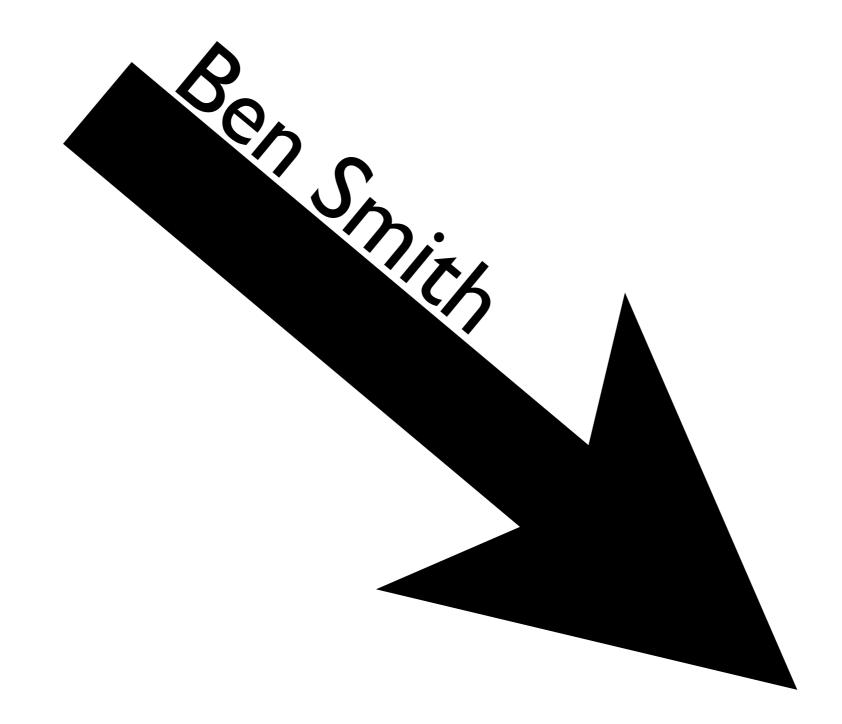
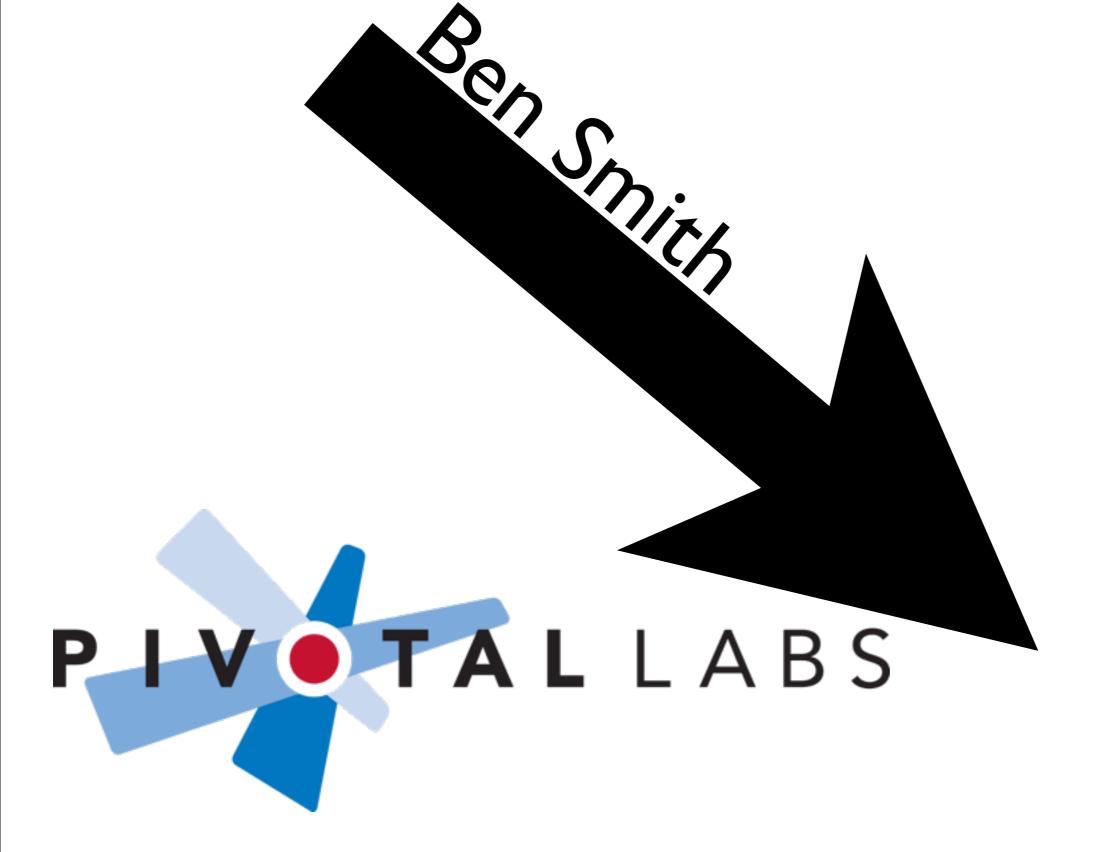
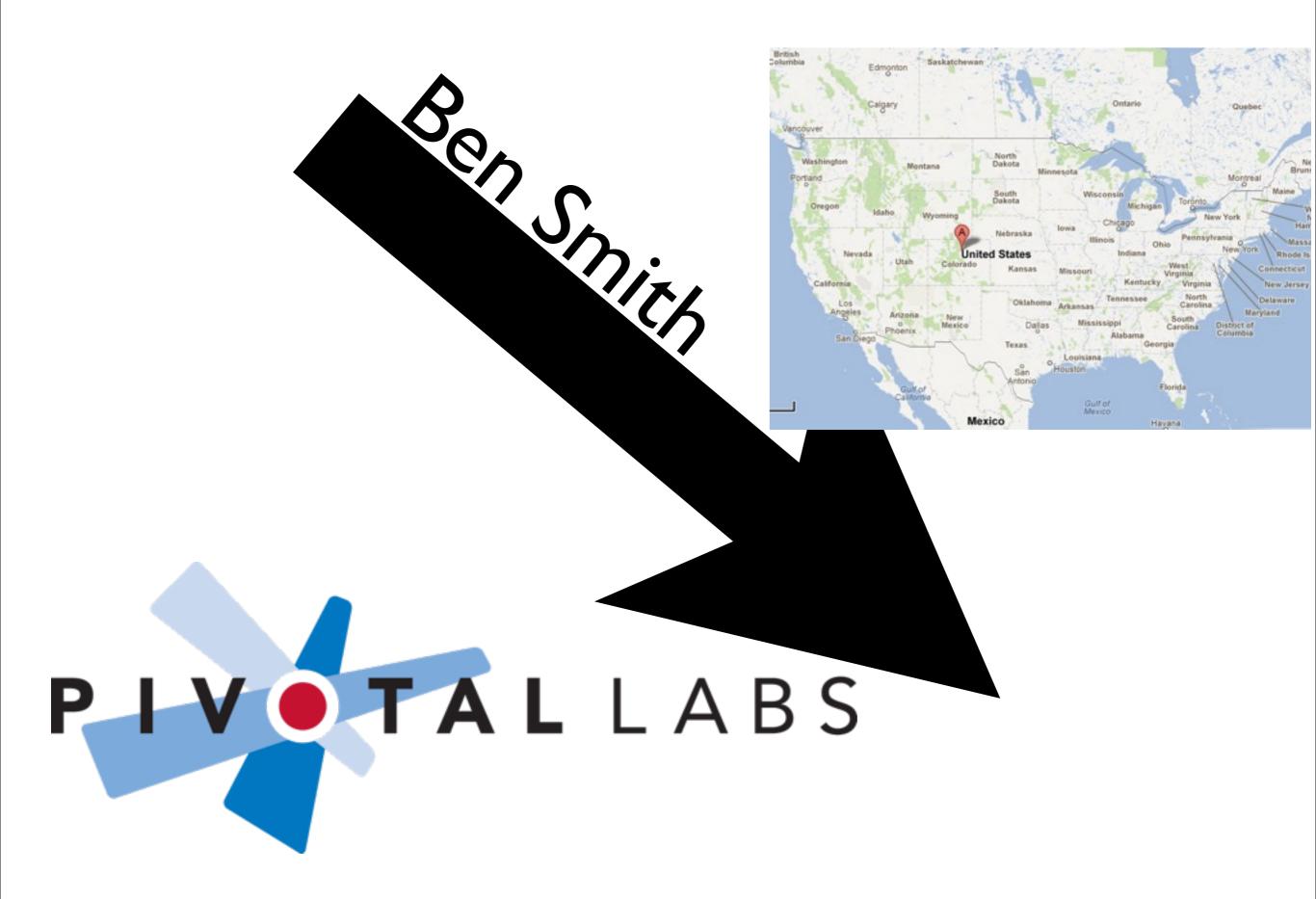
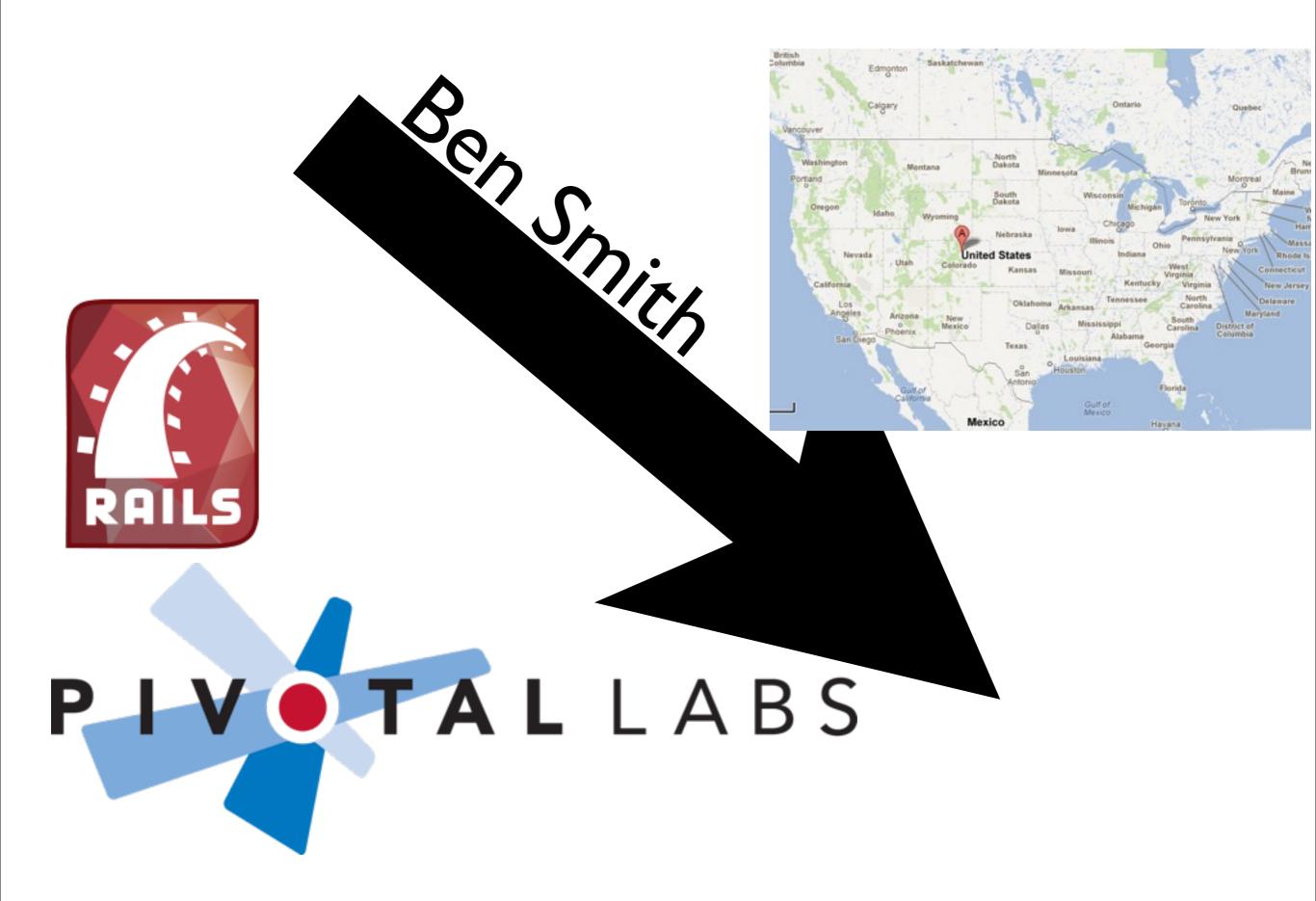
Architecting your Rails app for success!

Benjamin Smith











Architecting your Rails app for success!

