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Performance problems are rarely "problems" per se. They are more often "crises" during which you're pressured for results by a manager standing outside your cubicle while your phone rings with queries from the help desk. You won't have the time for a leisurely perusal of the manuals, nor to lean back and read a book on theory. What you need in that situation is a book of solutions, and solutions are precisely what Oracle Database 12c Performance Tuning Recipes delivers. Oracle Database 12c Performance Tuning Recipes is a ready

reference for database administrators in need of immediate help with performance issues relating to Oracle Database. The book takes an example-based approach, wherein each chapter covers a specific problem domain. Within each chapter are "recipes," showing by example how to perform common tasks in that chapter's domain. Solutions in the recipes are backed by clear explanations of background and theory from the author team. Whatever the task, if it's performance-related, you'll probably find a recipe and a solution in this book. Provides proven solutions to real-life Oracle performance problems Offers relevant background and theory to support each solution Gets straight to the point for when you're under pressure for results What you'll learn Optimize the use of memory and storage Monitor performance and troubleshoot problems Identify and improve poorly-performing SQL statements Adjust the most important optimizer parameters to your advantage Create indexes that get used and

make a positive impact upon performance Automate and stabilize using key features such as SQL Tuning Advisor and SQL Plan Baselines Who this book is for Oracle Database 12c Performance Tuning Recipes is aimed squarely at Oracle Database administrators. The book especially appeals to those administrators desiring to have at their side a ready-to-go set of solutions to common database performance problems. Table of Contents Optimizing Table Performance Choosing and Optimizing Indexes Optimizing Instance Memory Monitoring System Performance Minimizing System Contention Analyzing Operating System Performance Troubleshooting the Database Creating Efficient SQL Manually Tuning SQL Tracing SQL Execution Automated SQL Tuning Execution Plan Optimization and Consistency Configuring the Optimizer Implementing Query Hints Executing SQL in Parallel Whether you're relatively new to git or you need a refresher, or if you just need a quick, handy reference for

common tasks in git, Git Recipes is just the reference book you need. With recipes to cover any task you can think of, including working with GitHub and git on BitBucket, Git Recipes shows you how to work with large repositories, new repositories, forks, clones, conflicts, differences, and it even gives you practical scenarios you may find yourself dealing with while using git. If you work with Git at all, you need this hands-on, practical reference for all things Git. This book presents practical techniques for writing lightweight software test automation in a .NET environment. If you develop, test, or manage .NET software, you will find this book very useful. With .NET, it is possible to write lightweight, custom test automation in a tiny fraction of the time it used to take. The book teaches how to automate Low-level Web application UI automation and covers SQL stored procedure testing techniques. The emphasis is on practical techniques that can be used immediately. The book is intended for

software developers, testers, and managers who work with .NET technology and have a basic familiarity with .NET programming. Solve all your Spring Boot 2 problems using complete and real-world code examples. When you start a new project, you'll be able to copy the code and configuration files from this book, and then modify them for your needs. This can save you a great deal of work over creating a project from scratch. Using a problem-solution approach, Spring Boot 2 Recipes quickly introduces you to Pivotal's Spring Boot 2 micro-framework, then dives into code snippets on how to apply and integrate Spring Boot 2 with the Spring MVC web framework, Spring Web Sockets, and microservices. You'll also get solutions to common problems with persistence, integrating Spring Boot with batch processing, algorithmic programming via Spring Batch, and much more. Other recipes cover topics such as using and integrating Boot with Spring's enterprise services, Spring Integration, testing, monitoring

and more. What You'll Learn Get reusable code recipes and snippets for the Spring Boot 2 micro-framework Discover how Spring Boot 2 integrates with other Spring APIs, tools, and frameworks Access Spring MVC and the new Spring Web Sockets for simpler web development Work with microservices for web services development and integration with your Spring Boot applications Add persistence and a data tier seamlessly to make your Spring Boot web application do more Integrate enterprise services to create a more complex Java application using Spring Boot Who This Book Is For Experienced Java and Spring programmers. Get the most out of asyncio and find solutions to your most troubling Python programming problems. This book offers a pragmatic collection of recipes by going beyond online resources and docs to provide guidance on using this complex library. As such, you'll see how to improve application performance and run computationally intensive programs faster.

