Spark Phone Guide

SPARK 2014 is a programming language and a set of verification tools designed to meet the needs of high-assurance software development. SPARK 2014 is based on Ada 2012, both subsetting the language to remove features that defy verification, but also extending the system of contracts and aspects to support modular, formal verification. This manual is available online for free at adacore.com. This manual is printed in grayscale.

Get ready to unlock the power of your data. With the fourth edition of this comprehensive guide, you'll learn how to build and maintain reliable, scalable, distributed systems with Apache Hadoop. This book is ideal for programmers looking to analyze datasets of any size, and for administrators who want to set up and run Hadoop clusters. Using Hadoop 2 exclusively, author Tom White presents new chapters on YARN and several Hadoop-related projects such as Parquet, Flume, Crunch, and Spark. You'll learn about recent changes to Hadoop, and explore new case studies on Hadoop's role in healthcare systems and genomics data processing. Learn fundamental components such as MapReduce, HDFS, and YARN Explore MapReduce in depth, including steps for developing applications with it Set up and maintain a Hadoop cluster running HDFS and MapReduce on YARN Learn two data formats: Avro for data serialization and Parquet for nested data Use data ingestion tools such as Flume (for streaming data) and Sqoop (for bulk data transfer) Understand how high-level data processing tools like Pig, Hive, Crunch, and Spark work with Hadoop Learn the HBase distributed database and the ZooKeeper distributed configuration service

The Rough Guide Snapshot to Fiordland and the south is the ultimate travel guide to New Zealand's dramatic southern tip, packed with reliable information. There's comprehensive coverage of all the highlights of this breathtaking region, from relaxing on the shores of Lake Te Anau to driving the Southern Scenic Route. Detailed maps and up-to-date listings pinpoint the best cafés, restaurants, hotels, shops and bars, ensuring you have the most enjoyable trip possible. The Rough Guide Snapshot to Fiordland and the south covers Dunedin, the Otago Peninsula, Invercargill, Stewart Island, Te Anau, Milford Sound and the Milford Track, Lake Manapouri, Doubtful Sound, Taieri Gorge, the Southern Scenic Route and the Hump Ridge Track. Also published as part of The Rough Guide to New Zealand. The Rough Guide Snapshot to Fiordland and the south is equivalent to 128 printed pages.

#1 NEW YORK TIMES BESTSELLER • The author of Small Great Things returns with a powerful and provocative new novel about ordinary lives that intersect during a heart-stopping crisis. "Picoult at her fearless best . . . Timely, balanced and certain to inspire debate."—The Washington Post The warm fall day starts like any other at the Center—a women's reproductive health services clinic—its staff offering care to anyone who passes through its doors. Then, in late morning, a desperate and distraught gunman bursts in and opens fire, taking all inside hostage. After rushing to the scene, Hugh McElroy, a police hostage negotiator, sets up a perimeter and begins making a plan to communicate with the gunman. As his phone vibrates with incoming text messages he glances at it and, to his horror, finds out that his fifteen-year-old daughter, Wren, is inside the clinic. But Wren is not alone. She will share the next and tensest few hours of her young life with a cast of unforgettable characters: A nurse who calms her own panic in order to save the life of a wounded woman. A doctor who does his work not in spite of his faith but because of it, and who will find that faith tested as never before. A pro-life protester, disguised as a patient, who now stands in the crosshairs of the same rage she herself has felt. A young woman who has come to terminate her pregnancy. And the disturbed individual himself, vowing to be heard. Told in a daring and enthralling narrative structure that counts backward through the hours of the standoff, this is a story that traces its way back to what brought each of these very different individuals to the same place on this fateful day. One of the most fearless writers of our time, Jodi Picoult tackles a complicated issue in this gripping and nuanced novel. How do we balance the rights of pregnant women with the rights of the unborn they carry? What does it mean to be a good parent? A Spark of Light will inspire debate, conversation . . . and, hopefully, understanding. Praise for A Spark of Light "This is Jodi Picoult at her best: tackling an emotional hot-button issue and putting a human face on it."—People "Told backward and hour by hour, Jodi Picoult's compelling narrative deftly explores controversial social issues."—Us Weekly

