Ruby on Rails web application dev

about me

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agenda

Ruby Basic
Installation
Creating Rails Proj

Ruby Basic

foo = "bar"

def method_name
 do_something
end

```
def hello(name)
   puts "hello #{name}"
end
```

"hello #{name}"

we can use #{ } to put variable in double quoted string.

```
hello "Thomas"
hello("Thomas")
```

when we call the method with the parameters, we can either use the () or not.

```
# Class Def
class Foo
  def hello
    puts "Hello Ruby"
  end
end
```

Class Def

for comments, we use # symbol. the comment valid till the line ending.

```
class Foo

def hello
   puts "Hello Ruby"
end

private
   def internal_method
      do_something
end
end
```

all methods below the private keyword are private.

```
def self.anther_method
   something_not_related_to_instances
end
```

definite the method with self. makes it a class method.

```
class Foo
  def initialize
    init_things_here
  end
end
```

an initialize method is a constructor method.

```
class Foo
end

obj = Foo.new
```

creating instance from class defition.

```
class Foo
  def initialize
    @bar = 123
  end
end
```

@variable with @ sign is instance variable.

```
class Foo
   attr_reader :bar
   def initialize
     @bar = 123
   end
end

obj = Foo.new
   obj.bar # 123
   obj.bar = 456
# NoMethodError: undefined method 'bar='
```

instance variable with read-only public access.

```
class Foo
  attr_accessor :bar
  def initialize
    @bar = 123
  end
end
```

instance variable with read-write public access.

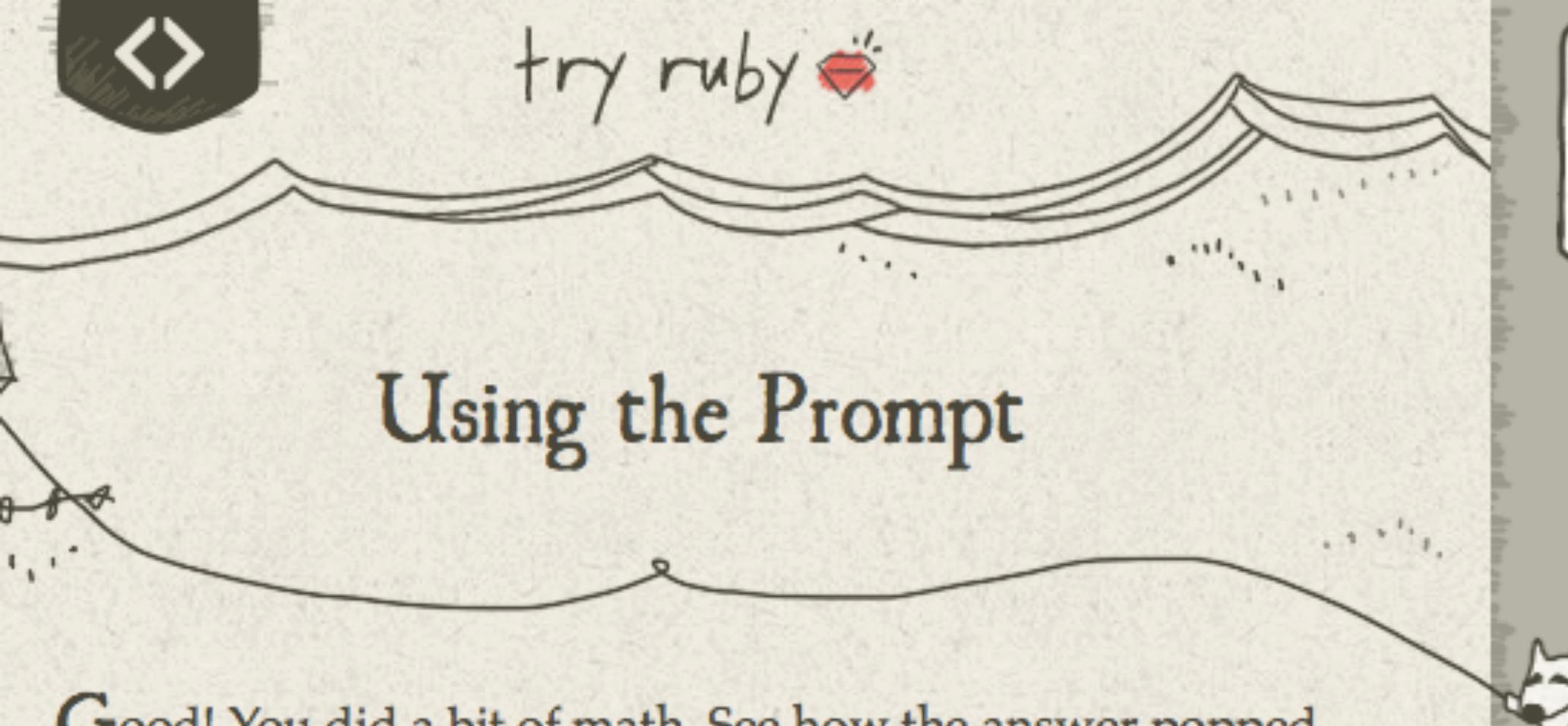
```
class Foo
  attr_accessor :bar
  def initialize
    @bar = 123
  end

def b=(value)
    @bar = value
    puts "Setting bar value to #{value}"
  end
end
```

and we can define custom setter method.

```
obj = Foo.new
obj.bar # 123
obj.b = 321 # Setting bar value to 321
obj.bar # 321
obj.b
# NoMethodError: undefined method 'b'
```

testing the Foo class with custom setter method.