Benjamin Smith



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MVC



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once upon a time



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success

long project

big dev team

MISSION CONTROL CENT? 1



Saturday, June 29, 13

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big bang release



success

- long project
- big dev team
- lots of code
- scalable
- big 1st release



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a grain of salt



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success

- long project
- big dev team
- lots of code
- scalable
- big 1st release



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engines

a little background

PIVITALLABS

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the product

- Multimedia content publishing
- A social network
- iOS app for consumers (using JSON API)
- CMS (Rails) for admins



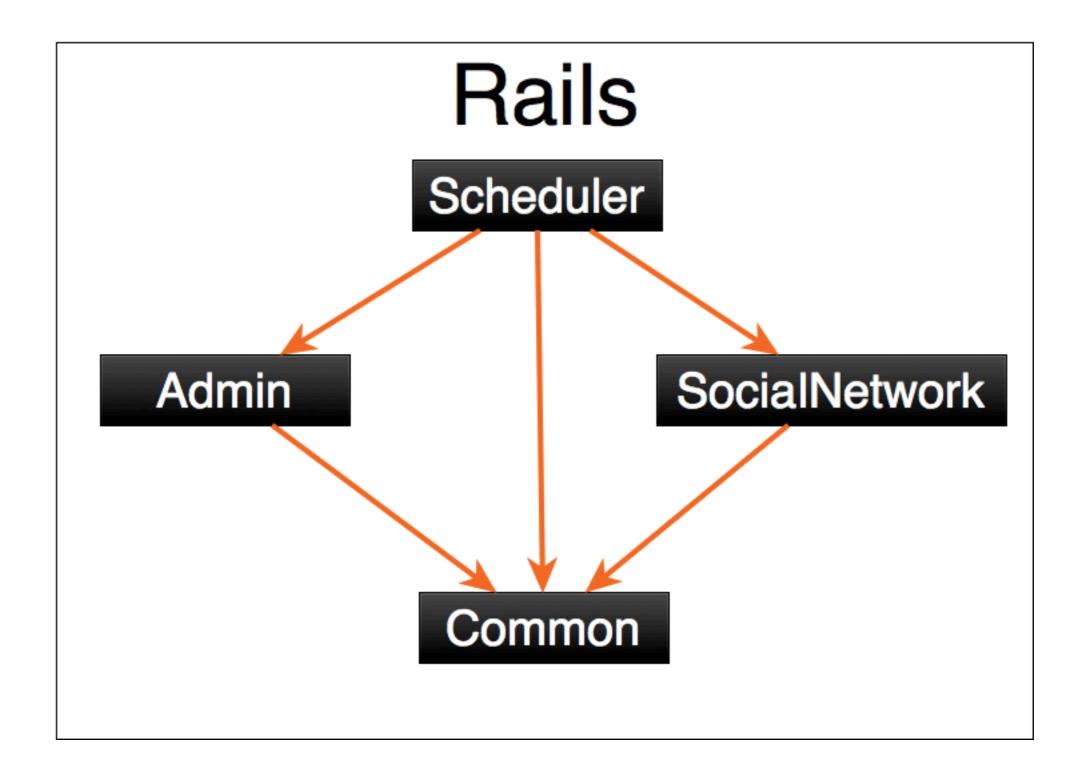
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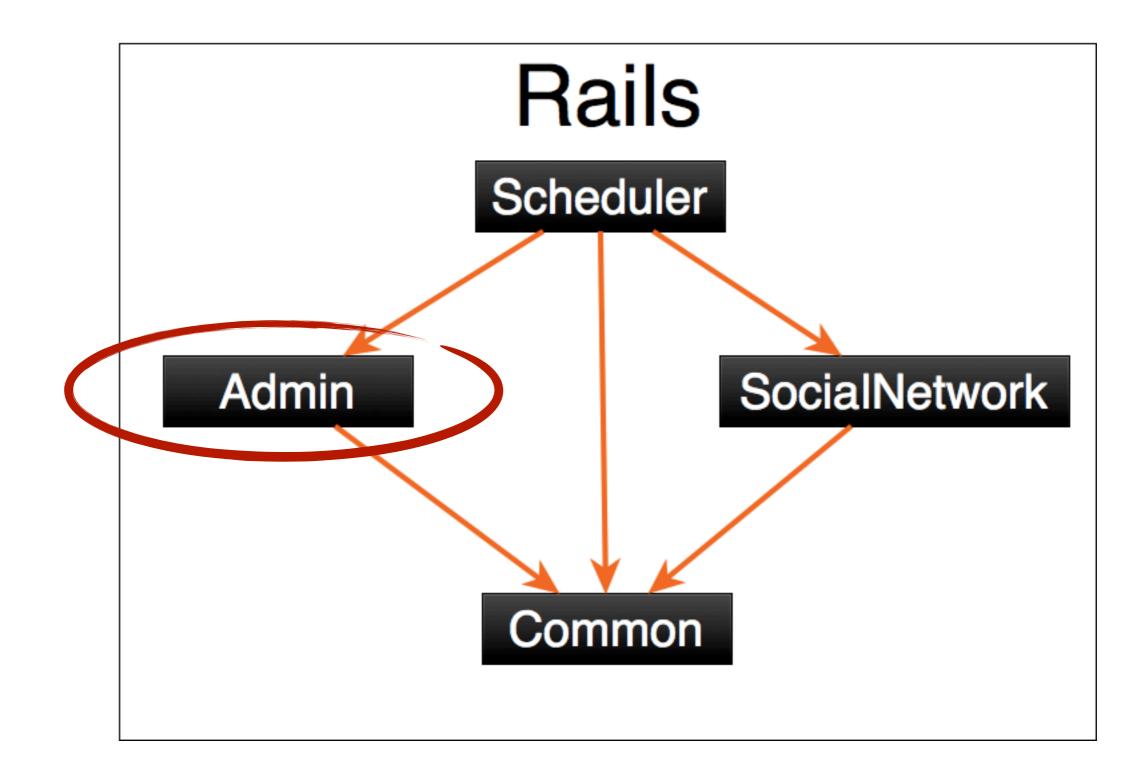
started simple

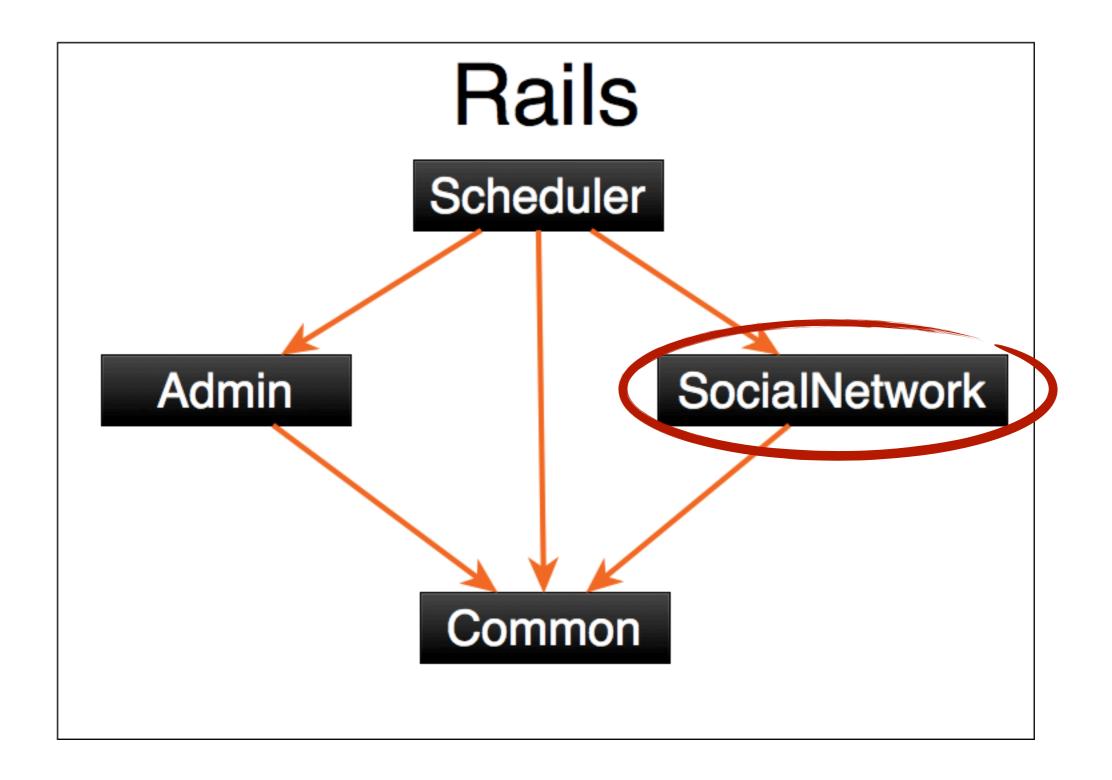


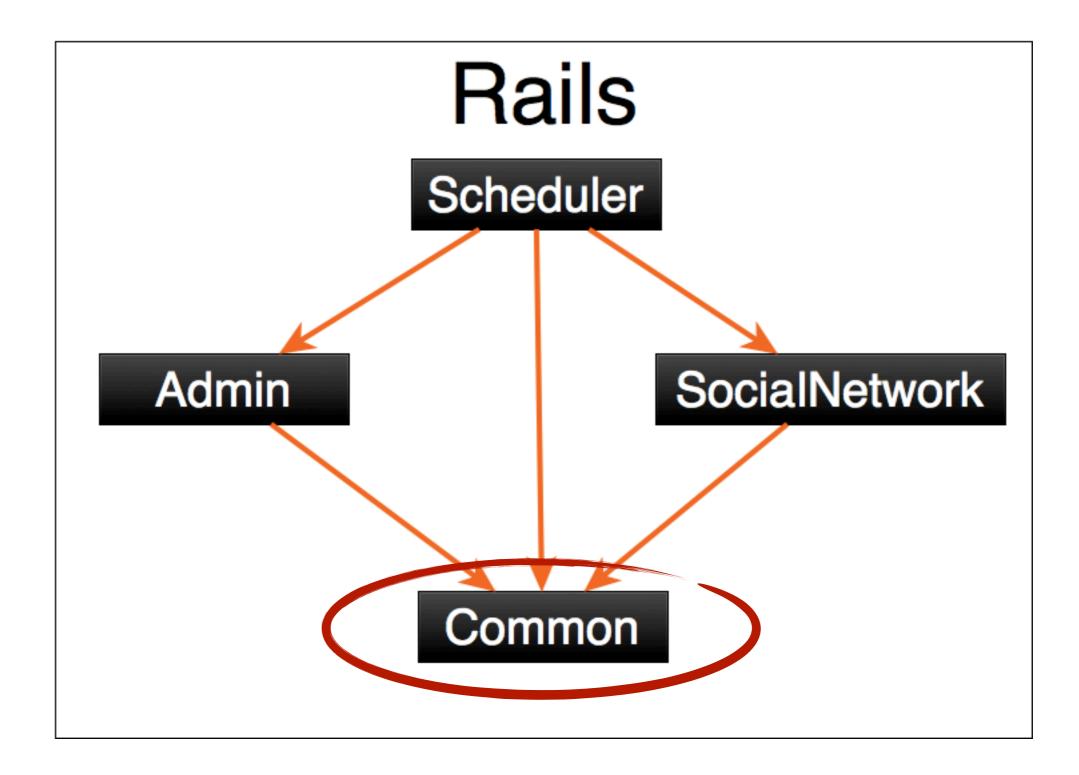


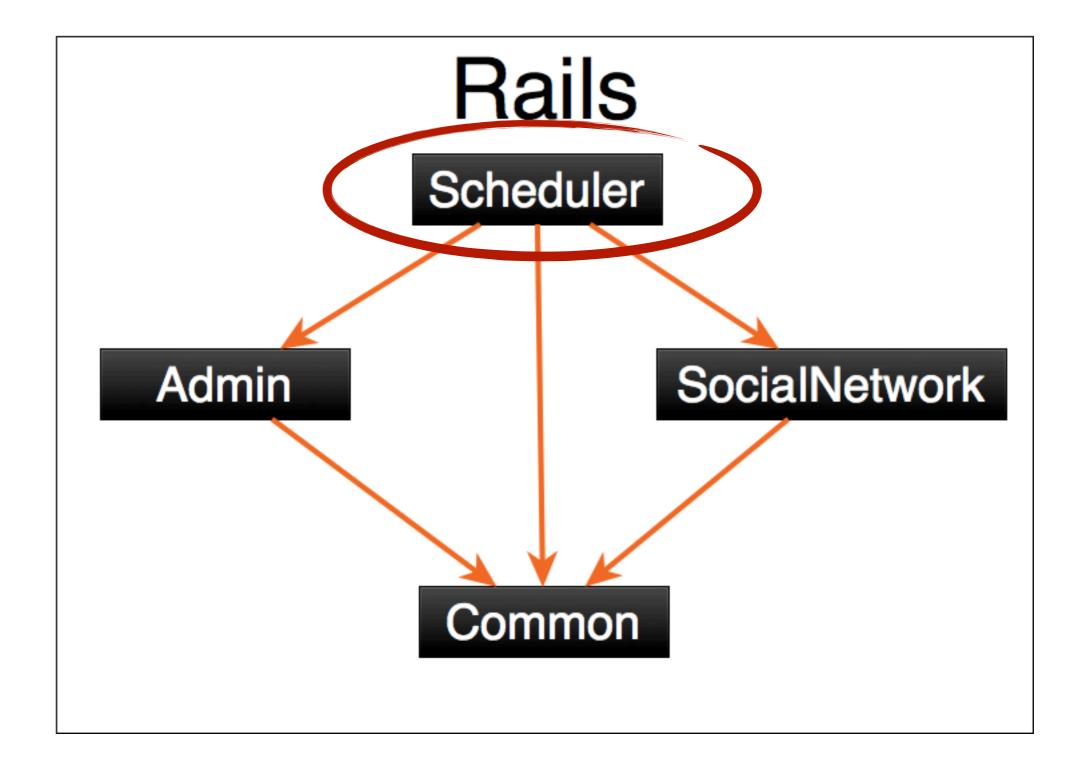
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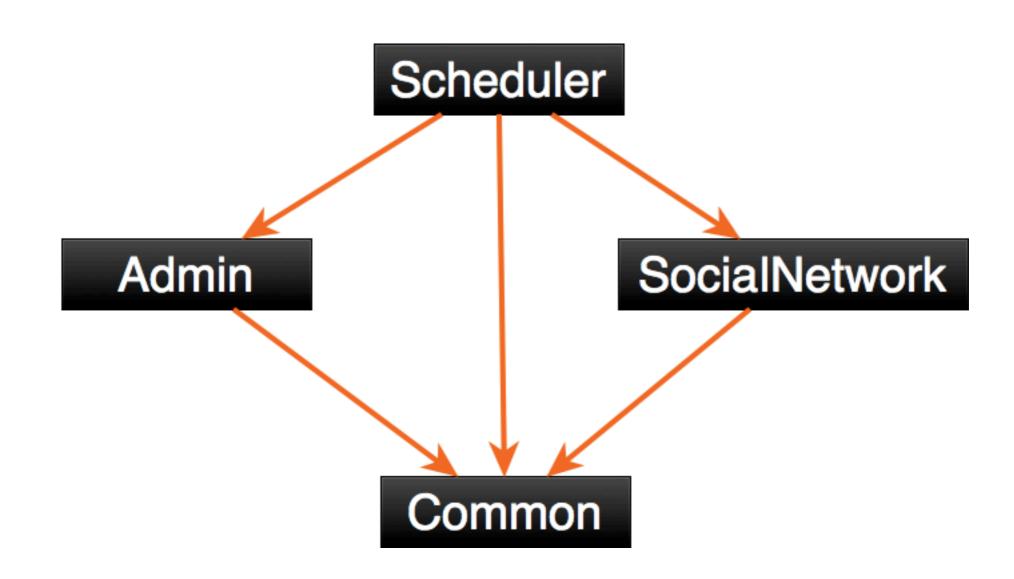


