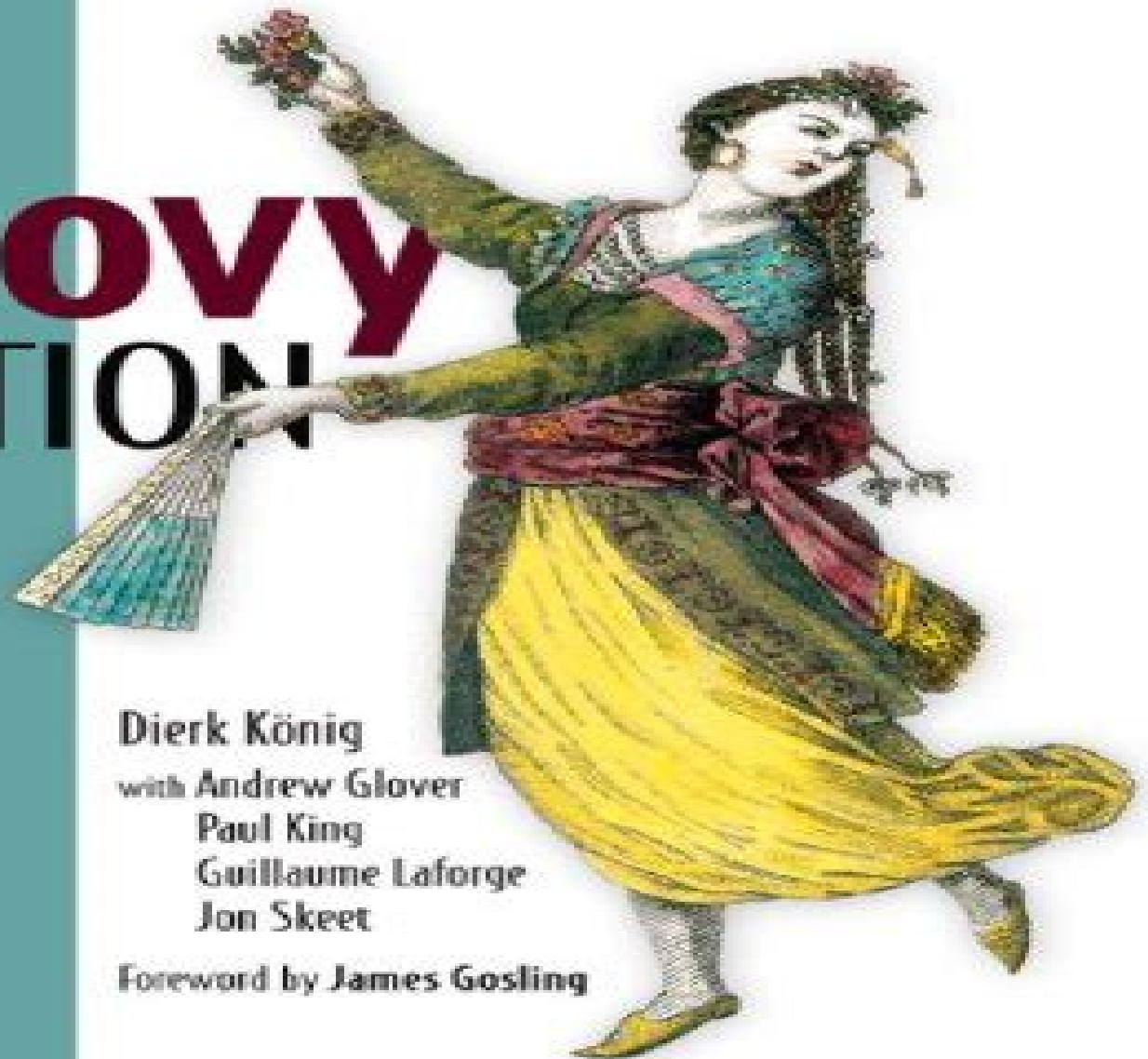# Groovy
IN ACTION

Dierk König

with **Andrew Glover**
Paul King
Guillaume Laforge
Jon Skeet

Foreword by **James Gosling**

/III MANNING

[Groovy In Action Second Edition](#)

