

## Appengine Oracle Jdeveloper

Advanced PeopleSoft PeopleTools Development Strategies Maximize the efficiency and productivity of your PeopleSoft applications from Oracle using the proven methods and best practices in this Oracle Press guide. PeopleSoft PeopleTools Tips & Techniques lays out the benefits of each tactic along with implementation considerations, programming instructions, and reusable code samples. Construct powerful iScripts, build custom UIs, work with Java and Ajax, and integrate the latest Web 2.0 features. Test-driven development, application security, performance tuning, and debugging are also covered in this authoritative resource. Develop modular logic using PeopleSoft application classes Incorporate file attachment and approval workflow capabilities Add Web elements with PeopleCode iScripts and bookmarklets Enhance functionality using HTML, JavaScript, CSS, and Ajax Extend PeopleSoft Integration Broker through custom connectors Effectively merge Java with PeopleCode to create elegant solutions Use runtime loggers and tracers to test and tune applications Extend the PeopleSoft Web server with JSP, servlets, and filters Create Web-based mobile applications using Oracle JDeveloper

Implement a Hyper-V virtualization solution Microsoft Virtualization with Hyper-V shows you how to deploy

Microsoft's next-generation hypervisor-based server virtualization technology in a corporate environment. You'll get step-by-step guidelines for getting Hyper-V up and running, followed by best practices for building a larger, fault-tolerant solution using System Center Virtual Machine Manager 2008. This hands-on guide explains how to migrate physical systems to the virtual environment; use System Center Operations Manager; and secure, back up, and restore your Hyper-V solution. Plan and implement a Hyper-V installation

- Configure Hyper-V components
- Install and configure System Center Virtual Machine Manager 2008
- Create and manage virtual machines
- Back up and restore virtual machines
- Monitor, back up, and restore the virtual solution
- Secure your Hyper-V environment
- Understand the virtual desktop infrastructure
- Use third-party virtualization tools for Hyper-V

Implement JPA repositories and harness the performance of Redis in your applications.

React is an open-source JavaScript library that is used for building user interfaces or UI components. This React book is designed to take you through the most valuable design patterns in React, helping you learn how to apply design patterns and best practices in real-world scenarios.

Build a 3D rendering engine from scratch while solving problems in a step-by-step way with the help of useful recipes

- Key Features
- Learn to integrate

modern rendering techniques into a single performant 3D rendering engine Leverage Vulkan to render 3D content, use AZDO in OpenGL applications, and understand modern real-time rendering methods Implement a physically based rendering pipeline from scratch in Vulkan and OpenGL Book Description OpenGL is a popular cross-language, cross-platform application programming interface (API) used for rendering 2D and 3D graphics, while Vulkan is a low-overhead, cross-platform 3D graphics API that targets high-performance applications. 3D Graphics Rendering Cookbook helps you learn about modern graphics rendering algorithms and techniques using C++ programming along with OpenGL and Vulkan APIs. The book begins by setting up a development environment and takes you through the steps involved in building a 3D rendering engine with the help of basic, yet self-contained, recipes. Each recipe will enable you to incrementally add features to your codebase and show you how to integrate different 3D rendering techniques and algorithms into one large project. You'll also get to grips with core techniques such as physically based rendering, image-based rendering, and CPU/GPU geometry culling, to name a few. As you advance, you'll explore common techniques and solutions that will help you to work with large datasets for 2D and 3D rendering. Finally, you'll discover how to apply

optimization techniques to build performant and feature-rich graphics applications. By the end of this 3D rendering book, you'll have gained an improved understanding of best practices used in modern graphics APIs and be able to create fast and versatile 3D rendering frameworks. What you will learn

- Improve the performance of legacy OpenGL applications
- Manage a substantial amount of content in real-time 3D rendering engines
- Discover how to debug and profile graphics applications
- Understand how to use the Approaching Zero Driver Overhead (AZDO) philosophy in OpenGL
- Integrate various rendering techniques into a single application
- Find out how to develop Vulkan applications
- Implement a physically based rendering pipeline from scratch
- Integrate a physics library with your rendering engine

Who this book is for This book is for 3D graphics developers who are familiar with the mathematical fundamentals of 3D rendering and want to gain expertise in writing fast rendering engines with advanced techniques using C++ libraries and APIs. A solid understanding of C++ and basic linear algebra, as well as experience in creating custom 3D applications without using premade rendering engines is required.

