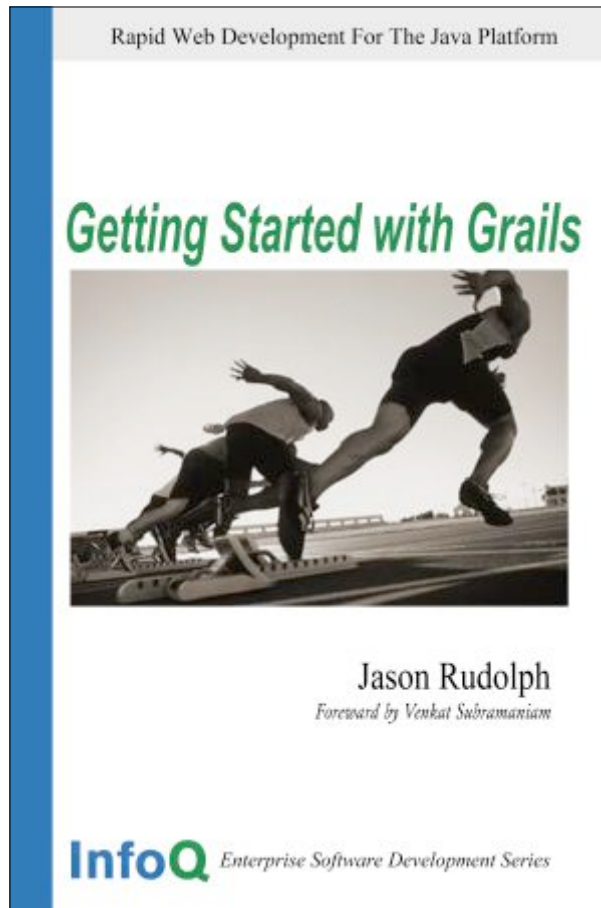

Going Further with Grails

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Introduction



- Jason Rudolph
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InfoQ Enterprise Software Development Series

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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
```

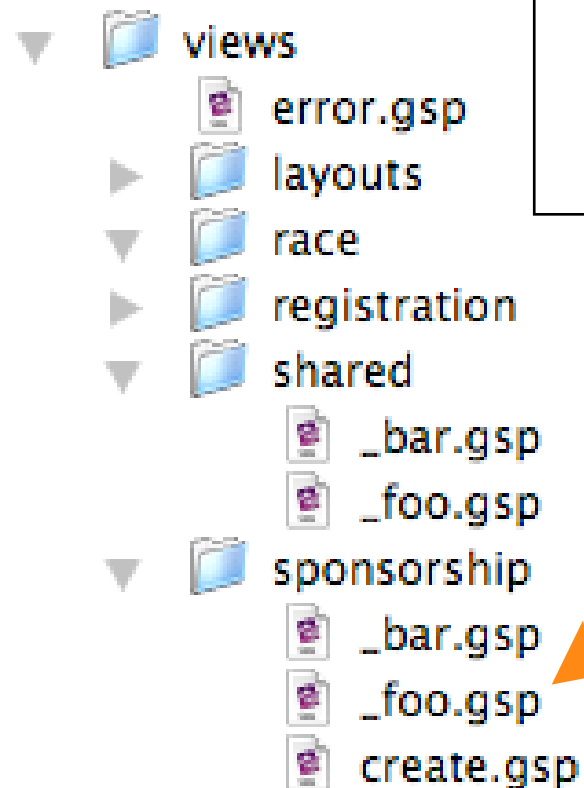
4. Punt!

Partial Templates

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

It's All Relative

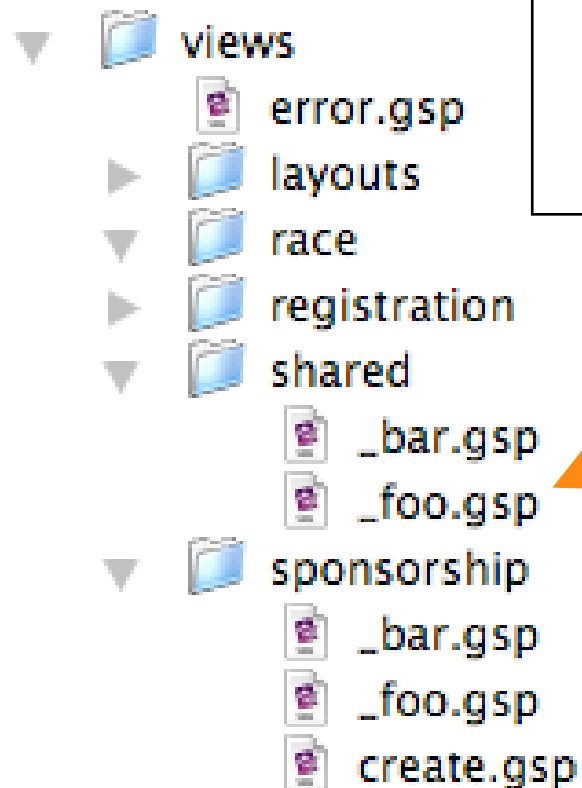
views/sponsorship/create.gsp



```
<!-- ... -->  
<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**
- **Registration e-mails**

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 (1.0.1)
 - Development Snapshot (1.0.2)
- 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

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Slides & Examples Available
@
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Please Fill Out Your Evaluations