In this practical book, four Cloudera data scientists present a set of self-contained patterns for performing large-scale data analysis with Spark. The authors bring Spark, statistical methods, and real-world data sets together to teach you how to approach analytics problems by example. You'll start with an introduction to Spark and its ecosystem, and then dive into patterns that apply common techniques—classification, collaborative filtering, and anomaly detection among others—to fields such as genomics, security, and finance. If you have an entry-level understanding of machine learning and statistics, and you program in Java, Python, or Scala, you'll find these patterns useful for working on your own data applications. Patterns include: Recommending music and the Audioscrobbler data set Predicting forest cover with decision trees Anomaly detection in network traffic with K-means clustering Understanding Wikipedia with Latent Semantic Analysis Analyzing co-occurrence networks with GraphX Geospatial and temporal data analysis on the New York City Taxi Trips data Estimating financial risk through Monte Carlo simulation Analyzing genomics data and the BDG project Analyzing neuroimaging data with PySpark and Thunder

The New Zealand 2017 Travel Guide is the most up-to-date, reliable and complete guide to this wonderful place. Travelers will find everything they need for an unforgettable visit presented in a convenient and easy-to-use format. Includes quick information on planning a visit, navigating the location, experiencing New Zealand culture and exploring the beauty of New Zealand. New Zealand is a country in the southwestern Pacific Ocean consisting of 2 main islands, both marked by volcanoes and glaciation. Capital Wellington, on the North Island, is home to Te Papa Tongarewa, the expansive national museum. Wellington's dramatic Mt. Victoria and the South Island's Fiordland and Southern Lakes stood in for mythical Middle Earth in Peter Jackson's "Lord of the Rings" films.

Partitioning is one of the basic building blocks on which the Spark framework has been built. Partitioning at various stages of your program plays a very important role in ensuring the reliability, scalability and efficiency of the programs. In fact, just setting the right partitioning across various stages, lot of spark programs can be optimized right away.This book would assist you to understand the various aspects of Spark Partitioning in depth. Armed with the knowledge gained from the book, you would be able to set right partitioning in your Spark Jobs for large Datasets.

The Sexual Spark is a thoughtful, user friendly and common sense guide to essential exercises meant to reignite passion in the bedroom. It is perfect for any and all couples or individuals, young or older, happy or struggling sexually, straight or gay. It will serve to complement those already in counseling, self help minded, or curious and adventurous. Health care professionals will find this an invaluable tool as well. This book is written by two gynecologists and nationally known experts in female sexual health and medical sex therapy.

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.

This book constitutes the refereed proceedings of the Third International Workshop and Tutorial, FMTea 2019, Held as Part of the Third World Congress on Formal Methods, FM 2019, Porto, Portugal, October 2019. The 14 full papers presented together with 3 abstract papers were carefully reviewed and selected from 22 submissions. The papers are organized in topical sections named: Tutorial lectures; Teaching Program Verification; Teaching Program Development; and Effective Teaching Techniques.

Apple iPhone is appreciated worldwide for Its Style, Ease of Use, and High Technology Brand. Do You Used to "Think Different"? Explore New Flagships of Apple - iPhone12 and iPhone PRO - in a Detailed Review of All Peculiarities and Features of These Models! Did you know that with iPhone12 you get everything at once - software consistency and forethought, superior performance and long-term support? It's possible that Apple isn't perfect at absolutely everything. But none of the manufacturers offer the same customer service as this company and the same approach to customers. The Apple brand creates products that customers love. Its marketing has already become the standard for companies seeking global reach ? marketing built on simplicity. That is why, even for the followers of other brands, it will be interesting to know what determines Apple's success. Smartphone users argue about what is better ? iOS or Android. To make this choice for yourself, you need complete information: a book iPhone 12, iPhone PRO, and iPhone PRO Max User Guide by Simply your Guide will take you through the benefits of Apple's operating system in the brand's latest flagship. In this simple and detailed guide, you will: Explore what is the Big Difference – a groundwork of the Apple brand Know new features of innovative IoS14 - expanded functionality of the iPhone, new widgets, and other features Understand expediency of missing Home button – simplification and acceleration of control Master Apple Animoji – create own memoji and send cute emojis to everyone Get to know important tips and tricks - to enhance your enjoyment of using the new iPhone model And so much more valuable information and tips! Not everyone comprehend that Android is not a smartphone, but the platform that many modern smartphones use, and the iPhone is the very smartphone that uses the iOS platform. Both platforms are recognized by the audience, so let's try to gain insight into this issue. Why not explore these innovative products of famous brand with "iPhone 12, iPhone PRO, and iPhone PRO Max User Guide: The Complete Step by Step Manual to Master"? Scroll up, Click on "Buy Now with 1-Click", and Grab a Copy Today!

