

Pro Spark Streaming: The Zen Of Real Time Analytics Using Apache Spark

With the development of computing technologies in today’s modernized world, software packages have become easily accessible. Open source software, specifically, is a popular method for solving certain issues in the field of computer science. One key challenge is analyzing big data due to the high amounts that organizations are processing. Researchers and professionals need research on the foundations of open source software programs and how they can successfully analyze statistical data. Open Source Software for Statistical Analysis of Big Data: Emerging Research and Opportunities provides emerging research exploring the theoretical and practical aspects of cost-free software possibilities for applications within data analysis and statistics with a specific focus on R and Python. Featuring coverage on a broad range of topics such as cluster analysis, time series forecasting, and machine learning, this book is ideally designed for researchers, developers, practitioners, engineers, academicians, scholars, and students who want to more fully understand in a brief and concise format the realm and technologies of open source software for big data and how it has been used to solve large-scale research problems in a multitude of disciplines.

Estamos na era dos dados. Não importa qual seja a sua área de atuação, uma palavra atualmente em evidência é: Big Data. Podemos encontrar casos de uso em que esse conceito permitiu a redução do número de fraudes, redução de custos na produção, eficiência energética, aumento de segurança, entre outros benefícios tão almejados em diversos domínios. Muito embora o interesse esteja em alta, Big Data ainda é um termo incipiente, gerando incertezas sobre sua definição, características, aplicabilidade e desafios. Como obter dados de diferentes fontes? Como extrair valor a partir dos dados? Qual a infraestrutura necessária para criar uma solução de Big Data? Quais habilidades são necessárias para atuar com Big Data em seu projeto? Neste livro, Rosângela Marquesone apresenta as tecnologias e soluções de Big Data, em uma abordagem conceitual que detalha as características e capacidades de cada uma delas. Você verá as principais fases de um projeto de Big Data, desde a captura, o armazenamento, o processamento, análise, até a visualização de dados.

Big Data Analytics with Spark is a step-by-step guide for learning Spark, which is an open-source fast and general-purpose cluster computing framework for large-scale data analysis. You will learn how to use Spark for different types of big data analytics projects, including batch, interactive, graph, and stream data analysis as well as machine learning. In addition, this book will help you become a much sought-after Spark expert. Spark is one of the hottest Big Data technologies. The amount of data generated today by devices, applications and users is exploding. Therefore, there is a critical need for tools that can analyze large-scale data and unlock value from it. Spark is a powerful technology that meets that need. You can, for example, use Spark to perform low latency computations through the use of efficient caching and iterative algorithms; leverage the features of its shell for easy and interactive Data analysis; employ its fast batch processing and low latency features to process your real time data streams and so on. As a result, adoption of Spark is rapidly growing and is replacing Hadoop MapReduce as the technology of choice for big data analytics. This book provides an introduction to Spark and related big-data technologies. It covers Spark core and its add-on libraries, including Spark SQL, Spark Streaming, GraphX, and MLlib. Big Data Analytics with Spark is therefore written for busy professionals who prefer learning a new technology from a consolidated source instead of spending countless hours on the Internet trying to pick bits and pieces from different sources. The book also provides a chapter on Scala, the hottest functional programming language, and the program that underlies Spark. You’ll learn the basics of functional programming in Scala, so that you can write Spark applications in it. What’s more, Big Data Analytics with Spark provides an introduction to other big data technologies that are commonly used along with Spark, like Hive, Avro, Kafka and so on. So the book is self-sufficient; all the technologies that you need to know to use Spark are covered. The only thing that you are expected to know is programming in any language. There is a critical shortage of people with big data expertise, so companies are willing to pay top dollar for people with skills in areas like Spark and Scala. So reading this book and absorbing its principles will provide a boost—possibly a big boost—to your career.

Follows the adventures of Paul Atrides, the son of a betrayed duke given up for dead on a treacherous desert planet and adopted by its fierce, nomadic people, who help him unravel his most unexpected destiny.

With the advancement of statistical methodology inextricably linked to the use of computers, new methodological ideas must be translated into usable code and then numerically evaluated relative to competing procedures. In response to this, Statistical Computing in C++ and R concentrates on the writing of code rather than the development and study of numerical algorithms per se. The book discusses code development in C++ and R and the use of these symbiotic languages in unison. It emphasizes that each offers distinct features that, when used in tandem, can take code writing beyond what can be obtained from either language alone. The text begins with some basics of object-oriented languages, followed by a "boot-camp" on the use of C++ and R. The authors then discuss code development for the solution of specific computational problems that are relevant to statistics including optimization, numerical linear algebra, and random number generation. Later chapters introduce abstract data structures (ADTs) and parallel computing concepts. The appendices cover R and UNIX Shell programming. Features Includes numerous student exercises ranging from elementary to challenging Integrates both C++ and R for the solution of statistical computing problems Uses C++ code in R and R functions in C++ programs Provides downloadable programs, available from the authors’ website The translation of a mathematical problem into its computational analog (or analogs) is a skill that must be learned, like any other, by actively solving relevant problems. The text reveals the basic principles of algorithmic thinking essential to the modern statistician as well as the fundamental skill of communicating with a computer through the use of the computer languages C++ and R. The book lays the foundation for original code development in a research environment.

