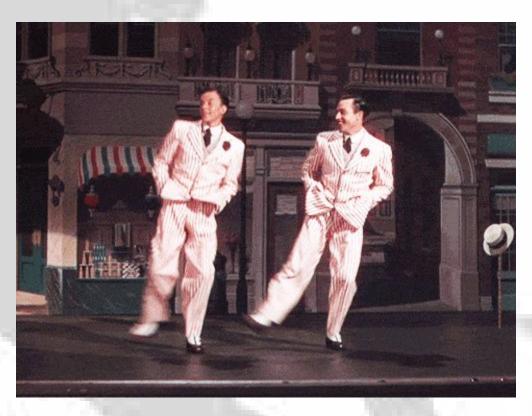
Athens Ruby Meetup

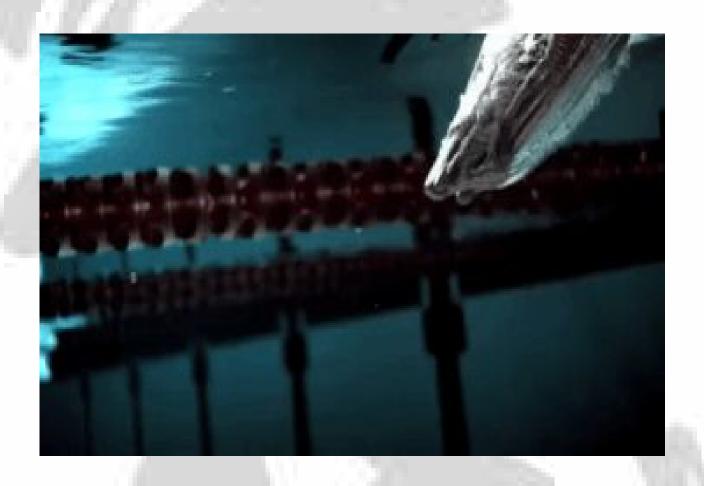
Welcome to #27 Ruby Meetup Friday 18th November 2016

Sinatra

http://www.sinatrarb.com/



Why Sinatra?





...the hard way!



background

- Created by Blake Mizerany 2007
- Ruby Learning:
 - How do I learn and master Sinatra?
- Sinatra quickly create tiny web apps and services
- Ideal for micro-styling
- Sinatra <= 5-10 end points vs Rails > 15 -20 end points
- Top 200 most download gems
- 40 million vs 80 million downloads

Companies Using Sinatra

- Heroku
- GitHub
- Apple
- BBC
- LinkedIn
- National Security Agency
- Agency Rainford
- Curbed Network
- Solutios
- Centro
- Apartment Therapy
- Inventive Labs

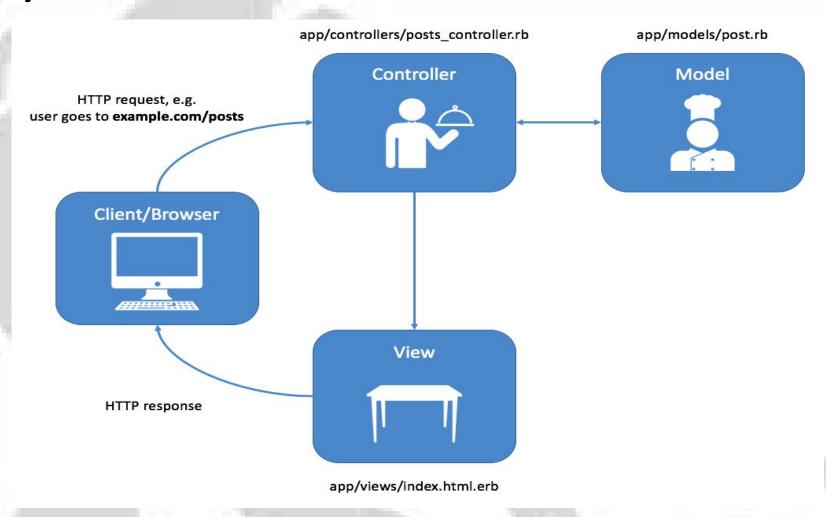
- ENTP
- Engine Yard
- Citrusbyte
- Lomographic Society International
- Nth Metal Interactive
- Osborne Brook
- Robot Mode
- Thoughtbot
- Forward
- WyeWorks
- Idealist Digital
- A Good Company

- Ylastic
- Fork
- Ant genomics database
- Mu Dynamics
- Scribble Squad
- Stanford
- Hiboux
- PentesterLab
- Animoto
- Red Hat
- Travis Cl
- Clearhaus