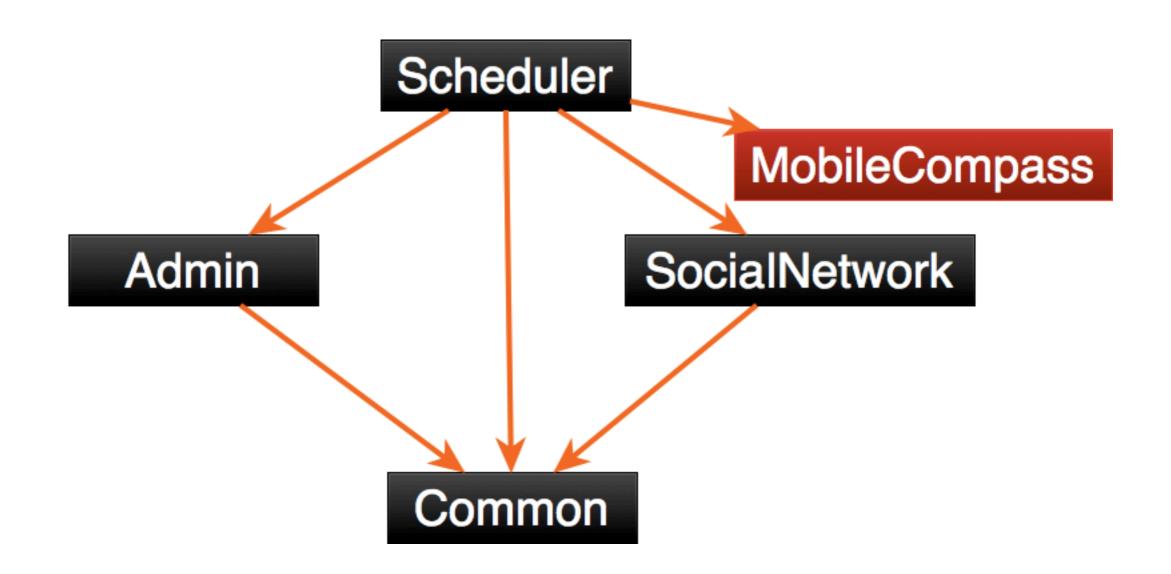


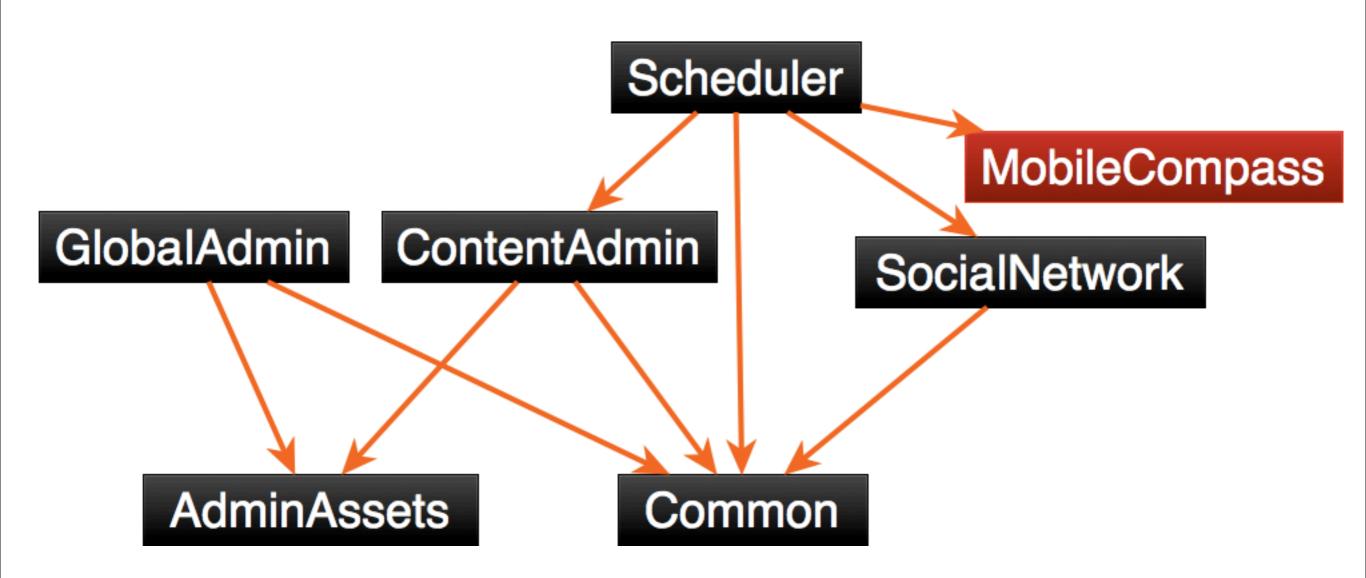


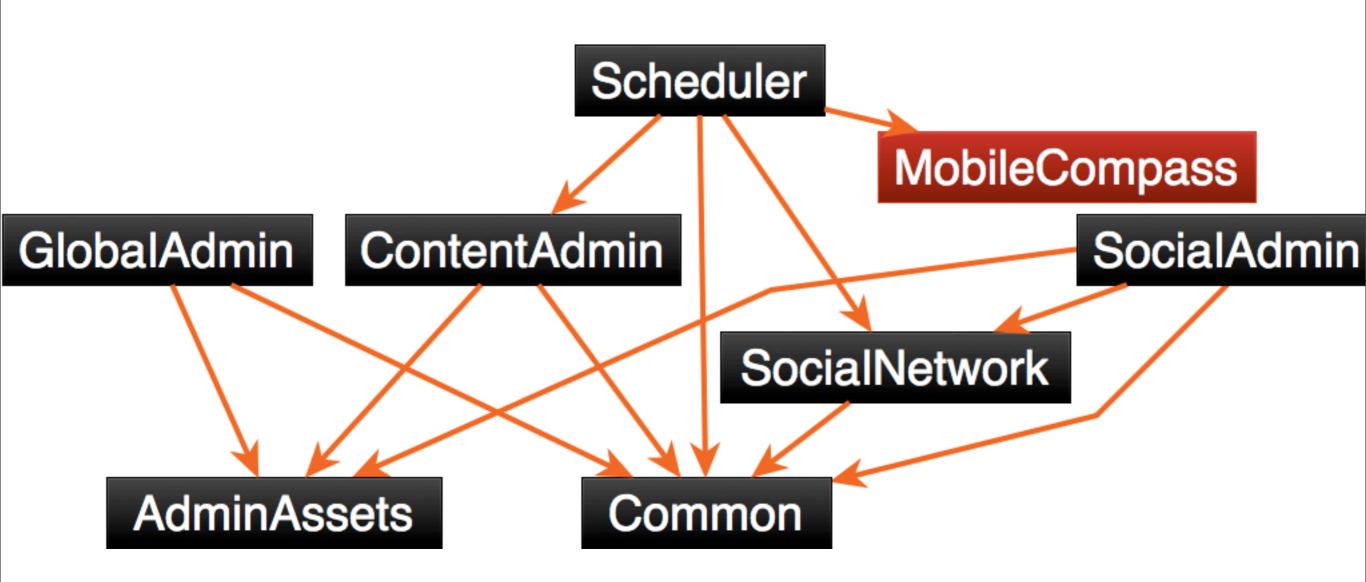






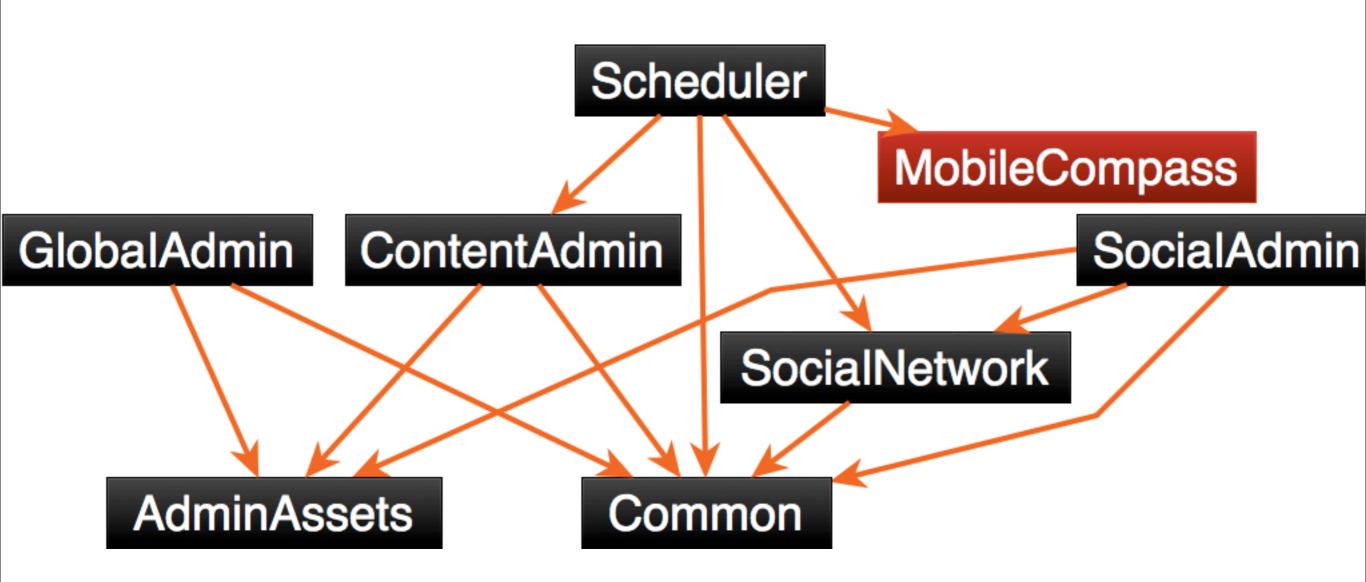






not too bad











Views

Controllers

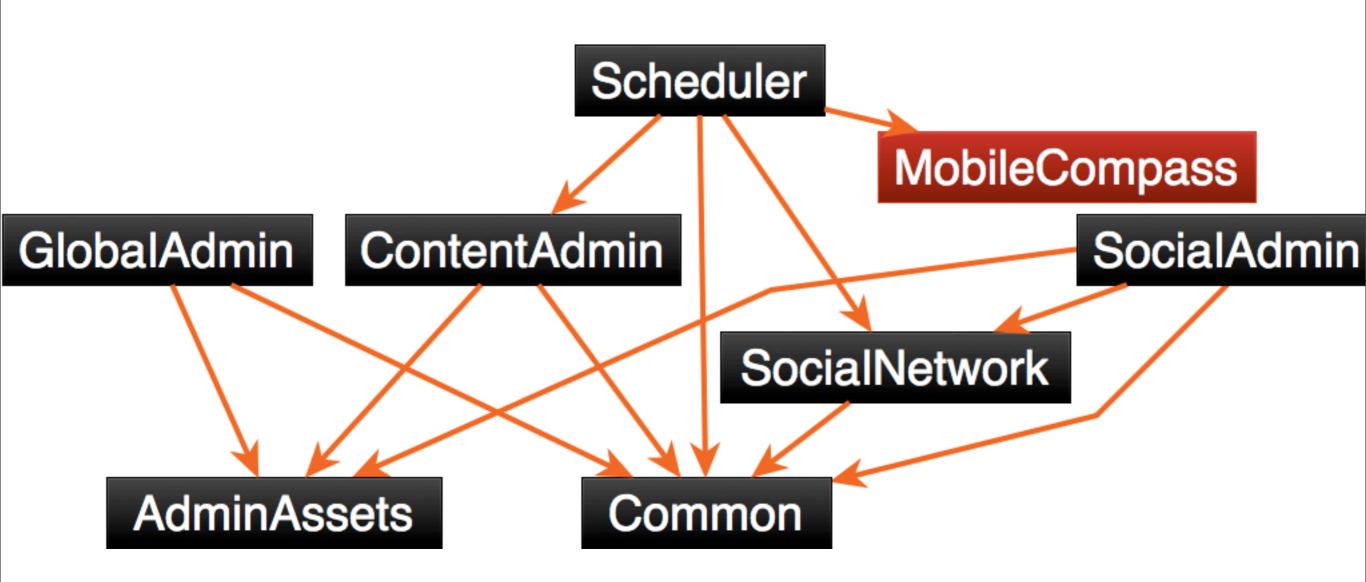
SocialNetwork

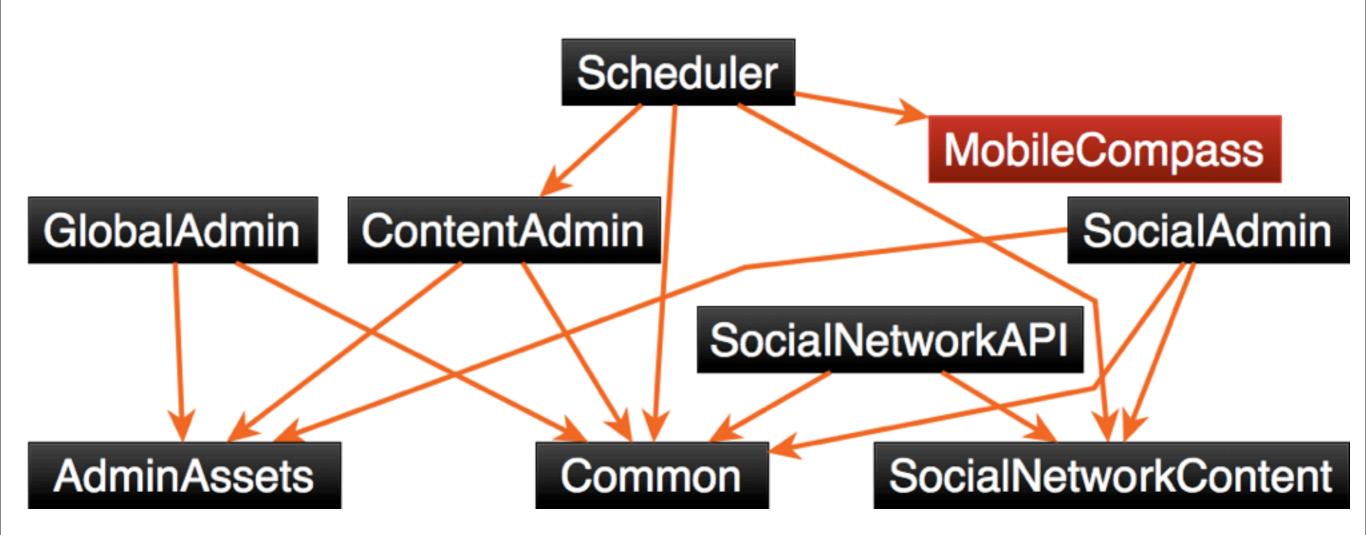
