

## Sample Chapter 2 Manning Publications Co

Summary Spring Roo in Action is a unique book that teaches you how to code Java in Roo, with a particular focus on Spring-based applications. Through hands-on examples, you'll learn how Roo creates well-formed application structures and supports best practices and tools. Plus, you'll get a quick-and-dirty guide to setting up Roo effectively in your environment. About the Technology Roo is a lightweight Java console shell that simplifies compile-time tasks. It improves productivity by enforcing correct coding practices and patterns and integrates with mainstream Java technologies, including ActiveMQ, GWT, JPA, and OSGi. And, when you finish coding, it gets out of the way so there's no runtime impact. About the Book Spring Roo in Action teaches you to code Java more efficiently using Roo. With the help of many examples, it shows you how to build application components from the database layer to the user interface. The book takes a test-first approach and points out how Roo can help automate many of the mundane details of coding Java apps. Along the way, you'll address important topics like security, messaging, and cloud computing. This book is for Java developers who want to get more productive by using Roo. 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 Learn Roo from the ground up Integrate with existing projects Create custom add-ons Use Roo with Spring

===== ? ===== Table of Contents PART 1 STARTING SPRING APPS RAPIDLY WITH ROO What is Spring Roo? Getting started with Roo PART 2 DATABASES AND ENTITIES Database persistence with entities Relationships, JPA, and advanced persistence PART 3 WEB DEVELOPMENT Rapid web applications with Roo Advanced web applications RIA and other web frameworks Configuring security PART 4 INTEGRATION Testing your application Enterprise services—email and messaging Roo add-ons Advanced add-ons and deployment PART 5 ROO IN THE CLOUD Cloud computing Workflow applications using Spring Integration Summary Reactive Application Development is a hands-on guide that teaches you how to build reliable enterprise applications using reactive design patterns. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. Foreword by Jonas Bonér, Creator of Akka About the Technology Mission-critical applications have to respond instantly to changes in load, recover gracefully from failure, and satisfy exacting requirements for performance, cost, and reliability. That's no small task! Reactive designs make it easier to meet these demands through modular, message-driven

architecture, innovative tooling, and cloud-based infrastructure. About the Book Reactive Application Development teaches you how to build reliable enterprise applications using reactive design patterns. This hands-on guide begins by exposing you to the reactive mental model, along with a survey of core technologies like the Akka actors framework. Then, you'll build a proof-of-concept system in Scala, and learn to use patterns like CQRS and Event Sourcing. You'll master the principles of reactive design as you implement elasticity and resilience, integrate with traditional architectures, and learn powerful testing techniques. What's Inside Designing elastic domain models Building fault-tolerant systems Efficiently handling large data volumes Examples can be built in Scala or Java About the Reader Written for Java or Scala programmers familiar with distributed application designs. About the Author Duncan DeVore, Sean Walsh, and Brian Hanafee are seasoned architects with experience building and deploying reactive systems in production. Table of Contents PART 1 - FUNDAMENTALS What is a reactive application? Getting started with Akka Understanding Akka PART 2 - BUILDING A REACTIVE APPLICATION Mapping from domain to toolkit Domain-driven design Using remote actors Reactive streaming CQRS and Event Sourcing A reactive interface Production readiness Rust in Action introduces the Rust programming language by exploring numerous

systems programming concepts and techniques. You'll be learning Rust by delving into how computers work under the hood. You'll find yourself playing with persistent storage, memory, networking and even tinkering with CPU instructions. The book takes you through using Rust to extend other applications and teaches you tricks to write blindingly fast code. You'll also discover parallel and concurrent programming. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications.

The design of a highway drainage channel to carry a given discharge is accomplished in two parts. The first part of the design involves the computation of a channel section which will carry the design discharge on the available slope. This chapter briefly discusses the principles of flow in open channels and the use of the Manning equation for computing the channel capacity. The second part of the design is the determination of the degree of protection required to prevent erosion in the drainage channel. This can be done by computing the velocity in the channel at the design discharge, using the Manning equation, and comparing the calculated velocity with that permissible for the type of channel lining used. A change in the type of channel lining will require a change in channel size unless both linings have the same roughness coefficient.

Provides information on the fundamentals of Microsoft SQL Server 2005 Analysis

### Services.

Summary Storm Applied is a practical guide to using Apache Storm for the real-world tasks associated with processing and analyzing real-time data streams. This immediately useful book starts by building a solid foundation of Storm essentials so that you learn how to think about designing Storm solutions the right way from day one. But it quickly dives into real-world case studies that will bring the novice up to speed with productionizing Storm. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. Summary Storm Applied is a practical guide to using Apache Storm for the real-world tasks associated with processing and analyzing real-time data streams. This immediately useful book starts by building a solid foundation of Storm essentials so that you learn how to think about designing Storm solutions the right way from day one. But it quickly dives into real-world case studies that will bring the novice up to speed with productionizing Storm. About the Technology It's hard to make sense out of data when it's coming at you fast. Like Hadoop, Storm processes large amounts of data but it does it reliably and in real time, guaranteeing that every message will be processed. Storm allows you to scale with your data as it grows, making it an excellent platform to solve your big data problems. About the Book Storm Applied is an example-driven guide to