Distributed Computing and Event Processing using Apache Spark, Flink, Storm, and Kafka

A Practitioner’s Guide to Using Spark for Large Scale Data Analysis

Big Data Cluster Computing in Production

Emerging Research and Opportunities

Técnicas e tecnologias para extração de valor dos dados

Zen Effects

The Life of Alan Watts

Nicholas Allen is not a troublemaker -- he's just creative. When he decides to liven things up in Mrs. Granger's fifth grade language arts class, he comes up with the greatest plan yet. He invents a new word for a pen -- frindle. It doesn't take long

A combination of spiritual insight and outrageous behavior, wisdom and childishness, joyous high spirits and deep loneliness, Alan Watts (1915-1973) touched the lives of many with his teachings. In this penetrating biography, Furlong reveals how Watts was instrumental in introducing Eastern philosophy and religion to Western minds.

Society is now completely driven by data with many industries relying on data to conduct business or basic functions within the organization. With the efficiencias that big data bring to all institutions, data is continuously being collected and analyzed. However, data

sets may be too complex for traditional data-processing, and therefore, different strategies must evolve to solve the issue. The field of big data works as a valuable tool for many different industries. The Research Anthology on Big Data Analytics, Architectures, and Applications is a complete reference source on big data analytics that offers the latest, innovative architectures and frameworks and explores a variety of applications within various industries. Offering an international perspective, the applications discussed within this anthology feature global representation. Covering topics such as advertising curricula, driven supply chain, and smart cities, this research anthology is ideal for data scientists, data analysts, computer engineers, software engineers, technologists, government officials, managers, CEOs, professors, graduate students, researchers, and academicians.

A practical guide to help you tackle different real-time data processing and analytics problems using the best tools for each scenario About This Book Learn about the various challenges in real-time data processing and use the right tools to overcome them This book covers

popular tools and frameworks such as Spark, Flink, and Apache Storm to solve all your distributed processing problems A practical guide filled with examples, tips, and tricks to help you perform efficient Big Data processing in real-time Who This Book Is For If you are a Java developer who would like to be equipped with all the tools required to devise an end-to-end practical solution on real-time data streaming, then this book is for you. Basic knowledge of real-time processing would be helpful, and knowing the fundamentals of Maven, Shell, and Eclipse would be great. What You Will Learn Get an introduction to the established real-time stack Understand the key integration of all the components Get a thorough understanding of the basic building blocks for real-time solution designing Garnish the search and visualization aspects for your real-time solution Get conceptually and practically acquainted with real-time analytics Be well equipped to apply the knowledge and create your own solutions In Detail With the rise of Big Data, there is an increasing need to process large amounts of data continuously, with a shorter turnaround time. Real-time data processing involves continuous input, processing and output of data, with the condition that the time required for processing is as short as possible. This book covers the majority of the existing and evolving open source technology stack for real-time processing and analytics. You will get to know about all the real-time solution aspects, from the source to the presentation to persistence. Through this practical book, you'll be equipped with a clear understanding of how to solve challenges on your own. We'll cover topics such as how to set up components, basic executions, integrations, advanced use cases, alerts, and monitoring. You'll be exposed to the popular tools used in real-time processing today such as Apache Spark, Apache Flink, and Storm. Finally, you will put your knowledge to practical use by implementing all of the techniques in the form of a practical, real-world use case. By the end of this book, you will have a solid understanding of all the aspects of real-time data processing and analytics, and will know how to deploy the solutions in production environments in the best possible manner. Style and Approach In this practical guide to real-time analytics, each chapter begins with a basic high-level concept of the topic, followed by a practical, hands-on implementation of each concept, where you can see the working and execution of it. The book is written in a DIY style, with plenty of practical use cases, well-explained code examples, and relevant screenshots and diagrams.

By introducing in-memory persistent storage, Apache Spark eliminates the need to store intermediate data in filesystems, thereby increasing processing speed by up to 100 times. This book will focus on how to analyze large and complex sets of data. Starting with installing

and configuring Apache Spark with various cluster managers, you will cover setting up development environments. You will then cover various recipes to perform interactive queries using Spark SQL and real-time streaming with various sources such as Twitter Stream and Apache

Kafka. You will then focus on machine learning, including supervised learning, unsupervised learning, and recommendation engine algorithms. After mastering graph processing using GraphX, you will cover various recipes for cluster optimization and troubleshooting.

Idea Man

Homeland

The United States Army and the Forging of a Nation, 1775-1917

American Military History Volume 1

Concepts, Methodologies, Tools, and Applications

A Memoir by the Cofounder of Microsoft

Wishful Drinking

Learn the right cutting-edge skills and knowledge to leverage Spark Streaming to implement a wide array of real-time, streaming applications. This book walks you through end-to-end real-time application development using real-world applications, data, and code. Taking an application-first approach, each chapter introduces use cases from a specific industry and uses publicly available datasets from that domain to unravel the intricacies of production-grade design and implementation. The domains covered in Pro Spark Streaming include social media, the sharing economy, finance, online advertising, telecommunication, and IoT. In the last few years, Spark has become synonymous with big data processing. DStreams enhance the underlying Spark processing engine to support streaming analysis with a novel micro-batch processing model. Pro Spark Streaming by Zubair Nabi will enable you to become a specialist of latency sensitive applications by leveraging the key features of DStreams, micro-batch processing, and functional programming. To this end, the book includes ready-to-deploy examples and actual code. Pro Spark Streaming will act as the bible of Spark Streaming. What You'll Learn Discover Spark Streaming application development and best practices Work with the low-level details of discretized streams Optimize production-grade deployments of Spark Streaming via configuration recipes and instrumentation using Graphite, collectd, and Nagios Ingest data from disparate sources including MQTT, Flume, Kafka, Twitter, and a custom HTTP receiver Integrate and couple with HBase, Cassandra, and Redis Take advantage of design patterns for side-effects and maintaining state across the Spark Streaming micro-batch model Implement real-time and scalable ETL using data frames, SparkSQL, Hive, and SparkR Use streaming machine learning, predictive analytics, and recommendations Mesh batch processing with stream processing via the Lambda architecture Who This Book Is For Data scientists, big data experts, BI analysts, and data architects.

