



Rails App with HTTParty

(No DB)

Httparty integration - Gemfile

- Let's tell our app to load HTTParty gem

...

```
gem 'httparty'
```

...

```
Installing multi_xml 0.5.5
Installing httparty 0.13.1
Using multi_json 1.10.1
Using jbuilder 2.0.7
Using jquery-rails 3.1.0
Using tilt 1.4.1
Using sprockets 2.11.0
Using sprockets-rails 2.1.3
Using rails 4.1.1
Using rdoc 4.1.1
Using sass 3.2.19
Using sass-rails 4.0.3
Using sdock 0.4.0
Using spring 1.1.3
Using sqlite3 1.3.9
Using turbolinks 2.2.2
Using uglifier 2.5.0
Your bundle is complete!
Use `bundle show [gemname]` to see where a bundled gem is installed.
Post-install message from httparty:
When you HTTParty, you must party hard!
hazink1-m11:my_first_app hazink1$ _
```

After running
\$bundle (or \$bundle install)

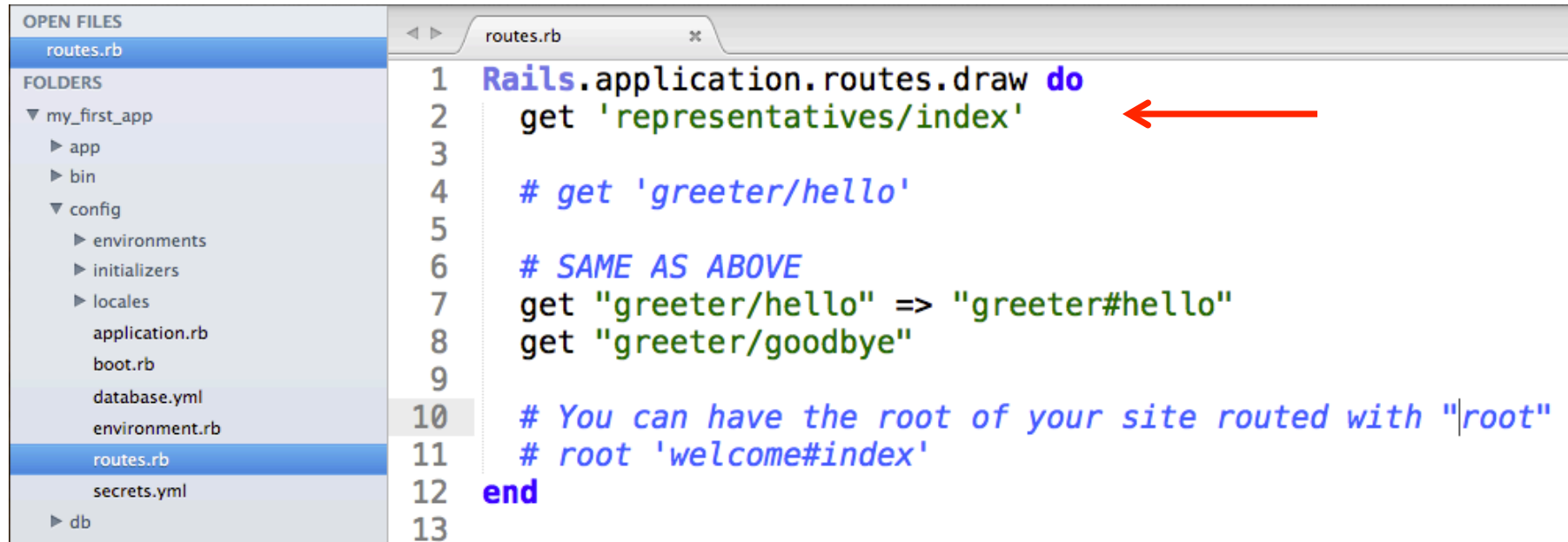
Need to restart the server
after running bundler for
changes to take effect!