Java® Performance Companion shows how to systematically and proactively improve Java performance with today's advanced multicore hardware and complex operating system

environments. The authors, who are all leading Java performance and Java HotSpot VM experts, help you improve performance by using modern software engineering practices, avoiding common mistakes, and applying tips and tricks gleaned from years of real-world experience. Picking up where Charlie Hunt and Binu John's classic *Java Performance* left off, this book provides unprecedented detail on two powerful Java platform innovations: the Garbage First (G1) garbage collector and the HotSpot VM Serviceability Agent. Coverage includes Leveraging G1 to overcome limitations in parallel, serial, and CMS garbage collection Understanding each stage of G1 GC collections, both young and old Getting under the hood with G1 and efficiently fine-tuning it for your application Identifying potential optimizations, interpreting experimental results, and taking action Exploring the internals of the HotSpot VM Using HotSpot VM Serviceability Agent to analyze, triage, and resolve diverse HotSpot VM issues Troubleshooting out of memory errors, Java level deadlocks, and HotSpot VM crashes Extending the Serviceability Agent, and using the Plugin for VisualVM Mastering useful HotSpot VM command line options not covered in *Java™ Performance* *Java® Performance Companion* can help you squeeze maximum performance and value from Java with JDK 8 or 9—for any application, in any environment. Register your product at

[informit.com/register](http://informit.com/register) for convenient access to downloads, updates, and corrections as they become available.

Fully updated for Android Studio 4.0, Android 10 (Q), Android Jetpack and the modern architectural guidelines and components, the goal of this book is to teach the skills necessary to develop Android-based applications using the Kotlin programming language. Beginning with the basics, this book provides an outline of the steps necessary to set up an Android development and testing environment followed by an introduction to programming in Kotlin including data types, flow control, functions, lambdas, coroutines and object-oriented programming. An overview of Android Studio is included covering areas such as tool windows, the code editor and the Layout Editor tool. An introduction to the architecture of Android is followed by an in-depth look at the design of Android applications and user interfaces using the Android Studio environment. Chapters are also included covering the Android Architecture Components including view models, lifecycle management, Room databases, app navigation, live data and data binding. More advanced topics such as intents are also covered, as are touch screen handling, gesture recognition and the playback and recording of audio. This edition of the book also covers printing, transitions, cloud-based file storage and foldable

device support. The concepts of material design are also covered in detail, including the use of floating action buttons, Snackbars, tabbed interfaces, card views, navigation drawers and collapsing toolbars. In addition to covering general Android development techniques, the book also includes Google Play specific topics such as implementing maps using the Google Maps Android API, and submitting apps to the Google Play Developer Console. Other key features of Android Studio 4.0 and the Android SDK are also covered in detail including the Layout Editor, the ConstraintLayout and ConstraintSet classes, MotionLayout animation, constraint chains and barriers, view binding, direct reply notifications and multi-window support. Chapters also cover advanced features of Android Studio such as App Links, Dynamic Feature Modules, the Android Studio Profiler and Gradle build configuration. Assuming you already have some programming experience, are ready to download Android Studio and the Android SDK, have access to a Windows, Mac or Linux system and ideas for some apps to develop, you are ready to get started.

Being familiar with object-oriented design is an essential part of programming in Python. This new edition includes all the topics that made Python Object-Oriented Programming an instant Packt classic. Moreover, it's packed with updated content to reflect more recent changes in the core Python

libraries and cover modern third-party packages. Master Oracle SOA Suite 12c Design, implement, manage, and maintain a highly flexible service-oriented computing infrastructure across your enterprise using the detailed information in this Oracle Press guide. Written by an Oracle ACE director, Oracle SOA Suite 12c Handbook uses a start-to-finish case study to illustrate each concept and technique. Learn expert techniques for designing and implementing components, assembling composite applications, integrating Java, handling complex business logic, and maximizing code reuse. Runtime administration, governance, and security are covered in this practical resource. Get started with the Oracle SOA Suite 12c development and run time environment Deploy and manage SOA composite applications Expose SOAP/XML REST/JSON through Oracle Service Bus Establish interactions through adapters for Database, JMS, File/FTP, UMS, LDAP, and Coherence Embed custom logic using Java and the Spring component Perform fast data analysis in real time with Oracle Event Processor Implement Event Drive Architecture based on the Event Delivery Network (EDN) Use Oracle Business Rules to encapsulate logic and automate decisions Model complex processes using BPEL, BPMN, and human task components Establish KPIs and evaluate performance using Oracle Business Activity Monitoring Control traffic, audit system activity, and encrypt sensitive data

