

Download Free Java 7 Concurrency Cookbook Quick Answers To Common Problems By Fernandez Javier 2012 10 25 Pdf File Free

Java 7 Concurrency Cookbook (Quick Answers to Common Problems) Java 7 Concurrency Cookbook Java 9 Concurrency Cookbook Java 7 Concurrency Cookbook Java 9 Concurrency Cookbook - Second Edition Mastering Concurrency Programming with Java 9 Concurrency in C# Cookbook iOS 7 Programming Cookbook Mastering Concurrency Programming with Java 8 iOS 8 Swift Programming Cookbook Formal Methods and Software Engineering iOS 8 Swift Programming Cookbook Java 11 Cookbook Euro-Par 2017: Parallel Processing Workshops Reliable Software Technologies ¶ Ada-Europe 2016 Scala Cookbook ADO.NET 3.5 Cookbook Python Cookbook Concurrency in C# Cookbook PostgreSQL 14 Administration Cookbook KNative Cookbook The Art of Writing Efficient Programs Mathematica Cookbook Elasticsearch 7.0 Cookbook C++ Concurrency in Action Concurrency in .NET Java Concurrency in Practice PHP 7 Programming Cookbook Concurrent Programming on Windows Kotlin Cookbook Programming Concurrency on the JVM Rust Programming Cookbook Java Cookbook Modern C++ Programming Cookbook - Second Edition The Rust Programming Language (Covers Rust 2018) AWS Cookbook Microsoft Dynamics 365 Extensions Cookbook Violent Python RESTful Web Services Cookbook Concurrent Programming in Java

Java 7 Concurrency Cookbook (Quick Answers to Common Problems) Feb 22 2023 Master multithreaded program development with this Java 7 concurrency cookbook. Packed with real-world solutions, it takes you from basic to more sophisticated aspects of concurrency. For intermediate to advanced Java developers. Master all that Java 7 has to offer for concurrent programming Get to grips with thread management, the Fork/Join framework, concurrency classes and much more in this book and e-book A practical Cookbook packed with recipes for achieving the most important Java Concurrency tasks In Detail Java remains the global standard for developing various applications and enterprise software, and the launch of Java 7 brings with it exciting new capabilities for concurrent programming by way of the concurrency utilities enhancement. This allows developers to make the most of their applications with parallel task performance. "Java 7 Concurrency Cookbook" covers all elements of the Java concurrency API, providing essential recipes for taking advantage of the exciting new capabilities. On your computer, you can listen to music while you edit a Word document and read your emails, all at once! This is because your operating system allows the concurrency of tasks, much like the Java platform which offers various classes to execute concurrent tasks inside a Java program. "Java 7 Concurrency Cookbook" covers the most important features of the Java concurrency API, with special emphasis on the new capabilities of version 7. With each version, Java increases the available functionality to facilitate development of concurrent programs. This book covers the most important and useful mechanisms included in version 7 of the Java concurrency API, so you will be able to use them directly in your applications. "Java 7 Concurrency Cookbook" includes recipes to enable you to achieve everything from the basic management of threads and tasks, to the new Fork /Join framework, through synchronization mechanisms between tasks, different types of concurrent tasks that Java can execute, data structures that must be used in concurrent applications and the classes of the library that can be customized. With the step-by-step examples in this book you'll be able to apply the most important and useful features of the Java 7 concurrency API. What will you learn from this book Master the basics of thread management and synchronization before diving into higher level concurrency tasks Get to grips with exciting new concurrency features of Java 7, including the Phaser Class and the Fork/Join Framework Successfully delegate thread management to executors Customize some of the most useful classes of the Java concurrency API with real-world examples Learn to use high-level Java utilities to manage synchronization between threads Get a sneak peek at using Eclipse and NetBeans for debugging concurrency code Avoid problems with data inconsistency by learning the data structures you have to use in concurrent applications Take advantage of a bonus appendix packed with tips that every programmer should consider when developing a concurrent application Approach "Java 7 Concurrency Cookbook" is a practical Cookbook packed with real-world solutions. Intermediate-advanced level Java developers will learn from task-based recipes to use Java's concurrent API to program thread safe solutions.

Mastering Concurrency Programming with Java 9 Sep 17 2022 Master the principles to make applications robust, scalable and responsive About This Book Implement concurrent applications using the Java 9 Concurrency API and its new components Improve the performance of your applications and process more data at the same time, taking advantage of all of your resources Construct real-world examples related to machine learning, data mining, natural language processing, and more Who This Book Is For This book is for competent Java developers who have basic understanding of concurrency, but knowledge of effective implementation of concurrent programs or usage of streams for making processes more efficient is not required What You Will Learn Master the principles that every concurrent application must follow See how to parallelize a sequential algorithm to obtain better performance without data inconsistencies and deadlocks Get the most from the Java Concurrency API components Separate the thread management from the rest of the application with the Executor component Execute phased-based tasks in an efficient way with the Phaser components Solve problems using a parallelized version of the divide and conquer paradigm with the Fork / Join framework Find out how to use parallel Streams and Reactive Streams Implement the `map` and `reduce` and `map` and `collect` programming models Control the concurrent data structures and synchronization mechanisms provided by the Java Concurrency API Implement efficient solutions for some actual problems such as data mining, machine learning, and more In Detail Concurrency programming allows several large tasks to be divided into smaller sub-tasks, which are further processed as individual tasks that run in parallel. Java 9 includes a comprehensive API with lots of ready-to-use components for easily implementing powerful concurrency applications, but with high flexibility so you can adapt these components to your needs. The book starts with a full description of the design principles of concurrent applications and explains how to parallelize a sequential algorithm. You will then be introduced to Threads and Runnables, which are an integral part of Java 9's concurrency API. You will see how to use all the components of the Java concurrency API, from the basics to the most advanced techniques, and will implement them in powerful real-world concurrency applications. The book ends with a detailed description of the tools and techniques you can use to test a concurrent Java application, along with a brief insight into other concurrency mechanisms in JVM. Style and approach This is a complete guide that implements real-world examples of algorithms related to machine learning, data mining, and natural language processing in client/server environments. All the examples are explained using a step-by-step approach.