Daniel F McAuley

Groovy In Action Second Edition:

Groovy in Action Cédric Champeau,Dierk Koenig,Hamlet D'Arcy,Paul King,2015-06-03 Summary Groovy in Action Second Edition is a thoroughly revised comprehensive guide to Groovy programming It introduces Java developers to the dynamic features that Groovy provides and shows how to apply Groovy to a range of tasks including building new apps integration with existing code and DSL development Covers Groovy 2 4 Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the Technology In the last ten years Groovy has become an integral part of a Java developer s toolbox Its comfortable common sense design seamless integration with Java and rich ecosystem that includes the Grails web framework the Gradle build system and Spock testing platform have created a large Groovy community About the Book Groovy in Action Second Edition is the undisputed definitive reference on the Groovy language Written by core members of the Groovy language team this book presents Groovy like no other can from the inside out With relevant examples careful explanations of Groovy s key concepts and features and insightful coverage of how to use Groovy in production tasks including building new applications integration with existing code and DSL development this is the only book you ll need Updated for Groovy 2 4 Some experience with Java or another programming language is helpful No Groovy experience is assumed What s Inside Comprehensive coverage of Groovy 2 4 including language features libraries and AST transformations Dynamic static and extensible typing Concurrency actors data parallelism and dataflow Applying Groovy Java integration XML SQL testing and domain specific language support Hundreds of reusable examples About the Authors Authors Dierk K nig Paul King Guillaume Laforge Hamlet D Arcy C dric Champeau Erik Pragt and Jon Skeet are intimately involved in the creation and ongoing development of the Groovy language and its ecosystem Table of Contents PART 1 THE GROOVY LANGUAGE Your way to Groovy Overture Groovy basics Simple Groovy datatypes Collective Groovy datatypes Working with closures Groovy control structures Object orientation Groovy style Dynamic programming with Groovy Compile time metaprogramming and AST transformations Groovy as a static language PART 2 AROUND THE GROOVY LIBRARY Working with builders Working with the GDK Database programming with Groovy Working with XML and JSON Interacting with Web Services Integrating Groovy PART 3 APPLIED GROOVY Unit testing with Groovy Concurrent Groovy with GPars Domain specific languages The Groovy ecosystem   **Groovy in Action, Second Edition** Dierk Konig,2015 With relevant examples and careful explanations of Groovy s key concepts and features this comprehensive book provides insightful coverage of how to use Groovy in production tasks including building new applications integration with existing code and DSL development   **Grails in Action** Peter Ledbrook,Glen Smith,2014-06-10 Summary Grails in Action Second Edition is a comprehensive introduction to Grails 2 focused on making you super productive fast In this totally revised new edition you ll master Grails 2 3 core skills as you apply TDD techniques to developing a full scale Twitter clone Along the way you ll learn the latest single page web app UI techniques work with NoSQL backends integrate with enterprise messaging and implement