Models

Views

Controllers









Views

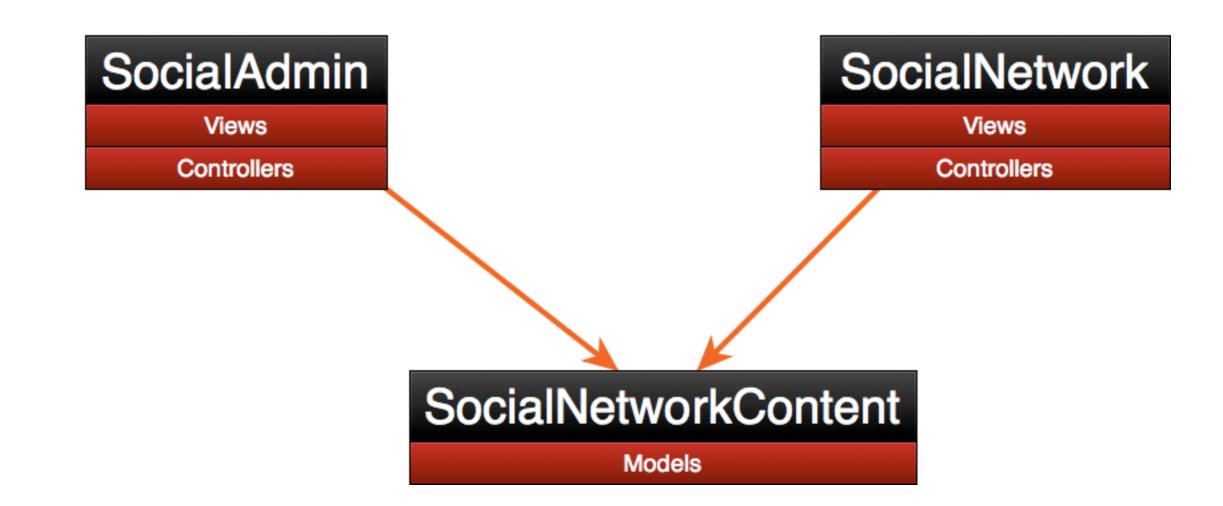
Controllers

SocialNetwork

Models

Views

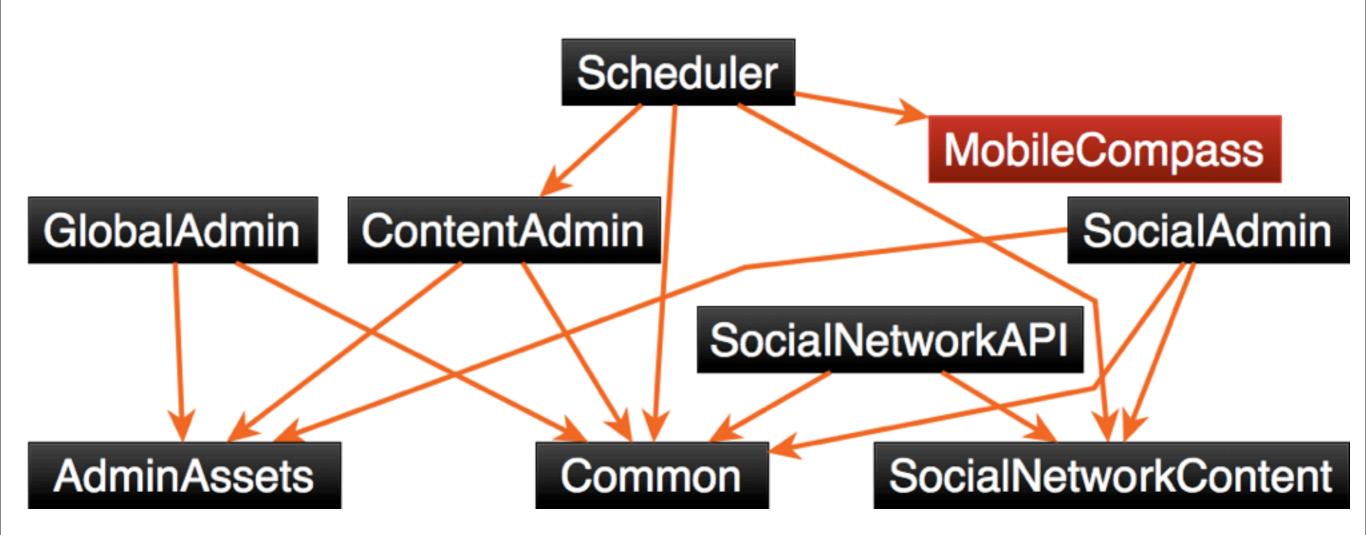
Controllers

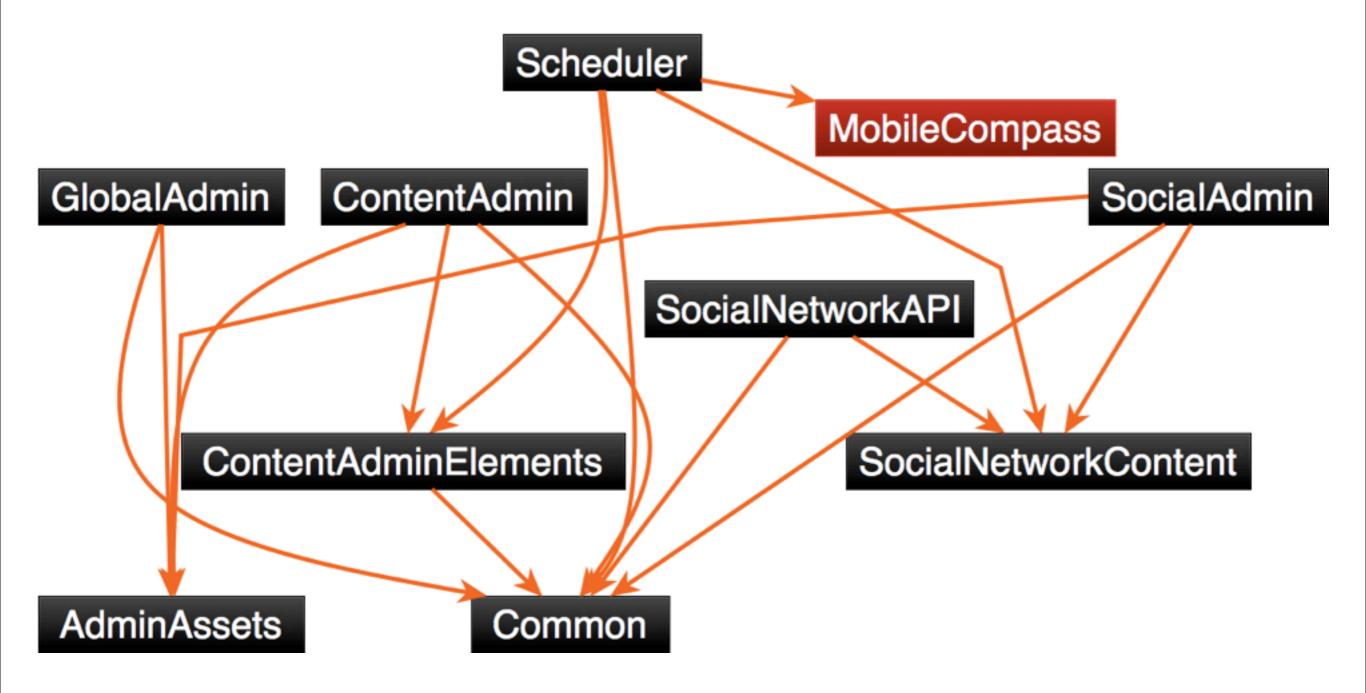


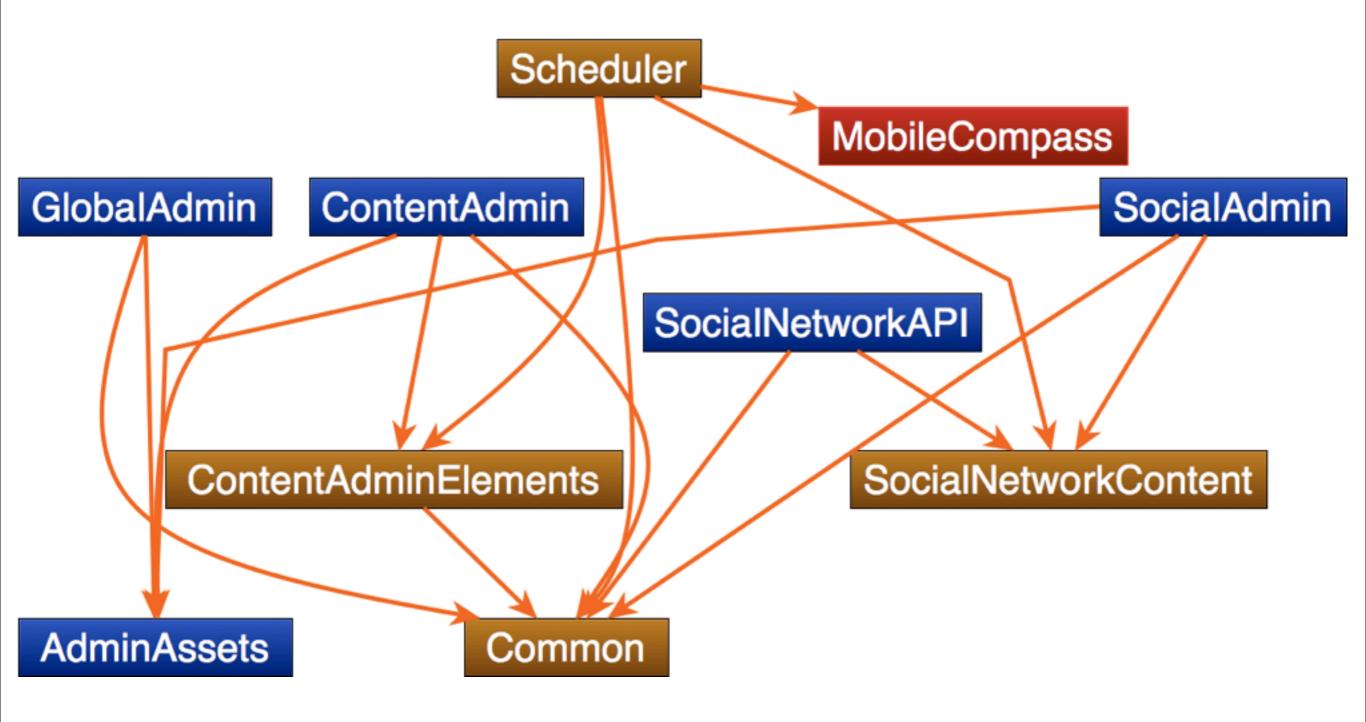
but why stop there?