Good! You did a bit of math. See how the answer popped out?

Ruby recognizes numbers and mathematic symbols. You could try some other math like:

- 4 * 10
- 5 12
- 40 / 4

Type next to move to the next lesson when you're finished.

Interactive ruby ready.

- > next
- > next
- >
- => nil

Success!

- > 2+6
 - => 8

Success!

>

http://tryruby.org



Enter / Return → Submit code
Up → Cycle through submitted code
clear → Clear the editor window
back → Return to the previous lesson
next → Move to the next lesson

Installation

Installing XCode
Installing GCC
Installing brew

Installation Mac



Version 4.6.3 (4H1503)

Start building a new Mac, iPhone or iPad

application from one of the included templates

Use Xcode's integrated source control features to

Explore the Xcode development environment with

✓ Show this window when Xcode launches.

Go to Apple's developer portal Visit the Mac and IOS Dev Center websites at

Create a new Xcode project

work with your existing projects

Connect to a repository

Learn about using Xcode

developer.apple.com

the Xcode 4 User Guide

Update:

Bouncy Ball

/Esers/Shared/Projects

CS 101 All Projects

/Esers/Shared/Projects

/Esers/Shared/Projects

/Esers/Shared/Projects

/Esers/Shared/Projects

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Cancel

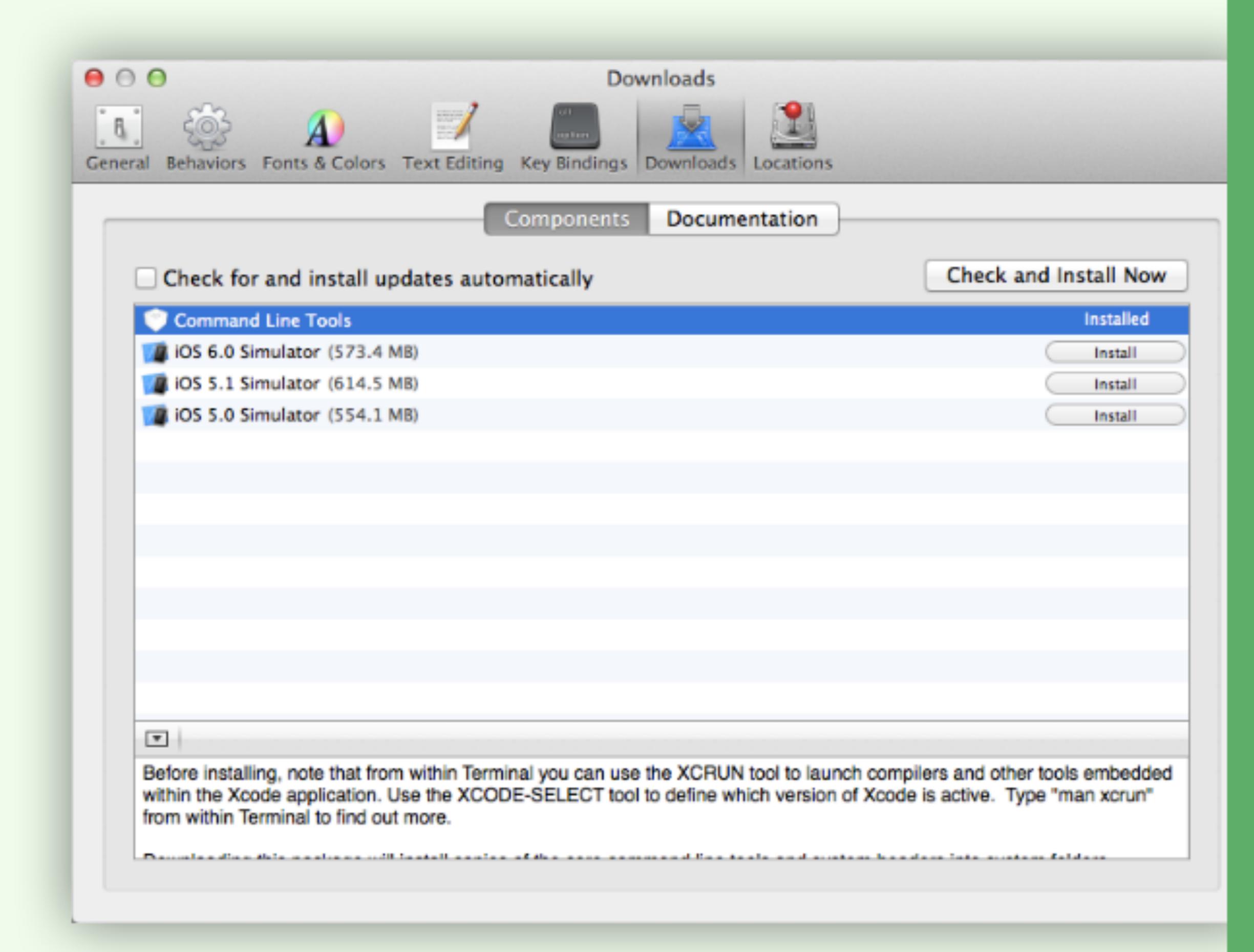
Last opened Today 8:01 AM

CS 101 Demo1

CS 101 Demo2

TipCa/culator

TextEdit



Installation

\$ruby -e "\$(curl -fsSL https://raw.github.com/mxcl/homebrew/go)"

Mac

installing homebrew via one-liner command. or check http://brew.sh for installation details.

Unix

Installing RVM
Installing Ruby
Installing Git
Installing MySQL
Installing Pow

```
$ \curl -L https://get.rvm.io | bash -s stable
```

installing RVM via one-liner command. or check http://rvm.io for installation details.

```
$ rvm install 1.9.3
$ rvm install 2.0.0
```

with RVM, we can manage mulitple versions of Rubies.

```
$ rvm list

rvm rubies

=* ruby-1.9.3-p286 [ x86_64 ]
    ruby-2.0.0-p247 [ x86_64 ]

# => - current
# =* - current && default
# * - default
```

listing all managed ruby versions.

```
$ rvm use 1.9.3
$ gem install rails -v 3.2.8
```

specific the ruby version to use, and installing the rails with version specified.

Installation What is gem?

Mac software package.

Unix as a library.

Win reusability.

http://rubyinstaller.org