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

Textbooks are symbols of centuries-old education. They're often outdated as soon as they hit students' desks. Acting "by the textbook" implies compliance and a lack of creativity. It's time to ditch those textbooks--and those textbook assumptions about learning In Ditch That Textbook, teacher and blogger Matt Miller encourages educators to throw out meaningless, pedestrian teaching and learning practices. He empowers them to evolve and improve on old, standard, teaching methods. Ditch That Textbook is a support system, toolbox, and manifesto to help educators free their teaching and revolutionize their classrooms.

In her own singularly beautiful style, Newbery Medal winner Sharon Creech intricately weaves together two tales, one funny, one bittersweet, to create a heartwarming, compelling, and utterly moving story of love, loss, and the complexity of human emotion. Thirteen-year-old Salamanca Tree Hiddle, proud of her country roots and the "Indian-ness in her blood," travels from Ohio to Idaho with her eccentric grandparents. Along the way, she tells them of the story of Phoebe Winterbottom, who received mysterious messages, who met a "potential lunatic," and whose

mother disappeared. As Sal entertains her grandparents with Phoebe's outrageous story, her own story begins to unfold—the story of a thirteen-year-old girl whose only wish is to be reunited with her missing mother.

The Rough Guide to New Zealand is the ultimate guide to this most beautiful of countries. Packed with detailed accounts, crystal-clear maps and stunning full-colour photographs, this new edition brings New Zealand's myriad attractions to life, from the North Island's white-sand beaches and kauri trees to the brooding fiords and penguin colonies of the south. There's insightful coverage on the country's iconic landmarks right through to secluded hot pools and how to pick the best cafés in Wellington, plus expert guidance on everything from Maori culture to multi-day hikes. Author picks and insider tips give you the scoop on the best accommodation for every budget, how to track down Marlborough's tastiest Sauvignon Blancs and where the most delectable Maori hangi can be found.

In this insightful guide Dr. Carl walks you through awakening the Spark of Spirit within you. These Sparks go by many different names. "Spark of Spirit", "Spirit Guides", "Devine Inspiration", "Intuition", "Guardian Angel", "Gut Instinct" it really doesn't matter what you call it, but it exists. Our Sparks are with us and there primary job is to help and protect us. To help us in order to live the best life that we can. They will help and guide us in our pursuit of the life that we desire. With this handy guide you too can learn about tapping into the resources of the universe and communicating with your very own Spirit Guide. As Dr. Carl uncovers the answers to the following questions.What exactly is a Spark of Spirit or Spirit Guide?What can and will your spirit guide do for you?How to determine the difference between a real Spirit Guide and the imposter?How to prepare for your spiritual awakening?How can you make a connection with your Spirit Guide?What are the signs and signals of a true connection?How to interpret those signs and signals?The unlimited possibilities of dealing with your Spirit Guide?And he closes this book with his motivational charge.Armed with this information you too can make contact with your very own Spark of Spirit, and access all the information that they hold for you.

SPARK 2014 is a programming language and a set of verification tools designed to meet the needs of high-assurance software development. SPARK 2014 is based on Ada 2012, both subsetting the language to remove features that defy verification, but also extending the system of contracts and aspects to support modular, formal verification. The new aspects support abstraction and refinement and facilitate deep static analysis to be performed including flow analysis and formal verification of an implementation against a specification. SPARK 2014 is a much larger and more flexible language than its predecessor SPARK 2005. The language can be configured to suit a number of application domains and standards, from server-class high-assurance systems (such as air-traffic management applications), to embedded, hard real-time, critical systems (such as avionic systems complying with DO-178C Level A). A major feature of SPARK 2014 is the support for a mixture of proof and other verification methods such as testing, which facilitates in particular the use of unit proof in place of unit testing; an approach now formalized in DO-178C and the DO-333 formal methods supplement. Certain units may be formally proven and other units validated through testing.

This book helps you to understand Snowflake's unique architecture and ecosystem that places it at the forefront of cloud data warehouses. The recipes present in this book will enable you to develop proficiency in managing data on Snowflake and learn Snowflake's novel features such as data sharing, cloning, and time travel.