In this unique work, Henry Miller gives an utterly candid and self-revealing account of the reading he did during his formative years.

Das Internet sorgt für ein rasches Wachstum von verfügbaren Daten. Dem „EMC/IDC Digital Universe“ Report nach verdoppelt sich die Menge an Daten alle zwei Jahre. Es werden täglich eine Millionen Uber-Fahrten gebucht, monatlich 10 Milliarden Stunden Netflix-Videos konsumiert und jährlich eine Trillion US-Dollar auf E-Commerce-Webseiten ausgegeben. Dabei spielt der Umgang mit diesen Daten eine große Rolle für den Erfolg dieser Unternehmen. Insbesondere die Echtzeit-Datenanalyse hilft den Unternehmen, Kundenwünsche schnellstmöglich zu erkennen und diese auszuschöpfen. Ein weiterer Faktor des immensen Datenwachstums sind Web 2.0 Plattformen. In diesem Bereich sind die Benutzer der treibende Faktor für die stetig wachsende Datenflut dieser Plattformen, indem sie Beiträge veröffentlichen, Fotos teilen und Videos streamen. Beispielsweise sammelt Twitter 8 Terabyte, Facebook 500 Terabyte und Google 20 Terabyte an benutzergenerierten Daten täglich. Inhalte sind nicht länger statisch, sondern dynamisch. Diese Datenflut gilt es, zu kontrollieren. Unmittelbar nachdem Daten entstehen, haben sie den höchsten Wert. In der heutigen Zeit wird erwartet, Ergebnisse in schnellstmöglicher Zeit bereitzustellen. Analytische Prozesse werden in Minuten, Sekunden oder Bruchteilen von Sekunden durchgeführt, welche früher Monate, Tage oder Stunden gebraucht hätten. Aufgrund dieser Evolution der stetig neu entstehenden Daten müssen Veränderungen in der Art und Weise, wie diese Daten empfangen, transportiert, verarbeitet und analysiert werden, stattfindnen. Die Technologie, die Echtzeit-Datenanalysen durchführt, wird in der vorliegenden Arbeit genauer betrachtet.

By his early thirties, Paul Allen was a world-famous billionaire-and that was just the beginning. In 2007 and 2008, Time named Paul Allen, the cofounder of Microsoft, one of the hundred most influential people in the world. Since he made his fortune, his impact has been felt in science, technology, business, medicine, sports, music, and philanthropy. His passion, curiosity, and intellectual rigor-combined with the resources to launch and support new initiatives-have literally changed the world. In 2009 Allen discovered that he had lymphoma, lending urgency to his desire to share his story for the first time. In this classic memoir, Allen explains how he has solved problems, what he’s learned from his many endeavors-both the triumphs and the failures-and his compelling vision for the future. He reflects candidly on an extraordinary life. The book also features previously untold stories about everything from the true origins of Microsoft to Allen’s role in the dawn of private space travel (with SpaceShipOne) and in discoveries at the frontiers of brain science. With honesty, humor, and insight, Allen tells the story of a life of ideas made real.

Winner of the International Lannan Literary Award for Nonfiction Animal tracks, word magic, the speech of stones, the power of letters, and the taste of the wind all figure prominently in this intellectual tour de force that returns us to our senses and to the sensuous terrain that sustains us. This major work of ecological philosophy startles the senses out of habitual ways of perception. For a thousand generations, human beings viewed themselves as part of the wider community of nature, and they carried on active relationships not only with other people with other animals, plants, and natural objects (including mountains, rivers, winds, and weather patters) that we have only lately come to think of as "inanimate." How, then, did humans come to sever their ancient reciprocity with the natural world? What will it take for us to recover a sustaining relation with the breathing earth? In The Spell of the Sensuous David Abram draws on sources as diverse as the philosophy of Merleau-Ponty, Balinese shamanism, Apache storytelling, and his own experience as an accomplished sleight-of-hand of magician to reveal the subtle dependence of human cognition on the natural environment. He explores the character of perception and excavates the sensual foundations of language, which--even at its most abstract--echoes the calls and cries of the earth. On every page of this lyrical work, Abram weaves his arguments with a passion, a precision, and an intellectual daring that recall such writers as Loren Eiseley, Annie Dillard, and Barry Lopez.

Cognitive Analytics: Concepts, Methodologies, Tools, and Applications

High Performance Spark

Statistical Computing in C++ and R

Perception and Language in a More-Than-Human World

A Novel About the History of Philosophy

Lightning-Fast Big Data Analysis

Big Data Analytics with Spark

Develop applications for the big data landscape with Spark and Hadoop. This book also explains the role of Spark in developing scalable machine learning and analytics applications with Cloud technologies. Beginning Apache Spark 2 gives you an introduction to Apache Spark and shows you how to work with it. Along the way, you’ll discover resilient distributed datasets (RDDs); use Spark SQL for structured data; and learn stream processing and build real-time applications with Spark Structured Streaming. Furthermore, you’ll learn the fundamentals of Spark ML for machine learning and much more. After you read this book, you will have the fundamentals to become proficient in using Apache Spark and know when and how to apply it to your big data applications. What You Will Learn Understand Spark unified data processing platform How to run Spark in Spark Shell or Databricks Use and manipulate RDDs Deal with structured data using Spark SQL through its operations and advanced functions Build real-time applications using Spark Structured Streaming Develop intelligent applications with the Spark Machine Learning library Who This Book Is For Programmers and developers active in big data, Hadoop, and Java but who are new to the Apache Spark platform.

