HACKER SCHOOL
MONTERREY

Rails101

Mayra Cabrera

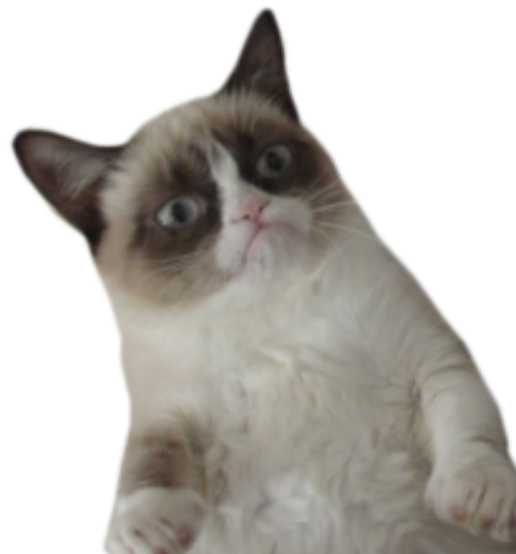
About me

Software engineer at Icalia Labs

I ♡ Programming

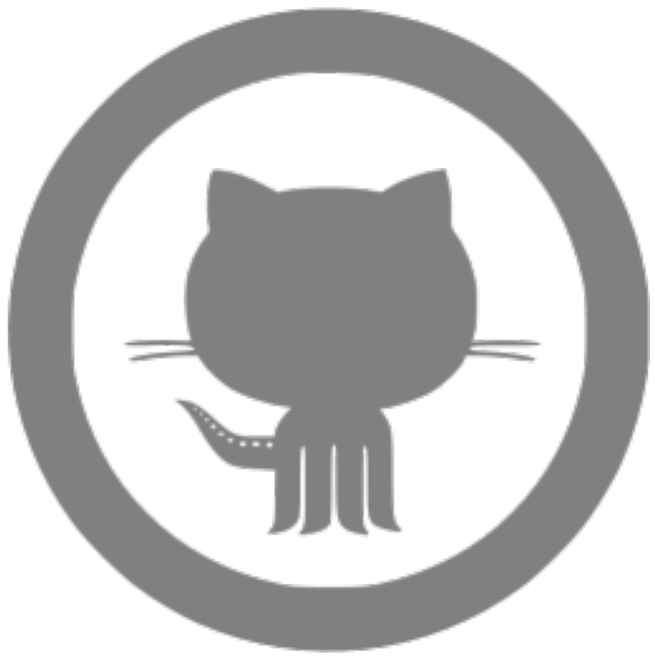
I ♡ Rails

Series, movies, books & cats



About you?

About this class



https://github.com/hackerschoolmty/Rails101

Topics

1. **Introduction to Rails**
   - Why Rails
   - Philosophy
   - MVC architecture
   - RESTful architecture

2. **Getting started with Rails**
   - Basic commands
   - Structure of rails app
   - ActiveRecord
   - Controllers
   - Views

3. **Basic routing**

4. **User management**

5. **Debugging**

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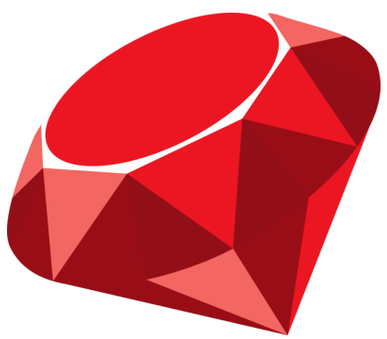
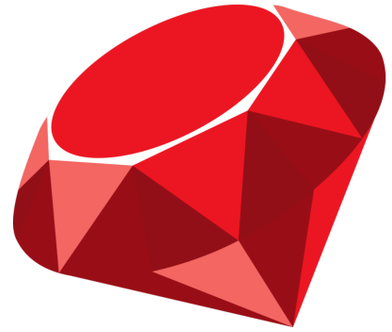
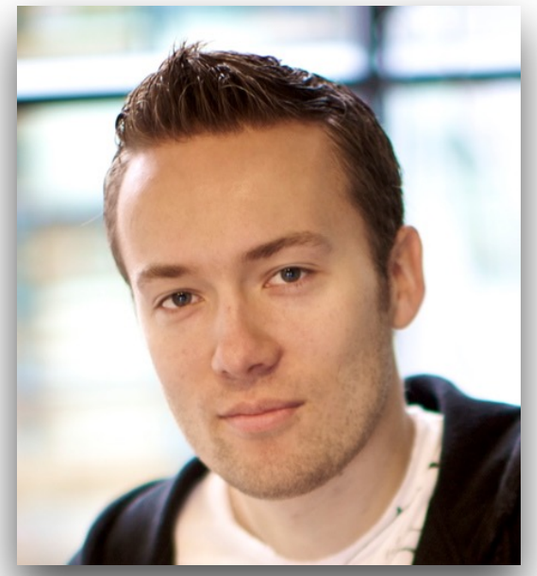
Introduction to Rails