Reps by state example

- Let's show Representatives based on state
- Generate Reps Controller 
- `$rails g controller representatives index`

```
hazink1-m11:my_first_app hazink1$ rails g controller representatives index
  create  app/controllers/representatives_controller.rb
  route   get 'representatives/index'
  invoke  erb
  create  app/views/representatives
  create  app/views/representatives/index.html.erb
  invoke  test_unit
  identical test/controllers/representatives_controller_test.rb
  invoke  helper
  identical app/helpers/representatives_helper.rb
  invoke  test_unit
  identical test/helpers/representatives_helper_test.rb
  invoke  assets
  invoke  coffee
  identical app/assets/javascripts/representatives.js.coffee
  invoke  scss
  identical app/assets/stylesheets/representatives.css.scss
hazink1-m11:my_first_app hazink1$ _
```

Reps by state – config/routes.rb



```
1 Rails.application.routes.draw do
2   get 'representatives/index'
3
4   # get 'greeter/hello'
5
6   # SAME AS ABOVE
7   get "greeter/hello" => "greeter#hello"
8   get "greeter/goodbye"
9
10  # You can have the root of your site routed with "root"
11  # root 'welcome#index'
12 end
13
```

Representative model

- Create representative.rb under app/models



The screenshot shows a code editor with a file explorer on the left and a code editor on the right. The file explorer shows a project structure with folders like 'my_first_app', 'app', 'assets', 'controllers', 'helpers', 'mailers', and 'models'. The 'models' folder is expanded, showing 'concerns' and 'representative.rb'. The code editor shows the content of 'representative.rb' with the following code:

```
1 class Representative
2   include HTTParty
3
4   base_uri 'http://whoismyrepresentative.com'
5   default_params output: "json"
6   format :json
7
8   def self.for state
9     get("/getall_reps_bystate.php", query: {state: state})["results"]
10  end
11 end
```

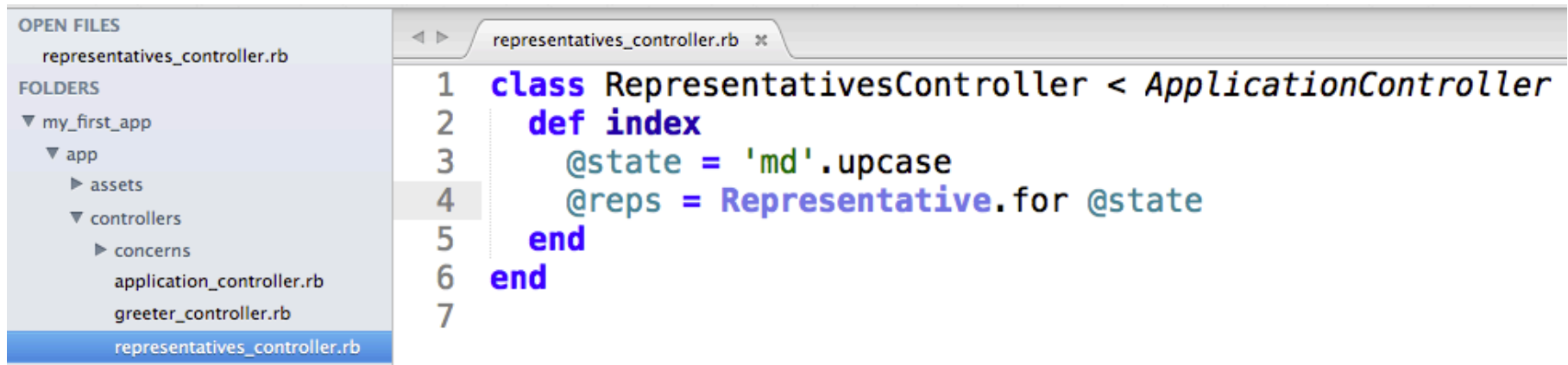
By convention, controllers are named plural and model is named singular...
(Think of it as representing a single row in the DB)

Also, notice how HTTParty does not have to be **required** (thanks Bundler!)

Representatives Controller

Assume MD
for now...

