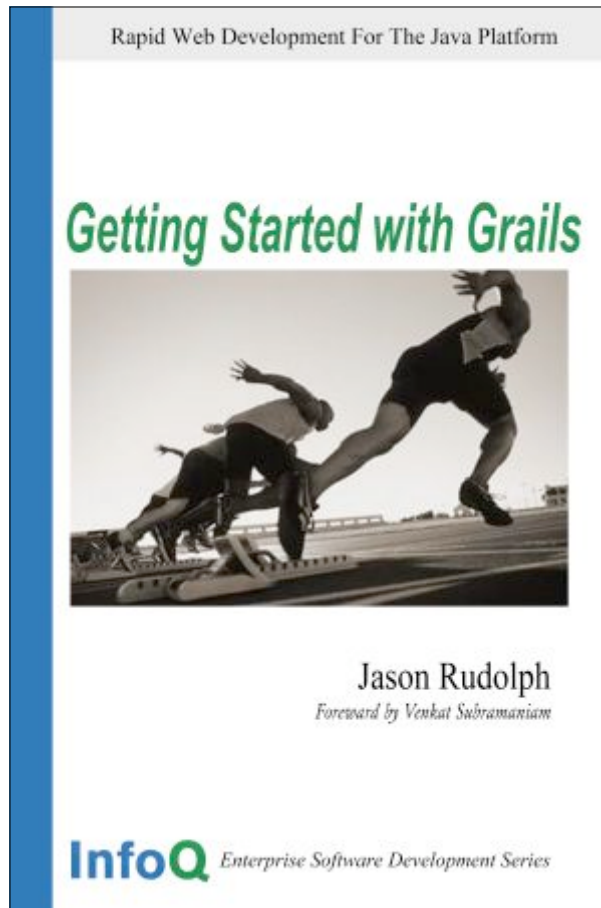


Going Further with Grails

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Introduction



- Jason Rudolph
- jasonrudolph.com
- thinkrelevance.com

Agenda

- **Beyond scaffolding**
- **When the UI and the DB disagree**
- **DRY UI**
- **Business logic, right where it belongs**
- **Calling in the Java infantry**
- **Security? Just plug it in**

scaffolding.next()

Demo

Tag Libraries

- **Pre-packaged tags**
 - Logical - if, else, etc.
 - Iterative - while, each, findAll, etc.
 - Form - textField, checkBox, datePicker, etc.
 - Rendering - layoutBody, paginate, etc.
 - Ajax - remoteField, submitToRemote, etc.
 - And others...

Tag Libraries (cont'd)

- **Custom tags**
 - Named (and found by Grails) using convention
 - Names end with "TagLib" (e.g., RacetrackTagLib.groovy)
 - Located in grails-app/taglib
 - Implemented as closures
 - No TLDs necessary
- **User-contributed tags**

Command & Conquer

Demo

Command Objects

- **Why?**
 - Business objects minus persistence, or
 - View-centric adaption of the domain
- **Auto-populated from request params**
- **Play nicely with constraints**
- **At home in src/groovy, grails-app/controllers, or directly inside the controller**

“Flash” Cards

`redirect_after_post == good`

!manual_session_cleanup

`request < flash < session`

```
flash.lifetime ==  
    request.lifetime++
```

Talking Back

Demo

Layouts

- **Powered by SiteMesh**
- **A home for common site assets**
 - Menus, headers, footers
 - Global CSS and JavaScript
 - Global metadata
- **Precedence rules**
 - Explicitly declared layouts
 - Layout by convention

Where's My Layout?

Rendering views/sponsorship/create.gsp ...

