

Intro To Grails 3 For Spring Developers

St. Louis Java User Group - March 9, 2017

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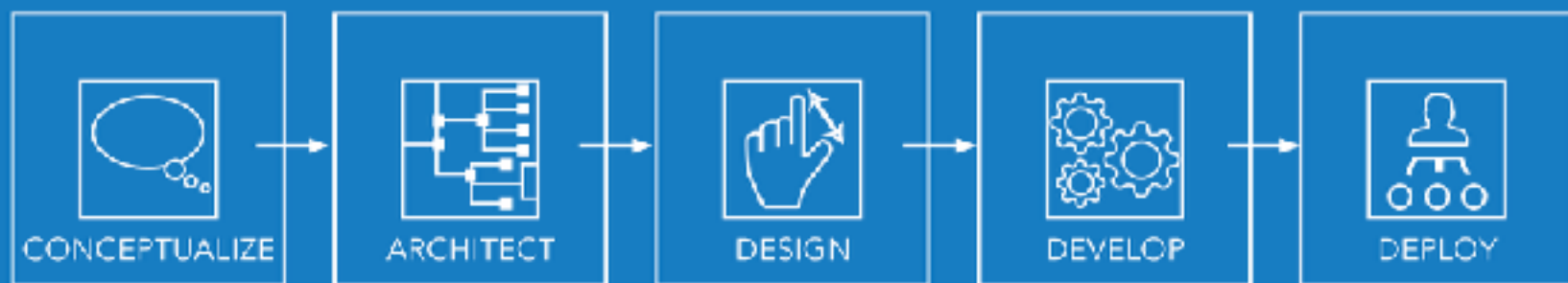


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Software Engineering Services



- 130+ software engineers
- Most hold advanced (MS/PhD) degrees
- Full life-cycle services



90% of OCI Clients are Repeat Clients



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It Comes Down to 3 Things...



SOFTWARE
ENGINEERING
SERVICES



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ENGINEERING
TRAINING

Software Engineering Training



- 23+ years experience
- Over 50,000 trained
- More than 100 current course listings
- 35 instructors on staff
- Providing technology training for Washington University's Professional Education Technology & Leadership Center (PETLC)

Coming Soon!

Grails Online Training Workshops

We are excited to announce the release of an online Grails training series! These workshops will be 1-day and delivered as live, instructor-led classes by Grails Co-Founder Jeff Scott Brown.

Publishing REST Services With Grails 3

- Quick Intro To REST
- GORM And REST
- Grails Views
 - JSON Views
 - Markup Views
- Versioning APIs
- Microservices
- Spring Security For REST

GORM Deep Dive

- Introduction To GORM
- Advanced Query Techniques
- Multi Tenancy
- Multiple Data Sources
- GORM With Non Relational Data Stores
- Using GORM Outside Of Grails

Advanced Groovy Metaprogramming With Grails

- Runtime Metaprogramming vs. Compile Time Metaprogramming
- ExpandoMetaClass
- AST Transformations
- Traits
- Enhancing Grails Artifacts

Visit ociweb.com/training/grails for more information



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Open Source Technologies



We actively build, support and sponsor numerous Open Source products.





OCI | HOME TO GRAILS

- Team includes Grails co-founders & subject matter experts from around the globe
- Lead sponsor at G&G conferences across the globe
- 25+ updates & releases to the framework in the past 9 months
- Grails 3.1 shipped Jan 2016





- Easy learn for Java users
 - Convention-over-Configuration
 - Sensible Defaults
 - Opinionated APIs
- Seamless integration with Java, JVM & existing Java EE containers
- Powerful plug-in capabilities & community

WE ARE HIRING!



