Beginning Ruby on Rails

Session One

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Session Overview

- Installation / Configuration
- Tools Overview
- Your First Application
- Homework

Installation

The Hardest Thing We'll Do In This Course

What We Need

- Ruby I.8.7 or I.9.2
- Rails 3.0
- SQLite 3
- Git 1.7

Windows

- Starting from scratch?
 - Use Rails Installer
 - Everything you need in one download
 - http://railsinstaller.org

Windows - DIY

- Download and Install Ruby
 - http://rubyinstaller.org
 - gem install rails
- Download and Install Git
 - http://git-scm.com

Mac OS X

- Check your Ruby version
 - ruby --version
- Have 1.8.7 already?
 - sudo gem install rails
- Download and Install Git
 - http://git-scm.com

Linux

- Check your package system
 - Does it have Ruby 1.8.7?
 - Does it have RubyGems?
 - Does it have Git?
- Install Rails using Gem
 - sudo gem install rails

Ruby Version Manager

- For Mac OS X and Linux
- Install multiple versions of Ruby
- Builds from source dev tools required
- https://rvm.beginrescueend.com

Gem Error?

- gem --version
- should be 1.3.7 or newer

gem update --system

Ready To Go?

- ruby --version
 - 1.8.7 or 1.9.2
- rails --version
 - >= 3.0
- git --version
 - >= 1.7

Tools Overview

The Bits And Pieces That Make Everything Work

Ruby

- A dynamic, open source programming language with a focus on simplicity and productivity. It has an elegant syntax that is natural to read and easy to write.
- Created by Yukihiro "Matz" Matsumoto
- http://www.ruby-lang.org/en

MINASWAN

Matz is nice and so we are nice.



Rails

- An open-source web framework that's optimized for programmer happiness and sustainable productivity. It lets you write beautiful code by favoring convention over configuration.
- Created by David Heinemeier Hanson
- http://rubyonrails.org

Gem

- RubyGems is the ruby packaging system. It provides a standard format for distributing Ruby programs and libraries, and an easy to use tool for managing the installation of gem packages.
- https://rubygems.org

Bundler

- Bundler manages an application's dependencies through its entire life across many machines systematically and repeatably.
- http://gembundler.com

Git

- Git is a free & open source, distributed version control system designed to handle everything from small to very large projects with speed and efficiency.
- http://git-scm.com
- https://github.com

Text Editors

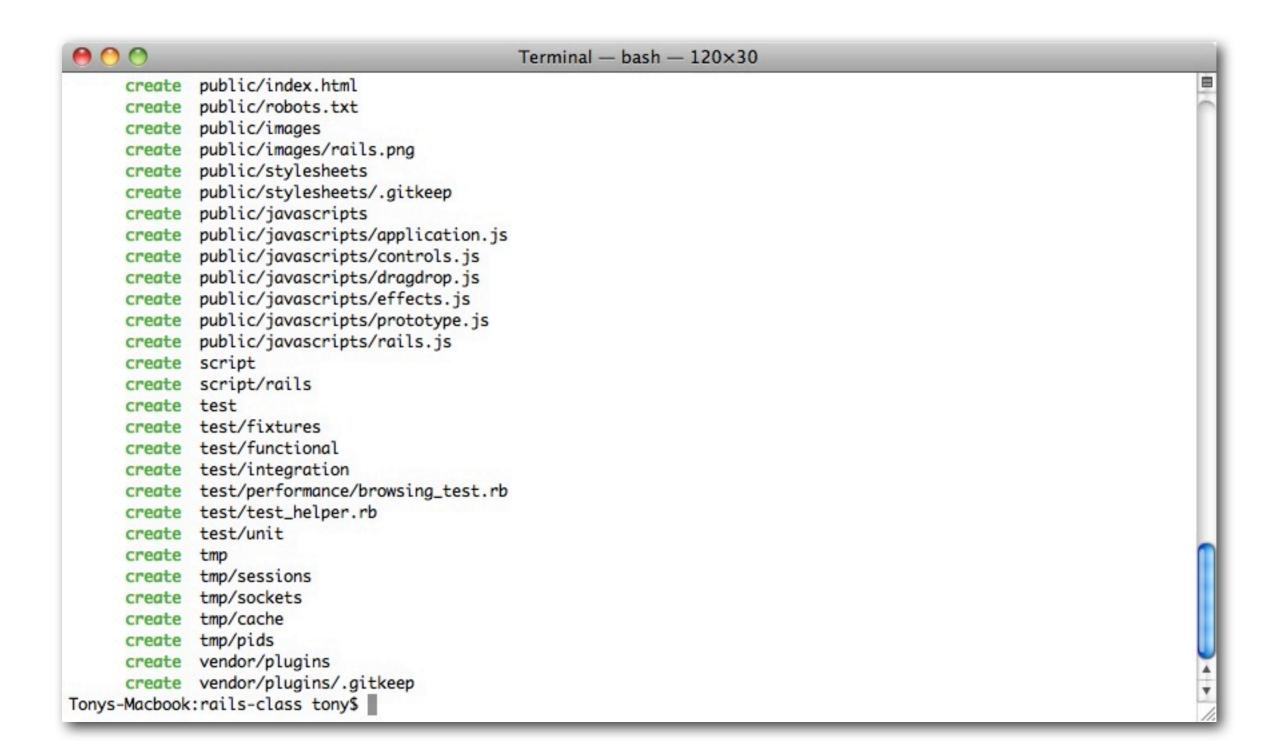
- The Classics: Emacs, Vim
- Mac Only: Textmate
- Linux: gedit, kate
- Windows: Notepad++, E Text Editor
- Cross Platform: Sublime Text 2, Redcar

