

Covers Apache Lucene 3.0

Lucene

IN ACTION

SECOND EDITION

Michael McCandless
Erik Hatcher
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Lucene In Action

Mathias Lux, Oge Marques



Lucene In Action:

Lucene in Action Otis Gospodnetić, Erik Hatcher, Michael McCandless, 2010-07-08 When Lucene first hit the scene five years ago it was nothing short of amazing. 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 feature into an indispensable part of most enterprise applications. Lucene now powers search in diverse companies including Akamai, Netflix, LinkedIn, Technorati, HotJobs, Epiphany, FedEx, Mayo Clinic, MIT, New Scientist Magazine and many others. Some things remain the same though Lucene still delivers high performance search features in a disarmingly easy to use API. Due to its vibrant and diverse open source community of developers and users Lucene is relentlessly improving with evolutions to APIs, significant new features such as payloads and a huge increase as much as 8x in indexing speed with Lucene 2.3. And with clear writing, reusable examples and unmatched advice on best practices, Lucene in Action Second Edition is still the definitive guide to developing 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

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 eBook 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 eBook 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
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Case study Shop It To Me **Deep Learning for Search** Tommaso Teofili, 2019-06-02 Summary Deep Learning for Search
teaches you how to improve the effectiveness of your search by implementing neural network based techniques By the time
you re finished with the book you ll be ready to build amazing search engines that deliver the results your users need and
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and search basics No experience with deep learning or NLP needed About the Author Tommaso Teofili is a software engineer
with a passion for open source and machine learning As a member of the Apache Software Foundation he contributes to a
number of open source projects ranging from topics like information retrieval such as Lucene and Solr to natural language
processing and machine translation including OpenNLP Joshua and UIMA He currently works at Adobe developing search
and indexing infrastructure components and researching the areas of natural language processing information retrieval and
deep learning He has presented search and machine learning talks at conferences including BerlinBuzzwords International
Conference on Computational Science ApacheCon EclipseCon and others You can find him on Twitter at tteofili Table of
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This concise book is for library programmers who want to learn to use MARC4J to process bibliographic data MARC4J is an
open source software library for working with MARC MARCXML and related bibliographic standards in Java The library is
designed to bridge the gap between MARC and XML Crosswalking provides useful information for both developers learning
about MARC4J for the first time and developers returning for reference and more advanced material The chapters provide

many reusable examples while appendixes provide a reference to the API and the command line utilities **Hibernate Search in Action** Emmanuel Bernard, John Griffin, 2008-12-20 Enterprise and web applications require full featured Google quality search capabilities but such features are notoriously difficult to implement and maintain Hibernate Search builds on the Lucene feature set and offers an easy to implement interface that integrates seamlessly with Hibernate the leading data persistence solution for Java applications Hibernate Search in Action introduces both the principles of enterprise search and the implementation details a Java developer will need to use Hibernate Search effectively This book blends the insights of the Hibernate Search lead developer with the practical techniques required to index and manipulate data assemble and execute search queries and create smart filters for better search results Along the way the reader masters performance boosting concepts like using Hibernate Search in a clustered environment and integrating with the features already in your applications This book assumes you're a competent Java developer with some experience using 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

Elasticsearch Florian Hopf, 2016-01-08 Elasticsearch ist ein auf Apache Lucene basierender Suchserver der JSON Dokumente speichern und durchsuchen kann Durch den verteilten Aufbau ist die Ablage sehr großer Datenmengen möglich Neben Volltextinhalten können auch strukturierte Daten verwaltet und mit Aggregationen leicht gruppiert und ausgelesen werden Dokumente Suchanfragen und administrative Aufgaben werden in JSON formuliert und per HTTP oder über die Java API ausgetauscht Das Buch stellt anhand eines durchgehenden Beispiels die Nutzung von Elasticsearch vor Nach einem einführenden Kapitel in dem eine klassische Suchanwendung von Grund auf aufgebaut wird werden in den anschließenden Kapiteln jeweils unterschiedliche Aspekte genauer beleuchtet Unter anderem werden die folgenden Themenbereiche angesprochen Umgang mit Text Relevanz in Suchergebnissen Möglichkeiten der Indizierung Verteilung der Daten Datenmodellierung Aggregationen Aspekte des Produktivbetriebs Logdaten in Elasticsearch Der Großteil des Buches ist unabhängig von der Programmiersprache gehalten es wird jedoch auch auf die Java und JavaScript APIs zum Zugriff auf Elasticsearch eingegangen Der Leser hat nach der Lektüre das notwendige Rüstzeug um eigene Anwendungen auf Basis von Elasticsearch umzusetzen *Visual Information Retrieval Using Java and LIRE* Mathias Lux, Oge Marques, 2022-05-31 Visual information retrieval VIR is an active and vibrant research area which attempts at providing means for organizing indexing annotating and retrieving visual information images and videos from large unstructured repositories The goal of VIR is to retrieve matches ranked by their relevance to a given query which is often expressed as an example image and/or a series of keywords During its early years 1995-2000 the research efforts were dominated by content based approaches contributed primarily by the image and video processing community During the past decade it was widely recognized that the challenges imposed by the lack of coincidence between an image's visual contents and its semantic interpretation also known as semantic gap required a clever use of textual metadata in addition to information extracted from the image's pixel contents

