



# Refactoring Java to Rails

Nick Sieger  
Philly Emerging Tech 2011

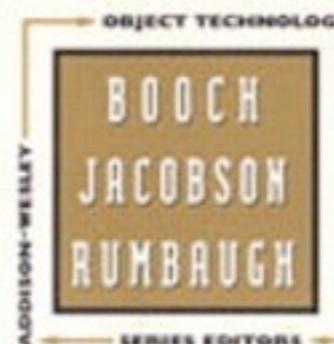
# REFACTORING

## IMPROVING THE DESIGN OF EXISTING CODE

MARTIN FOWLER

With Contributions by Kent Beck, John Brant,  
William Opdyke, and Don Roberts

Foreword by Erich Gamma  
Object Technology International Inc.



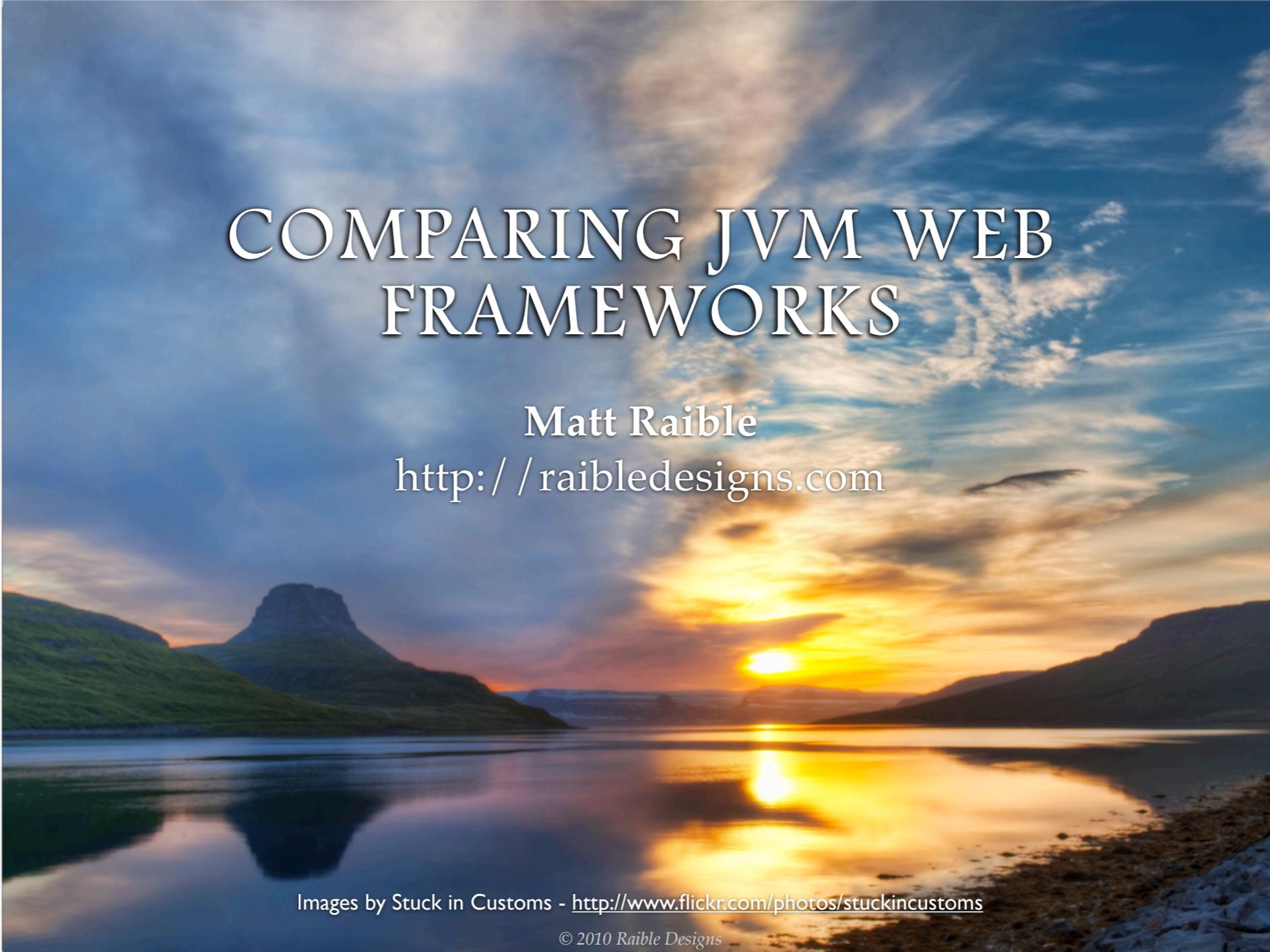


# Introduce Language



# **Extract Rails Controller**

# Rails...for Java?



COMPARING JVM WEB  
FRAMEWORKS

Matt Raible  
<http://raibledesigns.com>

Images by Stuck in Customs - <http://www.flickr.com/photos/stuckincustoms>

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**<http://j.mp/raible-jvm-frameworks>**

# JRuby 1.6

largest release to date!

