

Lesson 8:

Introducing Controllers, Layouts, Views and Styling

Objectives

Understand Rails CSS handling

Determine the layout for a view

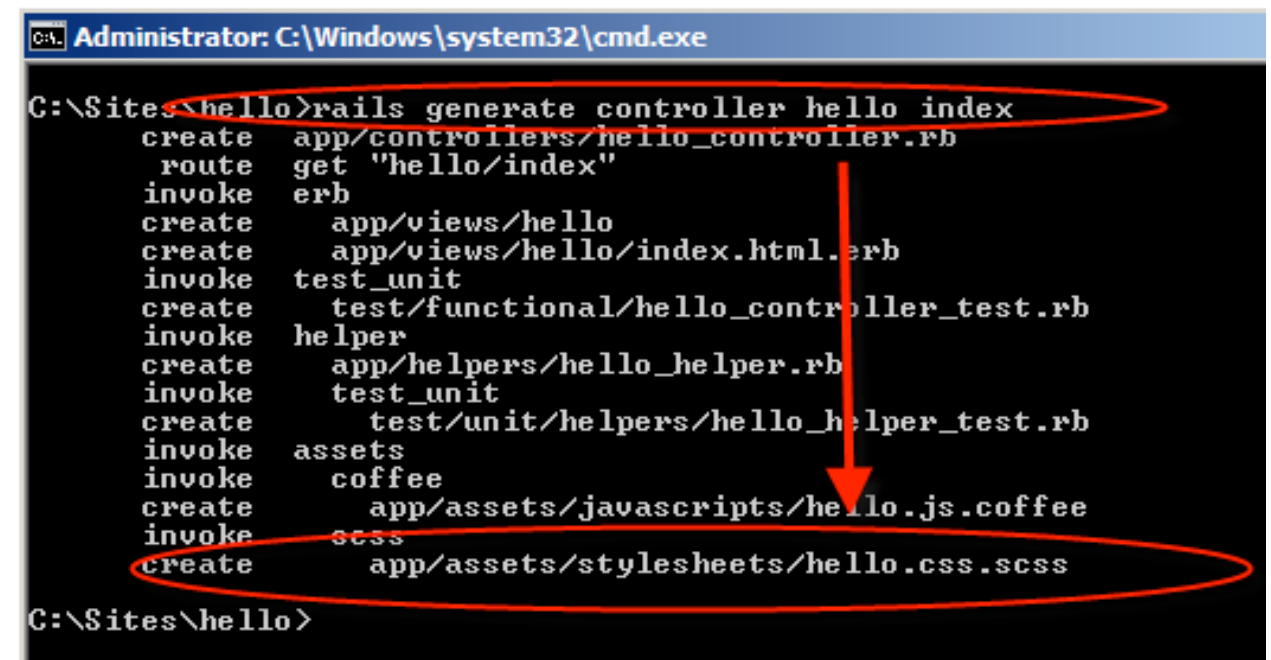
Use view content within a layout

Set a default page

How does generating a controller generate a css file?

Rails 3.1 introduced asset management which provides a centralized place to manage site-wide CSS

The rails generate controller command creates a default CSS file for the controller's default.



```
C:\Windows\system32\cmd.exe
C:\Sites\hello>rails generate controller hello index
create  app/controllers/hello_controller.rb
route  get "hello/index"
invoke erb
create  app/views/hello
create  app/views/hello/index.html.erb
invoke test_unit
create  test/functional/hello_controller_test.rb
invoke helper
create  app/helpers/hello_helper.rb
invoke test_unit
create  test/unit/helpers/hello_helper_test.rb
invoke assets
invoke coffee
create  app/assets/javascripts/hello.js.coffee
invoke scss
create  app/assets/stylesheets/hello.css.scss
C:\Sites\hello>
```

What is a layout?

