately designed Learning Path you will have all the knowledge you need to master Apache Spark and build your own big data processing and analytics pipeline quickly and without any hassle This Learning Path includes content from the following Packt products Mastering Apache Spark 2 x by Romeo Kienzler Scala and Spark for Big Data Analytics by Md Rezaul Karim Sridhar Alla Apache Spark 2 x Machine Learning Cookbook by Siamak Amirghodsi Meenakshi Rajendran Broderick Hall Shuen Mei Cookbook What you will learn Get to grips with all the features of Apache Spark 2 x Perform highly optimized real time big data processing Use ML and DL techniques with Spark MLlib and third party tools Analyze structured and unstructured data using SparkSQL and GraphX Understand tuning debugging and monitoring of big data applications Build scalable and fault tolerant streaming applications Develop scalable recommendation engines Who this book is for If you are an intermediate level Spark developer looking to master the advanced capabilities and use cases of Apache Spark 2 x this Learning Path is ideal for you Big data professionals who want to learn how to integrate and use the features of Apache Spark and build a strong big data pipeline will also find this Learning Path useful To grasp the concepts explained in this Learning Path you must know the fundamentals of Apache Spark and Scala [Information Systems Design and Intelligent Applications](#) Suresh Chandra Satapathy, Vikrant Bhateja, Radhakrishna Somanah, Xin-She Yang, Roman Senkerik, 2018-12-30 The book gathers a collection of high quality peer reviewed research papers presented at the International Conference on Information System Design and Intelligent Applications INDIA 2018 which was held at the Universite des Mascareignes Mauritius from July 19 to 21 2018 It covers a wide range of topics in computer science and information technology from image processing database applications and data mining to grid and cloud computing bioinformatics and many more The intelligent tools discussed e g swarm intelligence artificial intelligence evolutionary algorithms and bio inspired algorithms are currently being applied to solve challenging problems in various domains

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## **Table of Contents Head First Hadoop Edition**

1. Understanding the eBook Head First Hadoop Edition
  - The Rise of Digital Reading Head First Hadoop Edition
  - Advantages of eBooks Over Traditional Books
2. Identifying Head First Hadoop Edition
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Head First Hadoop Edition
  - User-Friendly Interface
4. Exploring eBook Recommendations from Head First Hadoop Edition
  - Personalized Recommendations
  - Head First Hadoop Edition User Reviews and Ratings
  - Head First Hadoop Edition and Bestseller Lists

5. Accessing Head First Hadoop Edition Free and Paid eBooks
  - Head First Hadoop Edition Public Domain eBooks
  - Head First Hadoop Edition eBook Subscription Services
  - Head First Hadoop Edition Budget-Friendly Options
6. Navigating Head First Hadoop Edition eBook Formats
  - ePub, PDF, MOBI, and More
  - Head First Hadoop Edition Compatibility with Devices
  - Head First Hadoop Edition Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Head First Hadoop Edition
  - Highlighting and Note-Taking Head First Hadoop Edition
  - Interactive Elements Head First Hadoop Edition
8. Staying Engaged with Head First Hadoop Edition
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Head First Hadoop Edition
9. Balancing eBooks and Physical Books Head First Hadoop Edition
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Head First Hadoop Edition
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Head First Hadoop Edition
  - Setting Reading Goals Head First Hadoop Edition
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Head First Hadoop Edition
  - Fact-Checking eBook Content of Head First Hadoop Edition
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

#### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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