

Starting a Rails Application

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What is Rails?



open source web application framework

http://guides.rubyonrails.org/getting_started.html
<https://github.com/rails/rails>



runs on
ruby

rails vs. ruby?

"*Ruby* is the basic language, whereas *Rails* is a genre of form that the language can take, like a thriller.

If you want to write a love story, then you probably use another framework or something else entirely."

- DHH

Background

David Heinemeier Hansson

a.k.a. "DHH"



Background

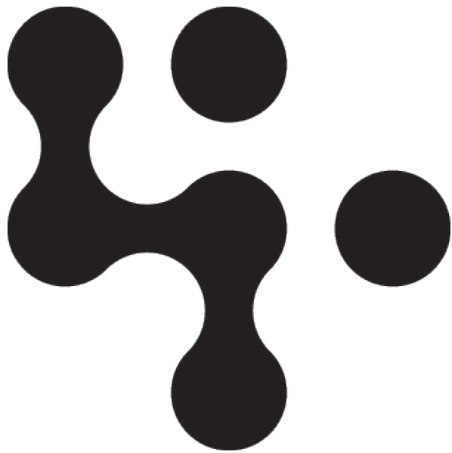
David Heinemeier Hansson

2004

Background

David Heinemeier Hansson

2004



37signals

What Rails does

serves web pages

What Rails does

serves web pages

can query the database

What Rails does

serves web pages

can query the database

gather information from server

Rails in a Nutshell

Convention over Configuration

Don't Repeat Yourself (DRY)

Model-View-Controller (MVC)

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Structure of the Rails App

```
my_first_rails_app/  
  /app  
    /assets  
    /controller  
    /helpers  
    /mailers  
    /models  
    /views  
    /layouts  
  /config  
    /environments  
    /initializers  
    /locales  
  /db  
  /doc  
  /lib  
  /log  
  /public  
    index.html  
  /script  
  /test  
  /tmp  
  /vendor  
  .gitignore  
  Gemfile  
  Rakefile  
  README
```

running :

ruby 1.9.3p194& rails 3.2.12

example?

default rendering

```
class MuffinsController < ApplicationController  
end
```


example?

default rendering

```
class MuffinsController < ApplicationController  
end
```

```
resources :muffins
```

example?

default rendering

```
class MuffinsController < ApplicationController  
end
```

```
resources :muffins
```

```
<h1>Muffins are awesome!</h1>
```

example?

default rendering

Rails will automatically render

`app/views/muffins/index.html.erb`

when you navigate to `/muffins`

and you will see

"Muffins are awesome!" on your screen.

Rails in a Nutshell

Convention over Configuration

Don't Repeat Yourself (DRY)

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What DRY is *not*

"Most people take DRY to mean you shouldn't duplicate code.

That's not its intention.

The idea behind DRY is far grander than that."

- Andy Hunt & Dave Thomas

What DRY *is*

"Every piece of system knowledge should have one authoritative, unambiguous representation."

"... a system's knowledge is far broader than just its code."

It refers to database schemas, test plans, the build system, even documentation."

- Andy Hunt & Dave Thomas

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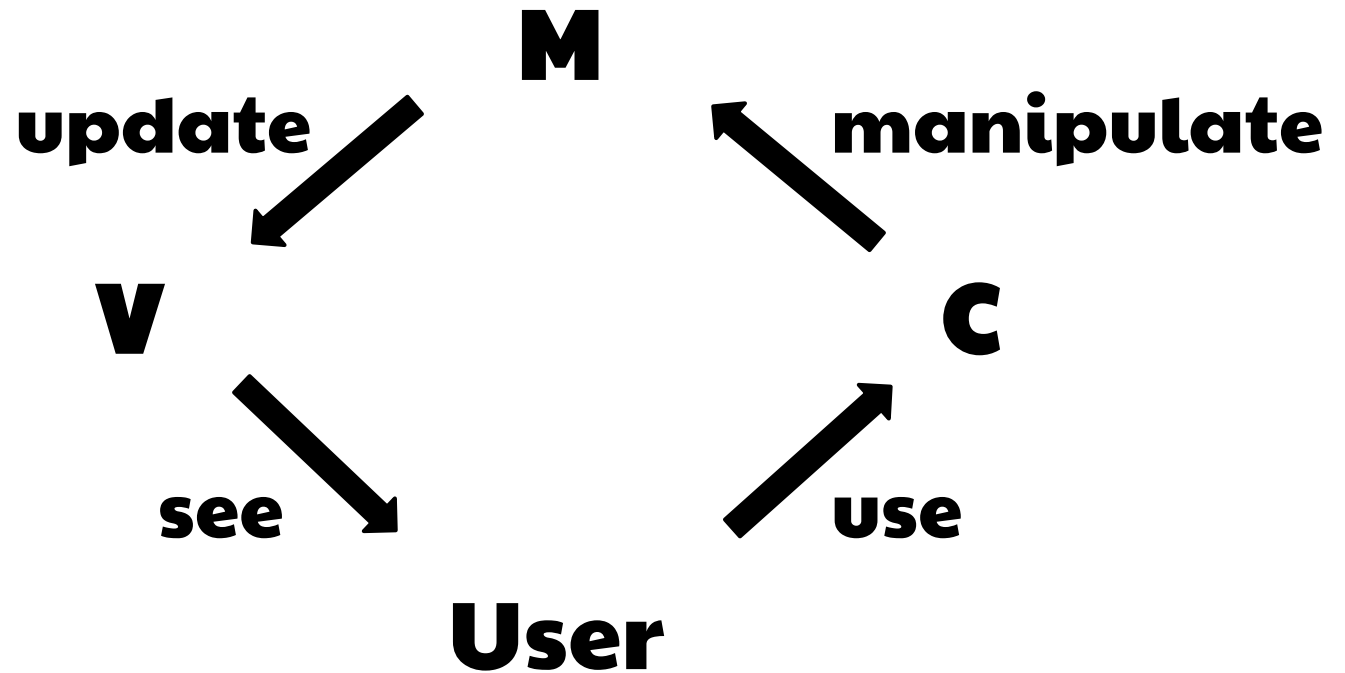
```
my_first_rails_app/
```

```
/app
```

```
/models
```

```
/controller
```

```
/views
```




```
my_first_rails_app/  
  /app  
    /assets  
    /controller  
    /helpers  
    /mailers  
    /models  
    /views  
    /layouts  
  /config  
    /environments  
    /initializers  
    /locales  
  /db  
  /doc  
  /lib  
  /log  
  /public  
    index.html  
  /script  
  /test  
  /tmp  
  /vendor  
  .gitignore  
  Gemfile  
  Rakefile  
  README
```

your first page





Welcome aboard

You're riding Ruby on Rails!

[About your application's environment](#)

Getting started

Here's how to get rolling:

1. Use `rails generate` to create your models and controllers

To see all available options, run it without parameters.

2. 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 using SQLite (the default), edit *config/database.yml* with your username and password.

Browse the documentation

[Rails Guides](#)

[Rails API](#)

[Ruby core](#)

[Ruby standard library](#)

What We're Doing Today

- 1) **Generate**
 - scaffolding

What We're Doing Today

1) Generate

- scaffolding

2) Track changes

- familiarize with git

What We're Doing Today

1) Generate

- scaffolding

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3) Run

- familiarize with localhost

What We're Doing Today

1) Generate

- scaffolding

2) Track changes

- familiarize with git

3) Run

- familiarize with localhost

4) Deploy

- share your application on the web!

What We're Doing Today

-> Every single one of you
will have deployed a rails app
by the end of the day!



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will have deployed a rails app
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Any Questions?

Let's Get Started!