

Grails In Practice

Jeff Brown

jeff.brown@springsource.com

SpringSource

<http://www.springsource.com/>

Philly Emerging Technology

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- SpringSource Acquires G2One In 2008
- We Lead And Sustain The Development Of Groovy And Grails
- Groovy Project Lead
 - Guillaume Laforge
- Grails Project Lead
 - Graeme Rocher
- Free Software
- Professional Services

Introduction To Groovy



What Is Groovy?

- Groovy...
 - A Dynamic Language For The Java Virtual Machine
 - Inspired By...
 - smalltalk
 - python
 - ruby
 - others
 - Integrates Very Well With Java



- Groovy is Java-like
 - Easy to learn for a Java developer
 - **flat learning curve**
 - Simpler than Java for beginners and **subject matter experts**
- Seamless integration with Java
 - You can **mix Groovy and Java** objects together
 - Groovy class extending Java class implementing Groovy interface, and vice versa...
 - Same strings, regex, APIs, OO, threads, security
 - **Same paradigm and platform!**
 - **No impedance mismatch!**

Introduction To Grails

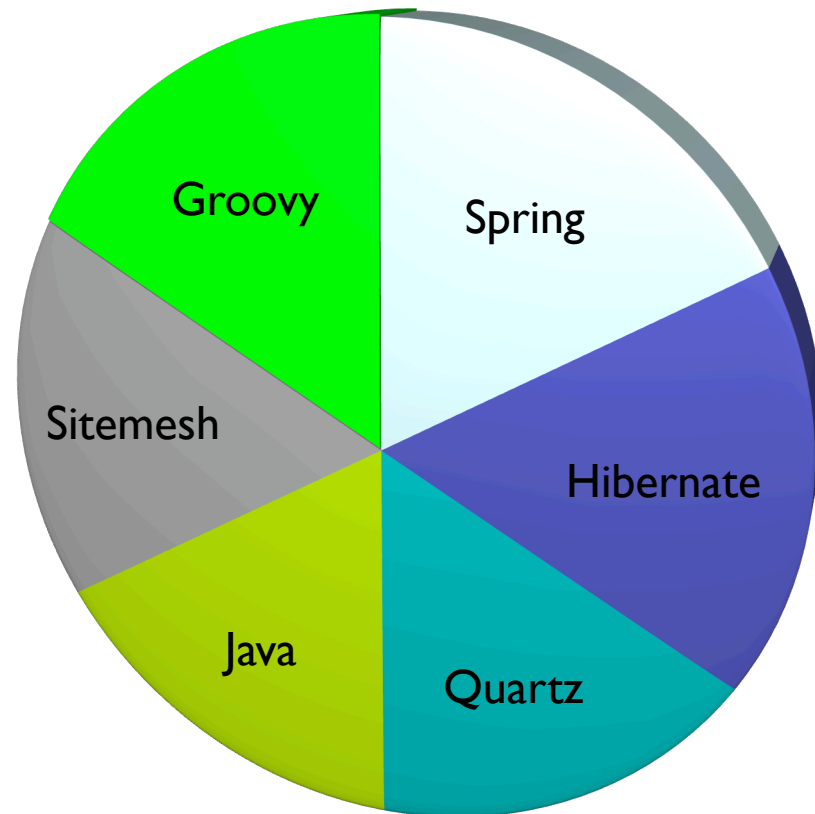
What Is Grails?

- A Web platform that implements the full stack from build system down to ORM layer
- Leverages existing technologies like Spring, Hibernate, Quartz etc. avoiding re-inventing the wheel
- Features and extensible plug-in system and an environment for runtime configuration built on Spring