asyncio Recipes starts with examples illustrating the primitives that come with the asyncio library, and explains how to determine if asyncio is the right choice for your application. It shows how to use asyncio to yield performance gains without multiple threads, and identifies common mistakes and how to prevent them. Later chapters cover error-handling, testing, and debugging. By the end of this book, you'll understand how asyncio runs behind the scenes, and be confident enough to contribute to asyncio-first projects. What You Will Learn Discover quirky APIs such as the event loop policies Write asyncio code with native coroutines Use the ast module to find legacy asyncio code Work with contextvars See what a async context manager is and why a lot of asyncio APIs use them Who This Book Is For Experienced Python developers or hobbyists who want to understand asyncio and speed up their applications by adding concurrency to their toolkit. Objective-C Recipes provides a problem

solution approach for dealing with key aspects of Objective-C programming, ensuring you have the indispensable reference you need to successfully execute common programming tasks. You will see how to use the unique features of the Objective-C programming language, the helpful features of the Foundation framework, and the benefits of using Objective-J as an alternative. Solutions are available for a range of problems, including: Application development with Xcode Working with strings, numbers and object collections Using foundation classes like NSArray, NSString, NSData and more Dealing with threads, multi-core processing and asynchronous processing Building applications that take advantage of dates and timers and memory management How to use Objective-C on other platforms Objective-C Recipes is an essential reference for every Objective-C programmer, and offers solutions in a concise and easy-to-follow manner. Matthew Campbell has trained over 800 new iOS

developers at the Mobile App Mastery Institute and iOS Code Camp, and here brings his expertise to offer you the ability to use and exploit Objective-C to get the most out of all of your projects. The Spring framework is growing. It has always been about choice. Java EE focused on a few technologies, largely to the detriment of alternative, better solutions. When the Spring framework debuted, few would have agreed that Java EE represented the best-in-breed architectures of the day. Spring debuted to great fanfare, because it sought to simplify Java EE. Each release since marks the introduction of new features designed to both simplify and enable solutions. With version 2.0 and later, the Spring framework started targeting multiple platforms. The framework provided services on top of existing platforms, as always, but was decoupled from the underlying platform wherever possible. Java EE is still a major reference point, but it's not the only target. OSGi (a promising technology for modular

architectures) has been a big part of the SpringSource strategy here. Additionally, the Spring framework runs on Google App Engine. With the introduction of annotation-centric frameworks and XML schemas, SpringSource has built frameworks that effectively model the domain of a specific problem, in effect creating domain-specific languages (DSLs). Frameworks built on top of the Spring framework have emerged supporting application integration, batch processing, Flex and Flash integration, GWT, OSGi, and much more. R Recipes is your handy problem-solution reference for learning and using the popular R programming language for statistics and other numerical analysis. Packed with hundreds of code and visual recipes, this book helps you to quickly learn the fundamentals and explore the frontiers of programming, analyzing and using R. R Recipes provides textual and visual recipes for easy and productive templates for use and re-use in your day-to-day R programming and data analysis

practice. Whether you're in finance, cloud computing, big or small data analytics, or other applied computational and data science - R Recipes should be a staple for your code reference library. What you'll learn Tips and tricks for making the migration to R smooth and seamless Code recipes for I/O, data structures, transformations, strings, dates and more How to use graphics and visualization in R Using R for probability, statistics, hypothesis tests, linear regression time series and more How to write practical code and templates for finance and big data analytics Code for doing numerics or numerical analysis, beyond just statistical programming Who this book is for If you're new to R, then R Recipes will help get you started. If you're an experienced data programmer, then it will remind you as well as expand upon your knowledge base; so, you'll get the job done faster and learn more about R in the process. Table of Contents 1. Migrating to R 2. Input and Output 3. Data Structures 4. Merging and

Reshaping Datasets 5. Working with Dates and Strings 6. Working with Tabular Data 7. Working with Numerical Data 8. Graphics and Data Visualization 9. Probability Distributions 10. Tests of Differences 11. Tests of Relationships 12. Modern Robust Statistics 13. Writing Functions 14. Working with Financial Data 15. Dealing with Big Data 16. Introduction to Text and Data Mining Pivot Tables are a huge growth area. This book gives people the fast-answers they need to succeed The book is far more detailed than any competing title. Readers of this book will be able to do more, and more quickly The book goes beyond basic explanations and includes real-world troubleshooting, performance and security information not provided elsewhere Swift Recipes provides a problem solution approach for dealing with key aspects of the Swift programming language (covering version 1.2), ensuring you have the indispensable reference you need to successfully execute common programming tasks. You'll