- Fill in `index` action

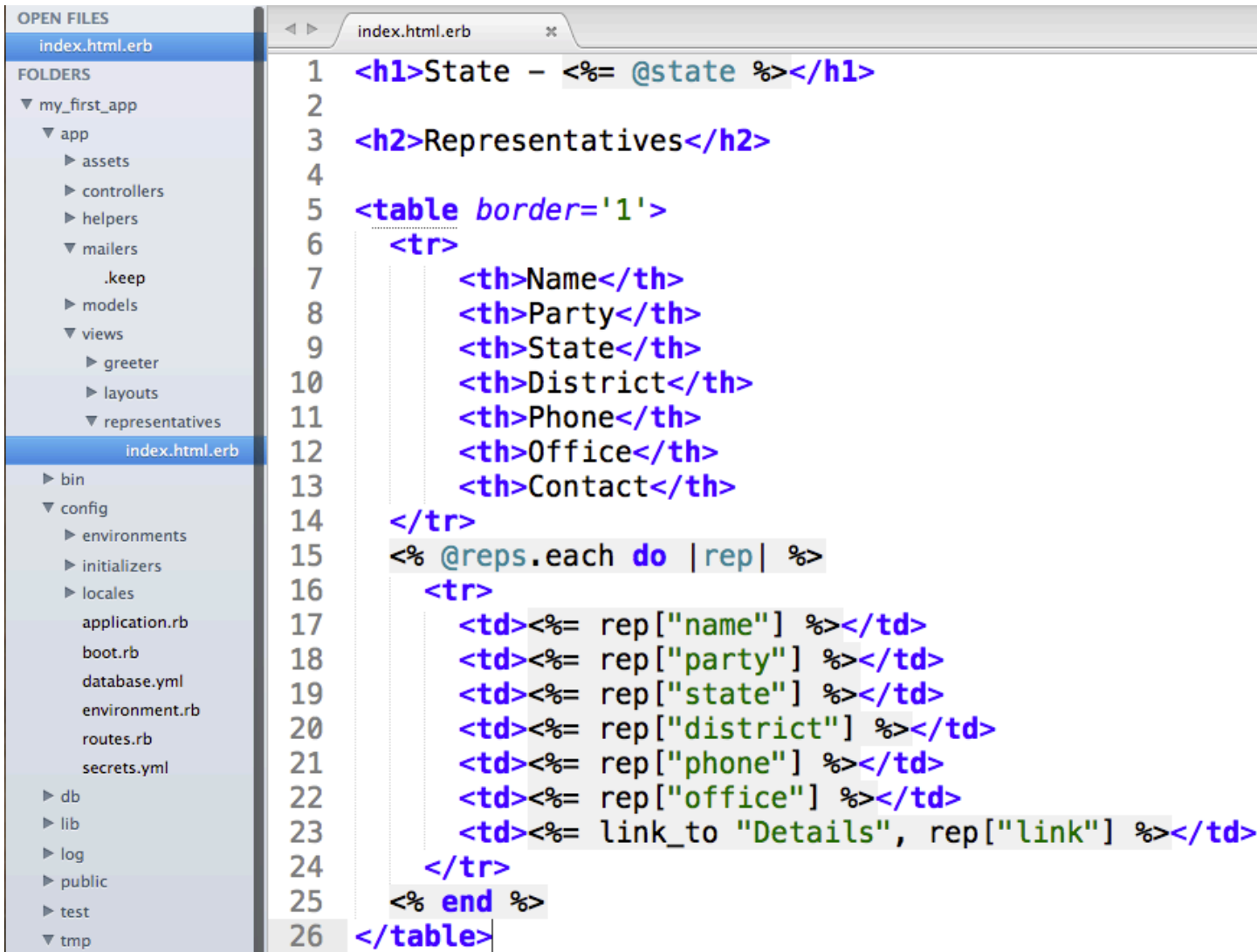


The screenshot shows a code editor with a file explorer on the left and a code editor on the right. The file explorer shows a project structure with a folder 'my_first_app' containing subfolders 'app', 'assets', and 'controllers'. The 'controllers' folder contains three files: 'application_controller.rb', 'greeter_controller.rb', and 'representatives_controller.rb'. The 'representatives_controller.rb' file is selected. The code editor shows the following code:

```
1 class RepresentativesController < ApplicationController
2   def index
3     @state = 'md'.upcase
4     @reps = Representative.for @state
5   end
6 end
7
```

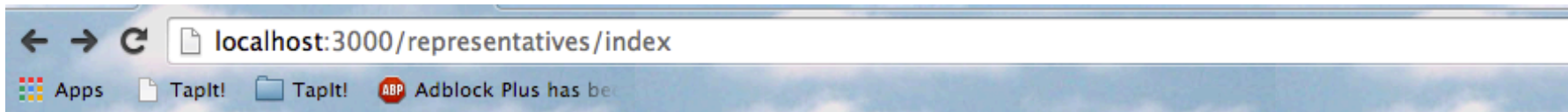
Notice, how the Controller did not have to require Representative...

representatives/index.html.erb



```
1 <h1>State - <%= @state %></h1>
2
3 <h2>Representatives</h2>
4
5 <table border='1'>
6   <tr>
7     <th>Name</th>
8     <th>Party</th>
9     <th>State</th>
10    <th>District</th>
11    <th>Phone</th>
12    <th>Office</th>
13    <th>Contact</th>
14  </tr>
15  <%= @reps.each do |rep| %>
16    <tr>
17      <td><%= rep["name"] %></td>
18      <td><%= rep["party"] %></td>
19      <td><%= rep["state"] %></td>
20      <td><%= rep["district"] %></td>
21      <td><%= rep["phone"] %></td>
22      <td><%= rep["office"] %></td>
23      <td><%= link_to "Details", rep["link"] %></td>
24    </tr>
25  <%= end %>
26 </table>
```


What does it look like?



