

Curso de Ruby on Rails – Aulas 1 a 19

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<https://www.youtube.com/watch?v=ZHPondVB9RQ&list=PLe3LRfCs4go-mkvHRMSXEOG-HDbzesyaP>

Resumo do curso feito por Roberto Pinheiro

Instalando o Ruby e o Rails

- Instale o Ruby v. 2.5.1.2 com msys2 64bit e Rails v. 5.2.1
- Baixar o Ruby em:

<https://rubyinstaller.org/downloads/archives/>

ruby -v

```
C:\Users\pinhe>ruby -v
ruby 2.5.1p57 (2018-03-29 revision 63029) [x64-mingw32]
```

gem -v

```
C:\Users\pinhe>gem -v
2.7.6
```

gem install rails -v 5.2.1

rails -v

```
C:\Users\pinhe>rails -v
Rails 5.2.1
```

Aula 05 – Documentação Ruby, IRB e Pry

Documentação

Documentação oficial

<https://ruby-doc.org/>

Documentação paralela colaborativa

<https://apidock.com/ruby>

Onde aprender?

<http://tryruby.org>

<https://www.jmonteiro.com/aprendaaprogramar/>

Como interpretar um arquivo Ruby?

app/examples/teste.rb

```
puts "Hello!"  
puts "Olá!"
```

```
C:\Sites\exemplos\app\examples>ruby teste.rb  
Hello!  
Olá!
```

irb (Interactive Ruby Shell)

O irb interpreta código Ruby.

```
C:\Sites\exemplos>irb
irb(main):001:0> puts "Hello!"
Hello!
=> nil
irb(main):002:0> puts "Olá!"
Olá!
=> nil
```

Pry

É uma alternativa ao irb.

Para instalar, entre no terminal com o comando:

`gem install pry`

```
C:\Sites\exemplos>gem install pry
Successfully installed pry-0.12.2
Parsing documentation for pry-0.12.2
Done installing documentation for pry after 6 seconds
1 gem installed
```

`gem install pry-require_relative`

```
C:\Sites\exemplos>gem install pry-require_relative
Successfully installed pry-require_relative-0.0.2
Parsing documentation for pry-require_relative-0.0.2
Done installing documentation for pry-require_relative after 1 seconds
1 gem installed
```

```
[1] pry(main)> a = 1
=> 1
[2] pry(main)> b = 2
=> 2
[3] pry(main)> if a < b
[3] pry(main)*   puts "Hello!"
[3] pry(main)* end
Hello!
=> nil
```

```

[4] pry(main)> while a < 10
[4] pry(main)*   puts a
[4] pry(main)*   a += 1
[4] pry(main)* end
1
2
3
4
5
6
7
8
9
=> nil

```

Listando as gems

gem list

```
C:\Sites\exemplos>gem list
```

```
*** LOCAL GEMS ***
```

```

actioncable (5.2.3, 5.2.1)
actionmailer (5.2.3, 5.2.1)
actionpack (5.2.3, 5.2.1)
actionview (5.2.3, 5.2.1)
activejob (5.2.3, 5.2.1)
activemodel (5.2.3, 5.2.1)
activerecord (5.2.3, 5.2.1)
activestorage (5.2.3, 5.2.1)
activesupport (5.2.3, 5.2.1)
addressable (2.7.0)
archive-zip (0.12.0)
arel (9.0.0)
autoprefixer-rails (9.6.4)
bigdecimal (default: 1.3.4)
bindindex (0.8.1)
bootsnap (1.4.5)
bootstrap-sass (3.4.1)
builder (3.2.3)
bundler (2.0.2)
byebug (11.0.1)
capybara (3.29.0)
childprocess (3.0.0)
chromedriver-helper (2.1.1)
chunky_png (1.3.11)

```

```

cmath (default: 1.0.0)
coderay (1.1.2)
coffee-rails (4.2.2)
coffee-script (2.4.1)
coffee-script-source (1.12.2)
compass (1.0.3, 0.12.2)
compass-core (1.0.3)
compass-import-once (1.0.5)
compass-rails (3.0.2, 2.0.0)
concurrent-ruby (1.1.5)
crass (1.0.4)
csv (default: 1.0.0)
date (default: 1.0.0)
dbm (default: 1.0.0)
did_you_mean (1.2.0)
duktape (2.3.0.0)
erubi (1.9.0)
etc (default: 1.0.0)
execjs (2.7.0)
fcntl (default: 1.0.0)
ffi (1.11.1 x64-mingw32)
fiddle (default: 1.0.0)
fileutils (default: 1.0.2)
fssm (0.2.10)
gdbm (default: 2.0.0)
globalid (0.4.2)
i18n (1.7.0)
io-console (default: 0.4.6)

```

```
io-like (0.3.0)
ipaddr (default: 1.2.0)
jbuilder (2.9.1)
jquery (0.0.1)
jquery-rails (4.3.5, 4.3.1)
json (default: 2.1.0)
loofah (2.3.0)
mail (2.7.1)
marcel (0.3.3)
method_source (0.9.2)
mimemagic (0.3.3)
mini_mime (1.0.2)
mini_portile2 (2.4.0)
minitest (5.12.2, 5.10.3)
msgpack (1.3.1 x64-mingw32)
multi_json (1.13.1)
mysql2 (0.5.2 x64-mingw32)
net-telnet (0.1.1)
nio4r (2.5.2)
nokogiri (1.10.4 x64-mingw32)
openssl (default: 2.1.0)
power_assert (1.1.1)
pry (0.12.2, 0.9.12.6)
pry-require_relative (0.0.2)
psych (default: 3.0.2)
public_suffix (4.0.1)
puma (3.12.1)
rack (2.0.7)
```

```
rack-test (1.1.0)
rails (5.2.3, 5.2.1)
rails-dom-testing (2.0.3)
rails-html-sanitizer (1.3.0)
rails_12factor (0.0.3)
rails_serve_static_assets (0.0.5)
rails_stdout_logging (0.0.5)
railties (5.2.3, 5.2.1)
rake (13.0.0, 12.3.0)
rb-fsevent (0.10.3)
rb-inotify (0.10.0)
rdoc (default: 6.0.1)
regexp_parser (1.6.0)
rubyzip (2.0.0)
sass (3.7.4, 3.4.25)
sass-listen (4.0.0)
sass-rails (5.1.0, 5.0.8)
sassc (2.2.1 x64-mingw32)
scanf (default: 1.0.0)
sdbm (default: 1.0.0)
selenium-webdriver (3.142.6)
slop (3.6.0)
sprockets (3.7.2)
sprockets-rails (3.2.1)
stringio (default: 0.0.1)
strscan (default: 1.0.0)
test-unit (3.2.7)
thor (0.20.3)
```

```
thread_safe (0.3.6)
tilt (2.0.10)
turbolinks (5.2.1)
turbolinks-source (5.2.0)
tzinfo (1.2.5)
tzinfo-data (1.2019.3)
uglifier (4.2.0)
web-console (3.7.0)
webrick (default: 1.4.2)
websocket-driver (0.7.1)
websocket-extensions (0.1.4)
xmlrpc (0.3.0)
xpath (3.2.0)
zlib (default: 1.0.0)
```

Aula 06 - Array, Hash, Métodos, Parâmetros e Blocos

Array

"Array é uma coleção ordenada de qualquer objeto indexado por um inteiro. Cada elemento de um array é associado e referenciado por índice."

[]

```
[1] pry(main)> a = []  
=> []  
[2] pry(main)> a.push(85)  
=> [85]  
[3] pry(main)> a.push(777)  
=> [85, 777]  
[4] pry(main)> a.push("Ruby")  
=> [85, 777, "Ruby"]  
[5] pry(main)>
```

.new

```
[5] pry(main)> b = Array.new  
=> []  
[6] pry(main)> b.push(58)  
=> [58]  
[7] pry(main)> b.push("Rails")  
=> [58, "Rails"]
```

%w

```
[8] pry(main)> %w(curso de ruby on rails)  
=> ["curso", "de", "ruby", "on", "rails"]
```

Hash

"Hash é uma coleção de pares chave-valor. É similar a um array exceto por seus índices serem definidos arbitrariamente."