Kotlin Cookbook Aug 24 2020 Use Kotlin to build Android apps, web applications, and more while you learn the nuances of this popular language. With this unique cookbook, developers will learn how to apply this Java-based language to their own projects. Both experienced programmers and those new to Kotlin will benefit from the practical recipes in this book. Author Ken Kousen (Modern Java Recipes) shows you how to solve problems with Kotlin by concentrating on your own use cases rather than on basic syntax. You provide the context and this book supplies the answers. Already big in Android development, Kotlin can be used anywhere Java is applied, as well as for iOS development, native applications, JavaScript generation, and more. Jump in and build meaningful projects with Kotlin today. Apply functional programming concepts, including lambdas, sequences, and concurrency See how to use delegates, lazy initialization, and scope functions Explore Java interoperability and access Java libraries using Kotlin Add your own extension functions Use helpful libraries such as JUnit 5 Get practical advice for working with specific frameworks, like Android and Spring

Java 9 Concurrency Cookbook - Second Edition Oct 18 2022 Over 75-80 recipes for concurrent and parallel programming with Java 9 About This Book* Get detailed coverage of important recipes on multi-threading and parallel programming* This book takes a close look at the Java 9 APIs and their impact on concurrency* See practical examples on thread safety, high-performance classes, safe sharing, and a whole lot more Who This Book Is For The book is for Java developers and programmers at an intermediate to advanced level. It will be especially useful for developers who want to take advantage of task-based recipes using Java 9's concurrent API to program thread-safe solutions. What you will learn* Find out to manage the basic components of the Java Concurrency API* Use synchronization mechanisms to avoid data race conditions and other problems of concurrent applications* Separate the thread management from the rest of the application with the Executor framework* Solve problems using a parallelized version of the divide and conquer paradigm with the Fork / Join framework* Process massive data sets in an optimized way using streams and reactive streams* See which data structures we can use in concurrent applications and how to use them* Practice efficient techniques to test concurrent

applications* Get to know tips and tricks to design concurrent applications In Detail Writing concurrent and parallel programming applications is an integral skill for any Java programmer. Java 9 comes with a host of fantastic features, which includes significant performance improvements and new APIs. This book will take you through all the new APIs, showing you how to build parallel and multi-threaded applications. It covers all the elements of the Java Concurrency API, with essential recipes that will help you take advantage of the exciting new capabilities. This book will help you to build highly scalable, robust, and concurrent applications. The recipe-based approach is ideal for Java developers who want to learn concurrency in a practical and example-based manner. We will explore topics such as thread management, synchronization, executors, parallel and reactive streams, and a whole lot more.

Modern C++ Programming Cookbook - Second Edition Apr 19 2020 Over 100 recipes to help you overcome your difficulties with C++ programming and gain a deeper understanding of the working of modern C++ Key Features Explore the most important language and library features of C++17, including containers, algorithms, regular expressions, threads, and more, Get going with unit testing frameworks Boost.Test, Google Test and Catch, Extend your C++ knowledge and take your development skills to new heights by making your applications fast, robust, and scalable. Book Description C++ is one of the most widely used programming languages. Fast, efficient, and flexible, it is used to solve many problems. The latest versions of C++ have seen programmers change the way they code, giving up on the old-fashioned C-style programming and adopting modern C++ instead. Beginning with the modern language features, each recipe addresses a specific problem, with a discussion that explains the solution and offers insight into how it works. You will learn major concepts about the core programming language as well as common tasks faced while building a wide variety of software. You will learn about concepts such as concurrency, performance, meta-programming, lambda expressions, regular expressions, testing, and many more in the form of recipes. These recipes will ensure you can make your applications robust and fast. By the end of the book, you will understand the newer aspects of C++11/14/17 and will be able to overcome tasks that are time-consuming or would break your stride while developing. What you will learn Get to know about the new core language features and the problems they were intended to solve Understand the standard support for threading and concurrency and know how to put them on work for daily basic tasks Leverage C++'s features to get increased robustness and performance Explore the widely-used testing frameworks for C++ and implement various useful patterns and idioms Work with various types of strings and look at the various aspects of compilation Explore functions and callable objects with a focus on modern features Leverage the standard library and work with containers, algorithms, and iterators Use regular expressions for find and replace string operations Take advantage of the new filesystem library to work with files and directories Use the new utility additions to the standard library to solve common problems developers encounter including `string_view`, `any`, `optional` and `variant` types Who this book is for If you want to overcome difficult phases of development with C++ and leverage its features using modern programming practices, then this book is for you. The book is designed for both experienced C++ programmers as well as people with strong knowledge of OOP concepts.

AWS Cookbook Feb 16 2020 This practical guide provides over 100 self-contained recipes to help you creatively solve issues you may encounter in your AWS cloud endeavors. If you're comfortable with rudimentary scripting and general cloud concepts, this cookbook will give you what you need to both address foundational tasks and create high-level capabilities. AWS Cookbook provides real-world examples that incorporate best practices. Each recipe includes code that you can safely execute in a sandbox AWS account to ensure that it works. From there, you can customize the code to help construct your application or fix your specific existing problem. Recipes also include a discussion that explains the approach and provides context. This cookbook takes you beyond theory, providing the nuts and bolts you need to successfully build on AWS. You'll find recipes for: Organizing multiple accounts for enterprise deployments Locking down S3 buckets Analyzing IAM roles Autoscaling a containerized service Summarizing news articles Standing up a virtual call center Creating a chatbot that can pull answers from a knowledge repository Automating security group rule monitoring, looking for rogue traffic flows And more.

Concurrency in .NET Dec 28 2020 Summary Concurrency in .NET teaches you how to build concurrent and scalable programs in .NET using the functional paradigm. This intermediate-level guide is aimed at developers, architects, and passionate computer programmers who are interested in writing code with improved speed and effectiveness by adopting a declarative and pain-free programming style. Purchase of the print book includes a

free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Unlock the incredible performance built into your multi-processor machines. Concurrent applications run faster because they spread work across processor cores, performing several tasks at the same time. Modern tools and techniques on the .NET platform, including parallel LINQ, functional programming, asynchronous programming, and the Task Parallel Library, offer powerful alternatives to traditional thread-based concurrency. About the Book Concurrency in .NET teaches you to write code that delivers the speed you need for performance-sensitive applications. Featuring examples in both C# and F#, this book guides you through concurrent and parallel designs that emphasize functional programming in theory and practice. You'll start with the foundations of concurrency and master essential techniques and design practices to optimize code running on modern multiprocessor systems. What's Inside The most important concurrency abstractions Employing the agent programming model Implementing real-time event-stream processing Executing unbounded asynchronous operations Best concurrent practices and patterns that apply to all platforms About the Reader For readers skilled with C# or F#. About the Book Riccardo Terrell is a seasoned software engineer and Microsoft MVP who is passionate about functional programming. He has over 20 years' experience delivering cost-effective technology solutions in a competitive business environment. Table of Contents PART 1 - Benefits of functional programming applicable to concurrent programs Functional concurrency foundations Functional programming techniques for concurrency Functional data structures and immutability PART 2 - How to approach the different parts of a concurrent program The basics of processing big data: data parallelism, part 1 PLINQ and MapReduce: data parallelism, part 2 Real-time event streams: functional reactive programming Task-based functional parallelism Task asynchronicity for the win Asynchronous functional programming in F# Functional combinators for fluent concurrent programming Applying reactive programming everywhere with agents Parallel workflow and agent programming with TPL Dataflow PART 3 - Modern patterns of concurrent programming applied Recipes and design patterns for successful concurrent programming Building a scalable mobile app with concurrent functional programming