ruby 1.9.2 • c-ext • perf • dynopt • java

# Enterprise Software

long-running projects  
with legacy codebases

# **Sagrada Família, Barcelona, Spain**





nativity  
facade



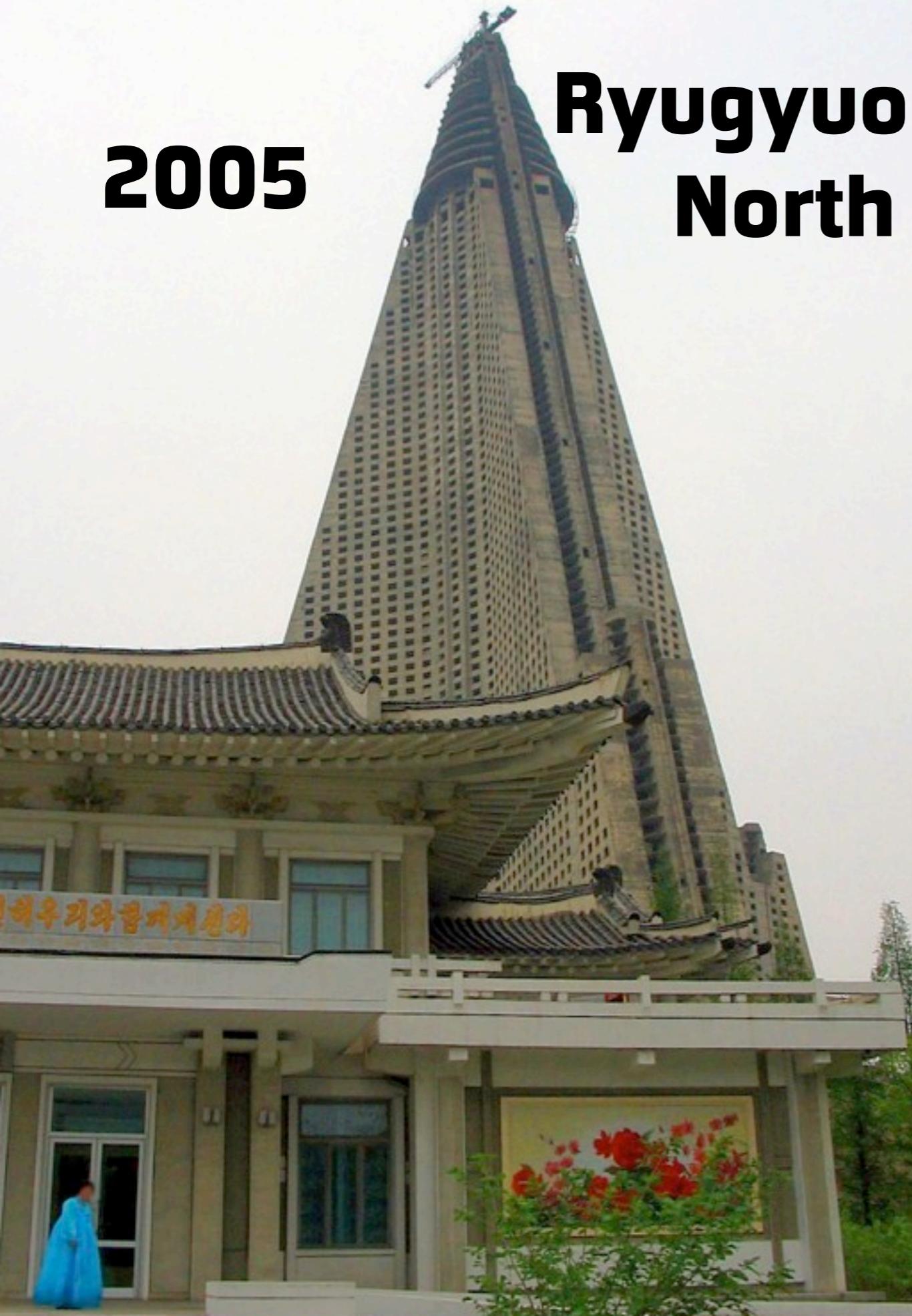
passion  
facade



scaffolded interior



**2005**



# Ryugyong Hotel, North Korea

**2010**

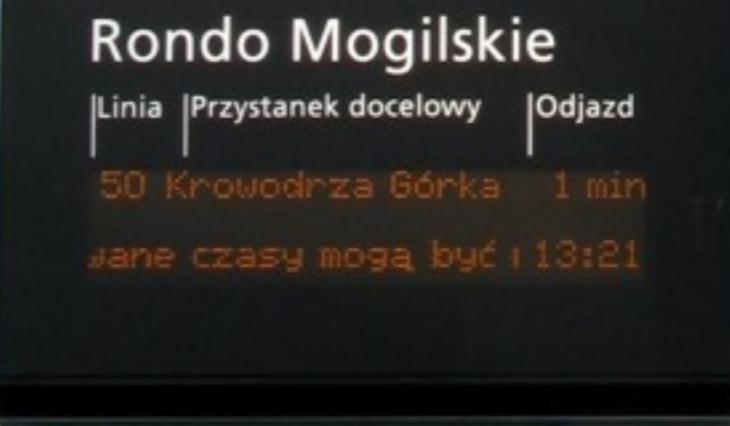




# seismic retrofit



# Szkieletor, Kraków, Poland



TEMAS

Metaphor	Use Ruby, JRuby, and Rails to...
<b>Sagrada Familia</b>	<ul style="list-style-type: none"><li>• Build new facade faster</li><li>• Scaffolding during refactoring</li></ul>
<b>Ryugyong Hotel</b>	<ul style="list-style-type: none"><li>• Revive a project with a new face</li></ul>
<b>Seismic retrofit</b>	<ul style="list-style-type: none"><li>• Reinforce business rules with a DSL</li><li>• Harden security</li></ul>
<b>Szkieletor</b>	<ul style="list-style-type: none"><li>• Find novel uses for abandoned code</li></ul>