processing and analyzing real-time data streams. This immediately useful book starts by teaching you how to design Storm solutions the right way. Then, it quickly dives into real-world case studies that show you how to scale a high-throughput stream processor, ensure smooth operation within a production cluster, and more. Along the way, you'll learn to use Trident for stateful stream processing, along with other tools from the Storm ecosystem. This book moves through the basics quickly. While prior experience with Storm is not assumed, some experience with big data and real-time systems is helpful. What's Inside Mapping real problems to Storm components Performance tuning and scaling Practical troubleshooting and debugging Exactly-once processing with Trident About the Authors Sean Allen, Matthew Jankowski, and Peter Pathirana lead the development team for a high-volume, search-intensive commercial web application at TheLadders. Table of Contents Introducing Storm Core Storm concepts Topology design Creating robust topologies Moving from local to remote topologies Tuning in Storm Resource contention Storm internals Trident Java professionals long for the productivity of a framework like Ruby on Rails provides without having to leave the Java platform. The new open source lightweight Grails Framework provides the missing link by using the best aspects of the Java-based Groovy scripting language as well as the Java platform itself.

This Rails-like framework gives dynamic Java a boost; Java developers now have a viable Java-based solution instead of the non-Java-based Ruby on Rails, which can create more problems than it solves. Learn all about this in *The Definitive Guide to Grails*, written by the Grails project founder and lead. Grails is a fast-emerging area of much interest.

**Summary** A fully revised edition that covers the new features available in Clojure 1.6. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. **About the Technology** Clojure is a modern Lisp for the JVM. It has the strengths you expect: first-class functions, macros, and Lisp's clean programming style. It supports functional programming, making it ideal for concurrent programming and for creating domain-specific languages. Clojure lets you solve harder problems, make faster changes, and end up with a smaller code base. It's no wonder that there are so many Clojure success stories. **About the Book** *Clojure in Action, Second Edition* is an expanded and improved version that's been updated to cover the new features of Clojure 1.6. The book gives you a rapid introduction to the Clojure language, moving from abstract theory to practical examples. You'll start by learning how to use Clojure as a general-purpose language. Next, you'll explore Clojure's efficient concurrency model, based on the database concept of Software Transactional Memory (STM). You'll gain a new level of productivity through Clojure DSLs that can run on the JVM. Along the way, you'll learn countless tips, tricks, and techniques for

writing smaller, safer, and faster code. What's Inside Functional programming basics Metaprogramming with Clojure's macros Interoperating with Java Covers Clojure 1.6 About the Reader Assumes readers are familiar with a programming language like C, Java, Ruby, or Python. Table of Contents Introducing Clojure Clojure elements: Data structures and functions Building blocks of Clojure Multimethod polymorphism Exploring Clojure and Java interop State and the concurrent world Evolving Clojure through macros More on functional programming Protocols, records, and types Test-driven development and more More macros and DSL

Summary Linked Data presents the Linked Data model in plain, jargon-free language to Web developers. Avoiding the overly academic terminology of the Semantic Web, this new book presents practical techniques, using everyday tools like JavaScript and Python. About this Book The current Web is mostly a collection of linked documents useful for human consumption. The evolving Web includes data collections that may be identified and linked so that they can be consumed by automated processes. The W3C approach to this is Linked Data and it is already used by Google, Facebook, IBM, Oracle, and government agencies worldwide. Linked Data presents practical techniques for using Linked Data on the Web via familiar tools like JavaScript and Python. You'll work step-by-step through examples of increasing complexity as you explore foundational concepts such as HTTP URIs, the Resource Description Framework (RDF), and the SPARQL query language. Then you'll use various Linked

## Access Free Sample Chapter 2 Manning Publications Co

Data document formats to create powerful Web applications and mashups. Written to be immediately useful to Web developers, this book requires no previous exposure to Linked Data or Semantic Web technologies. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. What's Inside Finding and consuming Linked Data Using Linked Data in your applications Building Linked Data applications using standard Web techniques About the Authors David Wood is co-chair of the W3C's RDF Working Group. Marsha Zaidman served as CS chair at University of Mary Washington. Luke Ruth is a Linked Data developer on the Callimachus Project. Michael Hausenblas led the Linked Data Research Centre. Table of Contents PART 1 THE LINKED DATA WEB Introducing Linked Data RDF: the data model for Linked Consuming Linked Data PART 2 TAMING LINKED DATA Creating Linked Data with SPARQL—querying the Linked PART 3 LINKED DATA IN THE WILD Enhancing results from search RDF database fundamentals Datasets PART 4 PULLING IT ALL TOGETHER Callimachus: a Linked Data Publishing Linked Data—a recap The evolving Web

JBoss RichFaces is a rich JavaServer Faces (JSF) component library that helps developers quickly develop next-generation web applications. Practical RichFaces describes how to best take advantage of RichFaces, the integration of the Ajax4jsf and RichFaces libraries, to create a flexible and powerful programs. Assuming some JSF background, it shows you how you can radically reduce programming time and effort to

create rich Ajax-based applications.