a complete RESTful API for your services Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the Technology It may be time for you to stop reconfiguring rewriting and recompiling your Java web apps Grails a Groovy powered web framework hides all that busy work so you can concentrate on what your applications do not how they re built In addition to its famously intuitive dev environment and seamless integration with Spring and Hibernate the new Grails 2 3 adds improved REST support better protection against attacks from the web and better dependency resolution About the Book Grails in Action Second Edition is a comprehensive introduction to Grails 2 In this totally revised edition you ll master Grails as you apply TDD techniques to a full scale example a Twitter clone Along the way you ll learn single page web app techniques work with NoSQL back ends integrate with enterprise messaging implement a RESTful API and more No Java or Groovy knowledge is required Some web development and OOP experience is helpful What s Inside Covers Grails 2 3 from the ground up Agile delivery and testing using Spock How to use and manage plugins Tips and tricks from the trenches About the Authors There s no substitute for experience Glen Smith and Peter Ledbrook have been fixtures in the Grails community contributing code blogging and speaking at conferences worldwide since Grails 0 2 Table of Contents PART 1 INTRODUCING GRAILS Grails in a hurry The Groovy essentials PART 2 CORE GRAILS Modeling the domain 63 Creating the initial UI Retrieving the data you need Controlling application flow Services and data binding Developing tasty forms views and layouts PART 3 EVERYDAY GRAILS Building reliable applications Using plugins just add water Protecting your application Exposing your app to other programs Single page web applications and other UI stuff Understanding Spring and transactions PART 4 ADVANCED GRAILS Understanding events messaging and scheduling NoSQL and Grails Beyond compile test run Grails in the cloud BONUS ONLINE CHAPTERS Advanced GORM kung fu Developing plugins **Programming Grails** Burt Beckwith,2013-04-23 Dig deeper into Grails architecture and discover how this application framework works its magic Written by a core developer on the Grails team this practical guide takes you behind the curtain to reveal the inner workings of its 2 0 feature set You ll learn best practices for building and deploying Grails applications including performance security scaling tuning debugging and monitoring Understand how Grails integrates with Groovy Spring Hibernate and other JVM technologies and learn how to create and use plugins to augment your application s functionality Once you know how Grails adds behavior by convention you can solve problems more easily and develop applications more intuitively Write simpler more powerful code with the Groovy language Manage persistence in Grails using Hibernate or a NoSQL datastore Learn how Grails uses Spring s functionality and optional modules Discover how Hibernate handles details for storing and retrieving data Integrate technologies for messaging mail creating web services and other JEE technologies Bypass convention and configure Grails manually Learn a general approach to upgrading applications and plugins Use Grails to develop and deploy IaaS and PaaS applications **Kotlin in Action, Second Edition** Roman Elizarov,Sebastian Aigner,Svetlana Isakova,Dmitry Jemerov,2024-05-21 Expert guidance and amazing examples from

core Kotlin s developers It s everything you need to get up and running fast In Kotlin in Action Second Edition you will learn Kotlin statements and functions and classes and types Functional programming on the JVM The Kotlin standard library and out of the box features Writing clean and idiomatic code Combining Kotlin and Java Improve code reliability with Null safety Domain specific languages Kotlin concurrency Mastering the kotlinx coroutines library Kotlin in Action Second Edition is a complete guide to the Kotlin language written especially for readers familiar with Java or another OO language In it core Kotlin language developers share their unique insights along with practical techniques and hands on examples You ll quickly progress from language basics to building production quality applications that take advantage of Kotlin s unique features This new second edition is fully updated to include the latest innovations and it adds new chapters dedicated to coroutines and concurrency About the technology Coding with Kotlin means less hassle and more productivity This JVM based language offers an expressive syntax a strong intuitive type system and great tooling support plus seamless interoperability with existing Java code libraries and frameworks Kotlin is general purpose safe pragmatic and the premier language of Android development While the language has grown beyond its initial Java centric focus you can still use and integrate with your favorite Java tools and libraries including Spring *CMIS and Apache Chemistry in Action* Jay Brown,Florian Mueller,Jeff Potts,2013-07-25 Summary CMIS and Apache Chemistry in Action is a comprehensive guide to the CMIS standard and related ECM concepts written by the authors of the standard In it you ll tackle hands on examples for building applications on CMIS repositories from both the client and the server sides You ll learn how to create new content centric applications that install and run in any CMIS compliant repository About The Technology Content Management Interoperability Services CMIS is an OASIS standard for accessing content management systems It specifies a vendor and language neutral way to interact with any compliant content repository Apache Chemistry provides complete reference implementations of the CMIS standard with robust APIs for developers writing tools applications and servers About This Book CMIS and Apache Chemistry in Action is a comprehensive guide to the CMIS standard and related ECM concepts In it you ll find clear teaching and instantly useful examples for building content centric client and server side applications that run against any CMIS compliant repository In fact using the CMIS Workbench and the InMemory Repository from Apache Chemistry you ll have running code talking to a real CMIS server by the end of chapter 1 This book requires some familiarity with content management systems and a standard programming language like Java or C No exposure to CMIS or Apache Chemistry is assumed Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications What s Inside The only CMIS book endorsed by OASIS Complete coverage of the CMIS 1 0 and 1 1 specifications Cookbook style tutorials and real world examples About the Authors Florian M ller Jay Brown and Jeff Potts are among the original authors contributors and leaders of Apache Chemistry and the OASIS CMIS specification They continue to shape CMIS implementations at Alfresco IBM and SAP Table of Contents PART 1 UNDERSTANDING CMIS Introducing CMIS Exploring the CMIS domain model Creating

