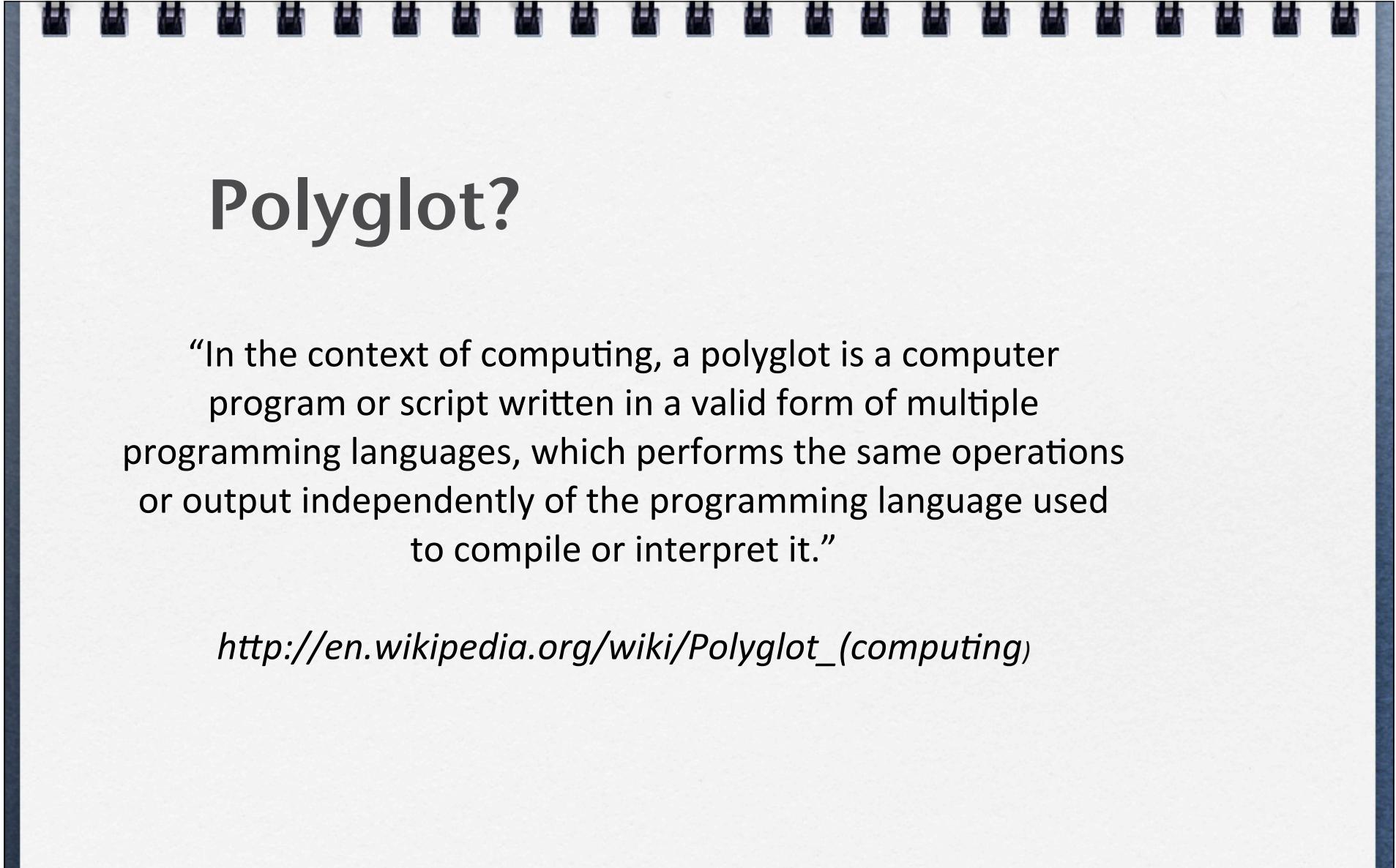




# Polyglot Web Development With Grails 2

## QCon SF 2012

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# Polyglot?

“In the context of computing, a polyglot is a computer program or script written in a valid form of multiple programming languages, which performs the same operations or output independently of the programming language used to compile or interpret it.”

