

# Spark

*The Spark* David Drake.2017-11-07 NEW STANDALONE NOVEL BY SF MASTER DAVID DRAKE. In a violent world in which civilization has fallen and monsters roam, a young hero will rise. In the time of the Ancients the universe was united—but that was so far in the past that not even memory remains, only the broken artifacts that a few Makers can reshape into their original uses. What survives is shattered into enclaves—some tiny, some ruined, some wild. Into the gaps between settlements, and onto the Road that connects all human reality and the reality that is not human and may never have been human, have crept monsters. Some creatures are men, twisted into inhuman evil; some of them are alien to Mankind— And there are things which are hostile to all life, things which will raven and kill until they are stopped. A Leader has arisen, welding the scattered human settlements together in peace and safety and smashing the enemies of order with an iron fist. In his capital, Dun Add, the Leader provides law and justice. In the universe beyond, his Champions advance—and enforce—the return of civilization. Pal, a youth from the sticks, has come to Dun Add to become a Champion. Pal is a bit of a Maker, and in his rural home he's been able to think of himself as a warrior because he can wield the weapons of the Ancient civilization. Pal has no idea of what he's really getting into in Dun Add. On the other hand, the Leader and Dun Add have no real idea of what might be inside this hayseed with high hopes. THE SPARK: A story of hope and violence and courage. And especially, a story of determination. About The Spark: . . . entertaining tale combining the feel of Arthurian legend with nifty far-future super science . . .—Publishers Weekly About David Drake: “Drake deftly weaves a web of political machinations and intrigue that vividly depicts the costs of war. Fans of Patrick O'Brian's Maturin and Aubrey novels will enjoy this intricate, rousing space opera.” —Publishers Weekly “[R]ousing old-fashioned space opera.”—Publishers Weekly “The fun is in the telling, and Mr. Drake has a strong voice. I want more!”—Philadelphia Weekly Press “[S]pace opera is alive and well. This series is getting better as the author goes along...character development combined with first-rate action and memorable world designs.”—SFReader.com “[P]rose as cold and hard as the metal alloy of a tank...rivals Crane and Remarque...”—Chicago Sun-Times “Drake couldn't write a bad action scene at gunpoint.”—Booklist

**Spark Discharge** YuriP. Raizer.2017-11-13 Spark Discharge is a first-of-its-kind text, providing a comprehensive and systematic description of the spark breakdown of long gas gaps. It discusses the nature of a long spark, physical peculiarities of relevant gas discharge processes, methods and results of experimental studies, and analytical and numerical models. The most important applications in high-voltage engineering are covered in a single volume. The straightforward presentation of complicated materials, the deep insight into the nature of the processes, and the simplified mathematical descriptions of the phenomena, make Spark Discharge an excellent textbook for students and an indispensable reference for researchers, physicists, and engineers.

**Learning Apache Spark 2** Muhammad Asif Abbasi.2017-03-28 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.

SPARK: A Parallelizing Approach to the High-Level Synthesis of Digital Circuits Sumit Gupta,Rajesh Gupta,Nikil D. Dutt,Alexandru Nicolau.2007-05-08 Rapid advances in microelectronic integration and the advent of Systems-on-Chip have fueled the need for high-level synthesis, i.e., an automated approach to the synthesis of hardware from behavioral descriptions. SPARK: A Parallelizing Approach to the High - Level Synthesis of Digital Circuits presents a novel approach to the high-level synthesis of digital circuits -- that of parallelizing high-level synthesis (PHLS). This approach uses aggressive code parallelizing and code motion techniques to discover circuit optimization opportunities beyond what is possible with traditional high-level synthesis. This PHLS approach addresses the problems of the poor quality of synthesis results and the lack of controllability over the transformations applied during the high-level synthesis of system descriptions with complex control flows, that is, with nested conditionals and loops. Also described are speculative code motion techniques and dynamic compiler transformations that optimize the circuit quality in terms of cycle time, circuit size and interconnect costs. We describe the SPARK parallelizing high-level synthesis framework in which we have implemented these techniques and demonstrate the utility of SPARK's PHLS approach using designs derived from multimedia and image processing applications. We also present a case study of an instruction length decoder derived from the Intel Pentium-class of microprocessors. This case study serves as an example of a typical microprocessor functional block with complex control flow and demonstrates how our techniques are useful for such designs. SPARK: A Parallelizing Approach to the High - Level Synthesis of Digital Circuits is targeted mainly to embedded system designers and researchers. This includes people working on design and design automation. The book is useful for researchers and design automation engineers who wish to understand how the main problems hindering the adoption of high-level synthesis among designers.

