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THE PLAN

Get the slides & cheat sheets @ http://j.mp/owningrails-kit

Part I - The Architecture

- Ruby: The Language
- The design patterns behind Rails
- Active Record
- Front Controller & Rack
- Intercepting Filter
- Template View
- Conquer the Internets, TWICE

Part II - The Rails source

- Browsing Gems code
- Browsing Rails code
- ActiveSupport
- ActiveRecord
- ActionPack
- Railties

Exercises / Breaks / Q&A

~1/hour, 10-20min each

JOIN THE IRC CHANNEL

#codedclasses on freenode

http://webchat.freenode.net/

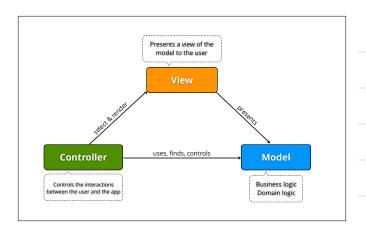
To ask a question:

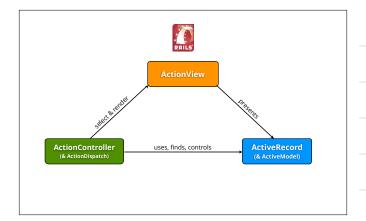
macournoyer: ZOMGBBQ, why is this class so awesome?



Why	Ruby A Programmer's Best Friend	?

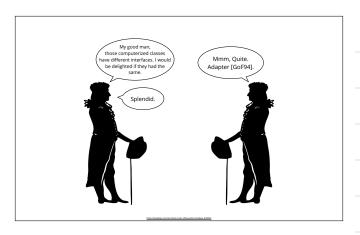
Model - View - Controller

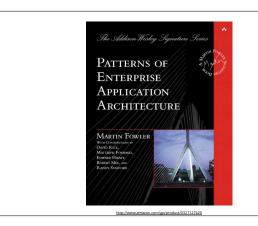


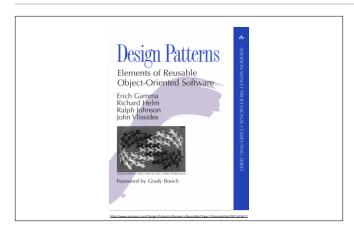


DESIGN PATTERNS

Most software problems have been solved



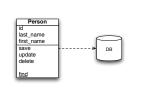






http://amzn.com/0321490452

Active Record



Let's code

EXERCISE

Implement User.all

git clone git://github.com/owningrails/patterns.git cd patterns git checkout -b user-all

edit lib/active_record.rb

edit test/user_test.rb # Add test for User.all

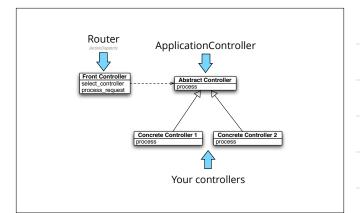
\$ ruby -I. test/user_test.rb

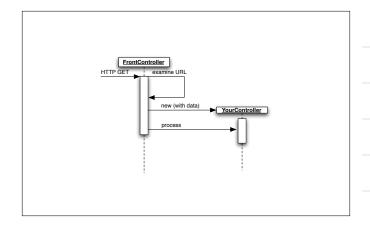
SAVE YOUR WORK

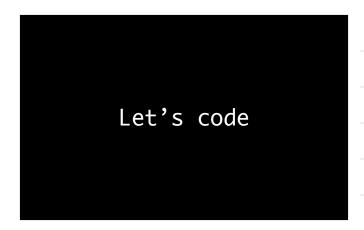
\$ git add .
\$ git commit -m "Implement AR.all"