{:key => :value}

```
[9] pry(main)> h = {"nome" => "Roberto", "sobrenome" => "Pinheiro", "numero" => 87}  
=> {"nome"=>"Roberto", "sobrenome"=>"Pinheiro", "numero"=>87}  
[10] pry(main)> h["sobrenome"]  
=> "Pinheiro"  
[11] pry(main)>
```

Métodos, parâmetros e blocos

Métodos, Parâmetros e Blocos

.size .eq? .each

No Ruby tudo é objeto.

Métodos

Métodos são as ações.

```
[11] pry(main)> a.size  
=> 3  
[12] pry(main)>
```

Parâmetros

É a passagem de um dado para um método para que seja retornado algo.

```
[12] pry(main)> a.size.eql?(5)  
=> false  
[13] pry(main)> a.size.eql?(3)  
=> true  
[14] pry(main)>
```

Obs: No Ruby, métodos podem ser encadeados.

Blocos

No bloco, entre o do |elem| e o end é inserido o código.

```
[14] pry(main)> a.each do |elem|  
[14] pry(main)*   puts elem  
[14] pry(main)* end  
85  
777  
Ruby  
=> [85, 777, "Ruby"]
```

Aula 07 - Classes, Módulos, Mixins e o Yield

Classes

O que é uma classe?

"Na programação orientada a objetos, uma classe é uma construção que é usada para criar instâncias de si mesma."

.class

No Ruby, tudo é objeto. Logo, tudo é representado por uma classe.

```
[16] pry(main)> a = 123
=> 123
[17] pry(main)> a.class
=> Integer
[18] pry(main)> nome = "Roberto"
=> "Roberto"
[19] pry(main)> nome.class
=> String
[20] pry(main)> 145.class
=> Integer
[21] pry(main)> 45.82.class
=> Float
```

Instanciando um objeto

```
[1] pry(main)> class Pessoa
[1] pry(main)*   def falar
[1] pry(main)*     puts "Olô! Eu estou falando..."
[1] pry(main)*   end
[1] pry(main)* end
=> :falar
[2] pry(main)> roberto = Pessoa.new
=> #<Pessoa:0x00000000002f70998>
[3] pry(main)> roberto.falar
Olô! Eu estou falando...
=> nil
[4] pry(main)>
```

No irb para limpar a tela:

```
system 'cls'
```


Herança

```
[1] pry(main)> require_relative "pessoa"
=> true
[2] pry(main)> pessoa2 = Pessoa.new
=> #<Pessoa:0x0000000000411dc90>
[3] pry(main)> pessoa2.falar
Olá! Eu estou falando...
=> nil
[4] pry(main)>
```

app/examples/pessoa.rb

```
class Pessoa
  def falar
    puts "Olá! Eu estou falando..."
  end
end
```

app/examples/atleta.rb

```
require_relative "pessoa"

class Atleta < Pessoa
  def correr
    puts "Correndo!!!"
  end
end
```

```
C:\Sites\exemplos\app\examples>irb
irb(main):001:0> require_relative "atleta"
=> true
irb(main):002:0> atleta1 = Atleta.new
=> #<Atleta:0x00000000002d1ec30>
irb(main):003:0> atleta1.correr
Correndo!!!
=> nil
irb(main):004:0> atleta1.falar
Olá! Eu estou falando...
=> nil
irb(main):005:0> █
```

Módulo

Um módulo é uma coleção de métodos e constantes.

Constante é uma variável cujo valor não pode ser alterado.

app/examples/meu_modulo.rb

```
module Configuracoes
  NOME_DO_SISTEMA = "Sistema de Academia"
  VERSAO = "1.2.4.5"

  def calcular
    puts "O resultado final é...."
  end
end
```

```
C:\Sites\exemplos\app\examples>irb
irb(main):001:0> require_relative "meu_modulo"
=> true
irb(main):002:0> Configuracoes::NOME_DO_SISTEMA
=> "Sistema de Academia"
irb(main):003:0> include Configuracoes
=> Object
irb(main):004:0> 
```

Mixin

O que é um Mixin?

"Ruby não suporta herança múltipla diretamente, mas módulos de Ruby podem ter outros usos maravilhosos. De um só golpe, eles praticamente eliminam a necessidade de herança múltipla, proporcionando um mecanismo chamado de Mixin".

app/examples/meu_modulo.rb

```
module Configuracoes
  NOME_DO_SISTEMA = "Sistema de Academia"
  VERSAO = "1.2.4.5"

  def calcular
    puts "O resultado final é...."
  end
end
```

app/examples/modulo_correio.rb

```
module Correio
  def enviar_correio
    puts "Enviando..."
  end
end
```

app/examples/meu_mixin.rb

```
require_relative "meu_modulo"
require_relative "modulo_correio"

class MeuMixin
  include Configuracoes
  include Correio
end
```

```
irb(main):004:0> require_relative "meu_mixin"
=> true
irb(main):005:0> mm = MeuMixin.new
=> #<MeuMixin:0x00000000031eca28>
irb(main):006:0> mm.enviar_correio
Enviando...
=> nil
irb(main):007:0> mm.calcular
O resultado final é....
=> nil
```

Blocos e o Yield

É uma forma de passar bloco de código para dentro de uma função.

```
[2] pry(main)> def ola
[2] pry(main)*   puts "Hello!"
[2] pry(main)*   yield
[2] pry(main)*   puts "Hello world!"
[2] pry(main)* end
=> :ola
[3] pry(main)> ola {puts "Eu aqui no meio..."}
Hello!
Eu aqui no meio...
Hello world!
=> nil
[4] pry(main)>
```

Aula 08 – Banco de dados e Rake

`rails new exemplos --database=mysql`

config/database.yml

```
# MySQL. Versions 5.1.10 and up are supported.
#
# Install the MySQL driver
#   gem install mysql2
#
# Ensure the MySQL gem is defined in your Gemfile
#   gem 'mysql2'
#
# And be sure to use new-style password hashing:
#   https://dev.mysql.com/doc/refman/5.7/en/password-hashing.html
#
default: &default
  adapter: mysql2
  encoding: utf8
  pool: <%= ENV.fetch("RAILS_MAX_THREADS") { 5 } %>
  username: root
  password:
  host: localhost

development:
  <<: *default
  database: exemplos_development

# Warning: The database defined as "test" will be erased and
# re-generated from your development database when you run "rake".
# Do not set this db to the same as development or production.
test:
  <<: *default
  database: exemplos_test

# As with config/secrets.yml, you never want to store sensitive information,
# like your database password, in your source code. If your source code is
# ever seen by anyone, they now have access to your database.
#
# Instead, provide the password as a unix environment variable when you boot
# the app. Read http://guides.rubyonrails.org/configuring.html#configuring-a-database
# for a full rundown on how to provide these environment variables in a
# production deployment.
#
# On Heroku and other platform providers, you may have a full connection URL
# available as an environment variable. For example:
#
```

```
# DATABASE_URL="mysql2://myuser:mypass@localhost/somedatabase"
#
# You can use this database configuration with:
#
# production:
#   url: <%= ENV['DATABASE_URL'] %>
#
production:
  <<: *default
  database: exemplos_production
  username: exemplos
  password: <%= ENV['EXEMPLOS_DATABASE_PASSWORD'] %>
```

O padrão do Ruby é ambiente de desenvolvimento (**exemplos_development**).