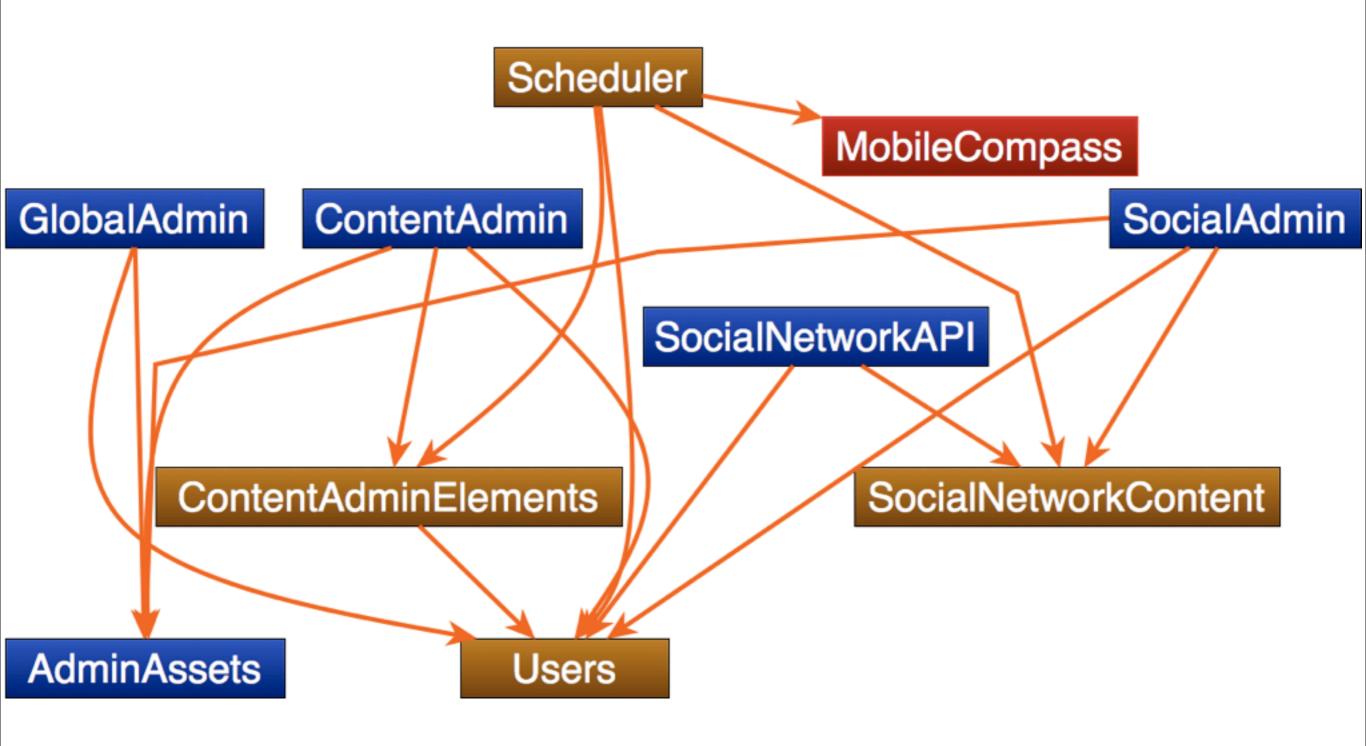


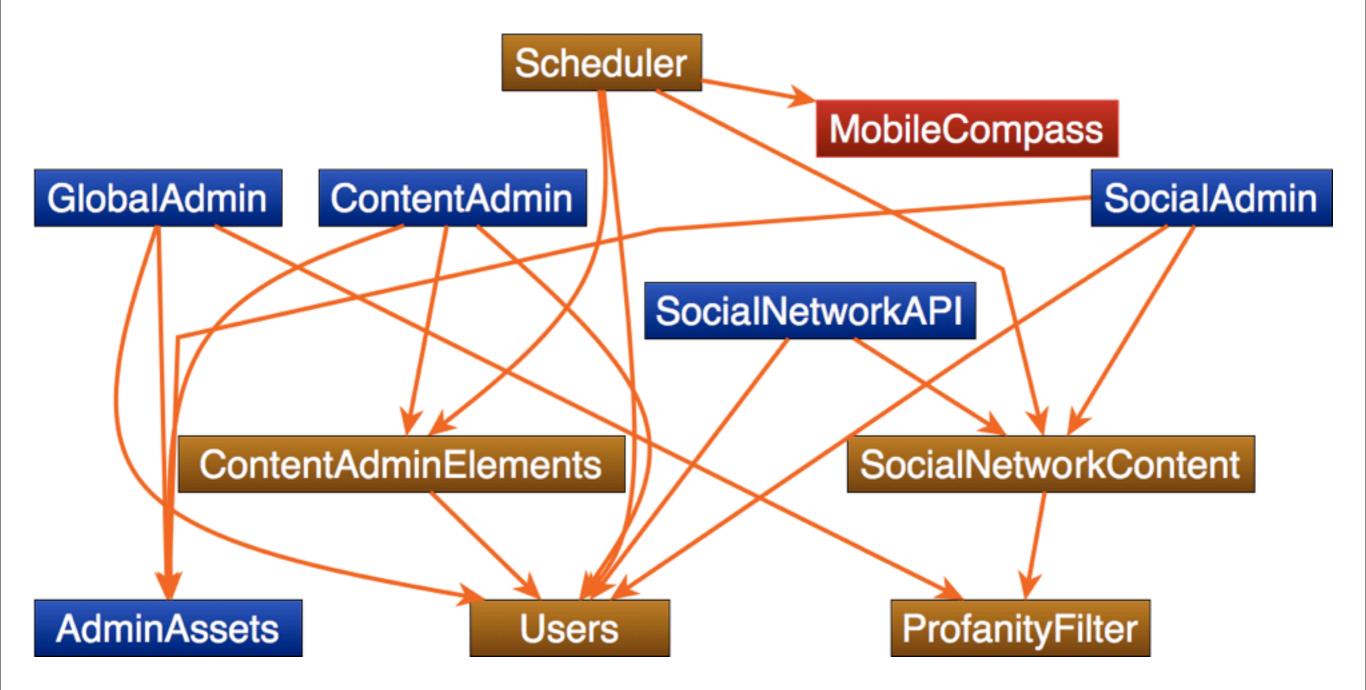
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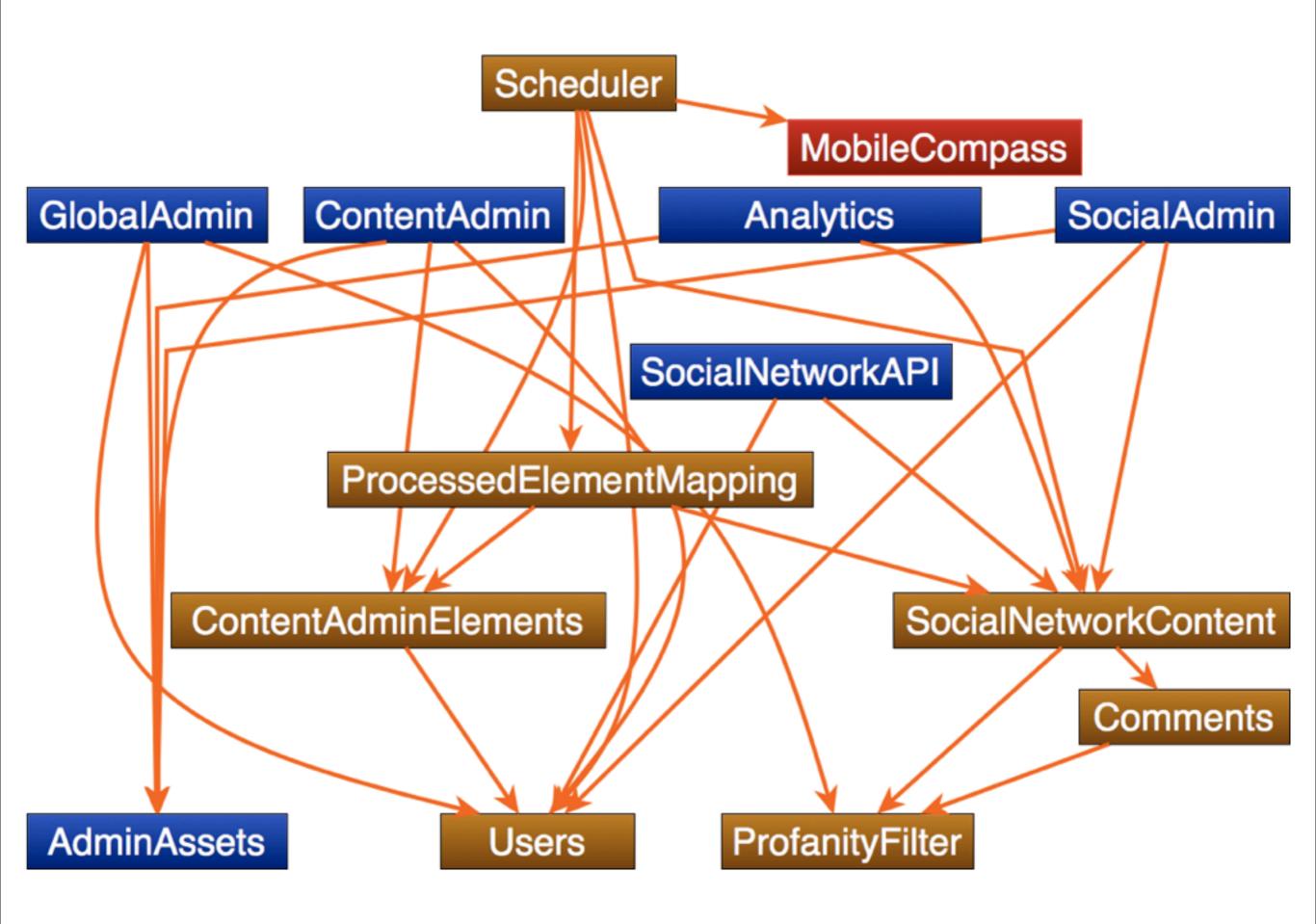


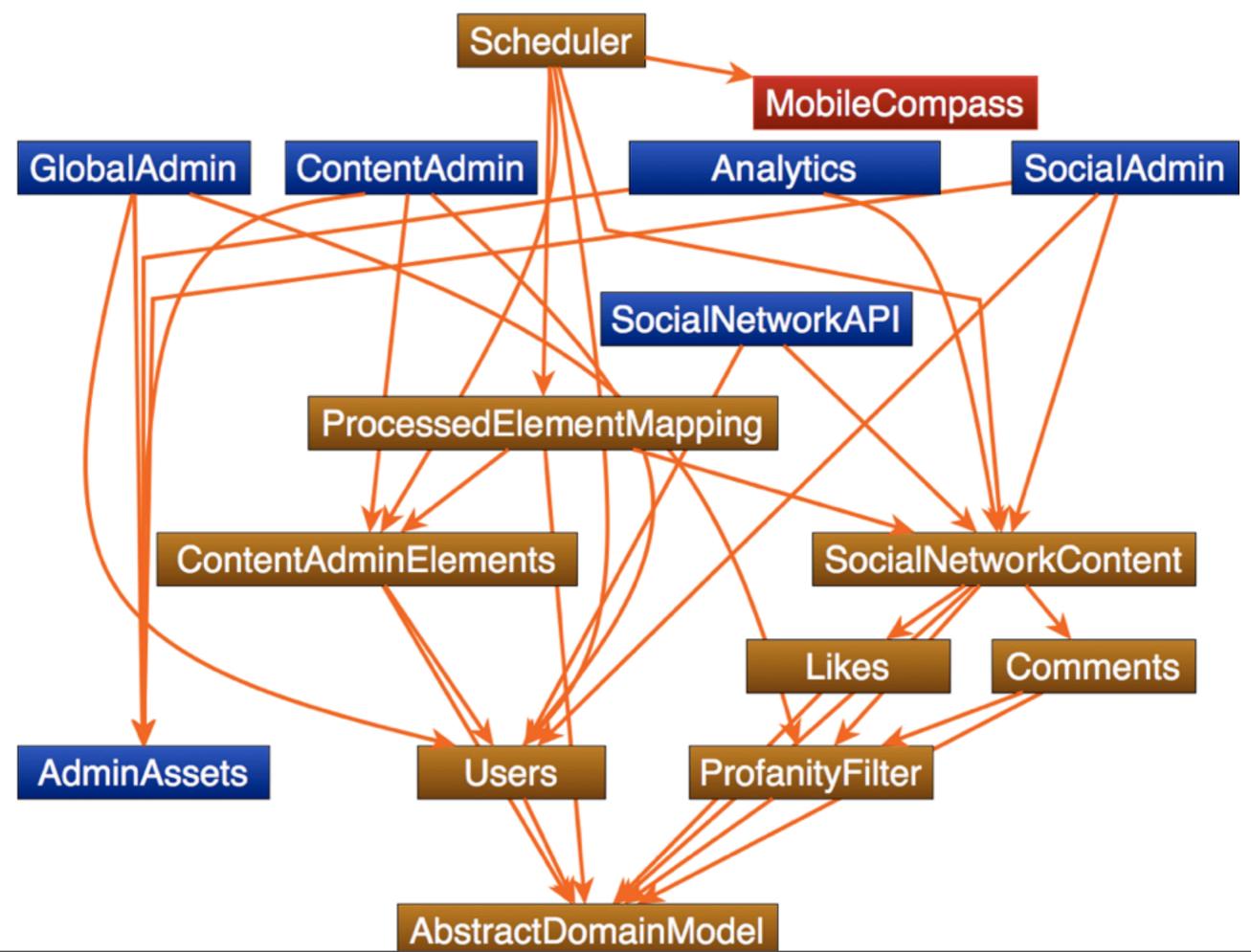












how to get started

rails plugin new engine_name --mountable

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gem "engine_name", path: "path/to/engine_name"



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mount EngineName::Engine => "/engine_name", :as => "engine_name"



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rails plugin new engine_name --mountable

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s/engine_template/new_engine_name/g
s/EngineTemplate/NewEngineName/g

for file in \$(find . -name "*engine_template*")
do

mv \$file `echo \$file | sed s/engine_template/\$1/` done



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bundle gem gem_name



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gem "gem_name", path: "path/to/gem_name"



@benjamin_smith

bundle gem gem_template

s/gem_template/new_gem_name/g s/GemTemplate/NewGemName/g

for file in \$(find . -name "*gem_template*") do mv \$file `echo \$file | sed s/gem_template/\$1/` done