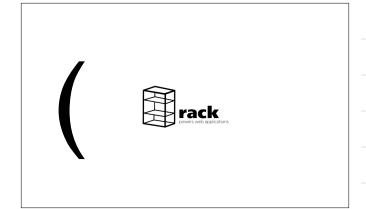
\$ git checkout master
\$ git pull

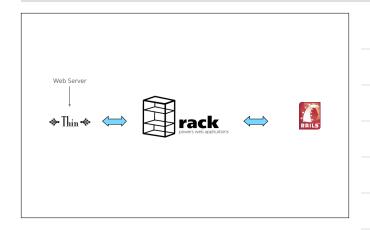












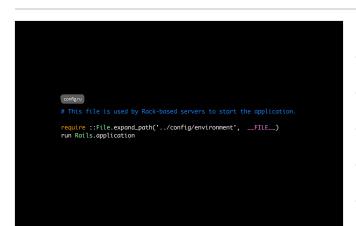
```
POST / HTTP/1.1

Host: localhost
Connection: close
Content-Length: 6

ohaie!

env = {
    "REQUEST_METHOD" -> "POST",
    "PATH_LNFO" -> "J.1",
    "HTTP_MESSON" -> "l.1",
    "HTTP_CONNECTION" -> "close",
    "CONTENT_LENGTH" -> "6"
```





EXERCISE

Create a Rack app that outputs the requested path. (Hint: inspect env variable)

- \$ git pull
 \$ gem install shotgun
 \$ git checkout -b rack_app
 \$ edit config.ru
 \$ shotgun
- # Open your browser at
 # http://localhost:9393/hi
 # Should show: "/hi"

Bonus: Implement a tiny subset of Sinatra as a Rack app.

Just enough to run this:

get "/hi" do "Owning!" end

Hint: use PATH_INFO and REQUEST_METHOD

Windows users: use rackup instead of shotgun and restart it (CTRL+C) on each change

SAVE YOUR WORK

\$ git add .
\$ git commit -m "Create a Rack app"

Get my changes
\$ git checkout master
\$ git pull



Let's code

EXERCISE

Create a UsersController, displaying a list of users (index).

in patterns
\$ git pull
\$ git checkout -b users_controller
\$ shotgun
open http://localhost:9393/users

Bonus: build a Rails-like routing DSL to match the routes we have now.

configroute.rb

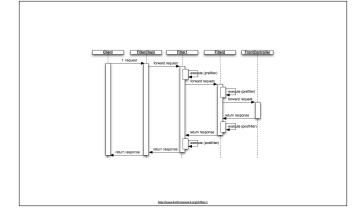
Routes = Router.new do
match '/' >> 'home#index'
match '/home/index' >> 'home#index'
match '/users' >> 'users#index'

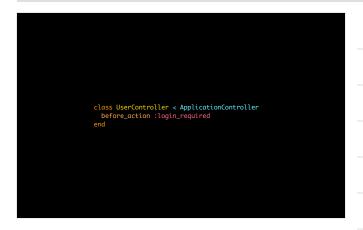
SAVE YOUR WORK

\$ git add .
\$ git commit -m "Create a controller"

Get my changes
\$ git checkout master
\$ git pull

Intercepting Filter







Let's code

EXERCISE

Create an after action to append a footer app/controllers/home_controllers/b

\$ git pull
\$ git checkout -b after_action
\$ shotgun

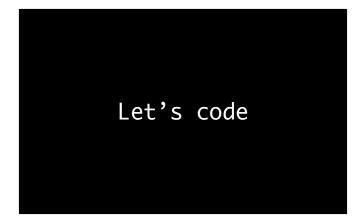
Run tests

ruby -Itest test/filters_test.rb

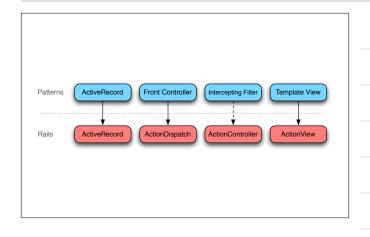
SAVE YOUR WORK

- \$ git add .
 \$ git commit -m "Add filters to controllers"
- # Get my changes
 \$ git checkout master
 \$ git pull

Template View PEAA Fowler 2002







Get ready for tomorrow

Clone my Rails app

```
$ cd .. # if still in patterns dir
$ git clone git://github.com/owningrails/blog.git
$ cd blog
$ bundle install
$ bundle exec rake db:setup
```

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