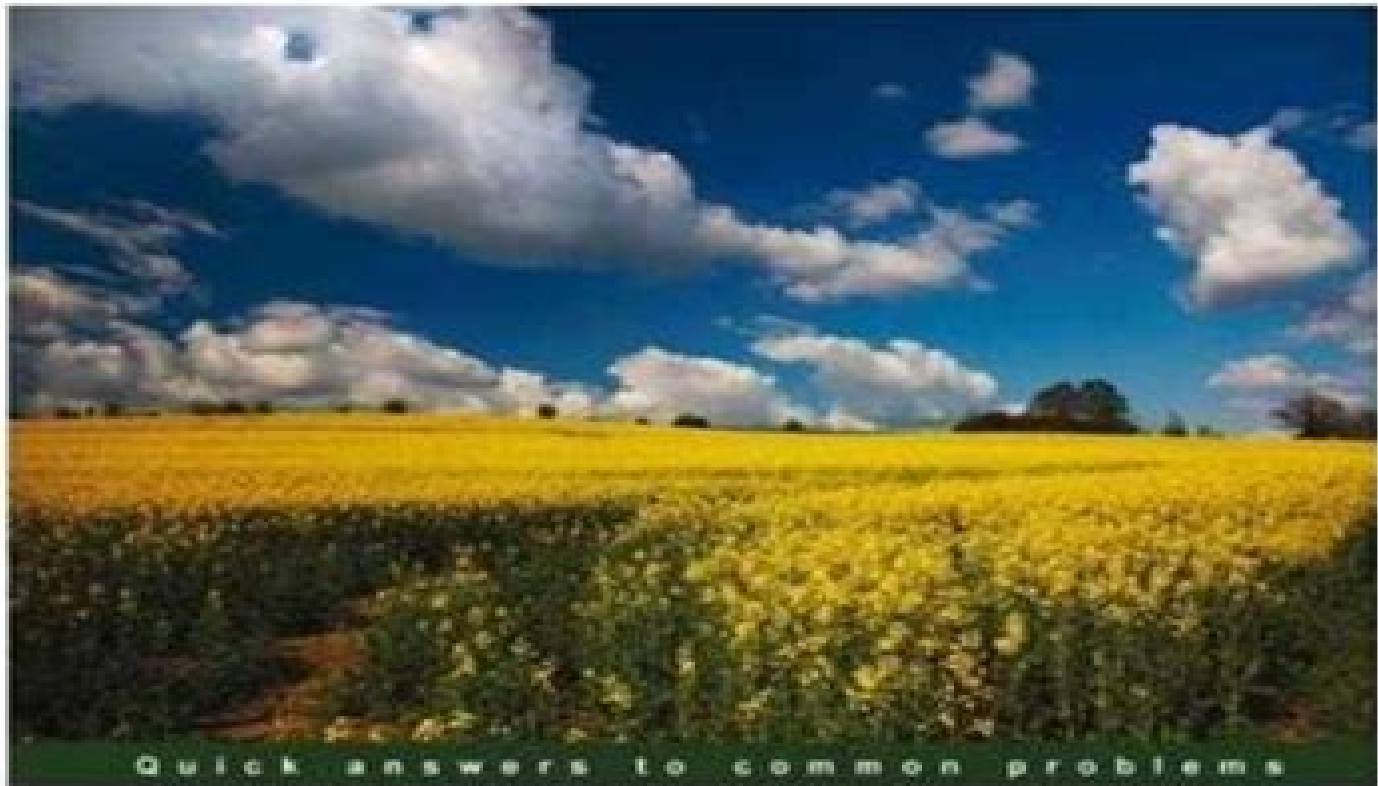




Java 7 New Features Cookbook

Over 100 comprehensive recipes to get you up-to-speed with all the exciting new features of Java 7

Richard M. Reese
Jennifer L. Reese

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**Richard M. Reese, Jennifer L.
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Java 7 New Features Cookbook Richard M. Reese, Jennifer L. Reese, 2012 Each recipe comprises step by step instructions followed by an analysis of what was done in each task and other useful information The book is designed so that you can read it chapter by chapter or look at the list of recipes and refer to them in no particular order Each example comes with its expected output to make your learning even easier This book is designed to bring those who are familiar with Java up to speed on the new features found in Java 7 [Natural Language Processing with Java Cookbook](#) Richard M.