What is Rails?

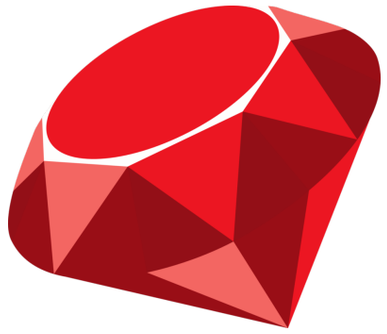


Web application development framework written in Ruby



Created in 2004 by DHH (*David Heinemer Hansson*)

What is Rails?

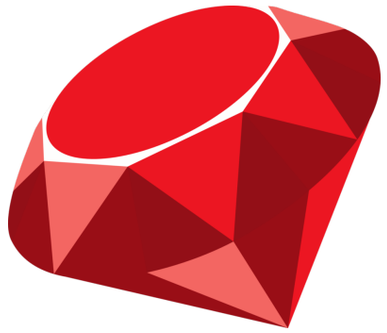


Open source: https://github.com/rails/rails

+ 3,000 contributors / + 58,000 commits

http://rubyonrails.org

Who uses Rails?

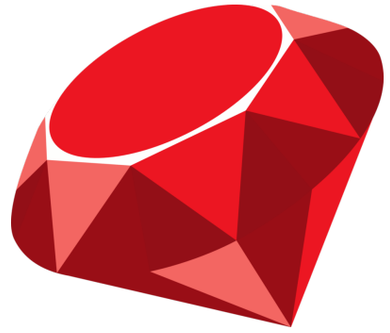


Basecamp

hulu

Source: http://rubyonrails.org

Why Rails?



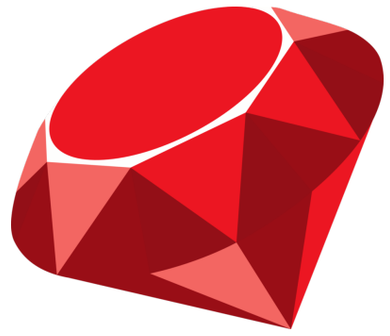
Community: A lot of nice people

A lot of gems

Nice documentation

The rails way: It just feels right

Philosophy



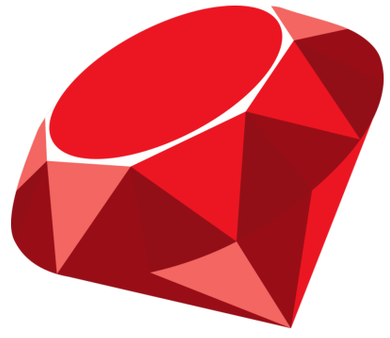
Optimize for programmer happiness

Ruby is natural

It behaves how you'd expect it to

Source: The Rails Doctrine - http://rubyonrails.org/doctrine

Philosophy



Optimize for programmer happiness

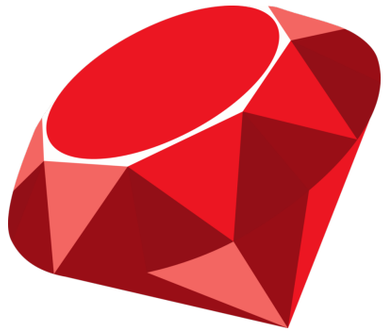
```
$ irb
$ irb(main):001:0> exit

$ irb
$ irb(main):001:0> quit
```

```
>>> exit
Use exit() or Ctrl-D (i.e. EOF) to exit
```