Practical Machine Learning for Data Analysis Using Python is a problem solver's guide for creating real-world intelligent systems. It provides a comprehensive approach with concepts, practices, hands-on examples, and sample code. The book teaches readers the vital skills required to understand and solve different problems with machine learning. It teaches machine learning techniques necessary to become a successful practitioner, through the presentation of real-world case studies in Python machine learning ecosystems. The book also focuses on building a foundation of machine learning knowledge to solve different real-world case studies across various fields, including biomedical signal analysis, healthcare, security, economics, and finance. Moreover, it covers a wide range of machine learning models, including regression, classification, and forecasting. The goal of the book is to help a broad range of readers, including IT professionals, analysts, developers, data scientists, engineers, and graduate students, to solve their own real-world problems. Offers a comprehensive overview of the application of machine learning tools in data analysis across a wide range of subject areas Teaches readers how to apply machine learning techniques to biomedical signals, financial data, and healthcare data Explores important classification and regression algorithms as well as other machine learning techniques Explains how to use Python to handle data extraction, manipulation, and exploration techniques, as well as how to visualize data spread across multiple dimensions and extract useful

features

Spring Security in Action shows you how to prevent cross-site scripting and request forgery attacks before they do damage. You'll start with the basics, simulating password upgrades and adding multiple types of authorization. As your skills grow, you'll adapt Spring Security to new architectures and create advanced OAuth2 configurations. By the time you're done, you'll have a customized Spring Security configuration that protects against threats both common and extraordinary. Summary While creating secure applications is critically important, it can also be tedious and time-consuming to stitch together the required collection of tools. For Java developers, the powerful Spring Security framework makes it easy for you to bake security into your software from the very beginning. Filled with code samples and practical examples, Spring Security in Action teaches you how to secure your apps from the most common threats, ranging from injection attacks to lackluster monitoring. In it, you'll learn how to manage system users, configure secure endpoints, and use OAuth2 and OpenID Connect for authentication and authorization. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the technology Security is non-negotiable. You rely on Spring applications to transmit data, verify credentials, and prevent attacks. Adopting "secure by design" principles will protect your network from data theft and unauthorized intrusions. About the book Spring Security in Action shows you how to prevent cross-site scripting and request forgery

attacks before they do damage. You'll start with the basics, simulating password upgrades and adding multiple types of authorization. As your skills grow, you'll adapt Spring Security to new architectures and create advanced OAuth2 configurations. By the time you're done, you'll have a customized Spring Security configuration that protects against threats both common and extraordinary. What's inside

Encoding passwords and authenticating users  
Securing endpoints  
Automating security testing  
Setting up a standalone authorization server  
About the reader  
For experienced Java and Spring developers.  
About the author  
Laurentiu Spilca is a dedicated development lead and trainer at Endava, with over ten years of Java experience.

Table of Contents

PART 1 - FIRST STEPS  
1 Security Today  
2 Hello Spring Security

PART 2 - IMPLEMENTATION  
3 Managing users  
4 Dealing with passwords  
5 Implementing authentication  
6 Hands-on: A small secured web application  
7 Configuring authorization: Restricting access  
8 Configuring authorization: Applying restrictions  
9 Implementing filters  
10 Applying CSRF protection and CORS  
11 Hands-on: A separation of responsibilities  
12 How does OAuth 2 work?  
13 OAuth 2: Implementing the authorization server  
14 OAuth 2: Implementing the resource server  
15 OAuth 2: Using JWT and cryptographic signatures  
16 Global method security: Pre- and postauthorizations  
17 Global method security: Pre- and postfiltering  
18 Hands-on: An OAuth 2 application  
19 Spring Security for reactive apps  
20 Spring Security testing

There may be no better way to learn how to program than by dissecting real,

## Access Free Sample Chapter 2 Manning Publications Co

representative examples written in your language of choice. Ruby by Example analyzes a series of Ruby scripts, examining how the code works, explaining the concepts it illustrates, and showing how to modify it to suit your needs. Baird's examples demonstrate key features of the language (such as inheritance, encapsulation, higher-order functions, and recursion), while simultaneously solving difficult problems (such as validating XML, creating a bilingual program, and creating command-line interfaces). Each chapter builds upon the previous, and each key concept is highlighted in the margin to make it easier for you to navigate the book. You'll learn how to: –Use the interactive Ruby shell (irb) to learn key features of the language –Extend Ruby using RubyGems, the Ruby package manager –Create numerical utilities, as well as utilities that process and analyze HTML/XML –Implement purely functional and metaprogramming techniques to save time and effort –Optimize, profile, and test your code to make sure that it not only does its job, but does it well –Create web applications using Rails Ruby is the fastest growing programming language today, and for good reason: its elegant syntax and readable code make for prolific and happy programmers. But it can be difficult to understand and implement without a little help. Ruby by Example shows you how to take advantage of Ruby as you explore Ruby's fundamental concepts in action.

