Covers Apache Lucene 3.0

Lucene
IN ACTION

SECOND EDITION

Michael McCandless
Erik Hatcher
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FOREWORD BY DOUG CUTTING

/|\|\| MANNING

Lucene In Action

Boris Lublinsky,Kevin T. Smith,Alexey Yakubovich

Lucene In Action:

Lucene in Action Otis Gospodnetic,Erik Hatcher,Michael McCandless,2010-07-08 When Lucene first hit the scene five years ago it was nothing short ofamazing By using this open source highly scalable super fast search engine developers could integrate search into applications quickly and efficiently A lot has changed since then search has grown from a nice to have featureinto an indispensable part of most enterprise applications Lucene now powerssearch in diverse companies including Akamai Netflix LinkedIn Technorati HotJobs Epiphany FedEx Mayo Clinic MIT New ScientistMagazine and many others Some things remain the same though Lucene still delivers high performancesearch features in a disarmingly easy to use API Due to its vibrant and diverseopen source community of developers and users Lucene is relentlessly improving with evolutions to APIs significant new features such as payloads and ahuge increase as much as 8x in indexing speed with Lucene 2 3 And with clear writing reusable examples and unmatched advice on bestpractices Lucene in Action Second Edition is still the definitive guide todeveloping with Lucene Purchase of the print book comes with an offer of a free PDF ePub and Kindle eBook from Manning Also available is all code from the book   **Lucene in Action** Michael McCandless,Otis Gospodnetić,Erik Hatcher,2010   **Collective Intelligence in Action** Satnam Alag,2008-09-30 There s a great deal of wisdom in a crowd but how do you listen to a thousand people talking at once Identifying the wants needs and knowledge of internet users can be like listening to a mob In the Web 2 0 era leveraging the collective power of user contributions interactions and feedback is the key to market dominance A new category of powerful programming techniques lets you discover the patterns inter relationships and individual profiles the collective intelligence locked in the data people leave behind as they surf websites post blogs and interact with other users Collective Intelligence in Action is a hands on guidebook for implementing collective intelligence concepts using Java It is the first Java based book to emphasize the underlying algorithms and technical implementation of vital data gathering and mining techniques like analyzing trends discovering relationships and making predictions It provides a pragmatic approach to personalization by combining content based analysis with collaborative approaches This book is for Java developers implementing Collective Intelligence in real high use applications Following a running example in which you harvest and use information from blogs you learn to develop software that you can embed in your own applications The code examples are immediately reusable and give the Java developer a working collective intelligence toolkit Along the way you work with a number of APIs and open source toolkits including text analysis and search using Lucene web crawling using Nutch and applying machine learning algorithms using WEKA and the Java Data Mining JDM standard Purchase of the print book comes with an offer of a free PDF ePub and Kindle eBook from Manning Also available is all code from the book   Tika in Action Jukka L. Zitting,Chris Mattmann,2011-11-30 Summary Tika in Action is a hands on guide to content mining with Apache Tika The book s many examples and case studies offer real world experience from domains ranging from search engines to digital asset management and scientific data

