Groovy for Domain-specific Languages

Second Edition

Extend and enhance your Java applications with domain-specific scripting in Groovy

Fergal Dearle

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Yan Bai

Groovy For Domain Specific Languages Dearle Fergal:

Groovy for Domain-specific Languages Fergal Dearle,2015-09-28 Extend and enhance your Java applications with domain specific scripting in Groovy About This Book Build domain specific mini languages in Groovy that integrate seamlessly with your Java apps with this hands on guide Increase stakeholder participation in the development process with domain specific scripting in Groovy Get up to speed with the newest features in Groovy using this second edition and integrate Groovy based DSLs into your existing Java applications Who This Book Is For This book is for Java software developers who have an interest in building domain scripting into their Java applications No knowledge of Groovy is required although it will be helpful This book does not teach Groovy but quickly introduces the basic ideas of Groovy An experienced Java developer should have no problems with these and move quickly on to the more involved aspects of creating DSLs with Groovy No experience of creating a DSL is required What You Will Learn Familiarize yourself with Groovy scripting and work with Groovy closures Use the meta programming features in Groovy to build mini languages Employ Groovy mark up and builders to simplify application development Familiarize yourself with Groovy mark up and build your own Groovy builders Build effective DSLs with operator overloading command chains builders and a host of other Groovy language features Integrate Groovy with your Java and JVM based applications In Detail The times when developing on the JVM meant you were a Java programmer have long passed The JVM is now firmly established as a polyglot development environment with many projects opting for alternative development languages to Java such as Groovy Scala Clojure and JRuby In this pantheon of development languages Groovy stands out for its excellent DSL enabling features which allows it to be manipulated to produce mini languages that are tailored to a project s needs A comprehensive tutorial on designing and developing mini Groovy based Domain Specific Languages this book will guide you through the development of several mini DSLs that will help you gain all the skills needed to develop your own Groovy based DSLs with confidence and ease Starting with the bare basics this book will focus on how Groovy can be used to construct domain specific mini languages and will go through the more complex meta programming features of Groovy including using the Abstract Syntax Tree AST Practical examples are used throughout this book to de mystify these seemingly complex language features and to show how they can be used to create simple and elegant DSLs Packed with examples including several fully worked DSLs this book will serve as a springboard for developing your own DSLs Style and approach This book is a hands on guide that will walk you through examples for building DSLs with Groovy rather than just talking about metaprogramming with Groovy The examples in this book have been designed to help you gain a good working knowledge of the techniques involved and apply these to producing your own Groovy based DSLs *Groovy for Domain-Specific Languages - Second Edition* Fergal Dearle,2015 Extend and enhance your Java applications with domain specific scripting in GroovyAbout This Book Build domain specific mini languages in Groovy that integrate seamlessly with your Java apps with this hands on guide Increase stakeholder

participation in the development process with domain specific scripting in Groovy Get up to speed with the newest features in Groovy using this second edition and integrate Groovy based DSLs into your existing Java applications Who This Book Is ForThis book is for Java software developers who have an interest in building domain scripting into their Java applications No knowledge of Groovy is required although it will be helpful This book does not teach Groovy but quickly introduces the basic ideas of Groovy An experienced Java developer should have no problems with these and move quickly on to the more involved aspects of creating DSLs with Groovy No experience of creating a DSL is required What You Will Learn Familiarize yourself with Groovy scripting and work with Groovy closures Use the meta programming features in Groovy to build mini languages Employ Groovy mark up and builders to simplify application development Familiarize yourself with Groovy mark up and build your own Groovy builders Build effective DSLs with operator overloading command chains builders and a host of other Groovy language features Integrate Groovy with your Java and JVM based applicationsIn DetailThe times when developing on the JVM meant you were a Java programmer have long passed The JVM is now firmly established as a polyglot development environment with many projects opting for alternative development languages to Java such as Groovy Scala Clojure and JRuby In this pantheon of development languages Groovy stands out for its excellent DSL enabling features which allows it to be manipulated to produce mini languages that are tailored to a project s needs A comprehensive tutorial on designing and developing mini Groovy based Domain Specific Languages this book will guide you through the development of several mini DSLs that will help you gain all the skills needed to develop your own Groovy based DSLs with confidence and ease Starting with the bare basics this book will focus on how Groovy can be used to construct domain specific mini languages and will go through the more complex meta programming features of Groovy including using the Abstract Syntax Tree AST Practical examples are used throughout this book to de mystify these seemingly complex language features and to show how they can be used to create simple and elegant DSLs Packed with examples including several fully worked DSLs this book will serve as a springboard for developing your own DSLs Style and approachThis book is a hands on guide that will walk you through examples for building DSLs with Groovy rather than just talking about metaprogramming with Groovy The examples in this book have been designed to help you gain a good working knowledge of the techniques involved and apply these to producing your own Groovy based DSLs   *Groovy for Domain-specific Languages* Fergal Dearle,2010 This book is a practical tutorial walking the reader through examples of building DSLs with Groovy covering meta programming with Groovy Some complex concepts are covered in the book but we go through these in a clear and methodically way so that readers will gain a good working knowledge of the techniques involved This book is for Java software developers who have an interest in building domain scripting into their Java applications No knowledge of Groovy is required although it will be helpful The book does not teach Groovy but quickly introduces the basic ideas of Groovy An experienced Java developer should have no problems with these and move quickly on to the more involved aspects of creating DSLs with Groovy No experience of creating a DSL

