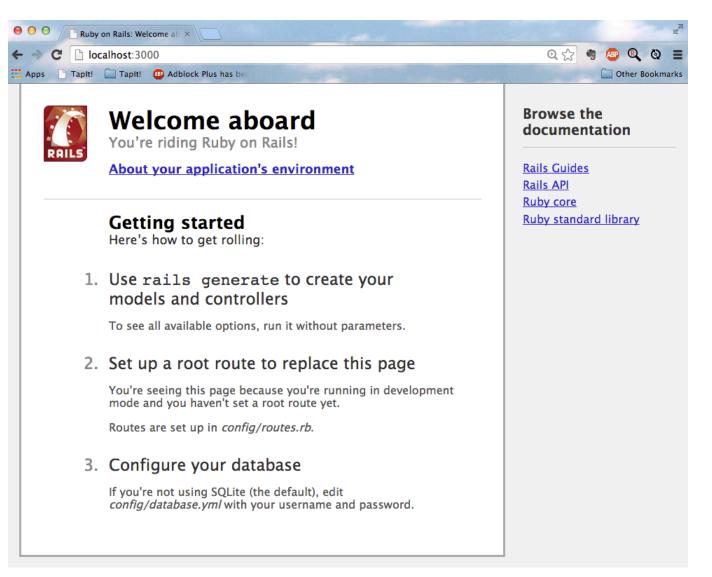


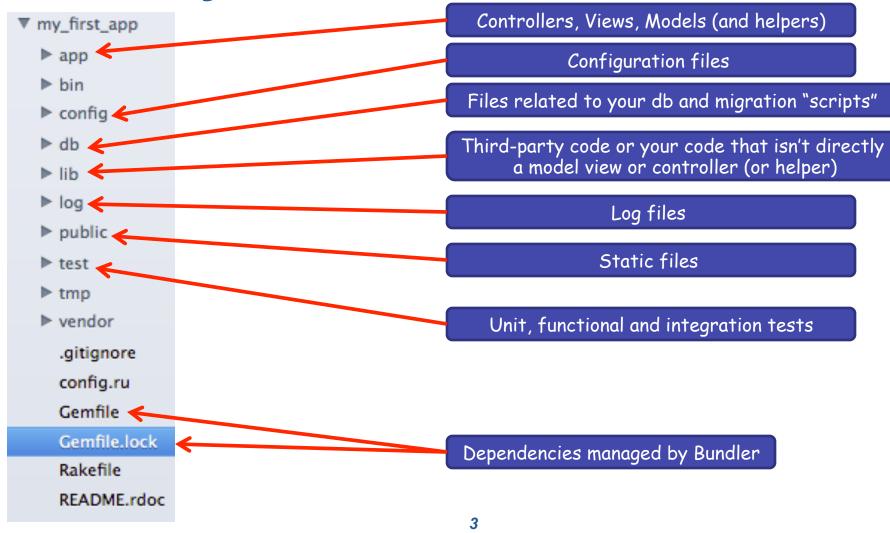
## Intro to Ruby on Rails

Part II

# Running the app (Continued)



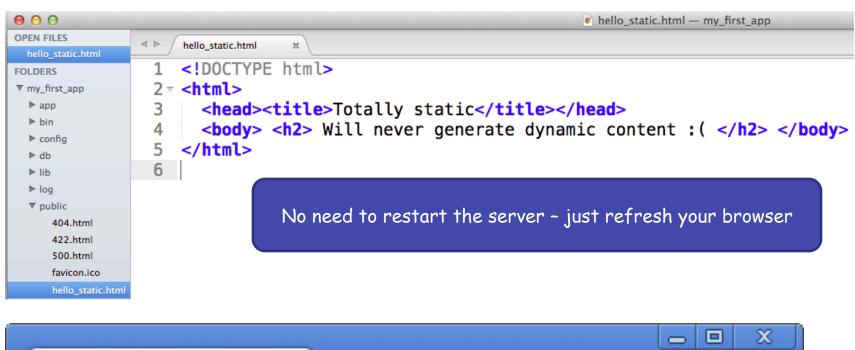
#### **Directory structure convention**



# public/hello\_static.html

- Rails 4+ UPDATE: index.html is no longer in the public directory
- Server looks into public directory before looking anywhere else
- So... if we want to add a completely static web page (or any file) to our application - we can add it under public directory

## Adding hello\_static.html to public dir





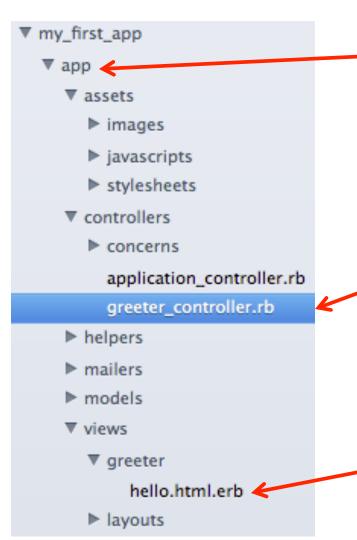
## Generating a controller

- Controllers contain actions (ruby methods) and orchestrate web requests
- Rails can quickly generate a controller and 0 or more actions with their associated views
- \$rails generate controller controller\_name [action1 action2]
- \$rails g controller greeter hello
  - (may substitute g for generate)