Summary Aurelia in Action teaches you how to build fantastic single-page applications with the Aurelia framework. You'll learn about modern design practices and a modular

architecture based on web components, perfect for hybrid web + mobile apps. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Try Aurelia, and you may not go back to your old web framework. Flexible and efficient, Aurelia enforces modern design practices and a modular architecture based on web components. It's perfect for hybrid web + mobile apps, with hot features like dynamic routes, pluggable pipelines, and APIs for nearly every flavor of JavaScript. About the Book Aurelia in Action teaches you how to build extraordinary web applications using the Aurelia framework. You'll immediately take advantage of key elements like web components and decorators when you start to explore the book's running example: a virtual bookshelf. As the app unfolds, you'll dig into templating and data binding the Aurelia way. To complete the project, you'll take on routing and HTTP, along with tuning, securing, and deploying your finished product. What's Inside Templating and data-binding Communication between components Server-side and SPA design techniques View composition About the Reader Written for developers comfortable with JavaScript and MVC-style web development. About the Author Sean Hunter is a web developer with nearly 10 years of experience. He's extremely passionate about all things Aurelia and has been working with the framework in production since the early beta days. Sean got a taste for teaching developers how to get started with Aurelia while visiting user groups across the UK, and he's been excited to expand on this teaching effort with this book. These

days, Sean is working in a variety of web-development technologies with companies across Australia, and he blogs at <https://sean-hunter.io>. Table of Contents PART 1 - INTRODUCTION TO AURELIA Introducing Aurelia Building your first Aurelia application PART 2 - EXPLORING AURELIA View resources, custom elements, and custom attribute Aurelia templating and data bindin Value converters and binding behaviors Intercomponent communication Working with forms Working with HTTP Routing Authentication Dynamic composition Web Components and Aurelia Extending Aurelia Animation PART 3 - AURELIA IN THE REAL WORLD Testing Deploying Aurelia applications

Summary Elm is more than just a cutting-edge programming language, it's a chance to upgrade the way you think about building web applications. Once you get comfortable with Elm's refreshingly different approach to application development, you'll be working with a clean syntax, dependable libraries, and a delightful compiler that essentially eliminates runtime exceptions. Elm compiles to JavaScript, so your code runs in any browser, and Elm's best-in-class rendering speed will knock your socks off. Let's get started! Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the technology Simply put, the Elm programming language transforms the way you think about frontend web development. Elm's legendary

compiler is an incredible assistant, giving you the precise and user-friendly support you need to work efficiently. Elm applications have small bundle sizes that run faster than JavaScript frameworks and are famously easy to maintain as they grow. The catch? Elm isn't JavaScript, so you'll have some new skills to learn. About the book Elm in Action teaches you the Elm language along with a new approach to coding frontend applications. Chapter by chapter, you'll create a full-featured photo-browsing app, learning as you go about Elm's modular architecture, Elm testing, and how to work seamlessly with your favorite JavaScript libraries. You'll especially appreciate author and Elm core team member Richard Feldman's unique insights, based on his thousands of hours writing production code in Elm. When you're done, you'll have a toolbox of new development skills and a stunning web app for your portfolio. What's inside Scalable design for production web applications Single-page applications in Elm Data modeling in Elm Accessing JavaScript from Elm About the reader For web developers with no prior experience in Elm or functional programming. About the author Richard Feldman is a software engineer at NoRedInk and a well-known member of the Elm community. Table of Contents PART 1 - GETTING STARTED 1. Welcome to Elm 2. Your first Elm application 3. Compiler as assistant PART 2 - PRODUCTION-GRADE ELM 4. Talking to servers 5. Talking

to JavaScript 6. Testing PART 3 - BUILDING BIGGER 7. Data modeling 8. Single-page applications

\* This will be the first book to show how to implement a test-driven development process in detail as it applies to real world J2EE applications. \* Combines the tools and methodologies of test-driven development with real world use cases, unlikely most titles which cover one or the other. \* Looks at the complete process including test coverage strategies, test organization, incorporating TDD into new and existing projects as well as how to automate it all. \* This book is not version specific.

Hibernate has clearly arrived. Are you ready to benefit from its simple way of working with relational databases as Java objects? This PDF updates the introductory material from the award-winning Hibernate: A Developer's Notebook to teach you how to jump right in and get productive with the current release of Hibernate. You'll be walked through the ins and outs of setting up Hibernate and some related tools that make it easier to use--and that may give you new ideas about how to store information in your Java programs. In short, this PDF gives you exactly the information you need to start using Hibernate today.