That Certain Spark (Only In Gooding Book #4) Cathy Marie Hake.2009-08-01 Gooding, Texas, is about to gain a double blessing--a veterinarian and a

doctor. But when siblings Enoch and Taylor Bestman arrive, the discovery that Taylor is a lady doctor has the town up in arms. Especially Karl Van der Vort, the town blacksmith, who becomes the first patient...against his will. Though hesitant to believe in Taylor's doctoring skills, Karl finds himself oddly protective of this surprising woman who dares to drive about town on her own, wearing the color red, for heaven's sake! Taylor, on the other hand, wants only to prove that doctoring is her life's calling, despite the town's opposition. The result? Pride meets attraction head-on, and sparks begin to fly.

**Mastering Machine Learning with Spark 2.x** Alex Tellez, Max Pumperla, Michal Malohlava. 2017-08-31 Unlock the complexities of machine learning algorithms in Spark to generate useful data insights through this data analysis tutorial About This Book Process and analyze big data in a distributed and scalable way Write sophisticated Spark pipelines that incorporate elaborate extraction Build and use regression models to predict flight delays Who This Book Is For Are you a developer with a background in machine learning and statistics who is feeling limited by the current slow and “small data” machine learning tools? Then this is the book for you! In this book, you will create scalable machine learning applications to power a modern data-driven business using Spark. We assume that you already know the machine learning concepts and algorithms and have Spark up and running (whether on a cluster or locally) and have a basic knowledge of the various libraries contained in Spark. What You Will Learn Use Spark streams to cluster tweets online Run the PageRank algorithm to compute user influence Perform complex manipulation of DataFrames using Spark Define Spark pipelines to compose individual data transformations Utilize generated models for off-line/on-line prediction Transfer the learning from an ensemble to a simpler Neural Network Understand basic graph properties and important graph operations Use GraphFrames, an extension of DataFrames to graphs, to study graphs using an elegant query language Use K-means algorithm to cluster movie reviews dataset In Detail The purpose of machine learning is to build systems that learn from data. Being able to understand trends and patterns in complex data is critical to success; it is one of the key strategies to unlock growth in the challenging contemporary marketplace today. With the meteoric rise of machine learning, developers are now keen on finding out how can they make their Spark applications smarter. This book gives you access to transform data into actionable knowledge. The book commences by defining machine learning primitives by the MLlib and H2O libraries. You will learn how to use Binary classification to detect the Higgs Boson particle in the huge amount of data produced by CERN particle collider and classify daily health activities using ensemble Methods for Multi-Class Classification. Next, you will solve a typical regression problem involving flight delay predictions and write sophisticated Spark pipelines. You will analyze Twitter data with help of the doc2vec algorithm and K-means clustering. Finally, you will build different pattern mining models using MLlib, perform complex manipulation of DataFrames using Spark and Spark SQL, and deploy your app in a Spark streaming environment. Style and approach This book takes a practical approach to help you get to grips with using Spark for analytics and to implement machine learning algorithms. We'll teach you about advanced applications of machine learning through illustrative examples. These examples will equip you to harness the potential of machine learning, through Spark, in a variety of enterprise-grade systems.

*Ignite Your Spark* Patricia Wooster. 2017-01-10 Forge your own path, engage your passions, and light thousands of sparks to become the person you want to be with this interactive guide filled with quizzes and activities to help you along the way. It's no secret that your teen years can be tumultuous, confusing, and even sucky, but that doesn't mean you can't light a fire in your life. Covering topics from relationships, self-image, and school to goals, failures, and willpower, *Ignite Your Spark* features thought-provoking quizzes, “Ignite Your Life” activities, and profiles of kids and adults alike who have ignited their own spark to accomplish extraordinary things. Your teen years don't have to be a struggle, and with this handbook for self-discovery and personal fulfillment, you will find that the ability to ignite your own spark has been within you all along.

[Spark GraphX in Action](#) Michael Malak, Robin East. 2016-06-12 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

**Spark** Patricia Leavy.2019-03 Professor Peyton Wilde has an enviable life teaching sociology at an idyllic liberal arts college--yet she is troubled by a sense of fading inspiration. One day an invitation arrives. Peyton has been selected to attend a luxurious all-expense-paid seminar in Iceland, where participants, billed as some of the greatest thinkers in the world, will be charged with answering one perplexing question. Meeting her diverse teammates--two neuroscientists, a philosopher, a dance teacher, a collage artist, and a farmer--Peyton wonders what she could ever have to contribute. The ensuing journey of discovery will transform the characters' work, their biases, and themselves. This suspenseful novel shows that the answers you seek can be found in the most unlikely places. It can be read for pleasure, is a great choice for book clubs, and can be used as unique and inspiring reading in qualitative research and other courses in education, sociology, social work, psychology, and communication.

