



# Web in the Cloud with Ruby



# Rafael Macedo



@macedorafael

[github.com/rafaelmacedo](https://github.com/rafaelmacedo)

# Ruby é...



uma linguagem dinâmica,  
interpretada, e open source com foco  
em simplicidade e produtividade.

Possui uma sintaxe elegante que é  
natural de ler e fácil de escrever.

<http://ruby-lang.org/en>

# Ruby é...



“Eu queria uma linguagem que fosse mais poderosa que o Perl e mais orientada a objetos do que o Python.”

Yukihiro “Matz” Matsumoto





python

smalltalk

eiffel

perl

lisp





# Como aprender???



# Ruby

A Programmer's Best Friend

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## Ruby is...

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.

[Read More...](#)

```
# The Greeter class
class Greeter
  def initialize(name)
    name = name.capitalize
  end

  def salute
    puts "Hello #{name}!"
  end
end

# Create a new object
g = Greeter.new("world")
# Output: "Hello World"
g.salute
```

## Download Ruby

### Get Started, it's easy!

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## ConFoo 2013—Call for Papers is Now Open!

ConFoo is one of the most important developer-oriented conferences and includes Ruby content. ConFoo 2013 will be held on February 25 through March 1 in Montreal, Canada.

The team just opened its call for papers. Candidates can submit proposals **until September 23**. Consult the [call for papers](#) page for details and to start submitting. That page also explains expenses ConFoo can cover for speakers. You can even get [advice](#) on how to



<http://www.ruby-lang.org/en>

Help and documentation for the Ruby programming language.



## Core API

These are the API documents for the base classes and modules in the current stable release, 1.9.3.

- [1.9 core](#) - Core API docs for the current version of Ruby 1.9. Base classes and modules, such as String, Array, Symbol, etc.
- [1.9.1 core](#) - Core API docs for Ruby 1.9.1
- [1.9.2 core](#) - Core API docs for Ruby 1.9.2
- [1.9.3 core](#) - Core API docs for Ruby 1.9.3
- [1.8.7 core](#) - Core API docs for Ruby 1.8.7.
- [1.8.6 core](#) - Core API docs for Ruby 1.8.6.
- [2.0 core](#) - Core API docs for Ruby 2.0 (this is not an active release version).
- [MRuby core](#) - Core API docs for MRuby (this is not an active release version).
- [1.9 keywords](#) - Keywords defined in 1.9.

## Standard Library API

These are the API documents for the standard library classes and modules in the current stable release, 1.9.3.

- [The 1.9 standard library](#)  
Additional libraries included with the standard Ruby distribution, such as CGI, OpenURI, and REXML.
- [The 1.9.3 standard library](#)
- [The 1.9.2 standard library](#)
- [The 1.9.1 standard library](#)
- [The 1.8.7 standard library](#)
- [The 1.8.6 standard library](#)
- [The 2.0 standard library](#) Highly beta! Not an active release.

## Getting Started and more

A collection of resources for those just starting out with

<http://www.ruby-doc.org>

# RubyDoc.info

 YARD Documentation Server[About](#)[Help](#)[Featured](#) [Stdlib](#) [RubyGems](#) [Github](#)

Learn about YARD

## Ruby Standard Library

(links without frames)

[core \(1.9.3, 1.9.2, 1.8.7, 1.8.6\)](#)[abbrev \(1.9.3, 1.9.2, 1.8.7, 1.8.6\)](#)[base64 \(1.9.3, 1.9.2, 1.8.7, 1.8.6\)](#)[benchmark \(1.9.3, 1.9.2, 1.8.7, 1.8.6\)](#)[bigdecimal \(1.9.3, 1.9.2, 1.8.7, 1.8.6\)](#)[cgi \(1.9.3, 1.9.2, 1.8.7, 1.8.6\)](#)[cgi-lib \(1.8.7, 1.8.6\)](#)[cmath \(1.9.3, 1.9.2\)](#)[complex \(1.9.3, 1.9.2, 1.8.7, 1.8.6\)](#)[continuation \(1.9.3, 1.9.2\)](#)[coverage \(1.9.3, 1.9.2\)](#)[csv \(1.9.3, 1.9.2, 1.8.7, 1.8.6\)](#)[curses \(1.9.3, 1.9.2, 1.8.7, 1.8.6\)](#)[date \(1.9.3, 1.9.2, 1.8.7, 1.8.6\)](#)[date2 \(1.8.7, 1.8.6\)](#)[dbm \(1.9.3, 1.9.2, 1.8.7, 1.8.6\)](#)

<http://www.rubydoc.info>

Search
» <a href="#">File</a>
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» <a href="#">ActionController</a>
» <a href="#">ActionDispatch</a>
» <a href="#">ActionMailer</a>
» <a href="#">ActionView</a>
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» <a href="#">ActiveRecord</a>
» <a href="#">ActiveResource</a>
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» <a href="#">Js</a>
» <a href="#">Kernel</a>

## Ruby on Rails v3.2.8

### RDOC\_MAIN.rdoc

RDOC\_MAIN.rdoc  
Last modified: 2013-08-11 14:27:15 +0000

## Welcome to Rails

Rails is a web-application framework that includes everything needed to create database-backed web applications according to the [Model-View-Controller \(MVC\)](#) pattern.

Understanding the MVC pattern is key to understanding Rails. MVC divides your application into three layers, each with a specific responsibility.

The View layer is composed of "templates" that are responsible for providing appropriate representations of your application's resources. Templates can come in a variety of formats, but most view templates are HTML, with embedded Ruby code (.erb files).

The Model layer represents your domain model (such as Account, Product, Person, Post) and encapsulates the business logic that is specific to your application. In Rails, database-backed model classes are derived from  [ActiveRecord::Base](#). Active Record allows you to present the data from database rows as objects and embellish these data objects with business logic methods. Although most Rails models are backed by a database, models can also be ordinary Ruby classes, or Ruby classes that implement a set of interfaces as provided by the [ActiveModel](#) module. You can read more about Active Record in its [README](#).

The Controller layer is responsible for handling incoming HTTP requests and providing a suitable response. Usually this means returning HTML, but Rails controllers can also generate XML, JSON, PDFs, mobile-specific views, and more. Controllers manipulate models and render view templates in order to generate the appropriate HTTP response.

In Rails, the Controller and View layers are handled together by Action Pack. These two layers are bundled in a single package due to their heavy interdependence. This is unlike the relationship between Active Record and Action Pack which are independent. Each of these packages can be used independently outside of Rails. You can read more about Action Pack in its [README](#).

## Getting Started

1. Install Rails at the command prompt if you haven't yet:

```
gem install rails
```

2. At the command prompt, create a new Rails application:

```
rails new myapp
```

where "myapp" is the appl

3. Change directory to myapp and

<http://api.rubyonrails.org>

More at [rubyonrails.org](http://rubyonrails.org): [Overview](#) | [Download](#) | [Deploy](#) | [Code](#) | [Screencasts](#) | [Documentation](#) | [Ecosystem](#) | [Community](#) | [Blog](#)



# Rails Guides

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## Ruby on Rails Guides (v3.2.8)

These are the new guides for Rails 3.2 based on v3.2.8. These guides are designed to make you immediately productive with Rails, and to help you understand how all of the pieces fit together.

The guides for Rails 2.3.x are available at  
<http://guides.rubyonrails.org/v2.3.11/>.



Rails Guides are also available for the [Kindle](#) and [Free Kindle Reading Apps](#) for the iPad, iPhone, Mac, Android, etc. Download them from [here](#).



Guides marked with this icon are currently being worked on. While they might still be useful to you, they may contain incomplete information and even errors. You can help by reviewing them and posting your comments and corrections to the author.

### Start Here

#### [Getting Started with Rails](#)

Everything you need to know to install Rails and create your first application.

### Models

#### [Rails Database Migrations](#)

This guide covers how you can use Active Record migrations to alter your database in a structured and organized manner.

#### [Active Record Validations and Callbacks](#)

This guide covers how you can use Active Record validations and callbacks to validate and manipulate data before it is saved to the database.

<http://guides.rubyonrails.org>



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Ruby is an open-source dynamic object-oriented interpreted language created by Yukihiro Matsumoto (Matz) in 1993.

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112

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answers

353 views

**rubyonrails mysql2**

Hi im just wondering if my configuration of database connection is right development: adapter: mysql2  
encoding: utf8 database: db/glob\_development pool: 5 username: root password: mysql ...

[mysql](#) [ruby-on-rails](#) [ruby](#)

asked Nov 5 11 at 6:03



Leo

137 +5

0

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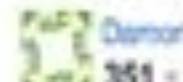
433 views

**what IDE is good for rubyonrails [closed]**

Possible Duplicate: Best IDE for Ruby on Rails I am a newbie to rubyonrails. What is a standard IDE for use to develop rubyonrails apps? What would you recommend for a beginner? I was told that current version of eclipse is broken for rails

[ruby-on-rails](#) [ruby](#) [ide](#)

asked Dec 12 '11 at 2:22



Damon Julian

251 +1 +11

1

vote

**RubyOnRails: Interface to shell script**

I want to make a button inside my GUI that triggers a shell script. How can I do this? Thanks! ...

## Community Bulletin

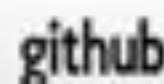
event: Join the next AppVite chat on getting started with Windows 8! (Oct 9th, 5pm...  
– in 55 minutes)

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Senior Database Engineer for a high traffic website needed  
AsiaEast  
Tokyo, Japan; Rio de Janeiro,...

Senior Python Engineer (Sign-on Bonus, VC Funded Start-up)  
Shopify.com  
Redmond, WA

<http://stackoverflow.com/search?q=ruby+rubyonrails>

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git /git/

Git is an extremely fast, efficient, distributed version control system ideal for the collaborative development of software.

git·hub /git.hab/

GitHub is the best way to collaborate with others. Fork, send pull requests and manage all your public and private git repositories.

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#### Team management

30 seconds to give people access to code. No SSH key required. Activity feeds keep you updated on progress.

[More about collaboration](#)

#### Code review

Comment on changes, track issues, compare branches, send pull requests and merge forks.

[More about code review](#)

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We spend all day and night making sure your repositories are **secure**.

#### Open source collaboration

Participate in the most important open source community in the world today—

<http://github.com>

http://git-scm.com

http://try.github.com

A screenshot of a web browser displaying the GitHub homepage. The address bar shows "github.com". The page features the GitHub logo and navigation links for "Signup and Pricing", "Explore GitHub", "Features", "Blog", and "Sign In". A prominent banner states "2,291,251 people hosting over 3,956,249 repositories". Below the banner, logos for various companies are displayed: Facebook, Twitter, Microsoft, VMware, Redhat, LinkedIn, and Mozilla. Two boxes at the bottom explain the differences between "git" and "git·hub". The "git" box defines it as "an extremely fast, efficient, distributed version control system ideal for the collaborative development of software". The "git·hub" box defines it as "the best way to collaborate with others. Fork, send pull requests and manage all your public and private git repositories". At the bottom right, the URL "http://github.com" is shown.

github.com - GitHub · Social Coding

github

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2,291,251 people hosting over 3,956,249 repositories

(jQuery, reddit, Spankle, curl, Ruby on Rails, node.js, ClickToFlash, Erlang/OTP, CakePHP, Redis, and many more)

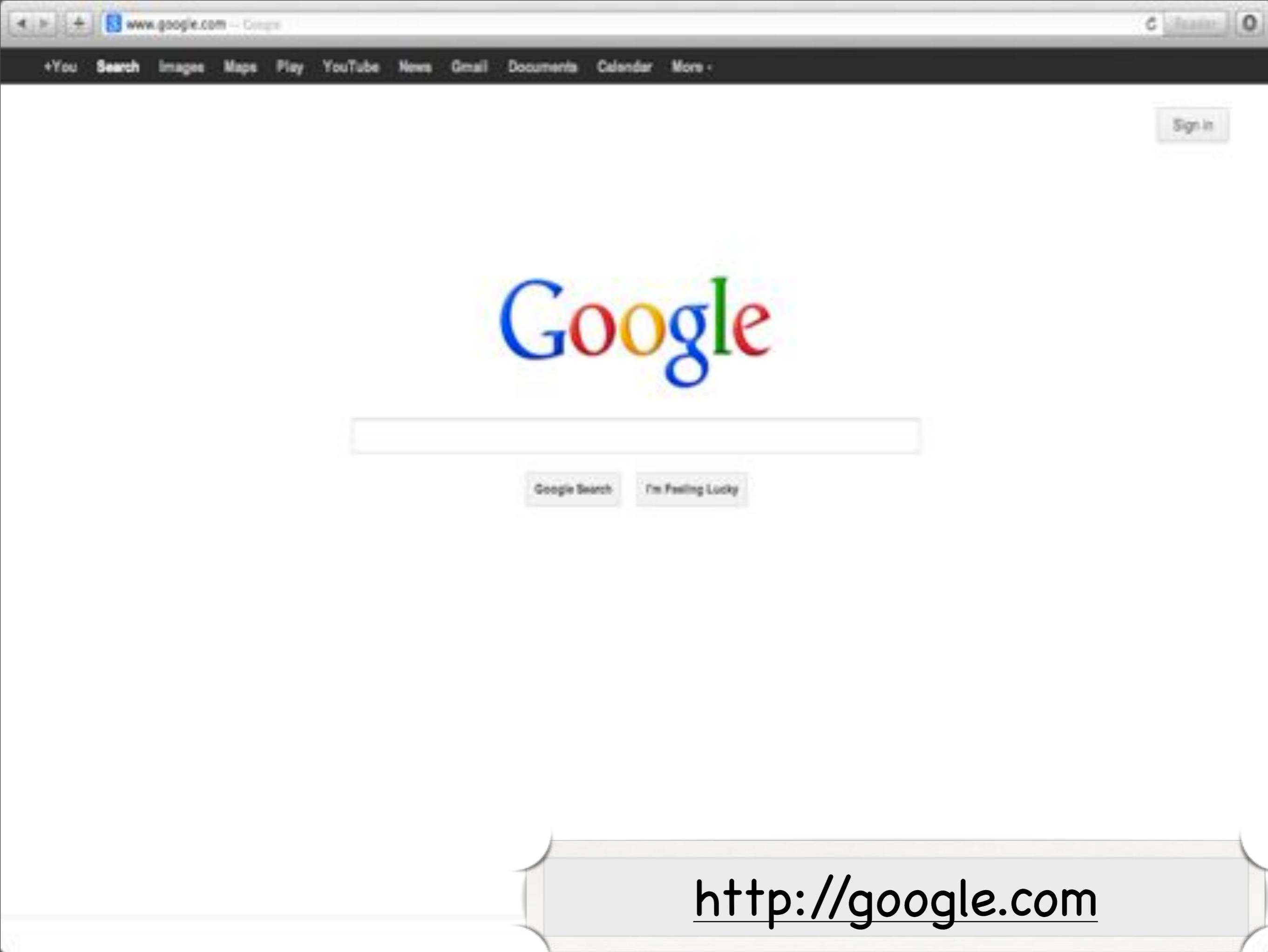
Find any repository

facebook    twitter    Microsoft    vmware    redhat    LinkedIn    mozilla

git /git/  
Git is an extremely fast, efficient, distributed version control system ideal for the collaborative development of software.

git·hub /git.hub/  
GitHub is the best way to collaborate with others. Fork, send pull requests and manage all your public and private git repositories.