processing About the Technology Tika is an Apache toolkit that has built into it everything you and your app need to know about file formats Using Tika your applications can discover and extract content from digital documents in almost any format including exotic ones About this Book Tika in Action is the ultimate guide to content mining using Apache Tika You ll learn how to pull usable information from otherwise inaccessible sources including internet media and file archives This example rich book teaches you to build and extend applications based on real world experience with search engines digital asset management and scientific data processing In addition to architectural overviews you ll find detailed chapters on features like metadata extraction automatic language detection and custom parser development This book is written for developers who are new to both Scala and Lift and covers just enough Scala to get you started Purchase of the print book comes with an offer of a free PDF ePub and Kindle eBook from Manning Also available is all code from the book What s Inside Crack MS Word PDF HTML and ZIP Integrate with search engines CMS and other data sources Learn through experimentation Many examples This book requires no previous knowledge of Tika or text mining techniques It assumes a working knowledge of Java Table of Contents PART 1 GETTING STARTED The case for the digital Babel fish Getting started with Tika The information landscape PART 2 TIKA IN DETAIL Document type detection Content extraction Understanding metadata Language detection What s in a file PART 3 INTEGRATION AND ADVANCED USE The big picture Tika and the Lucene search stack Extending Tika PART 4 CASE STUDIES Powering NASA science data systems Content management with Apache Jackrabbit Curating cancer research data with Tika The classic search engine example   *Hibernate Search in Action* Emmanuel Bernard,John Griffin,2008-12-20 Enterprise and web applications require full featured Google quality searchcapabilities but such features are notoriously difficult to implement and maintain Hibernate Search builds on the Lucene feature set and offers an easyto implement interface that integrates seamlessly with Hibernate the leadingdata persistence solution for Java applications Hibernate Search in Action introduces both the principles of enterprise searchand the implementation details a Java developer will need to use HibernateSearch effectively This book blends the insights of the Hibernate Search leaddeveloper with the practical techniques required to index and manipulate data assemble and execute search queries and create smart filters for better searchresults Along the way the reader masters performance boosting concepts likeusing Hibernate Search in a clustered environment and integrating with thefeatures already in your applications This book assumes you re a competent Java developer with some experienceusing Hibernate and Lucene Purchase of the print book comes with an offer of a free PDF ePub and Kindle eBook from Manning Also available is all code from the book

Neo4j in Action Tareq Abedrabbo,Nicki Watt,Dominic Fox,Aleksa Vukotic,2014-12-05 Summary Neo4j in Action is a comprehensive guide to Neo4j aimed at application developers and software architects Using hands on examples you ll learn to model graph domains naturally with Neo4j graph structures The book explores the full power of native Java APIs for graph data manipulation and querying Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from

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Solr in Action Timothy Potter,Trey Grainger,2014-03-25 Summary Solr in Action is a comprehensive guide to implementing scalable search using Apache Solr This clearly written book walks you through well documented examples ranging from basic keyword searching to scaling a system for billions of documents and queries It will give you a deep understanding of how to implement core Solr capabilities About the Book Whether you re handling big or small data managing documents or building a website it is important to be able to quickly search through your content and discover meaning in it Apache Solr is your tool a ready to deploy Lucene based open source full text search engine Solr can scale across many servers to enable real time queries and data analytics across billions of documents Solr in Action teaches you to implement scalable search using Apache Solr This easy to read guide balances conceptual discussions with practical examples to show you how to implement all of Solr s core capabilities You ll master topics like text analysis faceted search hit highlighting result grouping query suggestions multilingual search advanced geospatial and data operations and relevancy tuning This book assumes basic knowledge of Java and standard database technology No prior knowledge of Solr or Lucene is required Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications What s Inside How to scale Solr for big data Rich real world examples Solr as a NoSQL data store Advanced multilingual data and relevancy tricks Coverage of versions through Solr 4 7 About the Authors Trey Grainger is a director of engineering at CareerBuilder Timothy Potter is a senior member of the engineering team at LucidWorks The authors work on the scalability