Source: The Rails Doctrine - http://rubyonrails.org/doctrine

Philosophy

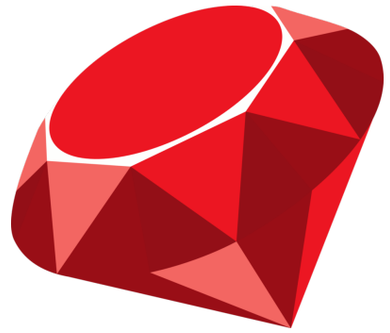


Exalts beautiful code

```
class Project < ActiveRecord::Base
  belongs_to :portfolio
  has_one :project_manager
  has_many :milestones
  has_many :deliverables, through: milestones

  validates :name, :description, presence: true
  validates :non_disclosure_agreement, acceptance: true
  validates :short_name, uniqueness: true
end
```

Philosophy

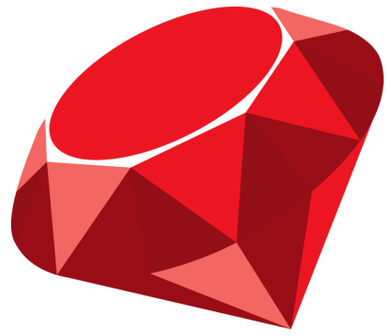


Exalts beautiful code

```
class CreateProducts < ActiveRecord::Migration
  def change
    create_table :products do |t|
      t.string :name
      t.text :description

      t.timestamps
    end
  end
end
```

Philosophy



Convention over configuration

Rails has sensible defaults for just about every aspect of knitting together your application

If you need to override the conventions Rails makes that easy, too

Source: The Rails Doctrine - http://rubyonrails.org/doctrine

How rails works?

MVC Architecture

Model-**V**iew-**C**ontroller

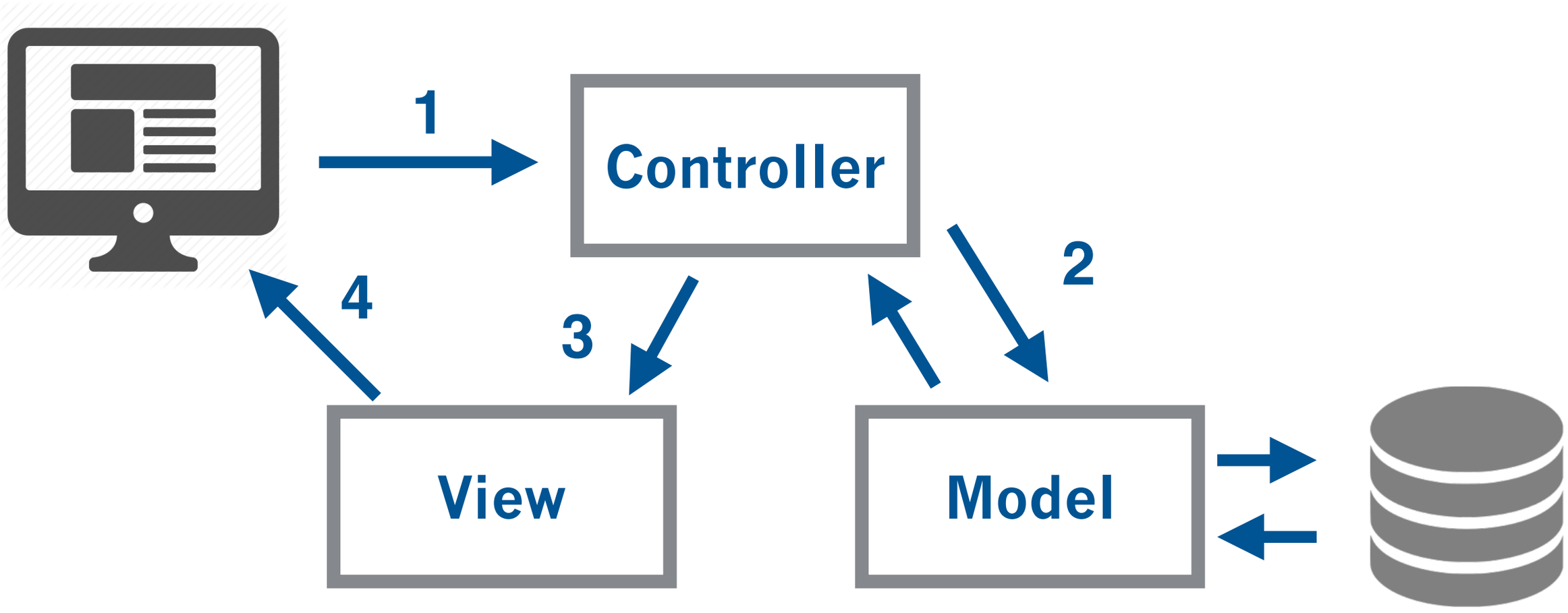
Model: It handles data and business logic