One Little Spark! Marty Sklar.2015-09-01 We've all read about the experts: the artists, the scientists, the engineers—that special group of people known as Imagineers for The Walt Disney Company. But who are they? How did they join the team? What is it like to spend a day in their shoes? Disney Legend Marty Sklar wants to give back to fans and answer these burning questions. When Marty was president of Walt Disney Imagineering, he created a list of principles and ideals for the team, aptly named Mickey's Ten Commandments. Using this code of standards as his organizational flow, Marty provides readers with insights and advice from himself and dozens of hands-on Imagineers from around the globe. It's a true insider's look like no other!

**Apache Spark Machine Learning Blueprints** Alex Liu.2016-05-30 Develop a range of cutting-edge machine learning projects with Apache Spark using this actionable guide About This Book Customize Apache Spark and R to fit your analytical needs in customer research, fraud detection, risk analytics, and recommendation engine development Develop a set of practical Machine Learning applications that can be implemented in real-life projects A comprehensive, project-based guide to improve and refine your predictive models for practical implementation Who This Book Is For If you are a data scientist, a data analyst, or an R and SPSS user with a good understanding of machine learning concepts, algorithms, and techniques, then this is the book for you. Some basic understanding of Spark and its core elements and application is required. What You Will Learn Set up Apache Spark for machine learning and discover its impressive processing power Combine Spark and R to unlock detailed business insights essential for

decision making Build machine learning systems with Spark that can detect fraud and analyze financial risks Build predictive models focusing on customer scoring and service ranking Build a recommendation systems using SPSS on Apache Spark Tackle parallel computing and find out how it can support your machine learning projects Turn open data and communication data into actionable insights by making use of various forms of machine learning In Detail There's a reason why Apache Spark has become one of the most popular tools in Machine Learning - its ability to handle huge datasets at an impressive speed means you can be much more responsive to the data at your disposal. This book shows you Spark at its very best, demonstrating how to connect it with R and unlock maximum value not only from the tool but also from your data. Packed with a range of project blueprints that demonstrate some of the most interesting challenges that Spark can help you tackle, you'll find out how to use Spark notebooks and access, clean, and join different datasets before putting your knowledge into practice with some real-world projects, in which you will see how Spark Machine Learning can help you with everything from fraud detection to analyzing customer attrition. You'll also find out how to build a recommendation engine using Spark's parallel computing powers. Style and approach This book offers a step-by-step approach to setting up Apache Spark, and use other analytical tools with it to process Big Data and build machine learning projects. The initial chapters focus more on the theory aspect of machine learning with Spark, while each of the later chapters focuses on building standalone projects using Spark.

**Muriel Spark** David Herman.2010-06 A substantial addition to Spark criticism, of which there has been surprisingly little published in recent years.--Aileen Christianson, University of Edinburgh --Book Jacket

**Your Spark** Lisa Leonard.2019-10-01 We all have a light inside us that shines brightly and makes us who we are. Artists and athletes, dancers and dreamers, jokers and gymnasts ... I want to see you shine in your own unique way. Come along with me as we celebrate your spark. Did you know that God gave you your very own spark? It's true! And no one else in the whole wide world has a spark like yours! Your spark makes your eyes twinkle and your mouth smile. It makes your feet stomp and your voice loud. It makes you excited and curious to learn new things. It lights you up from the inside, and it fills you with wonder and dreams. Your spark does all that and more. And author Lisa Leonard offers this picture book in celebration of you ... and your spark! Lisa pours her heart into this book, bringing Your Spark to life with inspiring text and free-spirited illustrations. More than anything, Lisa wants you and children everywhere to know: Inside your heart there is a spark. It shines bright and true, and it's what makes you, YOU! Your Spark: Is written by social media sensation and jewelry-maker Lisa Leonard Shines with the universal message of self-acceptance and is a celebration of what makes us all unique Inspires children to shine in their own unique way

**Learning Spark** Jules S. Damji, Brooke Wenig, Tathagata Das, Denny Lee.2020-07-16 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