Data is bigger, arrives faster, and comes in a variety of formats—and it all needs to be processed at scale for analytics or machine learning. But how can you process such varied workloads efficiently? Enter Apache Spark. Updated to include Spark 3.0, this second edition shows data engineers and data scientists why structure and unification in Spark matters. Specifically, this book explains how to perform simple and complex data analytics and employ machine learning algorithms. Through step-by-step walk-throughs, code snippets, and notebooks, you'll be able to: Learn Python, SQL, Scala, or Java high-level Structured APIs Understand Spark operations and SQL Engine Inspect, tune, and debug Spark operations with Spark configurations and Spark UI Connect to data sources: JSON, Parquet, CSV, Avro, ORC, Hive, S3, or Kafka Perform analytics on batch and streaming data using Structured Streaming Build reliable data pipelines with open source Delta Lake and Spark Develop machine learning pipelines with MLlib and productionize models using MLflow

Learn about the fastest-growing open source project in the world, and find out how it revolutionizes big data analytics About This Book Exclusive guide that covers how to get up and running with fast data processing using Apache Spark Explore and exploit various possibilities with Apache Spark using real-world use cases in this book Want to perform efficient data processing at real time? This book will be your one-stop solution. Who This Book Is For This guide appeals to big data engineers, analysts, architects, software engineers, even technical managers who need to perform efficient data processing on Hadoop at real time. Basic familiarity with Java or Scala will be helpful. The assumption is that readers will be from a mixed background, but would be typically people with background in engineering/data science with no prior Spark experience and want to understand how Spark can help them on their analytics journey. What You Will Learn Get an overview of big data analytics and its importance for organizations and data professionals Delve into Spark to see how it is different from existing processing platforms Understand the intricacies of various file formats, and how to process them with Apache Spark. Realize how to deploy Spark with YARN, MESOS or a Stand-alone cluster manager. Learn the concepts of Spark SQL, SchemaRDD, Caching and working with Hive and Parquet file formats Understand the architecture of Spark MLLib while discussing some of the off-the-shelf algorithms that come with Spark. Introduce yourself to the deployment and usage of SparkR. Walk through the importance of Graph computation and the graph processing systems available in the market Check the real world example of Spark by building a recommendation engine with Spark using ALS. Use a Telco data set, to predict customer churn using Random Forests. In Detail Spark juggernaut keeps on rolling and getting more and more momentum each day. Spark provides key capabilities in the form of Spark SQL, Spark Streaming, Spark ML and Graph X all accessible via Java, Scala, Python and R. Deploying the key capabilities is crucial whether it is on a Standalone framework or as a part of existing Hadoop installation and configuring with Yarn and Mesos. The next part of the journey after installation is using key components, APIs, Clustering, machine learning APIs, data pipelines, parallel programming. It is important to understand why each framework component is key, how widely it is being used, its stability and pertinent use cases. Once we understand the individual components, we will take a couple of real life advanced analytics examples such as 'Building a Recommendation system', 'Predicting customer churn' and so on. The objective of these real life examples is to give the reader confidence of using Spark for real-world problems. Style and approach With the help of practical examples and real-world use cases, this guide will take you from scratch to building efficient data applications using Apache Spark. You will learn all about this excellent data processing engine in a step-by-step manner, taking one aspect of it at a time. This highly practical guide will include how to work with data pipelines, dataframes, clustering, SparkSQL, parallel programming, and such insightful topics with the help of real-world use cases.

We all have a bit of creativity inside us, waiting to burn brighter. Sometimes all we need is encouragement. At other times, we need skills or know-how. And still at other times, what we need most is the chance to explore our interests, make mistakes, and have fun. This fill-in-the-blank, do-it-yourself guidebook will give you all these things and more as you discover what it means to be creative.

The Rough Guide to New Zealand is the definitive guide to the world's adventure capital. Detailed accounts of every attraction, along with crystal-clear maps and plans, will show you the very best New

Zealand has to offer - from the white sandy beaches and vast kauri trees in the north to the hairline fiords and penguin colonies in the south. Expert writers give you the tips you need for experiencing Maori culture and food, striking out on multi-day hikes, or tracking down Marlborough's tastiest sauvignon blancs. At every point, The Rough Guide to New Zealand steers you to little-known sights, like secluded hot pools, as well as popular places to hang out, such as Wellington's best cafés. Insider tips, planning itineraries, and author picks give you the inside scoop on the best accommodations across every price range. Make the most of your time with The Rough Guide to New Zealand.