A layout is an ERB template which serves as a “master” template

Layouts are defined in `app/views/layouts`

Rails provides a default `application.html.erb` layout which runs for all requested templates unless another is specified

It also includes a `stylesheet_link_tag` expression which causes links to two CSS files to be inserted and includes a `yield` expression specifying where the requested template content is inserted

What is a layout?

```
<!DOCTYPE html>
<html>
<head>
  <title>Hello</title>
  <%= stylesheet_link_tag "application", :media =>
    "all" %>
  <%= javascript_include_tag "application" %>
  <%= csrf_meta_tags %>
</head>
<body>
  <%= yield %>
</body>
</html>
```

What CSS is included by the default layout?

Two CSS files are included in a requested template by the default layout from `app/assets/stylesheets`:

`application.css`: potentially shared by all site pages

`hello.css.scss`: created by rails generate controller for generated view templates

Both are included in templates affected by the default layout.

Sass is an extended version of CSS supported by Rails, which is implemented in `.scss` files:

<http://sass-lang.com/>

What CSS is included by the default layout?

127.0.0.1:3000/hello/

Hello#index

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

```
1 <!DOCTYPE html>
2 <html>
3 <head>
4   <title>Hello</title>
5   <link href="/assets/application.css?body=1" media="all" type="text/css" />
6   <link href="/assets/hello.css?body=1" media="all" type="text/css" />
7   <script src="/assets/jquery.js?body=1" type="text/javascript" />
8   <script src="/assets/jquery_ujs.js?body=1" type="text/javascript" />
9   <script src="/assets/hello.js?body=1" type="text/javascript" />
10  <script src="/assets/application.js?body=1" type="text/javascript" />
```

Exercise:

**Configuring site wide and
template specific CSS**

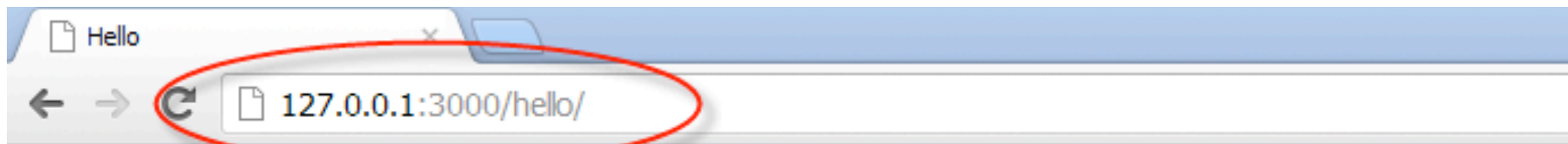
What are the options for determining the layout for a view?

Generally, a layout runs for every requested view template. The layout which runs is determined in one of these ways:

1. A layout with a name matching the requested view runs, if available
2. The controller for a view specifies a particular layout using its layout variable
3. The application.html.erb layout runs by default if no other layout is specified

How do you determine the layout based on the controller name?