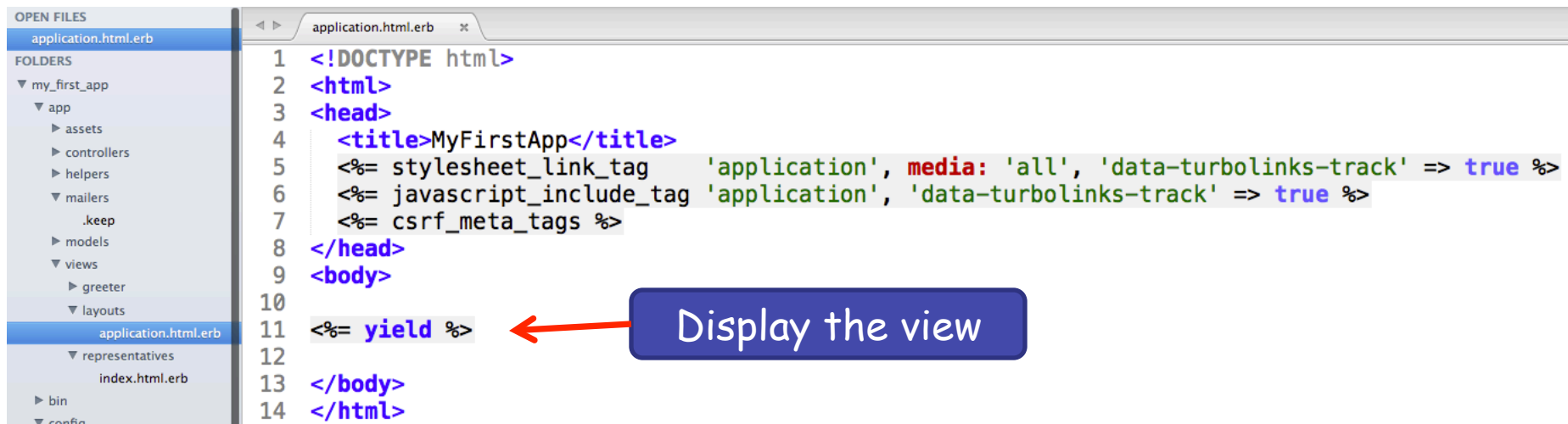
State - MD

Representatives

Name	Party	State	District	Phone	Office	Contact
Elijah Cummings	D	MD	7	202-225-4741	2235 Rayburn House Office Building	Details
John Delaney	D	MD	6	202-225-2721	1632 Longworth House Office Building	Details
Donna Edwards	D	MD	4	202-225-8699	2445 Rayburn House Office Building	Details
Steny Hoyer	D	MD	5	202-225-4131	1705 Longworth House Office Building	Details
Andy Harris	R	MD	1	202-225-5311	1533 Longworth House Office Building	Details
C. Ruppertsberger	D	MD	2	202-225-3061	2416 Rayburn House Office Building	Details
John Sarbanes	D	MD	3	202-225-4016	2444 Rayburn House Office Building	Details
Chris Van Hollen	D	MD	8	202-225-5341	1707 Longworth House Office Building	Details