Design, develop, and deploy human-like AI solutions that chat with your customers, solve their problems, and streamline your support services. In

Conversational AI, you will learn how to: Pick the right AI assistant type and channel for your needs Write dialog with intentional tone and specificity Train your AI's classifier from the ground up Create question-and-direct-response AI assistants Design and optimize a process flow for web and voice Test your assistant's accuracy and plan out improvements Conversational AI: Chatbots that work teaches you to create the kind of AI-enabled assistants that are revolutionizing the customer service industry. You'll learn to build effective conversational AI that can automate common inquiries and easily address your customers' most common problems. This engaging and entertaining book delivers the essential technical and creative skills for designing successful AI solutions, from coding process flows and training machine learning, to improving your written dialog. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the technology Create AI-driven chatbots and other intelligent agents that humans actually enjoy talking to! Adding intelligence to automated response systems saves time and money for you and your customers. Conversational AI systems excel at routine tasks such as answering common questions, classifying issues, and routing customers to the appropriate human staff. This book will show you how to build effective, production-ready AI assistants. About the book Conversational AI is a

guide to creating AI-driven voice and text agents for customer support and other conversational tasks. This practical and entertaining book combines design theory with techniques for building and training AI systems. In it, you'll learn how to find training data, assess performance, and write dialog that sounds human. You'll go from building simple chatbots to designing the voice assistant for a complete call center. What's inside Pick the right AI for your needs Train your AI classifier Create question-and-direct-response assistants Design and optimize a process flow About the reader For software developers. Examples use Watson Assistant and Python. About the author Andrew R. Freed is a Master Inventor and Senior Technical Staff Member at IBM. He has worked in AI solutions since 2012. Table of Contents PART 1 FOUNDATIONS 1 Introduction to conversational AI 2 Building your first conversational AI PART 2 DESIGNING FOR SUCCESS 3 Designing effective processes 4 Designing effective dialogue 5 Building a successful AI assistant PART 3 TRAINING AND TESTING 6 Training your assistant 7 How accurate is your assistant? 8 Testing your dialogue flows PART 4 MAINTENANCE 9 Deployment and management 10 Improving your assistant PART 5 ADVANCED/OPTIONAL TOPICS 11 Building your own classifier 12 Additional training for voice assistants Summary OpenShift in Action is a full reference to Red Hat OpenShift that breaks

down this robust container platform so you can use it day-to-day. Combining Docker and Kubernetes, OpenShift is a powerful platform for cluster management, scaling, and upgrading your enterprise apps. It doesn't matter why you use OpenShift—by the end of this book you'll be able to handle every aspect of it, inside and out! Foreword by Jim Whitehurst, Red Hat. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Containers let you package everything into one neat place, and with Red Hat OpenShift you can build, deploy, and run those packages all in one place! Combining Docker and Kubernetes, OpenShift is a powerful platform for cluster management, scaling, and upgrading your enterprise apps. About the Book OpenShift in Action is a full reference to Red Hat OpenShift that breaks down this robust container platform so you can use it day-to-day. Starting with how to deploy and run your first application, you'll go deep into OpenShift. You'll discover crystal-clear explanations of namespaces, cgroups, and SELinux, learn to prepare a cluster, and even tackle advanced details like software-defined networks and security, with real-world examples you can take to your own work. It doesn't matter why you use OpenShift—by the end of this book you'll be able to handle every aspect of it, inside and out! What's Inside Written by lead OpenShift architects Rock-solid fundamentals of Docker

and Kubernetes Keep mission-critical applications up and running Manage persistent storage About the Reader For DevOps engineers and administrators working in a Linux-based distributed environment. About the Authors Jamie Duncan is a cloud solutions architect for Red Hat, focusing on large-scale OpenShift deployments. John Osborne is a principal OpenShift architect for Red Hat. Table of Contents PART 1 - FUNDAMENTALS Getting to know OpenShift Getting started Containers are Linux PART 2 - CLOUD-NATIVE APPLICATIONS Working with services Autoscaling with metrics Continuous integration and continuous deployment PART 3 - STATEFUL APPLICATIONS Creating and managing persistent storage Stateful applications PART 4 - OPERATIONS AND SECURITY Authentication and resource access Networking Security Provides readers with the methods, algorithms, and means to perform text mining tasks This book is devoted to the fundamentals of text mining using Perl, an open-source programming tool that is freely available via the Internet ([www.perl.org](http://www.perl.org)). It covers mining ideas from several perspectives--statistics, data mining, linguistics, and information retrieval--and provides readers with the means to successfully complete text mining tasks on their own. The book begins with an introduction to regular expressions, a text pattern methodology, and quantitative text summaries, all of which are fundamental tools of analyzing text. Then, it builds

upon this foundation to explore: Probability and texts, including the bag-of-words model Information retrieval techniques such as the TF-IDF similarity measure Concordance lines and corpus linguistics Multivariate techniques such as correlation, principal components analysis, and clustering Perl modules, German, and permutation tests Each chapter is devoted to a single key topic, and the author carefully and thoughtfully introduces mathematical concepts as they arise, allowing readers to learn as they go without having to refer to additional books. The inclusion of numerous exercises and worked-out examples further complements the book's student-friendly format. Practical Text Mining with Perl is ideal as a textbook for undergraduate and graduate courses in text mining and as a reference for a variety of professionals who are interested in extracting information from text documents.

Defamation: Comparative Law and Practice offers a timely and original investigation into defamation law and litigation practice in England, Australia and the United States, combining close legal analysis and extensive empirical research to examine central aspects of defamation law. This groundbreaking contribution to legal knowledge will be useful to researchers, academics, students and practitioners working in media and communications law. It will enable lawyers outside the US to make more informed use of US law and

commentary and it sets out, in an accessible manner, the intricacies of English and Australian defamation law and practice for US legal readers.