The Definitive Guide to JavaServer Faces 2.0 Fully revised and updated for all of the changes in JavaServer Faces (JSF) 2.0, this comprehensive volume covers



every aspect of the official standard Web development architecture for JavaEE. Inside this authoritative resource, the co-spec lead for JSF at Sun Microsystems shows you how to create dynamic, cross-browser Web applications that deliver a world-class user experience while preserving a high level of code quality and maintainability. *JavaServer Faces 2.0: The Complete Reference* features an integrated sample application to use as a model for your own JSF applications, with code available online. The book explains all JSF features, including the request processing lifecycle, managed beans, page navigation, component development, Ajax, validation, internationalization, and security. Expert Group Insights throughout the book offer insider information on the design of JSF. Set up a development environment and build a JSF application Understand the JSF request processing lifecycle Use the Facelets View Declaration Language, managed beans, and the JSF expression language (EL) Define page flow with the JSF Navigation Model, including the new "Implicit Navigation" feature Work with the user interface component model and the JSF event model, including support for bookmarkable pages and the POST, REDIRECT, GET pattern Use the new JSR-303 Bean Validation standard for model data validation Build Ajax-enabled custom UI components Extend JSF with custom non-UI components Manage security, accessibility, internationalization, and localization Learn how to work with JSF and Portlets from the JSF Team Leader at Liferay, the leading Java Portal vendor Ed Burns is a senior staff engineer at Sun Microsystems and is the co-

specification lead for JavaServer Faces. He is the co-author of JavaServer Faces: The Complete Reference and author of Secrets of the Rock Star Programmers. Chris Schalk is a developer advocate and works to promote Google's APIs and technologies. He is currently engaging the international Web development community with the new Google App Engine and OpenSocial APIs. Neil Griffin is committer and JSF Team Lead for Liferay Portal and the co-founder of The PortletFaces Project. Ready-to-use code at

[www.mhprofessional.com/computingdownload](http://www.mhprofessional.com/computingdownload)

This book helps you use the open-source Flutter framework for building native mobile apps using Dart. You'll learn about Dart programming and add functionalities to your Android and iOS apps for truly native performance. The book also covers recipes for solving almost any issue that you may face while developing multi-platform applications.

The Paradoxical Union: Category: Novel ? Fiction (Spiritual Short-Story) with Religion/Inspirational message ? Family & Relationships/Divorce: Manhattan, New York City Borough, primary setting beginning in the 1980s The Paradoxical Union, follows the life of the main character named Paris Hope who powers through multiple trials, tribulation, and challenges growing up, then as a young woman enters a relationship seemingly created by heaven, but they were from opposite worlds. Instead, Paris soon learns that she entered into unhealthy and toxic matrimony that leads to a sheer pit of hell. The union gradually augments to an intertwined subtle ploy, extensive abuse, mental cruelty, aggression,

and domestic violence. The character Paris has a loving spirit. She is intellectual, ambiguous, classy and has big aspirations and dreams, but; becomes stripped "TO her joy,"—but not stripped of it. After devastating struggles and traumatization fostered by the twisted union, she finds a way "TO" escape finding survival through faith, shaping who she'd become, and accomplishing her dreams. Paris' intimate partner is a community, national and global figure who is self-exalted, grandiose and breeds narcissism. Dr. Melveena D. Edwards the author and therapist, is the narrator of this short-story who has the birds-eye-view of all the goings-on from the perspective of Paris. Dr. Edwards is the outsider looking into Paris' life as she pauses, revisits, and sojourns to impart her experience regarding the severe social epidemic issue of abusive and violence culture that plagues our society today. Paris shares her "must tell all" story to help and motivate someone. In so telling the story, Dr. Edwards is educational and shares vital facts promoting awareness.

\* A proven best-seller by the most recognized Oracle expert in the world. \* The best Oracle book ever written. It defines what Oracle really is, and why it is so powerful. \* Inspired by the thousands of questions Tom has answered on his <http://asktom.oracle.com> site. It tackles the problems that developers and DBAs struggle with every day. \* Provides everything you need to know to program correctly with the database and exploit its feature-set effectively.

Software testing is indispensable and is one of the most discussed topics in software development today. Many

companies address this issue by assigning a dedicated software testing phase towards the end of their development cycle. However, quality cannot be tested into a buggy application. Early and continuous unit testing has been shown to be crucial for high quality software and low defect rates. Yet current books on testing ignore the developer's point of view and give little guidance on how to bring the overwhelming amount of testing theory into practice. *Unit Testing in Java* represents a practical introduction to unit testing for software developers. It introduces the basic test-first approach and then discusses a large number of special issues and problem cases. The book instructs developers through each step and motivates them to explore further. Shows how the discovery and avoidance of software errors is a demanding and creative activity in its own right and can build confidence early in a project. Demonstrates how automated tests can detect the unwanted effects of small changes in code within the entire system. Discusses how testing works with persistency, concurrency, distribution, and web applications. Includes a discussion of testing with C++ and Smalltalk.