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blog.org

engines the right way

fully contained engines

- all tables namespaced
- migrations
- tests

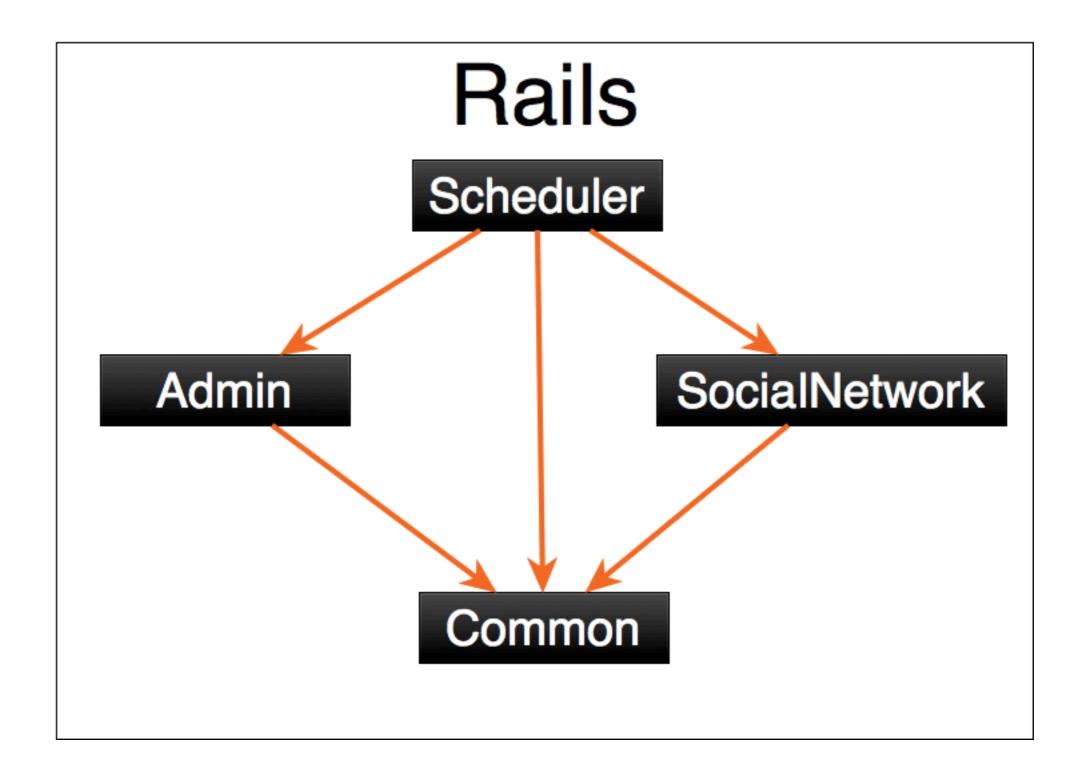
PIVOTALLABS

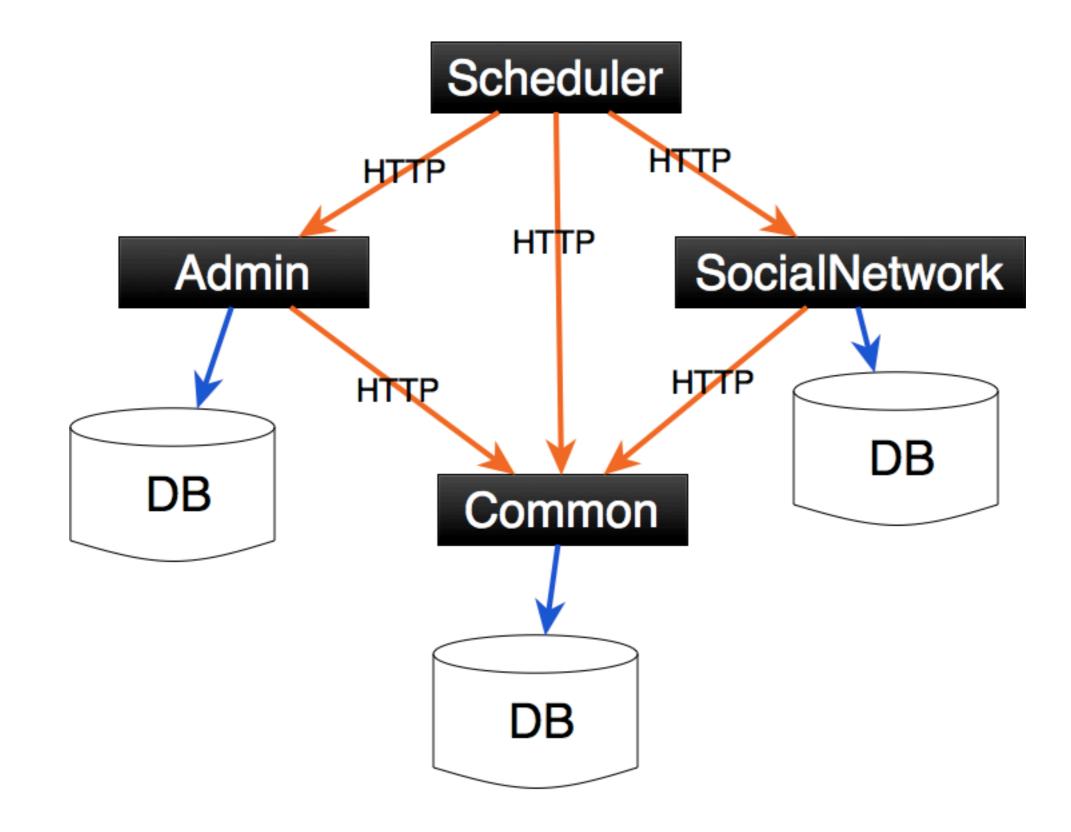
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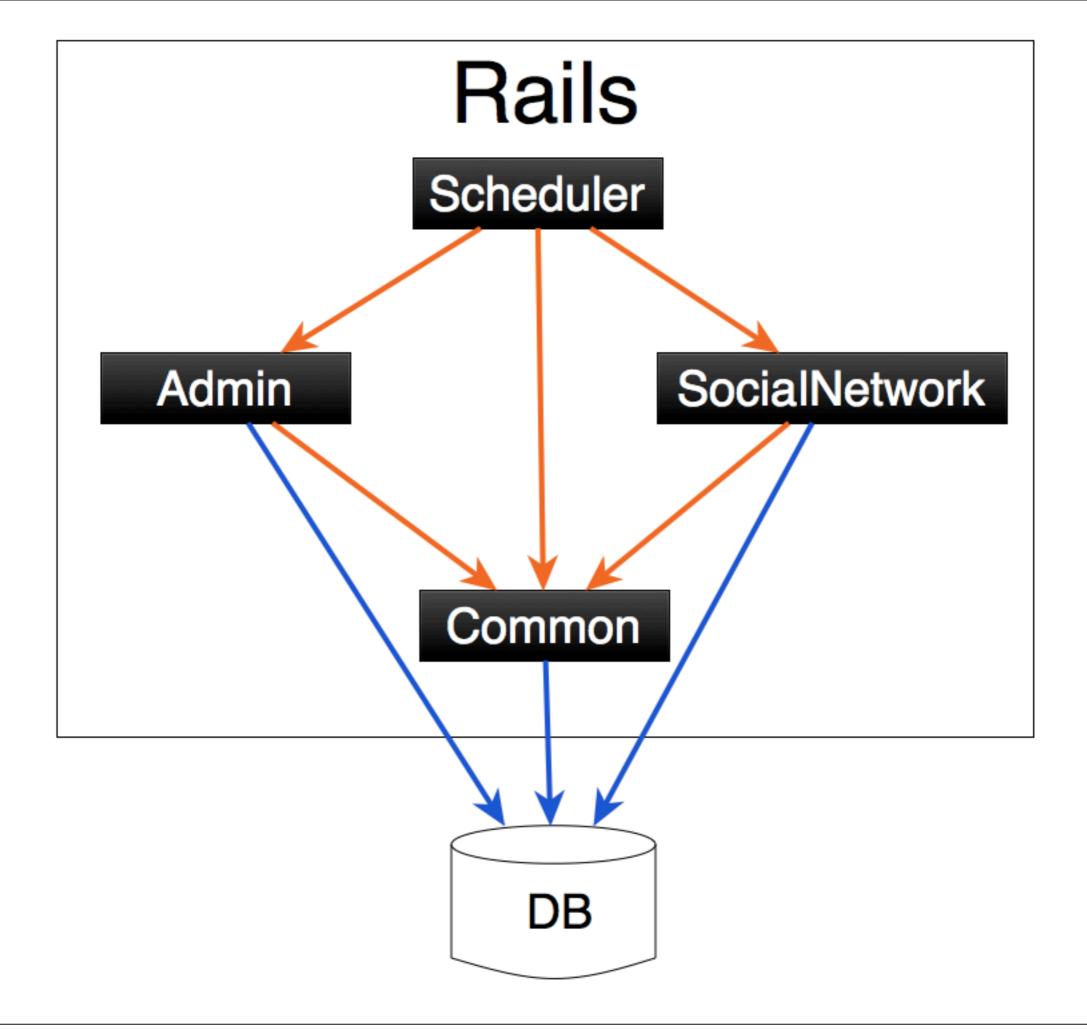
table namespacing

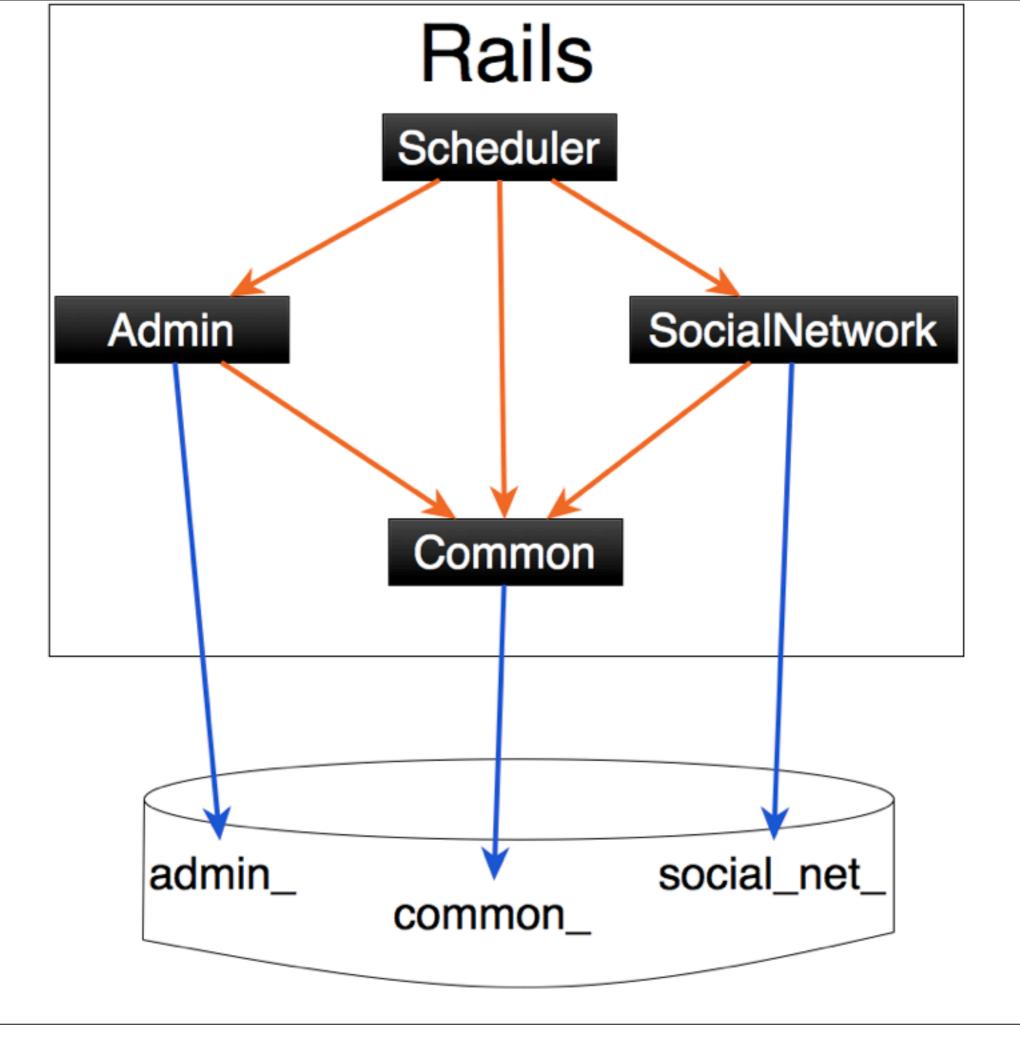


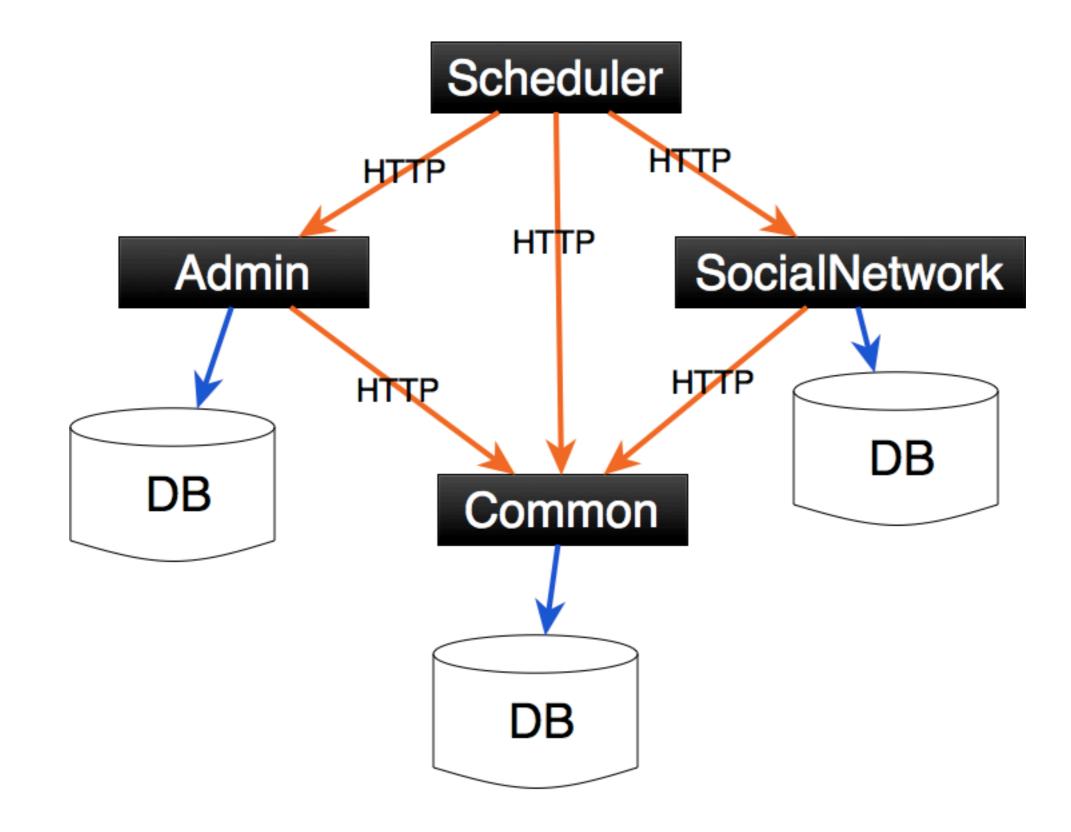
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migrations inside engines



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rake your_engine_name:install:migrations