Layout

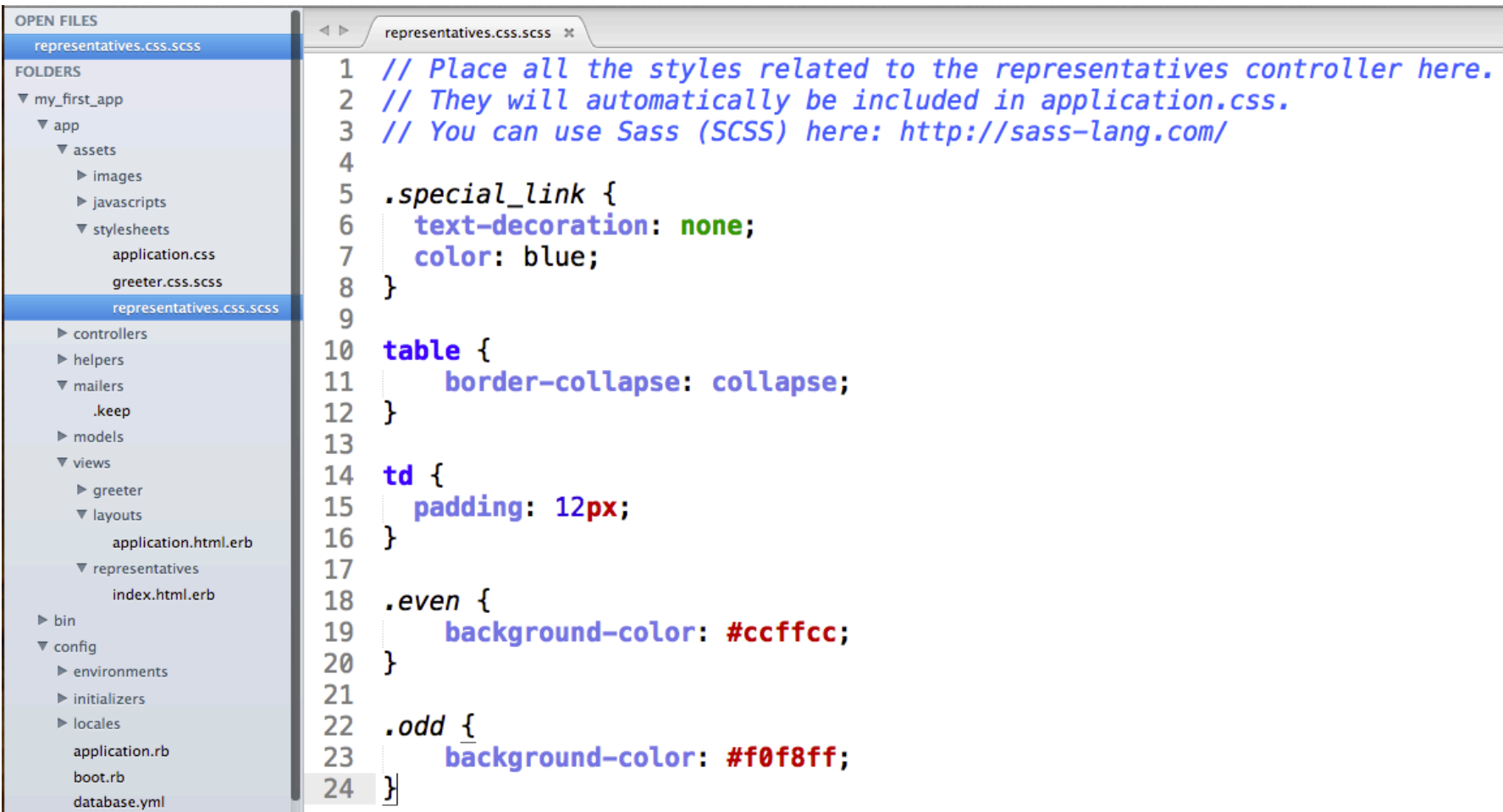
- views/layout/application.html.erb serves as view's container (unless overridden)



```
1 <!DOCTYPE html>
2 <html>
3 <head>
4   <title>MyFirstApp</title>
5   <%= stylesheet_link_tag 'application', media: 'all', 'data-turbolinks-track' => true %>
6   <%= javascript_include_tag 'application', 'data-turbolinks-track' => true %>
7   <%= csrf_meta_tags %>
8 </head>
9 <body>
10
11 <%= yield %>
12
13 </body>
14 </html>
```

Display the view

Adding some CSS



```
OPEN FILES
representatives.css.scss

FOLDERS
▼ my_first_app
  ▼ app
    ▼ assets
      ► images
      ► javascripts
    ▼ stylesheets
      application.css
      greeter.css.scss
      representatives.css.scss
    ► controllers
    ► helpers
    ▼ mailers
      .keep
    ► models
    ▼ views
      ► greeter
      ▼ layouts
        application.html.erb
        representatives
          index.html.erb
    ► bin
  ▼ config
    ► environments
    ► initializers
    ► locales
    application.rb
    boot.rb
    database.yml

1 // Place all the styles related to the representatives controller here.
2 // They will automatically be included in application.css.
3 // You can use Sass (SCSS) here: http://sass-lang.com/
4
5 .special_link {
6   text-decoration: none;
7   color: blue;
8 }
9
10 table {
11   border-collapse: collapse;
12 }
13
14 td {
15   padding: 12px;
16 }
17
18 .even {
19   background-color: #ccffcc;
20 }
21
22 .odd {
23   background-color: #f0f8ff;
24 }
```