learn how to use the unique features of the Swift programming language as well as its use with Cocoa and Cocoa touch frameworks and libraries. Solutions are available for a range of problems, including application development with Xcode; working with strings, numbers, and object collections; dealing with threads, multi-core processing, and asynchronous processing; and building applications that take advantage of dates and timers and memory management. This book is an essential core reference for every Swift programmer and offers solutions in a concise and easy-to-follow manner. T. Michael Rogers has developed iOS applications for Fortune 100 brands and startups, and has trained new and experienced iOS developers via the iOS Boot Camp in New York City, online courses, and in private settings. He brings his expertise to offer you the ability to use and exploit Swift to get the most out of all your projects for your app creations, whether you use iOS or Mac OS X. Quickly find solutions to

common programming problems encountered while processing big data. Content is presented in the popular problem-solution format. Look up the programming problem that you want to solve. Read the solution. Apply the solution directly in your own code. Problem solved!

PySpark Recipes covers Hadoop and its shortcomings. The architecture of Spark, PySpark, and RDD are presented. You will learn to apply RDD to solve day-to-day big data problems. Python and NumPy are included and make it easy for new learners of PySpark to understand and adopt the model. What You Will Learn Understand the advanced features of PySpark2 and SparkSQL Optimize your code Program SparkSQL with Python Use Spark Streaming and Spark MLlib with Python Perform graph analysis with GraphFrames Who This Book Is For Data analysts, Python programmers, big data enthusiasts Proceedings Before the European Patent Office: A Practical Guide to Success in Opposition and Appeal provides a

better understanding of how opposition divisions and boards of appeal approach the cases before them. Invention Analysis and Claiming presents a comprehensive approach to analyzing inventions and capturing them in a sophisticated set of patent claims. A central theme is the importance of using the problem-solution paradigm to identify the "inventive concept" before the claim-drafting begins. The book's teachings are grounded in "old school" principles of patent practice that, before now, have been learned only on the job from supervisors and mentors. Entity Framework 4.0 Recipes provides an exhaustive collection of ready-to-use code solutions for Entity Framework, Microsoft's vision for the future of data access. Entity Framework is a model-centric data access platform with an ocean of new concepts and patterns for developers to learn. With this book, you will learn the core concepts of Entity Framework through a broad range of clear and concise solutions to everyday

data access tasks. Armed with this experience, you will be ready to dive deep into Entity Framework, experiment with new approaches, and develop ways to solve even the most difficult data access challenges. If you are a developer who likes to learn by example, then this is the right book for you. Gives ready-to-use, real-world recipes to help you with everyday tasks Provides guideposts for learning core concepts Maps out key landmarks for experimenting with your own solutions jQuery is one of today's most popular JavaScript web application development frameworks and libraries. jQuery Recipes can get you started with jQuery quickly and easily, and it will serve as a valuable long-term reference. The book begins with small initial problems that developers typically face while working with jQuery, and gradually goes deeper to explore more complex problems. The solutions include illustrations and clear, concise explanations of the code. Using this book and jQuery, your web sites will be more dynamic and

lively. Discover the newest major features of C++20, including modules, concepts, spaceship operators, and smart pointers. This book is a handy code cookbook reference guide that covers the C++ core language standard as well as some of the code templates available in standard template library (STL). In C++20 Recipes: A Problem-Solution Approach, you'll find numbers, strings, dates, times, classes, exceptions, streams, flows, pointers, and more. Also, you'll see various code samples, templates for C++ algorithms, parallel processing, multithreading, and numerical processes. It also includes 3D graphics programming code. A wealth of STL templates on function objects, adapters, allocators, and extensions are also available. This is a must-have, contemporary reference for your technical library to help with just about any project that involves the C++ programming language. What You Will Learn See what's new in C++20 Write modules Work with text, numbers, and classes Use the

containers and algorithms available in the standard library Work with templates, memory, concurrency, networking, scripting, and more Code for 3D graphics Who This Book Is For Programmers with at least some prior experience with C++. Quickly discover solutions to common problems, best practices you can follow, and everything JavaScript has to offer. Using a problem-solution approach, this book takes you from language basics like built-in objects and flow control all the way to advanced optimization techniques, frameworks and Node.js. With JavaScript Recipes you will learn language fundamentals like types, conversions, execution contexts, expressions, operators, statements, and built-in objects. You'll explore and make the most of your script's host environment and how to create your own JavaScript host using Google's V8 engine. Employ advanced optimization techniques to create scripts that execute as fast, or faster, than native executables. JavaScript Recipes