Java Cookbook May 21 2020 From lambda expressions and JavaFX 8 to new support for network programming and mobile development, Java 8 brings a wealth of changes. This cookbook helps you get up to speed right away with hundreds of hands-on recipes across a broad range of Java topics. You'll learn useful techniques for everything from debugging and data structures to GUI development and functional programming. Each recipe includes self-contained code solutions that you can freely use, along with a discussion of how and why they work. If you are familiar with Java basics, this cookbook will bolster your knowledge of the language in general and Java 8's main APIs in particular. Recipes include: Methods for compiling, running, and debugging Manipulating, comparing, and rearranging text Regular expressions for string- and pattern-matching Handling numbers, dates, and times Structuring data with collections, arrays, and other types Object-oriented and functional programming techniques Directory and filesystem operations Working with graphics, audio, and video GUI development, including JavaFX and handlers Network programming on both client and server Database access, using JPA, Hibernate, and JDBC Processing JSON and XML for data storage Multithreading and concurrency

Python Cookbook Sep 05 2021 If you need help writing programs in Python 3, or want to update older Python 2 code, this book is just the ticket. Packed with practical recipes written and tested with Python 3.3, this unique cookbook is for experienced Python programmers who want to focus on modern tools and idioms. Inside, you'll find complete recipes for more than a dozen topics, covering the core Python language as well as tasks common to a wide variety of application domains. Each recipe contains code samples you can use in your projects right away, along with a discussion about how and why the solution works. Topics include: Data Structures and Algorithms Strings and Text Numbers, Dates, and Times Iterators and Generators Files and I/O Data Encoding and Processing Functions Classes and Objects Metaprogramming Modules and Packages Network and Web Programming Concurrency Utility Scripting and System Administration Testing, Debugging, and Exceptions C Extensions

IOS 8 Swift Programming Cookbook Mar 11 2022 Entirely rewritten for Apple's Swift programming language, this updated cookbook helps you overcome the vexing issues you're likely to face when creating apps for iOS devices. You'll find hundreds of new and revised recipes for using the iOS 8 SDK, including techniques for working with Health data and HomeKit accessories, enhancing and animating graphics, storing and protecting data, sending and receiving notifications, and managing files and folders among them. Each recipe includes sample code on GitHub that you can use right away. Use CloudKit APIs to store information in the cloud with

ease Create custom keyboards and extensions Access users' health-related information with HealthKit Interact with accessories inside the user's home with HomeKit Create vibrant and lifelike user interfaces with UIKit Dynamics Use the Keychain to protect your app's data Develop location-aware and multitasking-aware apps Work with iOS 8's audio and video APIs Use Event Kit UI to manage calendars, dates, and events Take advantage of the accelerometer and the gyroscope Get working examples for implementing gesture recognizers Retrieve and manipulate contacts and groups from the Address Book Determine a camera's availability and access the Photo Library

PostgreSQL 14 Administration Cookbook Jul 03 2021 Administer, monitor, and replicate your PostgreSQL 14 database for efficient database management and maintenance Key Features Troubleshoot and tackle any administration and management problems in PostgreSQL 14 Find expert techniques for monitoring, fine-tuning, and securing your database Adopt efficient replication for high availability with PostgreSQL 14 Book Description PostgreSQL is a powerful, open-source database management system with an enviable reputation for high performance and stability. With many new features in its arsenal, PostgreSQL 14 allows you to scale up your PostgreSQL infrastructure. With this book, you'll take a step-by-step, recipe-based approach to effective PostgreSQL administration. This book will get you up and running with all the latest features of PostgreSQL 14 while helping you explore the entire database ecosystem. You'll learn how to tackle a variety of problems and pain points you may face as a database administrator such as creating tables, managing views, improving performance, and securing your database. As you make progress, the book will draw attention to important topics such as monitoring roles, validating backups, regular maintenance, and recovery of your PostgreSQL 14 database. This will help you understand roles, ensuring high availability, concurrency, and replication. Along with updated recipes, this book touches upon important areas like using generated columns, TOAST compression, PostgreSQL on the cloud, and much more. By the end of this PostgreSQL book, you'll have gained the knowledge you need to manage your PostgreSQL 14 database efficiently, both in the cloud and on-premise. What you will learn Plan, manage, and maintain PostgreSQL databases in production Work with the newly introduced features of PostgreSQL 14 Use pgAdmin or OmniDB to perform database administrator (DBA) tasks Use psql to write accurate and repeatable scripts Understand how to tackle real-world data issues with the help of examples Select and implement robust backup and recovery techniques in PostgreSQL 14 Deploy best practices for planning and designing live databases Who this book is for This Postgres 14 book is for database administrators, data architects, database developers, and anyone with an interest in planning and running live production databases using PostgreSQL 14. Those looking for hands-on solutions to any problem associated with PostgreSQL 14 administration will also find this book useful. Some experience with handling PostgreSQL databases will help you to make the most out of this book, however, it is a useful resource even if you are just beginning your Postgres journey.

Java 11 Cookbook Feb 10 2022 Solutions for modular, functional, reactive, GUI, network, and multithreaded programming Key Features Explore the latest features of Java 11 to implement efficient and reliable code Develop memory-efficient applications, understanding new garbage collection in Java 11 Create restful webservices and microservices with Spring boot 2 and Docker Book Description For more than three decades, Java has been on the forefront of developing robust software that has helped versatile businesses meet their requirements. Being one of the most widely used programming languages in history, it's imperative for Java developers to discover effective ways of using it in order to take full advantage of the power of the latest Java features. Java 11 Cookbook offers a range of software development solutions with simple and straightforward Java 11 code examples to help you build a modern software system. Starting with the installation of Java, each recipe addresses various problem by explaining the solution and offering insights into how it works. You'll explore the new features added to Java 11 that will make your application modular, secure, and fast. The book contains recipes on functional programming, GUI programming, concurrent programming, and database programming in Java. You'll also be taken through the new features introduced in JDK 18.3 and 18.9. By the end of this book, you'll be equipped with the skills required to write robust, scalable, and optimal Java code effectively. What you will learn Set up JDK and understand what's new in the JDK 11 installation Implement object-oriented designs using classes and interfaces Manage operating system processes Create a modular application with clear dependencies Build graphical user interfaces using JavaFX Use the new HTTP Client API Explore the new diagnostic features in Java 11 Discover how to use the new

JShell REPL tool Who this book is for The book is for intermediate-to-advanced Java programmers who want to make their applications fast, secure, and scalable.

