

In this lecture, we will discuss...

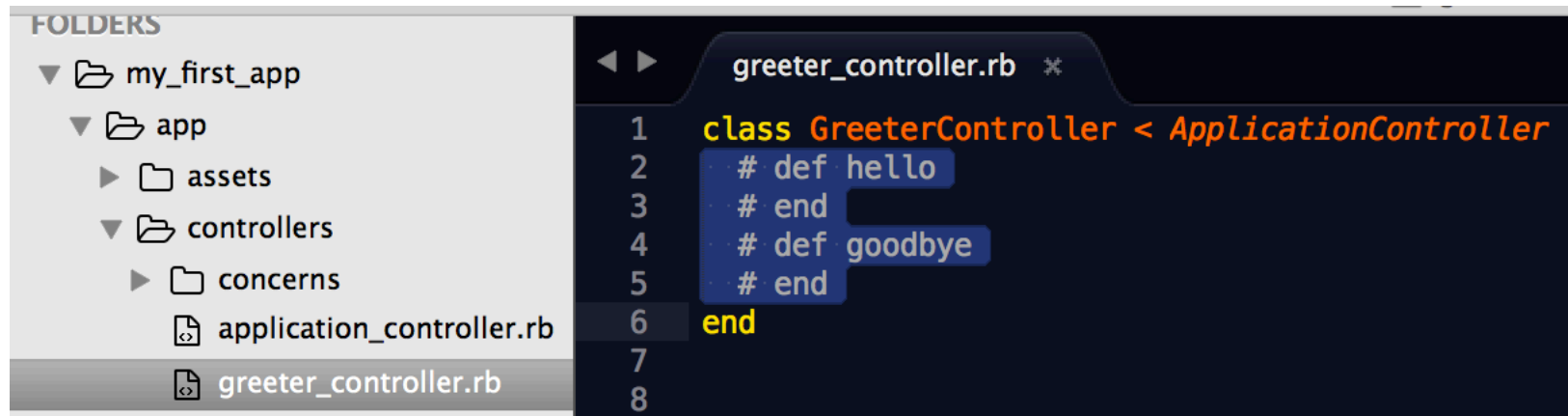
- ✧ How to move business logic out of View and into Controller in order to comply with the MVC pattern
- ✧ How long the controller's instance variables stay in place

Actions (Methods) Inside Controller

- ✧ If the action (method) is not really doing anything (i.e., it's 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 find the correct template** by convention

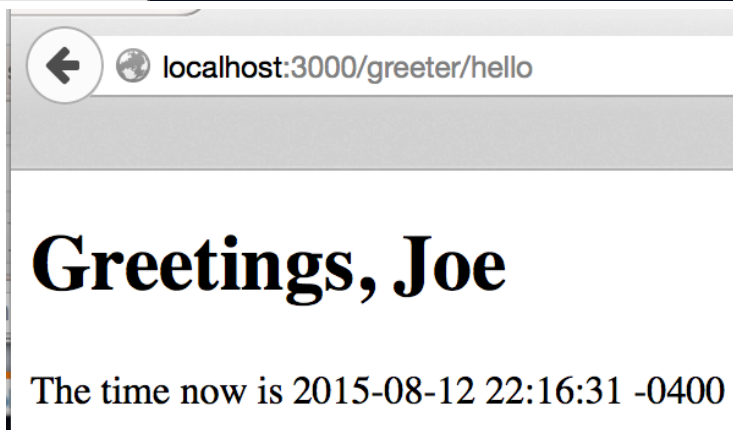


Controller: New Look



The screenshot shows a code editor with a file explorer on the left and a code editor on the right. The file explorer, titled 'FOLDERS', shows a project structure: 'my_first_app' (expanded) contains 'app' (expanded), which contains 'assets' and 'controllers' (expanded). Under 'controllers', there are 'concerns' and two files: 'application_controller.rb' and 'greeter_controller.rb'. The code editor on the right has a tab for 'greeter_controller.rb'. It contains the following Ruby code:

```
1 class GreeterController < ApplicationController
2   # def hello
3   # end
4   # def goodbye
5   # end
6 end
7
8
```



Moving Business Logic Out

- ✧ Our app “works”, but **business logic does not belong** in the **View**. The **View** should have **as little Ruby code logic** as possible

Instead, let's move the logic to the controller!

Moving Business Logic Out

- ✧ Instance variables from the controller are available **inside the view**

```
class GreeterController < ApplicationController
  def hello
    random_names = ["Alex", "Joe", "Michael"]
    @name = random_names.sample
    @time = Time.now
    @times_displayed ||= 0
    @times_displayed += 1
  end
end
```

New Views/Greeter/hello.html.erb

```
hello.html.erb
<h1>Greetings, <%= @name %></h1>
<p>The time now is <%= @time %> </p>
<p>This page has been viewed <%= @times_displayed %> time(s)</p>
```

localhost:3000/greeter/hello

Greetings, Michael

The time now is 2015-08-12 22:40:50 -0400

This page has been viewed 1 time(s)

1 both
times?

localhost:3000/greeter/hello

Greetings, Alex

The time now is 2015-08-12 22:42:11 -0400

This page has been viewed 1 time(s)



Instance Variables in Rails

- ✧ Unlike some other web frameworks (Servlets), you **cannot “store” values in the controller’s instance variables** in between requests
- ✧ Alternatives?
 - Session
 - Database



Summary

- ✧ Keep business logic **out of the view**
- ✧ Instance variables **in the controller** are **available to view**
- ✧ Instance variables **do not stick around** between requests

What's Next?

- ✧ Helpers