**Fast Data Processing with Spark 2** Krishna Sankar.2016-10-24 Learn how to use Spark to process big data at speed and scale for sharper analytics. Put the principles into practice for faster, slicker big data projects. About This Book A quick way to get started with Spark - and reap the rewards From analytics to engineering your big data architecture, we've got it covered Bring your Scala and Java knowledge - and put it to work on

new and exciting problems Who This Book Is For This book is for developers with little to no knowledge of Spark, but with a background in Scala/Java programming. It's recommended that you have experience in dealing and working with big data and a strong interest in data science. What You Will Learn Install and set up Spark in your cluster Prototype distributed applications with Spark's interactive shell Perform data wrangling using the new DataFrame APIs Get to know the different ways to interact with Spark's distributed representation of data (RDDs) Query Spark with a SQL-like query syntax See how Spark works with big data Implement machine learning systems with highly scalable algorithms Use R, the popular statistical language, to work with Spark Apply interesting graph algorithms and graph processing with GraphX In Detail When people want a way to process big data at speed, Spark is invariably the solution. With its ease of development (in comparison to the relative complexity of Hadoop), it's unsurprising that it's becoming popular with data analysts and engineers everywhere. Beginning with the fundamentals, we'll show you how to get set up with Spark with minimum fuss. You'll then get to grips with some simple APIs before investigating machine learning and graph processing – throughout we'll make sure you know exactly how to apply your knowledge. You will also learn how to use the Spark shell, how to load data before finding out how to build and run your own Spark applications. Discover how to manipulate your RDD and get stuck into a range of DataFrame APIs. As if that's not enough, you'll also learn some useful Machine Learning algorithms with the help of Spark MLlib and integrating Spark with R. We'll also make sure you're confident and prepared for graph processing, as you learn more about the GraphX API. Style and approach This book is a basic, step-by-step tutorial that will help you take advantage of all that Spark has to offer.

**Spark** John.2010-04-13 The playing field for businesses is always changing. But one principle remains constant: individuals and companies that innovate will excel. In this groundbreaking guide, entrepreneur John Winsor presents 16 unique perspectives from trail-blazing innovators in companies of all sizes – creative directors, CEOs, brand managers, product developers, and others. Readers will learn how these stellar innovators built powerful brands and created the right environments to foster high levels of creativity. Following each interview, readers will discover a set of tools and recommendations to help them implement the innovator's ideas, including exercises, questions, and space to draw or write their thoughts. Throughout, Winsor weaves his essential premise: it takes more than one brilliant mind to allow innovation to occur. By the end, readers will understand why a true innovator is someone who makes connections with others and realizes the rewards.

**Spark: The Definitive Guide** Bill Chambers, Matei Zaharia.2018-02-08 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'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

**Spark** Evan Angler.2013-11-12 In a future United States under the power of a charismatic leader, everyone gets the Mark at age thirteen. The Mark lets citizen shop, go to school, and even get medical care—but without it, you're on your own. Few refuse to get the Mark. Those who do . . . disappear. Parents are looking for fiction that makes Christianity exciting for kids. This series is an alternative to the Hunger Games series and other

dark dystopian fiction. It's packed with action and intrigue, but the message is written from a Christian worldview. Logan Langly went to get his Mark but backed out at the last minute. Ever since, he's been on the run from government agents and on a quest to find his sister Lily, who disappeared when she went to get her Mark five years ago. His journey leads him to befriend the Dust, a network of Markless who oppose the iron-grip rule of the government. On the way to the capital to find Lily, the Dust receive some startling information from the Markless community, warning that humanity is now entering the End of Days. Spark introduces nine-year-old Ali, a beggar living in the Dark Lands city of al-Balat. Ali meets a stranger who gives her his tablet, a portal to a tech world that Ali never knew existed. But one day, the tablet begins to communicate back to her—and takes her on a journey that will cross her path with exiled Logan Langly, Chancellor Cylis, and the fierce battle for power that spans reality and the virtual world. Meets national education standards.

**Spark** Caridad Svich.2016-03-24 SPARK is a play by Caridad Svich about three sisters living in the US caught in the mess of a recent war's aftermath. It is about what happens when soldiers come home, when women of little economic means must find a way to make do and carry on, and the strength, ultimately, of family. A contemporary US story of faith, love, war, trauma, and a bit of healing.

*Quest for the Spark* Tom Sniegowski.2011 As the evil Nacht spreads his darkness across the valley, Tom and his friends, the Bone family, desperately try to find the Spark that will heal the Dreaming and save the world.

**Big Data Processing with Apache Spark** Srini Penchikala.2018-03-13 Apache Spark is a popular open-source big-data processing framework that's built around speed, ease of use, and unified distributed computing architecture. Not only it supports developing applications in different languages like Java, Scala, Python, and R, it's also hundred times faster in memory and ten times faster even when running on disk compared to traditional data processing frameworks. Whether you are currently working on a big data project or interested in learning more about topics like machine learning, streaming data processing, and graph data analytics, this book is for you. You can learn about Apache Spark and develop Spark programs for various use cases in big data analytics using the code examples provided. This book covers all the libraries in Spark ecosystem: Spark Core, Spark SQL, Spark Streaming, Spark ML, and Spark GraphX.

