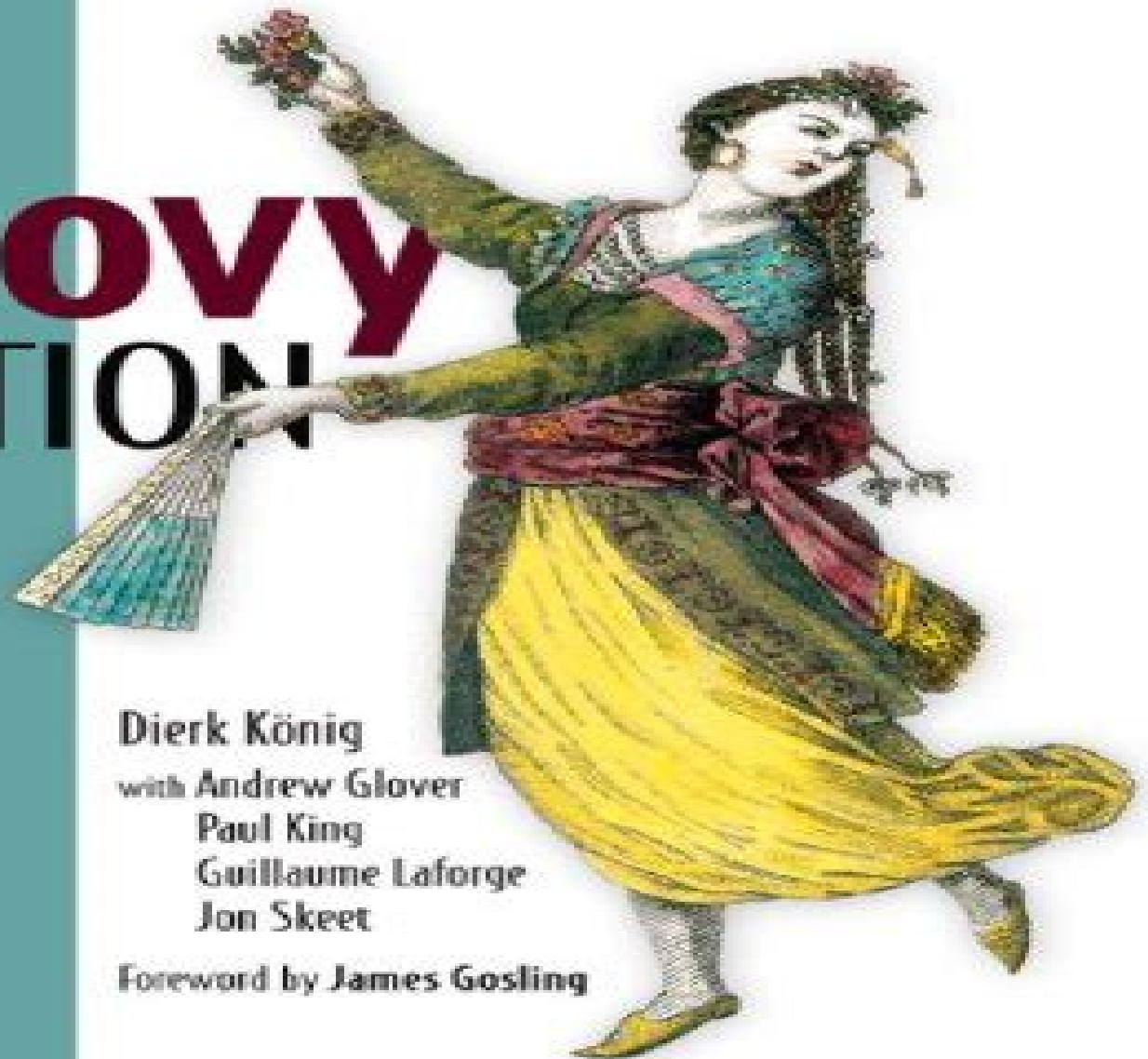


Groovy IN ACTION



Dierk König

with **Andrew Glover**

Paul King

Guillaume Laforge

Jon Skeet

Foreword by **James Gosling**

 **MANNING**

Groovy In Action Second Edition

John Ferguson Smart, Jan Molak



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 Koenig, Paul King, Guillaume Laforge, Hamlet D'Arcy, Cédric Champeau, Erik Pragt, and Jon Skeet are intimately involved in the creation and ongoing development of the Groovy language and its ecosystem.

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Groovy in Action, Second Edition Dierk König, 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 kotlincoroutines 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

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technology Don't fly blind An effective logging system can help you see and correct problems before they cripple your software With the Fluentd log management tool it's a snap to monitor the behavior and health of your software and infrastructure in real time Designed to collect and process log data from multiple sources using the industry standard JSON format Fluentd delivers a truly unified logging layer across all your systems About the book Logging in Action teaches you to record and analyze application and infrastructure data using Fluentd Using clear relevant examples it shows you exactly how to transform raw system data into a unified stream of actionable information You'll discover how logging configuration impacts the way your system functions and set up Fluentd to handle data from legacy IT environments local data centers and massive Kubernetes driven distributed systems You'll even learn how to implement complex log parsing with RegEx and output events to MongoDB and Slack What's inside Capture log events from a wide range of systems and software including Kubernetes and Docker Connect to custom log sources and destinations Employ Fluentd's extensible plugin framework Create a custom plugin for niche problems About the reader For developers architects and operations professionals familiar with the basics of monitoring and logging About the author Phil Wilkins has spent over 30 years in the software industry Has worked for small startups through to international brands Table of Contents PART 1 FROM ZERO TO HELLO WORLD 1 Introduction to Fluentd 2 Concepts architecture and deployment of Fluentd PART 2 FLUENTD IN DEPTH 3 Using Fluentd to capture log events 4 Using Fluentd to output log events 5 Routing log events 6 Filtering and extrapolation PART 3 BEYOND THE BASICS 7 Performance and scaling 8 Driving logs with Docker and Kubernetes 9 Creating custom plugins PART 4 GOOD LOGGING PRACTICES AND FRAMEWORKS TO MAXIMIZE LOG VALUE 10 Logging best practices 11 Logging frameworks