LLINQ, Language INtegrated Query, is a new extension to the Visual Basic and C# programming languages designed to simplify data queries and database interaction. It addresses O/R mapping issues by making query operations like SQL statements part of the programming language. It also offers built-in support for querying in-memory collections like arrays or lists, XML, DataSets, and relational databases. LINQ in Action is a fast-paced, comprehensive tutorial for professional developers. This book explores what can be done with LINQ, shows how it works in an application, and addresses the emerging best practices. It presents the general purpose query facilities offered by LINQ in the upcoming C# 3.0 and VB.NET 9.0 languages. A running example introduces basic LINQ concepts. You'll then learn to query unstructured data using LINQ to XML and relational data with LINQ to SQL. Finally, you'll see how to extend LINQ for custom applications. LINQ in Action will guide you along as you explore this new world of lambda expressions, query operators, and expression trees. As well, you'll explore the new features of C# 3.0, VB.NET 9.0. The book is very practical, anchoring each new idea with running code. Whether you want to use LINQ to query objects, XML documents, or relational databases, you will find all the

information you need to get started But LINQ in Action does not stop at the basic code. This book also shows you how LINQ can be used for advanced processing of data, including coverage of LINQ's extensibility, which allows querying more data sources than those supported by default. All code samples are built on a concrete business case. The running example, LinqBooks, is a personal book cataloging system that shows you how to create LINQ applications with Visual Studio 2008. 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.

OpenShift in Action Simon and Schuster

Summary Solr in Action is a comprehensive guide to implementing scalable search using Apache Solr. This clearly written book walks you through well-documented examples ranging from basic keyword searching to scaling a system for billions of documents and queries. It will give you a deep understanding of how to implement core Solr capabilities. About the Book Whether you're handling big (or small) data, managing documents, or building a website, it is important to be able to quickly search through your content and discover meaning in it.

Apache Solr is your tool: a ready-to-deploy, Lucene-based, open source, full-text search engine. Solr can scale across many servers to enable real-time queries and data analytics across billions of documents. Solr in Action teaches you to

implement scalable search using Apache Solr. This easy-to-read guide balances conceptual discussions with practical examples to show you how to implement all of Solr's core capabilities. You'll master topics like text analysis, faceted search, hit highlighting, result grouping, query suggestions, multilingual search, advanced geospatial and data operations, and relevancy tuning. This book assumes basic knowledge of Java and standard database technology. No prior knowledge of Solr or Lucene is required. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. What's Inside

- How to scale Solr for big data
- Rich real-world examples
- Solr as a NoSQL data store
- Advanced multilingual, data, and relevancy tricks
- Coverage of versions through Solr 4.7

About the Authors  
Trey Grainger is a director of engineering at CareerBuilder. Timothy Potter is a senior member of the engineering team at LucidWorks. The authors work on the scalability and reliability of Solr, as well as on recommendation engine and big data analytics technologies.

Table of Contents

- PART 1 MEET SOLR
  - Introduction to Solr
  - Getting to know Solr
  - Key Solr concepts
  - Configuring Solr
  - Indexing
  - Text analysis
- PART 2 CORE SOLR CAPABILITIES
  - Performing queries and handling results
  - Faceted search
  - Hit highlighting
  - Query suggestions
  - Result grouping/field collapsing
  - Taking Solr to production
- PART 3 TAKING SOLR TO THE NEXT LEVEL
  - SolrCloud
  - Multilingual

search Complex query operations Mastering relevancy

Summary RabbitMQ in Depth is a practical guide to building and maintaining message-based applications. This book provides detailed coverage of RabbitMQ with an emphasis on why it works the way it does. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology At the heart of most modern distributed applications is a queue that buffers, prioritizes, and routes message traffic. RabbitMQ is a high-performance message broker based on the Advanced Message Queueing Protocol. It's battle tested, ultrafast, and powerful enough to handle anything you can throw at it. It requires a few simple setup steps, and you can instantly start using it to manage low-level service communication, application integration, and distributed system message routing. About the Book RabbitMQ in Depth is a practical guide to building and maintaining message-based applications. This book provides detailed coverage of RabbitMQ with an emphasis on why it works the way it does. You'll find examples and detailed explanations based in real-world systems ranging from simple networked services to complex distributed designs. You'll also find the insights you need to make core architectural choices and develop procedures for effective operational management. What's Inside AMQP, the Advanced Message Queueing Protocol

Communicating via MQTT, Stomp, and HTTP Valuable troubleshooting techniques Database integration About the Reader Written for programmers with a basic understanding of messaging-oriented systems. About the Author Gavin M. Roy is an active, open source evangelist and advocate who has been working with internet and enterprise technologies since the mid-90s. Technical editor James Titcumb is a freelance developer, trainer, speaker, and active contributor to open source projects. Table of Contents PART 1 - RABBITMQ AND APPLICATION ARCHITECTURE Foundational RabbitMQ How to speak Rabbit: the AMQ Protocol An in-depth tour of message properties Performance trade-offs in publishing Don't get messages; consume them Message patterns via exchange routing PART 2 - MANAGING RABBITMQ IN THE DATA CENTER OR THE CLOUD Scaling RabbitMQ with clusters Cross-cluster message distribution PART 3 - INTEGRATIONS AND CUSTOMIZATION Using alternative protocols Database integrations

The first book that deals specifically with visualization of the XML-based Web. It presents the state-of-the-art research in this area and focuses on key topics such as: visualization of semantic and structural information and metadata; exploring and querying XML documents using interactive multimedia interfaces; topic map visualization; visual modelling of XML/RDF ontologies and schemas; rendering

and viewing of XML documents; SVG/X3D: new visualization techniques for the semantic web; and methods used to construct high quality metadata/metadata taxonomies. Most of the techniques and methods discussed here can be applied now, making this book essential reading for SML and Web developers as well as visualization researchers.