Spark Jason Jaggard.2012-08-21 Develop the Art of Self-Challenge Tired of dreaming about changing your life? Ready to change it? You came to the right place. Jason Jaggard has developed a simple, direct way to practice the art of self-challenge. It requires a willingness to take healthy risks and is energized by the involvement of a small group of fellow risk-takers. Here are just a few of the Spark insights that lead to lasting change: · More resources are available to you than you realize. · Living a changed life works best when a few friends get involved. · When you relearn what “good” is, you experience more goodness in your life. · Taking a healthy risk is always worth it, even if you fail. When you practice the art of self-challenge, you notice that your life and the world around you start changing for the better. It involves doing the one thing that only you can do: take responsibility for your life. So go ahead and take your first risk: open this book and start reading.

*Bathe the Cat* Alice B. McGinty.2022-02-08 Bathe the floor? Sweep the dishes? This riotous romp of a picture book follows a frantic family as they try to get some chores done—with no help from the family cat, who keeps scrambling the list of chores with hilarious effects. Get ready for a rollicking read-aloud with a truly purrfect ending. It's cleaning day, but the family cat will do anything to avoid getting a bath. So instead of mopping the floor or feeding the fish, the family is soon busy rocking the rug, vacuuming the lawn, and sweeping the dishes. Bouncy rhyme carries the story headlong into the growing hilarity, until finally Dad restores some kind of order—but will the cat avoid getting his whiskers wet? HILARIOUS READ-ALLOUD: Word scrambles are a delight in this silly rhyming picture book! Kids will love the accessible rhyming text, and emerging readers will be able to anticipate words after repeated reads, making for an engaging and interactive read-aloud experience. CATNIP FOR CAT LOVERS: This sweet and

sneaky feline will do anything to get out of having a bath! Ample cat antics and scenes of increasing mischief (and increasing chaos!) will tickle young readers and entice parents—particularly those with a furry feline member of their own households. TWO DADS LEAD THE WAY: Dad and Papa are the heads of this large and loving biracial family, mirroring illustrator David Robert's own orientation and providing picture book readers with a positive depiction of LGBTQ+ characters in a fun and funny family story. WINNING AUTHOR-ILLUSTRATOR TEAM: Alice McGinty is a prolific author of books for children, and David Roberts is well-known for his work on the popular Questioners series. Together, their upbeat text and energetic art with pops of neon color make for a standout picture book, just right for gifting and enjoying together at storytime. Perfect for: • Parents • Gift-givers • Cat lovers

*Stream Processing with Apache Spark* Gerard Maas, Francois Garillot. 2019-06-05 Before you can build analytics tools to gain quick insights, you first need to know how to process data in real time. With this practical guide, developers familiar with Apache Spark will learn how to put this in-memory framework to use for streaming data. You'll discover how Spark enables you to write streaming jobs in almost the same way you write batch jobs. Authors Gerard Maas and François Garillot help you explore the theoretical underpinnings of Apache Spark. This comprehensive guide features two sections that compare and contrast the streaming APIs Spark now supports: the original Spark Streaming library and the newer Structured Streaming API. Learn fundamental stream processing concepts and examine different streaming architectures Explore Structured Streaming through practical examples; learn different aspects of stream processing in detail Create and operate streaming jobs and applications with Spark Streaming; integrate Spark Streaming with other Spark APIs Learn advanced Spark Streaming techniques, including approximation algorithms and machine learning algorithms Compare Apache Spark to other stream processing projects, including Apache Storm, Apache Flink, and Apache Kafka Streams

**Spark in Action** Jean-Georges Perrin. 2020-05-12 Summary The Spark distributed data processing platform provides an easy-to-implement tool for ingesting, streaming, and processing data from any source. In *Spark in Action, Second Edition*, you'll learn to take advantage of Spark's core features and incredible processing speed, with applications including real-time computation, delayed evaluation, and machine learning. Spark skills are a hot commodity in enterprises worldwide, and with Spark's powerful and flexible Java APIs, you can reap all the benefits without first learning Scala or Hadoop. Foreword by Rob Thomas. About the technology Analyzing enterprise data starts by reading, filtering, and merging files and streams from many sources. The Spark data processing engine handles this varied volume like a champ, delivering speeds 100 times faster than Hadoop systems. Thanks to SQL support, an intuitive interface, and a straightforward multilanguage API, you can use Spark without learning a complex new ecosystem. About the book *Spark in Action, Second Edition*, teaches you to create end-to-end analytics applications. In this entirely new book, you'll learn from interesting Java-based examples, including a complete data pipeline for processing NASA satellite data. And you'll discover Java, Python, and Scala code samples hosted on GitHub that you can explore and adapt, plus appendixes that give you a cheat sheet for installing tools and understanding Spark-specific terms. What's inside Writing Spark applications in Java Spark application architecture Ingestion through files, databases, streaming, and Elasticsearch Querying distributed datasets with Spark SQL About the reader This book does not assume previous experience with Spark, Scala, or Hadoop. About the author Jean-Georges Perrin is an experienced data and software architect. He is France's first IBM Champion and has been honored for 12 consecutive years. Table of Contents PART 1 - THE THEORY CRIPPLED BY AWESOME EXAMPLES 1 So, what is Spark, anyway? 2 Architecture and flow 3 The majestic role of the dataframe 4 Fundamentally lazy 5 Building a simple app for deployment 6 Deploying your simple app PART 2 - INGESTION 7 Ingestion from files 8 Ingestion from databases 9 Advanced ingestion: finding data sources and building your own 10 Ingestion through structured streaming PART 3 - TRANSFORMING YOUR DATA 11 Working with SQL 12 Transforming your data 13 Transforming entire documents 14 Extending transformations with user-defined functions 15 Aggregating your data PART 4 - GOING