shows you how to avoid wasting development time and concentrate on developing cutting-edge applications. You'll see how much quicker and efficient it is to develop with JavaScript. Start becoming a JavaScript pro with JavaScript Recipes today. What You'll Learn Learn JavaScript language fundamentals and what they can do for you Use JavaScript's powerful features to develop next-generation applications Explore your script's host environment and extend it with your own objects Learn how to use Google's V8 Engine to create your own JavaScript environment Learn advanced optimization techniques Implement advanced techniques like closures, namespaces, and reflection How to use Node.js efficiently Who This Book Is For JavaScript developers who need to get development tasks accomplished quickly. C++ Recipes: A Problem-Solution Approach is a handy code cookbook reference guide that cover the latest C++ 14 as well as some of the code templates available in the latest Standard

Template Library (STL). In this handy reference, you'll find numbers, strings, dates, times, classes, exceptions, streams, flows, pointers and more. Also, you'll see various code samples, templates for C++ algorithms, parallel processing, multithreading and numerical processes. These have many applications including game development, big data analytics, financial engineering and analysis, enterprise applications and more. A wealth of STL templates on function objects, adapters, allocators, and extensions are also available. This is a "must have", contemporary reference for your technical library. Learn from state-of-the-art examples in robotics, motors, detection filters, chemical processes, aircraft, and spacecraft. With this book you will review contemporary MATLAB coding including the latest MATLAB language features and use MATLAB as a software development environment including code organization, GUI development, and algorithm design and testing.

Features now covered include the new graph and digraph classes for charts and networks; interactive documents that combine text, code, and output; a new development environment for building apps; locally defined functions in scripts; automatic expansion of dimensions; tall arrays for big data; the new string type; new functions to encode/decode JSON; handling non-English languages; the new class architecture; the Mocking framework; an engine API for Java; the cloud-based MATLAB desktop; the memoize function; and heatmap charts. MATLAB Recipes: A Problem-Solution Approach, Second Edition provides practical, hands-on code snippets and guidance for using MATLAB to build a body of code you can turn to time and again for solving technical problems in your work. Develop algorithms, test them, visualize the results, and pass the code along to others to create a functional code base for your firm. What You Will Learn Get up to date with the latest MATLAB up to and including MATLAB 2020b

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Database administrator, Unix/Linux
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extreme performance for Oracle Database
workloads. Exadata delivers extreme
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each layer of the engineered technology stack,
as well as a unique set of Oracle software
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Monitoring Smart Scan and Cell Offload Hybrid Columnar Compression I/O Resource Management and Instance Caging Smart Flash Cache and Smart Flash Logging Storage Indexes Post-Installation Monitoring Tasks Post-Install Database Tasks Oracle PL/SQL Recipes is your go to book for PL/SQL programming solutions. It takes a task-oriented approach to PL/SQL programming that lets you quickly look up a specific task and see the pattern for a solution. Then it's as simple as modifying the pattern for your specific application and implementing it. And you're done and home for dinner. Oracle PL/SQL Recipes is another in Apress' ongoing series of recipe books aimed at Oracle practitioners. The recipe format is ideal for the busy professional who just needs to get the job done. Covers the most common PL/SQL programming problems Presents solutions in ready-to-use format Stays short and to-the-point Windows Professional Foundation (WPF) offers amazing opportunities to .NET programmers in

terms of the user interfaces they can deliver to their customers. But this significant technological advance comes with a steep learning curve, requiring the programmer to learn new classes, new syntax, and an entirely new approach to user interface development. Although WPF has been generally available since 2008, commercial take-up has been relatively slow, and the publicly available body of knowledge has been weak in terms of real-world examples and best-practice information. Using *WPF Recipes in C# 2008*, you'll find a simple and straightforward approach to solving the problems you face every day. Each solution contains a complete, working example that demonstrates how to make the best use of WPF. You can use the example as a template to solve your own problem or as a base on which to build a solution tailored to your specific needs. Packed with well-structured and documented solutions to a broad range of common WPF problems, this book, will be a valuable addition to any C#

