



# RAILS HYDRA

Synthesizing an Application out of  
Multiple Rails Codebases

RailsConf Europe 2007

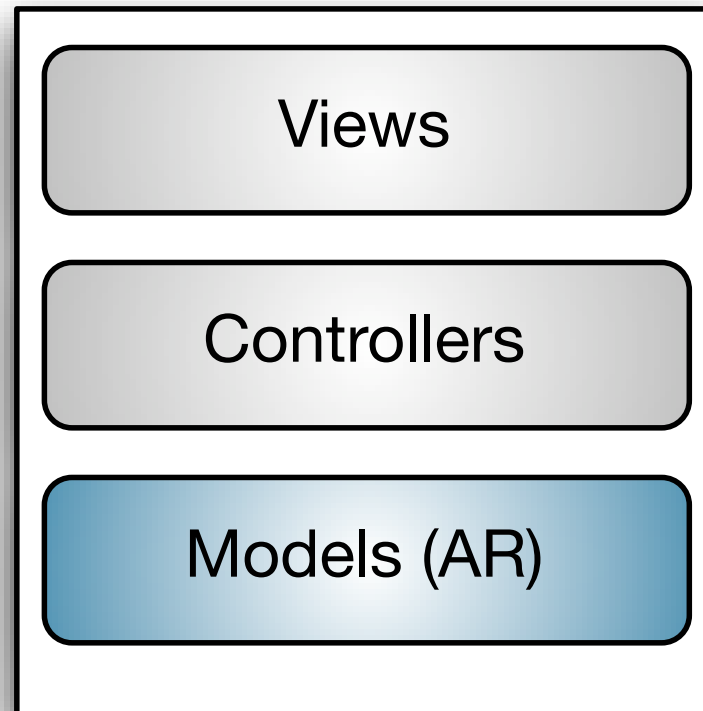
Craig McClanahan

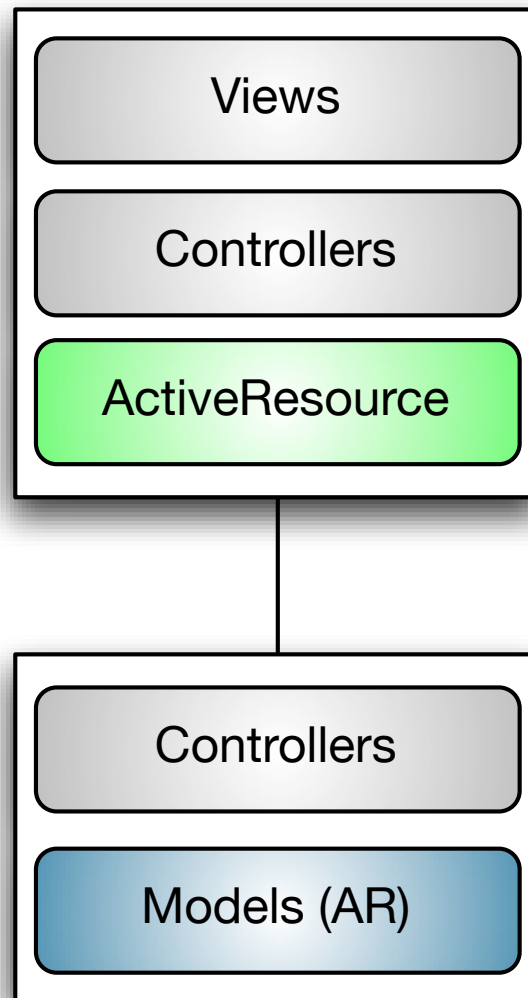
Nick Sieger

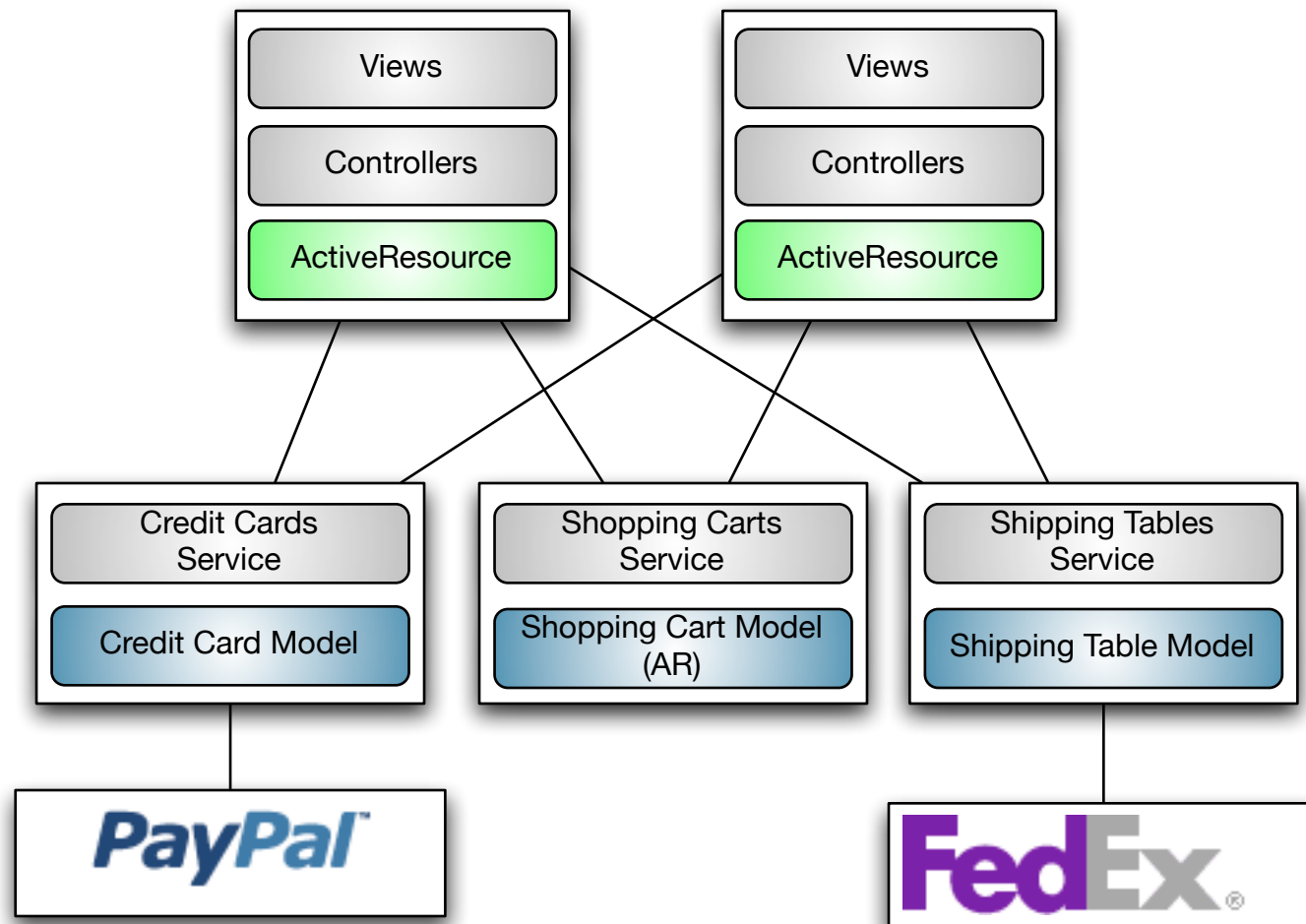
Sun Microsystems, Inc.



# 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



<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

- ActiveSupport 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