to make image and video retrieval solutions efficient and effective The need to bridge or at least narrow the semantic gap has been one of the driving forces behind current VIR research Additionally other related research problems and market opportunities have started to emerge offering a broad range of exciting problems for computer scientists and engineers to work on In this introductory book we focus on a subset of VIR problems where the media consists of images and the indexing and retrieval methods are based on the pixel contents of those images an approach known as content based image retrieval CBIR We present an implementation oriented overview of CBIR concepts techniques algorithms and figures of merit Most chapters are supported by examples written in Java using Lucene an open source Java based indexing and search implementation and LIRE Lucene Image REtrieval an open source Java based library for CBIR Table of Contents Introduction Information Retrieval Selected Concepts and Techniques Visual Features Indexing Visual Features LIRE An Extensible Java CBIR Library Concluding Remarks *Big Data Management And Analytics* Brij B Gupta,Mamta,2023-12-05

With the proliferation of information big data management and analysis have become an indispensable part of any system to handle such amounts of data The amount of data generated by the multitude of interconnected devices increases exponentially making the storage and processing of these data a real challenge Big data management and analytics have gained momentum in almost every industry ranging from finance or healthcare Big data can reveal key insights if handled and analyzed properly it has great application potential to improve the working of any industry This book covers the spectrum aspects of big data from the preliminary level to specific case studies It will help readers gain knowledge of the big data landscape Highlights of the topics covered include description of the Big Data ecosystem real world instances of big data issues how the Vs of Big Data volume velocity variety veracity valence and value affect data collection monitoring storage analysis and reporting structural process to get value out of Big Data and recognize the differences between a standard database management system and a big data management system Readers will gain insights into choice of data models data extraction data integration to solve large data problems data modelling using machine learning techniques Spark s scalable machine learning techniques modeling a big data problem into a graph database and performing scalable analytical operations over the graph and different tools and techniques for processing big data and its applications including in healthcare and finance *MongoDB in Action, Third Edition* Arek Borucki,2025-08-19 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 totally revised new edition delivers engaging hands on tutorials and examples that put MongoDB into action In MongoDB 8 0 in Action Third Edition you ll Master new features in MongoDB 8 0 Create your first free Atlas cluster using the

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electronic commerce brand promotion and customer loyalty this book is ideally designed for academicians researchers
students and managers seeking current research on the digital economy **Professional DNN7** Shaun Walker,Bruce
Chapman,Cathal Connolly,Peter Donker,Israel Martinez,Charles Nurse,Chris Paterra,Clinton Bland,Ashish Prasad,Nathan
Rover,Mitchel Sellers,Dennis Shiao,Will Strohl,Erik van Ballegoij,Scott Willhite,Ralph Williams, Jr.,2015-05-13 A variety of
positive change has recently taken place in the DNN ecosystem code base and underlying technology **Professional DNN7**
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updates Looking to ramp up your knowledge of DNN7 If so this book is for you In this book you ll learn how to install
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was overhauled providing a much improved user experience dramatic improvements in functionality performance were made
including support for social collaboration and mobile devices Recently API s that make modern client side development easy
have been introduced as well The underlying technology platform has migrated from ASP NET 2 0 to ASP NET 4 0 and DNN
has also integrated Microsoft s Web API as the service framework at the core of the DNN solution All of these enhancements
provide developers with a lot of power in one solution In previous *Professional DotNetNuke* books *DotNetNuke* founder
Shaun Walker authored a popular introductory chapter covering the evolution of the DNN open source project He will
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Computing and Intelligent Engineering Khalid Saeed, Nabendu Chaki, Bibudhendu Pati, Sambit Bakshi, Durga Prasad Mohapatra, 2017-12-21 The book focuses on both theory and applications in the broad areas of communication technology computer science and information security This two volume book contains the Proceedings of International Conference on Advanced Computing and Intelligent Engineering These volumes bring together academic scientists professors research scholars and students to share and disseminate information on knowledge and scientific research works related to computing networking and informatics to discuss the practical challenges encountered and the solutions adopted The book also promotes translation of basic research into applied investigation and convert applied investigation into practice

Elasticsearch in Action, Second Edition Madhusudhan Konda, 2024-01-02 Build powerful production ready search applications using the incredible features of Elasticsearch In *Elasticsearch in Action Second Edition* you will discover Architecture concepts and fundamentals of Elasticsearch Installing configuring and running Elasticsearch and Kibana Creating an index with custom settings Data types mapping fundamentals and templates Fundamentals of text analysis and working with text analyzers Indexing deleting and updating documents 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 Information Computing and Applications Chunfeng Liu, Leizhen Wang, Aimin Yang, 2012-09-07 This two volume set of CCIS 307 and CCIS 308 constitutes the refereed proceedings of the Third International Conference on Information Computing and Applications ICICA 2012 held in Chengde China in September 2012 The 330 revised full papers presented in both volumes were carefully reviewed and selected from 1089 submissions The papers are organized in topical sections on internet computing and applications multimedia networking and computing intelligent computing and applications computational statistics and applications knowledge management and applications communication technology and applications information management system control engineering and applications business intelligence and applications cloud and evolutionary computing computational genomics and proteomics engineering management and applications

