



Ruby on Rails

CSE 190M, Spring 2009

Week 5

Installing Rails

- First, install Ruby with RubyGems
- Then, install the Rails gem

```
gem install rails -version=2.3.2 --include-dependencies
```
- Test that Rails is now installed in the terminal by just typing "rails". If it is installed, you should get a description on how to use it

```
rails
```

What is Ruby on Rails?

- Rails is...
 - Written in Ruby
 - A web development framework
 - For development of web applications written in Ruby
- Benefits of Rails
 - Built-in functionality
 - Encourages good software development practices
 - Open source and lots of community support

What is Ruby on Rails?



Disadvantages of Rails

- Steep learning curve
 - Common Terminal Commands
 - cd – change directory
 - ls – list file and folders in current folder
- Lots of "magic"
 - Not always clear how things are being done
 - Not always obvious how to change or debug Ruby Magic
- Deployment.....

Creating a New Rails App

- We simply call the Rails gem and give it the path to our new application
- Create your Rails application!
`rails -d mysql path/to/application`
- Example
 - `rails -d mysql my_app`
- This will spit out a bunch of files that compose your new Ruby web application

Starting Your Application

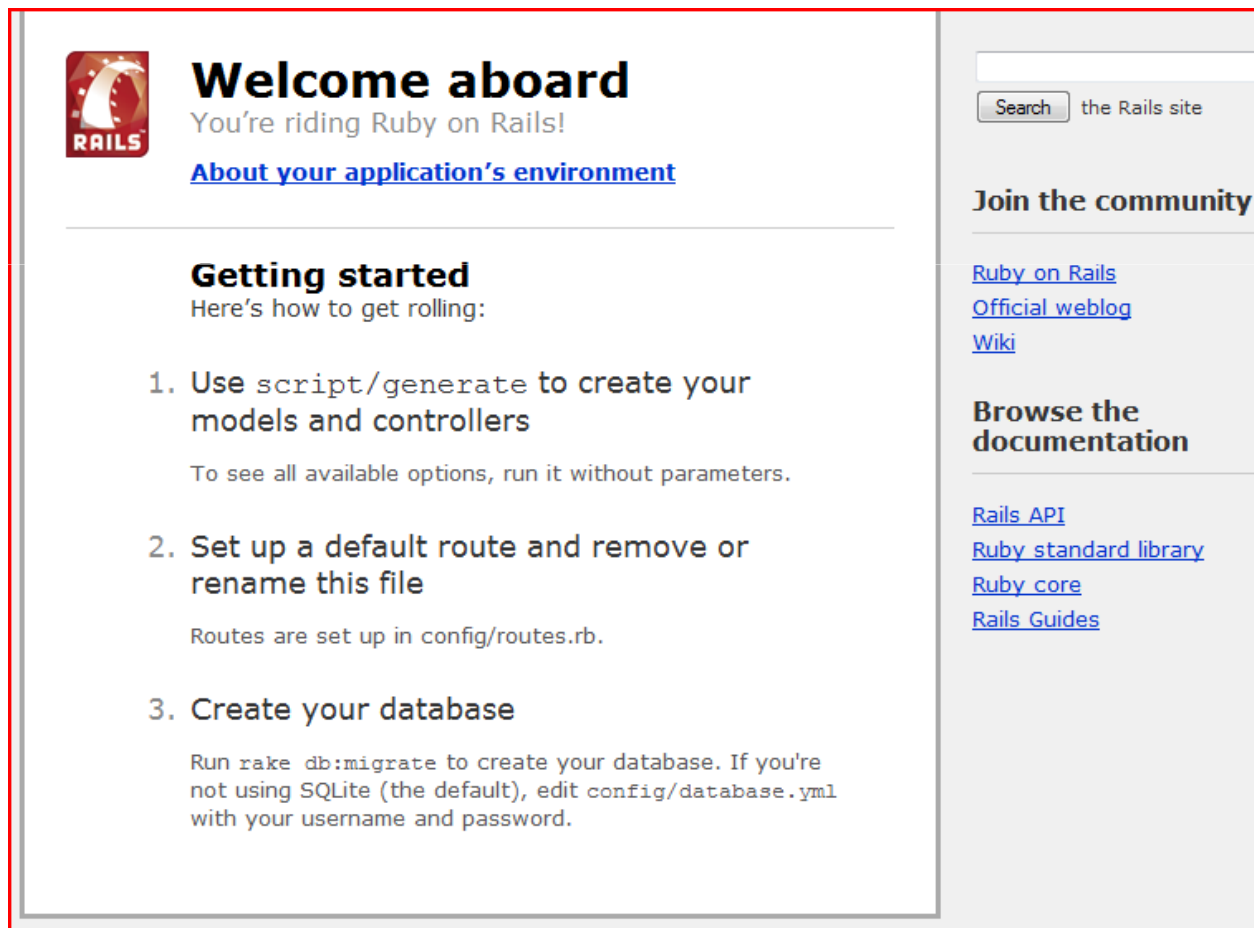
- If you are working on your own computer, you must start your rails app
 - Open your application folder (C:\my_app)
 - Start Webrick, the built-in webserver
`ruby script/server`
- If you are working on Webster, you may need to take a few steps to start your app... details to come later...