and reliability of Solr as well as on recommendation engine and big data analytics technologies Table of Contents PART 1 MEET SOLR Introduction to Solr Getting to know Solr Key Solr concepts Configuring Solr Indexing Text analysis PART 2 CORE SOLR CAPABILITIES Performing queries and handling results Faceted search Hit highlighting Query suggestions Result grouping field collapsing Taking Solr to production PART 3 TAKING SOLR TO THE NEXT LEVEL SolrCloud Multilingual search Complex query operations Mastering relevancy **Elasticsearch in Action** Roy Russo,Radu Gheorghe,Matthew Lee Hinman,2015-11-17 Summary Elasticsearch in Action teaches you how to build scalable search applications using Elasticsearch You ll ramp up fast with an informative overview and an engaging introductory example Within the first few chapters you ll pick up the core concepts you need to implement basic searches and efficient indexing With the fundamentals well in hand you ll go on to gain an organized view of how to optimize your design Perfect for developers and administrators building and managing search oriented applications Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the Technology Modern search seems like magic you type a few words and the search engine appears to know what you want With the Elasticsearch real time search and analytics engine you can give your users this magical experience without having to do complex low level programming or understand advanced data science algorithms You just install it tweak it and get on with your work About the Book Elasticsearch in Action teaches you how to write applications that deliver professional quality search As you read you ll learn to add basic search features to any application enhance search results with predictive analysis and relevancy ranking and use saved data from prior searches to give users a custom experience This practical book focuses on Elasticsearch s REST API via HTTP Code snippets are written mostly in bash using cURL so they re easily translatable to other languages What s Inside What is a great search application Building scalable search solutions Using Elasticsearch with any language Configuration and tuning About the Reader For developers and administrators building and managing search oriented applications About the Authors Radu Gheorghe is a search consultant and software engineer Matthew Lee Hinman develops highly available cloud based systems Roy Russo is a specialist in predictive analytics Table of Contents PART 1 CORE ELASTICSEARCH FUNCTIONALITY Introducing Elasticsearch Diving into the functionality Indexing updating and deleting data Searching your data Analyzing your data Searching with relevancy Exploring your data with aggregations Relations among documents PART 2 ADVANCED ELASTICSEARCH FUNCTIONALITY Scaling out Improving performance Administering your cluster **MongoDB 8.0 in Action, Third Edition** Arek Borucki,2025-07-29 Deliver flexible scalable and high performance data storage that s perfect for AI and other modern applications with MongoDB 8 0 and MongoDB Atlas multi cloud data platform In MongoDB 8 0 in Action Third Edition you ll find comprehensive coverage of the latest version of MongoDB 8 0 and the MongoDB Atlas multi cloud data platform Learn to utilize MongoDB s flexible schema design for data modeling scale applications effectively using advanced sharding features integrate full text and vector based semantic search and more This

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Indexing data in bulk and reindexing and aliasing operations Learning search concepts relevancy scores and similarity algorithms Elasticsearch in Action Second Edition teaches you to build scalable search applications using Elasticsearch This completely new edition explores Elasticsearch fundamentals from the ground up You ll deep dive into design principles search architectures and Elasticsearch s essential APIs Every chapter is clearly illustrated with diagrams and hands on examples You ll even explore real world use cases for full text search data visualizations and machine learning Plus its comprehensive nature means you ll keep coming back to the book as a handy reference Foreword by Shay Banon About the technology Create fully professional grade search engines with Elasticsearch and Kibana Rewritten for the latest version of Elasticsearch this practical book explores Elasticsearch s high level architecture reveals infrastructure patterns and walks through the search and analytics capabilities of numerous Elasticsearch APIs About the book Elasticsearch in Action Second Edition teaches you how to add modern search features to websites and applications using Elasticsearch 8 In it you ll quickly progress from the basics of installation and configuring clusters to indexing documents advanced aggregations and putting your servers into production You ll especially appreciate the mix of technical detail with techniques for designing great search experiences What s inside Understanding search architecture Full text and term level search queries Analytics and aggregations High level visualizations in Kibana Configure scale and tune clusters About the reader For application developers comfortable with scripting and command line applications About the author Madhusudhan Konda is a full stack lead engineer architect mentor and conference speaker He delivers live online training on Elasticsearch and the Elastic Stack Table of Contents 1 Overview 2 Getting started 3 Architecture 4 Mapping 5 Working with documents 6 Indexing operations 7 Text analysis 8 Introducing search 9 Term level search 10 Full text searches 11 Compound queries 12 Advanced search 13 Aggregations 14 Administration 15 Performance and troubleshooting **Mahout in Action** Sean Owen,B. Ellen Friedman,Robin Anil,Ted Dunning,2011-10-04 Summary Mahout in Action is a hands on introduction to machine learning with Apache Mahout Following real world examples the book presents practical use cases and then illustrates how Mahout can be applied to solve them Includes a free audio and video enhanced ebook About the Technology A computer system that learns and adapts as it collects data can be really powerful Mahout Apache s open source machine learning project captures the core algorithms of recommendation systems classification and clustering in ready to use scalable libraries With Mahout you can immediately apply to your own projects the machine learning techniques that drive Amazon Netflix and others About this Book This book covers machine learning using Apache Mahout Based on experience with real world applications it introduces practical use cases and illustrates how Mahout can be applied to solve them It places particular focus on issues of scalability and how to apply these techniques against large data sets using the Apache Hadoop framework This book is written for developers familiar with Java no prior experience with Mahout is assumed Owners of a Manning pBook purchased anywhere in the world can download a free eBook from manning com at any time They can do so multiple times and in any or