updating and deleting objects with CMIS CMIS metadata types and properties Query PART 2 HANDS ON CMIS CLIENT DEVELOPMENT Meet your new project The Blend The Blend read and query functionality The Blend create update and delete functionality Using other client libraries Building mobile apps with CMIS PART 3 ADVANCED TOPICS CMIS bindings Security and control Performance Building a CMIS server   Java Testing with Spock Konstantinos Kapelonis,2016-03-06 Summary Java Testing with Spock teaches you how to use Spock for a wide range of testing use cases in Java Readers new to Groovy will appreciate the succinct language tutorial that ll give you just enough Groovy to use Spock effectively Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the Technology Spock combines the features of tools like JUnit Mockito and JBehave into a single powerful Java testing library With Spock you use Groovy to write more readable and concise tests Spock enables seamless integration testing and with the intuitive Geb library you can even handle functional testing of web applications About the Book Java Testing with Spock teaches you how to use Spock for a wide range of testing use cases in Java You ll start with a quick overview of Spock and work through writing unit tests using the Groovy language You ll discover best practices for test design as you learn to write mocks implement integration tests use Spock s built in BDD testing tools and do functional web testing using Geb Readers new to Groovy will appreciate the succinct language tutorial in chapter 2 that gives you just enough Groovy to use Spock effectively What s Inside Testing with Spock from the ground up Write mocks without an external library BDD tests your business analyst can read Just enough Groovy to use Spock About the Reader Written for Java developers Knowledge of Groovy and JUnit is helpful but not required About the Author Konstantinos Kapelonis is a software engineer who works with Java daily Table of Contents PART 1 FOUNDATIONS AND BRIEF TOUR OF SPOCK Introducing the Spock testing framework Groovy knowledge for Spock testing A tour of Spock functionality PART 2 STRUCTURING SPOCK TESTS Writing unit tests with Spock Parameterized tests Mocking and stubbing PART 3 SPOCK IN THE ENTERPRISE Integration and functional testing with Spock Spock features for enterprise testing   **Logging in Action** Phil Wilkins,2022-03-29 Make log processing a real asset to your organization with powerful and free open source tools In Logging in Action you will learn how to Deploy Fluentd and Fluent Bit into traditional on premises IoT hybrid cloud and multi cloud environments both small and hyperscaled Configure Fluentd and Fluent Bit to solve common log management problems Use Fluentd within Kubernetes and Docker services Connect a custom log source or destination with Fluentd s extensible plugin framework Logging best practices and common pitfalls Logging in Action is a guide to optimize and organize logging using the CNCF Fluentd and Fluent Bit projects You ll use the powerful log management tool Fluentd to solve common log management and learn how proper log management can improve performance and make management of software and infrastructure solutions easier Through useful examples like sending log driven events to Slack you ll get hands on experience applying structure to your unstructured data Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the

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   Griffon in Action Andres Almiray,Danno Ferrin,2012-06-03 Summary Griffon in Action is a comprehensive tutorial written for Java developers who want a more productive approach to UI development After a quick Groovy tutorial you ll immediately dive into Griffon and start building examples that explore its high productivity approach to Swing development About the Technology You can think of Griffon as Grails for the desktop It is a Groovy driven UI framework for the JVM that wraps and radically simplifies Swing Its declarative style and approachable abstractions are instantly familiar to developers using Grails or JavaFX About the Book Griffon in Action gets you going quickly Griffon s convention over configuration approach requires minimal code to get an app off the ground so you can start seeing results immediately You ll learn how SwingBuilder and other Griffon builders provide a coherent DSL driven development experience Along the way you ll explore best practices for structure architecture and lifecycle of a Java desktop application Written for Java developers no experience with Groovy Grails or Swing is required 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 Griffon from the ground up Full compatibility with Griffon 1 0 Using SwingBuilder and the other builders Practical real world examples Just enough Groovy Table of Contents PART 1 GETTING STARTED Welcome to the Griffon revolution A closer look at Griffon PART 2 ESSENTIAL GRIFFON Models and

