

#### Bending GORM for Enterprise

5-minute Techniques for Enterprise Integration

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#### Introduction

Rapid Web Development For The Java Platform

#### Getting Started with Grails



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Foreward by Venkat Subramaniam





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#### **Agenda**

- The case for GORM
  - Conventional thinking, unconventional productivity
  - Relationships, any way you like 'em
  - Constraints, declare and be done
- GORM for non-conformists
  - Hibernate mappings
  - EJB3 annotations
  - Groovy to the rescue!





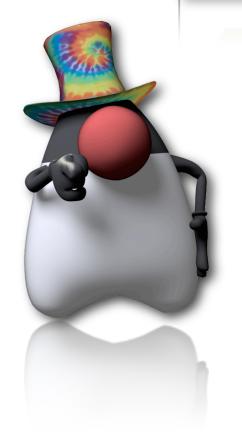
#### **DAOs Considered Harmful**

- Grails Object-Relational Mapping (GORM)
  - Zero-configuration persistence management
  - Rich relationship model
  - Declarative validation
  - Powerful query support
  - Easy scaffolding



#### **Rock-Solid Foundation**











Demo

#### **Defying Conventional Wisdom**

Non-conforming table/column names

Custom sequences

Complex keys

Advanced mappings



# No Schema Left Behind Demo



#### Hibernate XML - Step-by-Step

- Define Hibernate artifacts
  - Add hibernate.cfg.xml
  - Prepare HBM file for each deviant table
  - Consider reverse engineering with Hibernate tools
- Create Grails domain classes
- Add constraints (optional)



#### Why Hibernate XML?

- Standard Hibernate artifacts
- Reuse your existing mappings
- Full power of GORM
  - Dynamic persistence methods
  - Constraints
  - Scaffolding



## Pimp My EJBs Demo



#### **EJB3 Step-by-Step**

- Start with Java 5 (or higher)
- Update DataSource.groovy
  - configClass = GrailsAnnotationConfiguration.class
- Add POJOs to src/java
- Define hibernate.cfg.xml
- Drop in constraints (optional)



#### Why Annotaate?

- Standards-based POJOs
  - Reuse elsewhere
  - Not tied to Grails
- Full power of GORM (once again)
  - Dynamic persistence methods
  - Constraints
  - Scaffolding



### A Groovier Solution

Demo



### This Just In...

**Brand New for 1.0!** 



#### **GORM DSL**

```
class Knight {
  // ...
  static mapping = {
    table 'knights'
    version false
    id column: 'knight id'
    columns {
      numDragonsSlain column: 'dragon count'
      // ...
```



# de es el Demo



#### More Declarative DSL Goodness

- ID generation
- Lazy/eager fetching
- Inheritance strategy
- Index definitions
- Caching



#### Why DSL?

No additional XML or Java needed

Lean syntax

Mappings close at hand

Full power of GORM (one more time)



#### **Going Further with GORM**

- GORM outside of Grails
  - grails.org/gorm+-+standalone+gorm

- Java on GORM
  - jroller.com/page/ie?entry=java\_on\_grails



#### Still More to Explore

- Custom user types
  - grails.org/hibernate+integration

- Migrations
  - code.google.com/p/dbmigrate/wiki/Grails

- Explicit Insert Plugin
  - grails.org/explicit+insert+plugin

#### Resources

- grails.org
  - Downloads
    - Latest release (1.0)
    - Development snapshot (1.0.1)
  - User guide, tutorials, screencasts, etc.
  - Mailing lists (grails.org/mailing+lists)





#### Resources (cont'd)

- GORM Documentation
  - grails.org/gorm

- ORM DSL
  - grails.org/GORM+-+Mapping+DSL



#### Resources (cont'd)

- Grails + EJB3 Tutorial
  - infoq.com/articles/grails-ejb-tutorial

- Hibernate Tools
  - hibernate.org/255.html



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#### **Getting Started with Grails**



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#### Slides & Examples Available



#### jasonrudolph.com/downloads



#### **Please Fill Out Your Evaluations**