Before there was Lois Lowry’s The Giver or M. T. Anderson’s Feed, there was Robert Cormier’s I Am the Cheese, a subversive classic that broke new ground for YA literature. A boy’s search for his father becomes a desperate journey to unlock a secret past. But the past must not be remembered if the boy is to survive. As he searches for the truth that hovers at the edge of his mind, the boy—and readers—arrive at a shattering conclusion. “An absorbing, even brilliant job. The book is assembled in mosaic fashion: a tiny chip here, a chip there. . . . Everything is related to something else; everything builds and builds to a fearsome climax. . . . [Cormier] has the knack of making horror out of the ordinary, as the masters of suspense know how to do.”—The New York Times Book Review “A horrifying tale of government corruption, espionage, and counter espionage told by an innocent young victim. . . . The buildup of suspense is terrific.”—School Library Journal, starred review An ALA Notable Children’s Book A School Library Journal Best Book of the Year A Horn Book Fanfare A Library of Congress Children’s Book of the Year A Colorado Blue Spruce Young Adult Book Award Nominee

Jonathan Safran Foer emerged as one of the most original writers of his generation with his best-selling debut novel, Everything Is Illuminated. Now, with humor, tenderness, and awe, he confronts the traumas of our recent history. What he discovers is solace in that most human quality, imagination. Meet Oskar Schell, an inventor, Francophile, tambourine player, Shakespearean actor, jeweler, pacifist, correspondent with Stephen Hawking and Ringo Starr. He is nine years old. And he is on an urgent, secret search through the five boroughs of New York. His mission is to find the lock that fits a mysterious key belonging to his father, who died in the World Trade Center on 9/11. An inspired innocent, Oskar is alternately endearing, exasperating, and hilarious as he careens from Central Park to Coney Island to Harlem on his search. Along the way he is always dreaming up inventions to keep those he loves safe from harm. What about a birdseed shirt to let you fly away? What if you could actually hear everyone's heartbeat? His goal is hopeful, but the past speaks a loud warning in stories of those who've lost loved ones before. As Oskar roams New York, he encounters a motley assortment of humanity who are all survivors in their own way. He befriends a 103-year-old war reporter, a tour guide who never leaves the Empire State Building, and lovers enraptured or scorned. Ultimately, Oskar ends his journey where it began, at his father's grave. But now he is accompanied by the silent stranger who has been renting the spare room of his grandmother's apartment. They are there to dig up his father's empty coffin.

Combine advanced analytics including Machine Learning, Deep Learning Neural Networks and Natural Language Processing with modern scalable technologies including Apache Spark to derive actionable insights from Big Data in real-time Key Features Make a hands-on start in the fields of Big Data, Distributed Technologies and Machine Learning Learn how to design, develop and interpret the results of common Machine Learning algorithms Uncover hidden patterns in your data in order to derive real actionable insights and business value Book Description Every person and every organization in the world manages data, whether they realize it or not. Data is used to describe the world around us and can be used for almost any purpose, from analyzing consumer habits to fighting disease and serious organized crime. Ultimately, we manage data in order to derive value from it, and many organizations around the world have traditionally invested in technology to help process their data faster and more efficiently. But we now live in an interconnected world driven by mass data creation and consumption where data is no longer rows and columns restricted to a spreadsheet, but an organic and evolving asset in its own right. With this realization comes major challenges for organizations: how do we manage the sheer size of data being created every second (think not only spreadsheets and databases, but also social media posts, images, videos, music, blogs and so on)? And once we can manage all of this data, how do we derive real value from it? The focus of Machine Learning with Apache Spark is to help us answer these questions in a hands-on manner. We introduce the latest scalable technologies to help us manage and process big data. We then introduce advanced analytical algorithms applied to real-world use cases in order to uncover patterns, derive actionable insights, and learn from this big data. What you will learn Understand how Spark fits in the context of the big data ecosystem Understand how to deploy and configure a local development environment using Apache Spark Understand how to design supervised and unsupervised learning models Build models to perform NLP, deep learning, and cognitive services using Spark ML libraries Design real-time machine learning pipelines in Apache Spark Become familiar with advanced techniques for processing a large volume of data by applying machine learning algorithms Who this book is for This book is aimed at Business Analysts, Data Analysts and Data Scientists who wish to make a hands-on start in order to take advantage of modern Big Data technologies combined with Advanced Analytics.

Apache Spark is a flexible in-memory framework that allows processing of both batch and real-time data. Its unified engine has made it quite popular for big data use cases. This book will help you to quickly get started with Apache Spark 2.0 and write efficient big data applications for a variety of use cases.