programmer's reference library. Examples included provide you with a rich source of information as you begin to learn and will be an invaluable quick-reference guide once you're a proficient WPF programmer. The emphasis on solving the day-to-day WPF problems that all programmers face frees you from needing to trawl through weighty programming tomes or sift through API documentation, allowing you to focus on the more interesting and innovative aspects of your project. *Author is active and well-known within the community *Comprehensive and example-driven, for faster completion of administration tasks *Scripts are POSIX-compliant; supported by all mainstream shells *All examples contain the problem, the solution, and the code needed to implement the solution. *Problem-Solving in High Performance Computing: A Situational Awareness Approach with Linux* focuses on understanding giant computing grids as cohesive systems. Unlike other titles on general problem-solving or system

administration, this book offers a cohesive approach to complex, layered environments, highlighting the difference between standalone system troubleshooting and complex problem-solving in large, mission critical environments, and addressing the pitfalls of information overload, micro, and macro symptoms, also including methods for managing problems in large computing ecosystems. The authors offer perspective gained from years of developing Intel-based systems that lead the industry in the number of hosts, software tools, and licenses used in chip design. The book offers unique, real-life examples that emphasize the magnitude and operational complexity of high performance computer systems. Provides insider perspectives on challenges in high performance environments with thousands of servers, millions of cores, distributed data centers, and petabytes of shared data Covers analysis, troubleshooting, and system optimization, from initial diagnostics to deep dives into kernel crash dumps Presents

macro principles that appeal to a wide range of users and various real-life, complex problems Includes examples from 24/7 mission-critical environments with specific HPC operational constraints Solve all your Spring 5 problems using complete and real-world code examples. When you start a new project, you'll be able to copy the code and configuration files from this book, and then modify them for your needs. This can save you a great deal of work over creating a project from scratch. The recipes in Spring 5 Recipes cover Spring fundamentals such as Spring IoC container, Spring AOP/ AspectJ, and more. Other recipes include Spring enterprise solutions for topics such as Spring Java EE integration, Spring Integration, Spring Batch, Spring Remoting, messaging, transactions, and working with big data and the cloud using Hadoop and MongoDB. Finally, Spring web recipes cover Spring MVC, other dynamic scripting, integration with the popular Grails Framework (and Groovy), REST/web services,

and more. You'll also see recipes on new topics such as Spring Framework 5, reactive Spring, Spring 5 microservices, the functional web framework and much more. This book builds upon the best-selling success of the previous editions and focuses on the latest Spring Framework features for building enterprise Java applications. What You'll Learn Get re-usable code recipes and snippets for core Spring, annotations and other development tools Access Spring MVC for web development Work with Spring REST and microservices for web services development and integration into your enterprise Java applications Use Spring Batch, NoSQL and big data for building and integrating various cloud computing services and resources Integrate Java Enterprise Edition and other Java APIs for use in Spring Use Grails code and much more Who This Book Is For Experienced Java and Spring programmers. Quickly discover solutions to common problems, learn best practices, and understand everything wxPython

has to offer. This book is for anyone wanting to learn more about how to use the wxPython desktop GUI toolkit. It assumes some prior knowledge of Python and a general understanding of wxPython or GUI development, and contains more than 50 recipes covering various tasks and aspects of the toolkit. wxPython Recipes guides you step by step. The book takes you through how to create user interfaces in Python, including adding widgets, changing background images, manipulating dialogs, managing data, and much more. Examples target both Python 2.x and 3.x, and cover both wxPython 3.0 and Phoenix, offering a complete collection of ideas to improve your GUI development. Get up to speed with the deep learning concepts of Pytorch using a problem-solution approach. Starting with an introduction to PyTorch, you'll get familiarized with tensors, a type of data structure used to calculate arithmetic operations and also learn how they operate. You will then take a look at probability

distributions using PyTorch and get acquainted with its concepts. Further you will dive into transformations and graph computations with PyTorch. Along the way you will take a look at common issues faced with neural network implementation and tensor differentiation, and get the best solutions for them. Moving on to algorithms; you will learn how PyTorch works with supervised and unsupervised algorithms. You will see how convolutional neural networks, deep neural networks, and recurrent neural networks work using PyTorch. In conclusion you will get acquainted with natural language processing and text processing using PyTorch.