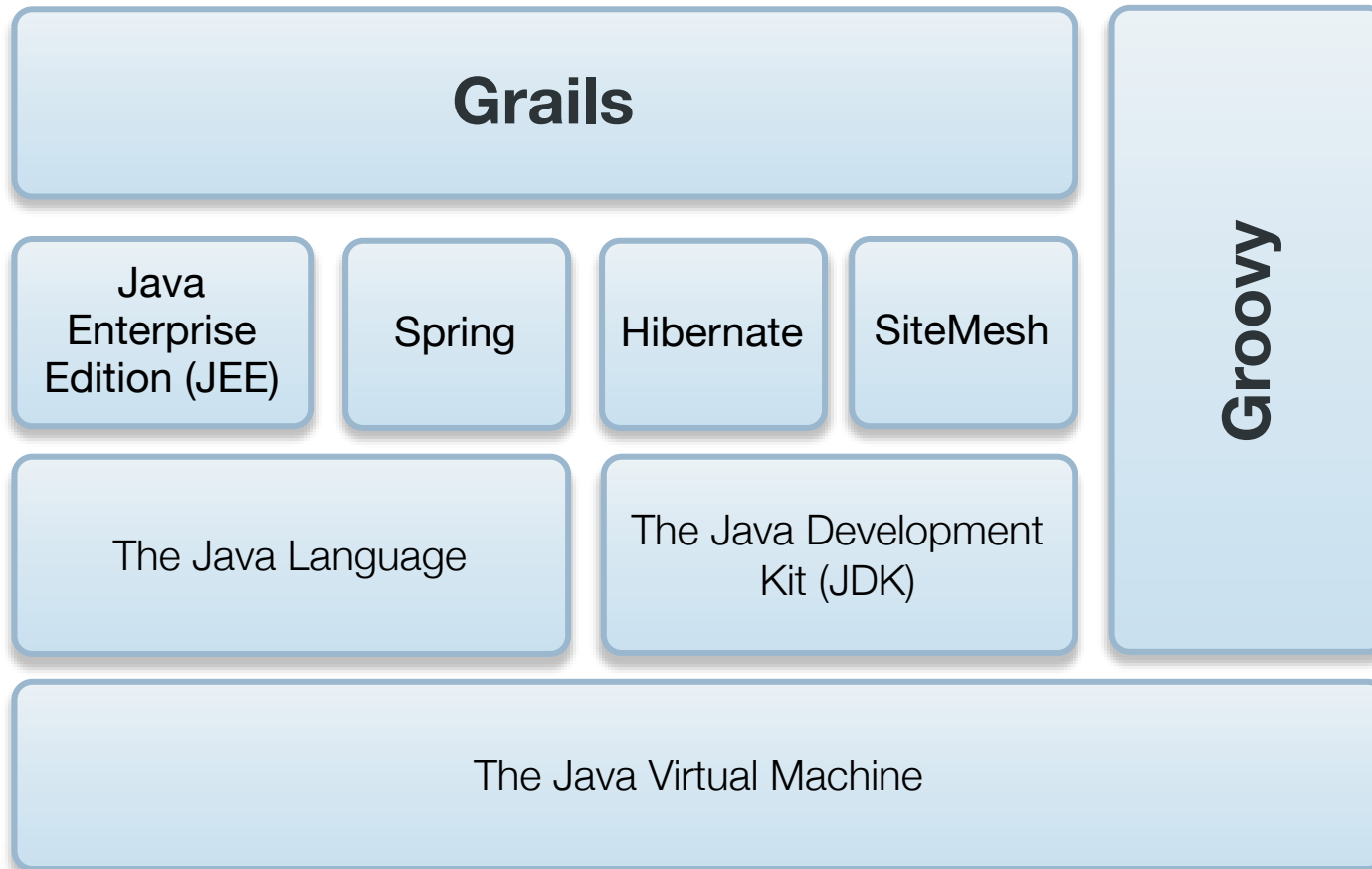


Best Of Breed

- Spring
- Hibernate
- Groovy
- Quartz
- Sitemesh
- Jetty
- Ant
- Java

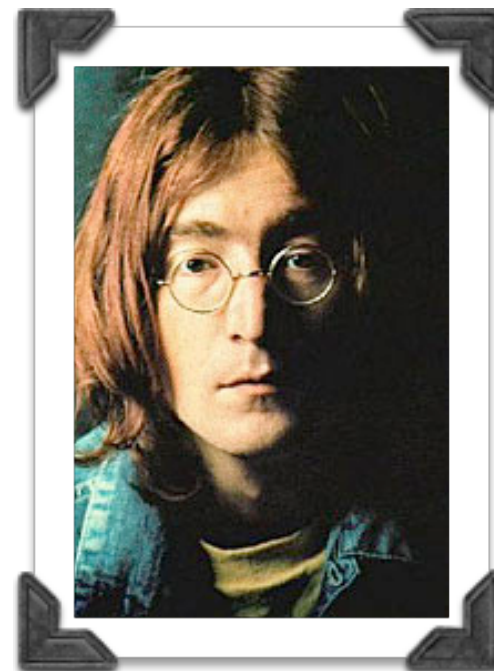


The Grails Stack



- A True Visionary

“Imagine no config files.
It’s easy if you try.
No action mappings.
Man, that Grails is going to be fly.”