View: Responsible for generating a user interface

Controller: Orchestrate the application

MVC Architecture

Model-**V**iew-**C**ontroller



Restful Architecture

REpresentation **S**tate **T**ransfer"

¿SOAP? …. Hell no!

Restful Architecture

The idea is to use HTTP to make calls between machines

Created by Roy Fielding in his doctoral dissertation

Platform & Language independent

Restful Architecture

Use HTTP requests for all CRUD operations

GET, POST, PUT, DELETE

Restful Architecture

Students

```
GET /students
```

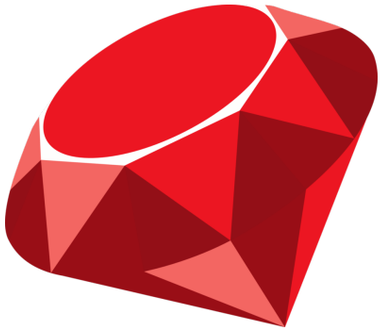
```
GET /students/1
```

```
POST /students
```

```
PUT /students/8
```

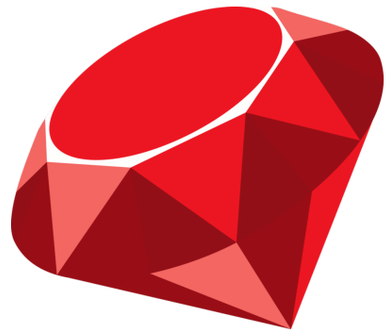
```
DELETE /students/10
```

You're free!



Let’s create some apps!

Rails setup



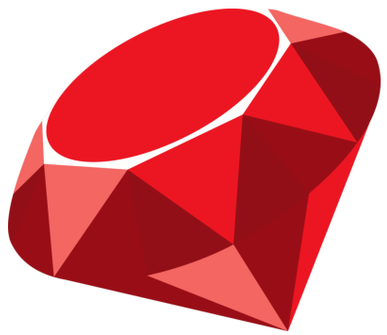
```
$ ruby -v
ruby 2.2.1p85

$ rails -v
Rails 4.2.5
```

Ejercicios

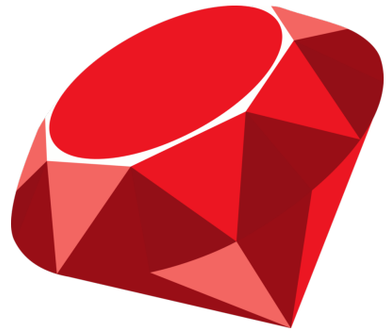
https://github.com/hackerschoolmty/Rails101/blob/master/01/exercises.md

Rails commands



- rails new
- rails server
- rails console
- rails dbconsole
- rake
- bundle commands

Gracias! :)



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