http://github.com



http://google.com



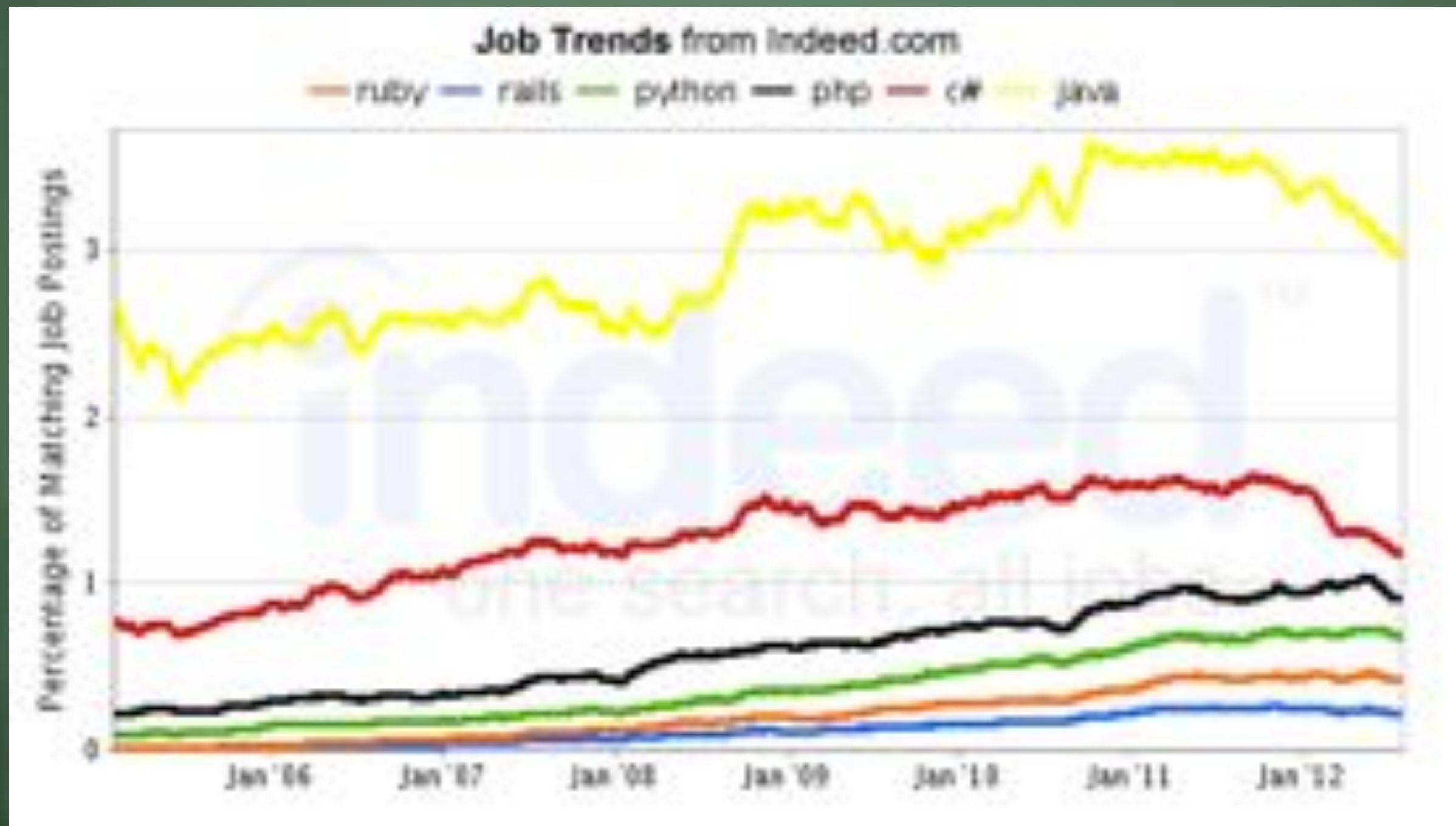
<http://google.com>



# Por que Ruby???



~ 1 milhão  
de desenvolvedores  
4M até 2013 (Gartner)





# Documentação



- 112 bibliotecas 100% documentadas
- Comunidade ativa
- Diversos tutoriais e em diversos níveis
- Bibliotecas em ruby são empacotadas e distribuidas como gems

# Rubygems



**RubyGems.org**  
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**931,767,502 downloads**  
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Welcome to your community RubyGem host.  
Find your gems easier, publish them faster, and have fun doing it.

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Ruby's anterior packaging system

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In-depth explanations, tutorials, and references

[Gem Specification](#)  
Your gem's interface to the world

**SHARE**

`gem update --system`  
Update to the latest RubyGems version

`gem build foo.gemspec`  
Build your gem

`gem push foo-1.0.0.gem`  
Deploy your gem instantly

RubyGems.org is the Ruby community's gem hosting service. Instantly publish your gems and install them. Use the API to interact and find out more information about available gems. Become a contributor and enhance the site with your own changes.

# Rubygems



RubyGems.org  
your community gem host

all gems sign in sign up

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931,767,502 downloads  
of 45,470 gems as of July 2009

Welcome to your community RubyGem host.  
Publishing your gems is fun and so is fun doing it.

+ 40K gems

## LEARN

[Install RubyGems 1.8.26](#)

Ruby's anterior packaging system

[Browse the Guides](#)

In-depth explanations, tutorials, and references

[Gem Specification](#)

Your gem's interface to the world

## SHARE

`gem update --system`

Update to the latest RubyGems version

`gem build foo.gemspec`

Build your gem

`gem push foo-1.0.0.gem`

Deploy your gem instantly

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# Rubygems



RubyGems.org  
your community gem host

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Search gems...

931,767,501 downloads!  
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Welcome to RubyGems.org, the RubyGem host.  
We're here to help you host your gems online, so you can do it.

+ 40K gems

62.837 users

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Install RubyGems  
RubyGems packages  
Browse the Guides  
In-depth explanations, tutorials, and references

SHARE

gem update -y  
gem install  
gem build foo.gemspec  
gem push

gem build foo.gem  
gem push foo-1.0.0.gem  
Clicky your gem instantly

RubyGems.org is the Ruby community's gem hosting service. Instantly publish your gems and install them. Use the API to interact and find out more information about available gems. Become a contributor and enhance the site with your own changes.

# Github

# Sintaxe elegante e limpa



```
1 def say_good_morning(name)
2   return "Good morning " + name + "!!!"
3 end
4
5 puts say_good_morning("folks")
6 >> Good morning folks!!!
```

# Sintaxe elegante e limpa



```
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```

opcionais

# Sintaxe elegante e limpa



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```

# Sintaxe elegante e limpa



retorno automático

```
1 def say_good_morning(name)
2   return "Good morning " + name + "!!!"
3 end
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5 puts say_good_morning "folks"
6 >> Good morning folks!!!
```

# Sintaxe elegante e limpa



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1 def say_good_morning(name)
2   "Good morning " + name + "!!!"
3 end
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5 puts say_good_morning "folks"
6 >> Good morning folks!!!
```

# Sintaxe elegante e limpa



interpolação

```
1 def say_good_morning(name)
2   "Good morning " + name + "!!!"
3 end
4
5 puts say_good_morning "folks"
6 >> Good morning folks!!!
```

# Sintaxe elegante e limpa



```
1 def say_good_morning(name)
2   "Good morning #{name}!!!"
3 end
4
5 puts say_good_morning "folks"
6 >> Good morning folks!!!
```

# Orientada a objetos



```
1 "some dummy text".class
2 >> String
3
4 1.class
5 >> Fixnum
6
7 true.class
8 >> TrueClass
9
10 nil.class
11 >> NilClass
```

# Orientada a objetos



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5 >> Fixnum
6
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8 >> TrueClass
9
10 nil.class
11 >> NilClass
```

tudo é um objeto

# Orientada a objetos



```
1 "some dummy text".class
2 >> String
3
4 1.class
5 >> Fixnum
6
7 true.class
8 >> TrueClass
9
10 nil.class
11 >> NilClass
```

sim, eu disse tudo!!!

# Orientada a objetos



```
1 "some dummy text".class
2 >> String
3
4 1.class
5 >> Fixnum
6
7 true.class
8 >> TrueClass
9
10 nil.class
11 >> NilClass
```

sim, eu disse tudo!!!

```
1 String.class
2 >> Class
```

# Orientada a objetos



```
1 puts 1 + 1  
2 >> 2
```

# Orientada a objetos



```
1 puts 1 + 1
2 >> 2
3
4 puts 1.+ (1)
5 >> 2
```

# Orientada a objetos



```
1 [ 1 , 2 , 3 , 4 , 5 ].average
```

# Orientada a objetos



```
1 [1, 2, 3, 4, 5].average
2 >> NoMethodError: undefined method
`average' for [1, 2, 3, 4, 5]:Array
```

# Orientada a objetos



```
1 [1, 2, 3, 4, 5].average
2 >> NoMethodError: undefined method
`average' for [1, 2, 3, 4, 5]:Array
```

e agora???????

# Orientada a objetos



```
1 class Array
2   def average
3     inject(0.0) do |sum, var|
4       sum + var
5     end / self.size
6   end
7 end
8
9 [1, 2, 3, 4, 5].average
10 >> 3.0
```

# Orientada a objetos



```
1 class Array
2   def average
3     inject(0.0) do |sum, var|
4       sum + var
5     end
6   end
7
8
9 [1, 2, 3, 4, 5].average
10 >> 3.0
```

open classes WINS!!!!



“Se anda como um pato e fala  
como um pato, isso é um pato!”



Desenvolvedores Ruby estão mais acostumados em definir objetos pelo que eles podem fazer, do que por seu tipo. Esta técnica é chamada de duck typing.

# Duck Typing



```
1 class Logger
2   def initialize(io)
3     @io = io
4   end
5
6   def log(message)
7     @io << "#{Time.now} - #{message}\n"
8   end
9 end
```

# Duck Typing



```
1 array_logger = Logger.new( [] )
2 array_logger.log("Hello World")
3
4 string_logger = Logger.new( "" )
5 string_logger.log("Hello World")
```

# Duck Typing



```
1 array_logger = Logger.new( [ ] )
2 array_logger.log("Hello World")
3
Protocolo > Interface
4 string_logger = Logger.new( "" )
5 string_logger.log("Hello World")
```



# Instalação

# Instalando (Mac OS & Linux)

<http://rvm.io>

# Instalandoo

(Mac OS & Linux)



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

```
$ source ~/.rvm/scripts/rvm
```

```
$ type rvm | head -n 1  
rvm is a function
```

# Instalandoo

(Mac OS & Linux)



```
$ echo '[[ -s "$HOME/.rvm/scripts/rvm" ]] && \
source "$HOME/.rvm/scripts/rvm"' > ~/.bash_profile
```

# Instalandoo

(Mac OS & Linux)



```
$ rvm list known
```

```
[rafaelmocedo] ~/Users/rafaelmocedo using [ruby-1.9.3p194]
```

```
$ rvm list known  
# MRI Rubies  
[ruby-]1.8.6[-p428]  
[ruby-]1.8.7[-p358]  
[ruby-]1.8.7-head  
[ruby-]1.9.1[-p431]  
[ruby-]1.9.2-p180  
[ruby-]1.9.2-p290  
[ruby-]1.9.2-p318  
[ruby-]1.9.2[-p328]  
[ruby-]1.9.2-head  
[ruby-]1.9.3-preview1  
[ruby-]1.9.3-rc1  
[ruby-]1.9.3-p0  
[ruby-]1.9.3-p125  
[ruby-]1.9.3[-p194]  
[ruby-]1.9.3-head  
ruby-head
```

```
# GoRuby  
goruby
```

```
# TheCodeShop - MRI experimental patches  
tcs
```

```
# JRuby  
jruby-1.2.0  
jruby-1.3.1  
jruby-1.4.0  
jruby-1.6.5  
jruby-1.6.5.1  
jruby-1.6.6  
jruby-1.6.7  
jruby[-1.6.7.2]  
jruby-head  
jruby-1.7.0.preview1
```

```
# Rubinius  
rbx-1.0.1  
rbx-1.1.1
```

# Instalandoo

(Mac OS & Linux)



```
$ rvm install ruby-1.9.3
```

```
$ rvm use ruby-1.9.3
```

# Instalandoo

(Mac OS & Linux)



```
$ rvm list
```

```
RUBYOPT:  ""
gemset:  ""
```

```
[rafaelmocedo] ~/Users/rafaelmocedo using [ruby-1.9.3p194]
```

```
$
```

```
[rafaelmocedo] ~/Users/rafaelmocedo using [ruby-1.9.3p194]
```

```
$ rvm list
```

```
rvm rubies
```

```
ree-1.8.7-2012.02 [ i686 ]
```

```
ruby-1.8.7-p358 [ i686 ]
```

```
ruby-1.9.2-p320 [ x86_64 ]
```

```
ruby-1.9.3-p125 [ x86_64 ]
```

```
* ruby-1.9.3-p194 [ x86_64 ]
```

```
# => - current
```

```
# * - current && default
```

```
# * - default
```

```
[rafaelmocedo] ~/Users/rafaelmocedo using [ruby-1.9.3p194]
```

```
$ |
```

# Instalandoo (Windows)



**RubyInstaller**  
for Windows

About Download Help Contribute

## The easy way to install Ruby on Windows

This is a self-contained Windows-based installer that includes the Ruby language, an execution environment, important documentation, and more.

[Download](#) [Add-ons](#)

**Latest News**

**RubyInstaller 1.8.7-p370 released**  
RubyInstaller version 1.8.7-p370 is now available for download in both executable installers and 7-Zip binary archives. CHM documentation is also available as a 7-Zip archive. Enjoy!

June 29, 2012 [Read full article](#)

**RubyInstaller 1.8.3-p194 released**  
RubyInstaller version 1.8.3-p194 is now available for download in both executable installers and 7-Zip binary archives. CHM documentation is also available as a 7-Zip archive. Enjoy!

**Extras**

<http://rubyinstaller.org/downloads>



# “Hello World”

C



```
1 #include <stdio.h>
2
3 int main(void){
4     printf("Hello World\n");
5     return 1;
6 }
```

# Java



```
1 class HelloWorldApp {  
2     public static void main(String[] args) {  
3         System.out.println("Hello World");  
4     }  
5 }
```

# Ruby



```
1 puts "Hello World"
```



# Rodando códigos ruby

via irb



IRB = Interactive RuBy

Shell REPL (Read Eval Print Loop)

# via irb



```
[rafaelmacedo] ~/rafaelmacedo/Development using [ruby-1.9.3-p194]
$ irb
=> Unable to load pry
>> puts "hello world"
hello world
=> nil
>> |
```

```
[rafaelmacedo] ~/Users/rafaelmacedo using [ruby-1.9.3-p194]
$ irb
1.9.3 (main)> 1 + 1
=> 2
1.9.3 (main)> "wewebconf2012".upcase
=> "WEWEBCONF2012"
1.9.3 (main)> def sum(*args)
1.9.3 (main)>   args.inject do |sum, value|
1.9.3 (main)>     sum + value
1.9.3 (main)>   end
1.9.3 (main)> end
=> nil
1.9.3 (main)> sum(1, 2, 3, 4, 5)
=> 15
1.9.3 (main)> sum('a', 'b', 'c', 'd')
=> "abcd"
1.9.3 (main)> class Person
1.9.3 (main)>   def initialize(name)
1.9.3 (main)>     @name = name
1.9.3 (main)>   end
1.9.3 (main)>   def greeting
1.9.3 (main)>     "Hi, my name is #{@name}"
1.9.3 (main)>   end
1.9.3 (main)> end
=> nil
1.9.3 (main)> person = Person.new("Rafael Macedo")
=> #<Person:0x007fcc30a498f0 @name="Rafael Macedo">
1.9.3 (main)> puts person.greeting
Hi, my name is Rafael Macedo
=> nil
```

# via programas Ruby



```
$ ruby hello_world.rb  
Hello World
```



# Ruby Basics



# Comentários

# Comentários



```
1 # comentar uma linha simples
2
3 =begin
4     para um bloco de códigos
5     [ 1, 2, 3 ].each do |number|
6         puts number * 2
7     end
8 =end
```



# Variáveis

# Variáveis