Reese, 2019-04-25 A problem solution guide to encounter various NLP tasks utilizing Java open source libraries and cloud based solutions Key Features Perform simple to complex NLP text processing tasks using modern Java libraries Extract relationships between different text complexities using a problem solution approach Utilize cloud based APIs to perform machine translation operations Book Description Natural Language Processing NLP has become one of the prime technologies for processing very large amounts of unstructured data from disparate information sources This book includes a wide set of recipes and quick methods that solve challenges in text syntax semantics and speech tasks At the beginning of the book you ll learn important NLP techniques such as identifying parts of speech tagging words and analyzing word semantics You will learn how to perform lexical analysis and use machine learning techniques to speed up NLP operations With independent recipes you will explore techniques for customizing your existing NLP engines models using Java libraries such as OpenNLP and the Stanford NLP library You will also learn how to use NLP processing features from cloud based sources including Google and Amazon s AWS You will master core tasks such as stemming lemmatization part of speech tagging and named entity recognition You will also learn about sentiment analysis semantic text similarity language identification machine translation and text summarization By the end of this book you will be ready to become a professional NLP expert using a problem solution approach to analyze any sort of text sentences or semantic words What you will learn Explore how to use tokenizers in NLP processing Implement NLP techniques in machine learning and deep learning applications Identify sentences within the text and learn how to train specialized NER models Learn how to classify documents and perform sentiment analysis Find semantic similarities between text elements and extract text from a variety of sources Preprocess text from a variety of data sources Learn how to identify and translate languages Who this book is for This book is for data scientists NLP engineers and machine learning developers who want to perform their work on linguistic applications faster with the use of popular libraries on JVM machines This book will help you build real world NLP applications using a recipe based approach Prior knowledge of Natural Language Processing basics and Java programming is expected *Mastering Concurrency Programming with Java 8* Javier Fernández González, 2016-02-29 Master the principles and techniques of multithreaded programming with the Java 8 Concurrency API About This Book Implement concurrent applications using the Java 8 Concurrency API and its new components Improve the performance of your applications or process more data at the

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Learning and Big Data frameworks Who This Book Is For This course is meant for Java developers who are comfortable developing applications in Java and now want to enter the world of data science or wish to build intelligent applications Aspiring data scientists with some understanding of the Java programming language will also find this book to be very helpful If you are willing to build efficient data science applications and bring them in the enterprise environment without changing your existing Java stack this book is for you What You Will Learn Understand the key concepts of data science Explore the data science ecosystem available in Java Work with the Java APIs and techniques used to perform efficient data analysis Find out how to approach different machine learning problems with Java Process unstructured information such as natural language text or images and create your own search Learn how to build deep neural networks with DeepLearning4j Build data science applications that scale and process large amounts of data Deploy data science models to production and evaluate their performance In Detail Data science is concerned with extracting knowledge and insights from a wide variety of data sources to analyse patterns or predict future behaviour It draws from a wide array of disciplines including statistics computer science mathematics machine learning and data mining In this course we cover the basic as well as advanced data science concepts and how they are implemented using the popular Java tools and libraries The course starts with an introduction of data science followed by the basic data science tasks of data collection data cleaning data analysis and data visualization This is followed by a discussion of statistical techniques and more advanced topics including machine learning neural networks and deep learning You will examine the major categories of data analysis including text visual and audio data followed by a discussion of resources that support parallel implementation Throughout this course the chapters will illustrate a challenging data science problem and then go on to present a comprehensive Java based solution to tackle that problem You will cover a wide range of topics from classification and regression to dimensionality reduction and clustering deep learning and working with Big Data Finally you will see the different ways to deploy the model and evaluate it in production settings By the end of this course you will be up and running with various facets of data science using Java in no time at all This course contains premium content from two of our recently published popular titles Java for Data Science Mastering Java for Data Science Style and approach This course follows a tutorial approach providing examples of each of the concepts covered With a step by step instructional style this book covers various facets of data science and will get you up and running quickly