Apache Spark is a fast, scalable, and flexible open source distributed processing engine for big data systems and is one of the most active open source big data projects to date. In just 24 lessons of one hour or less, Sams Teach Yourself Apache Spark in 24 Hours helps you build practical Big Data solutions that leverage Spark’s amazing speed, scalability, simplicity, and versatility. This book’s straightforward, step-by-step approach shows you how to deploy, program, optimize, manage, integrate, and extend Spark—now, and for years to come. You’ll discover how to create powerful solutions encompassing cloud computing, real-time stream processing, machine learning, and more. Every lesson builds on what you’ve already learned, giving you a rock-solid foundation for real-world success. Whether you are a data analyst, data engineer, data scientist, or data steward, learning Spark will help you to advance your career or embark on a new career in the booming area of Big Data. Learn how to

- Discover what Apache Spark does and how it fits into the Big Data landscape
- Deploy and run Spark locally or in the cloud
- Interact with Spark from the shell
- Make the most of the Spark Cluster Architecture
- Develop Spark applications with Scala and functional Python
- Program with the Spark API, including transformations and actions
- Apply practical data engineering/analysis approaches designed for Spark
- Use Resilient Distributed Datasets (RDDs) for caching, persistence, and output
- Optimize Spark solution performance
- Use Spark with SQL (via Spark SQL) and with NoSQL (via Cassandra)
- Leverage cutting-edge functional

programming techniques • *Extend Spark with streaming, R, and Sparkling Water* • *Start building Spark-based machine learning and graph-processing applications* • *Explore advanced messaging technologies, including Kafka* • *Preview and prepare for Spark's next generation of innovations*
Instructions walk you through common questions, issues, and tasks; Q-and-As, Quizzes, and Exercises build and test your knowledge; "Did You Know?" tips offer insider advice and shortcuts; and "Watch Out!" alerts help you avoid pitfalls. By the time you're finished, you'll be comfortable using Apache Spark to solve a wide spectrum of Big Data problems.

American Military History provides the United States Army—in particular, its young officers, NCOs, and cadets—with a comprehensive but brief account of its past. The Center of Military History first published this work in 1956 as a textbook for senior ROTC courses. Since then it has gone through a number of updates and revisions, but the primary intent has remained the same. Support for military history education has always been a principal mission of the Center, and this new edition of an invaluable history furthers that purpose. The history of an active organization tends to expand rapidly as the organization grows larger and more complex. The period since the Vietnam War, at which point the most recent edition ended, has been a significant one for the Army, a busy period of expanding roles and missions and of fundamental organizational changes. In particular, the explosion of missions and deployments since 11 September 2001 has necessitated the creation of additional, open-ended chapters in the story of the U.S. Army in action. This first volume covers the Army's history from its birth in 1775 to the eve of World War I. By 1917, the United States was already a world power. The Army had sent large expeditionary forces beyond the American hemisphere, and at the beginning of the new century Secretary of War Elihu Root had proposed changes and reforms that within a generation would shape the Army of the future. But world war–global war–was still to come. The second volume of this new edition will take up that story and extend it into the twenty-first century and the early years of the war on terrorism and includes an analysis of the wars in Afghanistan and Iraq up to January 2009.

Work with Apache Spark using Scala to deploy and set up single-node, multi-node, and high-availability clusters. This book discusses various components of Spark such as Spark Core, DataFrames, Datasets and SQL, Spark Streaming, Spark MLib, and R on Spark with the help of practical code snippets for each topic. Practical Apache Spark also covers the integration of Apache Spark with Kafka with examples. You'll follow a learn-to-do-by-yourself approach to learning – learn the concepts, practice the code snippets in Scala, and complete the assignments given to get an overall exposure. On completion, you'll have knowledge of the functional programming aspects of Scala, and hands-on expertise in various Spark components. You'll also become familiar with machine learning algorithms with real-time usage. What You Will LearnDiscover the functional programming features of Scala Understand the complete architecture of Spark and its componentsIntegrate Apache Spark with Hive and Kafka Use Spark SQL, DataFrames, and Datasets to process data using traditional SQL queries Work with different machine learning concepts and libraries using Spark's MLib packages Who This Book Is For Developers and professionals who deal with batch and stream data processing.

The experience of modernization -- the dizzying social changes that swept millions of people into the capitalist world -- and modernism in art, literature and architecture are brilliantly integrated in this account.