Modern embedded systems are used for connected, media-rich, and highly integrated handheld devices such as mobile phones, digital cameras, and MP3 players. All of these embedded systems require networking, graphic user interfaces, and integration with PCs, as opposed to traditional embedded processors that can perform only limited functions for industrial applications. While most books focus on these controllers, *Modern Embedded*

Computing provides a thorough understanding of the platform architecture of modern embedded computing systems that drive mobile devices. The book offers a comprehensive view of developing a framework for embedded systems-on-chips. Examples feature the Intel Atom processor, which is used in high-end mobile devices such as e-readers, Internet-enabled TVs, tablets, and net books. Beginning with a discussion of embedded platform architecture and Intel Atom-specific architecture, modular chapters cover system boot-up, operating systems, power optimization, graphics and multi-media, connectivity, and platform tuning.

Companion lab materials compliment the chapters, offering hands-on embedded design experience. Learn embedded systems design with the Intel Atom Processor, based on the dominant PC chip architecture. Examples use Atom and offer comparisons to other platforms Design embedded processors for systems that support gaming, in-vehicle infotainment, medical records retrieval, point-of-sale purchasing, networking, digital storage, and many more retail, consumer and industrial applications Explore companion lab materials online that offer hands-on embedded design experience

About the Book : - PeopleSoft PeopleTools Tips & Techniques helps you to hone intermediate to advanced PeopleSoft development skills. This Oracle Press guide contains a comprehensive array of examples and documentation that cannot be found in any other source. You ll work through a series of development scenarios that increase in complexity, ending with examples and documentation that will challenge, inspire, and educate

even the most highly skilled PeopleSoft developers.

**PeopleSoft PeopleTools Tips & Techniques:** Contains undocumented techniques not available elsewhere Is written by one of the foremost experts on PeopleSoft development worldwide Covers Java, JavaScript, and Ajax Includes tips for improving the PeopleSoft development process with Test Driven Development (TDD) Jim J. Marion, a PeopleSoft Certified Developer, is a Senior Applications Technology Consultant at Oracle.

" Ten practical real-world case studies combining business process management and web services orchestration in this book and eBook Real-world BPEL recipes for SOA integration and Composite Application development Combining business process management and web services orchestration Techniques and best practices with downloadable code samples from ten real-world case studies In Detail Service Oriented Architecture is generating a buzz across the whole IT industry. Propelled by standards-based technologies like XML, Web Services, and SOAP, SOA is quickly moving from pilot projects to mainstream applications critical to business operations. One of the key standards accelerating the adoption of SOA is Business Process Execution Language for Web Services (BPEL). BPEL was created to enable effective composition of web services in a service-oriented environment. In the past two years, BPEL has become the most significant standard to elevate the visibility of SOA from IT to business level. BPEL is not only commoditizing the integration market, but it is also offering organizations a whole new level of agility â€" ability to rapidly change

applications in response to the changing business landscape. BPEL enables organizations to automate their business processes by orchestrating services within and across the firewall. It forces organizations to think in terms of services. Existing functionality is exposed as services. New applications are composed using services. Communication with external vendors and partners is through services. Services are reused across different applications. Services are, or should be, everywhere! This book is not just another generic set of Service Oriented Architecture (SOA) best practices with only general recommendations and advice: instead itâ€™s a unique cookbook that shows you how SOA applications are built using best practices that are proven in 10 real-world scenarios. The book consists of three sections. The first two sections will inspire you. They showcase real-life projects on BPEL-based integration and development of composite applications. Youâ€™ll see that SOA is a reality today, learn what successful implementations are like, and how SOA can work for you right now. It will encourage you to take a plunge into the world of services and test-drive SOA yourself. If you are already in the middle of an SOA implementation, these sections will offer you fresh insight into your current approach, help you to deal w...

This book will show you how to create robust, scalable, highly available and fault-tolerant solutions by learning different aspects of Solution architecture and next-generation architecture design in the Cloud environment. A practical guide for building effective enterprise solutions with Java EE 8 Key Features Recipes to get