binding Creating a view Understanding controllers and services Understanding MVC groups Multithreaded applications Listening to notifications Testing your application Ship it Working with plugins Enhanced looks Griffon in front Grails in the back Productivity tools   Proceedings Mathilde Romberg,2011   *Spring Microservices in Action, Second Edition* John Carnell,Illary Huaylupo Sánchez,2021-06-29 Spring Microservices in Action Second Edition teaches you to build microservice based applications using Java and Spring Summary By dividing large applications into separate self contained units Microservices are a great step toward reducing complexity and increasing flexibility Spring Microservices in Action Second Edition teaches you how to build microservice based applications using Java and the Spring platform This second edition is fully updated for the latest version of Spring with expanded coverage of API routing with Spring Cloud Gateway logging with the ELK stack metrics with Prometheus and Grafana security with the Hashicorp Vault and modern deployment practices with Kubernetes and Istio Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the technology Building and deploying microservices can be easy in Spring Libraries like Spring Boot Spring Cloud and Spring Cloud Gateway reduce the boilerplate code in REST based services They provide an effective toolbox to get your microservices up and running on both public and private clouds About the book Spring Microservices in Action Second Edition teaches you to build microservice based applications using Java and Spring You ll start by creating basic services then move to efficient logging and monitoring Learn to refactor Java applications with Spring s intuitive tooling and master API management with Spring Cloud Gateway You ll even deploy Spring Cloud applications with AWS and Kubernetes What s inside Microservice design principles and best practices Configuration with Spring Cloud Config and Hashicorp Vault Client side resiliency with Resilience4j and Spring Cloud Load Balancer Metrics monitoring with Prometheus and Grafana Distributed tracing with Spring Cloud Sleuth Zipkin and ELK Stack About the reader For experienced Java and Spring developers About the author John Carnell is a senior cloud engineer with 20 years of Java experience Illary Huaylupo S nchez is a software engineer with over 13 years of experience Table of Contents 1 Welcome to the cloud Spring 2 Exploring the microservices world with Spring Cloud 3 Building microservices with Spring Boot 4 Welcome to Docker 5 Controlling your configuration with the Spring Cloud Configuration Server 6 On service discovery 7 When bad things happen Resiliency patterns with Spring Cloud and Resilience4j 8 Service routing with Spring Cloud Gateway 9 Securing your microservices 10 Event driven architecture with Spring Cloud Stream 11 Distributed tracing with Spring Cloud Sleuth and Zipkin 12 Deploying your microservices   *DSLs in Action* Debasish Ghosh,2010-11-30 Your success and sanity are closer at hand when you work at a higher level of abstraction allowing your attention to be on the business problem rather than the details of the programming platform Domain Specific Languages little languages implemented on top of conventional programming languages give you a way to do this because they model the domain of your business problem DSLs in Action introduces the concepts and definitions a developer needs to build high quality domain specific languages It provides a solid foundation to

