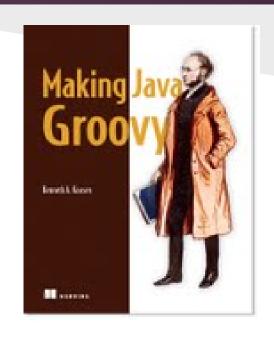
The Groovy Web:

groovlets, microframeworks, and Grails

Who Am I?

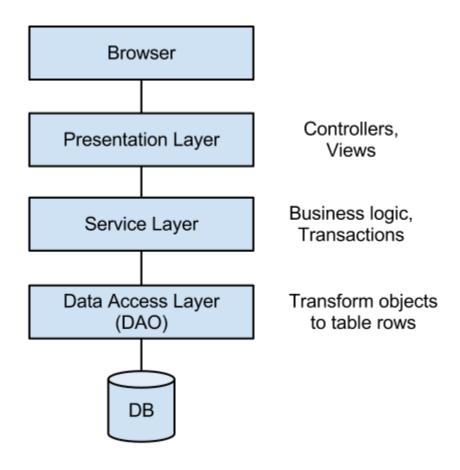
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Making Java Groovy http://manning.com/kousen

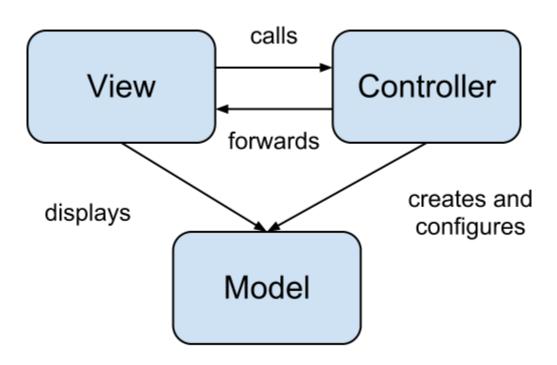
Web Architecture

Every Java web app from 30,000 ft



MVC

Oversimplification, but interesting



Servlets

Java Servlets
Implement in Java or Groovy

Servlets

Demo:

HelloServlet HelloGroovyServlet

ServletCategory

groovy.servlet.ServletCategory

Groovy metaprogramming in action

```
static Object get(..., String key)
static void set(..., String key, Object value)
static void getAt(..., String key)
static void putAt(..., String key, Object value)
```

ServletCategory

Demo:

HelloServletCategory

Groovy Templates

Simple template engine

GString template engine

XML template engine

Configure GroovyServlet

Implicit variables

```
request, response, session application params, header
```

html --> MarkupBuilder

Convenient for simple applications

Easy for RESTful services

Demo:

HelloGroovlet GroovyBaseball SongService

Ratpack

Microframework Based on Sinatra (from ruby)

Build routes as URLs Bundled with jetty

Ratpack

Demo:

Basic routing

Groovy's killer app (or Gradle, or Spock, or Griffon, ...)



Complete stack framework
Groovy DSLs +
Spring + Hibernate + SiteMesh
Tons of plugins

Architectural decisions

No DAO Layer

DAO methods created by metaprogramming static methods on domain classes

Task.findByStartDateGreaterThan(...)

Scaffolding
Controllers use DAO methods

Services

Transactional by default

Can use Spring @Transactional

Autowired by name into other artefacts

Demo:

Quest for the Holy Grails

Need to be careful Don't do too much in controllers

Inject services

Let them do the work

Don't bypass data access layer (just because it's easy to do)

Conclusions

Groovy simplifies Java
Simpler syntax
Builders and metaprogramming

groovlets useful for REST

Microframeworks show promise

Grails rocks, but be careful...

Session Evaluations

Please complete your session evals:)