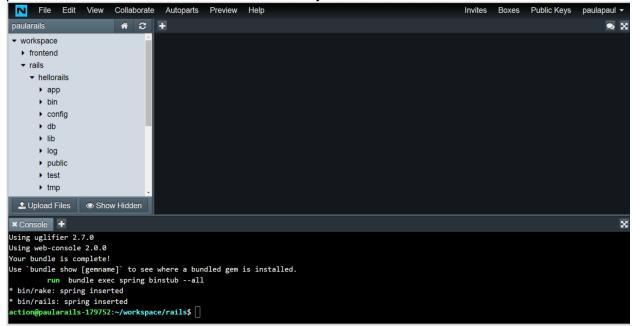
rails new hello world

Rails has created a 'hello_world' directory under your rails working directory, and has placed all sorts of files and folders there for you:



Change to the hello_world directory and enter a command to 'scaffold' a web page:

cd hello_world

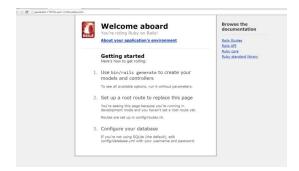
rails generate controller Pages home

We're done! You've just created a Rails application with a Home page that can be styled with HTML/CSS.

To see what you have so far, start your rails server by entering:

rails s ...or... rails server

At http://localhost:3000, within your browser, you should now see a Rails Application!

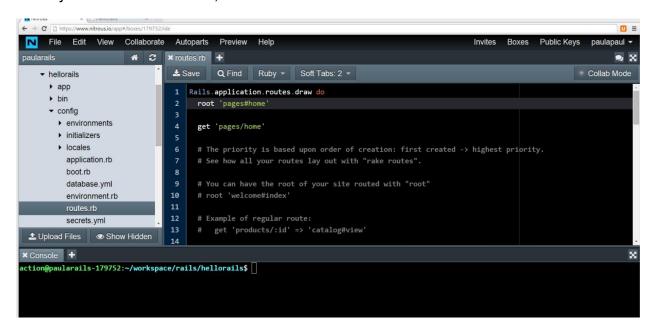


Click on the application file in .../config/routes.rb.

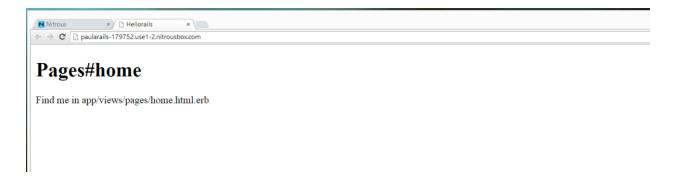
At the top of the file, enter the line:

root 'pages#home'

Once your file looks like this, be sure to save it:



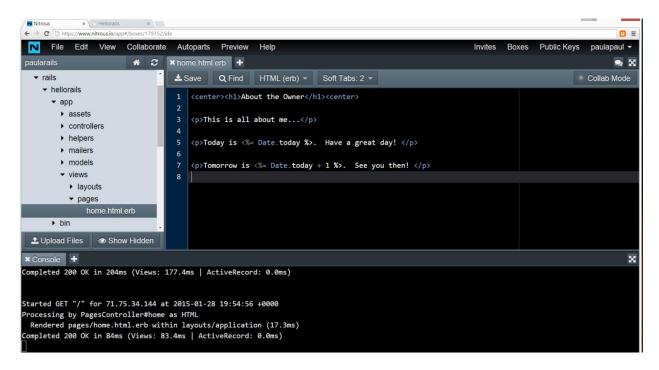
Restart your server, and check out your application now!



There it is! Your home page.

Now, let's use some HTML and styling to make it look a little better, and include a little Ruby code as well.

The default page created by Rails tells us where to find the page, in **app/views/pages/home.html.erb**, so open that file and let's write a little more code...



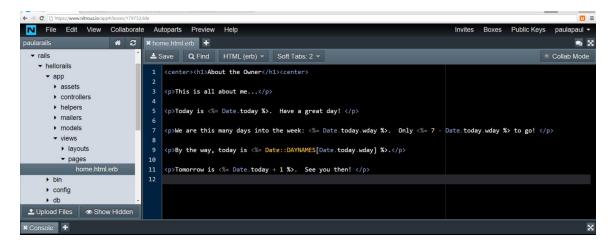
NOTE: The <center> tag shown above is not supported by HTML5, which is why we did not use it in class!

Notice we've added some HTML tags to create the heading, and have included some Embedded RuBy Code (erb). Files named <filename>.html.erb are usually found in the views directory of your app folder, and can contain a mixture of HTML tags with embedded dynamic functions provided by the Ruby language.

This is the power of Ruby on Rails...

Rails is a framework that ties together Ruby and front end HTML/CSS/Javascript to create dynamic web applications.

