

Ruby on Rails

- MVC (SoC)
- Estructura general
 - ActionCable
 - ActionMailer
 - ActionPack
 - ActionView
 - ActiveJob
 - ActiveRecord
 - ActiveSupport
- Sprockets

Ejemplo: instalando rails

```
$ gem install rails
```

Ejemplo: creando un proyecto Rails

```
$ rails new -h
Usage:
  rails new APP_PATH [options]

Options:
  -r, [--ruby=PATH]                  # Path to the Ruby binary
                                     # Default: /Users/ncuesta
                                     # Path to some applicatio
  -m, [--template=TEMPLATE]          # Preconfigure for select
                                     # Default: jquery
                                     # Don't create a Gemfile
                                     # Don't run bundle instal
  -d, [--database=DATABASE]          # Preconfigure for select
                                     # Default: sqlite3
                                     # Don't run bundle instal
  -j, [--javascript=JAVASCRIPT]      # Preconfigure for select
                                     # Default: jquery
                                     # Don't create a Gemfile
                                     # Don't run bundle instal
  --skip-gemfile, [--no-skip-gemfile]
  -B, [--skip-bundle], [--no-skip-bundle]
  1
```

```

-G, [--skip-git], [--no-skip-git]           # Skip .gitignore file
      [--skip-keeps], [--no-skip-keeps]      # Skip source control .keep files
-M, [--skip-action-mailer], [--no-skip-action-mailer] # Skip Action Mailer files
-O, [--skip-active-record], [--no-skip-active-record] # Skip Active Record files
-P, [--skip-puma], [--no-skip-puma]          # Skip Puma related files
-C, [--skip-action-cable], [--no-skip-action-cable] # Skip Action Cable files
-S, [--skip-sprockets], [--no-skip-sprockets] # Skip Sprockets files
      [--skip-spring], [--no-skip-spring]     # Don't install Spring application preloader
      [--skip-listen], [--no-skip-listen]     # Don't generate configuration that depends on the listen gem
-J, [--skip-javascript], [--no-skip-javascript] # Skip JavaScript files
      [--skip-turbolinks], [--no-skip-turbolinks] # Skip turbolinks gem
-T, [--skip-test], [--no-skip-test]           # Skip test files
      [--dev], [--no-dev]                     # Setup the application with Gemfile pointing to your Rails checkout
      [--edge], [--no-edge]                   # Setup the application with Gemfile pointing to Rails repository
      [--rc=RC]                               # Path to file containing extra configuration options for rails command
      [--no-rc], [--no-no-rc]                 # Skip loading of extra configuration options from .railsrc file
      [--api], [--no-api]                     # Preconfigure smaller stack for API only apps

```

Runtime options:

```

-f, [--force]           # Overwrite files that already exist
-p, [--pretend], [--no-pretend] # Run but do not make any changes
-q, [--quiet], [--no-quiet]   # Suppress status output
-s, [--skip], [--no-skip]     # Skip files that already exist

```

Rails options:

```

-h, [--help], [--no-help]       # Show this help message and quit
-v, [--version], [--no-version] # Show Rails version number and quit

```

Description:

The 'rails new' command creates a new Rails application with a default directory structure and configuration at the path you specify.

You can specify extra command-line arguments to be used every time

'rails new' runs in the .railsrc configuration file in your home directory.

Note that the arguments specified in the .railsrc file don't affect the defaults values shown above in this help message.

Example:

```
rails new ~/Code/Ruby/weblog
```

This generates a skeletal Rails installation in ~/Code/Ruby/weblog.

```
$ rails new pets --database=mysql --skip-test-unit --skip-action-mailer --skip-action-cable
```

Luego:

- Limpieza de gemas innecesarias
- Configuración básica
- Iniciar server en modo desarrollo
- Corregir
- Cargar `/`
- Agregar gemas para el proyecto:

```
# http://v4-alpha.getbootstrap.com/  
# https://github.com/twbs/bootstrap-rubygem#installation  
gem 'bootstrap', '~> 4.0.0.alpha5'  
# https://github.com/plataformatec/simple_form#installation  
gem 'simple_form', '~> 3.3'
```

Primer modelo:

```
$ bundle exec rails generate scaffold breed name:string
invoke  active_record
create  db/migrate/20161117183812_create_breeds.rb
create  app/models/breed.rb
invoke  resource_route
route   resources :breeds
invoke  scaffold_controller
create  app/controllers/breeds_controller.rb
invoke  erb
create  app/views/breeds
create  app/views/breeds/index.html.erb
create  app/views/breeds/edit.html.erb
create  app/views/breeds/show.html.erb
create  app/views/breeds/new.html.erb
create  app/views/breeds/_form.html.erb
invoke  helper
create  app/helpers/breeds_helper.rb
invoke  assets
invoke  js
create  app/assets/javascripts/breeds.js
invoke  scss
create  app/assets/stylesheets/breeds.scss
invoke  scss
create  app/assets/stylesheets/scaffolds.scss
```

- Personalizar:
 - `#to_s`
 - validations
- Agregar datos a `db/seeds.rb` :

```
Breed.create! [
  { name: 'Dog' },
  { name: 'Cat' },
  { name: 'Fish' },
  { name: 'Bird' },
]
```

Segundo modelo:

```
$ bundle exec rails g scaffold pet breed:belongs_to name:string
```

- Personalizar:
 - `#to_s`
 - validations
- Routing: configurar `root` :

```
root to: 'pets#index'
```

- Agregar datos a `db/seeds.rb` :

```
Pet.create! [  
  { name: 'Pluto', breed: Breed.find_by(name: 'Dog') },  
  { name: 'Tom', breed: Breed.find_by(name: 'Cat') },  
  { name: 'Nemo', breed: Breed.find_by(name: 'Fish') },  
  { name: 'Dory', breed: Breed.find_by(name: 'Fish') },  
  { name: 'Tweety', breed: Breed.find_by(name: 'Bird') },  
]
```

- Modificar vistas:

- Personalizar layout, agregar `.container` y menú de navegación al layout
(`app/views/layouts/application.html.erb`):

```
<!DOCTYPE html>  
<html>  
  <head>  
    <title>PetsApp</title>  
    <%= csrf_meta_tags %>  
  
    <%= stylesheet_link_tag 'application', media: 'all', 'data-turbolinks-track': 'reload' %>  
    <%= javascript_include_tag 'application', 'data-turbolinks-track': 'reload' %>  
  </head>  
  
  <body>  
    <%= render 'navigation' %>  
  
    <div class="container">  
      <%= yield %>  
    </div>  
  </body>  
</html>
```

- Crear partial para navegación (`app/views/application/_navigation.erb`):

```
<nav class="navbar navbar-light bg-faded">
  <a href="#" class="navbar-brand">PetsApp</a>
  <div class="nav navbar-nav">
    <%= link_to 'Pets', pets_path, class: 'nav-item nav-link' -%>
    <%= link_to 'Breeds', breeds_path, class: 'nav-item nav-link' -%>
  </div>
</nav>
```

- Incluir en `PetsController#index` links a `BreedsController#show`
- Incluir cantidad de mascotas para cada raza en `BreedsController#index`
- Personalizar tablas y botones con BS