Your First Web App

The Moment We've All Been Waiting For...

Create The App

- Open a command prompt
- Create a directory for this class:
 - mkdir rails-class
 - cd rails-class
- Type this command:
 - rails new blog



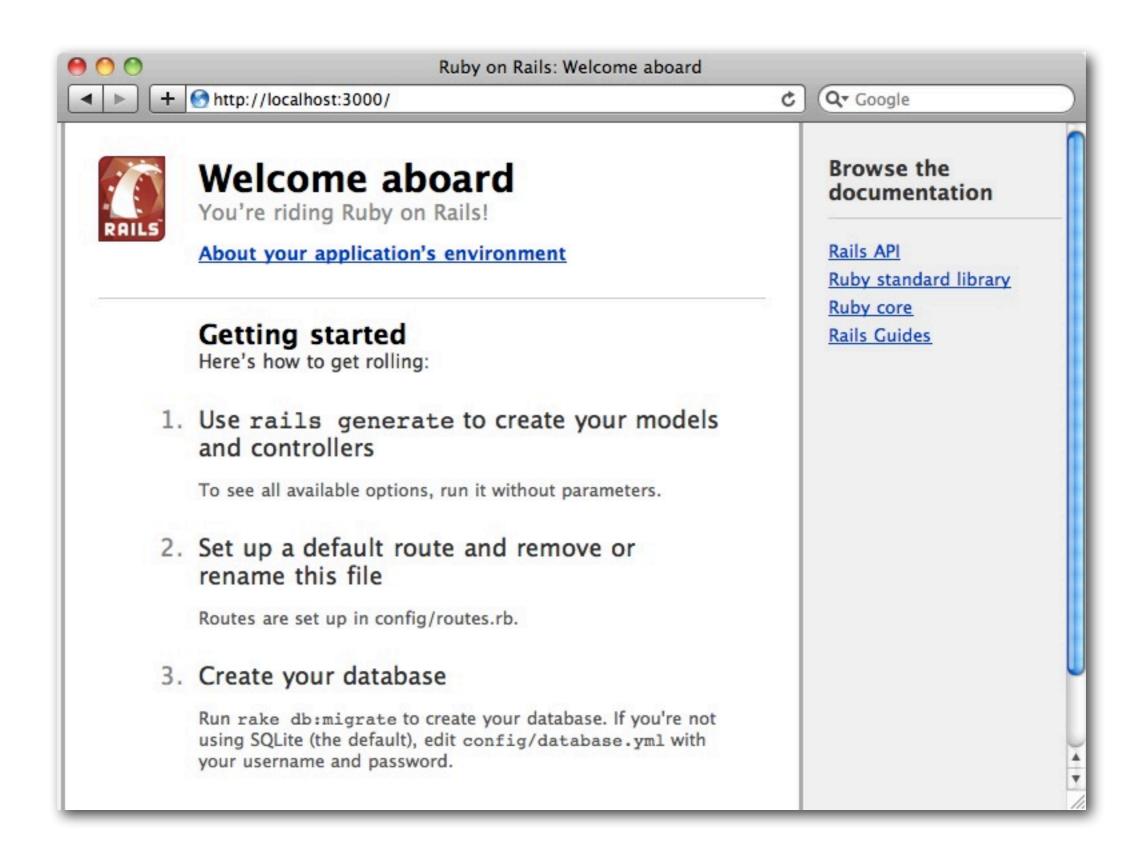
Prepare The App

- cd blog
- Install dependencies:
 - bundle install
- Create the database:
 - rake db:create

```
000
                                               Terminal - bash - 120×30
Tonys-Macbook:blog tony$ bundle install
Using rake (0.8.7)
Using abstract (1.0.0)
Using activesupport (3.0.6)
Using builder (2.1.2)
Using i18n (0.5.0)
Using activemodel (3.0.6)
Using erubis (2.6.6)
Using rack (1.2.3)
Using rack-mount (0.6.14)
Using rack-test (0.5.7)
Using tzinfo (0.3.27)
Using actionpack (3.0.6)
Using mime-types (1.16)
Using polyglot (0.3.1)
Using treetop (1.4.9)
Using mail (2.2.19)
Using actionmailer (3.0.6)
Using arel (2.0.10)
Using activerecord (3.0.6)
Using activeresource (3.0.6)
Using bundler (1.0.10)
Using thor (0.14.6)
Using railties (3.0.6)
Using rails (3.0.6)
Using sqlite3 (1.3.3)
Your bundle is complete! Use 'bundle show [gemname]' to see where a bundled gem is installed.
Tonys-Macbook:blog tony$ rake db:create
(in /Users/tony/Sites/rails-class/blog)
Tonys-Macbook:blog tony$
```

View The App

- Start the development server:
 - rails server
- Open your browser:
 - http://localhost:3000