```
1 age = 1 # local
2
3 @name = 'rafael' # global
4
5 @@count = 1 # class
6
7 PATH = '~/' # constant
```



# Strings



# Strings

```
1 single_quote = 'this is a string  
with single quote'  
2  
3 double_quote = "this is a string  
with double quote"  
4  
5 escaped_string = 'i\'m a escaped  
string'
```

# Strings (interpolação)



```
1 puts "20 + 20 = #{20 + 20}"
2 >> 20 + 20 = 40
```



# Symbols

# Symbols



```
1 def walk(direction)
2   case direction
3     when 1 then move_north
4     when 2 then move_east
5     when 3 then move_south
6     when 4 then move_west
7     else "Unknown direction"
8 end
```

# Symbols



```
1 def walk(direction)
2   case direction
3     when :north then move_north
4     when :east then move_east
5     when :south then move_south
6     when :west then move_west
7     else "Unknown direction"
8 end
```



# Symbols

```
1 def walk(direction)
2   case direction
3     when :north then move_north
4     when :east then move_east
5     when :south then move_south
6     when :west then move_west
7     else "Unknown direction"
8 end
```



# Numbers

# Numbers



```
1 number = 15
2
3 number_with_delimiter = 1_000_000
4
5 float = 1.5
```

# Numbers

(conversão automática  
entre tipos)



```
a = 1  
a.class  
>> Fixnum
```

```
b = 5.5  
b.class  
>> Float
```

# Numbers

(conversão automática  
entre tipos)



```
a = 1  
a.class  
>> Fixnum
```

```
b = 5.5  
b.class  
>> Float
```

```
c = a + b  
>> 6.5
```

# Numbers

(conversão automática  
entre tipos)



```
a = 1  
a.class  
>> Fixnum
```

```
b = 5.5  
b.class  
>> Float
```

```
c = a + b  
>> 6.5
```

```
c.class  
>> Float
```



# Arrays

# Arrays



```
1 items = [1, "two", :three, [4, 5, 6]]  
2  
3 items << 7  
4  
5 items[12] = 'a'  
6  
7 puts items[0]  
8 >> 1
```

# Arrays



```
1 puts items.inspect
2 >> [1, "two", :three, [4, 5, 6], 7,
nil, nil, nil, nil, nil, nil, nil,
"..." ]
```

# Arrays



```
1 year_months = %w[ seg ter qua qui sex sab dom ]  
2 >> ["seg", "ter", "qua", "qui", "sex", "sab",  
"dom"]
```

# Arrays



```
1 year_months = %w( seg ter qua qui sex sab dom )
2 >> ["seg", "ter", "qua", "qui", "sex", "sab",
"dom"]
```

# Arrays



```
1 items = Array.new(5) { |i| 2 ** i }
2 >> [1, 2, 4, 8, 16]
```



# Hashes

# Hashes



```
1 market_list = {rice => 1, "vegetables"  
=> [ :spinach => 1, :broccoli => 2 ]}  
2  
3 market_list = {rice: 1, vegetables:  
[ spinach: 1, broccoli: 2 ]}  
4  
5 market_list[:rice]  
6  
7 market_list[:coca] = 2
```



# Ranges

# Ranges



```
1 (1..10).to_a
2 >> [1, 2, 3, 4, 5, 6, 7, 8, 9, 10]
3
4 (1...10).to_a
5 >> [1, 2, 3, 4, 5, 6, 7, 8, 9]
6
7 ("a".."z").to_a
8 >> ["a", "b", "c", "d", "e", "f", "g",
"h", "i", "j", "k", "l", "m", "n", "o",
"p", "q", "r", "s", "t", "u", "v", "w",
"x", "y", "z"]
```

# Ranges



```
1 string = "1a".."2g"
2 string.cover "2a"
3 >> true
4
5 string.cover "2h"
6 >> false
```



# Expressões Regulares

# Expressões regulares

```
1 regexp = / (a-z) + /  
2  
3 regexp = %r( (a-z) + )
```



# Expressões regulares

```
1 regexp = / (a-z) + /  
2  
3 regexp = %r( (a-z) + )
```

Metacaracteres devem ser escapados

( ) [ ] { } . ? + \*

# Expressões regulares



## Rubular

a Ruby regular expression editor

Your regular expression:

Your test string:

Rubular is a Ruby-based regular expression editor. It's a handy way to test regular expressions as you write them.

To start, enter a regular expression and a test string. Or you can try an example.

Help words Show available Ruby version 1.9.2

case insensitive clear fields

### Regex quick reference

[abc]	A single character <i>alt</i> : a, b or c	.	Any single character	(...)	Capture everything enclosed
[^abc]	Any single character <i>except</i> : a, b, or c	\s	Any whitespace character	(a b)	a or b
[a-z]	Any single character <i>in</i> the range a-z	\S	Any non-whitespace character	a?	Zero or one of a
[a-zA-Z]	Any single character <i>in</i> the range a-z or A-Z	\d	Any digit	a*	Zero or more of a
\^	Start of line	\D	Any non-digit	a+	One or more of a
\\$	End of line	\w	Any word character (letter, number, underscore)	a{3}	Exactly 3 of a
\A	Start of string	\W	Any non-word character	a{3,}	3 or more of a



# Estruturas condicionais

# Estruturas condicionais (if/elsif/else)



```
1 if expression
2   # do something
3 elsif expression2
4   # do something else
5 elsif expressionN
6   # do something else
7 else
8   # do something else
9 end
```

# Estruturas condicionais (if/elsif/else)



```
1 if !expression
2   # do something
3 end
```

# Estruturas condicionais (if/elsif/else)



```
1 if !expression
2   # do something
3 end
```

A block of pseudocode is shown on a black background. It consists of three numbered lines: 1. 'if !expression', 2. '# do something', and 3. 'end'. A large red 'X' is drawn across the entire block, indicating that the code is incorrect or should not be used.

# Estruturas condicionais (if/elsif/else)



```
1 if !expression
2   # do something
3 end
4
5 unless expression
6   # do something
7 end
```

# Estruturas condicionais (if/elsif/else)



```
1 count == 1 ? 'singular' : 'plural'
```

# Estruturas condicionais (case)



```
1 case
2 when x == 1 then "one"
3 when x == 2 then "two"
4 when x == 3 then "three"
5 else "other"
```

# Estruturas condicionais (case)



```
1 case number
2 when 0..10
3   "Between 0 and 10"
4 when 11..20
5   "Between 11 and 20"
6 else
7   "You're outside my limits"
8 end
```

# Estruturas condicionais (case)



```
1 case text
2 when /\bruby\b/
3     "You passed a lowercased Ruby"
4 when /\bRuby\b/
5     "You passed a capitalized Ruby"
6 when /\bRUBY\b/
7     "You passed an uppercased Ruby"
8 else
9     "WAT? NO RUBY?"
10 end
```



# Iteradores

# Iteradores



Objetos das classes Hash, Array e Range são iteráveis

```
1 1.upto(3) do |number|
2   puts number
3 end
4
5 [1, 2, 3].map { |number| number * 2 }
6 >> [2, 4, 6]
7
8 (1..10).reject { |number| number.odd? }
9 >> [2, 4, 6, 8, 10]
```



# Métodos



# Métodos

```
1 def greet(name)
2   puts "Hello #{name}"
3 end
4
5 greet "Rafael"
```

# Métodos (argumento padrão)



```
1 def greet(name="there")
2   puts "Hello #{name}"
3 end
4
5 greet
```



# Métodos (escopo)

```
1 x, y = 2, 1
2
3 def cube(x)
4     y = x**3
5     return y
6 end
7
8 puts cube(x)
9 >> 8
10
11 puts y
12 >> 1
```

# Métodos (retorno automático)



```
1 x, y = 2, 1
2
3 def cube(x)
4   x**3
5 end
6
7 puts cube(x)
8 >> 8
9
10 puts y
11 >> 1
```



# Classes



# Classes

```
1 class Person  
2 end  
3  
4 p = Person.new
```

# Classes (métodos de instância)



```
1 class Person
2   def introduce
3     puts "Hello"
4   end
5 end
6
7 p = Person.new
8 p.introduce
9 >> Hello
```

# Classes (construtor)



```
1 class Person
2   def initialize(name)
3     @name = name # variavel de instância
4   end
5
6   def introduce
7     puts "Hello my name is #{@name}"
8   end
9 end
```

```
1 p = Person.new('rafael')
2 p.introduce
3 >> Hello my name is rafael
```

# Classes (métodos de classe)



```
1 class Animal
2   def self.species
3     ["alligator", "bat", ..., 
4      "bear"]
5   end
6 end
7 puts Animal.species
```



# Classes (getters e setters)

```
1 class Person
2   def name=(name)
3     @name = name
4   end
5
6   def name
7     @name
8   end
9 end
10
11 p = Person.new('rafael')
12 p.name = 'macedo'
13 puts p.name
14 >> macedo
```

# Classes (getters e setters)



```
1 class Person
2   attr_accessor :name
3 end
4
5 p = Person.new('rafael')
6 p.name = 'macedo'
7 puts p.name
8 >> macedo
```



# Classes (getters)

```
1 class Person
2   attr_reader :name
3 end
4
5 p = Person.new('rafael')
6 p.name = 'macedo'
7 NoMethodError: undefined method
`name='
8 puts p.name
8 >> macedo
```



# Classes (setters)

```
1 class Person
2   attr_reader :name
3 end
4
5 p = Person.new('rafael')
6 p.name = 'macedo'
7 puts p.name
8 NoMethodError: undefined method
`name'
```



# Classes (inheritance)

```
1 class Studend < Person
2   attr_accessor :register
3 end
4
5 s = Studend.new('rafael')
6 s.register = '13286'
7 s.name = 'macedo'
```



# Classes (modules)

```
1 module Swimmer
2   def swim
3     puts 'I\'m swimming!'
4   end
5 end
```

# Classes (modules)