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*Beginning Apache Spark 2* Hien Luu.2018-08-16 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.

**Data Analytics with Spark Using Python** Jeffrey Aven.2018-06-18 Solve Data Analytics Problems with Spark, PySpark, and Related Open Source Tools Spark is at the heart of today's Big Data revolution, helping data professionals supercharge efficiency and performance in a wide range of data processing and analytics tasks. In this guide, Big Data expert Jeffrey Aven covers all you need to know to leverage Spark, together with its extensions, subprojects, and wider ecosystem. Aven combines a language-agnostic introduction to foundational Spark concepts with extensive programming examples utilizing the popular and intuitive PySpark development environment. This guide's focus on Python makes it widely accessible to large audiences of data professionals, analysts, and developers—even those with little Hadoop or Spark experience. Aven's broad coverage ranges from basic to advanced Spark programming, and Spark SQL to machine learning. You'll learn how to efficiently manage all forms of data with Spark: streaming, structured, semi-structured, and unstructured. Throughout, concise topic overviews quickly get you up to speed, and extensive hands-on exercises prepare you to solve real problems. Coverage includes:

- Understand Spark's evolving role in the Big Data and Hadoop ecosystems
- Create Spark clusters using various deployment modes
- Control and optimize the operation of Spark clusters and applications
- Master Spark Core RDD API programming techniques
- Extend, accelerate, and optimize Spark routines with advanced API platform constructs, including shared variables, RDD storage, and partitioning
- Efficiently integrate Spark with both SQL and nonrelational data stores
- Perform stream processing and messaging with Spark Streaming and Apache Kafka
- Implement predictive modeling with SparkR and Spark MLlib

**Apache Spark Graph Processing** Rindra Ramamonjison.2015-09-10 Build, process and analyze large-scale graph data effectively with Spark About This Book Find solutions for every stage of data processing from loading and transforming graph data to Improve the scalability of your graphs with a variety of real-world applications with complete Scala code. A concise guide to processing large-scale networks with Apache Spark. Who This Book Is For This book is for data scientists and big data developers who want to learn the processing and analyzing graph datasets at scale. Basic programming experience with Scala is assumed. Basic knowledge of Spark is assumed. What You Will Learn Write, build and deploy Spark applications with the Scala Build Tool. Build and analyze large-scale network datasets Analyze and transform graphs using RDD and graph-specific operations Implement new custom graph operations tailored to specific needs. Develop iterative and efficient graph algorithms using message aggregation and Pregel abstraction Extract subgraphs and use it to discover common clusters Analyze graph data and solve various data science problems using real-world datasets. In Detail Apache Spark is the next standard of open-source cluster-computing engine for processing big data. Many practical computing problems concern large graphs, like the Web graph and various social networks. The scale of these graphs - in some cases

billions of vertices, trillions of edges - poses challenges to their efficient processing. Apache Spark GraphX API combines the advantages of both data-parallel and graph-parallel systems by efficiently expressing graph computation within the Spark data-parallel framework. This book will teach the user to do graphical programming in Apache Spark, apart from an explanation of the entire process of graphical data analysis. You will journey through the creation of graphs, its uses, its exploration and analysis and finally will also cover the conversion of graph elements into graph structures. This book begins with an introduction of the Spark system, its libraries and the Scala Build Tool. Using a hands-on approach, this book will quickly teach you how to install and leverage Spark interactively on the command line and in a standalone Scala program. Then, it presents all the methods for building Spark graphs using illustrative network datasets. Next, it will walk you through the process of exploring, visualizing and analyzing different network characteristics. This book will also teach you how to transform raw datasets into a usable form. In addition, you will learn powerful operations that can be used to transform graph elements and graph structures. Furthermore, this book also teaches how to create custom graph operations that are tailored for specific needs with efficiency in mind. The later chapters of this book cover more advanced topics such as clustering graphs, implementing graph-parallel iterative algorithms and learning methods from graph data. Style and approach A step-by-step guide that will walk you through the key ideas and techniques for processing big graph data at scale, with practical examples that will ensure an overall understanding of the concepts of Spark.