If you are new to CSS -
go to <http://www.w3schools.com/css/>

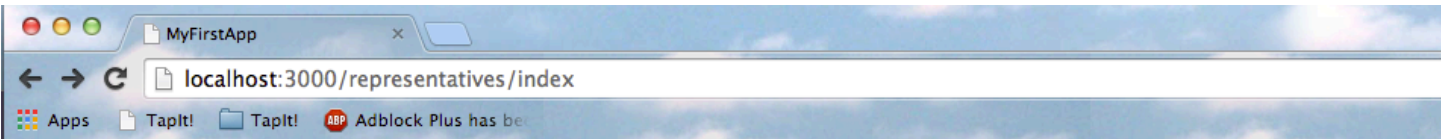
Modify View to include CSS classes

cycle (Rails) helper to cycle thru each rep with a different value

Final argument is a Hash, where one of the entries could be a :class

```
1 <h1>State - <%= @state %></h1>
2
3 <h2>Representatives</h2>
4
5 <table>
6   <tr>
7     <th>Name</th>
8     <th>Party</th>
9     <th>State</th>
10    <th>District</th>
11    <th>Phone</th>
12    <th>Office</th>
13    <th>Contact</th>
14  </tr>
15  <% @reps.each do |rep| %>
16    <tr class="<%= cycle('even', 'odd') %>">
17      <td><%= rep["name"] %></td>
18      <td><%= rep["party"] %></td>
19      <td><%= rep["state"] %></td>
20      <td><%= rep["district"] %></td>
21      <td><%= rep["phone"] %></td>
22      <td><%= rep["office"] %></td>
23      <td><%= link_to "Details", rep["link"], class: "special_link" %></td>
24    </tr>
25  <% end %>
26 </table>
```

What does it look like now?



State - MD

Representatives

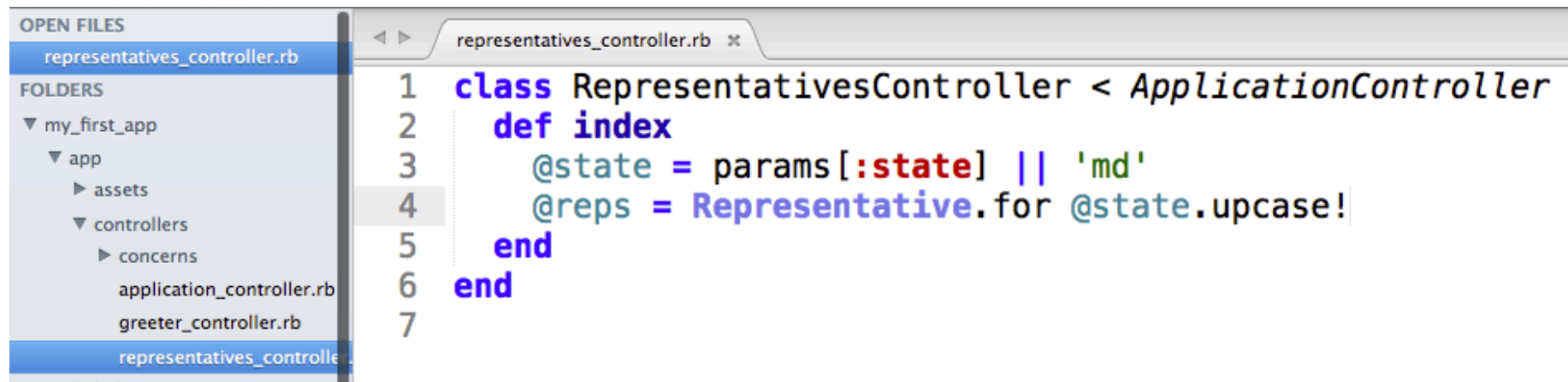
Name	Party	State	District	Phone	Office	Contact
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Donna Edwards	D	MD	4	202-225-8699	2445 Rayburn House Office Building	Details
Steny Hoyer	D	MD	5	202-225-4131	1705 Longworth House Office Building	Details
Andy Harris	R	MD	1	202-225-5311	1533 Longworth House Office Building	Details
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John Sarbanes	D	MD	3	202-225-4016	2444 Rayburn House Office Building	Details
Chris Van Hollen	D	MD	8	202-225-5341	1707 Longworth House Office Building	Details