Guide to Cloud Computing Richard Hill, Laurie Hirsch, Peter Lake, Siavash Moshiri, 2012-11-28 This book describes the landscape of cloud computing from first principles leading the reader step by step through the process of building and configuring a cloud environment The book not only considers the technologies for designing and creating cloud computing platforms but also the business models and frameworks in real world implementation of cloud platforms Emphasis is placed on learning by doing and readers are encouraged to experiment with a range of different tools and approaches Topics and features includes review questions hands on exercises study activities and discussion topics throughout the text demonstrates the approaches used to build cloud computing infrastructures reviews the social economic and political aspects of the on going growth in cloud computing use discusses legal and security concerns in cloud computing examines techniques for the appraisal of financial investment into cloud computing identifies areas for further research within this rapidly moving field **Multilingual Information Access Evaluation I - Text Retrieval Experiments** Carol

Peters, Giorgio Maria Di Nunzio, Mikko Kurimo, Thomas Mandl, Djamel Mostefa, Anselmo Penas, Giovanna Roda, 2010-09-13 This book constitutes the thoroughly refereed proceedings of the 10th Workshop of the Cross Language Evaluation Forum CLEF 2010 held in Corfu Greece in September October 2009 The volume reports experiments on various types of textual document collections It is divided into six main sections presenting the results of the following tracks Multilingual Document Retrieval Ad Hoc Multiple Language Question Answering QA CLEF Multilingual Information Filtering INFILE CLEF Intellectual Property CLEF IP and Log File Analysis LogCLEF plus the activities of the MorphoChallenge Program

Proceedings of the 2012 International Conference on Communication, Electronics and Automation Engineering George Yang, 2012-08-14 This book is a collection of selected papers from the 2011 International Conference on Communications Electronics and Automation Engineering held in Xi an China August 23 25 2012 It presents some of the latest research findings in a broad range of interdisciplinary fields related to communications electronics and automation engineering Specific emphasis is placed on the following topics automation control data mining and statistics simulation and mathematical modeling human factors and cognitive engineering web technology optimization and algorithm and network

communications The prime objective of the book is to familiarize the readers with cutting edge developments in the research of electronics and automation engineering with a variety of applications Hopefully the book can help researchers to identify research trends in many areas to learn the new methods and tools and to spark innovative ideas *Professional Hadoop Solutions* Boris Lublinsky, Kevin T. Smith, Alexey Yakubovich, 2013-09-12 The go to guidebook for deploying Big Data solutions with Hadoop Today's enterprise architects need to understand how the Hadoop frameworks and APIs fit together and how they can be integrated to deliver real world solutions This book is a practical detailed guide to building and implementing those solutions with code level instruction in the popular Wrox tradition It covers storing data with HDFS and Hbase processing data with MapReduce and automating data processing with Oozie Hadoop security running Hadoop with Amazon Web Services best practices and automating Hadoop processes in real time are also covered in depth With in depth code examples in Java and XML and the latest on recent additions to the Hadoop ecosystem this complete resource also covers the use of APIs exposing their inner workings and allowing architects and developers to better leverage and customize them The ultimate guide for developers designers and architects who need to build and deploy Hadoop applications Covers storing and processing data with various technologies automating data processing Hadoop security and delivering real time solutions Includes detailed real world examples and code level guidelines Explains when why and how to use these tools effectively Written by a team of Hadoop experts in the programmer to programmer Wrox style *Professional Hadoop Solutions* is the reference enterprise architects and developers need to maximize the power of Hadoop **Liferay in Action** Rich Sezov, 2011-09-19 Summary *Liferay in Action* is a comprehensive and authoritative guide to building portals on the Liferay 6 platform Fully supported and authorized by Liferay this book guides you smoothly from your first exposure to Liferay through the crucial day to day tasks of building and maintaining an enterprise portal that works well within your existing IT infrastructure About the Technology A portal is a website built around a collection of components that request display and share information Liferay Portal 6 an enterprise ready development platform makes it a snap to build portals that integrate with your existing backend systems and provide a rich interactive user experience Because Liferay uses standard Java and JavaScript along with built in SOAP and JSON support for web services developers can be productive immediately And since it's available in both a free open source version as well as a fully supported commercial edition it's an affordable solution for almost any business or organization About the Book *Liferay in Action* is the official guide to building Liferay portal applications using Java and JavaScript If you've never used Liferay before don't worry This book starts with the basics setting up your development environment and creating a working portal Then it builds on that foundation to help you 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

Lucene In Action Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the power of words has be more evident than ever. They have the capability to inspire, provoke, and ignite change. Such could be the essence of the book **Lucene In Action**, a literary masterpiece that delves deep in to the significance of words and their effect on our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall impact on readers.

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Lucene In Action Introduction

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