```
1 class Person
2   include Swimmer
3 end
4
5 Person.new.swim
6 >> I'm swimming!
```



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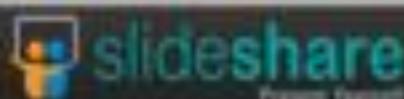
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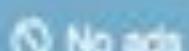
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MIKE ANGELES

Sketching interfaces  
Michael Argote

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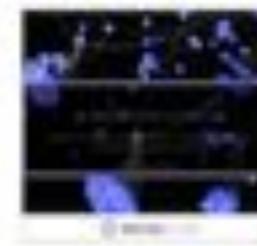
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# MTV Style.

## "Gossip Girl" Fashion: Who Looked Best Last Night?

Posted 47 mins ago by Gaby Wilson in TV Shows

I guess this is it. The final season of *Gossip Girl* is officially underway, and this first episode marks the beginning of the end. "single tear" With a whole summer between now and last season's finale, there was a lot of catching up to be done. Dan (Penn Badgley) spent his summer at a writing fellowship in Italy where he enlisted Georgina Sparks (Michelle Trachtenberg) to help him pen his next scathing exposé of the Upper East Side. We found Blair (Leighton Meester) and Chuck (Ed Westwick) going from wild nights together in Monte Carlo to serving out the rest of their summers sorting out business in different parts of the globe (Paris and Dubai, respectively), but promising they would end up together, you know, eventually.

Chuck's father Bart (Robert John Burke) and Lily (Kelly Rutherford) spent their vacation rekindling their old flame and returned home happy and relaxed with Rufus (Matthew Settle) barely an afterthought. That is, until they discovered Serena (Blake Lively) hadn't been home all summer and disappeared without a word. Lily called Nate (Chace Crawford) who had spent the last three months devising a plan to revive his newspaper *The Spectator*. Shocked by the news, he rounded up the rest of the friends and initiated a mission to find S and bring her home. After a major negotiation with *Gossip Girl* herself,

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## Dilma blinda governo em dia decisivo para Dirceu

Supremo deve condenar ex-chefe da Casa Civil por corrupção adua nesta terça. Dilma deu a ordem: ministros do governo devem evitar manifestações públicas

- BRASIL** **Reinado Azvedo:** STF vai decidir hoje se condena José Dirceu ou o Brasil
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Eleições 2012

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PSDB quer que ex-candidato fique neutro, enquanto o PT quer apoio declarado

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**ONU:** 1 em cada 8 pessoas passa fome no mundo



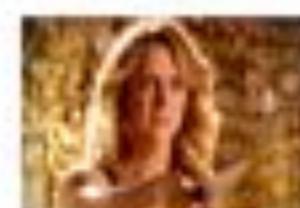
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**Bonnar,** o bo-praça que pode estragar a festa



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Avenida Brasil

**Max** dispara contra Ivana: "Baranga de 5!"

- BOMBA:** "Foi tiro, porrada e bomba"
- Quanto Dinheiro:** "Avenida Brasil" domina o Twitter
- Radar:** Audiência bate recorde no Rio e em SP

## TEMAS EM FOCO

ABRIR

Eleições 2012

O resultado da votação em todo o Brasil

Julgamento do mensalão

STF começa a escrever o capítulo-final

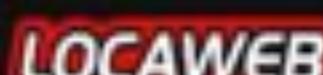
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Help Help Centre Documentation Copyright & License

Community Community Blogs Foundation User Diaries

GPS Traces Map Key

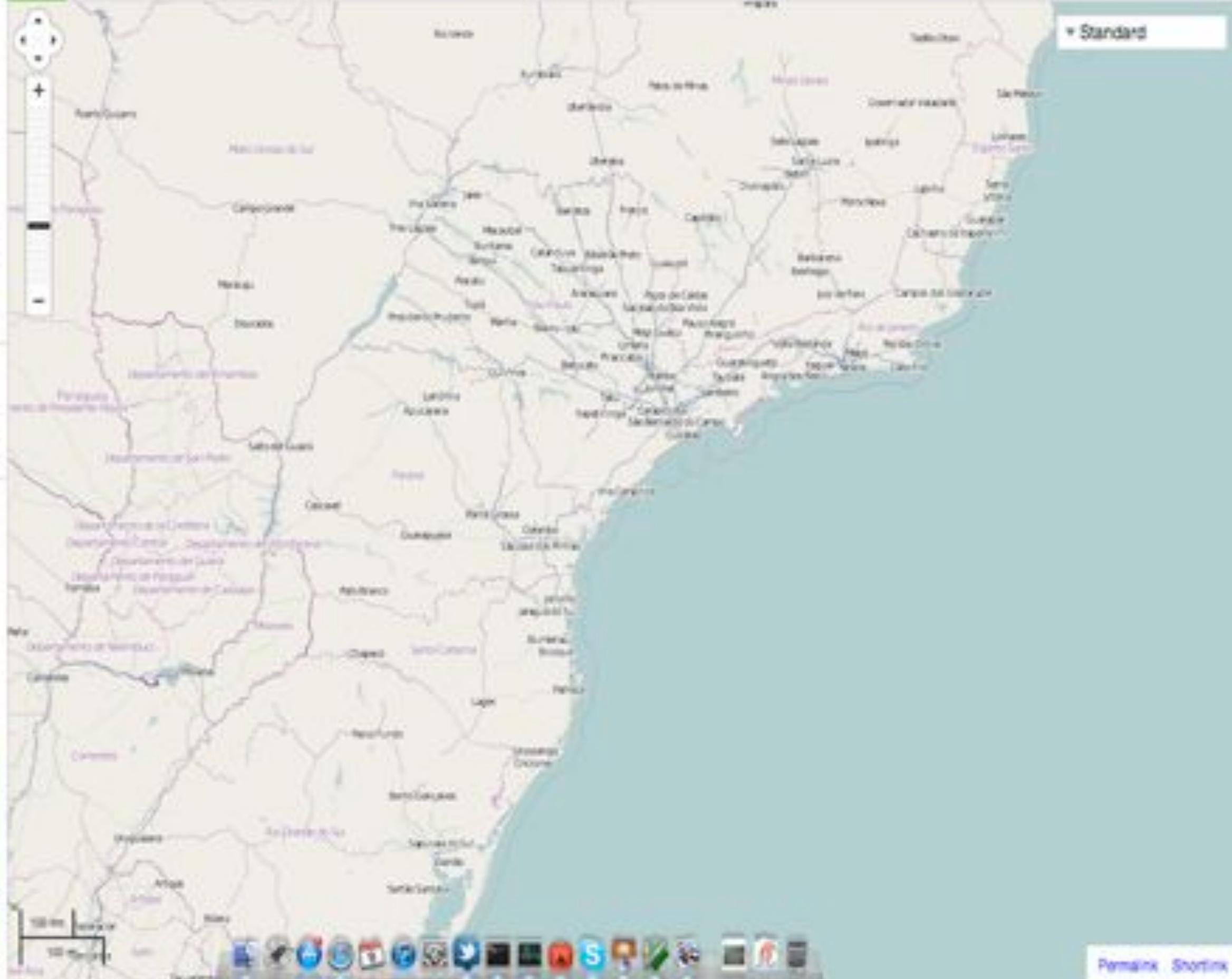
 STATE OF THE MAP USA 2012  
Portland, Oct 13-14  
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Make a Donation

Hosting is supported by the OCLC

100 m 100 meters 100 feet 100 feet

Permalink Shortlink





**ZERTICO**

Your business shining in  
the cloud

Keep me posted!

 Tweet 0  Like 114  Share

weather forecast  
**cloudy and sunny**

# High Profile Organisations using Rails

Prominent organisations using Ruby on Rails in the workplace.  
Read on to find out how the list has been compiled and how you can spread the word about Rails.



## Job Board



Reach the world's largest dedicated collection of Ruby on Rails developers

[Post a job](#) | [Proceed to the board](#)

## Recent Forum Topics

[Senior Software Engineer \(RoR\) Opening in San Francisco](#)  
In General Discussion

[Looking for Ruby and Cucumber Programmers](#)  
In Ask a Rails expert

[Answering Ruby On Rails Developer](#)  
In Ask a Rails expert

[Ruby On Rails w/ CoffeeScript and RestAPI](#)  
In General Discussion

[Rails as a job](#)  
In General Discussion

[Rails Freelancer/Company](#)  
In General Discussion

[Urgent - Looking for a rails developer to assist with the completion of a project](#)  
In Ask a Rails expert

[Ruby on Rails Developer Needed for NYC](#)  
In Working With Rails Website

[Re rendering parts of a page with javascript](#)  
In Ask a Rails expert

[Developer Job Opportunity](#)  
In Rails in the workplace



O que posso  
fazer?

# Aplicações de voz



- Interactive voice response systems (IVRs)
- Call Center Automation
- Data Gathering
- Voice 2.0

 Adhearsion

<http://adhearsion.com>

# Aplicações linha de comando



# Games



<https://github.com/qwertyreddy/rubystein>

# Aplicações desktop



Home Try JRuby! News Downloads Getting Started Community Documentation Security Contribute [SourceForge](#)

# JRuby

The **Ruby** Programming Language  
on the JVM

 Download the latest release - 1.7.0.RC2  
[tar](#) | [zip](#) | [exe](#) | [osx64](#) | [osx32](#) | [macosx64](#)

WHY JRUBY? GET STARTED LEARN GET INVOLVED

**The Best of the JVM**



- High performance
- Real threading
- Vast array of libraries

**It's Just Ruby**



- Ruby 1.8.7 & 1.9.2 compatible
- Both versions in single install

**Platform Independent**

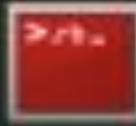


- Easy to Install
- Easy migration
- No hassles

# Desktop Applications



Fork On GitHub      DOWNLOAD THE 0.12 RELEASE ZIP

 MacRuby

Ruby for the Objective-C Runtime

Project maintained by [The MacRuby Team](#)      Hosted on GitHub Pages - Theme by [mehiggins](#)

## What Is MacRuby?

MacRuby is an implementation of Ruby 1.9 directly on top of Mac OS X core technologies such as the Objective-C runtime and garbage collector, the LLVM compiler infrastructure and the Foundation and ICU frameworks. It is the goal of MacRuby to enable the creation of full-fledged Mac OS X applications which do not sacrifice performance in order to enjoy the benefits of using Ruby.

### Get It

You can install the [latest stable release](#) or, if you are feeling adventurous, you can install one of the [nightly builds](#). See the [wiki](#) for [more detailed instructions](#).

### Build It

If you'd rather build your own MacRuby, simply clone the MacRuby repository from Github and follow the instructions from the [README](#).

### Use It

After installing, MacRuby is available from the command-line as `maccruby`. It also comes with project templates for use with Xcode. [Create your first application today!](#)

# Web Applications



Code    Network    Pull Requests    Issues    Wiki    Graphs

An opinionated micro-framework for creating REST-like APIs in Ruby. — Read more <http://doc.info/projects/grape>

Clone In Mac    ZIP    HTTP    Get Read-Only    <git://github.com/intridea/grape.git>    Read-Only access

Branch: master    Files    Commits    Branches    Tags: 36    Downloads: 8

Latest commit to the **master** branch

Minor typo. [Compare](#) [Edit on GitHub](#)

**grape /**

name	age	message	history
0.2.0	2 days ago	Bump version, start work on 0.2.0. [jblanch]	
.spec	5 days ago	Rewrite Grape::Middlewares::Versioner::Header to use Rack::Accept [prckinney]	
.document	2 years ago	Initial commit to grape. [mbright]	
.gitignore	a month ago	Added .swp to ignore list [mbright]	
.rspec	a year ago	Switch to Guard for autotesting. [mbright]	
.travis.yml	7 months ago	Update RSpec dependency, add 1.9.3 to Travis [mbright]	
CHANGELOG.markdown	2 days ago	Minor typo. [jblanch]	

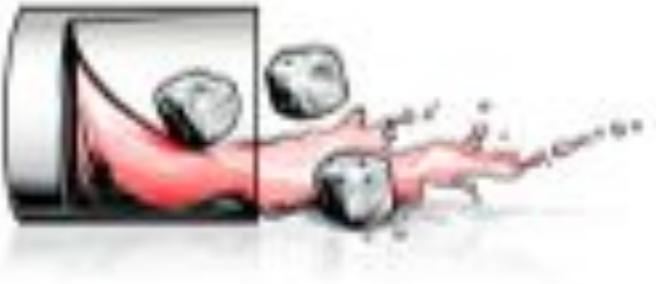
# Web Applications



# *Padrino*

CODE BLOG GUIDES API CONTRIBUTE WHY CHANGES TEAM

The Elegant Ruby Web Framework



git install git clone https://github.com/padrino/padrino.git cd padrino git pull origin master bundle install gem install padrino padrino start

SINATRA CORE  
DROP-IN ADMIN  
LIGHTWEIGHT  
AGNOSTIC  
COMPREHENSIVE



Padrino Admin

Dashboard

Padrino Admin is an easy way to manage your data!

# Web Applications



## Sinatra

Put this in  
your pipe

and smoke it

[README](#)  
[DOCUMENTATION](#)  
[CONTRIBUTE](#)  
[CODE](#)  
[CREW](#)  
[ABOUT](#)

```
require 'sinatra'  
  
get '/hi' do  
  "Hello World!"  
end
```

```
$ gem install sinatra  
$ ruby hi.rb  
--- Sinatra has taken the stage ...  
>> Listening on 0.0.0.0:4567
```

# Web Applications



[Overview](#) | [Download](#) | [Gallery](#) | [Issues/Patches](#) | [Screenshots](#) | [Documentation](#) | [Ecosystem](#) | [Community](#) | [Blog](#)



## Web development that doesn't hurt

Ruby on Rails® is 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.

Rails 3.2.10 released August 24, 2012, replaces version 3.2.9. Read the [release notes](#).

### Get Excited



[See more screenshots](#)

### Get Started



[Download version 3.2](#)

### Get Better



[Buy the book](#)

### Get Involved



[Join the community](#)

"Ruby on Rails is a breakthrough in lowering the barriers of entry to programming. Powerful web applications that formerly might have taken weeks or months to develop can be produced in a matter of days."

-Tim O'Reilly, Founder of O'Reilly Media

[Read more quotes](#)

### Who is already on Rails?

Tens of thousands of Rails applications are already live. People are using Rails in the tiniest part-time operations to the biggest companies.

# Web Applications



Overview | Download | Gallery | Issues/Patches | Screenshots | Documentation | Ecosystem | Community | Blog

 **Web development that doesn't hurt**

Ruby on Rails™ is 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.

Rails 3.2.14 released August 29, 2012, replace\_serve, delayed\_locales, static, Rails 3.2.8, Security fixes

**Get Excited** **Get Started** **Get Better** **Get Involved**

  
Subscriptions & Announcements

  
3.2.14 released Aug 29, 2012

  
Rails\_Guide\_Books

  
Join the community

"Ruby on Rails is a breakthrough in lowering the barriers of entry to programming. Powerful web applications that formerly might have taken weeks or months to develop can be produced in a matter of days."

-Tim O'Reilly, Founder of O'Reilly Media  
[Read more quotes](#)

**Who is already on Rails?**

Tens of thousands of Rails applications are already live. People are using Rails in the tiniest part-time operations to the biggest companies.

# Rails is...



Ruby on Rails® is 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

<http://rubyonrails.org>

# Rails is...



Ruby on Rails is intended to  
emphasize Convention over  
Configuration (CoC)

# Rails is...



Ruby on Rails is intended to emphasize  
Convention over Configuration (CoC)

Rapid development principle of Don't  
Repeat Yourself (DRY)

# Rails is...



Ruby on Rails is intended to emphasize  
Convention over Configuration (CoC)

Rapid development principle of Don't  
Repeat Yourself (DRY)

Fat models, skinny controllers

# Rails is...



Ruby on Rails is intended to emphasize  
Convention over Configuration (CoC)

Rapid development principle of Don't  
Repeat Yourself (DRY)

Fat models, skinny controllers



```
$ gem install rails  
$ rails new my-app -d mysql
```

```
.. (up a dir)
/Users/rafaelmacedo/Development/my-app/
> app/
> config/
> db/
> doc/
> lib/
> log/
> public/
> script/
> test/
> tmp/
> vendor/
  config.ru
  Gemfile
  Gemfile.lock
  Rakefile
  README.rdoc
```

/Users/rafaelmacedo/Development/my-app