Zen and the Brain

Spring Integration in Action

Practical Real-time Data Processing and Analytics

Unleashing Large Cluster Analytics in the Cloud

Apache Spark in 24 Hours, Sams Teach Yourself

Open Source Software for Statistical Analysis of Big Data: Emerging Research and Opportunities

Research Anthology on Big Data Analytics, Architectures, and Applications

Pro Spark StreamingThe Zen of Real-Time Analytics Using Apache SparkApress

Summary Spring Integration in Action is a hands-on guide to Spring-based messaging and integration. After addressing the core messaging patterns, such as those used in transformation and routing, the book turns to the adapters that enable integration with external systems. Readers will explore real-world enterprise integration scenarios using JMS, Web Services, file systems, and email. They will also learn about Spring Integration's support for working with XML. The book concludes with a practical guide to advanced topics such as concurrency, performance, system-management, and monitoring. The book features a foreword by Rod Johnson, Founder of the Spring Network. About the Technology Spring Integration extends the Spring Framework to support the patterns described in Gregor Hohpe and Bobby Woolf's Enterprise Integration Patterns. Like the Spring Framework itself, it focuses on developer productivity, making it easier to build, test, and maintain enterprise integration solutions. About the Book Spring Integration in Action is an introduction and guide to enterprise integration and messaging using the Spring Integration framework. The book starts off by reviewing core messaging patterns, such as those used in transformation and routing. It then drills down into real-world enterprise integration scenarios using JMS, Web Services, filesystems, email, and more. You'll find an emphasis on testing, along with practical coverage of topics like concurrency, scheduling, system management, and monitoring. This book is accessible to developers who know Java. Experience with Spring and EIP is helpful but not assumed. Purchase of the print book comes with an offer of a free PDF, ePub, and Kindle eBook from Manning. Also available is all code from the book. What's Inside Realistic examples Expert advice from Spring Integration creators Detailed coverage of Spring Integration 2 features About the Authors Mark Fisher is the Spring Integration founder and project lead. Jonas Partner, Marius Bogoevici, and Iwein Fuld have all been project committers and are recognized experts on Spring and Spring Integration. Table of Contents PART 1 BACKGROUND Introduction to Spring Integration Enterprise integration fundamentals 24 PART 2 MESSAGING Messages and channels Message Endpoints Getting down to business Go beyond sequential processing: routing and filtering Splitting and aggregating messages PART 3 INTEGRATING SYSTEMS Handling messages with XML payloads Spring Integration and the Java Message Service Email-based integration Filesystem integration Spring Integration and web services Chatting and tweeting PART 4 ADVANCED TOPICS Monitoring and management Managing scheduling and concurrency Batch applications and enterprise integration Scaling messaging applications with OSGi Testing

This is the definitive work on the first and greatest of Japan's twentieth-century philosophers, Nishida Kitaro (1870-1945). Interspersed throughout the narrative of Nishida's life and thought is a generous selection of the philosopher's own essays, letters, and short presentations, newly translated into English.

Pollan keeps you turning the pages . . . cleareyed and assured.

New York Times A #1 New York Times Bestseller, New York Times Book Review 10 Best Books of 2018, and New York Times Notable Book A brilliant and brave investigation into the medical and scientific revolution taking place around psychedelic drugs--and the spellbinding story of his own life-changing psychedelic experiences

When Michael Pollan set out to research how LSD and psilocybin (the active ingredient in magic mushrooms) are being used to provide relief to people suffering from difficult-to-treat conditions such as depression, addiction and anxiety, he did not intend to write what is undoubtedly his most personal book. But upon discovering how these remarkable substances are improving the lives not only of the mentally ill but also of healthy people coming to grips with the challenges of everyday life, he decided to explore the landscape of the mind in the first person as well as the third. Thus began a singular adventure into various altered states of consciousness, along with a dive deep into both the latest brain science and the thriving underground community of psychedelic therapists. Pollan sifts the historical record to separate the truth about these mysterious drugs from the myths that have surrounded them since the 1960s, when a handful of psychedelic evangelists inadvertently catalyzed a powerful backlash against what was then a promising field of research. A unique and elegant blend of science, memoir, travel writing, history, and medicine, How to Change Your Mind is a triumph of participatory journalism. By turns dazzling and edifying, it is the gripping account of a journey to an exciting and unexpected new frontier in our understanding of the mind, the self, and our place in the world. The true subject of Pollan's "mental travelogue" is not just psychedelic drugs but also the eternal puzzle of human consciousness and how, in a world that offers us both suffering and joy, we can do our best to be fully present and find meaning in our lives.

Since he began posting in 2003, Dempsey has used his blog to explore nearly every important facet of library technology, from the emergence of Web 2.0 as a concept to open source ILS tools and the push to web-scale library management systems.

Dune (Movie Tie-In)

Fahrenheit 451

Untersuchung und Bewertung cloud-basierter Streaming-Technologien zur Echtzeit-Datenanalyse

The Books in My Life

Sacred Games

Stream Processing for Real Time and Beyond

Best Practices for Scaling and Optimizing Apache Spark

Construct a robust end-to-end solution for analyzing and visualizing streaming data Real-time analytics is the hottest topic in data analytics today. In Real-Time Analytics: Techniques to Analyze and Visualize Streaming Data, expert Byron Ellis teaches data analysts technologies to build an effective real-time analytics platform. This platform can then be used to make sense of the constantly changing data that is beginning to outpace traditional batch-based analysis platforms. The author is among a very few leading experts in the field. He has a prestigious background in research, development, analytics, real-time visualization, and Big Data streaming and is uniquely qualified to help you explore this revolutionary field. Moving from a description of the overall analytic architecture of real-time analytics to using specific tools to obtain targeted results, Real-Time Analytics leverages open source and modern commercial tools to construct robust, efficient systems that can provide real-time analysis in a cost-effective manner. The book includes: A deep discussion of streaming data systems and architectures Instructions for analyzing, storing, and delivering streaming data Tips on aggregating data and working with sets Information on data warehousing options and techniques Real-Time Analytics includes in-depth case studies for website analytics, Big Data, visualizing streaming and mobile data, and mining and visualizing operational data flows. The book's "recipe" layout lets readers quickly learn and implement different techniques. All of the code examples presented in the book, along with their related data sets, are available on the companion website.