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module EngineWithMigrations class Engine < ::Rails::Engine isolate namespace EngineWithMigrations</pre>

initializer :append_migrations do |app| unless app.root.to_s.match root.to_s app.config.paths["db/migrate"] += config.paths["db/migrate"].expanded end end end end

http://pivotallabs.com/leave-your-migrations-in-your-railsengines/

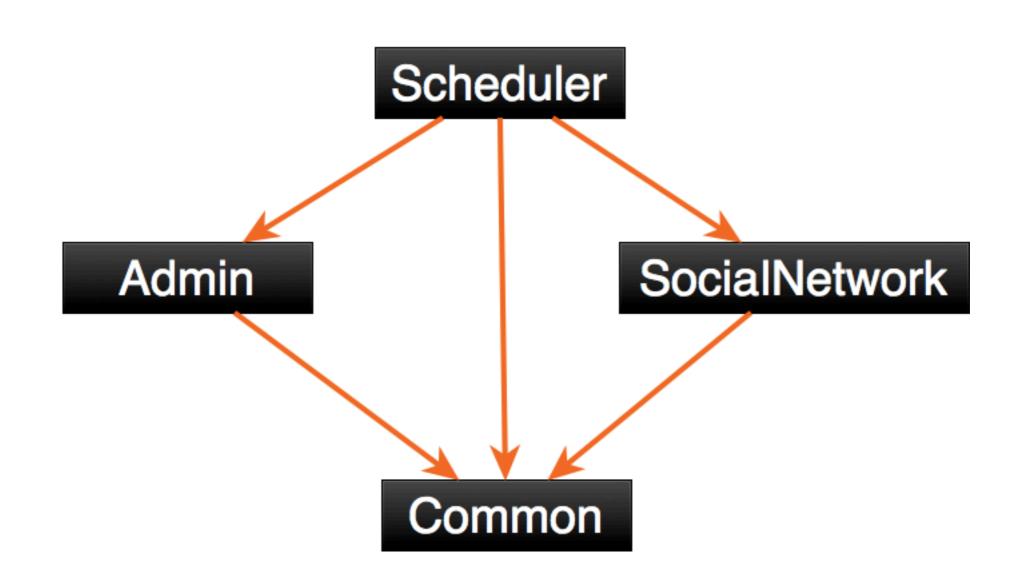
one table per migration

http://pivotallabs.com/moving-db-tables-between-railsengines/

testing the engines in isolation



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engines the right way

fully contained engines

- all tables namespaced
- migrations
- tests

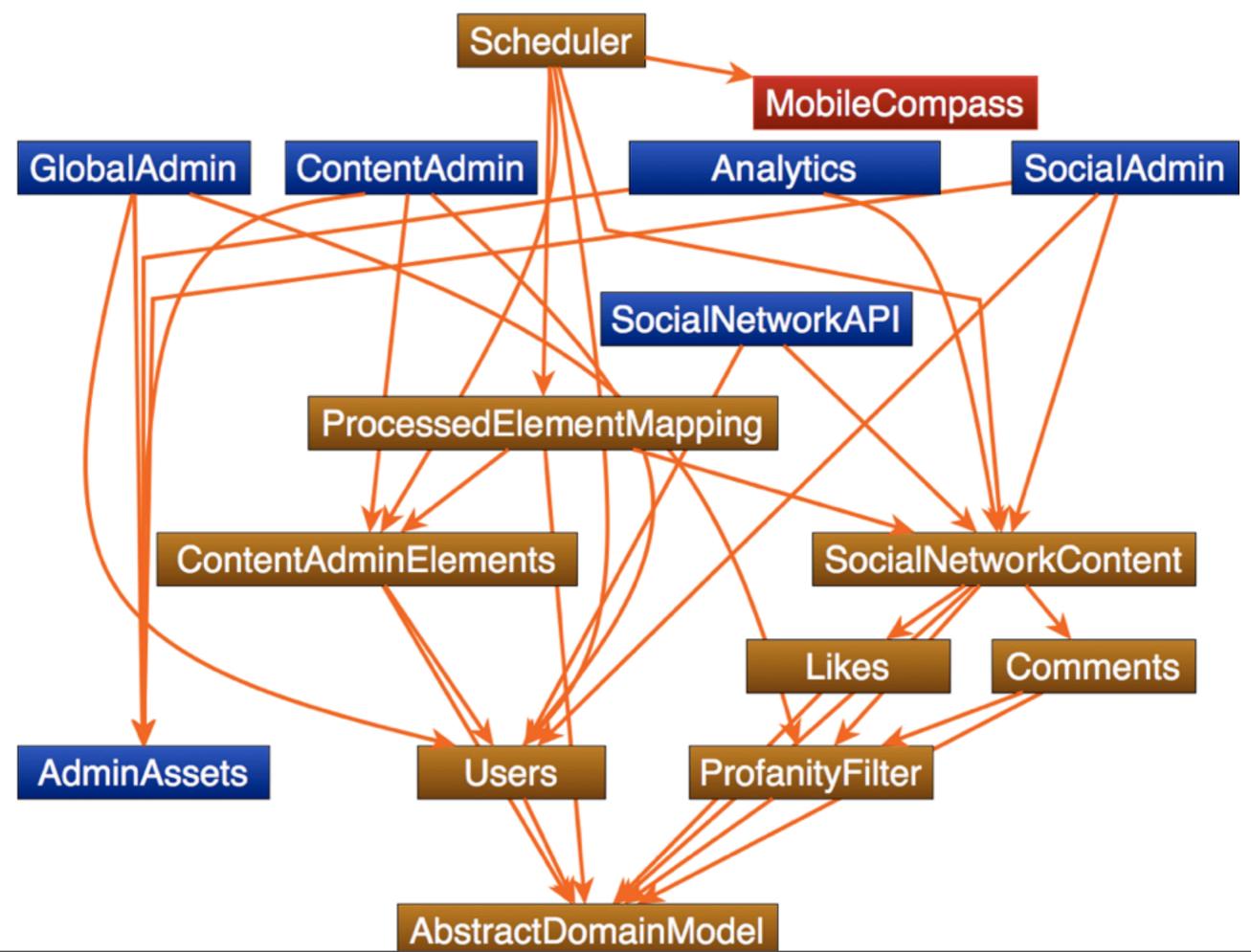
PIVOTALLABS

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no circular dependencies



PIVOTALLABS







```
class User < ActiveRecord::Base
    has_many :posts
end</pre>
```

class Post < ActiveRecord::Base belongs_to :user end</pre>



domain api

domain api

- simple classes to wrap ActiveRecord calls
 - take as input: params or ids
 - output PORO



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class UserManager def find_by_id(id) User.new(UserRecord.find(id)) end

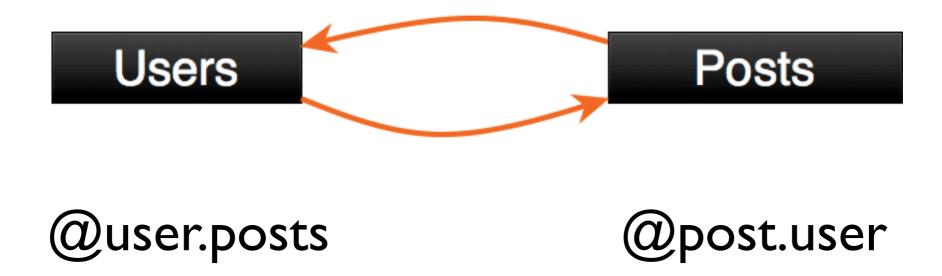


class UserManager def find_by_id(id) User.new(UserRecord.find(id)) end

```
class UserManager
def find_by_id(id)
User.new(UserRecord.find(id))
end
```

```
private
 class UserRecord < ActiveRecord::Base
   validates :email, presence: true
 end
end
class User
 def initialize(user_record)
   self.email = user record.email
 end
end
```





```
class PostManager
  def find_all_by_user_id(user_id)
    PostRecord.where(user_id: user_id)
    # ... convert to PORO ...
    end
end
```

class PostManager def find_all_by_user_id(user_id) PostRecord.where(user_id: user_id) # ... convert to PORO ... end end

post_manager = PostManager.new
@posts = post_manager.find_all_by_user_id(@user.id)



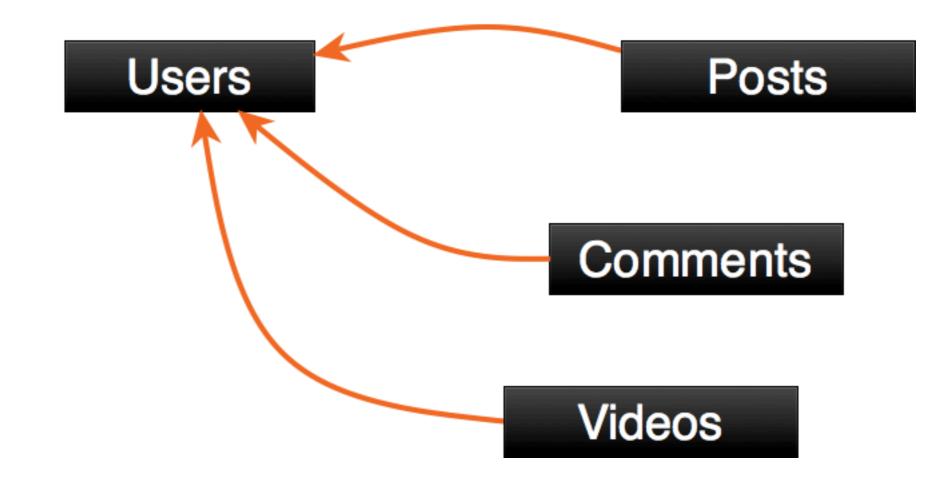


class UserManager def find_by_id(id) User.new(UserRecord.find(id)) end end

class UserManager def find_by_id(id) User.new(UserRecord.find(id)) end end

user_manager = UserManager.new author = user_manager.find_by_id(@post.user_id)





