

New User Guide

Getting Started

Downloading, Installing and Running

- Download
- Installing Groovy
- Running

Up and Running

- Quick Start
- Beginners Tutorial
 - Getting started
 - Code as data, or closures
 - Classes and Objects
 - Regular expressions basics
 - Capturing regex groups
 - Groovy SQL
- Feature Overview
- Differences from Java
- Differences from Ruby

Some of the Groovy Modules

- - Ant Scripting
 - Groovlets
 - Groovy Beans
 - Groovy Templates
 - GroovyMarkup
 - CLIBuilder

The basics

Language basics

- Collections
- Closures
- Control Structures
 - Logical Branching
 - Looping
- Builders
- Bitwise Operations
- Statements
- Strings
- Groovy Math
- Input Output
- Logging
- Operator Overloading
- Regular Expressions
- GPath
- Scoping and the Semantics of "def"
- Scripts and Classes
- Things to remember
- Groovy Categories
- Migration From Classic to JSR syntax

Groovy from the Command-Line

- Groovy CLI
- Groovy Console

Integrating Groovy into your build

- Groovy Ant Task
- Groovyc Ant Task
- Ant Task Troubleshooting
- Compiling Groovy

Working with Java

- Bean Scripting Framework
- Embedding Groovy

Working with XML

- Processing XML
 - Creating XML using Groovy's MarkupBuilder
 - Creating XML using Groovy's StreamingMarkupBuilder
 - Creating XML with Groovy and DOM
 - Creating XML with Groovy and DOM4J
 - Creating XML with Groovy and JDOM
 - Creating XML with Groovy and XOM
 - Reading XML using Groovy's DOMCategory
 - Reading XML using Groovy's XmlParser
 - Reading XML using Groovy's XmlSlurper
 - Reading XML with Groovy and DOM
 - Reading XML with Groovy and DOM4J
 - Reading XML with Groovy and Jaxen
 - Reading XML with Groovy and JDOM
 - Reading XML with Groovy and SAX
 - Reading XML with Groovy and StAX
 - Reading XML with Groovy and XOM
 - Reading XML with Groovy and XPath
 - XML Example

More Advanced Topics

DSLs and Functional Programming

- Functional Programming
- Writing Domain-Specific Languages

Creating a Builder

- BuilderSupport
- Make a builder
- Leveraging Spring
- Mixed Java and Groovy Applications
- Security
- Advanced OO
 - Groovy way to implement interfaces

Testing with Groovy

- Groovy Mocks — used to assist (typically unit) testing of classes in isolation
 - Developer Testing using Closures instead of Mocks
 - Developer Testing using Maps and Expandos instead of Mocks

- Groovy Mocks and Java Mocks - An Extended Example
- Integrating TPTP — some hints for using the Eclipse TPTP facilities with Groovy
- Test Combinations — some hints for using Groovy to assist generate test data in particular all combinations and all pair combinations
 - Effectiveness of testing combinations with all pairs
- Test Coverage — is a useful measure of the effectiveness of unit tests and can be derived for Groovy tests
 - Code Coverage with Cobertura
- Testing Web Applications — how to use NekoHTML, HtmlUnit, Watij and WebTest to test web applications
- Testing Web Services — how to test Web Services using Groovy directly and in conjunction with WebTest and SoapUI
- Unit Testing — Groovy simplifies JUnit testing, making it more Groovy, in several ways