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

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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
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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

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What's 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

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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

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Publications About the Book Processing data tied to location and topology requires specialized know how PostGIS is a free spatial database extender for PostgreSQL every bit as good as proprietary software With it you can easily create location aware queries in just a few lines of SQL code and build the back end for a mapping raster analysis or routing application with minimal effort PostGIS in Action Second Edition teaches you to solve real world geodata problems It first gives you a background in vector raster and topology based GIS and then quickly moves into analyzing viewing and mapping data You ll learn how to optimize queries for maximum speed simplify geometries for greater efficiency and create custom functions for your own applications You ll also learn how to apply your existing GIS knowledge to PostGIS and integrate with other GIS tools Familiarity with relational database and GIS concepts is helpful but not required What s Inside An introduction to spatial databases Geometry geography raster and topology spatial types functions and queries Applying PostGIS to real world problems Extending PostGIS to web and desktop applications Updated for PostGIS 2 x and PostgreSQL 9 x About the Authors Regina Obe and Leo Hsu are database consultants and authors Regina is a member of the PostGIS core development team and the Project Steering Committee Table of Contents What is a spatial database Spatial data types Spatial reference system considerations Working with real data Using PostGIS on the desktop Geometry and geography functions Raster functions PostGIS TIGER geocoder Geometry relationships Proximity analysis Geometry and geography processing Raster processing Building and using topologies Organizing spatial data Query performance tuning Extending PostGIS with pgRouting and procedural languages Using PostGIS in web applications PART 1 INTRODUCTION TO POSTGIS PART 2 PUTTING POSTGIS TO WORK PART 3 USING POSTGIS WITH OTHER TOOLS

Gradle Recipes for Android Ken Kousen,2016-06-07 Android adopted Gradle as the preferred build automation system a few years ago but many Android developers are still unfamiliar with this open source tool This hands on guide provides a collection of Gradle recipes to help you quickly and easily accomplish the most common build tasks for your Android apps You ll learn how to customize project layouts add dependencies and generate many different versions of your app Gradle is based on Groovy yet very little knowledge of the JVM language is required for you to get started Code examples use Android SDK version 23 with emulators from Marshmallow Android 6 or Lollipop Android 5 If you re comfortable with Java and Android you re ready Understand Gradle s generated build files for Android apps Run Gradle from the command line or inside Android Studio Add more Java libraries to your Android app Import and export Eclipse ADT projects Digitally sign a Release APK for the Google Play store Use product flavors to build many versions of the same app Add custom tasks to the Gradle build process Test both your app s Android and non Android components Improve the performance of your Gradle build

The Well-Grounded Java Developer Benjamin Evans,Martijn Verburg,2012-07-09 Summary The Well Grounded Java Developer offers a fresh and practical look at new Java 7 features new JVM languages and the array of supporting technologies you need for the next generation of Java based software About the Book The Well Grounded Java Developer starts with thorough coverage of Java 7 features like try

with resources and NIO 2 You'll then explore a cross section of emerging JVM based languages including Groovy Scala and Clojure You will find clear examples that are practical and that help you dig into dozens of valuable development techniques showcasing modern approaches to the dev process concurrency performance and much more Written for readers familiar with Java No experience with Java 7 or new JVM languages 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 New Java 7 features Tutorials on Groovy Scala and Clojure Discovering multicore processing and concurrency Functional programming with new JVM languages Modern approaches to testing build and CI Table of Contents PART 1 DEVELOPING WITH JAVA 7 Introducing Java 7 New I/O PART 2 VITAL TECHNIQUES Dependency Injection Modern concurrency Class files and bytecode Understanding performance tuning PART 3 POLYGLOT PROGRAMMING ON THE JVM Alternative JVM languages Groovy Java's dynamic friend Scala powerful and concise Clojure safer programming PART 4 CRAFTING THE POLYGLOT PROJECT Test driven development Build and continuous integration Rapid web development Staying well grounded 2016-12-19 Recipe ADT *BDD in Action, Second Edition* John Ferguson Smart, Jan Molak, 2023-05-02 In BDD in Action Second Edition you'll learn to seamlessly integrate BDD into your existing development process This thoroughly revised new edition now shows how to integrate BDD with DevOps and large scale Agile systems Practical examples introduce cross functional team communication skills leading a successful requirements analysis and how to set up automated acceptance criteria

Embracing the Melody of Expression: An Emotional Symphony within **Groovy In Action Second Edition**

In some sort of consumed by monitors and the ceaseless chatter of quick interaction, the melodic splendor and psychological symphony produced by the prepared term often fade into the back ground, eclipsed by the constant noise and disruptions that permeate our lives. However, located within the pages of **Groovy In Action Second Edition** a stunning fictional treasure overflowing with organic thoughts, lies an immersive symphony waiting to be embraced. Constructed by a masterful musician of language, this captivating masterpiece conducts viewers on a psychological journey, well unraveling the concealed tunes and profound affect resonating within each carefully crafted phrase. Within the depths with this emotional review, we shall examine the book is central harmonies, analyze its enthralling publishing fashion, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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Groovy In Action Second Edition Introduction

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