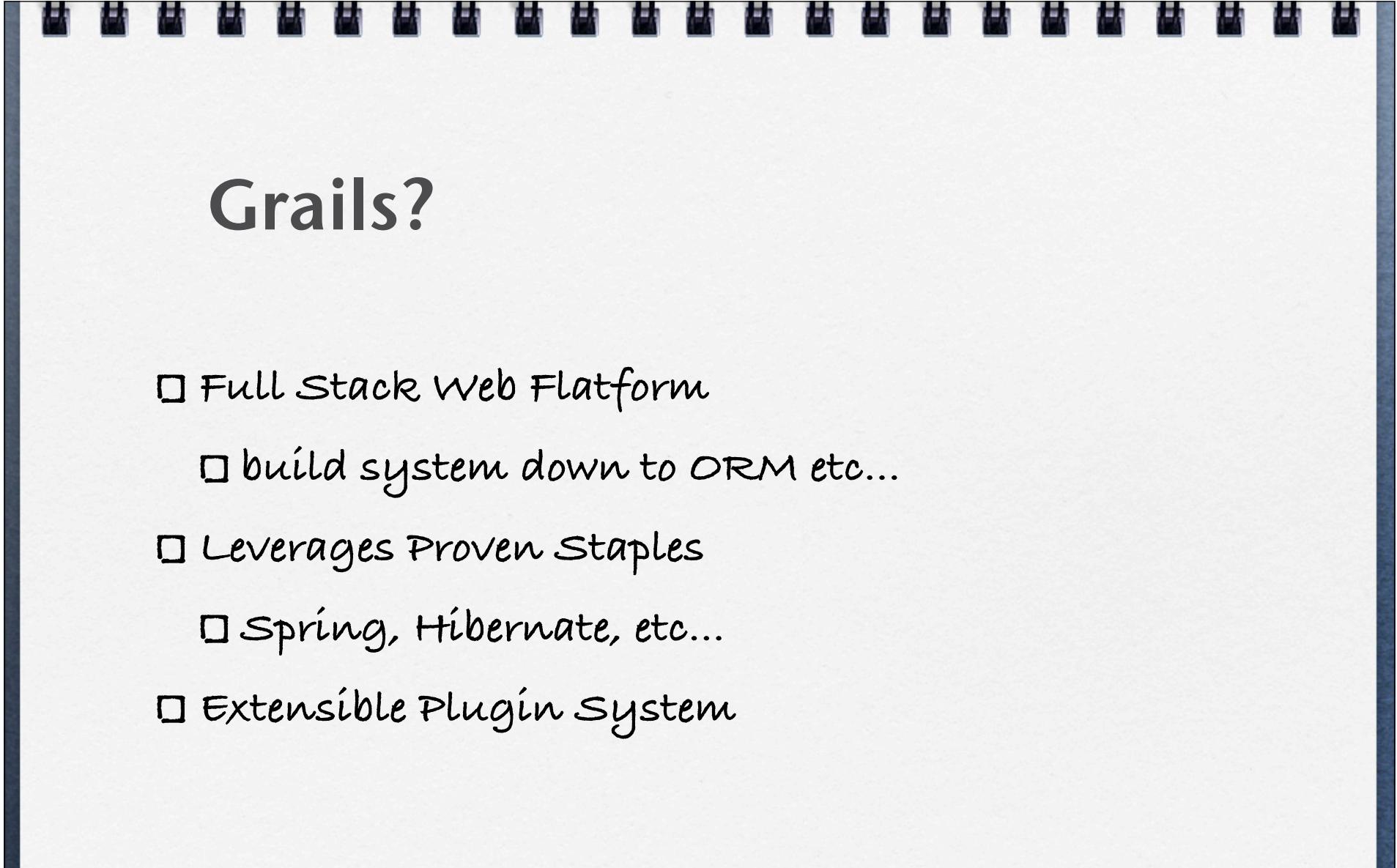
*[http://en.wikipedia.org/wiki/Polyglot\\_\(computing\)](http://en.wikipedia.org/wiki/Polyglot_(computing))*

# Languages On The JVM



*The Polyglot Man - Orange, 1969*  
Miró, Joan (1893-1983)

- Java
- Groovy
- Clojure
- Scala
- JRuby
- Etc...