**[https://github.com/  
nicksieger/  
refactoring-to-rails](https://github.com/nicksieger/refactoring-to-rails)**

# Prerequisites

JDK • Maven • JRuby • Git

# Progression





# Small

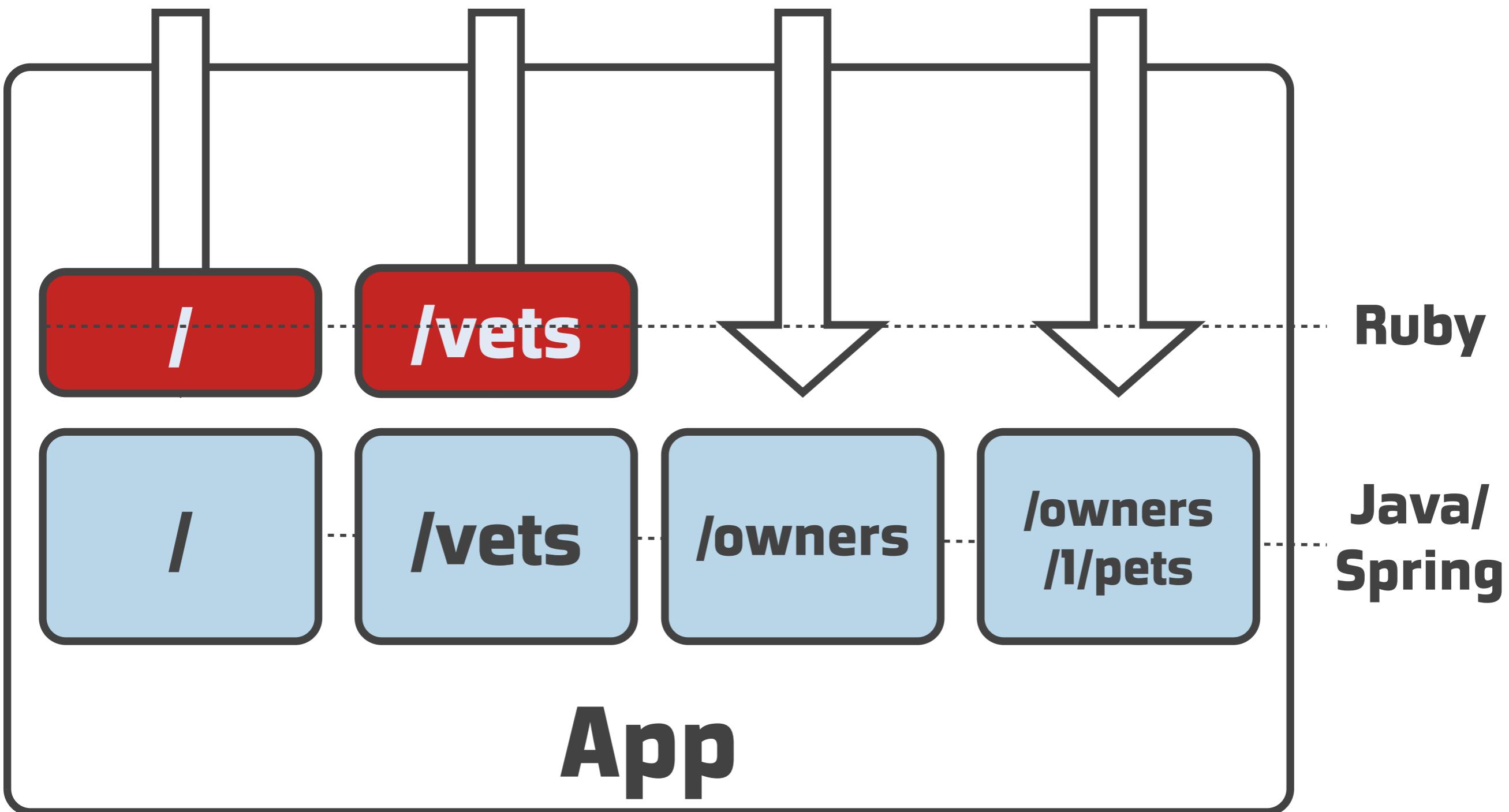
Give Ruby a foot in the door



# Medium

## Layer on the Rails

# Requests





# Large

## Full-on Rails development

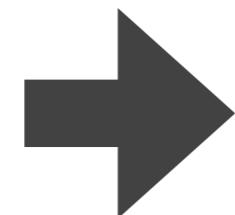


# **TIMTOWTDI**

(there is more than one way to do it)