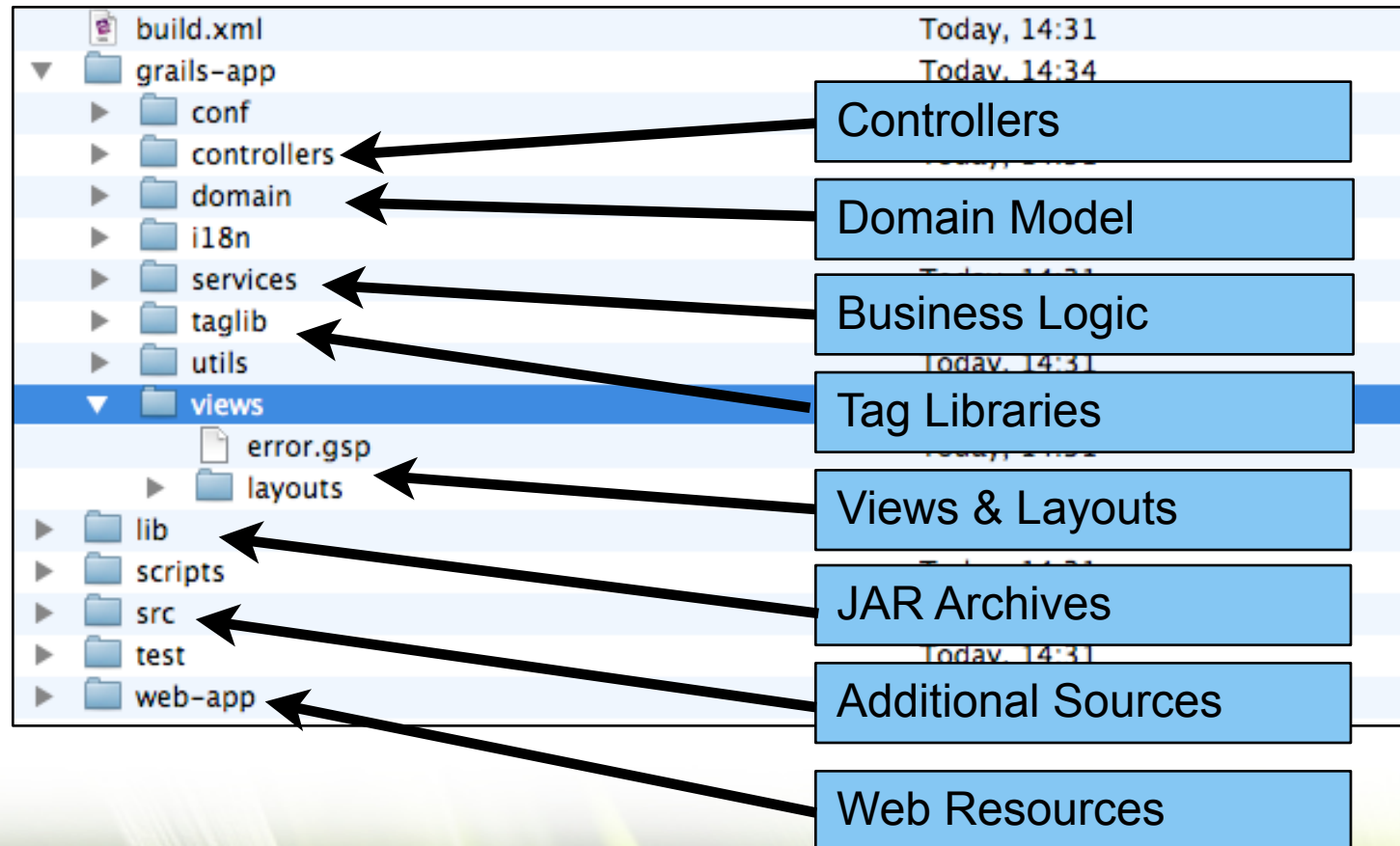


In a rare moment of clarity, Yoko convinced John to remove this verse from Imagine since Grails hadn't been invented yet.