all formats available PDF ePub or Kindle To do so customers must register their printed copy on Manning s site by creating a user account and then following instructions printed on the pBook registration insert at the front of the book What s Inside Use group data to make individual recommendations Find logical clusters within your data Filter and refine with on the fly classification Free audio and video extras Table of Contents Meet Apache Mahout PART 1 RECOMMENDATIONS Introducing recommenders Representing recommender data Making recommendations Taking recommenders to production Distributing recommendation computations PART 2 CLUSTERING Introduction to clustering Representing data Clustering algorithms in Mahout Evaluating and improving clustering quality Taking clustering to production Real world applications of clustering PART 3 CLASSIFICATION Introduction to classification Training a classifier Evaluating and tuning a classifier Deploying a classifier Case study Shop It To Me   Restlet in Action Thierry Templier,Thierry Boileau,Jerome Louvel,2012-09-25 Summary Restlet in Action gets you started with the Restlet Framework and the REST architecture style You ll create and deploy applications in record time while learning to use popular RESTful Web APIs effectively This book looks at the many aspects of web development on both the server and client side along with cloud computing mobile Android devices and Semantic Web applications About the Technology In a RESTful architecture any component can act if needed as both client and server this is flexible and powerful but tricky to implement The Restlet project is a reference implementation with a Java based API and everything you need to build servers and web clients that integrate with most web and enterprise technologies About the Book Restlet in Action introduces the Restlet Framework and RESTful web APIs You ll see how to easily create and deploy your own web API while learning to consume other web APIs effectively You ll learn about designing securing versioning documentation optimizing and more on both the server and client side as well as about cloud computing mobile Android devices and Semantic Web applications The book requires a basic knowledge of Java and the web but no prior exposure to REST or Restlet Purchase of the print book comes with an offer of a free PDF ePub and Kindle eBook from Manning Also available is all code from the book What s Inside Written by the creators of Restlet How to create your own web API How to deploy on cloud and mobile platforms Focus on Android Google App Engine Google Web Toolkit and OSGi technologies Table of Contents PART 1 GETTING STARTED Introducing the Restlet Framework Beginning a Restlet application Deploying a Restlet application PART 2 GETTING READY TO ROLL OUT Producing and consuming Restlet representations Securing a Restlet application Documenting and versioning a Restlet application Enhancing a Restlet application with recipes and best practices PART 3 FURTHER USE POSSIBILITIES Using Restlet with cloud platforms Using Restlet in browsers and mobile devices Embracing hypermedia and the Semantic Web The future of Restlet   **Grails in Action** Peter Ledbrook,Glen Smith,2014-06-10 Summary Grails in Action Second Edition is a comprehensive introduction to Grails 2 focused on making you super productive fast In this totally revised new edition you ll master Grails 2 3 core skills as you apply TDD techniques to developing a full scale Twitter clone Along the way you ll learn the latest single page web app