An enormously satisfying, exciting and enriching book, Vikram Chandra's novel draws the reader deep into the lives of detective Sartaj Singh and Ganesh Gaitonde, the most wanted gangster in India. Sartaj, the only Sikh inspector in the whole of Mumbai, is used to being identified by his turban, beard and the sharp cut of his trousers. But 'the silky Sikh' is now past forty, his marriage is over and his career prospects are on the slide. When Sartaj gets an anonymous tip off as to the secret hideout of the legendary boss of the G-company, he's determined that he'll be the one to collect the prize. This is a sprawling, epic novel of friendships and betrayals, of terrible violence, of an astonishing modern city and its underworld. Drawing on the best of Victorian fiction, mystery novels, Bollywood movies and Vikram Chandra's years of first hand research on the streets of Mumbai, this novel reads like a potboiling page-turner but resonates with the intelligence and emotional depth of the best of literature.

There’s growing interest in learning how to analyze streaming data in large-scale systems such as web traffic, financial transactions, machine logs, industrial sensors, and many others. But analyzing data streams at scale has been difficult to do well–until now. This practical book delivers a deep introduction to Apache Flink, a highly innovative open source stream processor with a surprising range of capabilities. Authors Ellen Friedman and Kostas Tzoumas show technical and nontechnical readers alike how Flink is engineered to overcome significant tradeoffs that have limited the effectiveness of other approaches to stream processing. You’ll also learn how Flink has the ability to handle both stream and batch data processing with one technology. Learn the consequences of not doing streaming well–in retail and marketing, IoT, telecom, and banking and finance Explore how to design data architecture to gain the best advantage from stream processing Get an overview of Flink’s capabilities and features, along with examples of how companies use Flink, including in production Take a technical dive into Flink, and learn how it handles time and stateful computation Examine how Flink processes both streaming (unbounded) and batch (bounded) data without sacrificing performance

'Wishful Drinking is a touching and incisive account of bipolarity, addiction and motherhood.' Independent 'No motive is pure. No one is good or bad – but a hearty mix of both. And sometimes life actually gives to you by taking away.' Carrie Fisher in Wishful Drinking In Wishful Drinking, Carrie Fisher told the true and intoxicating story of her life with inimitable wit. Born to celebrity parents, she was picked to play a princess in a little movie called Star Wars when only 19 years old. "But it isn't all sweetness and light sabres." Alas, aside from a demanding career and her role as a single mother (not to mention the hyperspace hairdo), Carrie also spends her free time battling addiction and weathering the wild ride of manic depression. It's an incredible tale: from having Elizabeth Taylor as a stepmother, to marrying (and divorcing) Paul Simon, and from having the father of her daughter leave her for a man, to ultimately waking up one morning and finding a friend dead beside her in bed. Carrie Fisher's star-studded career included roles in numerous films such as The Blues Brothers and When Harry Met Sally. She was the author of four bestselling novels, Surrender in the Pink, Delusions of Grandma, The Best Awful and Postcards from the Edge, which was made into a hit film starring Shirley MacLaine and Meryl Streep. Carrie's experience with addiction and mental illness – and her willingness to talk honestly about them – made her a sought-after speaker and respected advocate. She was truly one of the most magical people to walk among us. Further praise for Carrie Fisher:- [Shockaholic] is the finest, funniest chronicler of the maddest celebrity mores.' Sunday Times 'Fisher has a talent for lacerating insight that masquerades as carefree self-deprecation' Los Angeles Times 'She is one of the rare inhabitants of La-La Land who can actually write' New York Times In Cory Doctorow's wildly successful Little Brother, young Marcus Yallow was arbitrarily detained and brutalized by the government in the wake of a terrorist attack on San Francisco–an experience that led him to become a leader of the whole movement of technologically clued-in teenagers, fighting back against the tyrannical security state. A few years later, California's economy collapses, but Marcus's hacktivist past lands him a job as webmaster for a crusading politician who promises reform. Soon his former nemesis Masha emerges from the political underground to gift him with a thumbdrive containing a Wikileaks-style cable-dump of hard evidence of corporate and governmental perfidy. It's incendiary stuff–and if Masha goes missing, Marcus is supposed to release it to the world. Then Marcus sees Masha being kidnapped by the same government agents who detained and tortured Marcus years earlier. Marcus can leak the archive Masha gave him–but he can't admit to being the leaker, because that will cost his employer the election. He's surrounded by friends who remember what he did a few years ago and regard him as a hacker hero. He can't even attend a demonstration without being dragged onstage and handed a mike. He's not at all sure that just dumping the archive onto the Internet, before he's gone through its millions of words, is the right thing to do. Meanwhile, people are beginning to shadow him, people who look like they're used to inflicting pain until they get the answers they want. Fast-moving, passionate, and as current as next week, Homeland is every bit the equal of Little Brother—a paean to activism, to courage, to the drive to make the world a better place. At the Publisher's request, this title is being sold without Digital Rights Management Software (DRM) applied.

Sound Of 1 Hand

Zen and Philosophy

The Network Reshapes the Library

An Intellectual Biography of Nishida Kitaro?

