

# Lucene 4 Cookbook

By Edwood Ng, Vineeth Mohan

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**Lucene 4 Cookbook** By Edwood Ng, Vineeth Mohan

**Over 70 hands-on recipes to quickly and effectively integrate Lucene into your search application**

## About This Book

- Make the most of Lucene by understanding its philosophy and leveraging the data searching capability of your application
- Explore techniques to design scalable and succinct search applications
- Packed with clear, step-by-step recipes to walk you through the capabilities of Lucene

## Who This Book Is For

This book is for software developers who are new to Lucene and who want to explore the more advanced topics to build a search engine. Knowledge of Java is necessary to follow the code samples. You will learn core concepts, best practices, and also advanced features, in order to build an effective search application.

## What You Will Learn

- Explore the best practices to make the most of your search application
- Create and write documents in an index
- Customize scoring and boosting in your application to influence search results
- Expand Lucene's functionality, such as spatial searching and faceting with add-on modules
- Load and initialize the library and build a search index of data
- Understand trading between NRT latency and throughput
- Optimize your search applications by employing features such as near real-time (NRT) search

## In Detail

Lucene 4 Cookbook is a practical guide that shows you how to build a scalable

search engine for your application, from an internal documentation search to a wide-scale web implementation with millions of records. Starting with helping you to successfully install Apache Lucene, it will guide you through creating your first search application. Furthermore, the book walks you through analyzing your text and indexing your data to leverage the performance of your search application. As you progress through the chapters, you will learn to effectively search your indexes and successfully employ real-time searching.

The chapters start off with simple concepts and build up to complex solutions that should help you on your way to becoming a search engine expert.

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### Editorial Review

About the Author

#### Edwood Ng

Edwood Ng is a technologist with over a decade of experience in building scalable solutions from proprietary implementations to client-facing web-based applications. Currently, he's the director of DevOps at Wellframe, leading infrastructure and DevOps operations. His background in search engine began at Endeca Technologies in 2004, where he was a technical consultant helping numerous clients to architect and implement faceted search solutions. After Endeca, he drew on his knowledge and began designing and building Lucene-based solutions. His first Lucene implementation that went to production was the search engine behind <http://UpDown.com>. From there on, he continued to create search applications using Lucene extensively to deliver robust and scalable systems for his clients. Edwood is a supporter of an open source software. He has also contributed to the plugin `sf118NGettextPluralPlugin` to the Symphony project.

#### Vineeth Mohan

Vineeth Mohan is a data scientist whose major expertise lies in search analytics and data science. His career started at Yahoo! India, working with a team facilitated by a real-time feed processing platform based on Hadoop across all verticals in Yahoo!. He was also in the team that migrated Right Media technologies to Yahoo! stack. He then moved to Algotree, where he worked across many data science projects such as technical pattern detection in TimeSeries. Later, he designed a real-time news analysis platform based on natural language processing and machine learning approaches. He was also the architect of the search solution for this. Vineeth is passionate about Big Data and data science and has extensive knowledge and experience in Elasticsearch/Solr/Lucene and algorithm design.

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**Daniel Guy:**

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**Kathleen Elder:**

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