you up-and-running with Java EE 8 application development Learn how to apply the major Java EE 8 APIs and specifications Implement microservices and Reactive programming with Java EE 8 Book Description Java EE is a collection of technologies and APIs to support Enterprise Application development. The choice of what to use and when can be dauntingly complex for any developer. This book will help you master this. Packed with easy to follow recipes, this is your guide to becoming productive with Java EE 8. You will begin by seeing the latest features of Java EE 8, including major Java EE 8 APIs and specifications such as JSF 2.3, and CDI 2.0, and what they mean for you. You will use the new features of Java EE 8 to implement web-based services for your client applications. You will then learn to process the Model and Streaming APIs using JSON-P and JSON-B and will learn to use the Java Lambdas support offered in JSON-P. There are more recipes to fine-tune your RESTful development, and you will learn about the Reactive enhancements offered by the JAX-RS 2.1 specification. Later on, you will learn about the role of multithreading in your enterprise applications and how to integrate them for transaction handling. This is followed by implementing microservices with Java EE and the advancements made by Java EE for cloud computing. The final set of recipes shows you how take advantage of the latest security features and authenticate your enterprise application. At the end of the book, the Appendix shows you how knowledge sharing can change your career and your life. What you will learn Actionable information on the new features of



Java EE 8 Using the most important APIs with real and working code Building server side applications, web services, and web applications Deploying and managing your application using the most important Java EE servers Building and deploying microservices using Java EE 8 Building Reactive application by joining Java EE APIs and core Java features Moving your application to the cloud using containers Practical ways to improve your projects and career through community involvement Who this book is for This book is for developers who want to become proficient with Java EE 8 for their enterprise application development. Basic knowledge of Java is assumed

Microservices and big-data increasingly confront us with the limitations of traditional input/output. In traditional IO, work that is IO-bound dominates threads. This wouldn't be such a big deal if we could add more threads cheaply, but threads are expensive on the JVM, and most other platforms. Even if threads were cheap and infinitely scalable, we'd still be confronted with the faulty nature of networks. Things break, and they often do so in subtle, but non-exceptional ways. Traditional approaches to integration bury the faulty nature of networks behind overly simplifying abstractions. We need something better. Join Spring Developer Advocate Josh Long for an introduction to reactive programming in the Spring ecosystem, leveraging the reactive streams specification, Reactor, Spring Boot, Spring Cloud and so much more. This book will cover important concepts in reactive programming including project Reactor and the reactive streams specification, data access, web programming,

RPC with protocols like RSocket, testing, and integration and composition, and more.

Master Oracle's PeopleSoft PeopleTools Data Administration and Upgrade Toolset Maximize data integrity, maintain peak application performance, and keep your PeopleSoft environment up to date.

PeopleSoft PeopleTools Data Management and Upgrade Handbook explains the latest techniques and provides best practices, case studies, and programming examples. Find out how to develop and deploy data mover scripts, audit database health, apply patches, and generate project comparison reports. This Oracle Press guide offers thorough coverage of Oracle's PeopleSoft life cycle management tools. Understand PeopleSoft PeopleTools architecture Manage metadata using PeopleSoft Application Designer Create and execute PeopleSoft Data Mover scripts Learn how to use PeopleSoft Data Archive Manager Read best practices for applying updates, patches, and fixes Implement PeopleSoft change control features Build automated functional tests Plan and execute application and platform upgrades

Develop and deploy fully functional applications and microservices utilising Tomcat, Glassfish servers, Cloud and docker in Java EE 8 Key Features Explore the complete workflow of developing enterprise Java applications Develop microservices with Docker Container and deploy it in cloud Simplify Java EE application development Book Description Java EE is one of the most popular tools for enterprise application design and development. With recent changes to Java

EE 8 specifications, Java EE application development has become a lot simpler with the new specifications, some of which compete with the existing specifications. This guide provides a complete overview of developing highly performant, robust and secure enterprise applications with Java EE with Eclipse. The book begins by exploring different Java EE technologies and how to use them (JSP, JSF, JPA, JDBC, EJB, and more), along with suitable technologies for different scenarios. You will learn how to set up the development environment for Java EE applications and understand Java EE specifications in detail, with an emphasis on examples. The book takes you through deployment of an application in Tomcat, GlassFish Servers, and also in the cloud. It goes beyond the basics and covers topics like debugging, testing, deployment, and securing your Java EE applications. You'll also get to know techniques to develop cloud-ready microservices in Java EE. What you will learn

- Set up Eclipse, Tomcat, and Glassfish servers for Java EE application development
- Use JSP, Servlet, JSF, and EJBs to create a user interface and write business logic
- Create Java EE database applications using JDBC and JPA
- Handle asynchronous messages using MDBs for better scalability
- Deploy and debug Java EE applications and create SOAP and REST web services
- Write unit tests and calculate code coverage
- Use Eclipse MAT (Memory Analysis Tool) to debug memory issues
- Create and deploy microservices

Who this book is for

If you are a Java developer with little or no experience in Java EE application development, or if you have experience in Java EE technology but are

looking for tips to simplify and accelerate your development process, then this book is for you. Explore Golang's data structures and algorithms to design, implement, and analyze code in the professional setting