- ✓ Groovy And Grails Project Work
- ✓ Grails 2 -> 3 Migrations
- ✓ Grails Plugin Development
- ✓ Expanding GORM's Reach
- ✓ New Application Profiles
- ✓ Grails Core Development

`grailsjobs@objectcomputing.com`

Agenda

- Introduction To Groovy
- Introduction To Grails
- Grails
 - Spring Made More Simple
 - Dependency Injection
 - Proxyless Solutions
 - REST Made More Simple
 - Declarative Approach
 - Custom Response Formats
- Q&A

What Is Groovy

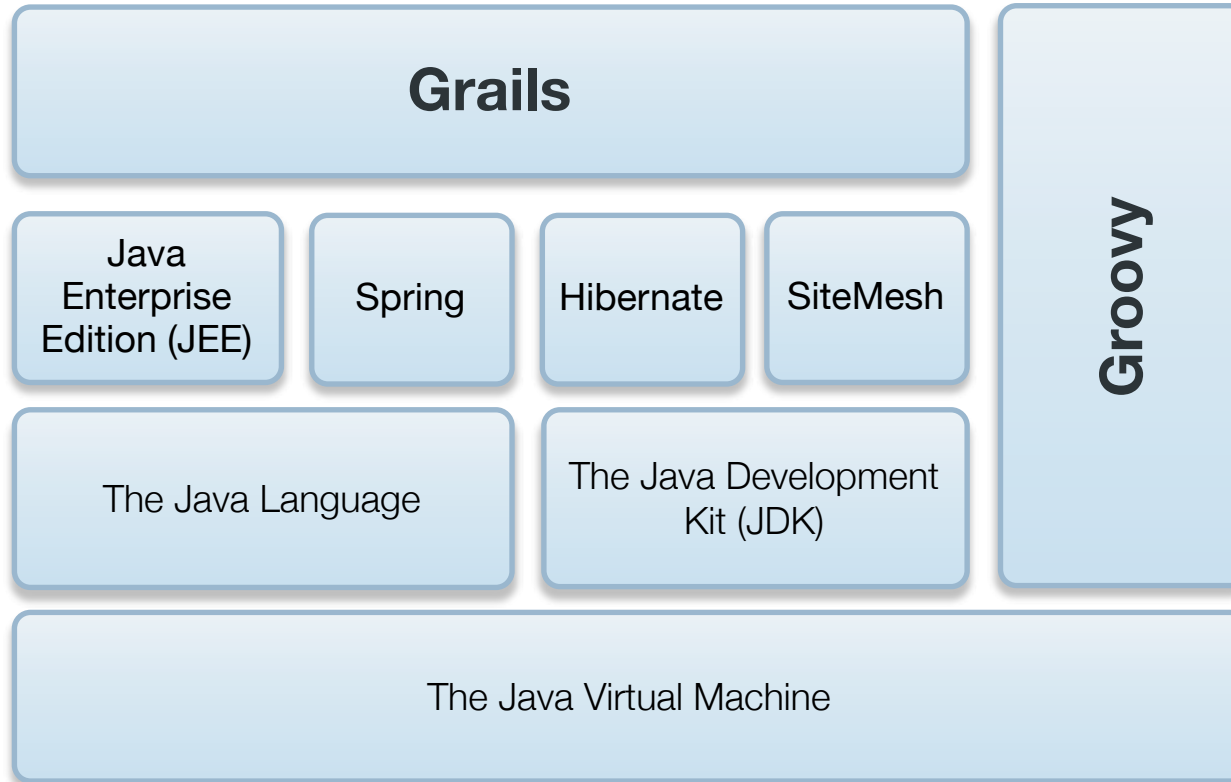
- The Groovy Programming Language...
 - dynamically typed (when you want it to be)
 - dynamically dispatched (when you want it to be)
 - targets the JVM
 - first class integration with Java and its libraries
 - very well suited for building web applications
 - responsible for the flexibility in Grails

What Is Grails?

- Full Stack Framework For Building Web Applications
 - Build Tool
 - ORM
 - Dependency Injection
 - Runtime Container
 - Testing Framework
 - Plugin System (!!!)
 - Etc...