rails s

```
C:\Sites\exemplos>rails s
=> Booting Puma
=> Rails 5.2.3 application starting in development
=> Run `rails server -h` for more startup options
*** SIGUSR2 not implemented, signal based restart unavailable!
*** SIGUSR1 not implemented, signal based restart unavailable!
*** SIGHUP not implemented, signal based logs reopening unavailable!
Puma starting in single mode...
* Version 3.12.1 (ruby 2.5.1-p57), codename: Llamas in Pajamas
* Min threads: 5, max threads: 5
* Environment: development
* Listening on tcp://localhost:3000
Use Ctrl-C to stop
```

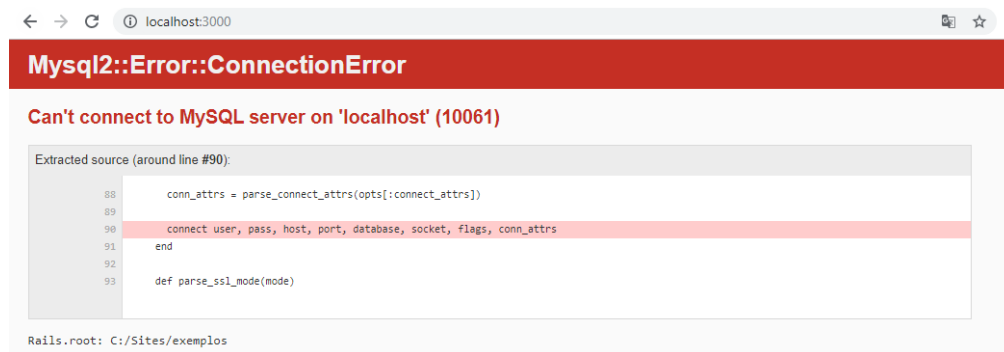
Alterando para ambiente de produção

rails s -e production

```
C:\Sites\exemplos>rails s -e production
=> Booting Puma
=> Rails 5.2.3 application starting in production
=> Run `rails server -h` for more startup options
*** SIGUSR2 not implemented, signal based restart unavailable!
*** SIGUSR1 not implemented, signal based restart unavailable!
*** SIGHUP not implemented, signal based logs reopening unavailable!
Puma starting in single mode...
* Version 3.12.1 (ruby 2.5.1-p57), codename: Llamas in Pajamas
* Min threads: 5, max threads: 5
* Environment: production
* Listening on tcp://0.0.0.0:3000
Use Ctrl-C to stop
```

rails s

localhost:3000



Esse erro ocorre porque o banco de dados ainda não foi criado.

Rake

Rake é uma ferramenta de gerenciamento de tarefas.

rake -T ou rake --tasks

```
C:\Sites\exemplos>rake -T
rake about                # List versions of all Rails framew...
rake active_storage:install # Copy over the migration needed to...
rake app:template          # Applies the template supplied by ...
rake app:update            # Update configs and some other ini...
rake assets:clean[keep]    # Remove old compiled assets
rake assets:clobber        # Remove compiled assets
rake assets:environment    # Load asset compile environment
rake assets:precompile     # Compile all the assets named in c...
rake cache_digests:dependencies # Lookup first-level dependencies f...
rake cache_digests:nested_dependencies # Lookup nested dependencies for TE...
rake db:create             # Creates the database from DATABAS...
rake db:drop              # Drops the database from DATABASE ...
rake db:environment:set   # Set the environment value for the...
rake db:fixtures:load     # Loads fixtures into the current e...
rake db:migrate           # Migrate the database (options: VE...
rake db:migrate:status    # Display status of migrations
rake db:rollback          # Rolls the schema back to the prev...
rake db:schema:cache:clear # Clears a db/schema_cache.yml file
rake db:schema:cache:dump # Creates a db/schema_cache.yml file
rake db:schema:dump       # Creates a db/schema.rb file that ...
rake db:schema:load       # Loads a schema.rb file into the d...
rake db:seed              # Loads the seed data from db/seeds.rb
rake db:setup             # Creates the database, loads the s...
rake db:structure:dump    # Dumps the database structure to d...
rake db:structure:load    # Recreates the databases from the ...
rake db:version           # Retrieves the current schema vers...
rake dev:cache            # Toggle development mode caching o...
rake initializers         # Print out all defined initializer...
rake log:clear            # Truncates all/specified *.log fil...
rake middleware           # Prints out your Rack middleware s...
rake notes               # Enumerate all annotations (use no...
rake notes:custom        # Enumerate a custom annotation, sp...
rake restart             # Restart app by touching tmp/resta...
rake routes              # Print out all defined routes in m...
rake secret              # Generate a cryptographically secu...
rake stats               # Report code statistics (KLOCs, et...
rake test                # Runs all tests in test folder exc...
rake test:db             # Run tests quickly, but also reset db
rake test:system         # Run system tests only
rake time:zones[country_or_offset] # List all time zones, list by two-...
```

Criando o banco de dados

Com o MySQL rodando, entre no terminal, com o comando:

`rake db:create`

```
C:\Sites\exemplos>rake db:create
Created database 'exemplos_development'
Created database 'exemplos_test'
```

```
C:\Sites\exemplos (master)
λ mysql -u root
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 11
Server version: 10.2.3-MariaDB-log mariadb.org binary distribution

Copyright (c) 2000, 2016, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.






MariaDB [(none)]> use exemplos_development
Database changed
MariaDB [exemplos_development]> show databases;
+-----+
| Database |
+-----+
| community_development |
| community_test |
| exemplos_development |
| exemplos_test |
| incidentes |
| information_schema |
| mysql |
| performance_schema |
| receitasnet_development |
| receitasnet_test |
| test |
+-----+
11 rows in set (0.00 sec)

MariaDB [exemplos_development]> |
```

No navegador:

localhost:3000



- ✓  Laragon
 - >  community_development
 - >  community_test
 -  exemplos_development 0 B
 - >  exemplos_test

Aula 09 – CoC e criando o primeiro scaffold

CoC – Convention on Configuration

Convenção sobre configuração (CoC) é utilizado para diminuir o número de decisões que o desenvolvedor necessita fazer, ganhando simplicidade, mas não necessariamente perdendo flexibilidade.

CRUD

São as quatro operações básicas.

Operation	SQL	HTTP
Create	INSERT	PUT / POST
Read (Retrieve)	SELECT	GET
Update (Modify)	UPDATE	PUT / PATCH
Delete (Destroy)	DELETE	DELETE

Scaffold

Ao se gerar um scaffold cria-se um CRUD.

Gerando um scaffold no Rails

Na linha de comando, é especificado o nome do modelo (no caso, customer).

`rails g scaffold customer name:string email:string birthday:date obs:text`

```
C:\Sites\exemplos>rails g scaffold customer name:string email:string birthday:date obs:text
  invoke  active_record
  create  db/migrate/20191015181630_create_customers.rb
  create  app/models/customer.rb
  invoke  test_unit
  create  test/models/customer_test.rb
  create  test/fixtures/customers.yml
  invoke  resource_route
   route  resources :customers
  invoke  scaffold_controller
  create  app/controllers/customers_controller.rb
  invoke  erb
  create  app/views/customers
  create  app/views/customers/index.html.erb
  create  app/views/customers/edit.html.erb
  create  app/views/customers/show.html.erb
  create  app/views/customers/new.html.erb
  create  app/views/customers/_form.html.erb
  invoke  test_unit
  create  test/controllers/customers_controller_test.rb
  create  test/system/customers_test.rb
  invoke  helper
  create  app/helpers/customers_helper.rb
  invoke  test_unit
  invoke  jbuilder
  create  app/views/customers/index.json.jbuilder
  create  app/views/customers/show.json.jbuilder
  create  app/views/customers/_customer.json.jbuilder
  invoke  assets
  invoke  coffee
  create  app/assets/javascripts/customers.coffee
  invoke  scss
  create  app/assets/stylesheets/customers.scss
  invoke  scss
  create  app/assets/stylesheets/scaffolds.scss
```