Concurrent Programming on Windows Sep 24 2020 This practical book includes a tutorial of the entire set of Windows and .NET APIs required to write concurrent programs. Because so much of the threading and synchronization features of the platform are Windows-general, the author, Joe Duffy, focuses first on the general behavior and then on the API details of native and managed code. Interspersed among the tutorial are many difficult-to-discover, useful insights, and internal details about how things work.

PHP 7 Programming Cookbook Oct 26 2020 Over 80 recipes that will take your PHP 7 web development skills to the next level! About This Book This is the most up-to-date book in the market on PHP It covers the new features of version 7.x, best practices for server-side programming, and MVC frameworks The recipe-based approach will allow you to explore the unique capabilities that PHP offers to web programmers Who This Book Is For If you are an aspiring web developer, mobile developer, or backend programmer, then this book is for you as it will take your PHP programming skills to next level. Basic knowledge of PHP programming is assumed. What You Will Learn Use advanced PHP 7 features, such as the Abstract Syntax Tree, Uniform Variable Syntax, Scalar Type Hints, Generator Delegation, Anonymous Classes, and the Context Sensitive Lexer Discover where and when PHP 5 code needs to be re-written to avoid backwards-compatibility breaks Improve the overall application security and error handling by taking advantage of classes that implement the new throwable interface Solve practical real-world programming problems using PHP 7 Develop middle-wareclasses that allow PHP developers to gluedifferent open source libraries together seamlessly Define and Implement PSR-7 classes Create custom middleware using PSR-7 compliant classes Test and debug your code, and get to know the best practices In Detail PHP 7 comes with a myriad of new features and great tools to optimize your code and make your code perform faster than in previous versions. Most importantly, it allows you to maintain high traffic on your websites with low-cost hardware and servers through a multithreading web server. This book demonstrates intermediate to advanced PHP techniques with a focus on PHP 7. Each recipe is designed to solve practical, real-world problems faced by PHP developers like yourself every day. We also cover new ways of writing PHP code made possible only in version 7. In addition, we discuss backward-compatibility breaks and give you plenty of guidance on when and where PHP 5 code needs to be changed to produce the correct results when running under PHP 7. This book also incorporates the latest PHP 7.x features. By the end of the book, you will be equipped with the tools and skills required to deliver efficient applications for your websites and enterprises. Style and approach This book takes a recipe-based approach, with real-world examples that can serve as building blocks for a larger application. Each recipe is self-contained with no external dependencies. This book follows a problem-solution strategy so you understand how to deal with various scenarios you may encounter while using PHP 7 in your daily activities.

Mastering Concurrency Programming with Java 8 Jun 14 2022 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 same time, taking advantage of all of your resources. Construct real-world examples related to machine learning, data mining, image processing, and client/server environments Who This Book Is For If you are a competent Java developer with a good understanding of concurrency but have no knowledge of how to effectively implement concurrent programs or use streams to make processes more efficient, then this book is for you. What You Will Learn Design concurrent applications by converting a sequential algorithm into a concurrent one Discover how to avoid all the possible problems you can get in concurrent algorithms Use the Executor framework to manage concurrent tasks without creating threads Extend and modify Executors to adapt their behavior to your needs Solve problems using the divide and conquer technique and the Fork/Join framework Process massive data sets with parallel streams and Map/Reduce implementation Control data-race conditions using concurrent data structures and synchronization mechanisms Test and monitor concurrent applications In Detail Concurrency programming allows several large tasks to be divided into smaller sub-tasks, which are further processed as individual tasks that run in parallel. All the sub-tasks are combined together once the required results are achieved; they are then merged to get the final output. The whole process is very complex. This process goes from the design of concurrent algorithms to the testing phase where concurrent applications need extra attention. Java includes a comprehensive API with a lot of ready-to-use components to

implement powerful concurrency applications in an easy way, but with a high flexibility to adapt these components to your needs. The book starts with a full description of design principles of concurrent applications and how to parallelize a sequential algorithm. We'll show you how to use all the components of the Java Concurrency API from basics to the most advanced techniques to implement them in powerful concurrency applications in Java. You will be using real-world examples of complex algorithms related to machine learning, data mining, natural language processing, image processing in client / server environments. Next, you will learn how to use the most important components of the Java 8 Concurrency API: the Executor framework to execute multiple tasks in your applications, the Phaser class to implement concurrent tasks divided into phases, and the Fork/Join framework to implement concurrent tasks that can be split into smaller problems (using the divide and conquer technique). Toward the end, we will cover the new inclusions in Java 8 API, the Map and Reduce model, and the Map and Collect model. The book will also teach you about the data structures and synchronization utilities to avoid data-race conditions and other critical problems. Finally, the book ends with a detailed description of the tools and techniques that you can use to test a Java concurrent application. Style and approach A complete guide implementing real-world examples with algorithms related to machine learning, data mining, and natural language processing in client/server environments. All the examples are explained in a step-by-step approach.

Mathematica Cookbook Mar 31 2021 Mathematica Cookbook helps you master the application's core principles by walking you through real-world problems. Ideal for browsing, this book includes recipes for working with numerics, data structures, algebraic equations, calculus, and statistics. You'll also venture into exotic territory with recipes for data visualization using 2D and 3D graphic tools, image processing, and music. Although Mathematica 7 is a highly advanced computational platform, the recipes in this book make it accessible to everyone -- whether you're working on high school algebra, simple graphs, PhD-level computation, financial analysis, or advanced engineering models. Learn how to use Mathematica at a higher level with functional programming and pattern matching Delve into the rich library of functions for string and structured text manipulation Learn how to apply the tools to physics and engineering problems Draw on Mathematica's access to physics, chemistry, and biology data Get techniques for solving equations in computational finance Learn how to use Mathematica for sophisticated image processing Process music and audio as musical notes, analog waveforms, or digital sound samples

Java Concurrency in Practice Nov 26 2020 Threads are a fundamental part of the Java platform. As multicore processors become the norm, using concurrency effectively becomes essential for building high-performance applications. Java SE 5 and 6 are a huge step forward for the development of concurrent applications, with improvements to the Java Virtual Machine to support high-performance, highly scalable concurrent classes and a rich set of new concurrency building blocks. In Java Concurrency in Practice , the creators of these new facilities explain not only how they work and how to use them, but also the motivation and design patterns behind them. However, developing, testing, and debugging multithreaded programs can still be very difficult; it is all too easy to create concurrent programs that appear to work, but fail when it matters most: in production, under heavy load. Java Concurrency in Practice arms readers with both the theoretical underpinnings and concrete techniques for building reliable, scalable, maintainable concurrent applications. Rather than simply offering an inventory of concurrency APIs and mechanisms, it provides design rules, patterns, and mental models that make it easier to build concurrent programs that are both correct and performant. This book covers: Basic concepts of concurrency and thread safety Techniques for building and composing thread-safe classes Using the concurrency building blocks in java.util.concurrent Performance optimization dos and don'ts Testing concurrent programs Advanced topics such as atomic variables, nonblocking algorithms, and the Java Memory Model