Rails looks for a layout matching the requested controller



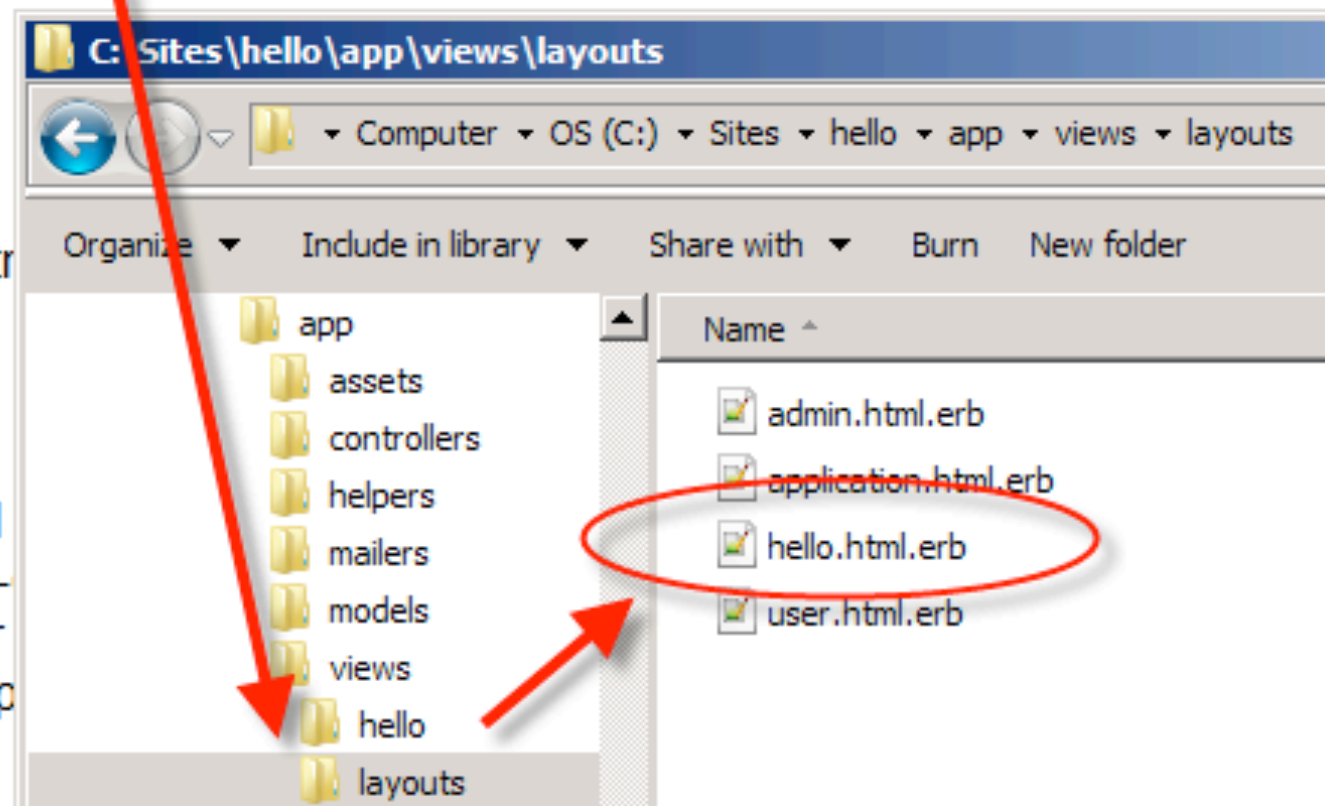
hello.html.erb layout

Hello#index

Find me in app/views/hello/index.htm

Ode to Williamsburg.

Kogi 3 wolf moon mixtape, narwhal
artisan. +1 VHS truffaut vinyl single-
heard of them dreamcatcher keytar
jean shorts flexitarian portland you p
booth portland food truck quinoa.



Exercise:

Creating a view specific layout

How do you determine the layout from within the controller?

A controller can specify the layout for its view by assigning its layout variable. The value could be set as a string or by a method.

```
class HelloController < ApplicationController
  layout "admin"
  def index
  end
end
```

Exercise:
Determining the
layout from the controller

How do you assign layout content from a view?

Remember, HTML page structure (e.g., <head>) is normally set in the layout, not the view.

A view templates can implement a `content_for` method to assign content for use by its layout. To assign content within a view:

```
<% content_for :page_title do %>
  Blog
<% end %>
```

To use assigned content within a layout

```
<title>Greetings.com - <%= yield :page_title %></title>
```

Exercise:
Assigning layout
content from its view

How do you change the Rails home page?

Rails displays content at `public/index.html` as its site root. By default, this is the Rails “Welcome aboard” page.

This page is not a template and cannot include dynamic content.

Uncomment `root :to =>` in `config/routes.rb` and modify this to assign the desired controller and action

```
# controller is home, action is index  
root :to => 'hello#index'
```

Delete the default `public/index.html` site root page and restart the Rails server.

Lab