1. Is it declared in the view?

```
<meta name="layout" content="foo" />
```

2. Fallback to convention. Layout for this view?

```
/views/layouts/sponsorship/create.gsp
```

3. Layout for this controller?

```
/views/layouts/sponsorship.gsp
```

4. Punt!

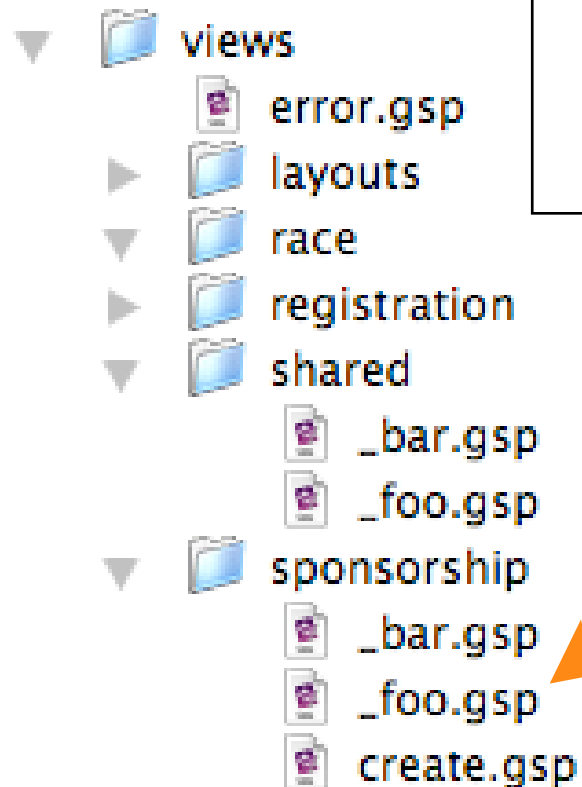
Partial Templates

- **Why? DRY UI!**
- **Naming**
- **Locating**
- **Passing variables**
 - bean
 - collection
 - hash

It's All Relative

views/sponsorship/create.gsp

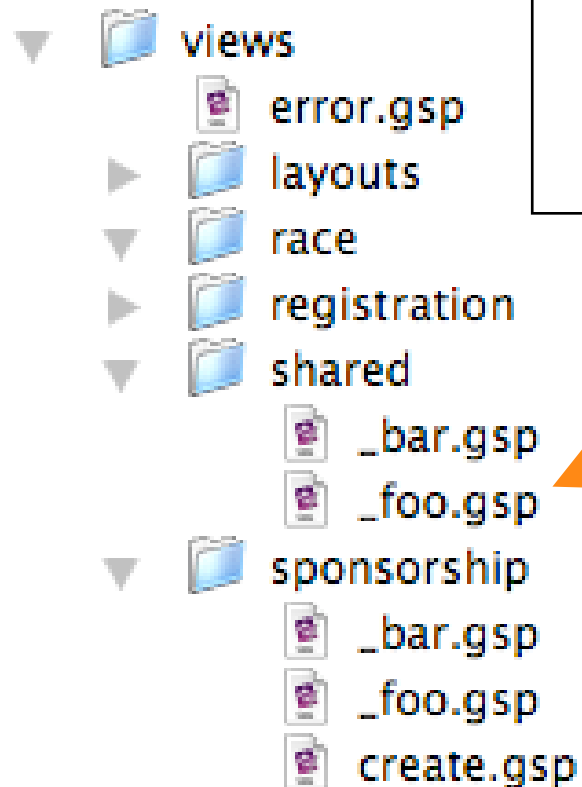
```
<!-- ... -->  
<g:render template="foo">  
<!-- ... -->
```



From the Top

views/sponsorship/create.gsp

```
<!-- ... -->  
<g:render template="/shared/foo">  
<!-- ... -->
```



Partial Templates

- **Why? DRY UI!**
- **Naming**
- **Locating**
- **Passing variables**
 - bean
 - collection
 - hash

At Your Service

Demo

Services

- **Declarative transactionality**
- **Flexible scoping**
- **Zero-configuration dependency injection**

Calling All JARs

Demo

Security



- **Authenticate**
- **Authorize**
- **Administer**

Acegi Plugin

- User account management
- Password encryption
- Log in & log out interface
- Role management
- Resource management
- Hide/show UI elements based on user roles

Lock-down

Demo

Whew!

- It ain't just scaffolding
- The UI and the DB needn't always agree
- Banishing UI redundancy
- Thin controllers, fat services
- Java at your fingertips
- Plug in and go

Resources

- **grails.org**

- Downloads

- Latest Release (1.0)

- Development Snapshot (1.0.1)

- User guide, tutorials, screencasts, etc.

- Mailing lists (grails.org/mailling+lists)



Rapid Web Development For The Java Platform

Getting Started with Grails



Jason Rudolph

Foreward by Venkat Subramaniam

InfoQ Enterprise Software Development Series

Slides & Examples Available
@
www.jasonrudolph.com/downloads



Please Fill Out Your Evaluations



Resources

- grails.org/scaffolding
- **Tag Libraries**
 - grails.org/dynamic+tag+libraries
 - grails.org/gsp+tag+reference

Resources (cont'd)

- **Command objects**

- grails.org/command+objects+and+form+validation

- **Flash**

- grails.org/controller+dynamic+methods#controllerdynamicmethods-flash

Resources (cont'd)

- **Layouts**

- grails.org/views+and+layouts

- **Partial templates**

- grails.org/tag+-+render

- grails.org/services

Resources (cont'd)

- grails.org/plugins
- grails.org/AcegiSecurity+Plugin