



RAILS HYDRA

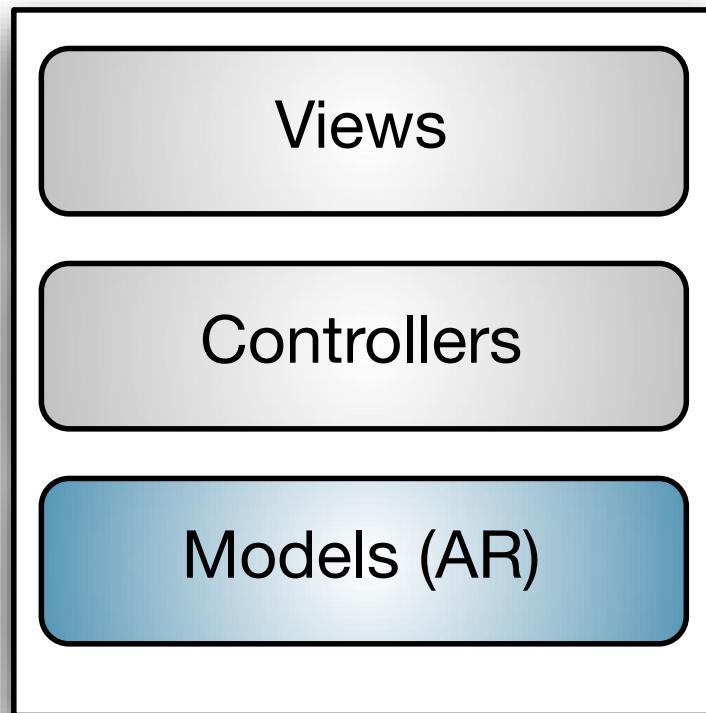
Synthesizing an Application out of
Multiple Rails Codebases