app/controllers/customers_controller.rb

```
class CustomersController < ApplicationController
  before_action :set_customer, only: [:show, :edit, :update, :destroy]

  # GET /customers
  # GET /customers.json
  def index
    @customers = Customer.all
  end

  # GET /customers/1
  # GET /customers/1.json
  def show
  end

  # GET /customers/new
  def new
    @customer = Customer.new
  end

  # GET /customers/1/edit
  def edit
  end

  # POST /customers
  # POST /customers.json
  def create
    @customer = Customer.new(customer_params)

    respond_to do |format|
      if @customer.save
        format.html { redirect_to @customer, notice: 'Customer was successfully created.' }
        format.json { render :show, status: :created, location: @customer }
      else
        format.html { render :new }
        format.json { render json: @customer.errors, status: :unprocessable_entity }
      end
    end
  end

  # PATCH/PUT /customers/1
  # PATCH/PUT /customers/1.json
  def update
    respond_to do |format|
      if @customer.update(customer_params)
        format.html { redirect_to @customer, notice: 'Customer was successfully updated.' }
        format.json { render :show, status: :ok, location: @customer }
      else
        format.html { render :edit }
      end
    end
  end
end
```

```

    format.json { render json: @customer.errors, status: :unprocessable_entity }
  end
end
end

# DELETE /customers/1
# DELETE /customers/1.json
def destroy
  @customer.destroy
  respond_to do |format|
    format.html { redirect_to customers_url, notice: 'Customer was successfully destroyed.' }
    format.json { head :no_content }
  end
end

private
# Use callbacks to share common setup or constraints between actions.
def set_customer
  @customer = Customer.find(params[:id])
end

# Never trust parameters from the scary internet, only allow the white list through.
def customer_params
  params.require(:customer).permit(:name, :email, :birthday, :obs)
end
end

```

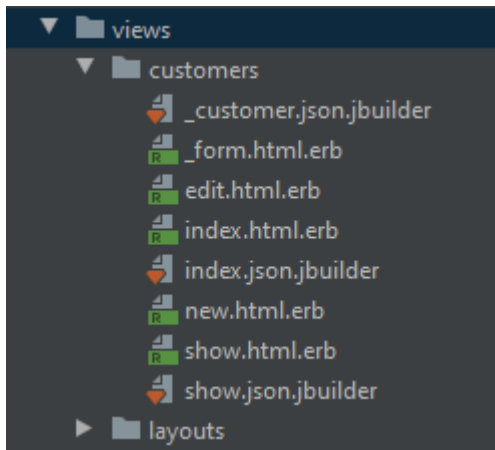
db/migrate/20191016192643_create_customers.rb

```

class CreateCustomers < ActiveRecord::Migration[5.2]
  def change
    create_table :customers do |t|
      t.string :name
      t.string :email
      t.date :birthday
      t.text :obs

      t.timestamps
    end
  end
end

```

**config/routes.rb**

```
Rails.application.routes.draw do
  resources :customers
  # For details on the DSL available within this file, see
  http://guides.rubyonrails.org/routing.html
end
```

rake routes

```
C:\Sites\exampl>rake routes
```

	Prefix Verb	URI Pattern	Controller#Action
	customers GET	/customers(.:format)	customers#index
		POST /customers(.:format)	customers#create
	new_customer GET	/customers/new(.:format)	customers#new
	edit_customer GET	/customers/:id/edit(.:format)	customers#edit
	customer GET	/customers/:id(.:format)	customers#show
		PATCH /customers/:id(.:format)	customers#update
		PUT /customers/:id(.:format)	customers#update
		DELETE /customers/:id(.:format)	customers#destroy
	rails_service_blob GET	/rails/active_storage/blobs/:signed_id/*filename(.:format)	active_storage/blobs#show
	rails_blob_representation GET	/rails/active_storage/representations/:signed_blob_id/*variation_key/*filename(.:format)	active_storage/representations#show
	rails_disk_service GET	/rails/active_storage/disk/:encoded_key/*filename(.:format)	active_storage/disk#show
	update_rails_disk_service PUT	/rails/active_storage/disk/:encoded_token(.:format)	active_storage/disk#update
	rails_direct_uploads POST	/rails/active_storage/direct_uploads(.:format)	active_storage/direct_uploads#create

Aula 10 - Migrations, analisando e usando o Scaffold

Criando a tabela customers

rake db:migrate

```
C:\Sites\exemplos>rake db:migrate
== 20191016192643 CreateCustomers: migrating =====
-- create_table(:customers)
   -> 0.2434s
== 20191016192643 CreateCustomers: migrated (0.2448s) =====
```

Colunas: ➕ Adicionar ➖ Remover ⬆ Mover para cima ⬇ Mover para baixo

#	Nome	Tipo de dados	Tamanho/It...	Unsign...	Permitir...	Zerofill	Padrão
1	id	BIGINT	20	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	AUTO_INCREMENT
2	name	VARCHAR	255	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	NULL
3	email	VARCHAR	255	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	NULL
4	birthday	DATE		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	NULL
5	obs	TEXT		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	NULL
6	created_at	DATETIME		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Nenhum padrão
7	updated_at	DATETIME		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Nenhum padrão

Exemplos × +

← → ↺ 🏠 ℹ localhost:3000/customers

Customers

Name Email Birthday Obs

[New Customer](#)

Exemplos × +

← → ↺ 🏠 ℹ localhost:3000/customers/new

New Customer

Name

Email

Birthday

Obs

[Back](#)

Exemplos

X

+

← → ↺ 🏠

localhost:3000/customers/1

Customer was successfully created.

Name: Roberto Pinheiro

Email: betopinheiro1005@yahoo.com.br

Birthday: 2014-05-10

Obs: Teste de CRUD

[Edit](#) | [Back](#)

Exemplos

X

+

← → ↺ 🏠

localhost:3000/customers/

Customers

Name	Email	Birthday	Obs	
Roberto Pinheiro	betopinheiro1005@yahoo.com.br	2014-05-10	Teste de CRUD	Show Edit Destroy

[New Customer](#)

Exemplos

X

+

← → ↺ 🏠

localhost:3000/customers/new

New Customer

Name

Email

Birthday

Obs

[Back](#)

Exemplos

X

+

← → ↺ 🏠

localhost:3000/customers/2

Customer was successfully created.

Name: Jackson Pires

Email: jackson_pires@gmail.com

Birthday: 2014-05-14

Obs: Testes - Criando o segundo registro

[Edit](#) | [Back](#)

Exemplos

×

+

← → ↺ 🏠

localhost:3000/customers

Customers

Name	Email	Birthday	Obs	
Roberto Pinheiro	betopinheiro1005@yahoo.com.br	2014-05-10	Teste de CRUD	Show Edit Destroy
Jackson Pires	jackson_pires@gmail.com	2014-05-14	Testes - Criando o segundo registro	Show Edit Destroy

[New Customer](#)

Aula 11 - Views, Embedded Ruby e Textos

erb (Embedded Ruby)

```
*.erb  
<% %> <%= %> <%= -%> <%# %>
```

<% %>

Para código Ruby. Não tem saída para o HTML.

<%= %>

Para imprimir textos de variáveis Ruby. Modifica o HTML.

<%= -%>

Imprime texto eliminando espaço em branco do lado direito (tira a quebra de linha).