What the New Science of Psychedelics Teaches Us About Consciousness, Dying, Addiction, Depression, and Transcendence

The Spell of the Senuous

Pro Spark Streaming

Analyze vast amounts of data in record time using Apache Spark with Databricks in the Cloud. Learn the fundamentals, and more, of running analytics on large clusters in Azure and AWS, using Apache Spark with Databricks on top. Discover how to squeeze the most value out of your data at a mere fraction of what classical analytics solutions cost, while at the same time getting the results you need, incrementally faster. This book explains how the confluence of these pivotal technologies gives you enormous power, and cheaply, when it comes to huge datasets. You will begin by learning how cloud infrastructure makes it possible to scale your code to large amounts of processing units, without having to pay for the machinery in advance. From there you will learn how Apache Spark, an open source framework, can enable all those CPUs for data analytics use. Finally, you will see how services such as Databricks provide the power of Apache Spark, without you having to know anything about configuring hardware or software. By removing the need for expensive experts and hardware, your resources can instead be allocated to actually finding business value in the data. This book guides you through some advanced topics such as analytics in the cloud, data lakes, data ingestion, architecture, machine learning, and tools, including Apache Spark, Apache Hadoop, Apache Hive, Python, and SQL. Valuable exercises help reinforce what you have learned. What You Will Learn Discover the value of big data analytics that leverage the power of the cloudGet started with Databricks using SQL and Python in either Microsoft Azure or AWSUnderstand the underlying technology, and how the cloud and Apache Spark fit into the bigger picture See how these tools are used in the real world Run basic analytics, including machine learning, on billions of rows at a fraction of a cost or free Who This Book Is For Data engineers, data scientists, and cloud architects who want or need to run advanced analytics in the cloud. It is assumed that the reader has data experience, but perhaps minimal exposure to Apache Spark and Azure Databricks. The book is also recommended for people who want to get started in the analytics field, as it provides a strong foundation.

One day Sophie comes home from school to find two questions in her mail: "Who are you?" and "Where does the world come from?" Before she knows it she is enrolled in a correspondence course with a mysterious philosopher. Thus begins Jostein Gaarder's unique novel, which is not only a mystery, but also a complete and entertaining history of philosophy. Data in all domains is getting bigger. How can you work with it efficiently? Recently updated? This book introduces Apache Spark, the open source cluster computing system that makes data analytics fast to write and fast to run. With Spark, you can tackle big datasets quickly through simple APIs in Python, Java, and Scala. This edition includes new information on Spark SQL, Spark Streaming, setup, and Maven coordinates. Written by the developers of Spark, this book will have data scientists and engineers up and running in no time. 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. Quickly dive into Spark capabilities such as distributed datasets, in-memory caching, and the interactive shell Leverage Spark's powerful built-in libraries, including Spark SQL, Spark Streaming, and MLib Use one programming paradigm instead of mixing and matching tools like Hive, Hadoop, Mahout, and Storm Learn how to deploy interactive, batch, and streaming applications Connect to data sources including HDFS, Hive, JSON, and S3 Master advanced topics like data partitioning and shared variables

Due to the growing use of web applications and communication devices, the use of data has increased throughout various industries, including business and healthcare. It is necessary to develop specific software programs that can analyze and interpret large amounts of data quickly in order to ensure adequate usage and predictive results. Cognitive Analytics: Concepts, Methodologies, Tools, and Applications provides emerging perspectives on the theoretical and practical aspects of data analysis tools and techniques. It also examines the incorporation of pattern management as well as decision-making and prediction processes through the use of data management and analysis. Highlighting a range of topics such as natural language processing, big data, and pattern recognition, this multi-volume book is ideally designed for information technology professionals, software developers, data analysts, graduate-level students, researchers, computer engineers, software engineers, IT specialists, and academicians.

A totalitarian regime has ordered all books to be destroyed, but one of the book burners suddenly realizes their merit.

Beginning Apache Spark 2
Toward an Understanding of Meditation and Consciousness
With Resilient Distributed Datasets, Spark SQL, Structured Streaming and Spark Machine Learning library
Learning Spark
Big Data
Introduction to Apache Flink
How to Change Your Mind

A neuroscientist and Zen practitioner interweaves the latest research on the brain with his personal narrative of Zen. Aldous Huxley called humankind's basic trend toward spiritual growth the "perennial philosophy." In the view of James Austin, the trend implies a "perennial psychophysiology"—because awakening, or enlightenment, occurs only when the human brain undergoes substantial changes. What are the peak experiences of enlightenment? How could these states profoundly enhance, and yet simplify, the workings of the brain? Zen and the Brain presents the latest evidence. In this book Zen Buddhism becomes the opening wedge for an extraordinarily wide-ranging exploration of consciousness. In order to understand which brain mechanisms produce Zen states, one needs some understanding of the anatomy, physiology, and chemistry of the brain. Austin, both a neurologist and a Zen practitioner, interweaves the most recent brain research with the personal narrative of his Zen experiences. The science is both inclusive and rigorous; the Zen sections are clear and evocative. Along the way, Austin examines such topics as similar states in other disciplines and religions, sleep and dreams, mental illness, consciousness-altering drugs, and the social consequences of the advanced stage of ongoing enlightenment.

When The Sound of the One Hand came out in Japan in 1916 it caused a scandal. Zen was a secretive practice, its wisdom relayed from master to novice in strictest privacy. That a handbook existed recording not only the riddling koans that are central to Zen teaching but also detailing the answers to them seemed to mark Zen as rote, not revelatory. For all that, The Sound of the One Hand opens the door to Zen like no other book. Including koans that go back to the master who first brought the koan teaching method from China to Japan in the eighteenth century, this book offers, in the words of the translator, editor, and Zen initiate Yoel Hoffmann, the clearest, most detailed, and most correct picture of Zen that can be found. What we have here is an extraordinary introduction to Zen thought as lived thought, a treasury of problems, paradoxes, and performance that will appeal to artists, writers, and philosophers as well as Buddhists and students of religion."