Adobe AIR is one of the hottest topics in rich application development. This exciting new technology is still in beta, but it's already being adopted by such web giants as eBay. With AIR, Web developers use their existing skills to build rich applications that flow seamlessly between the internet and the desktop. Adobe AIR in Action introduces AIR to developers familiar with Flex and JavaScript, showing them how to build solid AIR-driven desktop and hybrid applications. Using small examples, the expert authors walk web developers through the new topics they will need to develop AIR applications for the desktop. Readers will learn the essential features of the AIR API with examples and code samples that web professionals can use to get up and running in AIR quickly. The book describes how to create and customize native windows, read and write files and folders on the local file system. Web developers who read this book will be able to take instant advantage of the increased resources available to desktop applications. Sometimes-connected, web-enabled applications are gaining in

popularity, and web developers of all stripes will want to add these skills to their toolbox. 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.

**Summary** The best way to learn microservices development is to build something! **Bootstrapping Microservices with Docker, Kubernetes, and Terraform** guides you from zero through to a complete microservices project, including fast prototyping, development, and deployment. You'll get your feet wet using industry-standard tools as you learn and practice the practical skills you'll use for every microservices application. Following a true bootstrapping approach, you'll begin with a simple, familiar application and build up your knowledge and skills as you create and deploy a real microservices project. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. **About the technology** Taking microservices from proof of concept to production is a complex, multi-step operation relying on tools like Docker, Terraform, and Kubernetes for packaging and deployment. The best way to learn the process is to build a project from the ground up, and that's exactly what you'll do with this book! **About the book** In **Bootstrapping Microservices with Docker, Kubernetes, and Terraform**, author Ashley Davis lays out a comprehensive approach to building microservices. You'll start with a simple

design and work layer-by-layer until you've created your own video streaming application. As you go, you'll learn to configure cloud infrastructure with Terraform, package microservices using Docker, and deploy your finished project to a Kubernetes cluster. What's inside

Developing and testing microservices applications  
Working with cloud providers  
Applying automated testing  
Implementing infrastructure as code and setting up a continuous delivery pipeline  
Monitoring, managing, and troubleshooting

About the reader  
Examples are in JavaScript. No experience with microservices, Kubernetes, Terraform, or Docker required.

About the author  
Ashley Davis is a software developer, entrepreneur, stock trader, and the author of Manning's *Data Wrangling with JavaScript*.

Table of Contents

- 1 Why microservices?
- 2 Creating your first microservice
- 3 Publishing your first microservice
- 4 Data management for microservices
- 5 Communication between microservices
- 6 Creating your production environment
- 7 Getting to continuous delivery
- 8 Automated testing for microservices
- 9 Exploring FlixTube
- 10 Healthy microservices
- 11 Pathways to scalability

Political theorists focus on the nature of justice, liberty, and equality while ignoring the institutions through which these ideals are achieved. Political scientists keep institutions in view but deploy a meager set of value-conceptions in analyzing them. A more political political theory is needed to address this gap, Jeremy Waldron argues.

## Access Free Sample Chapter 2 Manning Publications Co

Advanced Algorithms and Data Structures introduces a collection of algorithms for complex programming challenges in data analysis, machine learning, and graph computing. Summary As a software engineer, you'll encounter countless programming challenges that initially seem confusing, difficult, or even impossible. Don't despair! Many of these "new" problems already have well-established solutions. Advanced Algorithms and Data Structures teaches you powerful approaches to a wide range of tricky coding challenges that you can adapt and apply to your own applications. Providing a balanced blend of classic, advanced, and new algorithms, this practical guide upgrades your programming toolbox with new perspectives and hands-on techniques. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the technology Can you improve the speed and efficiency of your applications without investing in new hardware? Well, yes, you can: Innovations in algorithms and data structures have led to huge advances in application performance. Pick up this book to discover a collection of advanced algorithms that will make you a more effective developer. About the book Advanced Algorithms and Data Structures introduces a collection of algorithms for complex programming challenges in data analysis, machine learning, and graph computing. You'll discover cutting-edge approaches to a variety of tricky scenarios. You'll even learn to design your own data structures for projects that require a custom solution. What's inside Build on basic data structures you already know Profile your algorithms to speed up application Store and query strings efficiently Distribute clustering algorithms with MapReduce Solve logistics problems using graphs and optimization algorithms About the reader For intermediate programmers. About the author Marcello La Rocca is a research scientist and a full-stack engineer. His focus is on optimization algorithms,