<%# %>

Comentário

Interpolação de variáveis de texto

`#{}`

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

```
<p id="notice"><%= notice %></p>
```

```
<h1>Customers</h1>
```

```
<% a = "Ruby" %>
```

```
<% b = "Rails" %>
```

```
<h1><%= "#{a} on #{b}" %></h1><h1>
```

```
<table>
```

```
<thead>
```

```
<tr>
```

```
<th>Name</th>
```

```
<th>Email</th>
```

```
<th>Birthday</th>
```

```
<th>Obs</th>
```

```
<th colspan="3"></th>
```

```
</tr>
```

```
</thead>
```

```
<tbody>
```

```
<% @customers.each do |customer| %>
```

```
<tr>
```

```
<td><%= customer.name %></td>
```

```
<td><%= customer.email %></td>
```

```
<td><%= customer.birthday %></td>
```

```
<td><%= customer.obs %></td>
```

```
<td><%= link_to 'Show', customer %></td>
```

```
<td><%= link_to 'Edit', edit_customer_path(customer) %></td>
```

```
<td><%= link_to 'Destroy', customer, method: :delete, data: { confirm: 'Are you sure?' } %></td>
```

```
</tr>
```

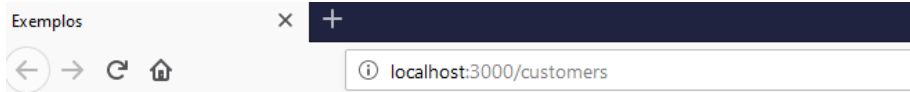
```
<% end %>
```

```
</tbody>
```

```
</table>
```

```
<br>
```

```
<%= link_to 'New Customer', new_customer_path %>
```



Customers

Ruby on Rails

Name	Email	Birthday	Obs	
Roberto Pinheiro	betopinheiro1005@yahoo.com.br	2014-05-10	Teste de CRUD	Show Edit Destroy
Jackson Pires	jackson_pires@gmail.com	2014-05-14	Testes - Criando o segundo registro	Show Edit Destroy

New Customer

Aula 12 - Active Record, Rails Console e Variáveis de Instância

Models

Model < ActiveRecord::Base

app/models/customizer.rb

```
class Customer < ApplicationRecord
end
```

app/models/application_record.rb

```
class ApplicationRecord < ActiveRecord::Base
  self.abstract_class = true
end
```

Console do Ruby

Carrega todas as classes existentes no projeto.

rails console ou rails c

a = Customer.first

```
C:\Sites\exemplos>rails c
Loading development environment (Rails 5.2.3)
irb(main):001:0> a = Customer.first
(0.6ms) SET NAMES utf8, @@SESSION.sql_mode = CONCAT(CONCAT(@@sql_mode, 'STRICT_ALL_TABLES'), ',NO_AUTO_VALUE_ON_ZERO'), @@SESSION.sql_auto_is_null = 0, @@SESSION.wait_timeout = 2147483
Customer Load (0.5ms) SELECT `customers`.* FROM `customers` ORDER BY `customers`.`id` ASC LIMIT 1
=> #<Customer id: 1, name: "Roberto Pinheiro", email: "betopinheiro1005@yahoo.com.br", birthday: "2014-05-10", obs: "Teste de CRUD", created_at: "2019-10-16 19:31:01", updated_at: "2019-10-16 19:31:01">
```

```
irb(main):002:0> a.name
=> "Roberto Pinheiro"
irb(main):003:0> a.email
=> "betopinheiro1005@yahoo.com.br"
irb(main):004:0> a.birthday
=> Sat, 10 May 2014
irb(main):005:0> a.obs
=> "Teste de CRUD"
irb(main):006:0> 
```

b = Customer.all

```
irb(main):006:0> b = Customer.all
Customer Load (1.1ms) SELECT `customers`.* FROM `customers` LIMIT 11
=> #<ActiveRecord::Relation [#<Customer id: 1, name: "Roberto Pinheiro", email: "betopinheiro1005@yahoo.com.br", birthday: "2014-05-10", obs: "Teste de CRUD", created_at: "2019-10-16 19:31:01", updated_at: "2019-10-16 19:31:01">, #<Customer id: 2, name: "Jackson Pires", email: "jackson_pires@gmail.com", birthday: "2014-05-14", obs: "Testes - Criando o segundo registro", created_at: "2019-10-16 19:32:03", updated_at: "2019-10-16 19:32:03">]>
```

Variáveis de instância

Variáveis de instância possuem o @ precedendo o nome da variável.

Exemplo:

No controller:

```
def index
  @customers = Customer.all
end
```

Na view "app/views/customers/index.html.erb":

```
<% @customers.each do |customer| %>
  <tr>
    <td><%= customer.name %></td>
    <td><%= customer.email %></td>
    <td><%= customer.birthday %></td>
    <td><%= customer.obs %></td>
    <td><%= link_to 'Show', customer %></td>
    <td><%= link_to 'Edit', edit_customer_path(customer) %></td>
    <td><%= link_to 'Destroy', customer, method: :delete, data: { confirm: 'Are you sure?' } %></td>
  </tr>
<% end %>
```

Aula 13 - Rotas, Criando um Controller e Usando Helpers

Criando um controller

`rails g controller welcome`

```
C:\Sites\exemplos>rails g controller welcome
create  app/controllers/welcome_controller.rb
invoke  erb
create  app/views/welcome
invoke  test_unit
create  test/controllers/welcome_controller_test.rb
invoke  helper
create  app/helpers/welcome_helper.rb
invoke  test_unit
invoke  assets
invoke  coffee
create  app/assets/javascripts/welcome.coffee
invoke  scss
create  app/assets/stylesheets/welcome.scss
```

`app/controllers/welcome_controller.rb`

```
class WelcomeController < ApplicationController
  def index
    @message = "Seja bem-vindo!"
  end
end
```

Tornando uma rota específica como inicial

`config/routes.rb`

```
Rails.application.routes.draw do
  root 'welcome#index'
  get 'welcome' => 'welcome#index'
  resources :customers
end
```



Teste de página INDEX na WELCOME CONTROLLER

Seja bem-vindo!

Helpers

`link_to`

`rake routes`

```
C:\Sites\exemplos>rake routes
      Prefix Verb   URI Pattern
      root GET    /
      welcome GET    /welcome(.:format)
      customers GET    /customers(.:format)
      POST    /customers(.:format)
      new_customer GET    /customers/new(.:format)
      edit_customer GET    /customers/:id/edit(.:format)
      customer GET    /customers/:id(.:format)
      PATCH   /customers/:id(.:format)
      PUT     /customers/:id(.:format)
      DELETE  /customers/:id(.:format)
      rails_service_blob GET    /rails/active_storage/blobs/:signed_id/*filename(.:format)
      rails_blob_representation GET    /rails/active_storage/representations/:signed_blob_id/:variation_key/*filename(.:format)
      rails_disk_service GET    /rails/active_storage/disk/:encoded_key/*filename(.:format)
      update_rails_disk_service PUT    /rails/active_storage/disk/:encoded_token(.:format)
      rails_direct_uploads POST   /rails/active_storage/direct_uploads(.:format)
```

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

```
<h1>Teste de página INDEX na WELCOME CONTROLLER</h1>
<h2><%= @message %></h2>
<%= link_to "Cadastro de clientes", customers_path %>
```



Teste de página INDEX na WELCOME CONTROLLER

Seja bem-vindo!

[Cadastro de clientes](#)



Customers

Name	Email	Birthday	Obs	
Roberto Pinheiro	betopinheiro1005@yahoo.com.br	2014-05-10	Teste de CRUD	Show Edit Destroy
Jackson Pires	jackson_pires@gmail.com	2014-05-14	Testes - Criando o segundo registro	Show Edit Destroy

[New Customer](#)

Aula 14 – Rotas REST / Restfull

O termo **REST** se referia, originalmente, a um conjunto de princípios de arquitetura (descritos mais abaixo), na atualidade se usa no sentido mais amplo para descrever qualquer interface web simples que utiliza XML e HTTP (ou YAML, JSON, ou texto puro), sem as abstrações adicionais dos protocolos baseados em padrões de trocas de mensagem como o protocolo de serviços web SOAP.