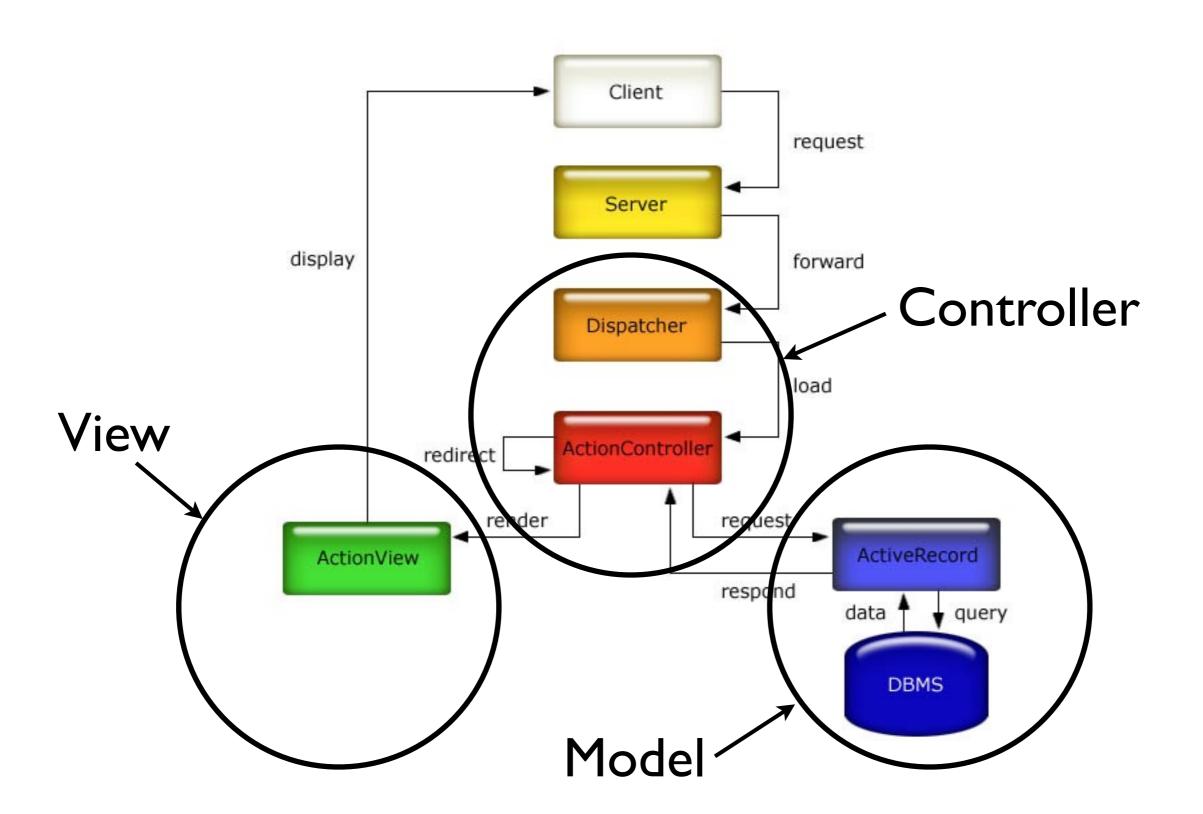


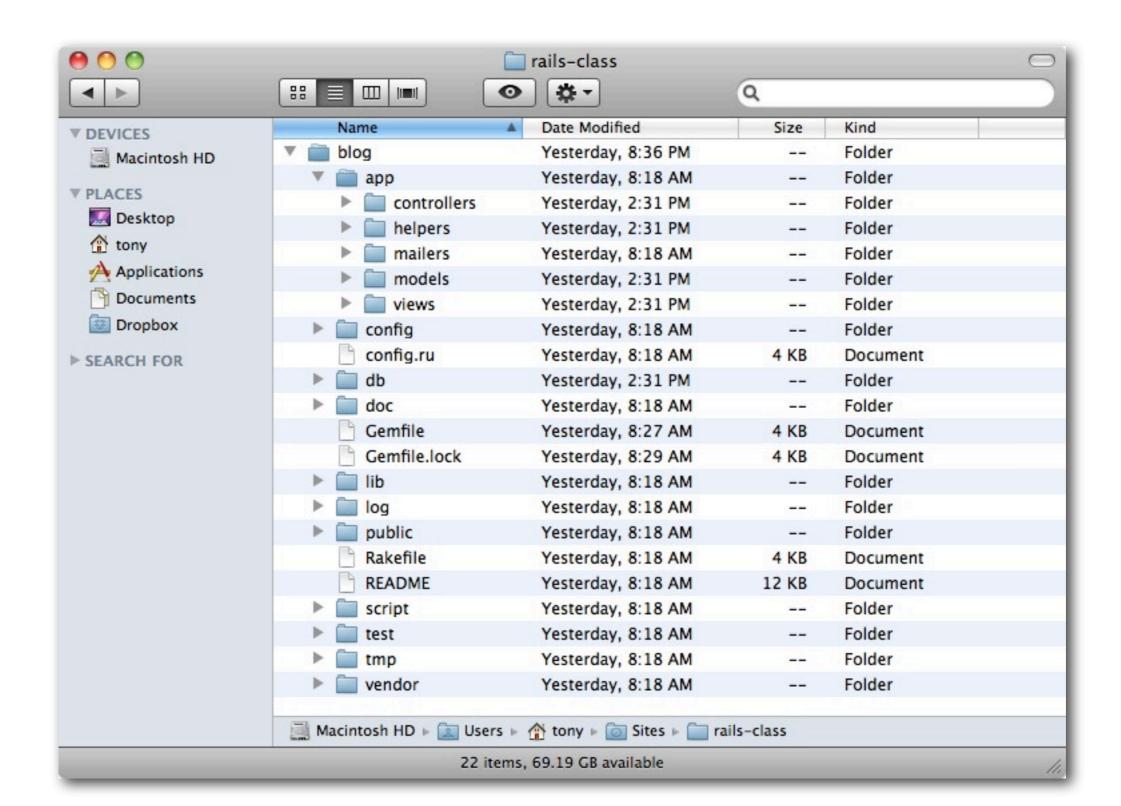
Rails Philosophy

- Convention over configuration
 - Follow the conventions and there will be very little configuration.
- DRY Don't Repeat Yourself
 - Specifying the same thing in more than one place leads to errors.