Creating Rails Project

Rails Project

create project

framework

file structure

\$ rails new app_name

creating new rails project.

Rails Project

create project

framework

file structure

```
$ rails _3.2.8_ new app_name
```

specify rails version when creating project.

Rails Project
create project
framework
file structure

Rails Project Rails is a framework create project carefully designed for web app.

philosophy of best practices.

design pattern injected.

Rails Project

create project

framework

file structure

app/

config/

db/

log/

public/

vendor/

Gemfile

Rails Project app/

create project

framework

file structure

major project files.

Rails Project app/

create project

framework

file structure

assets/

controllers/

models/

views/

for js/css files.

business logic.

data and validation.

html outputs.

Rails Project config/

create project

framework

file structure

all the configurations.

databases conncetion.

url routing.

Rails Project db/

create project

framework

file structure

database schema.

database versions control.

Rails Project log/

create project

framework

file structure

for debugging.

Rails Project public/

create project

framework

file structure

files that can be view publicly.

images assets.

Rails Project Gemfile

create project

framework

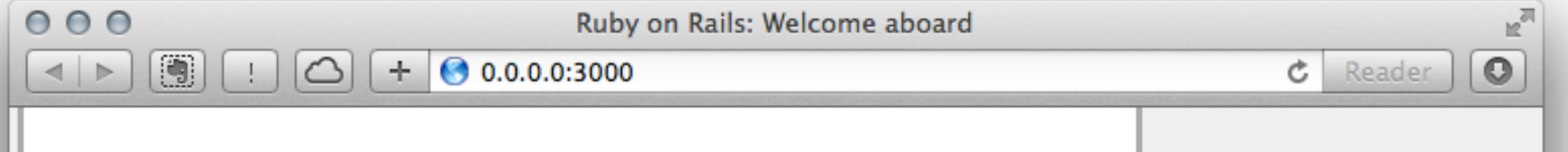
file structure

gem dependency control.

running the development server.

```
$ rails server
=> Booting WEBrick
=> Rails 3.2.8 application starting in development on http://0.0.0.0:3000
=> Call with -d to detach
=> Ctrl-C to shutdown server

[2013-09-06 14:32:54] INFO WEBrick 1.3.1
[2013-09-06 14:32:54] INFO ruby 1.9.3 (2012-10-12) [x86_64-darwin12.2.0]
[2013-09-06 14:32:54] INFO WEBrick::HTTPServer#start: pid=17299 port=3000
```





Welcome aboard

You're riding Ruby on Rails!

About your application's environment

Getting started

Here's how to get rolling:

 Use rails generate to create your models and controllers

To see all available options, run it without parameters.

 Set up a default route and remove public/index.html

Routes are set up in config/routes.rb.

3. Create your database

Run rake db:create to create your database. If you're not

ı your

http://0.0.0.0:3000

Browse the documentation

Rails Guides

Rails API Ruby core

Ruby standard library

recources

tryruby.org

nitrous.io

guides.rubyonrails.org