Os sistemas que seguem os princípios REST são frequentemente chamados de **RESTfull**.

Endpoint	Método	Ação
/users	GET	Retorna a lista de usuários
/users	POST	Insere um novo usuário
/users/{id}	GET	Retorna o usuário com id = {id}
/users/{id}	PUT	Substitui os dados do usuário com id = {id}
/users/{id}	PATCH	Altera itens dos dados do usuário com id = {id}
/users/{id}	DELETE	Remove o usuário com id = {id}

rake routes

```
C:\Sites\exemplos>rake routes
      Prefix Verb   URI Pattern
root GET      /
welcome GET    /welcome(.:format)
customers GET   /customers(.:format)
              POST    /customers(.:format)
new_customer GET   /customers/new(.:format)
edit_customer GET   /customers/:id/edit(.:format)
customer GET    /customers/:id(.:format)
              PATCH   /customers/:id(.:format)
              PUT     /customers/:id(.:format)
              DELETE  /customers/:id(.:format)
rails_service_blob GET    /rails/active_storage/blobs/:signed_id/*filename(.:format)
rails_blob_representation GET    /rails/active_storage/representations/:signed_blob_id/:variation_key/*filename(.:format)
rails_disk_service GET    /rails/active_storage/disk/:encoded_key/*filename(.:format)
update_rails_disk_service PUT    /rails/active_storage/disk/:encoded_token(.:format)
rails_direct_uploads POST   /rails/active_storage/direct_uploads(.:format)
```

Controller#Action
welcome#index
welcome#index
customers#index
customers#create
customers#new
customers#edit
customers#show
customers#update
customers#update
customers#destroy
active_storage/blobs#show
active_storage/representations#show
active_storage/disk#show
active_storage/disk#update
active_storage/direct_uploads#create

Aula 15 - Symbols x Strings e brincando com Active Record

:texto x "texto"

```
C:\Sites\exemplos>rails c
Loading development environment (Rails 5.2.3)
irb(main):001:0> "rails".class
=> String
irb(main):002:0> "rails".object_id
=> 64345300
irb(main):003:0> "rails".object_id
=> 64528060
irb(main):004:0> "rails".object_id
=> 64688600
irb(main):005:0> :rails.class
=> Symbol
irb(main):006:0> :rails.object_id
=> 1786268
irb(main):007:0> :rails.object_id
=> 1786268
irb(main):008:0> :rails.object_id
=> 1786268
```

Símbolo não é repetido na memória.

String, sempre que é invocada é criada uma nova instância em memória.

A diferença básica está na performance (relacionada ao uso de memória).

Active Record

Pesquisando no BD

rails c

y = Customer.where(id: 1) ou y = Customer.where(:id => 1)

```
irb(main):010:0> y = Customer.where(:id => 1)
(1.5ms) SET NAMES utf8, @@SESSION.sql_mode = CONCAT(CONCAT(@@sql_mode, 'STRICT_ALL_TABLES'), ',NO_AUTO_VALUE_ON_ZERO'), @@SESSION.sql_auto_is_null = 0, @@SESSION.wait_timeout = 21
47483
(1.5ms) SET NAMES utf8, @@SESSION.sql_mode = CONCAT(CONCAT(@@sql_mode, 'STRICT_ALL_TABLES'), ',NO_AUTO_VALUE_ON_ZERO'), @@SESSION.sql_auto_is_null = 0, @@SESSION.wait_timeout = 2147483
Customer Load (1.2ms) SELECT `customers`.* FROM `customers` WHERE `customers`.`id` = 1 LIMIT 11
=> #<ActiveRecord::Relation [#<Customer id: 1, name: "Roberto Pinheiro", email: "betopinheiro1005@yahoo.com.br", birthday: "2014-05-10", obs: "Teste de CRUD", created_at: "2019-10-16 19:31:01", updated_at: "2019-10-16 19:31:01">]>
irb(main):011:0> y = Customer.where(id: 1)
Customer Load (0.4ms) SELECT `customers`.* FROM `customers` WHERE `customers`.`id` = 1 LIMIT 11
=> #<ActiveRecord::Relation [#<Customer id: 1, name: "Roberto Pinheiro", email: "betopinheiro1005@yahoo.com.br", birthday: "2014-05-10", obs: "Teste de CRUD", created_at: "2019-10-16 19:31:01", updated_at: "2019-10-16 19:31:01">]>
```

Criando e persistindo no BD

z = Customer.create(name: "Maria Fernandes", email: "maria_fernandes@gmail.com", birthday: Date.today, obs: "Cadastro de Maria Fernandes")

```
irb(main):014:0> z = Customer.create(name: "Maria Fernandes", email: "maria_fernandes@gmail.com", birthday: Date.today, obs: "Cadastro de Maria Fernandes")
(1.0ms) BEGIN
Customer Create (56.8ms) INSERT INTO `customers` (`name`, `email`, `birthday`, `obs`, `created_at`, `updated_at`) VALUES ('Maria Fernandes', 'maria_fernandes@gmail.com', '2019-10-16', 'Cadastro de Maria Fernandes', '2019-10-16 19:21:28', '2019-10-16 19:21:28')
(97.6ms) COMMIT
=> #<Customer id: 3, name: "Maria Fernandes", email: "maria_fernandes@gmail.com", birthday: "2019-10-16", obs: "Cadastro de Maria Fernandes", created_at: "2019-10-16 19:21:28", updated_at: "2019-10-16 19:21:28">
```

Instanciando o objeto

w = Customer.new

w.name = "Ricardo Amorim"

w.email = "ricardo_amorim@gmail.com"

w.birthday = "Date.today"

w.obs = "Instanciando um objeto"

w.save

```
irb(main):001:0> w = Customer.new
(0.5ms) SET NAMES utf8, @@SESSION.sql_mode = CONCAT(CONCAT(@@sql_mode, 'STRICT_ALL_TABLES'), 'NO_AUTO_VALUE_ON_ZERO'), @@SESSION.sql_auto_is_null = 0, @@SESSION.wait_timeout = 2147483
=> #<Customer id: nil, name: nil, email: nil, birthday: nil, obs: nil, created_at: nil, updated_at: nil>
irb(main):002:0> w.name = "Ricardo Amorim"
=> "Ricardo Amorim"
irb(main):003:0> w.email = "ricardo_amorim@gmail.com"
=> "ricardo_amorim@gmail.com"
irb(main):005:0> w.birthday = Date.today
=> Wed, 16 Oct 2019
irb(main):006:0> w.obs = "Instanciando um objeto"
=> "Instanciando um objeto"
irb(main):007:0> w.save
(0.5ms) BEGIN
Customer Create (103.2ms) INSERT INTO `customers` (`name`, `email`, `birthday`, `obs`, `created_at`, `updated_at`) VALUES ('Ricardo Amorim', 'ricardo_amorim@gmail.com', '2019-10-16', 'Instanciando um objeto', '2019-10-16 19:32:05', '2019-10-16 19:32:05')
(64.0ms) COMMIT
=> true
```

Aula 16 - Controllers, Filtros e Partial

Filtros

Filtros são métodos que são rodados antes (`before_action`), durante (`around_action`) ou depois (`after_action`) de uma ação de um controller.

`before_action` x `before_filter`

São a mesma coisa.

Antes da versão 4 do Ruby usava-se `before_filter`. Da versão 4 em diante usa-se `before_action`.