# Generating a controller

```
ruby
hazink1-ml1:my_first_app hazink1$ rails g controller greeter hello
      create app/controllers/greeter_controller.rb
       route get 'greeter/hello'
      invoke erb
      create app/views/greeter
               app/views/greeter/hello.html.erb
      create
      invoke test_unit
      create
               test/controllers/greeter_controller_test.rb
      invoke
             helper
      create
               app/helpers/greeter_helper.rb
      invoke
               test_unit
      create
                 test/helpers/greeter_helper_test.rb
      invoke assets
      invoke
               coffee
                 app/assets/javascripts/greeter.js.coffee
      create
      invoke
                SCSS
                 app/assets/stylesheets/greeter.css.scss
      create
```

# Generating a controller



... app directory is where you will be spending most of your time ...

Controller

View

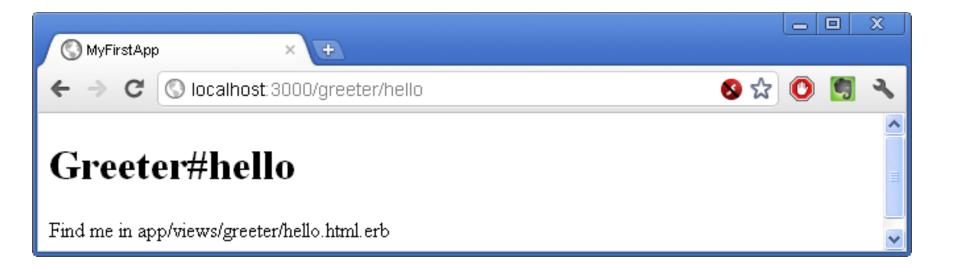




### What does it look like? (View)

```
hello.html.erb *

1 | <h1>Greeter#hello</h1>
2 Find me in app/views/greeter/hello.html.erb
```

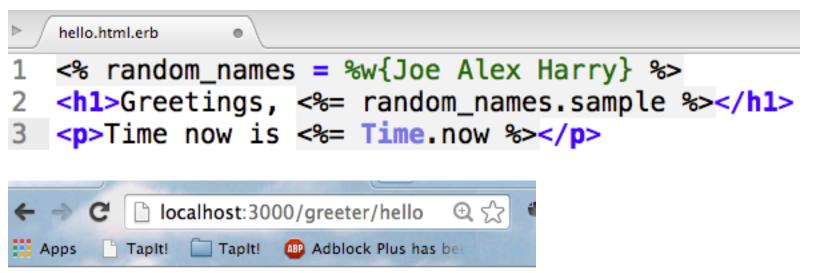


(No DOCTYPE, head or body elements...)

# **ERB** (Embedded Ruby)

- The view file was generated and it looks like it's an HTML file, but it has an .erb extension
- ERb is a templating library (similar to say JSP) that lets you embed Ruby into your html
- 2 tag patterns to learn:
  - -<% ...ruby code... %> evaluate Ruby code
  - <%= ...ruby code... %> output evaluated
    Ruby code