## Access Free Sample Chapter 2 Manning Publications Co

genetic algorithms, machine learning, and quantum computing. Table of Contents 1  
Introducing data structures PART 1 IMPROVING OVER BASIC DATA STRUCTURES 2  
Improving priority queues: d-way heaps 3 Treaps: Using randomization to balance binary  
search trees 4 Bloom filters: Reducing the memory for tracking content 5 Disjoint sets: Sub-  
linear time processing 6 Trie, radix trie: Efficient string search 7 Use case: LRU cache PART 2  
MULTIDEMENSIONAL QUERIES 8 Nearest neighbors search 9 K-d trees: Multidimensional  
data indexing 10 Similarity Search Trees: Approximate nearest neighbors search for image  
retrieval 11 Applications of nearest neighbor search 12 Clustering 13 Parallel clustering:  
MapReduce and canopy clustering PART 3 PLANAR GRAPHS AND MINIMUM CROSSING  
NUMBER 14 An introduction to graphs: Finding paths of minimum distance 15 Graph  
embeddings and planarity: Drawing graphs with minimal edge intersections 16 Gradient  
descent: Optimization problems (not just) on graphs 17 Simulated annealing: Optimization  
beyond local minima 18 Genetic algorithms: Biologically inspired, fast-converging optimization  
The Programmer's Brain unlocks the way we think about code. It offers scientifically sound  
techniques that can radically improve the way you master new technology, comprehend code,  
and memorize syntax. You'll learn how to benefit from productive struggle and turn confusion  
into a learning tool. Along the way, you'll discover how to create study resources as you  
become an expert at teaching yourself and bringing new colleagues up to speed.  
All films with a predominantly or entirely African American cast or that were about African  
Americans are detailed here. Each entry includes cast and credits, year of release, studio,  
distributor, type of film (feature, short or documentary) and other production details. In most  
cases, a brief synopsis of the film or contemporary reviews of it follow. In the appendices, film

credits for over 1,850 actors and actresses are provided, along with a listing of film companies. AI as a Service is a practical handbook to building and implementing serverless AI applications, without bogging you down with a lot of theory. Instead, you'll find easy-to-digest instruction and two complete hands-on serverless AI builds in this must-have guide! Summary Companies everywhere are moving everyday business processes over to the cloud, and AI is increasingly being given the reins in these tasks. As this massive digital transformation continues, the combination of serverless computing and AI promises to become the de facto standard for business-to-consumer platform development—and developers who can design, develop, implement, and maintain these systems will be in high demand! AI as a Service is a practical handbook to building and implementing serverless AI applications, without bogging you down with a lot of theory. Instead, you'll find easy-to-digest instruction and two complete hands-on serverless AI builds in this must-have guide! Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the technology Cloud-based AI services can automate a variety of labor intensive business tasks in areas such as customer service, data analysis, and financial reporting. The secret is taking advantage of pre-built tools like Amazon Rekognition for image analysis or AWS Comprehend for natural language processing. That way, there's no need to build expensive custom software. Artificial Intelligence (AI), a machine's ability to learn and make predictions based on patterns it identifies, is already being leveraged by businesses around the world in areas like targeted product recommendations, financial forecasting and resource planning, customer service chatbots, healthcare diagnostics, data security, and more. With the exciting combination of serverless computing and AI, software developers now have enormous power

## Access Free Sample Chapter 2 Manning Publications Co

to improve their businesses' existing systems and rapidly deploy new AI-enabled platforms. And to get on this fast-moving train, you don't have to invest loads of time and effort in becoming a data scientist or AI expert, thanks to cloud platforms and the readily available off-the-shelf cloud-based AI services! About the book AI as a Service is a fast-paced guide to harnessing the power of cloud-based solutions. You'll learn to build real-world apps—such as chatbots and text-to-speech services—by stitching together cloud components. Work your way from small projects to large data-intensive applications. What's inside - Apply cloud AI services to existing platforms - Design and build scalable data pipelines - Debug and troubleshoot AI services - Start fast with serverless templates About the reader For software developers familiar with cloud basics. About the author Peter Elger and Eóin Shanaghy are founders and CEO/CTO of fourTheorem, a software solutions company providing expertise on architecture, DevOps, and machine learning. Table of Contents PART 1 - FIRST STEPS 1 A tale of two technologies 2 Building a serverless image recognition system, part 1 3 Building a serverless image recognition system, part 2 PART 2 - TOOLS OF THE TRADE 4 Building and securing a web application the serverless way 5 Adding AI interfaces to a web application 6 How to be effective with AI as a Service 7 Applying AI to existing platforms PART 3 - BRINGING IT ALL TOGETHER 8 Gathering data at scale for real-world AI 9 Extracting value from large data sets with AI

This volume provides the first detailed biography Percy Manning (1870-1917), an Oxford antiquary who amassed enormous collections about the history of Oxford and Oxfordshire.

[Copyright: 419060fc5dca8ae10bac3bf0f095574d](https://www.manning.com/books/ai-as-a-service)