# LinkedIn

SiteMesh



JSP

+

Sinatra

```
<html>
<head>
</head>
<body>
  ###
</body>
</html>

<div>
<h1>App</h1>
</div>
```

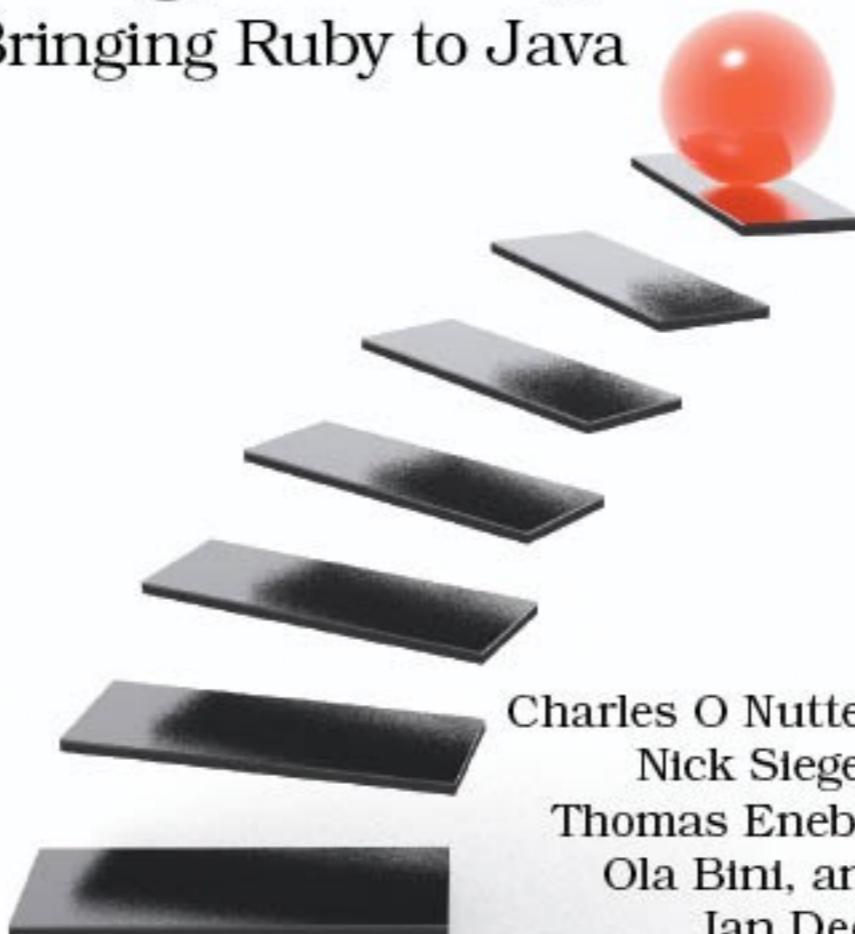


**[http://j.mp/  
jruby-meetup-videos](http://j.mp/jruby-meetup-videos)**

The  
Pragmatic  
Programmers

# Using JRuby

## Bringing Ruby to Java



Charles O Nutter,  
Nick Sieger,  
Thomas Enebo,  
Ola Bini, and  
Ian Dees

*Edited by Jacquelyn Carter*

The Facets of Ruby Series



**Nick Sieger**  
**[nsieger@engineyard.com](mailto:nsieger@engineyard.com)**

**Thank you!**

# Images

[http://en.wikipedia.org/wiki/File:Sagrada\\_Familia\\_01.jpg](http://en.wikipedia.org/wiki/File:Sagrada_Familia_01.jpg)

<http://www.flickr.com/photos/koocheekoo/38407225/>

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<http://www.flickr.com/photos/bazylek/3194294047/>