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discover social features tagging ratings and more You ll also explore the Portlet 2 0 API and learn to create custom themes and reusable templates Experienced developers will learn how to use new Liferay APIs to build social and collaborative sites use the message bus and workflow implement indexing and search and more This book was developed in close collaboration with Liferay engineers so it answers the right questions and answers them in depth No experience with Liferay or the Portlets API is required but basic knowledge of Java and web technology is assumed Purchase of the print book comes with an offer of a free PDF ePub and Kindle eBook from Manning Also available is all code from the book What s Inside Complete coverage of Liferay Portal 6 Covers both the commercial and open source versions Custom portlet development using the Portlet 2 0 spec Liferay s social network API Add functionality with hooks and Ext plugins Table of Contents PART 1 WORKING WITH LIFERAY AND PORTLETS The Liferay difference Getting started with the Liferay development platform PART 2 WRITING APPLICATIONS ON LIFERAY S PLATFORM A data driven portlet made easy MVC the Liferay way Designing your site with themes and layout templates Making your site social Enabling user collaboration PART 3 CUSTOMIZING LIFERAY Hooks Extending Liferay effectively A tour of Liferay APIs   **Azure in Action** Brian Prince,Chris Hay,2010-10-21 Azure in Action is a fast paced tutorial intended for architects and developers looking to develop cloud based applications on the Windows Azure Platform Written by two of Microsoft s leading Azure evangelists it s designed both for readers new to cloud concepts and for those familiar with cloud development but new to Azure Starting with core concepts the book explores designing and scaling front end and back end services that run in the cloud and more advanced scenarios in Windows Azure Later chapters introduce the rest of the Azure Services Platform with a particular focus on SQL Azure Database   **Hadoop in Action** Chuck Lam,2010-11-30 Hadoop in Action teaches readers how to use Hadoop and write MapReduce programs The intended readers are programmers architects and project managers who have to process large amounts of data offline Hadoop in Action will lead the reader from obtaining a copy of Hadoop to setting it up in a cluster and writing data analytic programs The book begins by making the basic idea of Hadoop and MapReduce easier to grasp by applying the default Hadoop installation to a few easy to follow tasks such as analyzing changes in word frequency across a body of documents The book continues through the basic concepts of MapReduce applications developed using Hadoop including a close look at framework components use of Hadoop for a variety of data analysis tasks and numerous examples of Hadoop in action Hadoop in Action will explain how to use Hadoop and present design patterns and practices of programming MapReduce MapReduce is a complex idea both conceptually and in its implementation and Hadoop users are challenged to learn all the knobs and levers for running Hadoop This book takes you beyond the mechanics of running Hadoop teaching you to write meaningful programs in a MapReduce framework This book assumes the reader will have a basic familiarity with Java as most code examples will be written in Java Familiarity with basic statistical concepts e g histogram correlation will help the reader appreciate the more advanced data processing examples Purchase of the print

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Table of Contents Lucene In Action

1. Understanding the eBook Lucene In Action
    - The Rise of Digital Reading Lucene In Action
    - Advantages of eBooks Over Traditional Books
2. Identifying Lucene In Action
    - Exploring Different Genres
    - Considering Fiction vs. Non-Fiction
    - Determining Your Reading Goals
3. Choosing the Right eBook Platform
    - Popular eBook Platforms
    - Features to Look for in an Lucene In Action
    - User-Friendly Interface
4. Exploring eBook Recommendations from Lucene In Action
    - Personalized Recommendations
    - Lucene In Action User Reviews and Ratings
    - Lucene In Action and Bestseller Lists
5. Accessing Lucene In Action Free and Paid eBooks
    - Lucene In Action Public Domain eBooks
    - Lucene In Action eBook Subscription Services
    - Lucene In Action Budget-Friendly Options

       ○ Interactive and Gamified eBooks

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