Discover this spectacular destination with the most incisive and entertaining guidebook on the market. Whether you plan to sample fine wines in Hawke's Bay, canoe along the Whanganui River or hike across the Franz Josef glacier, The Rough Guide to New Zealand will show you the ideal places to sleep, eat, drink, shop and visit along the way. Independent, trusted reviews written with Rough Guides' trademark blend of humour, honesty and insight, to help you get the most out of your visit, with options to suit every budget. Full-colour maps throughout - navigate New Zealand's towns and cities or its scenic coastal roads without needing to get online. Stunning images - a rich collection of inspiring colour photography. Things not to miss - Rough Guides' rundown of New Zealand's best sights and experiences. Itineraries - carefully planned routes to help you organize your trip. Detailed regional coverage - whether off the beaten track or in more mainstream tourist destinations, this travel guide has in-depth practical advice for every step of the way. Areas covered include: Auckland, Northland, Western NorthIsland, Central North Island, The Coromandel, Bay of Plenty and the East Cape, Poverty Bay, Hawke's Bay and the Waiarapa, Wellington, Marlborough, Nelson and Kaikoura, Christchurch, Central South Island, Dunedin, Stewart Island, the West Coast, Queenstown, Wanaka and Central Otago, Fiordland . Attractions include: Milford Sound, Farewell Spit, Kaikoura Peninsula, White Island, Ninety Mile Beach, East Cape, The Catlins. Abel Tasman National Park, Wai-o-Tapu, wine regions. Basics - essential pre-departure practical information including getting there, local transport, accommodation, food and drink, health, the media, festivals, outdoor activities, culture and etiquette, and more. Background information - a Contexts chapter devoted to history and recommended books, plus a guide to Maori language and a glossary. Make the Most of Your Time on Earth with The Rough Guide to New Zealand. About Rough Guides: Escape the everyday with Rough Guides. We are a leading travel publisher known for our "tell it like it is" attitude, up-to-date content and great writing. Since 1982, we've published books covering more than 120 destinations around the globe, with an ever-growing series of ebooks, a range of beautiful, inspirational reference titles, and an award-winning website. We pride ourselves on our accurate, honest and informed travel guides.

If you’re like most R users, you have deep knowledge and love for statistics. But as your organization continues to collect huge amounts of data, adding tools such as Apache Spark makes a lot of sense. With this practical book, data scientists and professionals working with large-scale data applications will learn how to use Spark from R to tackle big data and big compute problems. Authors Javier Luraschi, Kevin Kuo, and Edgar Ruiz show you how to use R with Spark to solve different data analysis problems. This book covers relevant data science topics, cluster computing, and issues that should interest even

the most advanced users. Analyze, explore, transform, and visualize data in Apache Spark with R Create statistical models to extract information and predict outcomes; automate the process in production-ready workflows Perform analysis and modeling across many machines using distributed computing techniques Use large-scale data from multiple sources and different formats with ease from within Spark Learn about alternative modeling frameworks for graph processing, geospatial analysis, and genomics at scale Dive into advanced topics including custom transformations, real-time data processing, and creating custom Spark extensions

The Rough Guide Snapshot to Wellington and around is the ultimate travel guide to New Zealand's capital, packed with reliable information. There's comprehensive coverage of all the sights and attractions, from Te Papa museum and funky Cuba Street to the native birds of Zealandia. Detailed maps and up-to-date listings pinpoint the best cafés, restaurants, hotels, shops, bars and nightlife, ensuring you have the most enjoyable trip possible, whether you're staying for a short break or longer. The Rough Guide Snapshot to Wellington also covers the top places to visit outside the city, including Zealandia, the Miramar Peninsula and Matiu/Somes Island and the Hutt Valley. Also included is the basics section from The Rough Guide to New Zealand, with all the practical information you need for travelling in and around Wellington, including transport, food, drink, costs and health. Also published as part of The Rough Guide to New Zealand. The Rough Guide Snapshot to Wellington and around is equivalent to 74 printed pages.

"A lot of hard-won knowledge is laid out here in a brief but informative way. Every topic is well referenced, with citations from both the primary literature and relevant resources from the internet." Review from Nature Chemical Biology Written by the founders of the SPARK program at Stanford University, this book is a practical guide designed for professors, students and clinicians at academic research institutions who are interested in learning more about the drug development process and how to help their discoveries become the novel drugs of the future. Often many potentially transformative basic science discoveries are not pursued because they are deemed ‘too early’ to attract industry interest. There are simple, relatively cost-effective things that academic researchers can do to advance their findings to the point that they can be tested in the clinic or attract more industry interest. Each chapter broadly discusses an important topic in drug development, from preclinical work in assay design through clinical trial design, regulatory issues and marketing assessments. After the practical overview provided here, the reader is encouraged to consult more detailed texts on specific topics of interest. "I would actually welcome it if this book’s intended audience were broadened even more. Younger scientists starting out in the drug industry would benefit from reading it and getting some early exposure to parts of the process that they’ll eventually have to understand. Journalists covering the industry (especially the small startup companies) will find this book a good reality check for many an over-hopeful press release. Even advanced investors who might want to know what really happens in the labs will find information here that might otherwise be difficult to track down in such a concentrated form."