the usage as well as implementation aspects of a DSL focusing on the necessity of applications speaking the language of the domain After reading this book a programmer will be able to design APIs that make better domain models For experienced developers the book addresses the intricacies of domain language design without the pain of writing parsers by hand The book discusses DSL usage and implementations in the real world based on a suite of JVM languages like Java Ruby Scala and Groovy It contains code snippets that implement real world DSL designs and discusses the pros and cons of each implementation 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 Tested real world examples How to find the right level of abstraction Using language features to build internal DSLs Designing parser combinator based little languages **Gradle Essentials** Kunal Dabir,Abhinandan,2015-12-23 Master the fundamentals of Gradle using real world projects with this quick and easy to read guide About This Book Write beautiful build scripts for various types of projects effortlessly Become more productive by harnessing the power and elegance of the Gradle DSL Learn how to use Gradle quickly and effectively with this step by step guide Who This Book Is For This book is for Java and other JVM based language developers who want to use Gradle or are already using Gradle on their projects No prior knowledge of Gradle is required but some familiarity with build related terminologies and an understanding of the Java language would help What You Will Learn Master the Gradle DSL by identifying the building blocks Learn just enough Groovy for Gradle Set up tests and reports for your projects to make them CI ready Create library stand alone and web projects Craft multi module projects quickly and efficiently Migrate existing projects to a modern Gradle build Extract common build logic into plugins Write builds for languages like Java Groovy and Scala In Detail Gradle is an advanced and modern build automation tool It inherits the best elements of the past generation of build tools but it also differs and innovates to bring terseness elegance simplicity and the flexibility to build Right from installing Gradle and writing your first build file to creating a fully fledged multi module project build this book will guide you through its topics in a step by step fashion You will get your hands dirty with a simple Java project built with Gradle and go on to build web applications that are run with Jetty or Tomcat We take a unique approach towards explaining the DSL using the Gradle API which makes the DSL more accessible and intuitive All in all this book is a concise guide to help you decipher the Gradle build files covering the essential topics that are most useful in real world projects With every chapter you will learn a new topic and be able to readily implement your build files Style and approach This step by step guide focuses on being productive with every chapter When required topics are explained in depth to give you a good foundation of the Gradle fundamentals The book covers most aspects of builds required for conventional JVM based projects and when necessary points you towards the right resources *Gradle in Action* Benjamin Muschko,2014-02-19 Summary Gradle in Action is a comprehensive guide to end to end project automation with Gradle Starting with the basics this practical easy to read book discusses how to build a full fledged real world project Along the way it touches on advanced topics like testing continuous

integration and monitoring code quality You ll also explore tasks like setting up your target environment and deploying your software About the Technology Gradle is a general purpose build automation tool It extends the usage patterns established by its forerunners Ant and Maven and allows builds that are expressive maintainable and easy to understand Using a flexible Groovy based DSL Gradle provides declarative and extendable language elements that let you model your project s needs the way you want About the Book Gradle in Action is a comprehensive guide to end to end project automation with Gradle Starting with the basics this practical easy to read book discusses how to establish an effective build process for a full fledged real world project Along the way it covers advanced topics like testing continuous integration and monitoring code quality You ll also explore tasks like setting up your target environment and deploying your software The book assumes a basic background in Java but no knowledge of Groovy Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications Whats Inside A comprehensive guide to Gradle Practical real world examples Transitioning from Ant and Maven In depth plugin development Continuous delivery with Gradle About the Author Benjamin Muschko is a member of the Gradleware engineering team and the author of several popular Gradle plugins Table of Contents PART 1 INTRODUCING GRADLE Introduction to project automation Next generation builds with Gradle Building a Gradle project by example PART 2 MASTERING THE FUNDAMENTALS Build script essentials Dependency management Multiproject builds Testing with Gradle Extending Gradle Integration and migration PART 3 FROM BUILD TO DEPLOYMENT IDE support and tooling Building polyglot projects Code quality management and monitoring Continuous integration Artifact assembly and publishing Infrastructure provisioning and deployment   *Flex on Java* Bernerd Allmon,Jeremy Anderson,2010-10-14 Unlike many Flex books that presume readers want to develop applications from scratch Flex on Java is for developers in the real world where Flex is one more technology being added to existing systems developed in Java and where integration is the key indicator of success Written for Java developers beginning to use Flex Flex on Java shows how to use Flex alongside existing Java applications and how to integrate Flex using familiar server side technologies such as Spring EJBs JMS and more The authors both Agile development experts focus on Agile and test driven development to enable readers to redesign applications that deliver more value and with zero defects Throughout the book readers will apply these techniques to refactoring a single application into a rich internet application using Flex and the BlazeDS framework 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   **PostGIS in Action, Second Edition** Leo S. Hsu,Regina O. Obe,2015-04-21 Summary PostGIS in Action Second Edition teaches readers of all levels to write spatial queries that solve real world problems It first gives you a background in vector raster and topology based GIS and then quickly moves into analyzing viewing and mapping data This second edition covers PostGIS 2 0 and 2 1 series PostgreSQL 9 1 9 2 and 9 3 features and shows you how to integrate with other GIS tools Foreword by Paul Ramsey Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning

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