```
/Users/rafaelmacedo/Development/my-app/  
+ app/  
+ assets/  
+ controllers/  
+ helpers/  
+ mailers/  
+ models/  
+ views/  
+ config/  
+ environments/  
+ initializers/  
+ locales/  
  application.rb  
  boot.rb  
  database.yml  
  environment.rb  
  routes.rb  
+ db/  
+ doc/  
+ lib/  
+ log/  
+ public/  
+ script/  
+ test/  
+ vendor/  
  config.ru  
  Gemfile  
  Gemfile.lock  
/Users/rafaelmacedo/Development/my-app
```



Routes

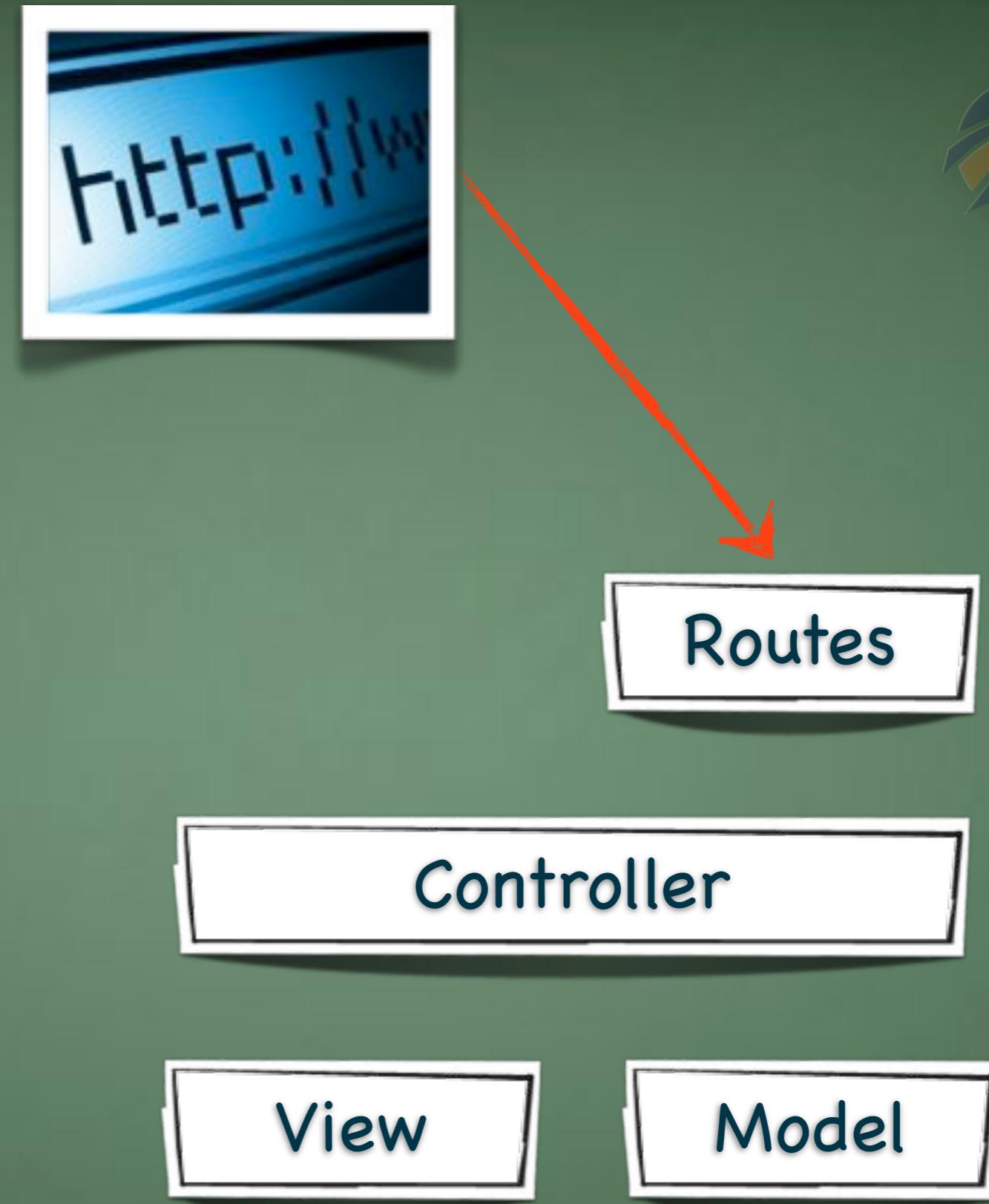
Controller

View

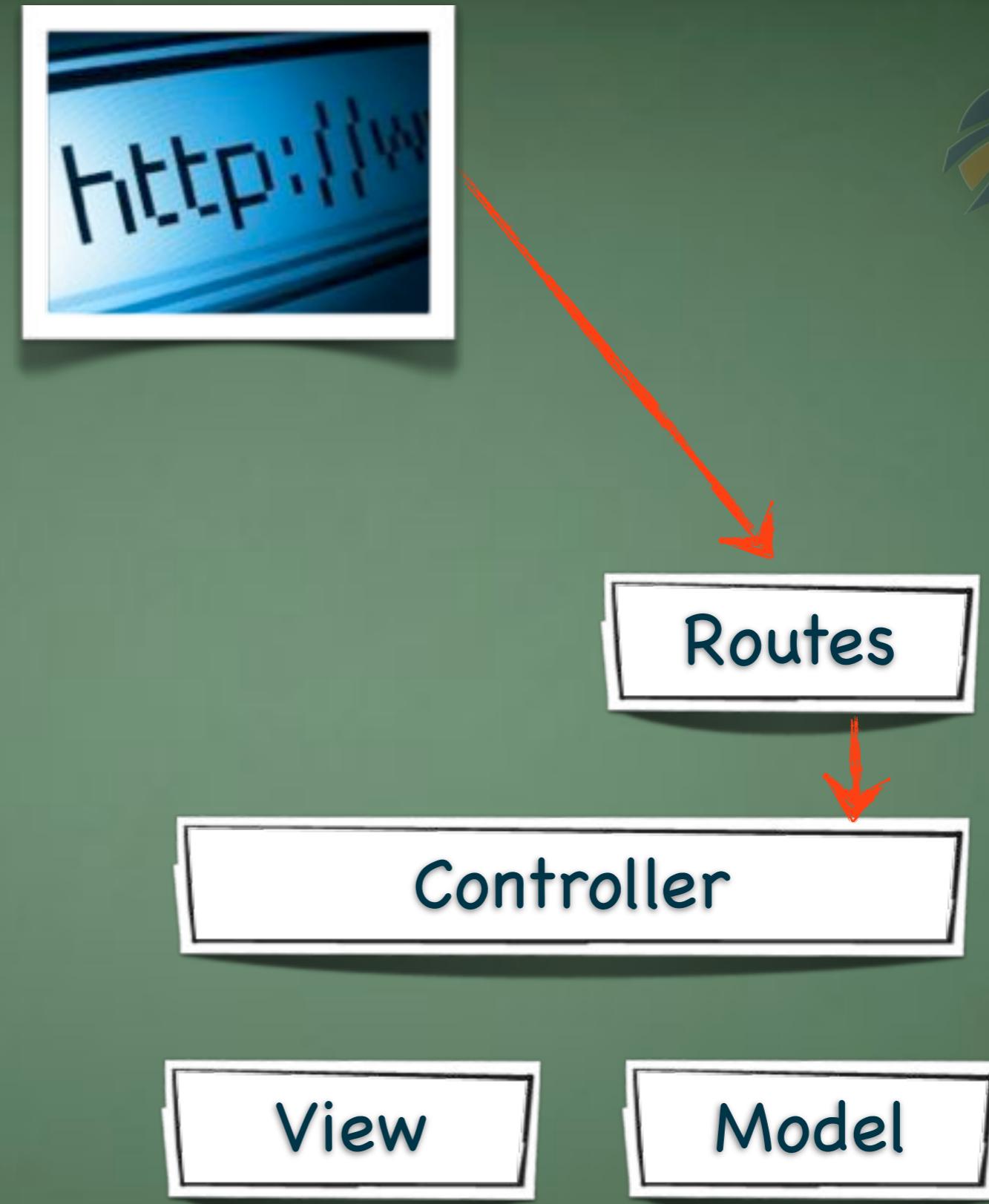
Model



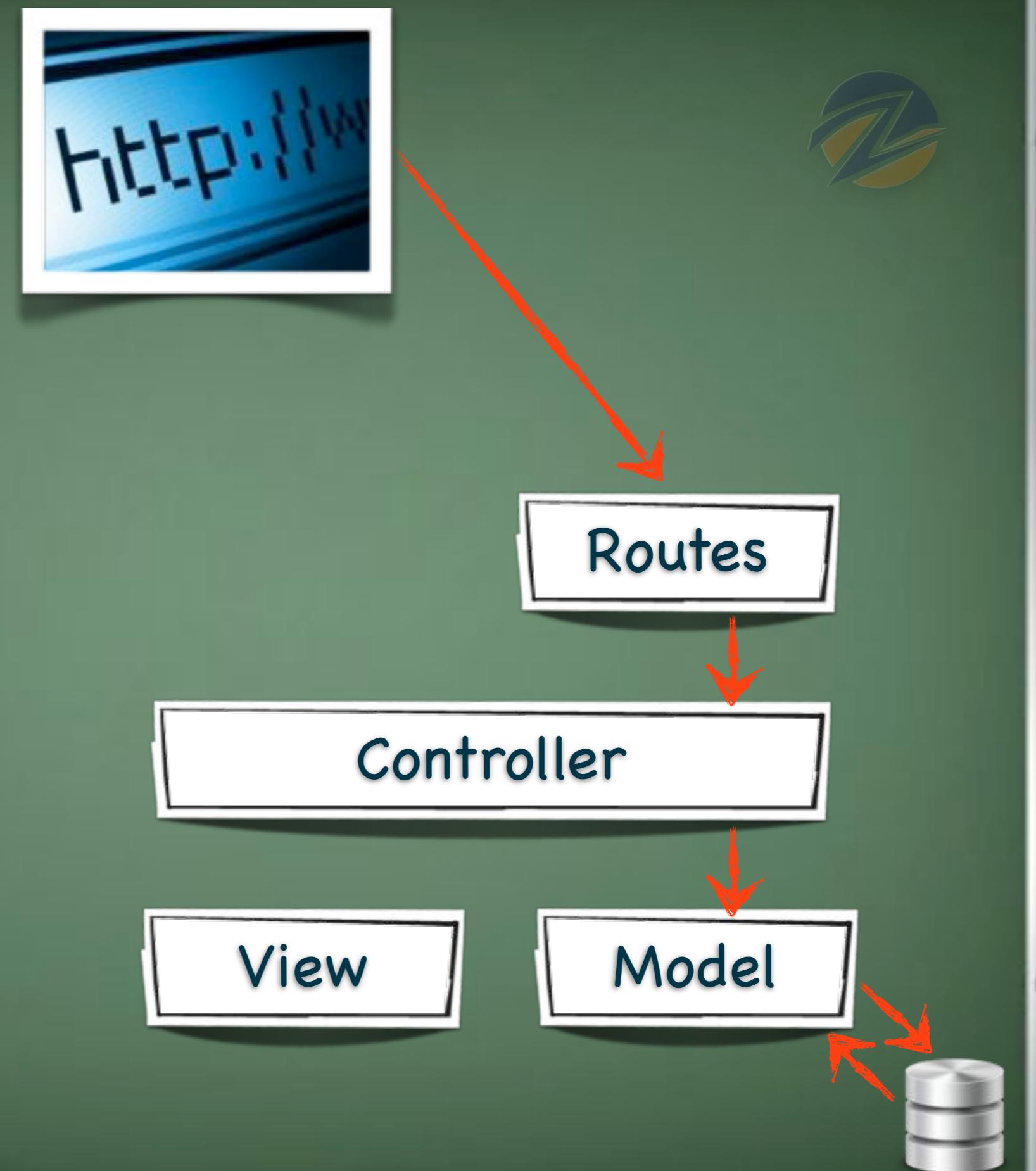
```
/Users/rafaelmacedo/Development/my-app/  
  - app/  
    - assets/  
    - controllers/  
    - helpers/  
    - mailers/  
    - models/  
    - views/  
  - config/  
    - environments/  
    - initializers/  
    - locales/  
      application.rb  
      boot.rb  
      database.yml  
      environment.rb  
      routes.rb  
    - db/  
    - doc/  
    - lib/  
    - log/  
    - public/  
    - script/  
    - test/  
    - vendor/  
      config.ru  
      Gemfile  
      Gemfile.lock  
/Users/rafaelmacedo/Development/my-app
```



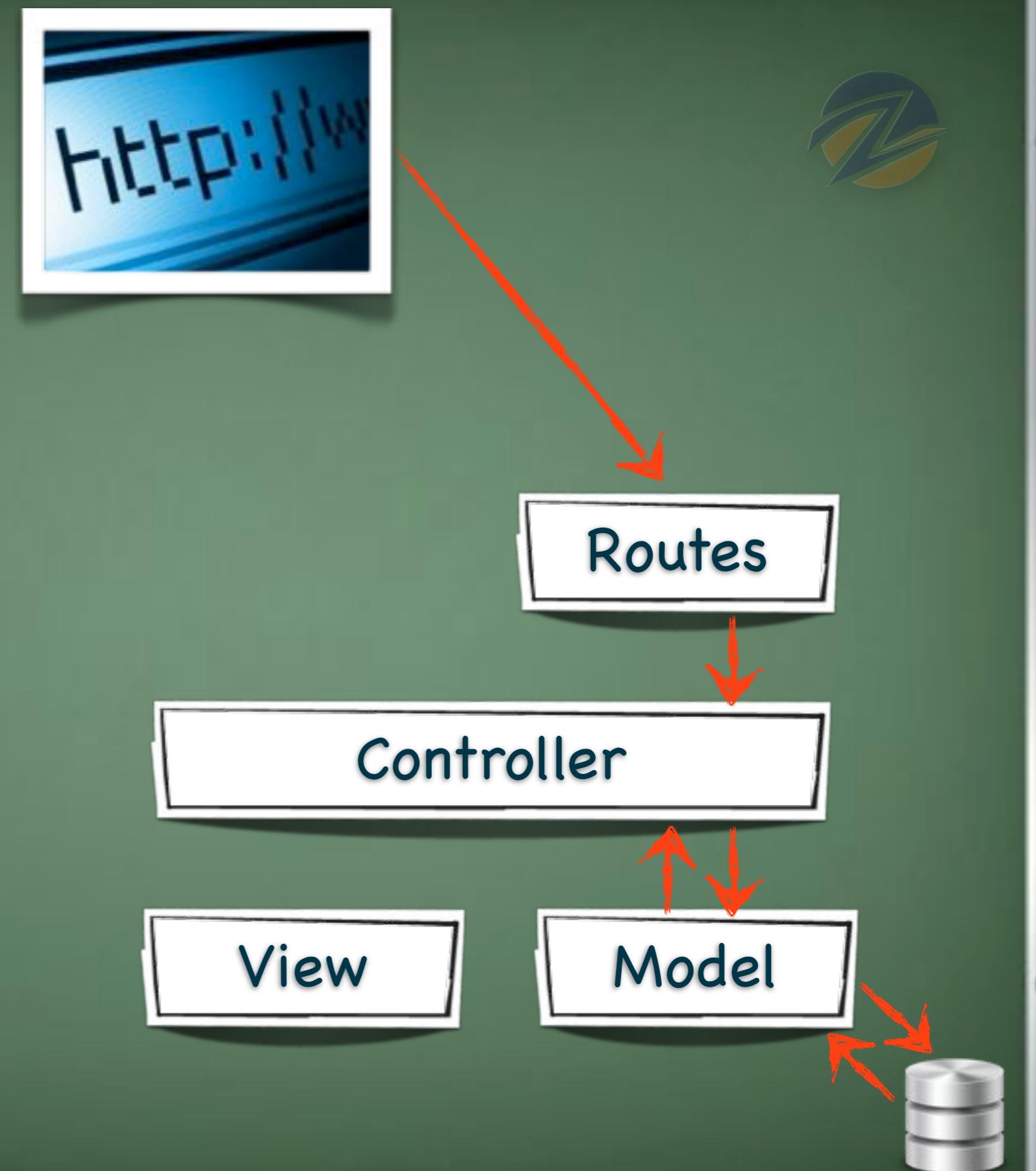
```
/Users/rafaelmacedo/Development/my-app/  
+ app/  
  + assets/  
  + controllers/ circled  
  + helpers/  
  + mailers/  
  + models/  
  + views/  
+ config/  
  + environments/  
  + initializers/  
  + locales/  
    application.rb  
    boot.rb  
    database.yml  
    environment.rb  
    routes.rb  
+ db/  
+ doc/  
+ lib/  
+ log/  
+ public/  
+ script/  
+ test/  
+ vendor/  
  config.ru  
  Gemfile  
  Gemfile.lock  
/Users/rafaelmacedo/Development/my-app
```



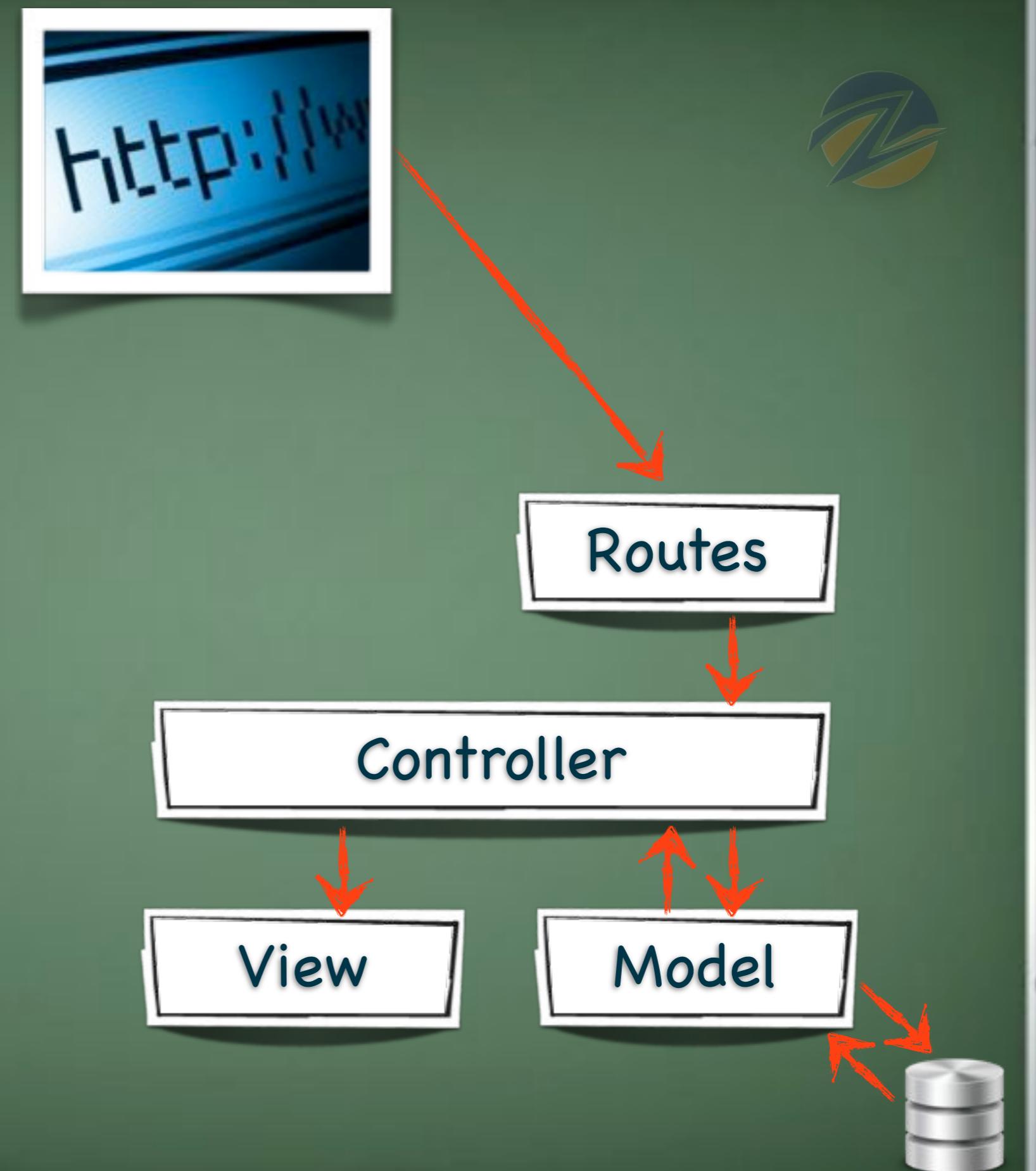
```
/Users/rafaelmacedo/Development/my-app/  
  - app/  
    + assets/  
    + controllers/  
    + helpers/  
    + mailers/  
    + models/ (circled)  
    + views/  
  - config/  
    + environments/  
    + initializers/  
    + locales/  
      application.rb  
      boot.rb  
      database.yml  
      environment.rb  
      routes.rb  
  + db/  
  + doc/  
  + lib/  
  + log/  
  + public/  
  + script/  
  + test/  
  + vendor/  
    config.ru  
    Gemfile  
    Gemfile.lock  
/Users/rafaelmacedo/Development/my-app
```



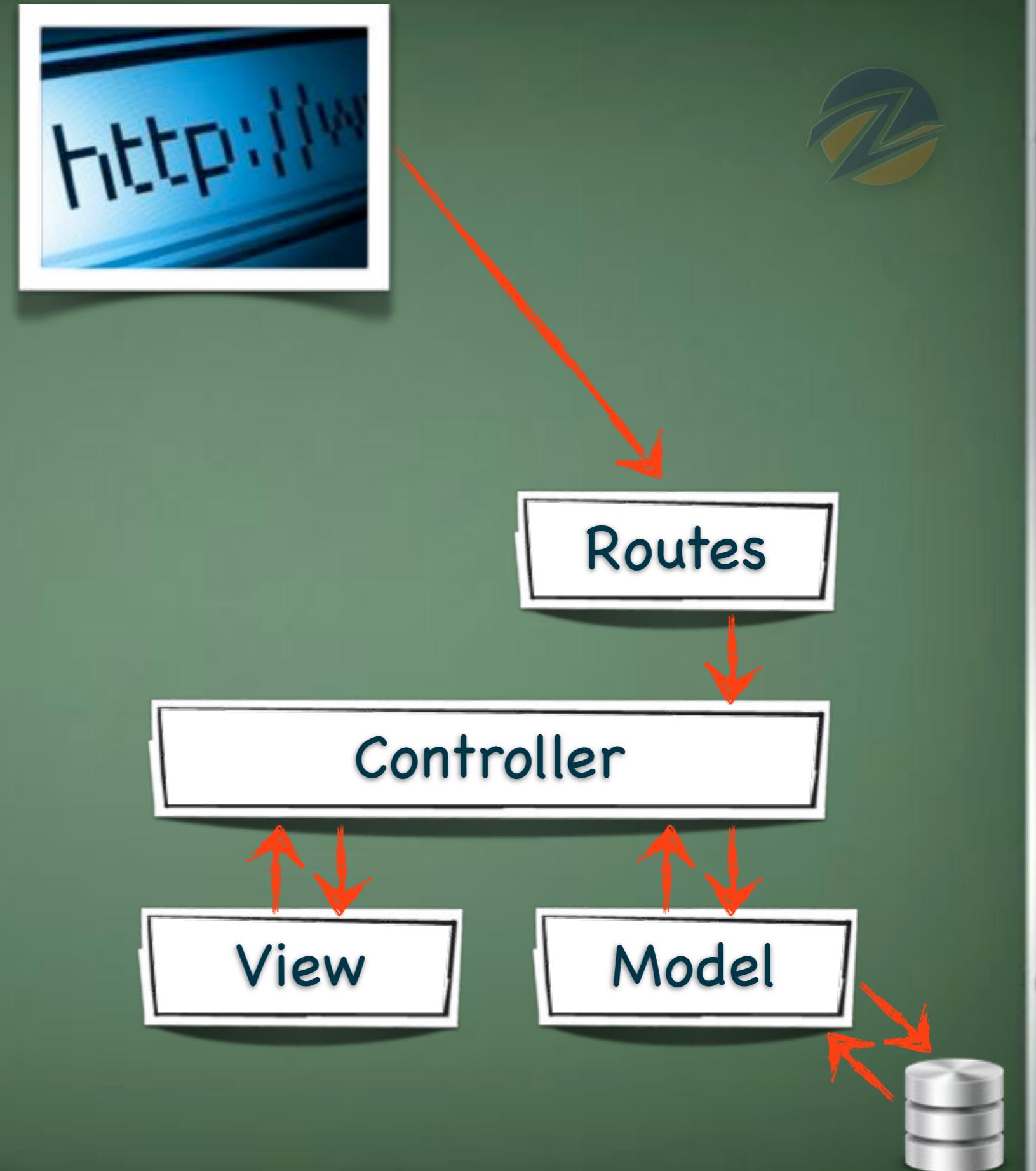
```
/Users/rafaelmacedo/Development/my-app/  
  - app/  
    - assets/  
    - controllers/  
    - helpers/  
    - mailers/  
    - models/  
    - views/  
  - config/  
    - environments/  
    - initializers/  
    - locales/  
      application.rb  
      boot.rb  
      database.yml  
      environment.rb  
      routes.rb  
  - db/  
  - doc/  
  - lib/  
  - log/  
  - public/  
  - script/  
  - test/  
  - vendor/  
    config.ru  
    Gemfile  
    Gemfile.lock  
/Users/rafaelmacedo/Development/my-app
```



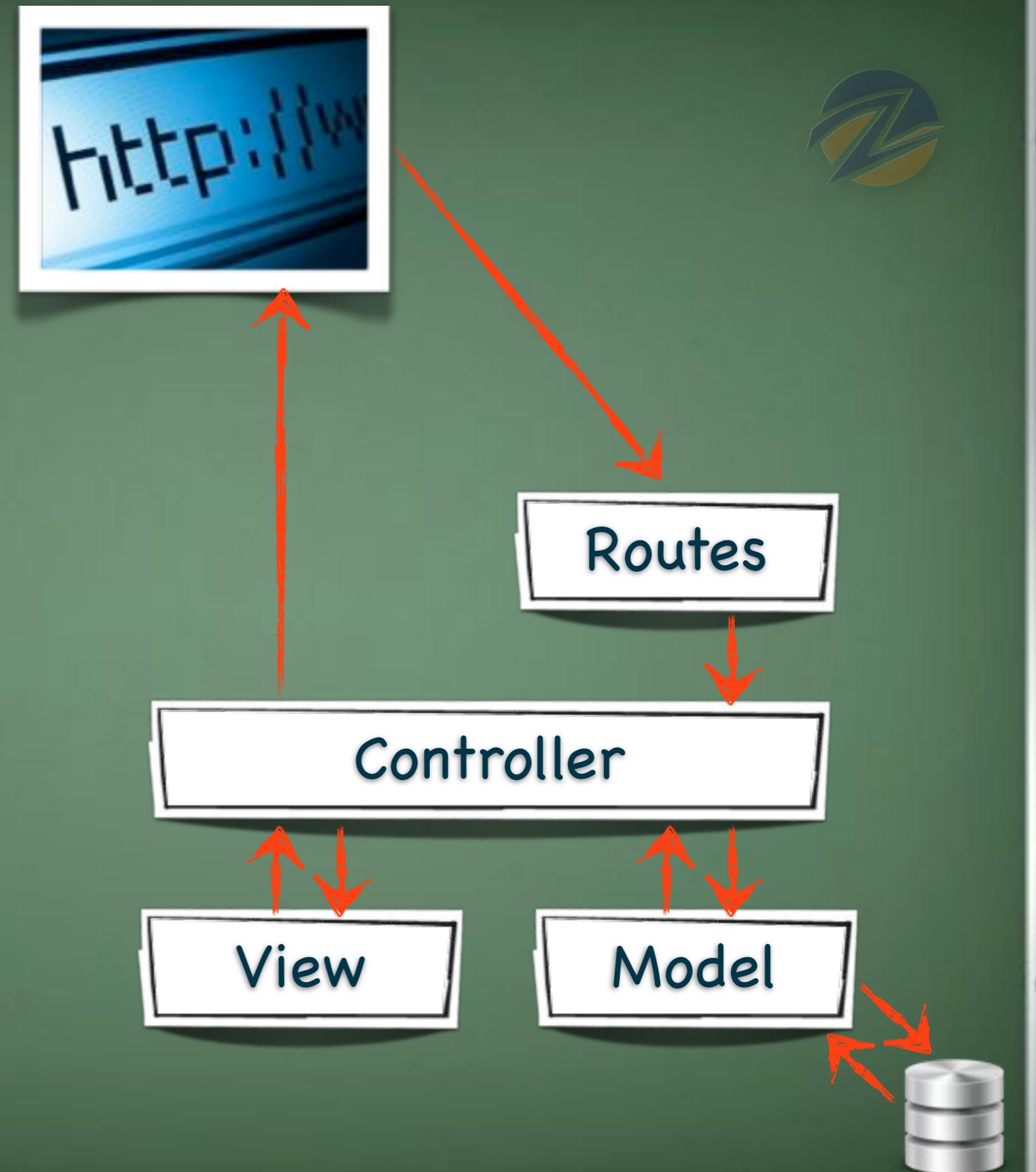
```
/Users/rafaelmacedo/Development/my-app/  
  - app/  
    - assets/  
    - controllers/  
    - helpers/  
    - mailers/  
    - models/  
    - views/ (1)  
  - config/  
    - environments/  
    - initializers/  
    - locales/  
      application.rb  
      boot.rb  
      database.yml  
      environment.rb  
      routes.rb  
  - db/  
  - doc/  
  - lib/  
  - log/  
  - public/  
  - script/  
  - test/  
  - vendor/  
    config.ru  
    Gemfile  
    Gemfile.lock  
/Users/rafaelmacedo/Development/my-app
```