Each Tiny Spark Pablo Cartaya.2019-08-06 From award-winning author Pablo Cartaya comes a deeply moving middle grade novel about a daughter and father finding their way back to each other in the face of their changing family and community. A SCHNEIDER FAMILY BOOK AWARD HONOR FOR MIDDLE GRADE Emilia Torres has a wandering mind. It's hard for her to follow along at school, and sometimes she forgets to do what her mom or abuela asks. But she remembers what matters: a time when her family was whole and home made sense. When Dad returns from deployment, Emilia expects that her life will get back to normal. Instead, it unravels. Dad shuts himself in the back stall of their family's auto shop to work on an old car. Emilia peeks in on him daily, mesmerized by his welder. One day, Dad calls Emilia over. Then, he teaches her how to weld. And over time, flickers of her old dad reappear. But as Emilia finds a way to repair the relationship with her father at home, her community ruptures with some of her classmates, like her best friend, Gus, at the center of the conflict. Each Tiny Spark by Pablo Cartaya is a tender story about asking big questions and being brave enough to reckon with the answers.

**A Kind of Spark** Elle McNicoll.2022-10-11 Perfect for readers of Song for a Whale and Counting by 7s, a neurodivergent girl campaigns for a memorial when she learns that her small Scottish town used to burn witches simply because they were different. A must-read for students and adults alike. -School Library Journal, Starred Review Ever since Ms. Murphy told us about the witch trials that happened centuries ago right here in Juniper, I can't stop thinking about them. Those people weren't magic. They were like me. Different like me. I'm autistic. I see things that others do not. I hear sounds that they can ignore. And sometimes I feel things all at once. I think about the witches, with no one to speak for them. Not everyone in our small town understands. But if I keep trying, maybe someone will. I won't let the witches be forgotten. Because there is more to their story. Just like there is more to mine. Award-winning and neurodivergent author Elle McNicoll delivers an insightful and stirring debut about the European witch trials and a girl who refuses to relent in the fight for what she knows is right.

**Big Data Analytics with Spark** Mohammed Guller.2015-12-29 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.

**Spark** John J. Ratey, Eric Hagerman. 2008-01-10 Bestselling author and renowned psychiatrist Dr. Ratey presents a groundbreaking and fascinating investigation into the transformative effects of exercise on the brain.

Scaling Machine Learning with Spark Adi Polak. 2023-03-07 Learn how to build end-to-end scalable machine learning solutions with Apache Spark. With this practical guide, author Adi Polak introduces data and ML practitioners to creative solutions that supersede today's traditional methods. You'll learn a more holistic approach that takes you beyond specific requirements and organizational goals--allowing data and ML practitioners to collaborate and understand each other better. Scaling Machine Learning with Spark examines several technologies for building end-to-end distributed ML workflows based on the Apache Spark ecosystem with Spark MLlib, MLflow, TensorFlow, and PyTorch. If you're a data scientist who works with machine learning, this book shows you when and why to use each technology. You will: Explore machine learning, including distributed computing concepts and terminology Manage the ML lifecycle with MLflow Ingest data and perform basic preprocessing with Spark Explore feature engineering, and use Spark to extract features Train a model with MLlib and build a pipeline to reproduce it Build a data system to combine the power of Spark with deep learning Get a step-by-step example of working with distributed TensorFlow Use PyTorch to scale machine learning and its internal architecture

*Spark* Sarah Beth Durst. 2019 Naturally quiet since birth, Mina and her stormbeast, Pixit, lead others like themselves in defying authority and attempting to spread the truth that Alorria's idyllic weather comes at a steep cost.

