In this lecture, we will discuss...

- ♦ How to generate a controller
- ♦ Actions



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]
 - May substitute g for generate

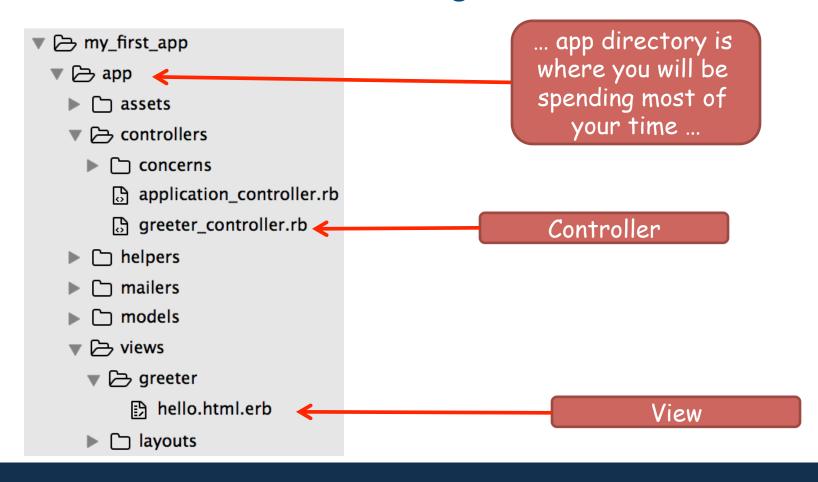


Generating a Controller

```
~/my_first_app$ rails a controller greeter hello
            app/controllers/greeter_controller.rb
                                                                 Controller
      route get 'greeter/hello'
      invoke erb
      create
              app/views/greeter
     create
               app/views/greeter/hello.html.erb
                                                                    View
      invoke test_unit
               test/controllers/greeter_controller_test.rb
      create
      invoke
             helper
               app/helpers/greeter_helper.rb
      create
     invoke
               test_unit
     invoke assets
      invoke
              coffee
                 app/assets/javascripts/greeter.coffee
      create
      invoke
               SCSS
                 app/assets/stylesheets/greeter.scss
      create
```



Generating a Controller





What Does It Look Like? (View)

No DOCTYPE, head or body elements...





Greeter#hello

Find me in app/views/greeter/hello.html.erb



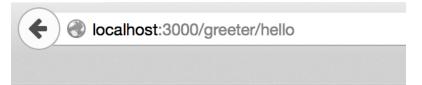
ERB (Embedded Ruby)

- ♦ The view file was generated and it looks like it's an HTML file, but it has an .erb extension
- ♦ Two tag patterns to learn:
 - <% ...ruby code... %> evaluate Ruby code
 - <%= ...ruby code... %> output evaluated Ruby code



New hello.html.erb





Greetings, Joe

Greetings, Alex

The time now is 2015-08-12 16:48:57 -0400

The time now is 2015-08-12 16:49:34 -0400



What Does It Look Like? (Controller)

```
greeter_controller.rb *

class GreeterController < ApplicationController
  def hello
  end
end</pre>
```

- 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?
 Should work...?

Adding Goodbye Action

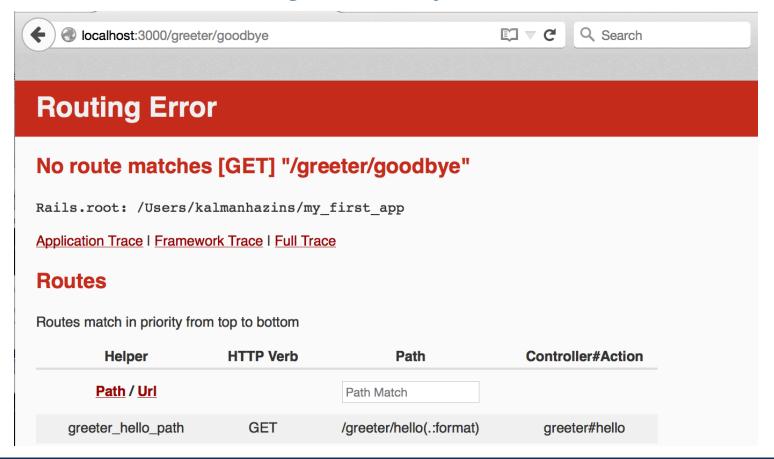
```
FOLDERS
                                     goodbye.html.erb
                                                           greeter_controller.rb ×
class GreeterController < ApplicationController</pre>
  ▼  app
                                     def hello
   ▶ ☐ assets
                                     end
                                     def goodbye
     5
                                     end
      Concerns
                               6
                                   end
       application_controller.rb
                               8
       greeter_controller.rb
                               9
   ▶ ☐ helpers
     mailers

    models

   goodbye.html.erb
         hello.html.erb
```



Adding Goodbye Action





Summary

- ♦ Controllers contain actions (methods)
- ♦ ERB allows you to either evaluate expression with
 - <% expression %> or output an expression

What's Next?

♦ Routes