engines the right way

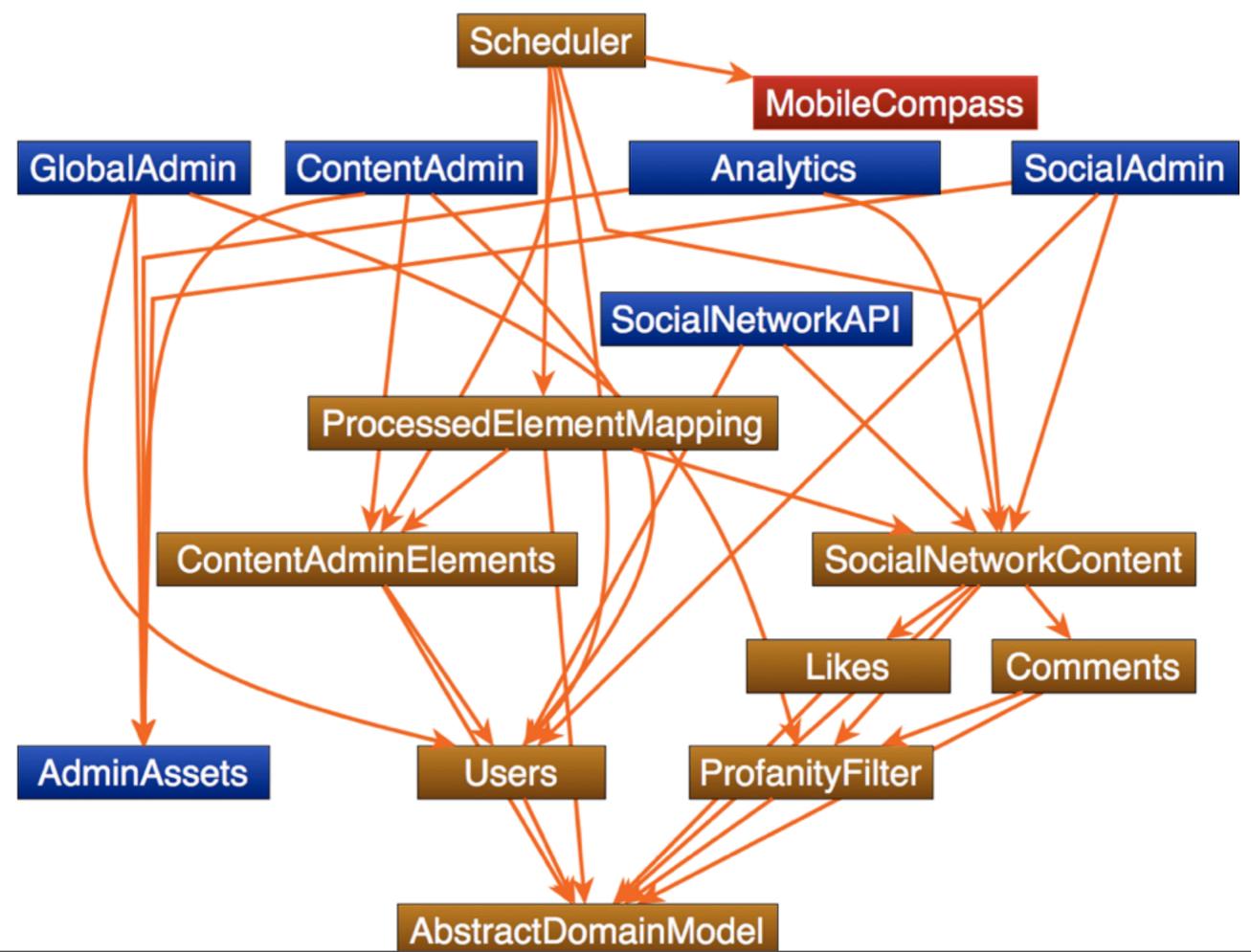
no circular dependencies



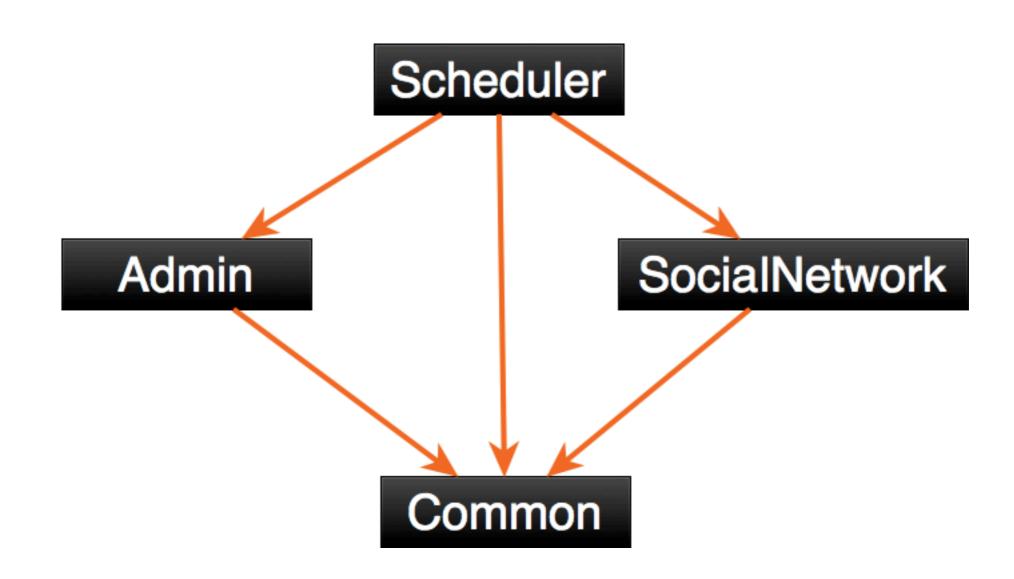
PIVOTALLABS

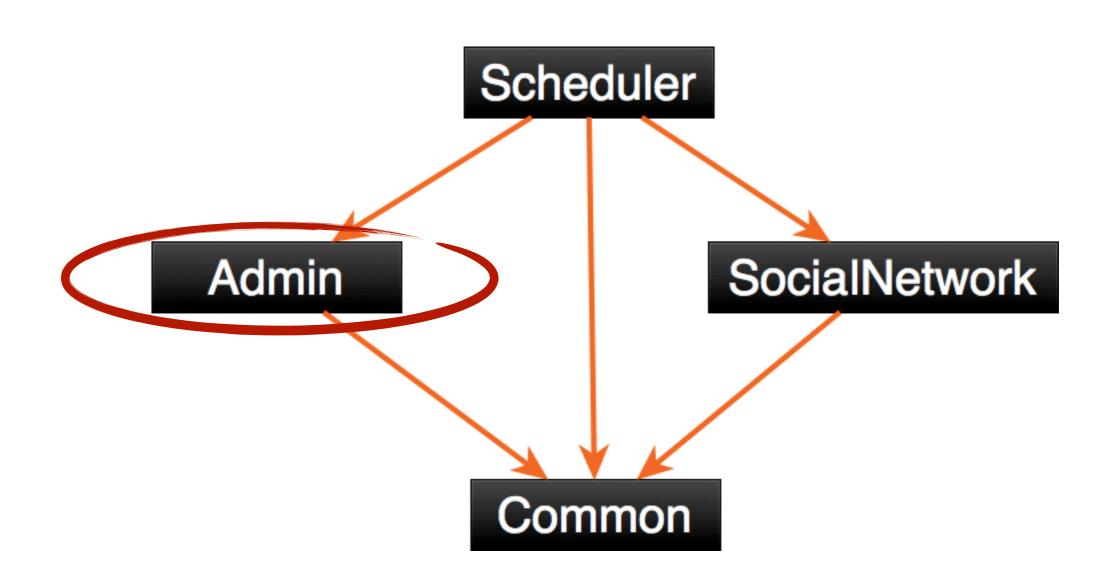
started simple

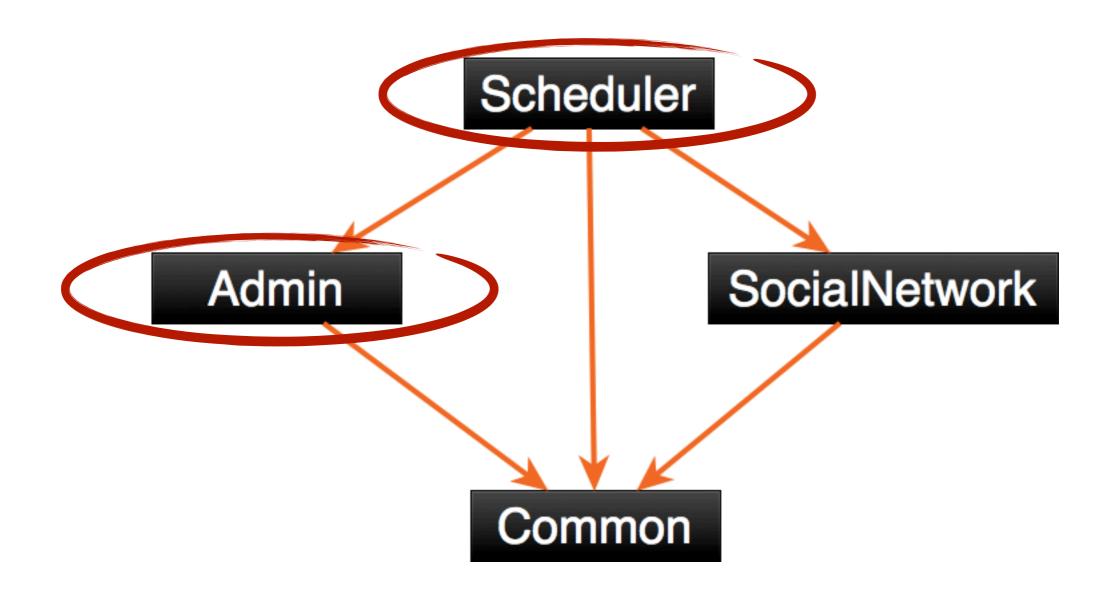




I live my life one green build at a time



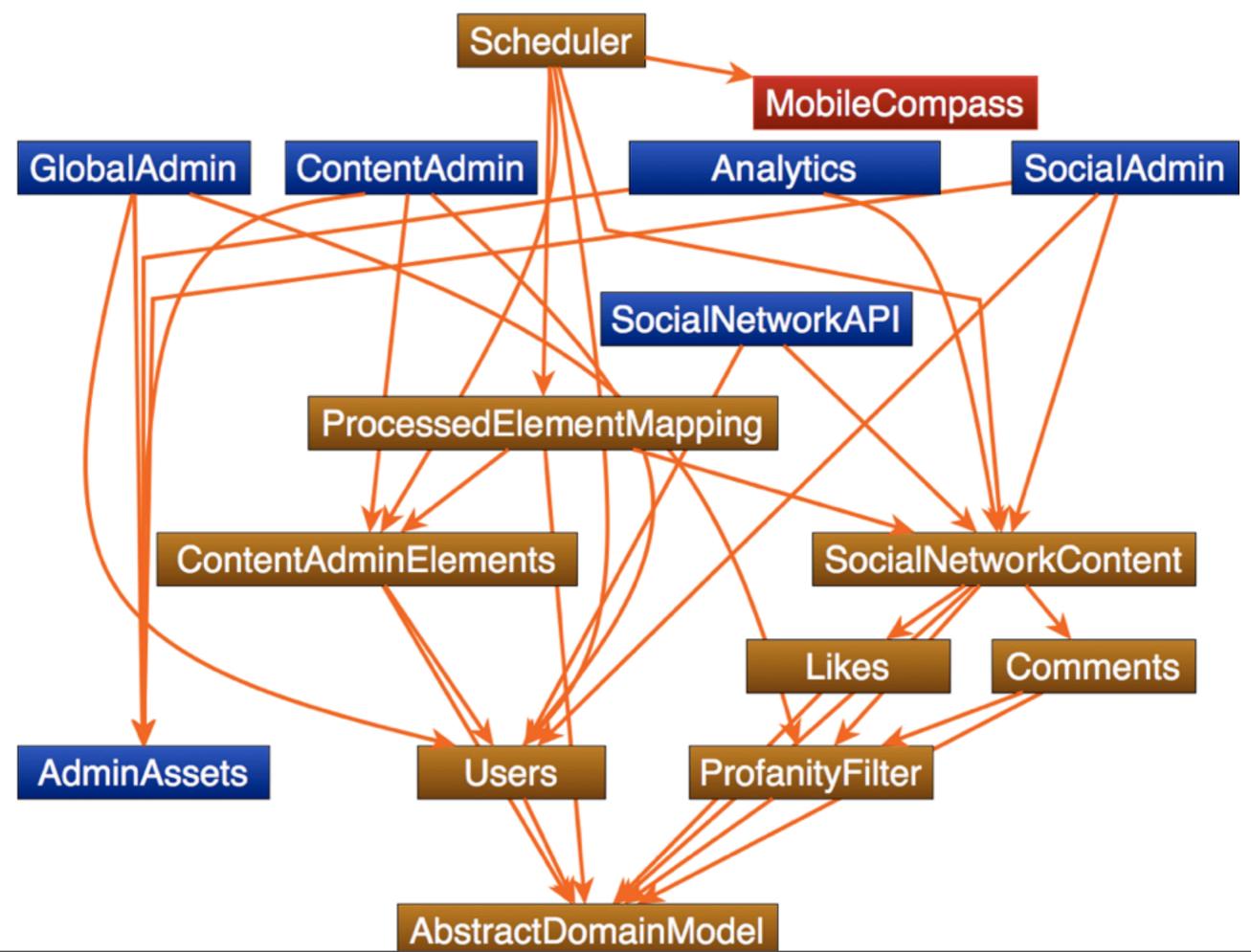




git whatchanged



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how did it work out?

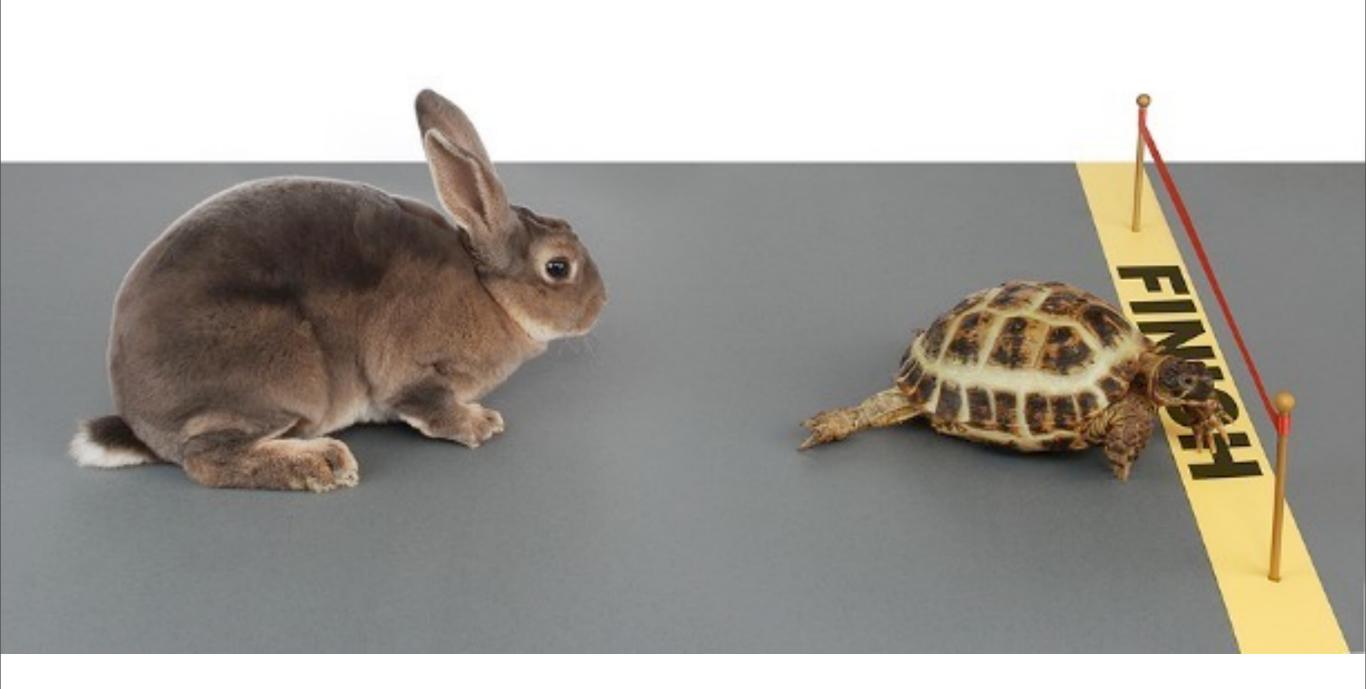


engines are a pain...

- LOW velocity for weeks (4-6)
 - client worries
 - opposite of Rails
 - one pair to start is a MUST
- some technical hurtles
- monkey patching Rails



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... but they get better

- no slow down in development time
- they age well
- easier parallel development
- potential for scaling
- smart and fast build scripts

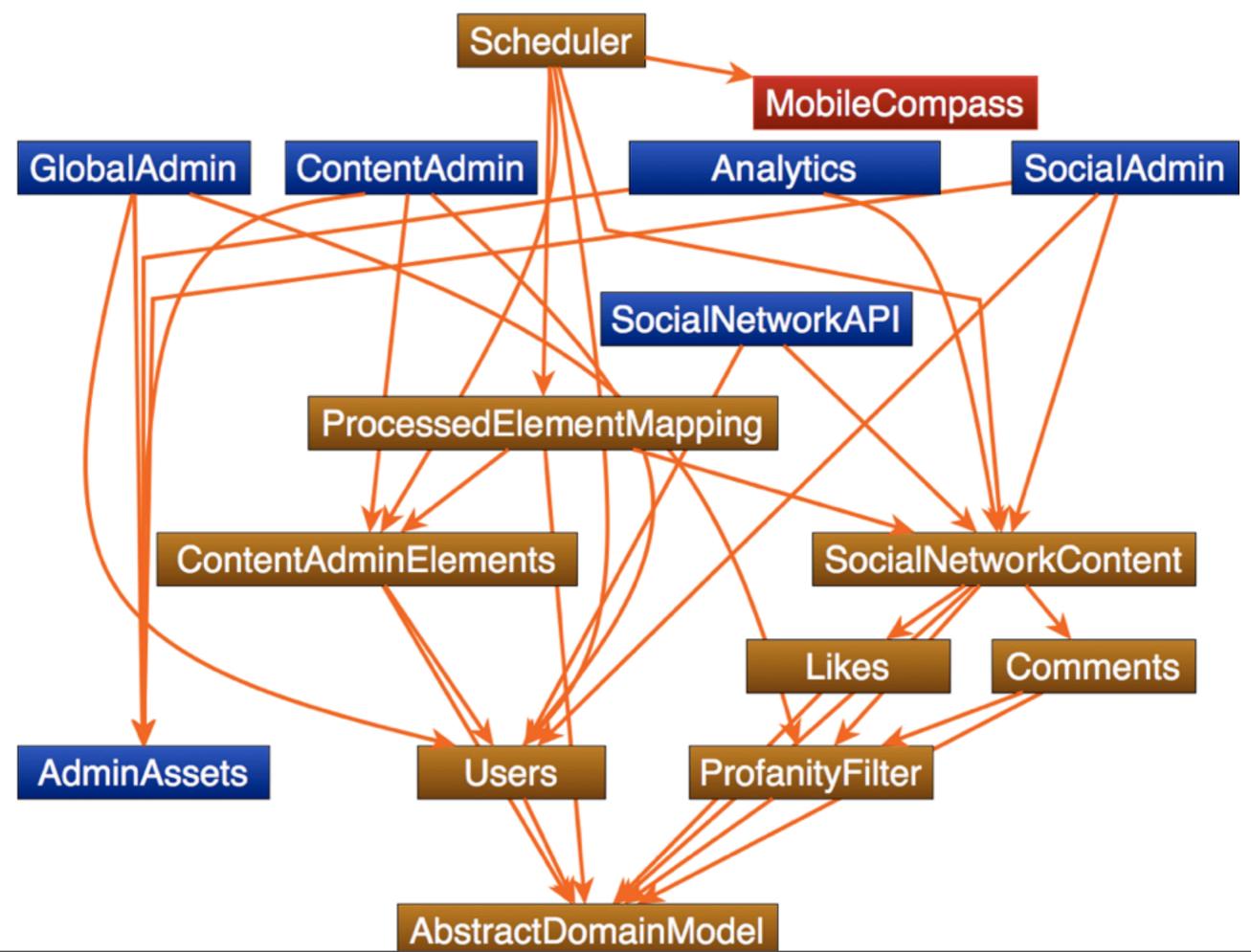


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thumbs up



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```
class UserManager
def find_by_id(id)
User.new(UserRecord.find(id))
end
```

thanks

questions?

http://pivotallabs.com/tag/rails-application-suites/

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