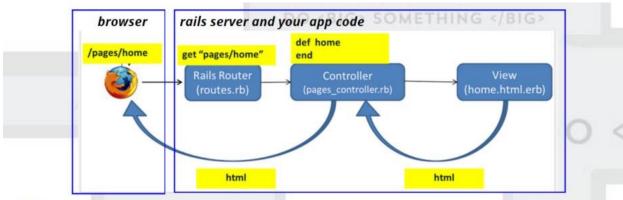
What do you think happens if we change a few more lines, and do the following:



Can you update your home page to tell you when it is a class day?

We'll see the concept of blocks of reusable code now as we look more closely at the anatomy of a rails application. First, we'll go back to our 'Hello World' Rails app and add a Model to our existing Hello View and Controller.

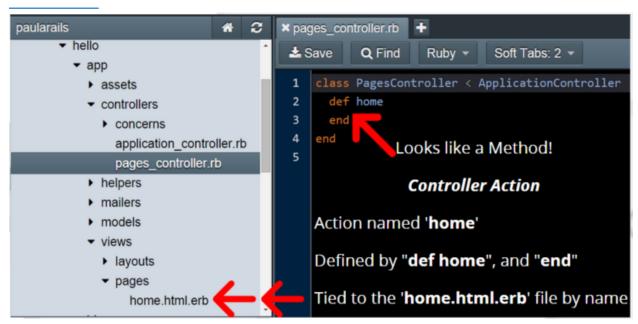
We reviewed the MVC flow in class:



- When you enter an URL in the browser, e.g. http://localhost:3000/pages/home, If the Rails server is running, the request first reaches the **Rails router**. (remember editing our routes.rb file?)
- The Router checks the config/routes.rb file to see if there is an entry matching the URL requested,
 e.g. get "pages/home". A route matches incoming URL '/pages/home' to home action
 (method) in Pages controller. So the request is forwarded to the Pages controller, home action.
- If there are no matching routes, a routing error html page is shown to the user (you'll definitely see what these look like, and how to troubleshoot them).
- When the request reaches the *Pages controller*, *home action* (method), it generates the *view*.
- By default, each controller action fetches the view file associated with it by name, populates it with data (if any) and sends it to the user (the browser)
- So, the *home action* of the *Pages controller* fetches the */views/pages/home.html.erb* file, executes additional controller logic if any, and sends the resulting HTML to the user.

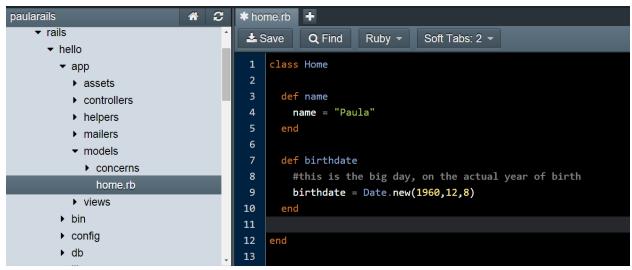
Our Hello rails app only has a View (app/views/pages/home.html.erb) and Controller (app/controllers/pages_controller.rb). The Pages controller has an empty method called 'home', to match the view (home.html.erb).

The methods in a controller are called 'Actions'.

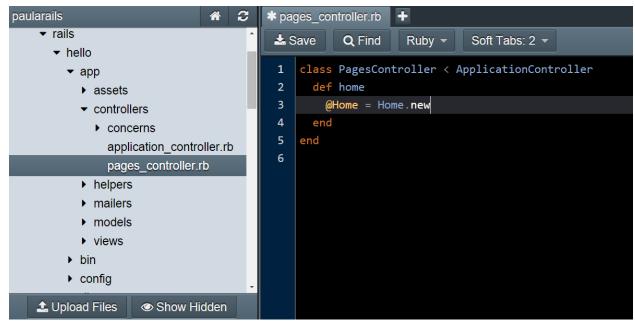


The Model files in your app allow you to store and manipulate data and persistent information associated with your app. Let's add a model to your Hello app.

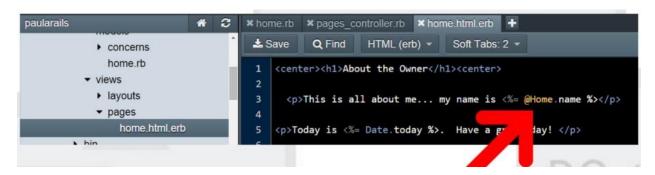
To do this, right/control click on the 'models' folder in your Rails app and add a new file, named 'home.rb', then add some information about yourself:



Save your model file, then open your Pages controller, and connect the information in your model to the controller, in the 'home' action:



Finally, flow that information in your Model into the View (via the Controller) by including some embedded Ruby in your app/views/pages/home.html.erb file:



Save all your files, then start your Rails server in terminal:

cntrl-c, then **rails s** (if your server was still running)

(Always be sure that you are in the workspace/rails/hello working directory!)

Preview your app at localhost:3000 in the browser to see what happens! Information from your Model is presented in the View, courtesy of your Controller...

About the Owner

This is all about me... my name is Paula

Model files are where we can integrate databases; front-end developers can create great looking styles in the View files, and we can tie it all together with additional logic in Controllers. MVC!

Now would be a great time to add and commit your files to git!