Rails Architecture

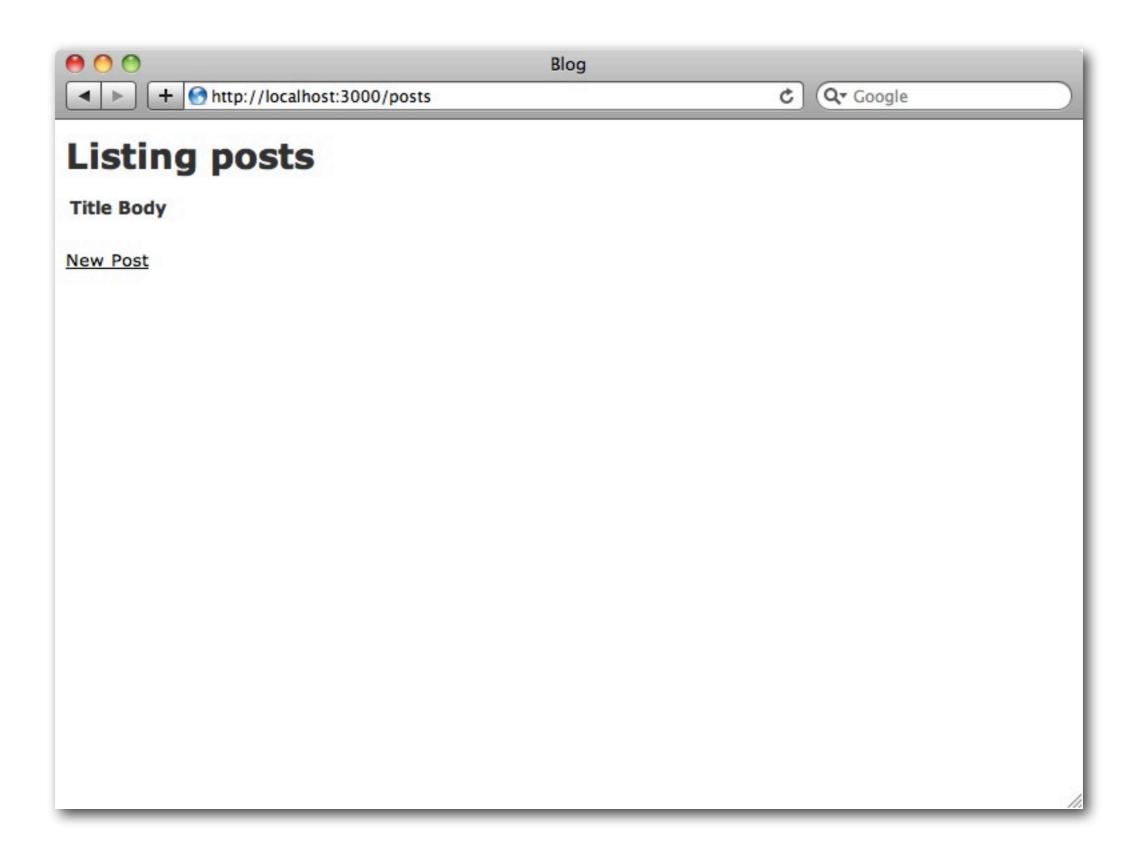
- Model
 - Data and rules for manipulating it.
- View
 - The User Interface
- Controller
 - Glue that ties the UI to the Data.





Add Posts

- Press Ctrl+C to stop the server
 - rails generate scaffold Post title:string body:text
 - rake db:migrate
- http://localhost:3000/posts



Home Work

It's good for you. I promise...

Learn A Little Ruby

- Learn to Program by Chris Pine
 - http://pine.fm/LearnToProgram
- Beginning Ruby by Peter Cooper
 - http://no.gd/begruby2.pdf
- Ruby Koans
 - http://rubykoans.com

Local Community

- Austin on Rails 4th Tuesdays
 - http://austinonrails.org
- Austin.rb 3rd Thursdays
 - http://austinrb.org
- Lone Star Ruby Conf. Aug 11-13, 2011
 - http://www.lonestarrubyconf.com

Online Community

- Riding Rails
 - http://weblog.rubyonrails.org
- Ruby Inside
 - http://www.rubyinside.com
- Ruby Flow
 - http://www.rubyflow.com

GitHub

- https://github.com
- Social Coding
- Create a free account
- Read the GitHub Bootcamp

Heroku

- http://www.heroku.com
- Simple Rails App Deployment
- Create a free account
- Look over the Getting Started info