### Key Features

- Learn the basics of data structures and algorithms and implement them efficiently
- Use data structures such as arrays, stacks, trees, lists and graphs in real-world scenarios
- Compare the complexity of different algorithms and data structures for improved code performance

### Book Description

Golang is one of the fastest growing programming languages in the software industry. Its speed, simplicity, and reliability make it the perfect choice for building robust applications. This brings the need to have a solid foundation in data structures and algorithms with Go so as to build scalable applications. Complete with hands-on tutorials, this book will guide you in using the best data structures and algorithms for problem solving. The book begins with an introduction to Go data structures and algorithms. You'll learn how to store data using linked lists, arrays, stacks, and queues. Moving ahead, you'll discover how to implement sorting and searching algorithms, followed by binary search trees. This book will also help you improve the performance of your applications by stringing data types and implementing hash structures in algorithm design. Finally, you'll be able to apply traditional data structures to solve real-world problems. By the end of the book, you'll have become adept at implementing classic data structures and algorithms in Go, propelling you to become a confident Go programmer. What you will learn

- Improve application performance using the most suitable

data structure and algorithm Explore the wide range of classic algorithms such as recursion and hashing algorithms Work with algorithms such as garbage collection for efficient memory management Analyze the cost and benefit trade-off to identify algorithms and data structures for problem solving Explore techniques for writing pseudocode algorithm and ace whiteboard coding in interviews Discover the pitfalls in selecting data structures and algorithms by predicting their speed and efficiency Who this book is for This book is for developers who want to understand how to select the best data structures and algorithms that will help solve coding problems. Basic Go programming experience will be an added advantage.

**USE THE ACTOR MODEL TO BUILD SIMPLER SYSTEMS WITH BETTER PERFORMANCE AND SCALABILITY** Enterprise software development has been much more difficult and failure-prone than it needs to be. Now, veteran software engineer and author Vaughn Vernon offers an easier and more rewarding method to succeeding with Actor model. *Reactive Messaging Patterns with the Actor Model* shows how the reactive enterprise approach, Actor model, Scala, and Akka can help you overcome previous limits of performance and scalability, and skillfully address even the most challenging non-functional requirements. Reflecting his own cutting-edge work, Vernon shows architects and developers how to translate the longtime promises of Actor model into practical reality. First, he introduces the tenets of reactive software, and shows how the message-driven Actor model addresses all of

them—making it possible to build systems that are more responsive, resilient, and elastic. Next, he presents a practical Scala bootstrap tutorial, a thorough introduction to Akka and Akka Cluster, and a full chapter on maximizing performance and scalability with Scala and Akka. Building on this foundation, you'll learn to apply enterprise application and integration patterns to establish message channels and endpoints; efficiently construct, route, and transform messages; and build robust systems that are simpler and far more successful. Coverage Includes How reactive architecture replaces complexity with simplicity throughout the core, middle, and edges The characteristics of actors and actor systems, and how Akka makes them more powerful Building systems that perform at scale on one or many computing nodes Establishing channel mechanisms, and choosing appropriate channels for each application and integration challenge Constructing messages to clearly convey a sender's intent in communicating with a receiver Implementing a Process Manager for your Domain-Driven Designs Decoupling a message's source and destination, and integrating appropriate business logic into its router Understanding the transformations a message may experience in applications and integrations Implementing persistent actors using Event Sourcing and reactive views using CQRS Find unique online training on Domain-Driven Design, Scala, Akka, and other software craftsmanship topics using the [for{comprehension}](http://forcomprehension.com) website at [forcomprehension.com](http://forcomprehension.com).

Designed for a broad spectrum of people with

technically diverse backgrounds, this book covers the most recent developments in Web 2.0 programming topics and applications, including up-to-date material on cloud computing, Google AppEngine, Social Networks, Comet, HTML5, semantic technology, and a chapter on the future of the Web. This book prepares readers for more advanced technical topics in Web 2.0. The accompanying CD-ROM and companion website provide code samples from the book and appendices with an extensive set of links (over 1,000) for supplemental material and links for the Twitter and Facebook pages. (Please note, eBook version does not include CD-ROM).