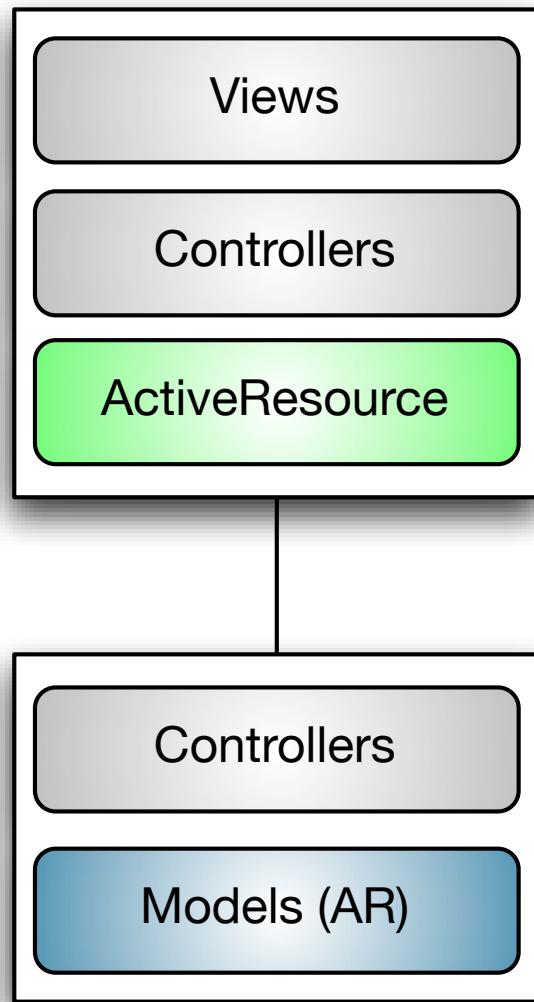
RailsConf Europe 2007

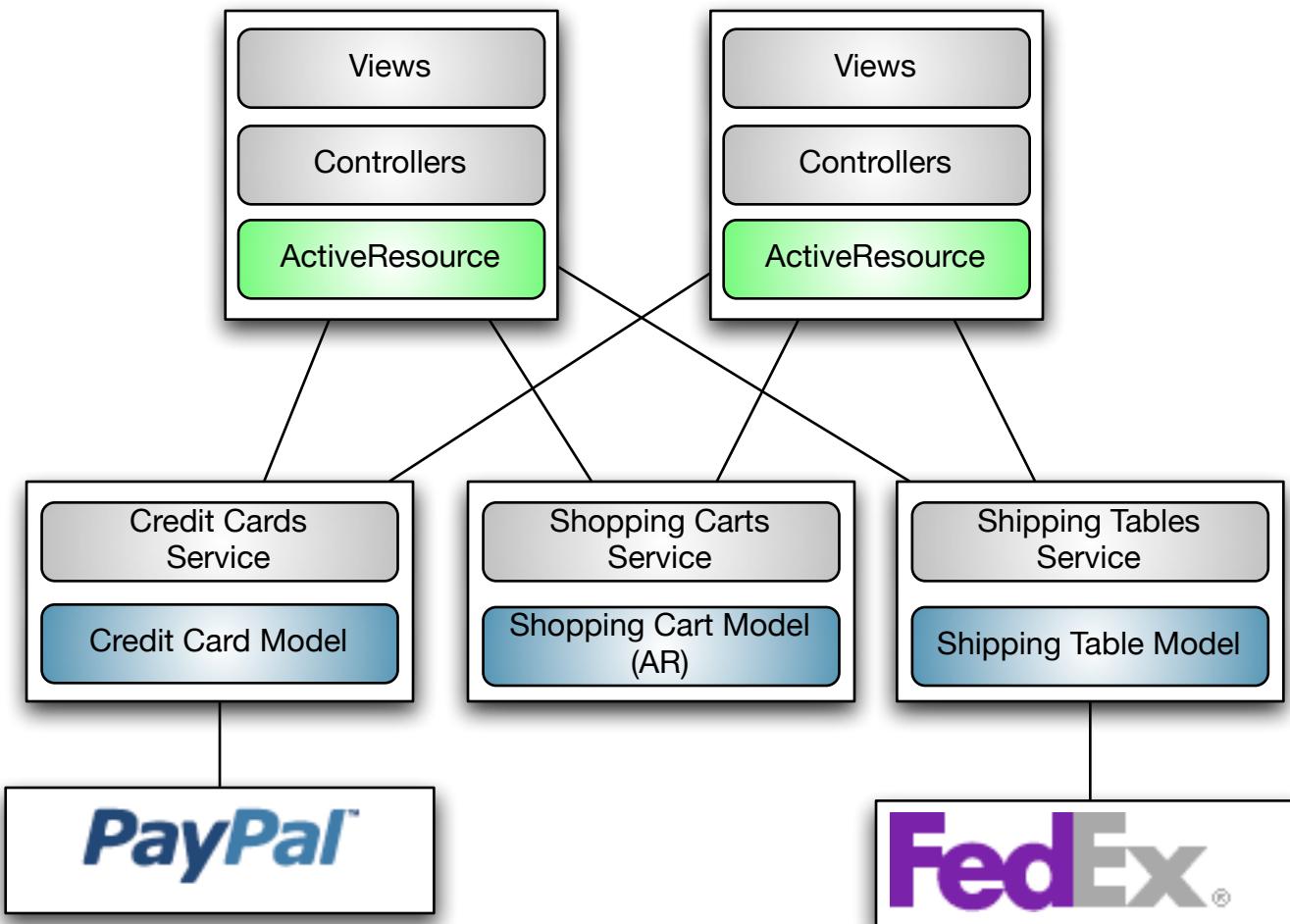
Craig McClanahan
Nick Sieger
Sun Microsystems, Inc.



Huh?







Advantages

- Internal mashups
- Flexible deployment
- Reduce coupling
- Runtime code reuse
- Talk to non-Rails services (XML...)
- REST + Etags & cache-control = Caching
 - > (HTTP reverse proxies)

Uniform Interface

The image shows a presentation slide with a black background. In the top right corner, there is a white logo for '37signals' featuring a stylized '7'. Below the logo, the word '37signals' is written in a white sans-serif font. In the center of the slide, the title 'Discovering a **world** of Resources on Rails' is displayed. 'Discovering a **world** of' is in a smaller, white, sans-serif font. 'Resources on Rails' is in a large, bold, red, sans-serif font. Below the title, the author's name 'David Heinemeier Hansson' is written in a yellow, sans-serif font. In the bottom right corner, there is a small red square icon containing a white 'Rails' logo, which consists of a stylized 'D' shape above the word 'RAILS'.