What You Will Learn Master tensor operations for dynamic graph-based calculations using PyTorch Create PyTorch transformations and graph computations for neural networks Carry out supervised and unsupervised learning using PyTorch Work with deep learning algorithms such as CNN and RNN Build LSTM models in PyTorch Use PyTorch for text processing Who

This Book Is For Readers wanting to dive straight into programming PyTorch. Quickly find solutions to dozens of common programming problems with the Java Enterprise Edition Platform for small business web applications, enterprise database applications, and microservices solutions. Content is presented in the popular problem-solution format. Look up the programming problem that you want to solve. Read the solution. Apply the solution directly in your own code. Problem solved! Java EE 8 Recipes provides you with effective and proven solutions that can be used to accomplish just about any task that you may encounter. You can feel confident using the reliable solutions that are demonstrated in this book in your personal or corporate environment. Java is a mature programming language that has been refined over the years into a productive and lucrative language for those with the skills to wield it. One result of this years-long refining process is that that the language carries forward

many older feature sets that no longer represent the best way of getting work accomplished. You can rest assured that Java EE 8 Recipes provides solutions using the most current approaches implemented in the most current Java Enterprise technologies, including JSON-P 1.1, JSF 2.3, and JAX-RS 2.1. Build a streamlined and reliable application that uses the latest in Java technologies, and develop it much faster than you did with the older technologies. Rejuvenate your Java expertise to use the freshest capabilities, or perhaps learn Java Enterprise development for the first time and discover one of the most widely used and most powerful technologies available for application development today. Develop productively. Develop with proven technology. Develop with Java Enterprise Edition. The book: Teaches how to develop RESTful enterprise applications quickly using the most current Java EE technologies Explores different solutions for developing sophisticated web user interfaces

Walks you through a myriad of different concepts to apply while working with databases using Java technologies What You'll Learn Develop Java Enterprise applications using the latest in Java EE technologies Build great-looking user interfaces using Java Server Faces Employ Java Servlet technology and standard frameworks in developing professional web applications Create enterprise-level database applications using Enterprise Java Beans and JAX-RS RESTful web services Make use of Arquillian to build a cohesive test suite for Java EE applications Manage Java EE application security through Java EE's container feature set Who This Book Is For Java developers who want to develop effective and proven solutions without reading a lengthy manual and scrubbing for techniques. A beginning Java programmer will find the book handy for learning a variety of different solutions for the platform, while advanced developers will enjoy the ease of the problem-solution approach to quickly broaden

their knowledge of the platform's latest technologies. Learn the code to write algorithms, numerical computations, data analysis and much more using the Python language: look up and re-use the recipes for your own Python coding. This book is your handy code cookbook reference. Whether you're a maker, game developer, cloud computing programmer and more, this is a must-have reference for your library. Python Recipes Handbook gives you the most common and contemporary code snippets, using pandas (Python Data Analysis Library), NumPy, and other numerical Python packages. What You'll Learn Code with the pandas (Python Data Analysis Library) Work with the various Python algorithms useful for today's big data analytics and cloud applications Use NumPy and other numerical Python packages and code for doing various kinds of analysis Discover Python's new popular modules, packages, extensions and templates library Who This Book Is For This

handy reference is for those with some experience with Python. Solve your Go problems using a problem-solution approach. Each recipe is a self-contained answer to a practical programming problem in Go. Go Recipes contains recipes that deal with the fundamentals of Go, allowing you to build simple, reliable, and efficient software. Other topics include working with data using modern NoSQL databases such as MongoDB and RethinkDB. The book provides in-depth guidance for building highly scalable backend APIs in Go for your mobile client applications and web client applications. All this means that you'll be able to write programs that get the most out of multicore and networked machines, using Go's novel type system that enables flexible and modular program construction. You'll see how to test your Go applications so they are ready for deployment, as well as learning how to write HTTP servers to offer you maximum flexibility when dealing with remote clients. What You'll Learn Work with the

core fundamentals of Go Persist data into NoSQL databases Build scalable backend APIs Test your Go applications Create HTTP web servers in Go Who This Book Is For Experienced programmers who have some or no prior experience with Go. *Discusses regular expressions in quick, easy manner (Friedl book is exhaustive, and other two books are superficial) *Teaches by example without exhaustive syntax explanation *Covers the major open source languages Harness the power of MATLAB to resolve a wide range of machine learning challenges. This book provides a series of examples of technologies critical to machine learning. Each example solves a real-world problem. All code in MATLAB Machine Learning Recipes: A Problem-Solution Approach is executable. The toolbox that the code uses provides a complete set of functions needed to implement all aspects of machine learning. Authors Michael Paluszek and Stephanie Thomas show how all of these technologies allow