The Rust Programming Language (Covers Rust 2018) Mar 19 2020 The official book on the Rust programming language, written by the Rust development team at the Mozilla Foundation, fully updated for Rust 2018. The Rust Programming Language is the official book on Rust: an open source systems programming language that helps you write faster, more reliable software. Rust offers control over low-level details (such as memory usage) in combination with high-level ergonomics, eliminating the hassle traditionally associated with low-level languages. The authors of The Rust Programming Language, members of the Rust Core Team, share their knowledge and experience to show you how to take full advantage of Rust's features--from installation to creating robust and

scalable programs. You'll begin with basics like creating functions, choosing data types, and binding variables and then move on to more advanced concepts, such as:
▫ Ownership and borrowing, lifetimes, and traits
▫ Using Rust's memory safety guarantees to build fast, safe programs
▫ Testing, error handling, and effective refactoring
▫ Generics, smart pointers, multithreading, trait objects, and advanced pattern matching
▫ Using Cargo, Rust's built-in package manager, to build, test, and document your code and manage dependencies
▫ How best to use Rust's advanced compiler with compiler-led programming techniques
You'll find plenty of code examples throughout the book, as well as three chapters dedicated to building complete projects to test your learning: a number guessing game, a Rust implementation of a command line tool, and a multithreaded server.
New to this edition: An extended section on Rust macros, an expanded chapter on modules, and appendixes on Rust development tools and editions.

Concurrency in C# Cookbook Aug 04 2021
If you're one of many developers still uncertain about concurrent and multithreaded development, this practical cookbook will change your mind. With more than 85 code-rich recipes in this updated second edition, author Stephen Cleary demonstrates parallel processing and asynchronous programming techniques using libraries and language features in .NET and C# 8.0. Concurrency is now more common in responsive and scalable application development, but it's still extremely difficult to code. The detailed solutions in this cookbook show you how modern tools raise the level of abstraction, making concurrency much easier than before. Complete with ready-to-use code and discussions about how and why solutions work, these recipes help you:
Get up to speed on concurrency and async and parallel programming
Use async and await for asynchronous operations
Enhance your code with asynchronous streams
Explore parallel programming with .NET's Task Parallel Library
Create dataflow pipelines with .NET's TPL Dataflow library
Understand the capabilities that System.Reactive builds on top of LINQ
Utilize threadsafe and immutable collections
Learn how to conduct unit testing with concurrent code
Make the thread pool work for you
Enable clean, cooperative cancellation
Examine scenarios for combining concurrent approaches
Dive into asynchronous-friendly object-oriented programming
Recognize and write adapters for code using older asynchronous styles

Java 9 Concurrency Cookbook Dec 20 2022
Master the art of fast, effective Java development with the power of concurrent and parallel programming
About This Book
Get detailed coverage of important recipes on multithreading and parallel programming
This book takes a close look at the Java 9 APIs and their impact on concurrency
See practical examples on thread safety, high-performance classes, safe sharing, and a whole lot more
Who This Book Is For
The book is for Java developers and programmers at an intermediate to advanced level. It will be especially useful for developers who want to take advantage of task-based recipes using Java 9's concurrent API to program thread-safe solutions.
What You Will Learn
Find out to manage the basic components of the Java Concurrency API
Use synchronization mechanisms to avoid data race conditions and other problems of concurrent applications
Separate the thread management from the rest of the application with the Executor framework
Solve problems using a parallelized version of the divide and conquer paradigm with the Fork / Join framework
Process massive data sets in an optimized way using streams and reactive streams
See which data structures we can use in concurrent applications and how to use them
Practice efficient techniques to test concurrent applications
Get to know tips and tricks to design concurrent applications
In Detail
Writing concurrent and parallel programming applications is an integral skill for any Java programmer. Java 9 comes with a host of fantastic features, including significant performance improvements and new APIs. This book will take you through all the new APIs, showing you how to build parallel and multi-threaded applications. The book covers all the elements of the Java Concurrency API, with essential recipes that will help you take advantage of the exciting new capabilities. You will learn how to use parallel and reactive streams to process massive data sets. Next, you will move on to create streams and use all their intermediate and terminal operations to process big collections of data in a parallel and functional way. Further, you'll discover a whole range of recipes for almost everything, such as thread management, synchronization, executors, parallel and reactive streams, and many more. At the end of the book, you will learn how to obtain information about the status of some of the most useful components of the Java Concurrency API and how to test concurrent applications using different tools.
Style and approach
This recipe-based book will allow you to explore the exciting capabilities of concurrency in Java. After reading this book, you will be able to comfortably build parallel applications in Java 9.

IOS 7 Programming Cookbook Jul 15 2022
Overcome the vexing issues you're likely to face when creating apps

for the iPhone, iPad, or iPod touch. With new and thoroughly revised recipes in this updated cookbook, you'll quickly learn the steps necessary to work with the iOS 7 SDK--including ways to store and protect data, send and receive notifications, enhance and animate graphics, manage files and folders, and take advantage of UI Dynamics.

[Java 7 Concurrency Cookbook](#) Nov 19 2012 "Java 7 Concurrency Cookbook" is a practical Cookbook packed with real-world solutions. Intermediate-advanced level Java developers will learn from task-based recipes to use Java's concurrent API to program thread safe solutions. If you are a Java developer who wants to take your knowledge of concurrent programming and multithreading further, as well as discover the new concurrency features of Java 7, then "Java 7 Concurrency Cookbook" is for you. You should already be comfortable with general Java development practices and a basic grasp of threads would be an advantage.