is required The book should also be useful for experienced Groovy developers who have so far only used Groovy DSLs such as Groovy builders and would like to start building their own Groovy based DSLs   *Groovy 2 Cookbook* Andrey Adamovich,Luciano Fiandesio,2013-10-22 This book follows a Cookbook style and is packed with intermediate and advanced level recipes This book is for Java developers who have an interest in discovering new ways to quickly get the job done using a new language that shares many similarities with Java The book s recipes start simple therefore no previous Groovy experience is required to understand the code and the explanations accompanying the examples   **Learning Groovy** Adam L. Davis,2016-08-05 Start building powerful apps that take advantage of the dynamic scripting capabilities of the Groovy language This book covers Groovy fundamentals such as installing Groovy using Groovy tools and working with the Groovy Development Kit GDK You ll also learn more advanced aspects of Groovy such as using Groovy design patterns writing DSLs in Groovy and taking advantage of Groovy s functional programming features There is more to Groovy than the core language so Learning Groovy covers the extended Groovy ecosystem You ll see how to harness Gradle Groovy s build system Grails Groovy s web application framework Spock Groovy s testing framework and Ratpack Groovy s reactive web library What You ll Learn Grasp Groovy fundamentals including the GDK or Groovy Development Kit Master advanced Groovy such as writing Groovy DSLs Discover functional programming in Groovy Work with GPars the built in concurrency library Use Gradle the build system Master Grails the web application framework Work with Spock the testing framework Harness Ratpack the reactive web library Who This Book Is For Although this book is intended for those with a Java background anyone with basic programming skills could benefit from it This book is a data filled yet easy to digest tour of the Groovy language and ecosystem   *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 **Ruby DSLs** PHIQUILL. PUBLISHING,2025-07-15 Master the Fundamentals of Domain Specific Languages DSLs Grasp what DSLs are how they differ from general purpose languages and the significant benefits they offer in software development including improved expressiveness readability and maintainability Harness Ruby s Strengths for Internal DSL Creation Understand why Ruby s flexible syntax powerful block mechanisms rich metaprogramming capabilities and object oriented structure make it an ideal choice for building elegant and effective internal DSLs Distinguish Between Internal and External DSLs Learn the defining characteristics advantages and disadvantages of both internal and external DSLs enabling you to make informed decisions about which approach is best suited for various project needs Build DSLs Using Ruby s Core Features Gain practical skills in using Ruby methods arguments symbols and strings as fundamental building blocks for constructing clear and concise DSL statements Leverage Blocks and yield for Structured DSLs Comprehend how Ruby s block and yield mechanisms are essential for grouping related operations managing context and implementing powerful configuration patterns in your DSLs Control Execution Context with instance_eval and class_eval Learn to manipulate self and execute code within specific object or class contexts using instance_eval and class_eval crucial for building sophisticated DSLs Employ Metaprogramming for Dynamic DSL Behavior Explore advanced Ruby metaprogramming techniques like method_missing define_method Structure Your DSLs with Objects and Modules Discover how to effectively organize and share your DSL syntax and logic using Ruby objects and modules promoting modularity and reusability Design User Centric and Expressive DSL Syntax Acquire the skills to collaborate with domain experts understand their language and design intuitive readable and natural feeling DSL syntax that effectively bridges the gap between technical and non technical stakeholders Define Clear DSL Semantics and Execution Logic Learn to map your DSL s syntax to concrete meaning and behavior implementing the underlying logic that dictates what each DSL statement does Plan for the Evolution and Maintainability of Your DSLs Understand strategies for designing robust and adaptable DSLs that can evolve with changing requirements including versioning and effective collaboration

practices Implement Various DSL Patterns with Practical Examples Gain hands on experience by building simple method based block based and object oriented DSLs and explore common patterns like configuration specification testing and workflow DSLs Manage State and Scope Effectively within DSL Contexts Learn to strategically manage state within your DSLs handling local and global configurations and navigating nested scopes to ensure correct behavior Provide Robust Error Handling and Diagnostics for DSL Users Develop techniques for delivering user friendly error messages that offer clear domain specific context improving the overall usability of your DSLs Strategize and Execute Comprehensive DSL Testing Understand the importance of testing DSLs and learn how to perform unit and integration tests to ensure both syntax parsing and semantic behavior are correct Optimize DSL Performance and Efficiency Identify potential performance bottlenecks in DSL implementations and discover strategies for optimization such as caching and judicious use of metaprogramming techniques Compose and Extend DSLs for Greater Flexibility Learn to build larger DSLs from smaller reusable components and design extension points that allow users to customize and integrate multiple DSLs seamlessly

Unveiling the Energy of Verbal Artistry: An Mental Sojourn through **Groovy For Domain Specific Languages Dearle Fergal**

In some sort of inundated with monitors and the cacophony of quick conversation, the profound energy and psychological resonance of verbal beauty often diminish in to obscurity, eclipsed by the continuous onslaught of noise and distractions. Yet, set within the lyrical pages of **Groovy For Domain Specific Languages Dearle Fergal**, a interesting work of literary beauty that impulses with natural emotions, lies an unforgettable journey waiting to be embarked upon. Published with a virtuoso wordsmith, this enchanting opus manuals visitors on a psychological odyssey, delicately exposing the latent potential and profound influence stuck within the intricate web of language. Within the heart-wrenching expanse with this evocative evaluation, we will embark upon an introspective exploration of the book is central themes, dissect its captivating writing type, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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