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# 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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PUBLISHING

# Groovy For Domain Specific Languages Dearle Fergal

**Roman Wölfel**



## **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 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* 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 GPar's 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

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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

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