Programming Concurrency on the JVM Jul 23 2020 More than ever, learning to program concurrency is critical to creating faster, responsive applications. Speedy and affordable multicore hardware is driving the demand for high-performing applications, and you can leverage the Java platform to bring these applications to life. Concurrency on the Java platform has evolved, from the synchronization model of JDK to software transactional memory (STM) and actor-based concurrency. This book is the first to show you all these concurrency styles so you can compare and choose what works best for your applications. You'll learn the benefits of each of these models, when and how to use them, and what their limitations are. Through hands-on exercises, you'll learn how to avoid shared mutable state and how to write good, elegant, explicit synchronization-free programs so you can create easy and safe concurrent applications. The techniques you learn in this book will take you from dreading concurrency to mastering and enjoying it. Best of all, you can work with Java or a JVM language of your choice - Clojure, JRuby, Groovy, or Scala - to reap the growing power of multicore hardware. If you are a Java programmer, you'd need JDK 1.5 or later and the Akka 1.0 library. In addition, if you program in Scala, Clojure, Groovy or JRuby you'd need the latest version of your preferred language. Groovy programmers will also need GPar.

RESTful Web Services Cookbook Nov 14 2019 While the REST design philosophy has captured the imagination of web and enterprise developers alike, using this approach to develop real web services is no picnic. This cookbook includes more than 100 recipes to help you take advantage of REST, HTTP, and the infrastructure of the Web. You'll learn ways to design RESTful web services for client and server applications that meet performance, scalability, reliability, and security goals, no matter what programming language and development framework you use. Each recipe includes one or two problem statements, with easy-to-follow, step-by-step instructions for solving them, as well as examples using HTTP requests and responses, and XML, JSON, and Atom snippets. You'll also get implementation guidelines, and a discussion of the pros, cons, and trade-offs that come with each solution. Learn how to design resources to meet various application scenarios Successfully design representations and URIs Implement the hypertext constraint using links and link headers Understand when and how to use Atom and AtomPub Know what and what not to do to support caching Learn how to implement concurrency control Deal with advanced use cases involving copying, merging, transactions, batch processing, and partial updates Secure web services and support OAuth

[C++ Concurrency in Action](#) Jan 29 2021 Summary This bestseller has been updated and revised to cover all the latest changes to C++ 14 and 17! C++ Concurrency in Action, Second Edition teaches you everything you need to write robust and elegant multithreaded applications in C++17. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology You choose C++ when your applications need to run fast. Well-designed concurrency makes them go even faster. C++ 17 delivers strong support for the multithreaded, multiprocessor programming required for fast graphic processing, machine learning, and other performance-sensitive tasks. This exceptional book unpacks the features, patterns, and best practices of production-grade C++ concurrency. About the Book C++ Concurrency in Action, Second Edition is the definitive guide to writing elegant multithreaded applications in C++. Updated for C++ 17, it carefully addresses every aspect of concurrent development, from starting new threads to designing fully functional multithreaded algorithms and data structures. Concurrency master Anthony Williams presents examples and practical tasks in every chapter, including insights that will delight even the most experienced developer. What's inside Full coverage of new C++ 17 features Starting and managing threads Synchronizing concurrent operations

Designing concurrent code Debugging multithreaded applications About the Reader Written for intermediate C and C++ developers. No prior experience with concurrency required. About the Author Anthony Williams has been an active member of the BSI C++ Panel since 2001 and is the developer of the just::thread Pro extensions to the C++ 11 thread library. Table of Contents Hello, world of concurrency in C++! Managing threads Sharing data between threads Synchronizing concurrent operations The C++ memory model and operations on atomic types Designing lock-based concurrent data structures Designing lock-free concurrent data structures Designing concurrent code Advanced thread management Parallel algorithms Testing and debugging multithreaded applications

Violent Python Dec 16 2019 Violent Python shows you how to move from a theoretical understanding of offensive computing concepts to a practical implementation. Instead of relying on another attacker's tools, this book will teach you to forge your own weapons using the Python programming language. This book demonstrates how to write Python scripts to automate large-scale network attacks, extract metadata, and investigate forensic artifacts. It also shows how to write code to intercept and analyze network traffic using Python, craft and spoof wireless frames to attack wireless and Bluetooth devices, and how to data-mine popular social media websites and evade modern anti-virus. Demonstrates how to write Python scripts to automate large-scale network attacks, extract metadata, and investigate forensic artifacts Write code to intercept and analyze network traffic using Python. Craft and spoof wireless frames to attack wireless and Bluetooth devices Data-mine popular social media websites and evade modern anti-virus

ADO.NET 3.5 Cookbook Oct 06 2021 Rather than theory, this text provides easy-to-find coding solutions to real problems, offering clear explanations of how and why the code works, potential pitfalls, and sources of additional information.

Rust Programming Cookbook Jun 21 2020 Practical solutions to overcome challenges in creating console and web applications and working with systems-level and embedded code, network programming, deep neural networks, and much more. Key Features Work through recipes featuring advanced concepts such as concurrency, unsafe code, and macros to migrate your codebase to the Rust programming language Learn how to run machine learning models with Rust Explore error handling, macros, and modularization to write maintainable code Book Description Rust 2018, Rust's first major milestone since version 1.0, brings more advancement in the Rust language. The Rust Programming Cookbook is a practical guide to help you overcome challenges when writing Rust code. This Rust book covers recipes for configuring Rust for different environments and architectural designs, and provides solutions to practical problems. It will also take you through Rust's core concepts, enabling you to create efficient, high-performance applications that use features such as zero-cost abstractions and improved memory management. As you progress, you'll delve into more advanced topics, including channels and actors, for building scalable, production-grade applications, and even get to grips with error handling, macros, and modularization to write maintainable code. You will then learn how to overcome common roadblocks when using Rust for systems programming, IoT, web development, and network programming. Finally, you'll discover what Rust 2018 has to offer for embedded programmers. By the end of the book, you'll have learned how to build fast and safe applications and services using Rust. What you will learn Understand how Rust provides unique solutions to solve system programming language problems Grasp the core concepts of Rust to develop fast and safe applications Explore the possibility of integrating Rust units into existing applications for improved efficiency Discover how to achieve better parallelism and security with Rust Write Python extensions in Rust Compile external assembly files and use the Foreign Function Interface (FFI) Build web applications and services using Rust for high performance Who this book is for The Rust cookbook is for software developers looking to enhance their knowledge of Rust and leverage its features using modern programming practices. Familiarity with Rust language is expected to get the most out of this book.