params helper

- It would be nice to specify which state you want to see the representatives for?
- No problem – just pass the state in as a request parameter and use `params Hash` to retrieve the value (name of parameter becomes a symbol/key in the Hash)
- Returns `nil` if request parameter not passed in (standard Hash behavior)

params helper (Continued)

- No changes to the Model or the View, only to the Controller

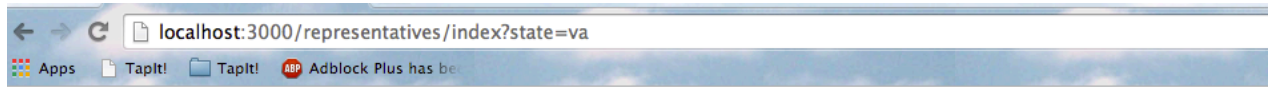


```
OPEN FILES
representatives_controller.rb

FOLDERS
▼ my_first_app
  ▼ app
    ► assets
    ▼ controllers
      ► concerns
        application_controller.rb
        greeter_controller.rb
        representatives_controller.rb

1 class RepresentativesController < ApplicationController
2   def index
3     @state = params[:state] || 'md'
4     @reps = Representative.for @state.upcase!
5   end
6 end
7
```

What does it look like now?



State - VA

Representatives

Name	Party	State	District	Phone	Office	Contact
Eric Cantor	R	VA	7	202-225-2815	303 Cannon House Office Building	Details
Gerald Connolly	D	VA	11	202-225-1492	424 Cannon House Office Building	Details
J. Forbes	R	VA	4	202-225-6365	2135 Rayburn House Office Building	Details
Bob Goodlatte	R	VA	6	202-225-5431	2309 Rayburn House Office Building	Details
H. Griffith	R	VA	9	202-225-3861	1108 Longworth House Office Building	Details
Robert Hurt	R	VA	5	202-225-4711	125 Cannon House Office Building	Details
James Moran	D	VA	8	202-225-4376	2252 Rayburn House Office Building	Details
E. Rigell	R	VA	2	202-225-4215	418 Cannon House Office Building	Details
Robert Scott	D	VA	3	202-225-8351	1201 Longworth House Office Building	Details
Frank Wolf	R	VA	10	202-225-5136	233 Cannon House Office Building	Details
Robert Wittman	R	VA	1	202-225-4261	2454 Rayburn House Office Building	Details

And without a request parameter?