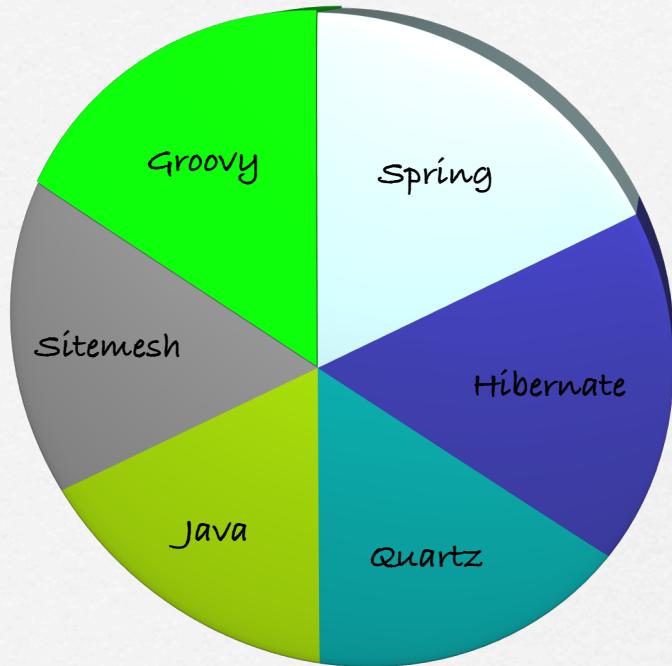


# Grails?

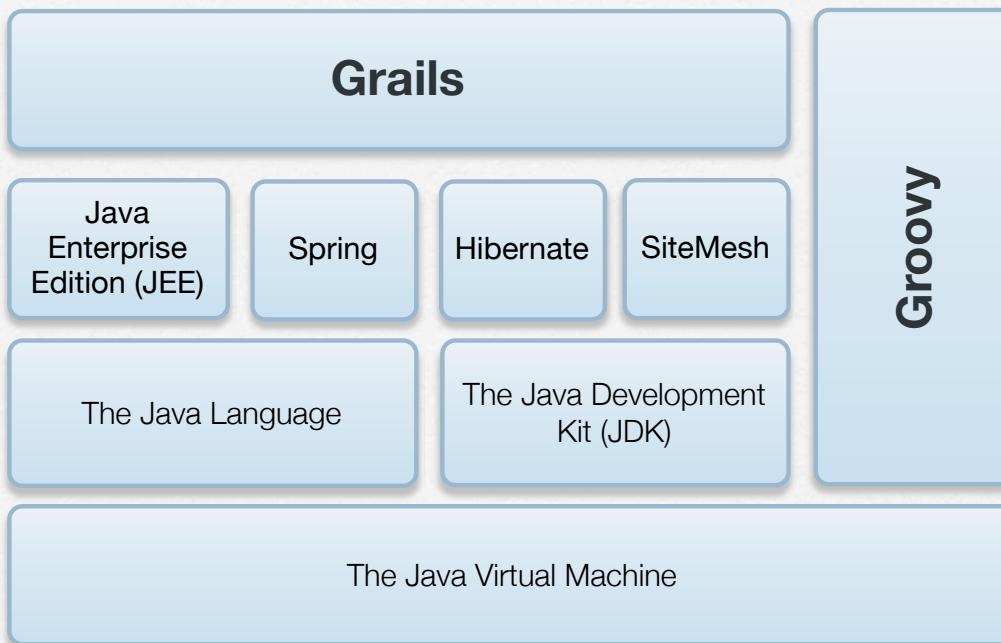
- Full Stack Web Platform
- build system down to ORM etc...
- Leverages Proven Staples
- Spring, Hibernate, etc...
- Extensible Plugin System

# Best Of Breed

- Spring
- Hibernate
- Groovy
- Sitemesh
- Tomcat
- Java



# The Grails Stack



# Two Great Tastes...



"Hey! You Got Your  
Clojure In My Grails!"

"Hey! You Got Your  
Grails In My Clojure!"



# Count The Languages...

```
class PolyglotController {  
  
    def sum = {  
        def x = params.getInt('x')  
        def y = params.getInt('y')  
  
        sum = mathHelper.addNumbers(x, y)  
  
        render "$x + $y is $sum"  
    }  
}
```



# Java Math Helper

```
// src/java/com/demo/MathHelper.java
package com.demo;

public class MathHelper {

    int addNumbers(int x, int y) {
        return x + y;
    }
}
```



# Groovy Math Helper

```
// src/groovy/com/demo/MathHelper.groovy
package com.demo

class MathHelper {

    def addNumbers(x, y) {
        x + y
    }
}
```



# Clojure Math Helper

```
; src/clj/math_helper.clj
(ns grails)
(defn addNumbers [x y]
  (+ x y))
```



# Back To The Peanut Butter

- Who Gets The Credit?
  - Grails?
  - Groovy?
  - Clojure?
  - Java?
  - The JVM?



# In Action...

- Demo Time
- explore a simple polyglot app
- a look under the hood

Q & A

Thank You!