```
/Users/rafaelmacedo/Development/my-app/  
  - app/  
    - assets/  
    - controllers/  
    - helpers/  
    - mailers/  
    - models/  
    - views/  
  - config/  
    - environments/  
    - initializers/  
    - locales/  
      application.rb  
      boot.rb  
      database.yml  
      environment.rb  
      routes.rb  
  - db/  
  - doc/  
  - lib/  
  - log/  
  - public/  
  - script/  
  - test/  
  - vendor/  
    config.ru  
    Gemfile  
    Gemfile.lock  
/Users/rafaelmacedo/Development/my-app
```



```
/Users/rafaelmacedo/Development/my-app/  
  - app/  
    - assets/  
    - controllers/  
    - helpers/  
    - mailers/  
    - models/  
    - views/  
  - config/  
    - environments/  
    - initializers/  
    - locales/  
      application.rb  
      boot.rb  
      database.yml  
      environment.rb  
      routes.rb  
  - db/  
  - doc/  
  - lib/  
  - log/  
  - public/  
  - script/  
  - test/  
  - vendor/  
    config.ru  
    Gemfile  
    Gemfile.lock  
/Users/rafaelmacedo/Development/my-app
```



```
" Press ? for help
.. (up a dir)
source 'https://rubygems.org'

... (up a dir)
/Users/rafaelmacedo/Development
> app/
> config/
> db/
> doc/
> lib/
> log/
> public/
> script/
> test/
> vendor/
config.ru
Gemfile
Gemfile.lock
Rakefile
README.rdoc

1 gem 'rails', '3.2.8'
2
3 # Bundle edge Rails instead:
4 # gem 'rails', :git => 'git://github.com/rails/rails.git'
5
6
7 gem 'mysql2'
8
9
10
11 # Gems used only for assets and not required
12 # in production environments by default.
13 group :assets do
14   gem 'sass-rails',    '~= 3.2.3'
15   gem 'coffee-rails', '~= 3.2.1'
16
17 # See https://github.com/sstephenson/execjs#readme for more supported runtimes
18 # gem 'therubyracer', :platforms => :ruby
19
20   gem 'uglifier', '~= 1.0.3'
21 end
22
23 gem 'jquery-rails'
24
25 # To use ActiveRecord has_secure_password
```

```
" Press ? for help
.. (up a dir)
/Users/rafaelmacedo/Development
> app/
> config/
> db/
> doc/
> lib/
> log/
> public/
> script/
> test/
> vendor/
config.ru
Gemfile
Gemfile.lock
Rakefile
README.rdoc
```

```
source 'https://rubygems.org'

gem 'rails', '3.2.8'

# Bundle edge Rails instead:
# gem 'rails', :git => 'git://github.com/rails/rails.git'

gem 'mysql2'

# Gems used only for assets and not required
# in production environments by default.
group :assets do
  gem 'sass-rails',    '~> 3.2.3'
  gem 'coffee-rails',  '~> 3.2.1'

  # See https://github.com/sstephenson/execjs#readme for more supported runtimes
  # gem 'therubyracer', :platforms => :ruby

  gem 'uglifier', '>= 1.0.3'
end

gem 'jquery-rails'

# To use ActiveRecord has_secure_password
```

/Users/rafaelmacedo/Development/my-app/  
- app/  
+ oss/  
+ con/  
+ hel/  
+ mai/  
+ mod/  
+ vie/  
- config/  
+ env/  
+ ini/  
+ loc/  
app/  
boo/  
dat/  
env/  
rou/  
+ db/  
+ doc/  
+ lib/  
+ log/  
+ publi/  
+ scrip/  
+ test/  
+ vendo/  
confi/  
Gemfile  
Gemfile.lock  
/Users/rafaelmacedo/Development/my-app

# RubyGems.org

your community gem host

931,767,502 downloads  
of 45,470 gems cut since July 2009

Welcome to your community RubyGem host.  
Find your gems easier, publish them faster, and have fun doing it.

### LEARN

**Install RubyGems 1.8.24**  
Ruby's premier packaging system

**Browse the Guides**  
In-depth explanations, tutorials, and references

**Gem Specification**  
Your gem's interface to the world

### SHARE

**gem update --system**  
Update to the latest RubyGems version

**gem build foo.gemspec**  
Build your gem

**gem push foo-1.0.0.gem**  
Deploy your gem instantly

RubyGems.org is the Ruby community's gem hosting service. Instantly publish your gems and install them. Use the API to interact and find out more information about available gems. Become a contributor and enhance the site with your own changes.

/Users/rafaelmacedo/Development/my-app/  
- app/  
  + assets/  
  + controllers/  
  + helpers/  
  + models/  
  + routes/  
  + views/  
- config.ru  
- Gemfile  
- Gemfile.lock  
/Users/rafaelmacedo/Development/my-app

Home | Sign in using your GitHub account

**The Ruby Toolbox**

Home Categories Projects Resources Blog

Search f

News on project suggestions and an outlook of things to come: Check the latest blog post here!

## mina

Really fast deployer and server automation tool.

Show more

## dante

Turn any process into a demon.

Show more

## oj

The fastest JSON parser and object serializer.

Show more

## headless

Headless is a Ruby interface for Xvfb. It allows you to create a headless display straight from Ruby code, hiding some low-level action.

Show more

## public\_activity

Smooth activity tracking for your ActiveRecord models. Provides Activity model with details about actions performed by your users, like adding comments, responding etc.

Show more

### Categories by group (Show by name)

Active Record Plugins

Sponsored by  
Make it suck less with  
Tower - the Git client for Mac.

Monday, October 15, 12

```
/Users/rafaelmocedo/Development/my-app/  
  - app/  
    + assets/  
    + control/  
    + helpers/  
    + mailers/  
    + models/  
    + views/  
  - config/  
    + environ/  
    + initial/  
    + locales/  
      applica/  
      boot.rb/  
      database/  
      environ/  
      routes/  
    + db/  
    + doc/  
    + lib/  
    + log/  
    + public/  
    + script/  
    + test/  
    + vendor/  
  config.ru  
  Gemfile  
  Gemfile.lock  
/Users/rafaelmocedo/Development/my-app
```

The best way to manage your application's dependencies

# Bundler



## What Is Bundler?

Bundler is a tool that maintains a consistent environment for a developer's code across all machines. When a developer's code is run on different machines, the libraries the developer originally built their code on may change. This breaks the developer's application. Bundler ensures that the libraries will remain the same, taping everything together so that the developer's application runs smoothly on every machine where it is deployed.

## Getting Started

Getting started with bundler is easy! Open a terminal window and type the following:



# bundle install