Microsoft Dynamics 365 Extensions Cookbook Jan 17 2020 More than 80 recipes to help you leverage the various extensibility features available for Microsoft Dynamics and solve problems easily About This Book Customize, configure, and extend the vanilla features of Dynamics 365 to deliver bespoke CRM solutions fit for any organization Implement business logic using point-and-click configuration, plugins, and client-side scripts with MS Dynamics 365 Built a DevOps pipeline as well as Integrate Dynamics 365 with Azure and other platforms Who This Book Is For This book is for developers, administrators, consultants, and power users who

want to learn about best practices when extending Dynamics 365 for enterprises. You are expected to have a basic understanding of the Dynamics CRM/365 platform. What You Will Learn Customize, configure, and extend Microsoft Dynamics 365 Create business process automation Develop client-side extensions to add features to the Dynamics 365 user interface Set up a security model to securely manage data with Dynamics 365 Develop and deploy clean code plugins to implement a wide range of custom behaviors Use third-party applications, tools, and patterns to integrate Dynamics 365 with other platforms Integrate with Azure, Java, SSIS, PowerBI, and Octopus Deploy Build an end-to-end DevOps pipeline for Dynamics 365 In Detail Microsoft Dynamics 365 is a powerful tool. It has many unique features that empower organisations to bridge common business challenges and technology pitfalls that would usually hinder the adoption of a CRM solution. This book sets out to enable you to harness the power of Dynamics 365 and cater to your unique circumstances. We start this book with a no-code configuration chapter and explain the schema, fields, and forms modeling techniques. We then move on to server-side and client-side custom code extensions. Next, you will see how best to integrate Dynamics 365 in a DevOps pipeline to package and deploy your extensions to the various SDLC environments. This book also covers modern libraries and integration patterns that can be used with Dynamics 365 (Angular, 3 tiers, and many others). Finally, we end by highlighting some of the powerful extensions available. Throughout we explain a range of design patterns and techniques that can be used to enhance your code quality; the aim is that you will learn to write enterprise-scale quality code. Style and approach This book takes a recipe-based approach, delivering practical examples and use cases so that you can identify the best possible approach to extend your Dynamics 365 deployment and tackle your specific business problems.

[Java 7 Concurrency Cookbook](#) Jan 21 2023

[iOS 8 Swift Programming Cookbook](#) May 13 2022 Entirely rewritten for Apple's Swift programming language, this updated cookbook helps you overcome the vexing issues you're likely to face when creating apps for iOS devices. You'll find hundreds of new and revised recipes for using the iOS 8 SDK, including techniques for working with Health data and HomeKit accessories, enhancing and animating graphics, storing and protecting data, sending and receiving notifications, and managing files and folders among them. Each recipe includes sample code on GitHub that you can use right away. Use CloudKit APIs to store information in the cloud with ease Create custom keyboards and extensions Access users' health-related information with HealthKit Interact with accessories inside the user's home with HomeKit Create vibrant and lifelike user interfaces with UIKit Dynamics Use the Keychain to protect your app's data Develop location-aware and multitasking-aware apps Work with iOS 8's audio and video APIs Use Event Kit UI to manage calendars, dates, and events Take advantage of the accelerometer and the gyroscope Get working examples for implementing gesture recognizers Retrieve and manipulate contacts and groups from the Address Book Determine a camera's availability and access the Photo Library

[Elasticsearch 7.0 Cookbook](#) Feb 27 2021 Search, analyze, and manage data effectively with Elasticsearch 7 Key Features Extend Elasticsearch functionalities and learn how to deploy on Elastic Cloud Deploy and manage simple Elasticsearch nodes as well as complex cluster topologies Explore the capabilities of Elasticsearch 7 with easy-to-follow recipes Book Description Elasticsearch is a Lucene-based distributed search server that allows users to index and search unstructured content with petabytes of data. With this book, you'll be guided through comprehensive recipes on what's new in Elasticsearch 7, and see how to create and run complex queries and analytics. Packed with recipes on performing index mapping, aggregation, and scripting using Elasticsearch, this fourth edition of Elasticsearch Cookbook will get you acquainted with numerous solutions and quick techniques for performing both every day and uncommon tasks such as deploying Elasticsearch nodes, integrating other tools to Elasticsearch, and creating different visualizations. You will install Kibana to monitor a cluster and also extend it using a variety of plugins. Finally, you will integrate your Java, Scala, Python, and big data applications such as Apache Spark and Pig with Elasticsearch, and create efficient data applications powered by enhanced functionalities and custom plugins. By the end of this book, you will have gained in-depth knowledge of implementing Elasticsearch architecture, and you'll be able to manage, search, and store data efficiently and effectively using Elasticsearch. What you will learn Create an efficient architecture with Elasticsearch Optimize search results by executing analytics aggregations Build complex queries by managing indices and documents Monitor the performance of your cluster and nodes Design advanced mapping to take full control of

index steps Integrate Elasticsearch in Java, Scala, Python, and big data applications Install Kibana to monitor clusters and extend it for plugins Who this book is for If you're a software engineer, big data infrastructure engineer, or Elasticsearch developer, you'll find this book useful. This Elasticsearch book will also help data professionals working in the e-commerce and FMCG industry who use Elastic for metrics evaluation and search analytics to get deeper insights for better business decisions. Prior experience with Elasticsearch will help you get the most out of this book.

Euro-Par 2017: Parallel Processing Workshops Jan 09 2022 This book constitutes the proceedings of the workshops of the 23rd International Conference on Parallel and Distributed Computing, Euro-Par 2017, held in Santiago de Compostela, Spain in August 2017. The 59 full papers presented were carefully reviewed and selected from 119 submissions. Euro-Par is an annual, international conference in Europe, covering all aspects of parallel and distributed processing. These range from theory to practice, from small to the largest parallel and distributed systems and infrastructures, from fundamental computational problems to full-edged applications, from architecture, compiler, language and interface design and implementation to tools, support infrastructures, and application performance aspects.

Concurrency in C# Cookbook Aug 16 2022 If you're one of the many developers uncertain about concurrent and multithreaded development, this practical cookbook will change your mind. With more than 75 code-rich recipes, author Stephen Cleary demonstrates parallel processing and asynchronous programming techniques, using libraries and language features in .NET 4.5 and C# 5.0. Concurrency is becoming more common in responsive and scalable application development, but it's been extremely difficult to code. The detailed solutions in this cookbook show you how modern tools raise the level of abstraction, making concurrency much easier than before. Complete with ready-to-use code and discussions about how and why the solution works, you get recipes for using: `async` and `await` for asynchronous operations Parallel programming with the Task Parallel Library The TPL Dataflow library for creating dataflow pipelines Capabilities that Reactive Extensions build on top of LINQ Unit testing with concurrent code Interop scenarios for combining concurrent approaches Immutable, threadsafe, and producer/consumer collections Cancellation support in your concurrent code Asynchronous-friendly Object-Oriented Programming Thread synchronization for accessing data

Reliable Software Technologies ¶ Ada-Europe 2016 Dec 08 2021 This book constitutes the refereed proceedings of the 21st Ada-Europe International Conference on Reliable Software Technologies, Ada-Europe 2016, held in Pisa, Italy, in June 2016. The revised 12 full papers presented together with one invited paper were carefully reviewed and selected from 28 submissions. They are organized in topical sections on concurrency and parallelism, testing and verification, program correctness and robustness, and real-time systems.