Demo

Grails Quick Start
With Dynamic Scaffolding

A Grails Project

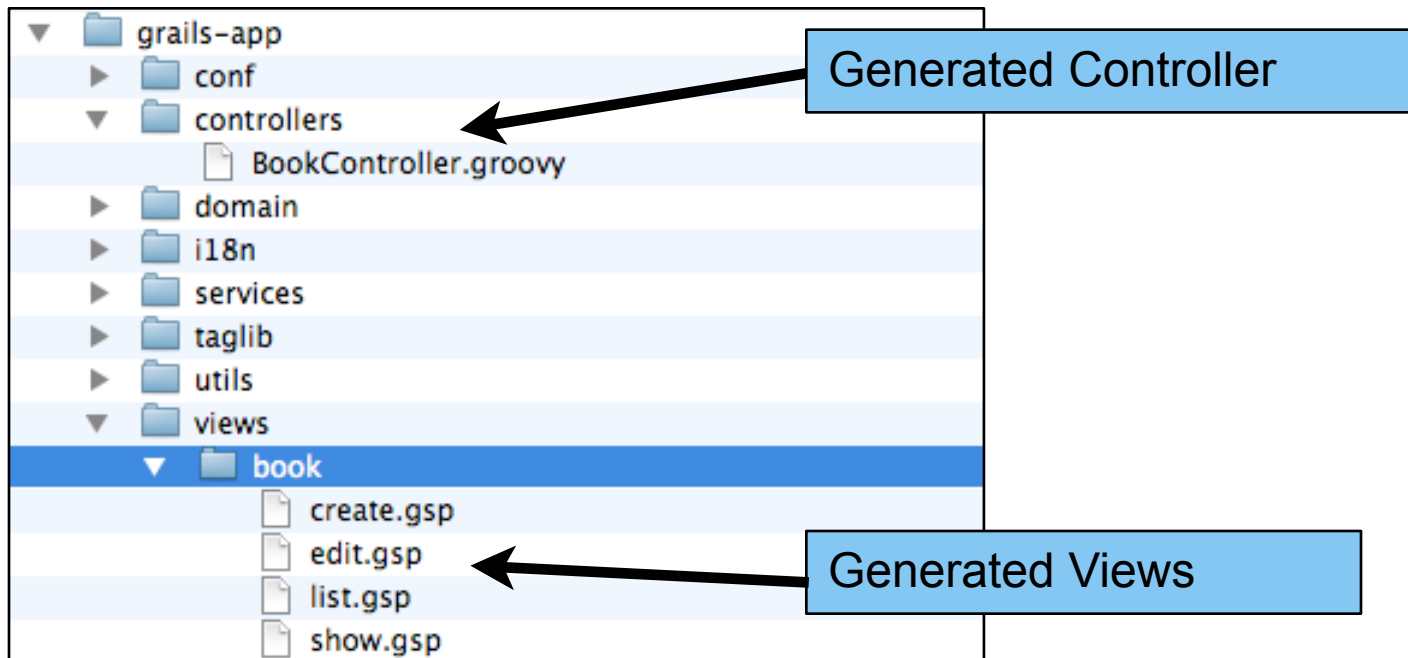


- Get Started Quickly
 - application scaffolding
 - in memory database
 - bundled servlet container
 - common build targets provided
 - run-app, test-app, war, etc...
 - interactive shell and console
 - Eclipse and TextMate project files
 - etc...

- Grails provides the ability to generate CRUD applications from a domain also known as Scaffolding
- This useful for:
 - A learning experience - see how the code relates to your domain
 - Simple administrative interfaces
 - Getting started - don't start with a blank sheet!
- 2 Types
 - Dynamic scaffolding
 - Static scaffolding

Static Scaffolding

- Static scaffolding generates physical resources



Demo

Generated Scaffolding

- The “M” In MVC
- GORM
 - super powerful ORM
 - dynamic finders
 - CRUD
- Domain Constraints
- Custom Mapping
 - ORM DSL

- The “C” in MVC
- Traffic Cop
- Define Actions
- Gather/Manipulate Data
- Navigate To A View
- etc...

- The “V” In MVC
- Default View Technology
 - view is pluggable
- Similar To JSP
 - much better
- Modularization Through Templates
- Custom Tag Libraries

Q & A