```
/Users/rafaelmacedo/Development/my-app/
  - app/
    + assets/
    + controllers/
    + helpers/
    + mailers/
    + models/
    + views/
  - config/
    + environments/
    + initializers/
    + locales/
      application.rb
      boot.rb
      database.yml
      environment.rb
      routes.rb
  + db/
  + doc/
  + lib/
  + log/
  + public/
  + script/
  + test/
  + vendor/
    config.ru
    Gemfile
    Gemfile.lock

```

```
$ [rafaelmacedo] ~/Development/my-app using [ruby-1.9.3p194]
$ bundle list
```

Gems included by the bundle:

- \* actionmailer (3.2.8)
- \* actionpack (3.2.8)
- \* activemodel (3.2.8)
- \* activerecord (3.2.8)
- \* activeresource (3.2.8)
- \* activesupport (3.2.8)
- \* arel (3.0.2)
- \* builder (3.0.3)
- \* bundler (1.2.1)
- \* coffee-rails (3.2.2)
- \* coffee-script (2.2.0)
- \* coffee-script-source (1.3.3)
- \* erubis (2.7.0)
- \* execjs (1.4.8)
- \* hike (1.2.1)
- \* i18n (0.6.1)
- \* journey (1.0.4)
- \* jquery-rails (2.1.3)
- \* json (1.7.5)
- \* mail (2.4.4)
- \* mime-types (1.19)
- \* multi\_json (1.3.6)
- \* mysql2 (0.3.11)
- \* polyglot (0.3.3)
- \* rack (1.4.1)
- \* rack-cache (1.2)
- \* rack-ssl (1.3.2)
- \* rack-test (0.6.2)
- \* rails (3.2.8)
- \* railties (3.2.8)
- \* rake (0.9.2.2)
- \* rdoc (3.12)
- \* sass (3.2.1)
- \* sass-rails (3.2.5)
- \* sprockets (2.1.3)
- \* thor (0.16.0)
- \* tilt (1.3.3)
- \* treeTop (1.4.11)
- \* tzinfo (0.3.33)
- \* uglifier (1.3.0)



# rake -T

```
/Users/rafaelmacedo/Development/my-app/
  - app/
    + assets/
    + controllers/
    + helpers/
    + mailers/
    + models/
    + views/
  - config/
    + environments/
    + initializers/
    + locales/
      application.rb
      boot.rb
      database.yml
      environment.rb
      routes.rb
  + db/
  + doc/
  + lib/
  + log/
  + public/
  + script/
  + test/
  + vendor/
    config.ru
    Gemfile
    Gemfile.lock
/Users/rafaelmacedo/Development/my-app
```

```
$ [rafaelmacedo] ~/Development/my-app using [ruby-1.9.3p194]
$ rake -T
rake about          # List versions of all Rails frameworks and the environment
rake assets:clean   # Remove compiled assets
rake assets:precompile # Compile all the assets named in config.assets.precompile
rake db:create       # Create the database from config/database.yml for the current Rails.env (use db:create:all to create all dbs in...)
rake db:drop         # Drops the database for the current Rails.env (use db:drop:all to drop all databases)
rake db:fixtures:load # Load fixtures into the current environment's database.
rake db:migrate      # Migrate the database (options: VERSION=x, VERBOSE=false).
rake db:migrate:status # Display status of migrations
rake db:rollback     # Rolls the schema back to the previous version (specify steps w/ STEP=n).
rake db:schema:dump  # Create a db/schema.rb file that can be portably used against any DB supported by AR
rake db:schema:load  # Load a schema.rb file into the database
rake db:seed          # Load the seed data from db/seeds.rb
rake db:setup         # Create the database, load the schema, and initialize with the seed data (use db:reset to also drop the db first)
rake db:structure:dump # Dump the database structure to db/structure.sql. Specify another file with DB_STRUCTURE=db/my_structure.sql
rake db:version       # Retrieves the current schema version number
rake doc:app          # Generate docs for the app -- also available doc:rails, doc:guides, doc:plugins (options: TEMPLATE=/rdoc-templa...
rake log:clear        # Truncates all *.log files in log/ to zero bytes
rake middleware       # Prints out your Rack middleware stack
rake notes            # Enumerate all annotations (use notes:optimize, :fixme, :todo for focus)
rake notes:custom     # Enumerate a custom annotation, specify with ANNOTATION=CUSTOM
rake rails:template   # Applies the template supplied by LOCATION=(/path/to/template) or URL
rake rails:update     # Update configs and some other initially generated files (or use just update:configs, update:scripts, or update...
rake routes           # Print out all defined routes in match order, with names.
rake secret           # Generate a cryptographically secure secret key (this is typically used to generate a secret for cookie sessions).
rake stats             # Report code statistics (KLOCs, etc) from the application
rake test              # Runs test:units, test:functionals, test:integration together (also available: test:benchmark, test:profile, te...
rake test:recent       # Run tests for {:recent=>"test:prepare"} / Test recent changes
rake test:single        # Run tests for {:single=>"test:prepare"}
rake test:uncommitted   # Run tests for {:uncommitted=>"test:prepare"} / Test changes since last checkin (only Subversion and Git)
rake time:zones:all     # Displays all time zones, also available: time:zones:us, time:zones:local -- filter with OFFSET parameter, e.g....
rake tmp:clear          # Clear session, cache, and socket files from tmp/ (narrow w/ tmp:sessions:clear, tmp:cache:clear, tmp:sockets:c...
rake tmp:create         # Creates tmp directories for sessions, cache, sockets, and pids
[rafaelmacedo] ~/Development/my-app using [ruby-1.9.3p194]
$ 
[rafaelmacedo] ~/Development/my-app using [ruby-1.9.3p194]
$
```

```
$ [rafaelmacedo] ~/Development/my-app using [ruby-1.9.3p194]
$ rake -T
rake about          # List versions of all Rails frameworks and the environment
rake assets:clean   # Remove compiled assets
rake assets:precompile # Compile all the assets named in config.assets.precompile
rake db:create       # Create the database from config/database.yml for the current Rails.env (use db:create:all to create all dbs in...)
rake db:drop         # Drops the database for the current Rails.env (use db:drop:all to drop all databases)
rake db:fixtures:load # Load fixtures into the current environment's database.
rake db:migrate      # Migrate the database (options: VERSION=x, VERBOSE=false).
rake db:migrate:status # Display status of migrations
rake db:rollback     # Rolls the schema back to the previous version (specify steps w/ STEP=n).
rake db:schema:dump  # Create a db/schema.rb file that can be portably used against any DB supported by AR
rake db:schema:load  # Load a schema.rb file into the database
rake db:seed          # Load the seed data from db/seeds.rb
rake db:setup         # Create the database, load the schema, and initialize with the seed data (use db:reset to also drop the db first)
rake db:structure:dump # Dump the database structure to db/structure.sql. Specify another file with DB_STRUCTURE=db/my_structure.sql
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rake log:clear        # Truncates all *.log files in log/ to zero bytes
rake middleware       # Prints out your Rack middleware stack
rake notes            # Enumerate all annotations (use notes:optimize, :fixme, :todo for focus)
rake notes:custom     # Enumerate a custom annotation, specify with ANNOTATION=CUSTOM
rake rails:template   # Applies the template supplied by LOCATION=(/path/to/template) or URL
rake rails:update     # Update configs and some other initially generated files (or use just update:configs, update:scripts, or update...
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rake secret           # Generate a cryptographically secure secret key (this is typically used to generate a secret for cookie sessions).
rake stats             # Report code statistics (KLOCs, etc) from the application
rake test              # Runs test:units, test:functionals, test:integration together (also available: test:benchmark, test:profile, te...
rake test:recent       # Run tests for {:recent=>"test:prepare"} / Test recent changes
rake test:single        # Run tests for {:single=>"test:prepare"}
rake test:uncommitted   # Run tests for {:uncommitted=>"test:prepare"} / Test changes since last checkin (only Subversion and Git)
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rake tmp:clear          # Clear session, cache, and socket files from tmp/ (narrow w/ tmp:sessions:clear, tmp:cache:clear, tmp:sockets:c...
rake tmp:create         # Creates tmp directories for sessions, cache, sockets, and pids
[rafaelmacedo] ~/Development/my-app using [ruby-1.9.3p194]
$ 
[rafaelmacedo] ~/Development/my-app using [ruby-1.9.3p194]
$
```

```
$ [rafaelmacedo] ~/Development/my-app using [ruby-1.9.3p194]
$ rake -T
rake about                                # List versions of all Rails frameworks and the environment
rake assets:clean                          # Remove compiled assets
rake assets:precompile                     # Compile all the assets named in config.assets.precompile
rake db:create                             # Create the database from config/database.yml for the current Rails.env (use db:create:all to create all dbs in...)
rake db:drop                               # Drops the database for the current Rails.env (use db:drop:all to drop all databases)
rake db:fixtures:load                      # Load fixtures into the current environment's database.
rake db:migrate                            # Migrate the database (options: VERSION=x, VERBOSE=false).
rake db:migrate:status                    # Display status of migrations
rake db:rollback                           # Rolls the schema back to the previous version (specify steps w/ STEP=n).
rake db:schema:dump                       # Create a db/schema.rb file that can be portably used against any DB supported by AR
rake db:schema:load                       # Load a schema.rb file into the database
rake db:seed                               # Load the seed data from db/seeds.rb
rake db:setup                             # Create the database, load the schema, and initialize with the seed data (use db:reset to also drop the db first)
rake db:structure:dump                   # Dump the database structure to db/structure.sql. Specify another file with DB_STRUCTURE=db/my_structure.sql
rake db:version                           # Retrieves the current schema version number
rake doc:app                             # Generate docs for the app -- also available doc:rails, doc:guides, doc:plugins (options: TEMPLATE=/rdoc-templa...
rake log:clear                           # Truncates all *.log files in log/ to zero bytes
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rake rails:template                      # Applies the template supplied by LOCATION=(/path/to/template) or URL
rake rails:update                         # Update configs and some other initially generated files (or use just update:configs, update:scripts, or update...
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rake secret                            # Generate a cryptographically secure secret key (this is typically used to generate a secret for cookie sessions).
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rake tmp:create                          # Creates tmp directories for sessions, cache, sockets, and pids
[rafaelmacedo] ~/Development/my-app using [ruby-1.9.3p194]
$ 
[rafaelmacedo] ~/Development/my-app using [ruby-1.9.3p194]
$
```

```
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$ rake -T
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rake assets:precompile # Compile all the assets named in config.assets.precompile
rake db:create       # Create the database from config/database.yml for the current Rails.env (use db:create:all to create all dbs in...)
rake db:drop         # Drops the database for the current Rails.env (use db:drop:all to drop all databases)
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rake db:structure:dump # Dump the database structure to db/structure.sql. Specify another file with DB_STRUCTURE=db/my_structure.sql
rake db:version        # Retrieves the current schema version number
rake doc:app           # Generate docs for the app -- also available doc:rails, doc:guides, doc:plugins (options: TEMPLATE=/rdoc-templa...
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rake rails:template    # Applies the template supplied by LOCATION=(/path/to/template) or URL
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rake routes            # Print out all defined routes in match order, with names.
rake secret             # Generate a cryptographically secure secret key (this is typically used to generate a secret for cookie sessions).
rake stats              # Report code statistics (KLOCs, etc) from the application
rake test               # Runs test:units, test:functionals, test:integration together (also available: test:benchmark, test:profile, te...
rake test:recent        # Run tests for {:recent=>"test:prepare"} / Test recent changes
rake test:single         # Run tests for {:single=>"test:prepare"}
rake test:uncommitted   # Run tests for {:uncommitted=>"test:prepare"} / Test changes since last checkin (only Subversion and Git)
rake time:zones:all     # Displays all time zones, also available: time:zones:us, time:zones:local -- filter with OFFSET parameter, e.g....
rake tmp:clear           # Clear session, cache, and socket files from tmp/ (narrow w/ tmp:sessions:clear, tmp:cache:clear, tmp:sockets:c...
rake tmp:create          # Creates tmp directories for sessions, cache, sockets, and pids
[rafaelmacedo] ~/Development/my-app using [ruby-1.9.3p194]
$ 
[rafaelmacedo] ~/Development/my-app using [ruby-1.9.3p194]
$
```



# rake db:create

```
/Users/rafaelmacedo/Development/my-app/
  - app/
    + assets/
    + controllers/
    + helpers/
    + mailers/
    + models/
    + views/
  - config/
    + environments/
    + initializers/
    + locales/
      application.rb
      boot.rb
      database.yml database.yml
      environment.rb
      routes.rb
  + db/
  + doc/
  + lib/
  + log/
  + public/
  + script/
  + test/
  + vendor/
    config.ru
    Gemfile
    Gemfile.lock
/Users/rafaelmacedo/Development/my-app
```

```
.. (up a dir)
/Users/rafaelmacedo/Development
+ app/
- config/
  + environments/
  + initializers/
  + locales/
  application.rb
  boot.rb
  database.yml
  environment.rb
  routes.rb
+ db/
+ doc/
+ lib/
+ log/
+ public/
+ script/
+ test/
+ vendor/
config.ru
Gemfile
Gemfile.lock
Rakefile
README.rdoc
```

```
development:
  adapter: mysql2
  encoding: utf8
  reconnect: false
  database: my-app_development
  pool: 5
  username: root
  password:
  host: localhost

test:
  adapter: mysql2
  encoding: utf8
  reconnect: false
  database: my-app_test
  pool: 5
  username: root
  password:
  host: localhost

production:
  adapter: mysql2
  encoding: utf8
  reconnect: false
  database: my-app_production
  pool: 5
  username: root
  password:
```



# rails generate

```
/Users/rafaelmacedo/Development/my-app/
  - app/
    + assets/
    + controllers/
    + helpers/
    + mailers/
    + models/
    + views/
  - config/
    + environments/
    + initializers/
    + locales/
      application.rb
      boot.rb
      database.yml
      environment.rb
      routes.rb
  + db/
  + doc/
  + lib/
  + log/
  + public/
  + script/
  + test/
  + vendor/
    config.ru
    Gemfile
    Gemfile.lock
/Users/rafaelmacedo/Development/my-app
```

```
[rafaelmacedo] ~/Development/my-app using [ruby-1.9.3p194]
```

```
$ rails generate
```

```
Usage: rails generate GENERATOR [args] [options]
```

```
General options:
```

```
-h, [--help]      # Print generator's options and usage
-p, [--pretend]   # Run but do not make any changes
-f, [--force]     # Overwrite files that already exist
-s, [--skip]      # Skip files that already exist
-q, [--quiet]     # Suppress status output
```

```
Please choose a generator below.
```

```
Rails:
```

```
assets
controller
generator
helper
integration_test
mailer
migration
model
observer
performance_test
resource
scaffold
scaffold_controller
session_migration
task
```

```
Coffee:
```

```
coffee:assets
```

```
Jquery:
```

```
jquery:install
```

```
Js:
```

```
js:assets
```

```
[rafaelmacedo] ~/Development/my-app using [ruby-1.9.3p194]
```

```
$ rails generate
```

```
Usage: rails generate GENERATOR [args] [options]
```

```
General options:
```

```
-h, [--help]      # Print generator's options and usage  
-p, [--pretend]   # Run but do not make any changes  
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-s, [--skip]      # Skip files that already exist  
-q, [--quiet]     # Suppress status output
```

```
Please choose a generator below.
```

```
Rails:
```

```
assets  
controller  
generator  
helper  
integration_test  
mailer  
migration  
model  
observer  
performance_test  
resource  
scaffold  
scaffold_controller  
session_migration  
task
```