Viewing Your Application


- Working locally
 - Open up Firefox and view the app on localhost with port 3000
 - <http://localhost:3000/>
- Working on Webster
 - Open up Firefox and navigate to your application
 - webster.cs.washington.edu/rctucker/my_app

Viewing Your Application

- A new application will show you this page



The screenshot shows the 'Welcome aboard' page for a new Rails application. It features the Rails logo, a search bar, and a sidebar with community and documentation links. The main content area provides instructions on getting started, including creating models and controllers, setting up routes, and creating a database.

 **Welcome aboard**
You're riding Ruby on Rails!
[About your application's environment](#)

Getting started
Here's how to get rolling:

1. Use `script/generate` to create your models and controllers
To see all available options, run it without parameters.
2. Set up a default route and remove or rename this file
Routes are set up in `config/routes.rb`.
3. Create your database
Run `rake db:migrate` to create your database. If you're not using SQLite (the default), edit `config/database.yml` with your username and password.

Search the Rails site

Join the community

- [Ruby on Rails](#)
- [Official weblog](#)
- [Wiki](#)

Browse the documentation

- [Rails API](#)
- [Ruby standard library](#)
- [Ruby core](#)
- [Rails Guides](#)

Navigating the Rails File System

- When we open our project (C:\my_app), we see a number of folders
- For now, we will only be interested in a few of them
 - The "app" folder, specifically "app\views"
 - The "config" folder

The "app" Folder

- The "app" folder deals with the actual code of our application.
- It will hold all of our...
 - Objects ("models"),
 - .erb files ("views"), and...
 - code to work between the two ("controllers")

The "config" Folder

- The "config" folder will be where we configure particular settings of our Rails application
- We will tell our application how to setup the URLs of our app in the "routes.rb" file
- Eventually, we will tell our app how to connect to a particular database in the "database.yml" file

Making a Custom Homepage

- Instead of the standard "Welcome Aboard" page, we want to create our own front page
- To do this, we will
 - Remove/rename the default index.html page in our "public" folder
 - Create a "index.html.erb" file in our views to represent our home page
 - Create a route in our "config\routes.rb" file tell Rails to deal our custom home page as the default instead of index.html

Custom Homepage Step-by-Step

- Delete "public\index.html" file
- Create "home" folder in "views" with "index.html.erb" file for custom home page
- In "app\controllers", create a file named home_controller that defines a class called HomeController that inherits from ApplicationController
- Create an "index" method in the home_controller
- Update routes with the following lines

```
map.home '/', :controller => 'home'  
map.connect '', :controller => 'home'
```

Update config/environment.rb

- We aren't using a database yet... so we need to keep Rails from trying to use a database
- Go to the config/environment.rb file and uncomment the following line

```
config.frameworks -= [ :active_record, :active_resource, :action_mailer ]
```

Uploading to Webster

- If you work locally and then upload your work to webster (or vice-versa), both applications needs to use the save version of rails
- Webster is currently running rails version 2.3.2
- You can install that specific version on your machine by saying

```
gem install rails -version=2.3.2 --include-dependencies
```


Homework #5

- Create an Rails application on Webster
- Create an appropriate custom homepage
- Turn in a text file with a link to your custom homepage