Formal Methods and Software Engineering Apr 12 2022 This book constitutes the refereed proceedings of the 15th International Conference on Formal Engineering Methods, ICFEM 2013, held in Queenstown, New Zealand, in October/November 2013. The 28 revised full papers together with 2 keynote speeches presented were carefully reviewed and selected from 88 submissions. The topics covered are abstraction and refinement, formal specification and modeling, program analysis, software verification, formal methods for software safety, security, reliability and dependability, tool development, integration and experiments involving verified systems, formal methods used in certifying products under international standards, and formal model-based development and code generation.

Concurrent Programming in Java Oct 14 2019 Software -- Programming Languages.

Knative Cookbook Jun 02 2021 Enterprise developers face several challenges when it comes to building serverless applications, such as integrating applications and building container images from source. With more than 60 practical recipes, this cookbook helps you solve these issues with Knative—the first serverless platform natively designed for Kubernetes. Each recipe contains detailed examples and exercises, along with a discussion of how and why it works. If you have a good understanding of serverless computing and Kubernetes core resources such as deployment, services, routes, and replicas, the recipes in this cookbook show you how to apply Knative in real enterprise application development. Authors Kamesh Sampath and Burr Sutter include chapters on autoscaling, build and eventing, observability, Knative on OpenShift, and more. With this cookbook, you'll learn how to: Efficiently build, deploy, and manage modern serverless workloads Apply Knative in real enterprise scenarios, including advanced eventing Monitor your Knative serverless applications effectively Integrate Knative

with CI/CD principles, such as using pipelines for faster, more successful production deployments Deploy a rich ecosystem of enterprise integration patterns and connectors in Apache Camel K as Kubernetes and Knative components

The Art of Writing Efficient Programs May 01 2021 Become a better programmer with performance improvement techniques such as concurrency, lock-free programming, atomic operations, parallelism, and memory management **Key Features** Learn proven techniques from a heavyweight and recognized expert in C++ and high-performance computing Understand the limitations of modern CPUs and their performance impact Find out how you can avoid writing inefficient code and get the best optimizations from the compiler Learn the tradeoffs and costs of writing high-performance programs **Book Description** The great free lunch of "performance taking care of itself" is over. Until recently, programs got faster by themselves as CPUs were upgraded, but that doesn't happen anymore. The clock frequency of new processors has almost peaked, and while new architectures provide small improvements to existing programs, this only helps slightly. To write efficient software, you now have to know how to program by making good use of the available computing resources, and this book will teach you how to do that. The Art of Efficient Programming covers all the major aspects of writing efficient programs, such as using CPU resources and memory efficiently, avoiding unnecessary computations, measuring performance, and how to put concurrency and multithreading to good use. You'll also learn about compiler optimizations and how to use the programming language (C++) more efficiently. Finally, you'll understand how design decisions impact performance. By the end of this book, you'll not only have enough knowledge of processors and compilers to write efficient programs, but you'll also be able to understand which techniques to use and what to measure while improving performance. At its core, this book is about learning how to learn. What you will learn **Discover** how to use the hardware computing resources in your programs effectively **Understand** the relationship between memory order and memory barriers **Familiarize** yourself with the performance implications of different data structures and organizations **Assess** the performance impact of concurrent memory accessed and how to minimize it **Discover** when to use and when not to use lock-free programming techniques **Explore** different ways to improve the effectiveness of compiler optimizations **Design** APIs for concurrent data structures and high-performance data structures to avoid inefficiencies **Who this book is for** This book is for experienced developers and programmers who work on performance-critical projects and want to learn new techniques to improve the performance of their code. Programmers in algorithmic trading, gaming, bioinformatics, computational genomics, or computational fluid dynamics communities will get the most out of the examples in this book, but the techniques are fairly universal. Although this book uses the C++ language, the concepts demonstrated in the book can be easily transferred or applied to other compiled languages such as C, Java, Rust, Go, and more.

Scala Cookbook Nov 07 2021 Save time and trouble when using Scala to build object-oriented, functional, and concurrent applications. With more than 250 ready-to-use recipes and 700 code examples, this comprehensive cookbook covers the most common problems you'll encounter when using the Scala language, libraries, and tools. It's ideal not only for experienced Scala developers, but also for programmers learning to use this JVM language. Author Alvin Alexander (creator of DevDaily.com) provides solutions based on his experience using Scala for highly scalable, component-based applications that support concurrency and distribution. Packed with real-world scenarios, this book provides recipes for: Strings, numeric types, and control structures Classes, methods, objects, traits, and packaging Functional programming in a variety of situations Collections covering Scala's wealth of classes and methods Concurrency, using the Akka Actors library Using the Scala REPL and the Simple Build Tool (SBT) Web services on both the client and server sides Interacting with SQL and NoSQL databases Best practices in Scala development

- [Java 7 Concurrency Cookbook Quick Answers To Common Problems](#)

- [Java 7 Concurrency Cookbook](#)
- [Java 9 Concurrency Cookbook](#)
- [Java 7 Concurrency Cookbook](#)
- [Java 9 Concurrency Cookbook Second Edition](#)
- [Mastering Concurrency Programming With Java 9](#)
- [Concurrency In C Cookbook](#)
- [IOS 7 Programming Cookbook](#)
- [Mastering Concurrency Programming With Java 8](#)
- [IOS 8 Swift Programming Cookbook](#)
- [Formal Methods And Software Engineering](#)
- [IOS 8 Swift Programming Cookbook](#)
- [Java 11 Cookbook](#)
- [Euro Par 2017 Parallel Processing Workshops](#)

- [Scala Cookbook](#)
- [ADONET 35 Cookbook](#)
- [Python Cookbook](#)
- [Concurrency In C Cookbook](#)
- [PostgreSQL 14 Administration Cookbook](#)
- [Knative Cookbook](#)
- [The Art Of Writing Efficient Programs](#)
- [Mathematica Cookbook](#)
- [Elasticsearch 70 Cookbook](#)
- [C Concurrency In Action](#)
- [Concurrency In NET](#)
- [Java Concurrency In Practice](#)
- [PHP 7 Programming Cookbook](#)
- [Concurrent Programming On Windows](#)
- [Kotlin Cookbook](#)
- [Programming Concurrency On The JVM](#)
- [Rust Programming Cookbook](#)
- [Java Cookbook](#)
- [Modern C Programming Cookbook Second Edition](#)
- [The Rust Programming Language Covers Rust 2018](#)
- [AWS Cookbook](#)
- [Microsoft Dynamics 365 Extensions Cookbook](#)
- [Violent Python](#)
- [RESTful Web Services Cookbook](#)
- [Concurrent Programming In Java](#)