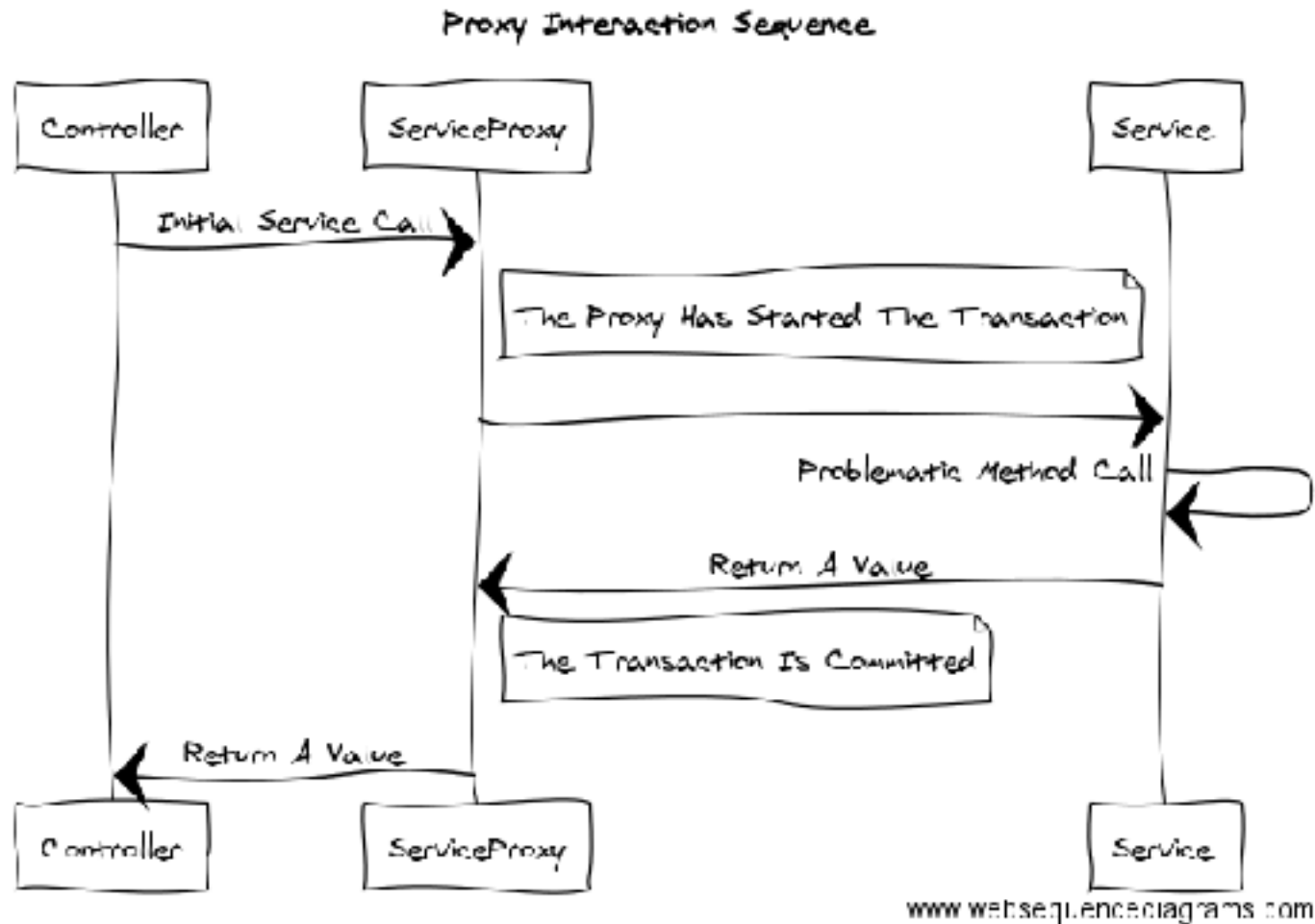
Simplicity And Developer Productivity Are Key!

The Grails Stack



Code!

Transactional Proxy



Transactional Annotation

```
import grails.transaction.Transactional

@Transactional
class BookmarksService {

    def someServiceMethod() {
        // do some work...

        if(someCondition) {
            // transactionStatus implements
            // org.springframework.transaction.TransactionStatus
            transactionStatus.setRollbackOnly()
        }
    }
}
```

Q & A