

## Introduction to Ruby on Rails

Part III

#### **Action methods inside Controller**

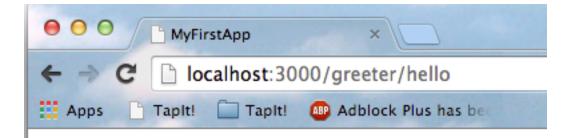
- If the action method is not really doing anything (i.e. empty) - we can remove it
- As long as there is a proper route defined and there is a properly named view file/ template - the action method does not have to be there and Rails will use a convention to find the correct template

concerns

application\_controller.rb greeter\_controller.rb

#### **Controller - new look**





# Greetings, Joe

Time now is 2014-06-01 10:00:31 -0400

You probably still want to leave the actions (methods) in the Controller (to make it easier on another person looking for them), but the point of this slide is that you don't \*have\* to have the methods if they are empty as long as the routes are properly defined and the views exist

## Moving business logic out

 Our app "works", but business logic does not belong in the view. The view should have as little Ruby code as possible

```
hello.html.erb *

1 <% random_names = %w{Joe Alex Harry} %>
2 <h1>Greetings, <%= random_names.sample %></h1>
3 Time now is <%= Time.now %>
```

Let's move some code to the controller!

## Moving business logic out (Cont.)

 Instance variables from the controller are available inside the view

```
OPEN FILES
                               greeter_controller.rb
 greeter_controller.rb
                               class GreeterController < ApplicationController</pre>
FOLDERS
                                  def hello

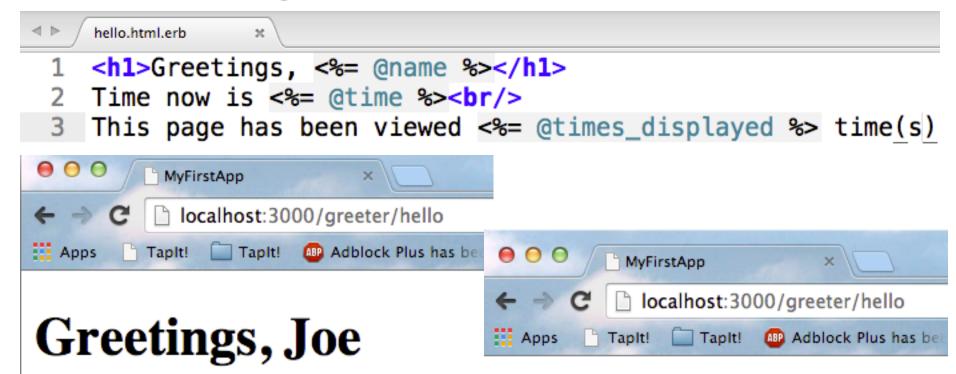
▼ my_first_app

▼ app
                                     random_names = %w{Joe Alex Harry}
    assets
                                     @name = random_names.sample

▼ controllers

                                     @time = Time.now
     ▶ concerns
                                     @times_displayed ||= 0
       application_controller.rb
                                     @times_displayed += 1
       greeter_controller.rb
    ▶ helpers
                                  end
    ▶ mailers
                               end
    ▶ models
                          10
    ▶ views
```

### New views/greeter/hello.html.erb



Time now is 2014-06-01 10:21:36 -0400 This page has been viewed 1 time(s)

# **Greetings**, Alex

Time now is 2014-06-01 10:22:39 -0400 This page has been viewed 1 time(s)

#### Instance variables in Rails

- Unlike Servlets/JSP a new instance of the Controller is created every time a request is made
- Therefore, you can't "store" values in the Controller's instance variables in between requests
- Alternative?
  - Session
  - Database

### Helpers

- We've made the current time available through @time instance variable (controller)
- But what if we want to format how the time looks? Should that code go in the View? Then, we can't reuse it. So... maybe the Controller? That doesn't seem correct either – since the Controller should be "view format" agnostic
- Helpers to the rescue!

# **Helpers (Continued)**

- (empty) greeter\_helper.rb module generated alongside the controller
- Let's add a helper method

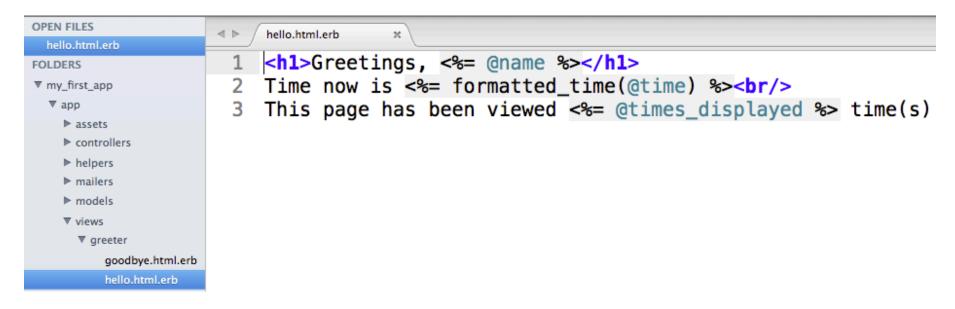
```
OPEN FILES
                                  greeter_helper.rb
 greeter_helper.rb
                                  module GreeterHelper
FOLDERS
                                     def formatted_time(time)
▼ my_first_app

▼ app
                                         # time string in AM/PM format
    assets
                                        time.strftime("%I:%M%p")

▼ controllers

                                     end
      ▶ concerns
                                  end
        application_controller.rb
       greeter_controller.rb
    ▼ helpers
       application_helper.rb
       greeter_helper.rb
```

### Helpers (Continued) – New View



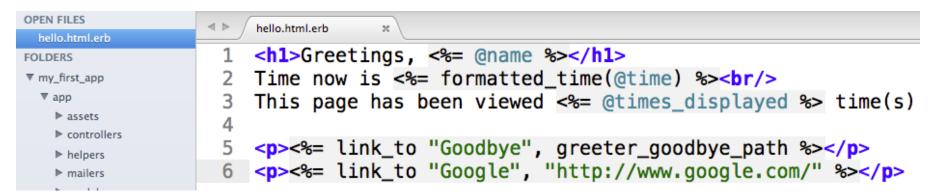
# Greetings, Joe

Time now is 10:32AM
This page has been viewed 1 time(s)

### Rails built-in helpers – link\_to

- Rails provides many built\_in helpers
- link\_to name, path
  - Hyperlink generator that displays the name and links to the path
  - Path could either be a regular string or a route defined in the routes.rb file ending with \_url (full path) or \_path (relative path)
  - -\_url and \_path used interchangeably, but according to the spec full path is required in cases of redirection

### link\_to in action





#### Greetings, Alex

Time now is 10:41AM
This page has been viewed 1 time(s)

Goodbye

<u>Google</u>

localhost:3000/greeter/goodbye

greeter\_goodbye derived from routes.rb (\$rake routes)