Ruby on Rails



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Ruby é ...

dinâmica, open source com foco na simplicidade e na produtividade.

Os ideais do criador

- Yukihiro Matsumoto "matz"
- "trying to make Ruby natural, not simple,"
 - Satisfação do desenvolvedor



Em Ruby Tudo é um objeto

```
5.times {
print "Tudo é objeto"
}
```

Em Ruby Tudo é extensível

```
class Numeric
  def plus(x)
    self.+(x)
  end
end

y = 5.plus 6
```

y é agora igual a 11

Em Ruby Blocos aumentam flexibilidade

```
search_engines =
    %w[Google Yahoo MSN].map do lenginel
        "http://www." + engine.downcase + ".com"
end
```

Em Ruby Blocos aumentam flexibilidade

Em Ruby Módulos resolvem herança multipla

```
module Helloworld
  def say
    puts "Hello world"
  end
end

class Mixin
  include Helloworld
end
```

Aprenda Ruby em

- http://www.ruby-lang.org/en/
- http://tryruby.hobix.com/
- http://www.ruby-lang.org/en/documentation/ quickstart/

Rails é ...

"framework web open-source voltado para a felicidade do programador e produtividade sustentável."

Rails Extende o Ruby através de Domain Specific Language S

Rails é REST

```
ActionController::Routing::Routes.draw do |map| map.resources :person end
```

Rails é REST

```
POST /people
GET /people/1
PUT /people/1
DELETE /people/1
```

Rails é REST + CRUD

GET	POST	PUT	DELETE
find	create	update	destroy
SELECT	INSERT	UPDATE	DELETE

```
class Project < ActiveRecord::Base
  belongs_to :account
  has_many :milestones
  has_one :project_manager, :class_name => "Person", :foreign_key => "project_manager_id"
end

class Milestone < ActiveRecord::Base
  belongs_to :project
  has_many :todos
end</pre>
```

Convention + REST

```
class PostsController < ApplicationController</pre>
  # GET /posts
  # GET /posts.xml
  def index end
  # GET /posts/1
  # GET /posts/1.xml
  def show end
  # GET /posts/1/edit
  def edit end
 # POST /posts
  # POST /posts.xml
  def create end
  # PUT /posts/1
  # PUT /posts/1.xml
  def update end
  # DELETE /posts/1
  # DELETE /posts/1.xml
  def destroy end
end
```

Rails é Don't Repeat Yourself + Model View Control

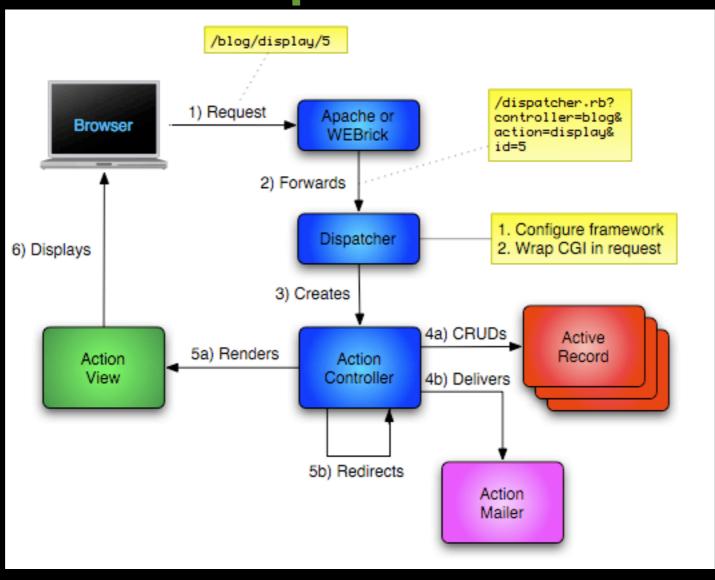
```
$ ./script/generate scaffold Post title:string body:text
      exists app/models/
      exists app/controllers/
      exists app/helpers/
      create app/views/posts
      exists test/functional/
      exists test/unit/
      create app/views/posts/index.html.erb
      create app/views/posts/show.html.erb
      create app/views/posts/new.html.erb
      create app/views/posts/edit.html.erb
      create app/controllers/posts_controller.rb
      create test/functional/posts_controller_test.rb
      create app/helpers/posts_helper.rb
      create test/unit/helpers/posts_helper_test.rb
      route
             map.resources :posts
      exists
               test/unit/
               app/models/post.rb
      create
               test/unit/post_test.rb
      create
               test/fixtures/posts.yml
      create
               db/migrate
      exists
                db/migrate/20090504220328_create_posts.rb
      create
```

Rails tem Query Cache

```
User Load (0.000392)
                      SELECT * FROM users WHERE (users. id = 1)
                        SELECT * FROM parties WHERE (parties. 'id' = 2) AND ( (parties. 'type' = 'Person' )
Person Load (0.000311)
Rendered recordings/_attachments (0.00053)
Rendered emails/_email (0.00678)
Rendered recordings/_show (0.01401)
  CACHE (0.000000) SELECT * FROM kases WHERE (kases.'id' = 9)
  Party Load (0.000407) SELECT * FROM parties WHERE (parties. id = 2)
  CACHE (0.000000) SELECT * FROM users WHERE (users. id = 1)
  CACHE (0.000000) SELECT * FROM parties WHERE (parties. id = 2) AND ( (parties. type = 'Person' ) )
 Rendered task_recordings/_task_recording (0.00096)
 Rendered recordings/_show (0.00360)
   CACHE (0.000000) SELECT * FROM users WHERE (users. id = 1)
   CACHE (0.000000) SELECT * FROM parties WHERE (parties. 'id' = 2) AND ( (parties. 'type' = 'Person' ) )
```

```
ActiveRecord::Base.cache do
# SELECTs are cached until an INSERT, UPDATE, or DELETE happen
end
```

Rails tem Simplicidade



Action Controller Core das requisições web no Rails

```
class GuestBookController < ActionController::Base
  def index
    @entries = Entry.find(:all)
  end

def sign
    Entry.create(params[:entry])
    redirect_to :action => "index"
  end
end
```

Action View Embedded RuBy - Ruby Templating

ActiveRecord

Object Relational Mapping Pattern

"An object that wraps a row in a database table or view, encapsulates the database access, and adds domain logic on that data." Martin Fowler

class Post < ActiveRecord::Base
end</pre>

Refaça seu projeto em Rails!