Exemplo:

`before_action :set_customer, only: [:show, :edit, :update, :destroy]`

```
def show
end
```

```
def edit
end
```

```
def update
  respond_to do |format|
    if @customer.update(customer_params)
      format.html { redirect_to @customer, notice: 'Customer was successfully updated.' }
      format.json { render :show, status: :ok, location: @customer }
    else
      format.html { render :edit }
      format.json { render json: @customer.errors, status: :unprocessable_entity }
    end
  end
end

def destroy
  @customer.destroy
  respond_to do |format|
    format.html { redirect_to customers_url, notice: 'Customer was successfully destroyed.' }
    format.json { head :no_content }
  end
end
```

private

```
# Use callbacks to share common setup or constraints between actions.
def set_customer
  @customer = Customer.find(params[:id])
end
```

Partials

É um arquivo com a extensão `.html.erb` que começa com `underline(_)` e que pode ser compartilhado entre outros arquivos.

Exemplo:

`_form.html.erb`

Aula 17 – Helpers e Params

`form(method = "post", action = script_name, enctype = "application/x-www-form-urlencoded")`

`public`

Generate a Form element as a string.

method should be either “get” or “post”, and defaults to the latter. action defaults to the current CGI script name. enctype defaults to “application/x-www-form-urlencoded”.

Alternatively, the attributes can be specified as a hash.

See also `#multipart_form()` for forms that include file uploads.

```
form{ "string" }  
  # <FORM METHOD="post" ENCTYPE="application/x-www-form-urlencoded">string</FORM>  
  
form("get") { "string" }  
  # <FORM METHOD="get" ENCTYPE="application/x-www-form-urlencoded">string</FORM>  
  
form("get", "url") { "string" }  
  # <FORM METHOD="get" ACTION="url" ENCTYPE="application/x-www-form-urlencoded">string</FORM>  
  
form("METHOD" => "post", "ENCTYPE" => "enctype") { "string" }  
  # <FORM METHOD="post" ENCTYPE="enctype">string</FORM>
```

`text_field(name = "", value = nil, size = 40, maxlength = nil) public`

Generate a text field Input element, as a String.

name is the name of the input field. value is its initial value. size is the size of the input area. maxlength is the maximum length of input accepted.

Alternatively, the attributes can be specified as a hash.

```
text_field("name")
# <INPUT TYPE="text" NAME="name" SIZE="40">

text_field("name", "value")
# <INPUT TYPE="text" NAME="name" VALUE="value" SIZE="40">

text_field("name", "value", 80)
# <INPUT TYPE="text" NAME="name" VALUE="value" SIZE="80">

text_field("name", "value", 80, 200)
# <INPUT TYPE="text" NAME="name" VALUE="value" SIZE="80" MAXLENGTH="200">

text_field("NAME" => "name", "VALUE" => "value")
# <INPUT TYPE="text" NAME="name" VALUE="value">
```

text_field(name = "", value = nil, size = 40, maxlength = nil) public

Generate a text field Input element, as a String.

name is the name of the input field. value is its initial value. size is the size of the input area. maxlength is the maximum length of input accepted.

Alternatively, the attributes can be specified as a hash.

```
text_field("name")
# <INPUT TYPE="text" NAME="name" SIZE="40">

text_field("name", "value")
# <INPUT TYPE="text" NAME="name" VALUE="value" SIZE="40">

text_field("name", "value", 80)
# <INPUT TYPE="text" NAME="name" VALUE="value" SIZE="80">

text_field("name", "value", 80, 200)
# <INPUT TYPE="text" NAME="name" VALUE="value" SIZE="80" MAXLENGTH="200">

text_field("NAME" => "name", "VALUE" => "value")
# <INPUT TYPE="text" NAME="name" VALUE="value">
```


submit(value = nil, name = nil) public

Generate a submit button Input element, as a String.

value is the text to display on the button. name is the name of the input.

Alternatively, the attributes can be specified as a hash.

```
submit
# <INPUT TYPE="submit">

submit("ok")
# <INPUT TYPE="submit" VALUE="ok">

submit("ok", "button1")
# <INPUT TYPE="submit" VALUE="ok" NAME="button1">

submit("VALUE" => "ok", "NAME" => "button1", "ID" => "foo")
# <INPUT TYPE="submit" VALUE="ok" NAME="button1" ID="foo">
```

Params

Exemplo:

```
private
# Use callbacks to share common setup or constraints between actions.
def set_customer
  @customer = Customer.find(params[:id])
end

# Never trust parameters from the scary internet, only allow the white list through.
def customer_params
  params.require(:customer).permit(:name, :email, :birthday, :obs)
end
```

Aula 18 – Internationalization

i18n

config/application.rb

```
require_relative 'boot'

require 'rails/all'

# Require the gems listed in Gemfile, including any gems
# you've limited to :test, :development, or :production.
Bundler.require(*Rails.groups)

module Exemplos
  class Application < Rails::Application
    # Initialize configuration defaults for originally generated Rails version.
    config.load_defaults 5.2

    # Settings in config/environments/* take precedence over those specified here.
    # Application configuration can go into files in config/initializers
    # -- all .rb files in that directory are automatically loaded after loading
    # the framework and any gems in your application.
    config.i18n.default_locale = "pt-BR"
  end
end
```

Como usar?

translate # Traduzir textos
localize # Localizar data/hora

i18n.t # Traduzir textos
i18n.l # Localizar data/hora

Nas views:

t # Traduzir textos
l # Localizar data/hora

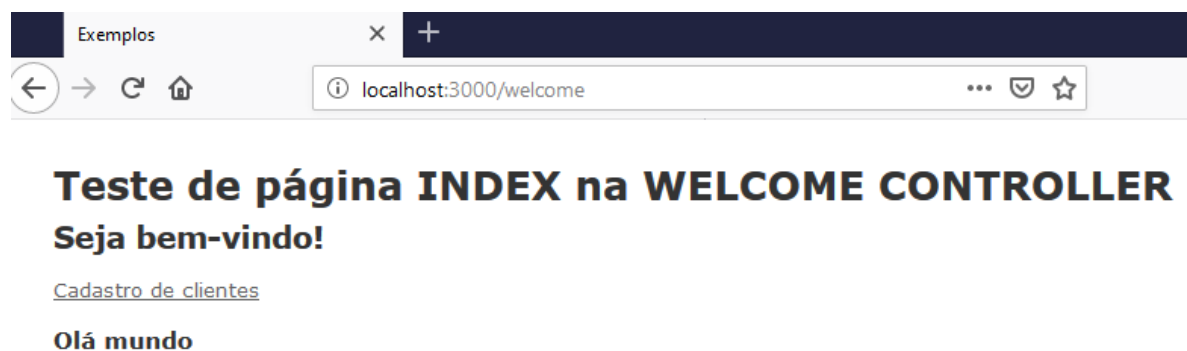
config/locales/pt-br.yml

```
pt-BR:  
  hello: "Olá mundo"
```

- Reinicie o servidor.

app/views/welcome/index.html.erb

```
<h1>Teste de página INDEX na WELCOME CONTROLLER</h1>  
<h2><%= @message %></h2>  
<%= link_to "Cadastro de clientes", customers_path %>  
  
<h3><%= t('hello') %></h3>
```



- Acesse a URL:

<https://github.com/svenfuchs/rails-i18n/tree/master/rails/locale>

E copie o conteúdo no arquivo **pt-BR.yml**

config/locales/pt-br_rails.rb

```
pt-BR:
  activerecord:
    errors:
      messages:
        record_invalid: 'A validação falhou: %{errors}'
        restrict_dependent_destroy:
          has_one: Não é possível excluir o registro pois existe um %{record} dependente
          has_many: Não é possível excluir o registro pois existem %{record} dependentes
    date:
      abbr_day_names:
        - dom
        - seg
        - ter
        - qua
        - qui
        - sex
        - sáb
      abbr_month_names:
        -
        - jan
        - fev
        - mar
        - abr
        - mai
        - jun
        - jul
        - ago
        - set
        - out
        - nov
        - dez
      day_names:
        - domingo
        - segunda-feira
        - terça-feira
        - quarta-feira
        - quinta-feira
        - sexta-feira
        - sábado
      formats:
        default: "%d/%m/%Y"
        long: "%d de %B de %Y"
        short: "%d de %B"
      month_names:
        -
        - janeiro
        - fevereiro
        - março
```