Software is pervasive in our lives. We are accustomed to dealing with the failures of much of that software - restarting an application is a very familiar solution. Such solutions are unacceptable when the software controls our cars, airplanes and medical devices or manages our private information. These applications must run without error. SPARK provides a means, based on mathematical proof, to guarantee that a program has no errors. SPARK is a formally defined programming language and a set of verification tools specifically designed to support the development of software used in high integrity applications. Using SPARK, developers can formally verify properties of their code such as information flow, freedom from runtime errors, functional correctness, security properties and safety properties. Written by two SPARK experts, this is the first introduction to the just-released 2014 version. It will help students and developers alike master the basic concepts for building systems with SPARK.

Learn how to use, deploy, and maintain Apache Spark with this comprehensive guide, written by the creators of the open-source cluster-computing framework. With an emphasis on improvements and new features in Spark 2.0, authors Bill Chambers and Matei Zaharia break down Spark topics into distinct sections, each with unique goals. You’ll explore the basic operations and common functions of Spark’s structured APIs, as well as Structured Streaming, a new high-level API for building end-to-end streaming applications. Developers and system administrators will learn the fundamentals of monitoring, tuning, and debugging Spark, and explore machine learning techniques and scenarios for employing MLlib, Spark’s scalable machine-learning library. Get a gentle overview of big data and Spark Learn about DataFrames, SQL, and Datasets—Spark’s core APIs—through worked examples Dive into Spark’s low-level APIs, RDDs, and execution of SQL and DataFrames Understand how Spark runs on a cluster Debug, monitor, and tune Spark clusters and applications Learn the power of Structured Streaming, Spark’s stream-processing engine Learn how you can apply MLlib to a variety of problems, including classification or recommendation

Simplify machine learning model implementations with Spark About This Book Solve the day-to-day problems of data science with Spark This unique cookbook consists of exciting and intuitive numerical recipes Optimize your work by acquiring, cleaning, analyzing, predicting, and visualizing your data Who This Book Is For This book is for Scala developers with a fairly good exposure to and understanding of machine learning techniques, but lack practical implementations with Spark. A solid knowledge of machine learning algorithms is assumed, as well as hands-on experience of implementing ML algorithms with Scala. However, you do not need to be acquainted with the Spark ML libraries and ecosystem. What You Will Learn Get to know how Scala and Spark go hand-in-hand for developers when developing ML systems with Spark Build a recommendation engine that scales with Spark Find out how to build unsupervised clustering systems to classify data in Spark Build machine learning systems with the Decision Tree and Ensemble models in Spark Deal with the curse of high-dimensionality in big data using Spark Implement Text analytics for Search Engines in Spark Streaming Machine Learning System implementation using Spark In Detail Machine learning aims to extract knowledge from data, relying on fundamental concepts in computer science, statistics, probability, and optimization. Learning about algorithms enables a wide range of applications, from everyday tasks such as product recommendations and spam filtering to cutting edge applications such as self-driving cars and personalized medicine. You will gain hands-on experience of applying these principles using Apache Spark, a resilient cluster computing system well suited for large-scale machine learning tasks. This book begins with a quick overview of setting up the necessary IDEs to facilitate the execution of code examples that will be covered in various chapters. It also highlights some key issues developers face while working with machine learning algorithms on the Spark platform. We progress by uncovering the various Spark APIs and the implementation of ML algorithms with developing classification systems, recommendation engines, text analytics, clustering, and learning systems. Toward the final chapters, we'll focus on building high-end applications and explain various unsupervised methodologies and challenges to tackle when implementing with big data ML systems. Style and approach This book is packed with intuitive recipes supported with line-by-line explanations to help you understand how to optimize your work flow and resolve problems when working with complex data modeling tasks and predictive algorithms. This is a valuable resource for data scientists and those working on large scale data projects.

Spark: The Definitive GuideBig Data Processing Made Simple"O'Reilly Media, Inc."