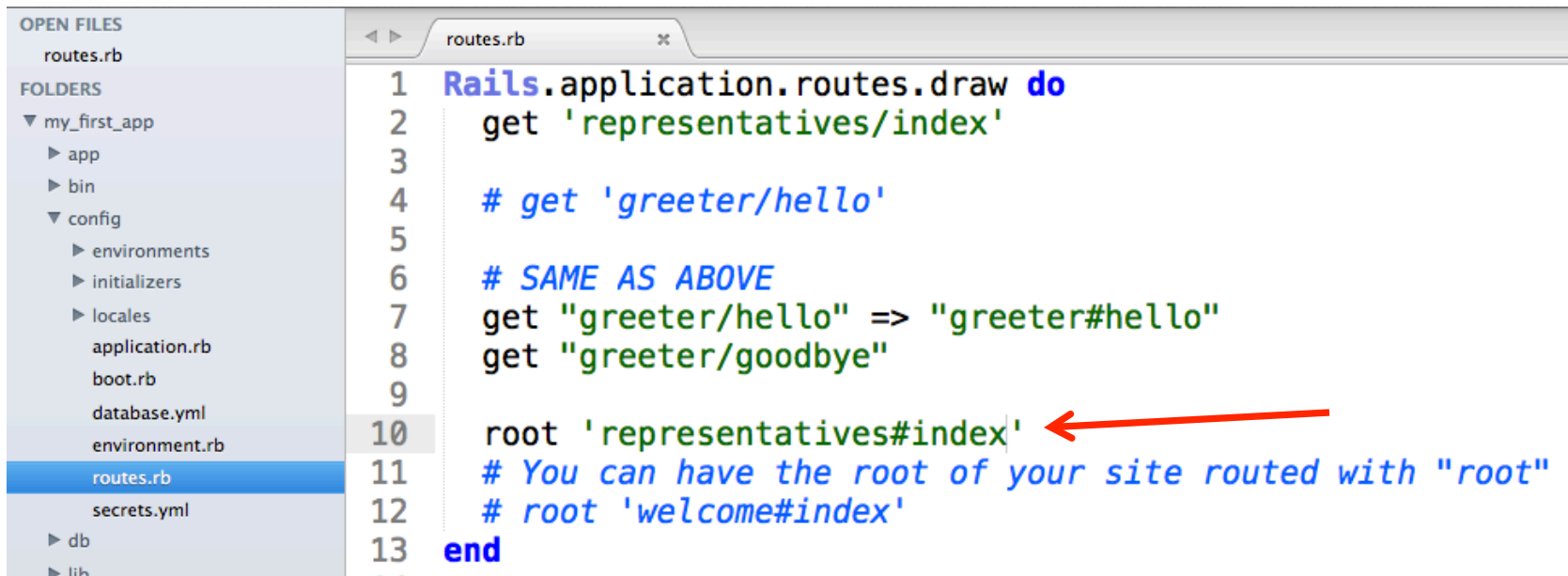
State - MD

Representatives

Name	Party	State	District	Phone	Office	Contact
Elijah Cummings	D	MD	7	202-225-4741	2235 Rayburn House Office Building	Details
John Delaney	D	MD	6	202-225-2721	1632 Longworth House Office Building	Details
Donna Edwards	D	MD	4	202-225-8699	2445 Rayburn House Office Building	Details
Steny Hoyer	D	MD	5	202-225-4131	1705 Longworth House Office Building	Details
Andy Harris	R	MD	1	202-225-5311	1533 Longworth House Office Building	Details
C. Ruppersberger	D	MD	2	202-225-3061	2416 Rayburn House Office Building	Details
John Sarbanes	D	MD	3	202-225-4016	2444 Rayburn House Office Building	Details
Chris Van Hollen	D	MD	8	202-225-5341	1707 Longworth House Office Building	Details

One final twist – root path

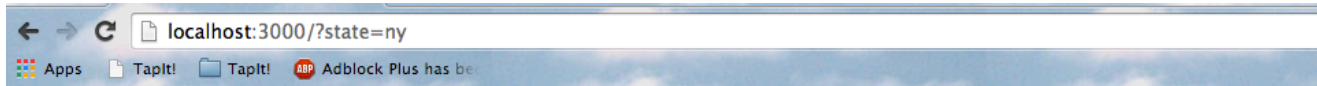
- What if we wanted the root path go to the `index` action? Just modify `routes.rb`



```
OPEN FILES
  routes.rb
FOLDERS
  ▼ my_first_app
    ► app
    ► bin
    ▼ config
      ► environments
      ► initializers
      ► locales
      application.rb
      boot.rb
      database.yml
      environment.rb
      routes.rb
      secrets.yml
    ► db
    ► lib

1  Rails.application.routes.draw do
2    get 'representatives/index'
3
4    # get 'greeter/hello'
5
6    # SAME AS ABOVE
7    get "greeter/hello" => "greeter#hello"
8    get "greeter/goodbye"
9
10   root 'representatives#index'
11   # You can have the root of your site routed with "root"
12   # root 'welcome#index'
13 end
```

One final twist – root path



State - NY

Representatives

Name	Party	State	District	Phone	Office	Contact
Timothy Bishop	D	NY	1	202-225-3826	306 Cannon House Office Building	Details
Joseph Crowley	D	NY	14	202-225-3965	1436 Longworth House Office Building	Details
Yvette Clarke	D	NY	9	202-225-6231	2351 Rayburn House Office Building	Details
Chris Collins	R	NY	27	202-225-5265	1117 Longworth House Office Building	Details
Eliot Engel	D	NY	16	202-225-2464	2161 Rayburn House Office Building	Details
Christopher Gibson	R	NY	19	202-225-5614	1708 Longworth House Office Building	Details
Michael Grimm	R	NY	11	202-225-3371	512 Cannon House Office Building	Details
Brian Higgins	D	NY	26	202-225-3306	2459 Rayburn House Office Building	Details
Richard Hanna	R	NY	22	202-225-3665	319 Cannon House Office Building	Details