#### New hello.html.erb



# Greetings, Alex

Time now is 2014-05-23 11:26:22 -0400



#### Greetings, Joe

Time now is 2014-05-23 11:29:12 -0400

# What does it look like? (Controller)

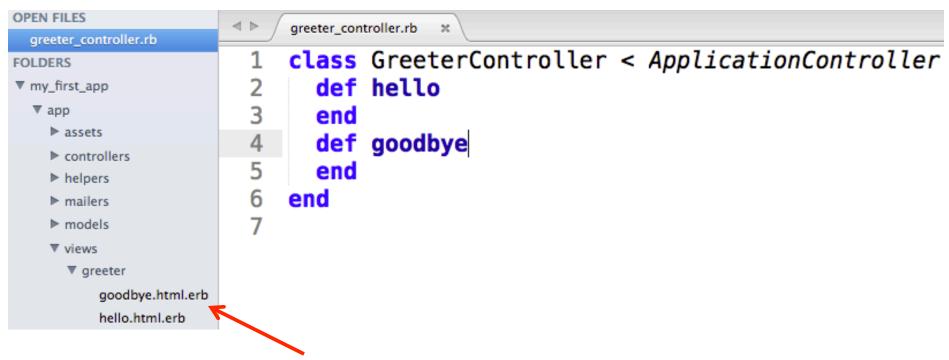
```
preeter_controller.rb ×

1 ▼ class GreeterController < ApplicationController

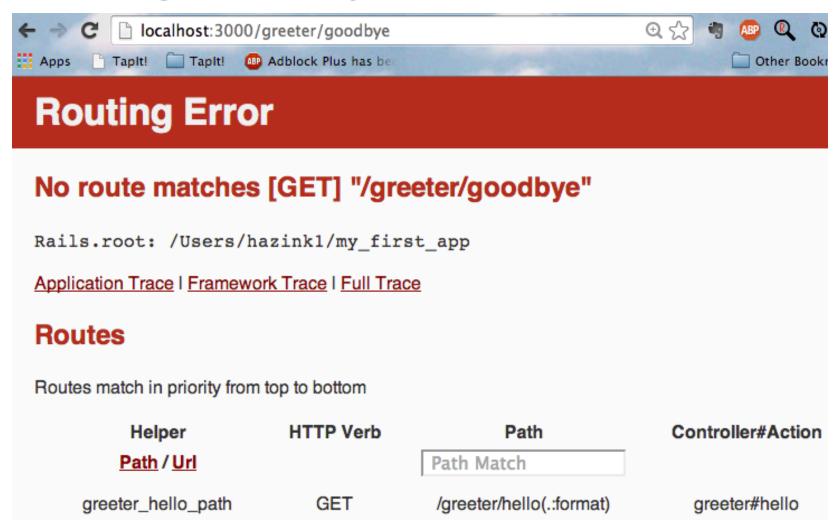
def hello
end
end
end
```

- hello action is just a regular (empty in this case) Ruby method
- What if we want to add a goodbye action to the greeter controller and also add a goodbye.html.erb to app/views/ greeter directory?

# Adding goodbye action



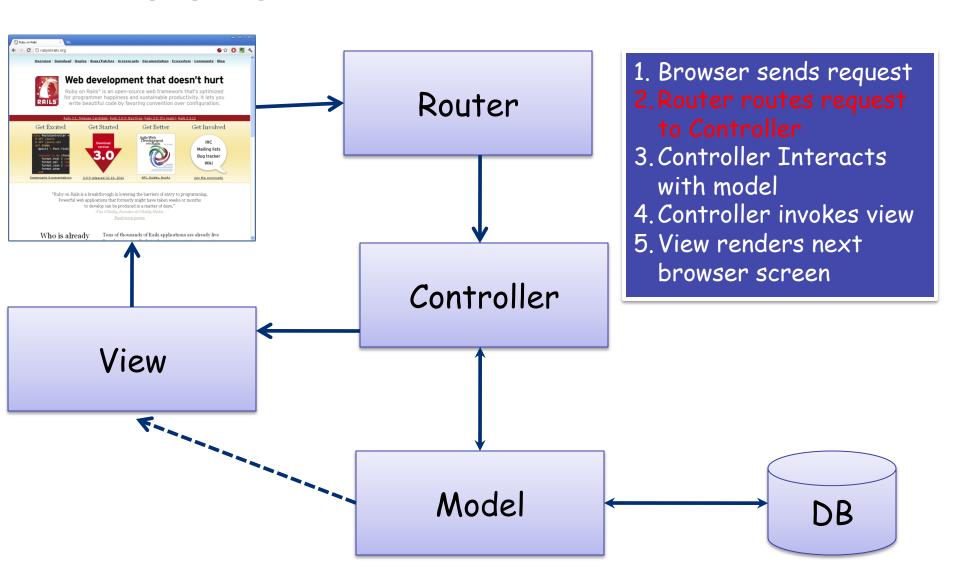
## **Adding Goodbye Action**



#### **Routes**

- It turns out we are missing an important piece "Routing!"
- Before the Controller can orchestrate where the web request goes - the web request needs to get routed to the Controller
- So, how did the hello action work then?
- The route for hello action was automatically generated (during \$rails g controller)

## MVC(R) Cycle - Revised!



#### routes.rb

- All the routes need to be specified (either generated by rails generators or manually) in the config/routes.rb file
- So, what does config/routes.rb look like?

# config/routes.rb

```
1 Rails.application.routes.draw do
2 get 'greeter/hello'
3 
4  # The priority is based upon order of creation: first created -> highest priority.
5  # See how all your routes lay out with "rake routes".
6 
7  # You can have the root of your site routed with "root"
8  # root 'welcome#index'
9 
10  # ...
11 end
```

Let's add the route for the goodbye action

# New config/routes.rb

```
routes.rb
                                                Action
   Rails.application.routes.draw do
     # get 'greeter/hello'
     # SAME AS ABOVE
     get "greeter/hello" => "greeter#hello"
6
     qet "greeter/goodbye"
8
     # The priority is based upon brder of creation: first created -> highest priority.
     # See how all your routes lay out with "rake routes".
9
10
     # You can have the root of your site routed with "root"
11
     # root 'welcome#index'
12
13
14
                               Controller
15
   end
                                                            localhost:3000/greeter/goodbye
                                               Apps
                                                        Taplt!
                                                                          AD Adblock Plus has be
                                                                   Taplt!
                                               goodbye
```