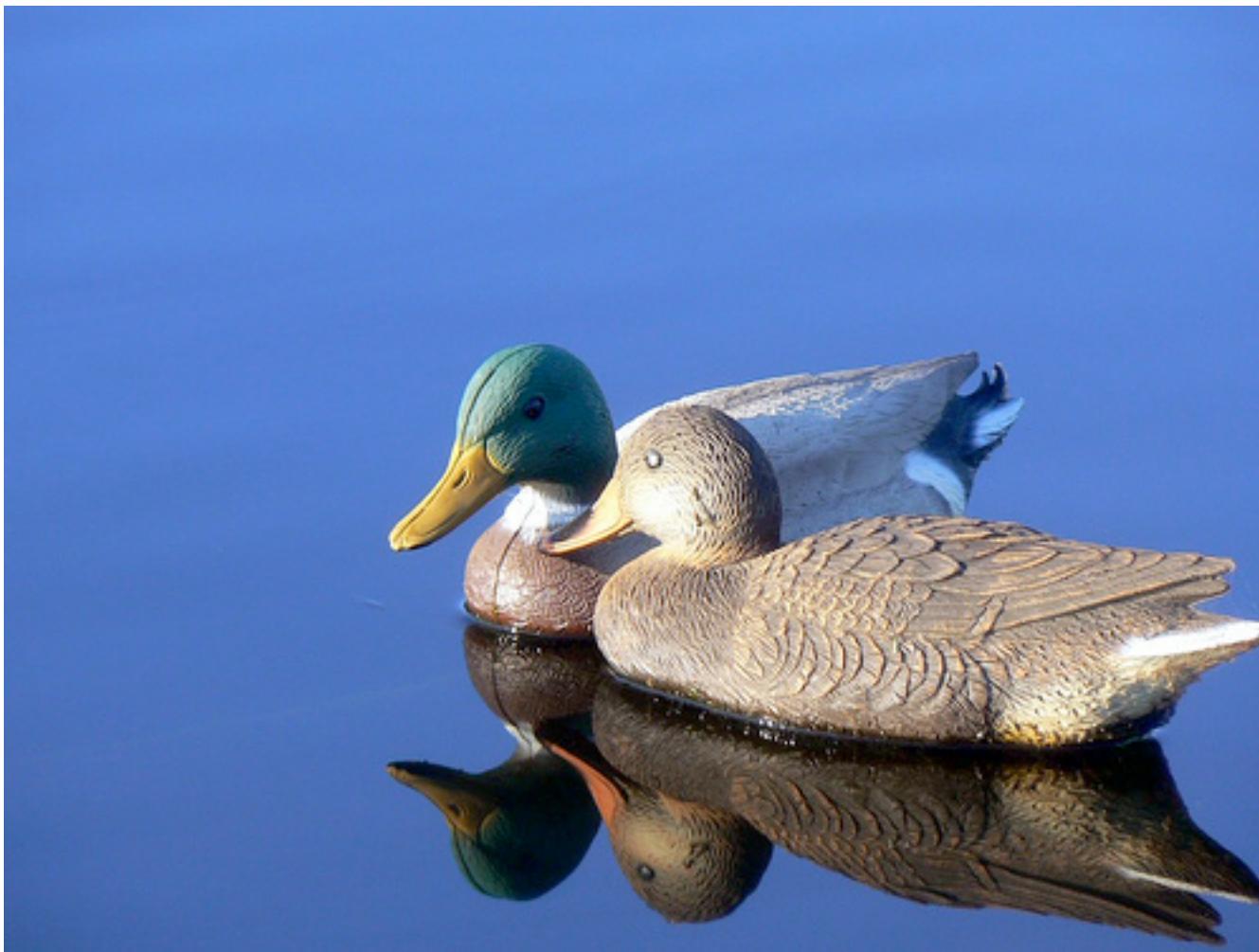
Discovering a **world** of
Resources on Rails

David Heinemeier Hansson

RAILS

<http://media.rubyonrails.org/presentations/worldofresources.pdf>

Duck Typed Models



<http://flickr.com/photos/loramir/203476026/>

ActiveResource

```
class Model < ActiveResource::Base
  self.site = "http://localhost:3000"
end
```

vs

```
class Model < ActiveRecord::Base
end
```

```
$ script/generate scaffold posts
...
$ egrep "(Post|@post)\." app/controllers/posts_controller.rb
5:   @posts = Post.find(:all)
9:     format.xml { render :xml => @posts.to_xml }
16:   @post = Post.find(params[:id])
20:     format.xml { render :xml => @post.to_xml }
26:   @post = Post.new
31:   @post = Post.find(params[:id])
37:   @post = Post.new(params[:post])
40:   if @post.save
46:     format.xml { render :xml => @post.errors.to_xml }
54:   @post = Post.find(params[:id])
57:   if @post.update_attributes(params[:post])
63:     format.xml { render :xml => @post.errors.to_xml }
71:   @post = Post.find(params[:id])
72:   @post.destroy
```

```
Post.new (Post.create)
Post.find
@post.save
@post.update_attributes
@post.errors
@post.destroy
```

Demos

- 3-tier resource with ActiveResource + Scaffold
- Change scaffold controller to make_resourceful
- ActiveAtomResource?
- Optimizing service chatter

Demos

```
rails app
```

```
rails web
```

```
require 'active_resource'
```

```
require 'make_resourceful'
```

```
require 'atom/feed'
```

```
require 'rails_utils'
```

Lessons Learned

- ActiveResource Considerations
 - > Presumes server serializes data structures the Rails way
 - > Presumes XML data formats
 - > Chatty HTTP communication
 - > New model instances don't know the valid attributes without getting loaded

Lessons Learned

- Scaling Considerations
 - > Keep view-app tier communications stateless!
 - > Cache where and when necessary
- Deployment Considerations
 - > .war deployments to Glassfish instead of Mongrels