Learning Spark Holden Karau, Andy Konwinski, Patrick Wendell, Matei Zaharia. 2015-01-28 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

**Spark** Timothy J. Jorgensen.2023-06-06 A fresh look at electricity and its powerful role in life on Earth When we think of electricity, we likely imagine the energy humming inside our home appliances or lighting up our electronic devices—or perhaps we envision the lightning-streaked clouds of a stormy sky. But electricity is more than an external source of power, heat, or illumination. Life at its essence is nothing if not electrical. The story of how we came to understand electricity's essential role in all life is rooted in our observations of its influences on the body—influences governed by the body's central nervous system. Spark explains the science of electricity from this fresh, biological perspective. Through vivid tales of scientists and individuals—from Benjamin Franklin to Elon Musk—Timothy Jorgensen shows how our views of electricity and the nervous system evolved in tandem, and how progress in one area enabled advancements in the other. He explains how these developments have allowed us to understand—and replicate—the ways electricity enables the body's essential functions of sight, hearing, touch, and movement itself. Throughout, Jorgensen examines our fascination with electricity and how it can help or harm us. He explores a broad range of topics and events, including the Nobel Prize-winning discoveries of the electron and neuron, the history of experimentation involving electricity's effects on the body, and recent breakthroughs in the use of electricity to treat disease. Filled with gripping adventures in scientific exploration, Spark offers an indispensable look at electricity, how it works, and how it animates our lives from within and without.

*High Performance Spark* Holden Karau,Rachel Warren.2017-05-25 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

**The Little Spark** Carrie Bloomston.2014 Ignite that inner fire with the 30 engaging exercises, fun activities, inspirational images, and motivating ideas in this book. Learn what your Little Spark of creative passion looks like, how to capture it, and how to make room for it in your life. Use this guide as a month-long creative roadmap, or just dip into the exercises as your time and inclination allow. Either way, you will change your life.

**Spark in Action, Second Edition** Jean-Georges Perrin.2020-06-02 Summary The Spark distributed data processing platform provides an easy-to-implement tool for ingesting, streaming, and processing data from any source. In Spark in Action, Second Edition, you'll learn to take advantage of Spark's core features and incredible processing speed, with applications including real-time computation, delayed evaluation, and machine learning. Spark skills are a hot commodity in enterprises worldwide, and with Spark's powerful and flexible Java APIs, you can reap all the benefits without first learning Scala or Hadoop. Foreword by Rob Thomas. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from

Manning Publications. About the technology Analyzing enterprise data starts by reading, filtering, and merging files and streams from many sources. The Spark data processing engine handles this varied volume like a champ, delivering speeds 100 times faster than Hadoop systems. Thanks to SQL support, an intuitive interface, and a straightforward multilanguage API, you can use Spark without learning a complex new ecosystem. About the book Spark in Action, Second Edition, teaches you to create end-to-end analytics applications. In this entirely new book, you'll learn from interesting Java-based examples, including a complete data pipeline for processing NASA satellite data. And you'll discover Java, Python, and Scala code samples hosted on GitHub that you can explore and adapt, plus appendixes that give you a cheat sheet for installing tools and understanding Spark-specific terms. What's inside Writing Spark applications in Java Spark application architecture Ingestion through files, databases, streaming, and Elasticsearch Querying distributed datasets with Spark SQL About the reader This book does not assume previous experience with Spark, Scala, or Hadoop. About the author Jean-Georges Perrin is an experienced data and software architect. He is France's first IBM Champion and has been honored for 12 consecutive years. Table of Contents PART 1 - THE THEORY CRIPPLED BY AWESOME EXAMPLES 1 So, what is Spark, anyway? 2 Architecture and flow 3 The majestic role of the dataframe 4 Fundamentally lazy 5 Building a simple app for deployment 6 Deploying your simple app PART 2 - INGESTION 7 Ingestion from files 8 Ingestion from databases 9 Advanced ingestion: finding data sources and building your own 10 Ingestion through structured streaming PART 3 - TRANSFORMING YOUR DATA 11 Working with SQL 12 Transforming your data 13 Transforming entire documents 14 Extending transformations with user-defined functions 15 Aggregating your data PART 4 - GOING FURTHER 16 Cache and checkpoint: Enhancing Spark's performances 17 Exporting data and building full data pipelines 18 Exploring deployment *Building High Integrity Applications with SPARK* John W. McCormick, Peter C. Chapin. 2015-08-31 This is the first introduction to the SPARK 2014 language and the tools to verify programs for safety- and security-critical applications.

## Embracing the Melody of Term: An Mental Symphony within **Spark**

In some sort of consumed by monitors and the ceaseless chatter of fast interaction, the melodic beauty and emotional symphony produced by the published word often fade into the back ground, eclipsed by the relentless sound and disruptions that permeate our lives. But, located within the pages of **Spark** a wonderful fictional value brimming with raw feelings, lies an immersive symphony waiting to be embraced. Constructed by an outstanding composer of language, this interesting masterpiece conducts visitors on a psychological trip, well unraveling the hidden melodies and profound impact resonating within each cautiously constructed phrase. Within the depths with this emotional examination, we will explore the book is key harmonies, analyze its enthralling publishing type, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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### Spark Introduction

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### Spark :

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