"Focuses on the technology innovations that may help in building virtual businesses and making existing businesses smarter and efficient in their operations. Intended to help key decision makers understand more about introducing new technologies into businesses"--

Summary Scala in Depth is a unique new book designed to help you integrate Scala effectively into your development process. By presenting the emerging best practices and designs from the Scala community, it guides you through dozens of powerful techniques example by example. About the Book Scala is a powerful JVM language that blends the functional and OO programming models. You'll have no trouble getting introductions to Scala in books or

online, but it's hard to find great examples and insights from experienced practitioners. You'll find them in *Scala in Depth*. There's little heavy-handed theory here—just dozens of crisp, practical techniques for coding in Scala. Written for readers who know Java, Scala, or another OO language. Purchase of the print book comes with an offer of a free PDF, ePub, and Kindle eBook from Manning. Also available is all code from the book. What's Inside Concise, expressive, and readable code style How to integrate Scala into your existing Java projects Scala's 2.8.0 collections API How to use actors for concurrent programming Mastering the Scala type system Scala's OO features—type member inheritance, multiple inheritance, and composition Functional concepts and patterns—immutability, applicative functors, and monads =====  
===== ? ===== Table of Contents Scala—a blended language The core rules Modicum of style—coding conventions Utilizing object orientation Using implicits to write expressive code The type system Using implicits and types together Using the right collection Actors Integrating Scala with Java Patterns in functional programming Twelve Years a Slave (1853) is a memoir and slave narrative by Solomon Northup, as told to and edited by David Wilson. Northup, a black man who was born free in New York, details his kidnapping in



Washington, D.C. and subsequent sale into slavery. After having been kept in bondage for 12 years in Louisiana by various masters, Northup was able to write to friends and family in New York, who were in turn able to secure his release. Northup's account provides extensive details on the slave markets in Washington, D.C. and New Orleans and describes at length cotton and sugar cultivation on major plantations in Louisiana.

The Essential Guide to SQL Statement Optimization Written by Oracle ACE Director and MySQL expert Ronald Bradford, *Effective MySQL: Optimizing SQL Statements* is filled with detailed explanations and practical examples that can be applied immediately to improve database and application performances.

Featuring a step-by-step approach to SQL optimization, this Oracle Press book helps you to analyze and tune problematic SQL statements.

Identify the essential analysis commands for gathering and diagnosing issues Learn how different index theories are applied and represented in

MySQL Plan and execute informed SQL

optimizations Create MySQL indexes to improve query performance Master the MySQL query

execution plan Identify key configuration variables that impact SQL execution and performance Apply

the SQL optimization lifecycle to capture, identify, confirm, analyze, and optimize SQL statements and verify the results Improve index utilization with

covering indexes and partial indexes Learn hidden performance tips for improving index efficiency and simplifying SQL statements

\* Only in-depth guide on the market focused purely on telling J2EE developers exactly what they need to know to get their J2EE applications up and running on Oracle AS 10g. \* Covers the very latest release and provides tons of tips/workarounds compiled by an expert author during numerous projects. \*

Compares and contrasts the Oracle AS 10g implementation to other J2EE application servers (particularly WebLogic, WebSphere and JBoss), taking advantage of the experience many readers already have with those products. This makes it an ideal book for anyone migrating to 10G from another app server.

Developers and DBAs use Oracle SQL coding on a daily basis, whether for application development, finding problems, fine-tuning solutions to those problems, or other critical DBA tasks. Oracle SQL: Jumpstart with Examples is the fastest way to get started and to quickly locate answers to common (and uncommon) questions. It includes all the basic queries: filtering, sorting, operators, conditionals, pseudocolumns, single row functions, joins, grouping and summarizing, grouping functions, subqueries, composite queries, hierarchies, flashback queries, parallel queries, expressions and regular expressions, DML, datatypes (including collections),

XML in Oracle, DDL for basic database objects such as tables, views and indexes, Oracle Partitioning, security, and finally PL/SQL. \* Each of the hundreds of SQL code examples was tested on a working Oracle 10g database \* Invaluable everyday tool that provides an absolute plethora of properly tested examples of Oracle SQL code \* Authors have four decades of commercial experience between them as developers and database administrators

There are three parts to tuning an Oracle database: data modeling, SQL code tuning and physical database configuration. A data model contains tables and relationships between tables. Tuning a data model involves normalization and de-normalization. Different approaches are required depending on the application, such as OLTP or a Data Warehouse. Inappropriate database design can make SQL code impossible to tune. Poor data modeling can have a most profound effect on database performance since all SQL code is constructed from the data model. Poorly written SQL code is often a culprit of performance problems and is expensive to rectify. However, tuning of SQL code is generally cheaper than changing the data model. SQL code tends to be contained inside independent blocks within applications or stored procedures. Physical database tuning involves hardware resource usage, networking and various other Oracle things such as configuration and file

distribution. Physical configuration is often a culprit of poor performance where Oracle is installed with defaults, and never altered by an expert. \*Includes all three aspects of Oracle database tuning: data model tuning, SQL & PL/SQL code tuning, physical plus configuration tuning \*Contains experienced guidance and real-world examples using large datasets \*Emphasizes development as opposed to operating system perspective