```
Coffee:
```

```
coffee:assets
```

```
Jquery:
```

```
jquery:install
```

```
Js:
```

```
js:assets
```

```
$ rails g scaffold post title body:text published_at:datetime
  invoke  active_record
  create    db/migrate/20121015044412_create_posts.rb
  create    app/models/post.rb
  invoke  test_unit
  create    test/unit/post_test.rb
  create    test/fixtures/posts.yml
  invoke  resource_route
    route    resources :posts
  invoke  scaffold_controller
  create    app/controllers/posts_controller.rb
  invoke  erb
  create    app/views/posts
  create    app/views/posts/index.html.erb
  create    app/views/posts/edit.html.erb
  create    app/views/posts/show.html.erb
  create    app/views/posts/new.html.erb
  create    app/views/posts/_form.html.erb
  invoke  test_unit
  create    test/functional/posts_controller_test.rb
  invoke  helper
  create    app/helpers/posts_helper.rb
  invoke  test_unit
  create    test/unit/helpers/posts_helper_test.rb
  invoke  assets
  invoke  coffee
  create    app/assets/javascripts/posts.js.coffee
  invoke  scss
  create    app/assets/stylesheets/posts.css.scss
  invoke  scss
  create    app/assets/stylesheets/scaffolds.css.scss
```

```
.. (up a dir)
/Users/rafaelmacedo/Development
+ app/
- config/
  + environments/
  + initializers/
  + locales/
    application.rb
    boot.rb
    database.yml
    environment.rb
    routes.rb
  + db/
  + doc/
  + lib/
  + log/
  + public/
  + script/
  + test/
  + vendor/
    config.ru
  Gemfile
  Gemfile.lock
  Rakefile
  README.rdoc
```

```
MyApp::Application.routes.draw do
  resources :posts
end
```

```
.. (up a dir)
/Users/rafaelmacedo/Development
+ app/
- config/
  + environments/
  + initializers/
  + locales/
    application.rb
    boot.rb
    database.yml
    environment.rb
    routes.rb
  + db/
  + doc/
  + lib/
  + log/
  + public/
  + script/
  + test/
  + vendor/
    config.ru
    Gemfile
    Gemfile.lock
    Rakefile
    README.rdoc
```

```
MyApp::Application.routes.draw do
  resources :posts
end
```

# rake routes

```
$ rake routes
```

posts	GET	/posts(.:format)	posts#index
	POST	/posts(.:format)	posts#create
new_post	GET	/posts/new(.:format)	posts#new
edit_post	GET	/posts/:id/edit(.:format)	posts#edit
post	GET	/posts/:id(.:format)	posts#show
	PUT	/posts/:id(.:format)	posts#update
	DELETE	/posts/:id(.:format)	posts#destroy

```
[rafaelmacedo] ~/Development/my-app using [ruby-1.9.3p194]
```

```
$ |
```

```
* Press ? for help
.. (up a dir)
<foelmacedo/Development/my-app/
+ app/
  + assets/
  + controllers/
  + helpers/
  + mailers/
  - models/
    post.rb
  + views/
+ config/
- db/
  - migrate/
    20121015044412_create_posts
    seeds.rb
+ doc/
+ lib/
+ log/
+ public/
+ script/
+ test/
+ vendor/
config.ru
Gemfile
Gemfile.lock
Rakefile
<foelmacedo/Development/my-app Development/my-app/db/migrate/20121015044412_create_posts.rb
```

```
1 class Post < ActiveRecord::Base
2   attr_accessible :body, :published_at, :title
3 end
```

```
Development/my-app/app/models/post.rb
1,3/3 All
```

```
class CreatePosts < ActiveRecord::Migration
  def change
    create_table :posts do |t|
      t.string :title
      t.text :body
      t.datetime :published_at
      t.timestamps
    end
  end
end
```

```
1,1/11 All
```

```
* Press ? for help
```

```
.. (up a dir)
```

```
<foelmacedo/Development/my-app/
```

```
+ app/
```

```
  + assets/
```

```
  + controllers/
```

```
  + helpers/
```

```
  + mailers/
```

```
  - models/
```

```
    post.rb
```

```
  + views/
```

```
  + config/
```

```
- db/
```

```
  - migrate/
```

```
    20121015044412_create_posts
```

```
  seeds.rb
```

```
+ doc/
```

```
+ lib/
```

```
+ log/
```

```
+ public/
```

```
+ script/
```

```
+ test/
```

```
+ vendor/
```

```
config.ru
```

```
Gemfile
```

```
Gemfile.lock
```

```
Rakefile
```

```
<foelmacedo/Development/my-app Development/my-app/db/migrate/20121015044412_create_posts.rb
```

```
1 class Post < ActiveRecord::Base  
2   attr_accessible :body, :published_at, :title  
3 end
```

```
Development/my-app/app/models/post.rb  
1,3/3 All  
1 class CreatePosts < ActiveRecord::Migration  
2   def change  
3     create_table :posts do |t|  
4       t.string :title  
5       t.text :body  
6       t.datetime :published_at  
7       t.timestamps  
8     end  
9   end  
10  end  
11 end
```

```
1,1/11 All
```

```
<foelmacedo/Development/my-app Development/my-app/db/migrate/20121015044412_create_posts.rb
```

```
" Press ? for help

.. (up a dir)
<foelmacedo/Development/my-app/
+ app/
  + assets/
  - controllers/
    application_controller.rb
    posts_controller.rb
  + helpers/
  + mailers/
  - models/
    post.rb
  - views/
    + layouts/
    - posts/
      _form.html.erb
      edit.html.erb
      index.html.erb
      new.html.erb
      show.html.erb
  + config/
  + db/
  + doc/
  + lib/
  + log/
  + public/
  + script/

```

```
<foelmacedo/Development/my-app Development/my-app/app/controllers/posts_controller.rb
```

```
1 class PostsController < ApplicationController
2   # GET /posts
3   # GET /posts.json
4   def index
5     @posts = Post.all
6
7     respond_to do |format|
8       format.html # index.html.erb
9       format.json { render json: @posts }
10    end
11  end
12
13  # GET /posts/1
14  # GET /posts/1.json
15  def show
16    @post = Post.find(params[:id])
17
18    respond_to do |format|
19      format.html # show.html.erb
20      format.json { render json: @post }
21    end
22  end
23
24  # GET /posts/new
25  # GET /posts/new.json
26  def new
27    @post = Post.new
28
```

1,1/83 Top

```
/Users/rafaelmacedo/Development/my-app/
└── app/
    ├── assets/
    ├── controllers/
    ├── helpers/
    ├── mailers/
    ├── models/
    └── views/
└── config/
    ├── environments/
    ├── initializers/
    ├── locales/
        ├── application.rb
        ├── boot.rb
        ├── database.yml
        ├── environment.rb
        └── routes.rb
└── db/
└── doc/
└── lib/
└── log/
└── public/
└── script/
└── test/
└── vendor/
    ├── config.ru
    └── Gemfile
    └── Gemfile.lock

```

/Users/rafaelmacedo/Development/my-app



# rails s



# rails s

```
/Users/rafaelmacedo/Development/my-app/
  - app/
    + assets/
    + controllers/
    + helpers/
    + mailers/
    + models/
    + views/
  - config/
    + environments/
    + initializers/
    + locales/
      application.rb
boot.ruby [rafaelmacedo] ~/Development/my-app using [ruby-1.9.3p194]
database $ rails s
environment => Booting WEBrick
routes => Rails 3.2.8 application starting in development on http://0.0.0.0:3000
+ db/           => Call with -d to detach
+ doc/          => Ctrl-C to shutdown server
+ lib/
+ log/          [2012-10-15 01:59:58] INFO  WEBrick 1.3.1
+ public/        [2012-10-15 01:59:58] INFO  ruby 1.9.3 (2012-04-20) [x86_64-darwin11.4.0]
+ script/        [2012-10-15 01:59:58] INFO  WEBrick::HTTPServer#start: pid=11530 port=3000
+ test/
+ vendor/
  config.ru
  Gemfile
  Gemfile.lock
/Users/rafaelmacedo/Development/my-app
```

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# Ajudas adicionais

## 1.1 · Got 15 minutes and want to learn Git?

Git allows groups of people to work on the same documents (often code) at the same time, and without stepping on each other's toes. It's a distributed version control system.

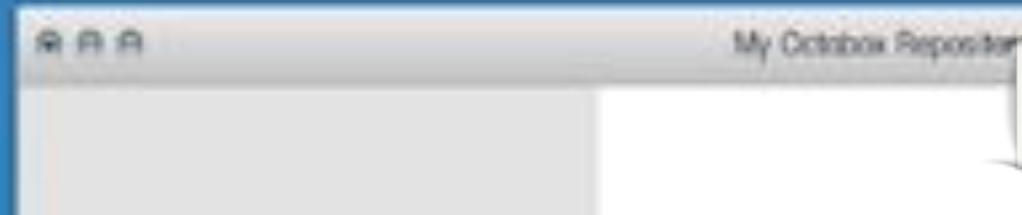
Our terminal prompt below is currently in an `ectebox` directory. To initialize a Git repository here, type the following command:

→ `git init`

tryGit



```
Press enter to submit commands
$
```



<http://try.github.com>

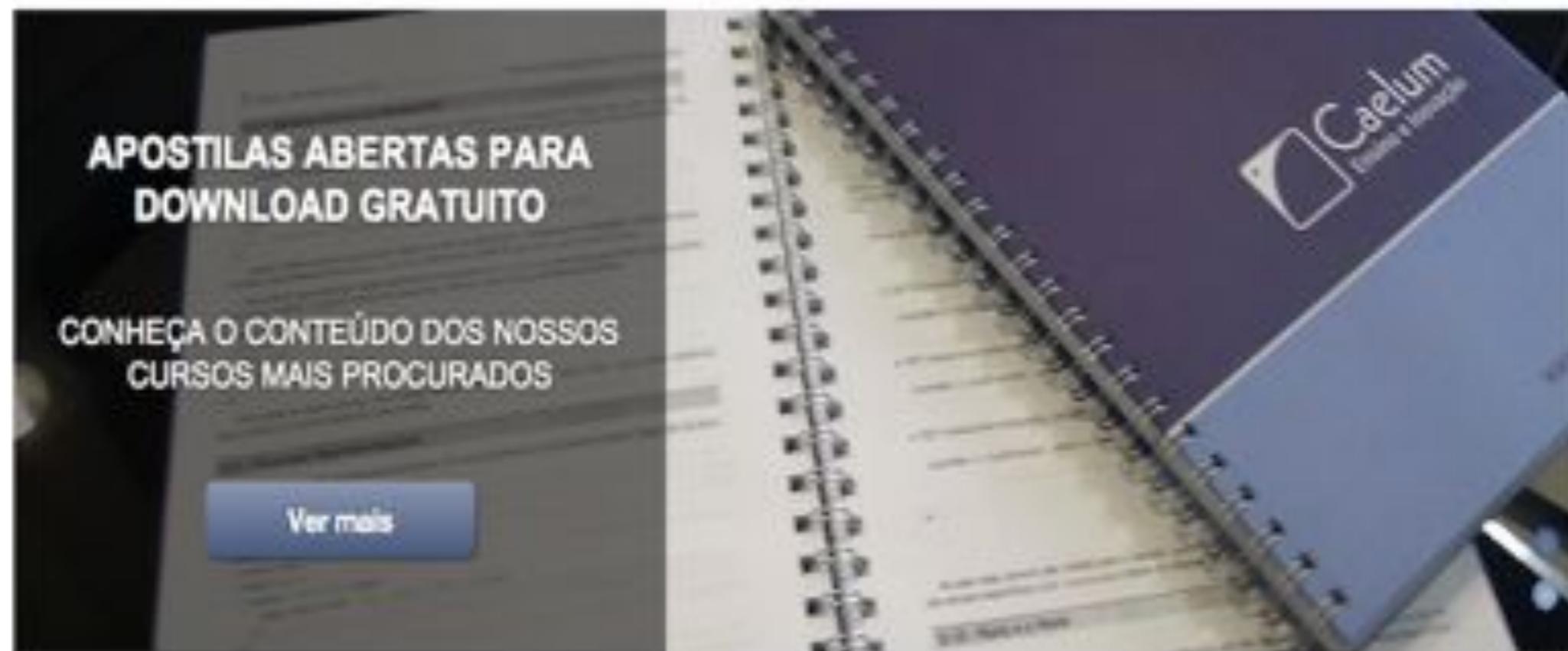


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**AUTHORIZATION  
FROM SCRATCH PART 2**

EPISODE #386 - Oct 11, 2012 ~ 11 comments

**Authorization from Scratch Part 2**

This finishes the series on building authorization from scratch by refactoring the permission logic into a DSL, restricting authorization with attributes, and combining with strong\_parameters to protect params. (20 minutes)

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FROM SCRATCH PART 1**

EPISODE #385 - Oct 07, 2012 ~ 25 comments

**Authorization from Scratch Part 1**

Authorization can be difficult to implement and test because it often involves complex logic that exists throughout the entire app. Here I demonstrate how to test and implement authorization from scratch. (15 minutes)

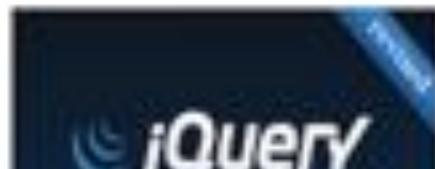
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[Active Record](#)[Active Resource](#)[Active Support](#)[Administration](#)[Ajax](#)[APIs](#)[Authentication](#)[Authorization](#)[Background Jobs](#)[Caching](#)[Controllers](#)[Debugging](#)[Deployment](#)**Exploring RubyGems**

EPISODE #384 - Oct 07, 2012 ~ 8 comments

RubyGems can make it easy to add a feature to a Rails application, but it can also cause headaches down the road. Here I give some tips on researching gems to decide which one to choose, or when to do it from scratch. (7 minutes)

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EPISODE #136 - Sep 29, 2012 ~

**jQuery & Ajax (revised)**

Here I go back to the basics and

<http://railscasts.com>

## Começando com Ruby on Rails

Começar com desenvolvimento nem sempre é fácil. Afinal, existe tanta coisa para aprender. Conheça alguns assuntos essenciais que todo desenvolvedor web precisa conhecer como HTTP, DNS e muito mais, além de dar os primeiros passos com Rails!

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## Começando com Ruby on Rails

## Quem participou, gostou!

Os workshops do HOWTO possuem versões online e presencial. Nas workshops online, são usados recursos de chat e streaming de áudio e vídeo, com aulas gravadas para que você possa assistir sempre que quiser. Nos workshops presenciais, você fará parte de uma turma de até 10 alunos, em um ambiente legal, com café e guloseimas à vontade! Mais de 100 pessoas já participaram dos workshops e a aprovação foi unânime! E se você não estiver satisfeito, pode pedir o reembolso a qualquer momento. Nem iremos perguntar o motivo!

 O curso de metaprogramming do #howtocode está excelente. O @fnando domina muito o assunto, é ótimo instrutor. O material é bala tb!

 marcelocg

 Mais uma participação de Workshop da #howtocode com @fnando, tá de parabéns. Conhece sobre o que fala e curto a didática dele +1 fá.

 adimircolel

 Segunda aula de #howtocode sobre Rspec do @fnando, simplesmente #sensacional, o cara ensinando todas as dicas que você não encontra por ai :)

 diegovr

 Acompanhar a implementação e a explicação ao mesmo tempo nos dá a sensação de Pair Programming durante o #howtocode. Ótimo curso!

 Sina

<http://howtocode.com.br>



# 10 dicas para o sucesso



1. Faça apenas uma  
tarefa por vez



2. Conheça o  
problema



# 3. Aprenda a ouvir



# 4. Faça perguntas



# 6. Aceite mudanças



7. Admita seus erros



8. Mantenha as  
coisas simples



9. Mantenha calma



# 10. Sorria



# 10. Sorria





# OBRIGADO!!!



<https://speakerdeck.com/u/rafaelmacedo>