Advanced Groovy

Tips & Tricks

Contact Info
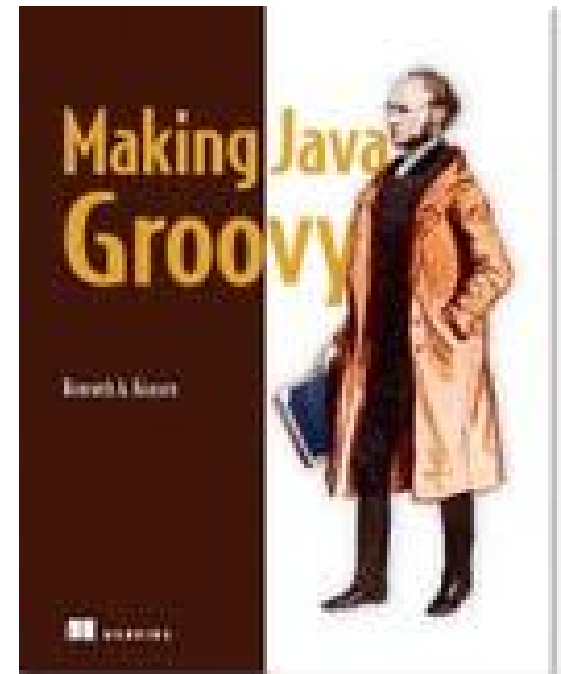
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Making Java Groovy

http://manning.com/kousen

Coerced Closures

Use closures to implement interfaces

Replaces anonymous inner classes

Coerced Closures

Examples:
   Filename Filter
   ICNDB

Coerced Closures

Use single closure

or

Map of method names to closures

Coerced Closures

Example
Utility Methods

(also shows GroovyTestCase additions)

Runtime metaprogramming

Use the metaClass

Make Java classes easier to use

Used in Grails dynamic finders

Runtime metaprogramming

Examples:

Complex

Additional Logging methods

Operator Overloading

Adding operator methods
    plus, minus, leftShift
    equals

Operator Overloading

Example:
Human resources

Creating a Range

Implement Comparable interface

Override
   next
   previous

Creating a Range

Example:
   Train Stations

Groovy JDK methods

Functional methods
  collect and inject

Collection
  find, findAll
  combinations
  eachPermutation(Closure)
  max, min, sum, count, join, ...

Groovy JDK methods

Examples:

sorting strings

summing numbers

permutations

combinations

... others also fall in this category ...

Groovy JDK Methods

"...url...".toURL().text

Use groovy.sql.Sql
 call stored procedures

Easy java.io.File processing

Groovy API

Examples

    summing numbers, revisited

    calling a stored procedure

    basic authentication

       (also shows multiple returns)

AST transformations

@Immutable

@Delegate

@Singleton

@TupleConstructor

@EqualsAndHashCode

@ToString

@Canonical

Thanks for coming!

Source code located in GitHub at:

https://github.com/kousen/AdvancedGroovy.git

Please complete the session evals