Economics-driven Software Architecture presents a guide for engineers and architects who need to understand the economic impact of architecture design decisions: the long term and strategic viability, cost-effectiveness, and sustainability of applications and systems. Economics-driven software development can increase quality, productivity, and profitability, but comprehensive knowledge is needed to understand the architectural challenges involved in dealing with the development of large, architecturally challenging systems in an economic way. This book covers how to apply economic considerations during the software architecting activities of a project. Architecture-centric approaches to development and systematic evolution, where managing complexity, cost reduction, risk mitigation, evolvability, strategic planning and long-term value creation are among the major drivers for adopting such approaches. It assists the objective assessment of the lifetime costs and benefits of evolving systems, and the identification of legacy situations, where architecture or a component is indispensable but can no longer be evolved to meet changing needs at economic cost. Such consideration will form the scientific foundation for reasoning about the economics of nonfunctional requirements in the context of architectures and architecting. Familiarizes

readers with essential considerations in economic-informed and value-driven software design and analysis Introduces techniques for making value-based software architecting decisions Provides readers a better understanding of the methods of economics-driven architecting

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"The promise of cloud computing is here. These pages provide the 'eyes wide open' insights you need to transform your business." --Christopher Crowhurst, Vice President, Strategic Technology, Thomson Reuters

A Down-to-Earth Guide to Cloud Computing Cloud Computing: A Practical Approach provides a comprehensive look at the emerging paradigm of Internet-based enterprise applications and services. This accessible book offers a broad introduction to cloud computing, reviews a wide variety of currently available solutions, and discusses the cost savings and organizational and operational benefits. You'll find details on essential topics, such as hardware, platforms, standards, migration, security, and storage. You'll also learn what other organizations are doing and where they're headed with cloud computing. If your company is considering the move from a traditional network infrastructure to a cutting-edge cloud solution, you need this strategic guide. Cloud Computing: A Practical Approach covers: Costs, benefits, security issues, regulatory concerns, and limitations Service providers, including Google, Microsoft, Amazon, Yahoo, IBM, EMC/VMware, Salesforce.com, and others Hardware, infrastructure, clients, platforms, applications, services, and storage Standards, including HTTP, HTML, DHTML, XMPP, SSL, and OpenID Web services, such as REST, SOAP, and JSON Platform as a Service (PaaS), Software as a Service (SaaS), and Software plus Services (S+S) Custom application development environments, frameworks,

strategies, and solutions Local clouds, thin clients, and virtualization Migration, best practices, and emerging standards

Oracle is placing its enterprise application strategy at the center of its future growth Oracle PeopleSoft will be phasing out its current reports product soon, and all reports will need to be rewritten in XML Publisher

The traditional division of labor between the database (which only stores and manages SQL and XML data for fast, easy data search and retrieval) and the application server (which runs application or business logic, and presentation logic) is obsolete. Although the book's primary focus is on programming the Oracle Database, the concepts and techniques provided apply to most RDBMS that support Java including Oracle, DB2, Sybase, MySQL, and PostgreSQL. This is the first book to cover new Java, JDBC, SQLJ, JPublisher and Web Services features in Oracle Database 10g Release 2 (the coverage starts with Oracle 9i Release 2). This book is a must-read for database developers audience (DBAs, database applications developers, data architects), Java developers (JDBC, SQLJ, J2EE, and OR Mapping frameworks), and to the emerging Web Services assemblers. Describes pragmatic solutions, advanced database applications, as well as provision of a wealth of code samples. Addresses programming models which run within the database as well as programming models which run in middle-tier or client-tier against the database. Discusses languages for stored procedures: when to use proprietary languages such as PL/SQL and when to use standard languages such as Java; also running non-Java scripting languages in the database. Describes the Java runtime in the Oracle database 10g (i.e., OracleJVM), its architecture, memory management, security management, threading, Java execution, the Native Compiler (i.e., NCOMP), how to make

Java known to SQL and PL/SQL, data types mapping, how to call-out to external Web components, EJB components, ERP frameworks, and external databases. Describes JDBC programming and the new Oracle JDBC 10g features, its advanced connection services (pooling, failover, load-balancing, and the fast database event notification mechanism) for clustered databases (RAC) in Grid environments. Describes SQLJ programming and the latest Oracle SQLJ 10g features , contrasting it with JDBC. Describes the latest Database Web services features, Web services concepts and Services Oriented Architecture (SOA) for DBA, the database as Web services provider and the database as Web services consumer. Abridged coverage of JPublisher 10g, a versatile complement to JDBC, SQLJ and Database Web Services.

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