the reader to build sophisticated applications to solve problems with pattern recognition, autonomous driving, expert systems, and much more. What you'll learn:How to write code for machine learning, adaptive control and estimation using MATLAB How these three areas complement each other How these three areas are needed for robust machine learning applications How to use MATLAB graphics and visualization tools for machine learning How to code real world examples in MATLAB for major applications of machine learning in big data Who is this book for: The primary audiences are engineers, data scientists and students wanting a comprehensive and code cookbook rich in examples on machine learning using MATLAB. iOS 7 Development Recipes: A Problem-Solution Approach is your code reference and guide to developing solutions on the iPad, iPhone, and other iOS 7 SDK devices and platforms. This book provides in-depth code samples and discussions for scenarios that developers face

every day. You'll find numerous examples of real-world cases that will enable you to build fully functional applications quickly and efficiently. The recipes included in this book are wide in scope and have been geared toward the professional developer. You'll find clear and concise code samples accompanying each recipe, and you will be presented with cutting-edge solutions that bring forth the best that the iOS 7 SDK has to offer. The recipes include:

- Working with Auto Layout to build flexible user interfaces that adapt to different screen sizes
- Building applications that incorporate multimedia
- Building location-aware apps
- Understanding best practices for application design and development

You'll find this book to be an indispensable reference for all your iOS development. Java EE 7 Recipes takes an example-based approach in showing how to program Enterprise Java applications in many different scenarios. Be it a small-business web application, or an enterprise database

application, Java EE 7 Recipes provides effective and proven solutions to accomplish just about any task that you may encounter. You can feel confident using the reliable solutions that are demonstrated in this book in your personal or corporate environment. The solutions in Java EE 7 Recipes are built using the most current Java Enterprise specifications, including EJB 3.2, JSF 2.2, Expression Language 3.0, Servlet 3.1, and JMS 2.0. While older technologies and frameworks exist, it is important to be forward-looking and take advantage of all that the latest technologies offer. Rejuvenate your Java expertise to use the freshest capabilities, or perhaps learn Java Enterprise development for the first time and discover one of the most widely used and most powerful platforms available for application development today. Let Java EE 7 Recipes show you the way by showing how to build streamlined and reliable applications much faster and easier than ever before by making effective use of the latest

frameworks and features on offer in the Java EE 7 release. Shows off the most current Java Enterprise Edition technologies. Provides solutions to creating sophisticated user interfaces. Demonstrates proven solutions for effective database access. Table of Contents Introduction to Servlets JavaServer Pages The Basics of JavaServer Faces Facelets JavaServer Faces Standard Components Advanced JavaServer Faces and Ajax JDBC Object-Relational Mapping Enterprise JavaBeans The Query API and JPQL Oracle's Glassfish Contexts and Dependency Injection Java Message Service Authentication and Security Java Web Services Enterprise Solutions Using Alternative Programming Languages WebSockets and JSON-P JavaFX in the Enterprise Concurrency and Batch Applications

* One of the first books to really offer C# programmers a set of cut-and-paste Visual C# 2005 solutions, in the Apress Recipes series format. Every recipe is specifically chosen and

written to help the emerging Visual C# 2005 professional do their job from day one. * The Apress Recipes series balances code and textual explanations perfectly to explain the new nuances of Visual C# 2005 as well as present the code recipes themselves. * The code in this book comes as a complete stand-alone Visual Studio 2005 Solution, complete with unit tests for all recipes. This means the solutions are really ready to run as soon as the reader opens the book. * Code is authoritative and follows Microsoft's best-practice guidelines for .NET 2.0. Find solutions to problems and answers to questions you are likely to encounter when writing real-world applications in Common Lisp. This book covers areas as diverse as web programming, databases, graphical user interfaces, integration with other programming languages, multi-threading, and mobile devices as well as debugging techniques and optimization, to name just a few. Written by an author who has used Common Lisp in many

successful commercial projects over more than a decade, *Common Lisp Recipes* is also the first Common Lisp book to tackle such advanced topics as environment access, logical pathnames, Gray streams, delivery of executables, pretty printing, setf expansions, or changing the syntax of Common Lisp. The book is organized around specific problems or questions each followed by ready-to-use example solutions and clear explanations of the concepts involved, plus pointers to alternatives and more information. Each recipe can be read independently of the others and thus the book will earn a special place on your bookshelf as a reference work you always want to have within reach. *Common Lisp Recipes* is aimed at programmers who are already familiar with Common Lisp to a certain extent but do not yet have the experience you typically only get from years of hacking in a specific computer language. It is written in a style that mixes hands-on no-frills pragmatism with precise

information and prudent mentorship. If you feel attracted to Common Lisp's mix of breathtaking features and down-to-earth utilitarianism, you'll also like this book. Quickly find solutions to common web development problems. Content is presented in the popular problem-solution format. Look up the problem that you want to solve. Read the solution. Apply the solution directly in your own code. Problem solved!