Machine Learning: End-to-End guide for Java developers Richard M. Reese, Jennifer L. Reese, Bostjan Kaluza, Dr. Uday Kamath, Krishna Choppella, 2017-10-05 Develop Implement and Tuneup your Machine Learning applications using the power of Java programming About This Book Detailed coverage on key machine learning topics with an emphasis on both theoretical and practical aspects Address predictive modeling problems using the most popular machine learning Java libraries A comprehensive course covering a wide spectrum of topics such as machine learning and natural language through practical use cases Who This Book Is For This course is the right resource for anyone

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learning Who This Book Is For This book is for Java developers who are comfortable developing applications in Java Those who now want to enter the world of data science or wish to build intelligent applications will find this book ideal Aspiring data scientists will also find this book very helpful What You Will Learn Understand the nature and key concepts used in the field of data science Grasp how data is collected cleaned and processed Become comfortable with key data analysis techniques See specialized analysis techniques centered on machine learning Master the effective visualization of your data Work with the Java APIs and techniques used to perform data analysis In Detail Data science is concerned with extracting knowledge and insights from a wide variety of data sources to analyse patterns or predict future behaviour It draws from a wide array of disciplines including statistics computer science mathematics machine learning and data mining In this book we cover the important data science concepts and how they are supported by Java as well as the often statistically challenging techniques to provide you with an understanding of their purpose and application The book starts with an introduction of data science followed by the basic data science tasks of data collection data cleaning data analysis and data visualization This is followed by a discussion of statistical techniques and more advanced topics including machine learning neural networks and deep learning The next section examines the major categories of data analysis including text visual and audio data followed by a discussion of resources that support parallel implementation The final chapter illustrates an in depth data science problem and provides a comprehensive Java based solution Due to the nature of the topic simple examples of techniques are presented early followed by a more detailed treatment later in the book This permits a more natural introduction to the techniques and concepts presented in the book Style and approach This book follows a tutorial approach providing examples of each of the major concepts covered With a step by step instructional style this book covers various facets of data science and will get you up and running quickly

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recognition Experiment with semi supervised learning and stream based data mining building high performing and real time predictive models Develop intelligent systems centered around various domains such as security Internet of Things social networking and moreIn DetailMachine Learning is one of the core area of Artificial Intelligence where computers are trained to self learn grow change and develop on their own without being explicitly programmed In this course we cover how Java is employed to build powerful machine learning models to address the problems being faced in the world of Data Science The course demonstrates complex data extraction and statistical analysis techniques supported by Java applying various machine learning methods exploring machine learning sub domains and exploring real world use cases such as recommendation systems fraud detection natural language processing and more using Java programming The course begins with an introduction to data science and basic data science tasks such as data collection data cleaning data analysis and data visualization The next section has a detailed overview of statistical techniques covering machine learning neural networks and deep learning The next couple of sections cover applying machine learning methods using Java to a variety of chores including classifying predicting forecasting market basket analysis clustering stream learning active learning semi supervised learning probabilistic graph modeling text mining and deep learning The last section highlights real world test cases such as performing activity recognition developing image recognition text classification and anomaly detection The course includes premium content from three of our most popular books Java for Data Science Machine Learning in Java Mastering Java Machine LearningOn completion of this course you will understand various machine learning techniques different machine learning java algorithms you can use to gain data insights building data models to analyze larger complex data sets and incubating applications using Java and machine learning algorithms in the field of artificial intelligence Style and approachThis comprehensive course proceeds from being a tutorial to a practical guide providing an introduction to machine learning and different machine learning techniques exploring machine learning with Java libraries and demonstrating real world machine learning use cases using the Java platform

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