The professional programmer's Deitel® guide to Python® with introductory artificial intelligence case studies Written for programmers with a background in another high-level language, Python for Programmers uses hands-on instruction to teach today's most compelling, leading-edge computing technologies and programming in Python—one of the world's most popular and fastest-growing languages. Please read the Table of Contents diagram inside the front cover and the Preface for more details. In the context of 500+, real-world examples ranging from individual snippets to 40 large scripts and full implementation case studies, you'll use the interactive IPython interpreter with code in Jupyter Notebooks to quickly master the latest Python coding idioms. After covering Python Chapters 1-5 and a few key parts of Chapters 6-7, you'll be able to handle significant portions of the hands-on introductory AI case studies in Chapters 11-16, which are loaded with cool, powerful, contemporary examples. These include natural language processing, data mining Twitter® for sentiment analysis, cognitive computing with IBM® Watson™, supervised machine learning with classification and regression, unsupervised machine learning with clustering, computer vision through deep learning and convolutional neural networks, deep learning with recurrent neural networks, big data with Hadoop®, Spark™ and NoSQL databases, the Internet of Things and more. You'll also work directly or indirectly with cloud-based services, including Twitter, Google Translate™, IBM Watson, Microsoft® Azure®, OpenMapQuest, PubNub and more. Features 500+ hands-on, real-world, live-code examples from snippets to case studies IPython + code in Jupyter® Notebooks Library-focused: Uses Python Standard Library and data science libraries to accomplish significant tasks with minimal code Rich Python coverage: Control statements, functions, strings, files, JSON serialization, CSV, exceptions Procedural, functional-style and object-oriented programming Collections: Lists, tuples, dictionaries, sets, NumPy arrays, pandas Series & DataFrames Static, dynamic and interactive visualizations Data experiences with real-world datasets and data sources Intro to Data Science sections: AI, basic stats, simulation, animation, random variables, data wrangling, regression AI, big data and cloud data science case studies: NLP, data mining Twitter®, IBM® Watson™, machine learning, deep learning, computer vision, Hadoop®, Spark™, NoSQL, IoT Open-source libraries: NumPy, pandas, Matplotlib, Seaborn, Folium, SciPy, NLTK, TextBlob, spaCy, Textatistic, Tweepy, scikit-learn®, Keras and more Accompanying code examples are available here: http://ptgmedia.pearsoncmg.com/imprint_downloads/informat/bookreg/9780135224335/9780135224335_examples.zip. Register your product for convenient access to downloads, updates, and/or corrections as they become available. See inside book for more information.

Apache Spark is amazing when everything clicks. But if you haven't seen the performance improvements you expected, or still don't feel confident enough to use Spark in production, this practical book is for you. Authors Holden Karau and Rachel Warren demonstrate performance optimizations to help your Spark queries run faster and handle larger data sizes, while using fewer resources. Ideal for software engineers, data engineers, developers, and system administrators working with large-scale data applications, this book describes techniques that can reduce data infrastructure costs and developer hours. Not only will you gain a more comprehensive understanding of Spark, you'll also learn how to make it sing. With this book, you'll explore: How Spark SQL's new interfaces improve performance over SQL's RDD data structure The choice between data joins in Core Spark and Spark SQL Techniques for getting the most out of standard RDD transformations How to work around performance issues in Spark's key/value pair paradigm Writing high-performance Spark code without Scala or the JVM How to test for functionality and performance when applying suggested improvements Using Spark MLlib and Spark ML machine learning libraries Spark's Streaming components and external community packages

Production-targeted Spark guidance with real-world use cases Spark: Big Data Cluster Computing in Production goes beyond general Spark overviews to provide targeted guidance toward using lightning-fast big-data clustering in production. Written by an expert team well-known in the big data community, this book walks you through the challenges in moving from proof-of-concept or demo Spark applications to live Spark in production. Real use cases provide deep insight into common problems, limitations, challenges, and opportunities, while expert tips and tricks help you get the most out of Spark performance. Coverage includes Spark SQL, Tachyon, Kerberos, ML Lib, YARN, and Mesos, with clear, actionable guidance on resource scheduling, db connectors, streaming, security, and much more. Spark has become the tool of choice for many Big Data problems, with more active contributors than any other Apache Software project. General introductory books abound, but this book is the first to provide deep insight and real-world advice on using Spark in production. Specific guidance, expert tips, and invaluable foresight make this guide an incredibly useful resource for real production settings. Review Spark hardware requirements and estimate cluster size Gain insight from real-world production use cases Tighten security, schedule resources, and fine-tune performance Overcome common problems encountered using Spark in production Spark works with other big data tools including MapReduce and Hadoop, and uses languages you already know like Java, Scala, Python, and R. Lightning speed makes Spark too good to pass up, but understanding limitations and challenges in advance goes a long way toward easing actual production implementation. Spark: Big Data Cluster Computing in Production tells you everything you need to know, with real-world production insight and expert guidance, tips, and tricks.

Python for Programmers
All that is Solid Melts Into Air
Beginning Apache Spark Using Azure Databricks
Techniques to Analyze and Visualize Streaming Data
with Big Data and Artificial Intelligence Case Studies
Using the Scala API

First published in 2000. Routledge is an imprint of Taylor & Francis, an informa company.
Spark
Frindle
Practical Apache Spark
Real-Time Analytics
Spark Cookbook
The Zen of Real-Time Analytics Using Apache Spark
Lorcan Dempsey on Libraries, Services and Networks