ASP.NET Core Recipes is a practical guide for developers creating modern web applications, cutting through the complexities of ASP.NET, jQuery, React, and HTML5 to provide straightforward solutions to common web development problems using proven methods based on best practices. The problem-solution approach gets you in, out, and back to work quickly while deepening your understanding of the underlying platform and how to develop with it. Author John Ciliberti guides you through the MVC framework and development tools, presenting typical challenges, along with code

solutions and clear, concise explanations, to accelerate application development. Solve problems immediately by pasting in code from the recipes, or put multiple recipe solutions together to overcome challenging development obstacles. What You'll Learn Take advantage of MVC's streamlined syntax Discover how to take full control over HTML Develop a simple API for creating RESTful web services Understand test-driven development Migrate a project from ASP.NET web forms to Core MVC, including recipes for converting DataGrids, Forms, Web Parts, Master Pages, and navigation controls Use Core MVC in combination with popular JavaScript libraries, including jQuery, React, Bootstrap, and more Write unit tests for your MVC controllers, views, custom filters, and HTML helpers Utilize the latest features in Visual Studio 2017 to accelerate your Core MVC projects Identify performance bottlenecks in your MVC application Who This Book Is For Web developers of all skill levels who are looking for

a programming reference for ASP.NET Core MVC and would like to gain an understanding of the inner workings of the platform. In addition, parts of this book provide guidance to developers familiar with ASP.NET Web Forms who would like to update their skill set to include Core MVC. Solve your Ruby programming problems that occur during your day-to-day scripting work. This book contains a varied selection of practical and interesting code recipes designed to make your coding life easier. Ruby Recipes includes solutions to problems in working with data, handling exceptions, writing blocks, and using regular expressions. This book provides ready scripts for both simple complex scripting tasks, which you can use readily or with only minor modifications. These scripts cover areas such as collections, classes and structures, functional programming, and log handling. With these handy recipes at your fingertips, you will be able to solve those nagging problems and become even more

efficient. What You Will Learn Install and run Ruby Read and write data Write functions Work with arrays, ranges, hashes, and iterators Handle dates and time Process XML as text Master OOP concepts such as classes, objects, subclassing, and inheritance Connect to databases Who This Book Is For Programmers new to Ruby, and web developers interested in knowing the foundations of the language. Android continues to be one of the leading mobile OS and development platforms driving today's mobile innovations and the apps ecosystem. Android appears complex, but offers a variety of organized development kits to those coming into Android with differing programming language skill sets. Android Recipes: A Problem-Solution Approach guides you step-by-step through a wide range of useful topics using complete and real-world working code examples. In this book, you'll start off with a recap of Android architecture and app fundamentals, and then get down to business and build an app with

Google's Android SDK at the command line and Eclipse. Next, you'll learn how to accomplish practical tasks pertaining to the user interface, communications with the cloud, device hardware, data persistence, communications between applications, and interacting with Android itself. Finally, you'll learn how to leverage various libraries and Scripting Layer for Android (SL4A) to help you perform tasks more quickly, how to use the Android NDK to boost app performance, and how to design apps for performance, responsiveness, seamlessness, and more. Instead of abstract descriptions of complex concepts, in Android Recipes, you'll find live code examples. When you start a new project, you can consider copying and pasting the code and configuration files from this book, then modifying them for your own customization needs. This can save you a great deal of work over creating a project from scratch! In this book, XNA expert Reimer Grootjans brings together a selection of the hottest quick-start

recipes in XNA programming for the Xbox and Windows PC. Advanced XNA programmers, experienced coders new to games development, and even complete beginners will find XNA Game Programming Recipes an invaluable companion when building games for fun or as commercial products. Numerous problem-

solving recipes cover topics from cameras and angles, to textures, models, and lighting and shadowing, and will get you over the common hurdles encountered in both 2D and 3D XNA application design.

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