Insight Guides: all your customers need to inspire every step of their journeys. An in-depth book, now with free app and eBook. Newly updated edition of Insight Guide New Zealand (with free app and eBook) is ideal for travellers seeking immersive cultural experiences -In-depth on history and culture: travellers can enjoy special features on art and literature, flora, fauna and the environment and outdoor activities, all written by local experts -Innovative extras = incredible value, and unique in the market. All Insight Guides to countries and regions come with a free eBook and regularly updated app, unlike comparable competitors' products -High-production values - smart flexi-binding and first-rate, full-colour photography throughout -Exciting opportunities for bespoke promotions and POS - please contact your Account Manager for details. On-going consumer marketing activity Content overview: -in-depth on history and culture -invaluable maps, travel tips and practical information ensure effortless planning -inspirational colour photography throughout -inventive designthat makes for an engaging reading experience
Data in all domains is getting bigger. How can you work with it efficiently? Recently updated for Spark 1.3, 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 MLlib 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
Insight Explore Guides: pocket-sized books to inspire your on-foot exploration of top international destinations. Now with free eBook. Practical, pocket-sized and packed with inspirational insider information, this will make the ideal on-the-move companion to your trip to New Zealand Enjoy 18 irresistible Best Routes to walk, from Auckland, Wellington and around Rotorua to route across the South Island Features concise insider information about landscape, history, food and drink, and entertainment options Invaluable maps: each Best Route is accompanied by a detailed full-colour map, while the large pull-out map provides an essential overview of the area Discover your destination's must-see sights and hand-picked hidden gems Directory section provides invaluable insight into top accommodation, restaurant and nightlife options by area, along with an overview of language, books and films Includes an innovative extra that's unique in the market - all Insight Explore Guides come with a free eBook Inspirational colour photography throughout About Insight Guides: Insight Guides has over 40 years' experience of publishing high-quality, visual travel guides. We produce around 400 full-colour print guide books and maps as well as picture-packed eBooks and apps to meet different travellers' needs. Insight Guides' unique combination of beautiful travel photography and focus on history and culture together create a unique visual reference and planning tool to inspire your next adventure.
Summary Spark GraphX in Action starts out with an overview of Apache Spark and the GraphX graph processing API. This example-based tutorial then teaches you how to configure GraphX and how to use it interactively. Along the way, you'll collect practical techniques for enhancing applications and applying machine learning algorithms to graph data. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology GraphX is a powerful graph processing API for the Apache Spark analytics engine that lets you draw insights from large datasets. GraphX gives you unprecedented speed and capacity for running massively parallel and machine learning algorithms. About the Book Spark GraphX in Action begins with the big picture of what graphs can be used for. This example-based tutorial teaches you how to use GraphX interactively. You'll start with a crystal-clear introduction to building big data graphs from regular data, and then explore the problems and possibilities of implementing graph algorithms and architecting graph processing pipelines. Along the way, you'll collect practical techniques for enhancing applications and applying machine learning algorithms to graph data. What's Inside Understanding graph technology Using the GraphX API Developing algorithms for big graphs Machine learning with graphs Graph visualization About the Reader Readers should be comfortable writing code. Experience with Apache Spark and Scala is not required. About the Authors Michael Malak has worked on Spark applications for Fortune 500 companies since early 2013. Robin East has worked as a consultant to large organizations for over 15 years and is a data scientist at Worldpay. Table of Contents PART 1 SPARK AND GRAPHS Two important technologies: Spark and graphs GraphX quick start Some fundamentals PART 2 CONNECTING VERTICES GraphX Basics Built-in algorithms Other useful graph algorithms Machine learning PART 3 OVER THE ARC The missing algorithms Performance and monitoring Other languages and tools
"This is a book about joy, drive and art, work that we're all capable of if we'll only commit." —Seth Godin, author of Linchpin Public Radio International's Julie Burstein, creator of the award-winning program Studio 360, along with its host Kurt Andersen, offers a rare, fascinating glimpse into some of the 21st century's greatest creative minds—from Yo-Yo Ma and Robert Plant to Mira Nair and Chuck Close, to David Milch and Joyce Carol Oates, to Rosanne Cash and beyond. Fans of Malcolm Gladwell's Outliers, Daniel Pink's A Whole New Mind, Rosamund Zander's The Art of Possibility, and Lynda Barry's What It Is will be enthralled and electrified by this unique look at the creative process of the world's most talented and prolific artists.