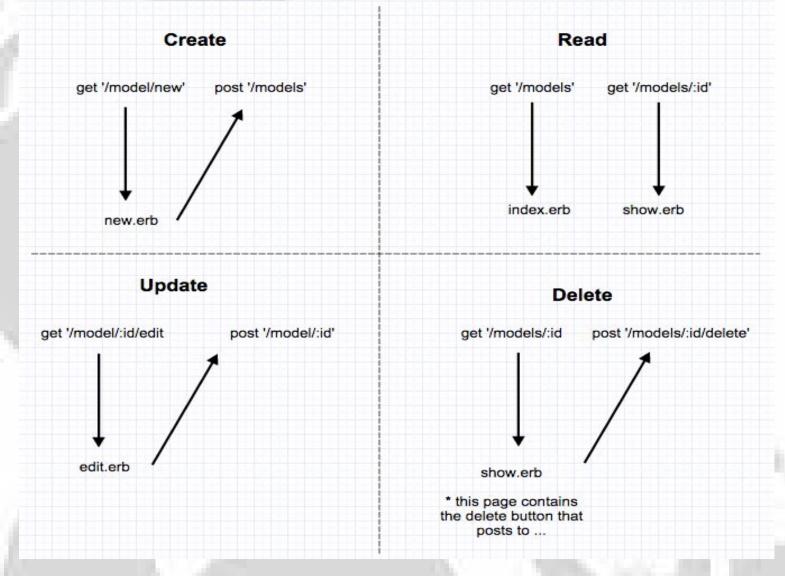
The Foundation

- Object Relation Mapping (ORM)
 - *db* <--> *code*
- ActiveRecord included in rails by default
 - ORM on steroids!
- Rack (used by Sinatra and Rails)
 - Ruby HTTP interface

MVC cycle

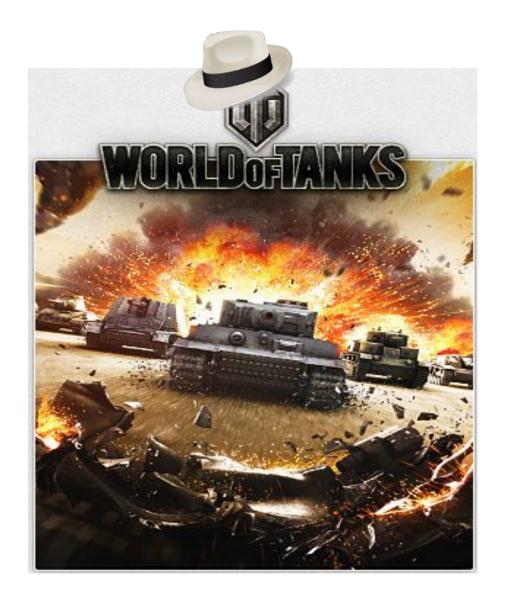


Routes



Routes

```
get '/' do
    .. show something ..
    end
    post '/' do
    .. create something ..
    end
    put '/' do
    .. replace something ..
11
12
    patch '/' do
    .. modify something ..
16
    delete '/' do
18
    .. annihilate something ..
19
    end
20
    options '/' do
    .. appease something ..
23
    end
    link '/' do
    .. affiliate something ..
27
    end
28
29
    unlink '/' do
30
    .. separate something ..
31
    end
```



...with Sinatra

Building everything from scratch

```
Gemfile
source 'http://rubygems.org'
gem 'sinatra'
gem 'activerecord', :require => 'active record'
gem 'sinatra-activerecord', :require => 'sinatra/activerecord'
gem 'rake'
gem 'require all'
gem 'sqlite3'
gem 'thin'
gem 'shotgun'
gem 'bcrypt'
gem 'rack-flash3'
gem "tux"
group :test do
  gem 'rspec'
  gem 'capybara'
  gem 'rack-test'
  gem 'database cleaner', git: 'https://github.com/bmabey/database cleaner.git'
```

Routes in action

```
tanks_controller.rb

class TanksController < ApplicationController

get '/tanks' do
    if logged_in?
    @user = current_user
    erb :'users/tanks'
    else
        redirect to "/login"
    end
end</pre>
```

Routes in action

```
47
      post '/tanks/:id' do
        @tank = Tank.find(params['id'])
        @tank.name = params['name']
        @tank.nation = params['nation']
50
51
        @tank.save
52
         redirect to "/tanks/#{@tank.id}"
53
      end
54
      delete '/tanks/:id' do
        @tank = Tank.find(params['id'])
57
        @tank.delete
         redirect to '/tanks'
59
      end
60
    end
```

html.erb

html.erb

```
gem 'bcrypt'
    # Application.rb
    class ApplicationController < Sinatra::Base</pre>
    use Rack::Flash
      configure do
       set :public_folder, 'public'
       set :views, 'app/views'
       enable :sessions
       set :session secret, "secret"
13
     end
     helpers do
15
       def logged in?
          !!session[:user id]
17
18
       end
19
       def current user
         User.find(session[:user id])
21
22
       end
      end
```

```
2
3 # Models
4 class User < ActiveRecord::Base
5 has_many:tanks
6 has_secure_password
7 end
8
```

```
# User Controller
post '/login' do
@user = User.find_by(username: params["username"])
if @user && @user.authenticate(params["password"])
session[:user_id] = @user.id
redirect to '/tanks'
else
flash[:message] = "Wrong username and/or password"
erb :'/users/login'
end
end
```

tux

- gem "tux"
- Access database
- CRUD
- Loads environment in the console routes & views

shotgun

- Running local server
- Gem "shotgun" or gem install shotgun

```
[18:41:28] (master) sinatra-fwitter-project-v-000

// ♥ shotgun

== Shotgun/Thin on http://127.0.0.1:9393/

Thin web server (v1.6.4 codename Gob Bluth)

Maximum connections set to 1024

Listening on 127.0.0.1:9393, CTRL+C to stop
```