- abril
- maio
- junho
- julho
- agosto
- setembro
- outubro
- novembro
- dezembro

order:

- :day
- :month
- :year

datetime:

distance_in_words:

about_x_hours:

- one: aproximadamente 1 hora
- other: aproximadamente %{count} horas

about_x_months:

- one: aproximadamente 1 mês
- other: aproximadamente %{count} meses

about_x_years:

- one: aproximadamente 1 ano
- other: aproximadamente %{count} anos

almost_x_years:

- one: quase 1 ano
- other: quase %{count} anos

half_a_minute: meio minuto

less_than_x_seconds:

- one: menos de 1 segundo
- other: menos de %{count} segundos

less_than_x_minutes:

- one: menos de um minuto
- other: menos de %{count} minutos

over_x_years:

- one: mais de 1 ano
- other: mais de %{count} anos

x_seconds:

- one: 1 segundo
- other: "%{count} segundos"

x_minutes:

- one: 1 minuto
- other: "%{count} minutos"

x_days:

- one: 1 dia
- other: "%{count} dias"

x_months:

- one: 1 mês
- other: "%{count} meses"

x_years:

- one: 1 ano
- other: "%{count} anos"

prompts:

second: Segundo

minute: Minuto

hour: Hora

day: Dia

month: Mês

year: Ano

errors:

format: "%{attribute} %{message}"

messages:

accepted: deve ser aceito

blank: não pode ficar em branco

confirmation: não é igual a %{attribute}

empty: não pode ficar vazio

equal_to: deve ser igual a %{count}

even: deve ser par

exclusion: não está disponível

greater_than: deve ser maior que %{count}

greater_than_or_equal_to: deve ser maior ou igual a %{count}

inclusion: não está incluído na lista

invalid: não é válido

less_than: deve ser menor que %{count}

less_than_or_equal_to: deve ser menor ou igual a %{count}

model_invalid: 'A validação falhou: %{errors}'

not_a_number: não é um número

not_an_integer: não é um número inteiro

odd: deve ser ímpar

other_than: deve ser diferente de %{count}

present: deve ficar em branco

required: é obrigatório(a)

taken: já está em uso

too_long:

one: 'é muito longo (máximo: 1 caracter)'

other: 'é muito longo (máximo: %{count} caracteres)'

too_short:

one: 'é muito curto (mínimo: 1 caracter)'

other: 'é muito curto (mínimo: %{count} caracteres)'

wrong_length:

one: não possui o tamanho esperado (1 caracter)

other: não possui o tamanho esperado (%{count} caracteres)

template:

body: 'Por favor, verifique o(s) seguinte(s) campo(s):'

header:

one: 'Não foi possível gravar %{model}: 1 erro'

other: 'Não foi possível gravar %{model}: %{count} erros'

helpers:

select:

prompt: Por favor selecione

submit:

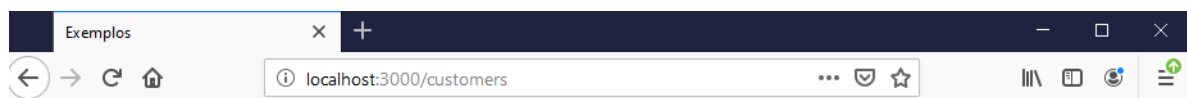
create: Criar %{model}

submit: Salvar %{model}

update: Atualizar %{model}

number:
currency:
format:
 delimiter: "."
 format: "%u %n"
 precision: 2
 separator: ","
 significant: false
 strip_insignificant_zeros: false
 unit: R\$
format:
 delimiter: "."
 precision: 3
 separator: ","
 significant: false
 strip_insignificant_zeros: false
human:
decimal_units:
 format: "%n %u"
 units:
 billion:
 one: bilhão
 other: bilhões
 million:
 one: milhão
 other: milhões
 quadrillion:
 one: quadrilhão
 other: quadrilhões
 thousand: mil
 trillion:
 one: trilhão
 other: trilhões
 unit: "
format:
 delimiter: "
 precision: 3
 significant: true
 strip_insignificant_zeros: true
storage_units:
 format: "%n %u"
 units:
 byte:
 one: Byte
 other: Bytes
 eb: EB
 gb: GB
 kb: KB
 mb: MB
 pb: PB
 tb: TB
percentage:

```
format:
  delimiter: "."
  format: "%n%"
precision:
  format:
    delimiter: "."
support:
  array:
    last_word_connector: " e "
    two_words_connector: " e "
    words_connector: ", "
time:
  am: "
  formats:
    default: "%a, %d de %B de %Y, %H:%M:%S %z"
    long: "%d de %B de %Y, %H:%M"
    short: "%d de %B, %H:%M"
  pm: "
```



Customers

Name	Email	Birthday	Obs	
Roberto Pinheiro	betopinheiro1005@yahoo.com.br	10/05/2014	Teste de CRUD	Show Edit Destroy
Jackson Pires	jackson_pires@gmail.com	14/05/2014	Testes - Criando o segundo registro	Show Edit Destroy
Maria Fernandes	maria_fernandes@gmail.com	16/10/2019	Cadastro de Maria Fernandes	Show Edit Destroy
Ricardo Amorim	ricardo_amorim@gmail.com	16/10/2019	Instanciando um objeto	Show Edit Destroy

[New Customer](#)

Aula 19 - Twitter Bootstrap e i18n para Active Record

Gemfile

```
source 'https://rubygems.org'
git_source(:github) { |repo| "https://github.com/#{repo}.git" }

ruby '2.5.1'

gem 'pry', '~> 0.12.2'
gem 'rb-readline', '~> 0.5.3'

# Twitter Bootstrap for Rails 6, 5 and 4 Asset Pipeline
gem 'twitter-bootstrap-rails', :git => 'git://github.com/seyhunak/twitter-bootstrap-rails.git'

# Bundle edge Rails instead: gem 'rails', github: 'rails/rails'
gem 'rails', '~> 5.2.1'
# Use mysql as the database for Active Record
gem 'mysql2', '>= 0.4.4', '< 0.6.0'
# Use Puma as the app server
gem 'puma', '~> 3.11'
# Use SCSS for stylesheets
gem 'sass-rails', '~> 5.0'
# Use Uglifier as compressor for JavaScript assets
gem 'uglifier', '>= 1.3.0'
# See https://github.com/rails/execjs#readme for more supported runtimes
gem 'duktape'
# Use CoffeeScript for .coffee assets and views
gem 'coffee-rails', '~> 4.2'
# Turbolinks makes navigating your web application faster. Read more:
https://github.com/turbolinks/turbolinks
gem 'turbolinks', '~> 5'
# Build JSON APIs with ease. Read more: https://github.com/rails/jbuilder
gem 'jbuilder', '~> 2.5'
# Use Redis adapter to run Action Cable in production
# gem 'redis', '~> 4.0'
# Use ActiveModel has_secure_password
# gem 'bcrypt', '~> 3.1.7'

# Use ActiveStorage variant
# gem 'mini_magick', '~> 4.8'

# Use Capistrano for deployment
# gem 'capistrano-rails', group: :development

# Reduces boot times through caching; required in config/boot.rb
gem 'bootsnap', '>= 1.1.0', require: false

group :development, :test do
```

```

# Call 'byebug' anywhere in the code to stop execution and get a debugger console
gem 'byebug', platforms: [:mri, :mingw, :x64_mingw]
end

group :development do
  # Access an interactive console on exception pages or by calling 'console' anywhere in the code.
  gem 'web-console', '>= 3.3.0'
end

group :test do
  # Adds support for Capybara system testing and selenium driver
  gem 'capybara', '>= 2.15'
  gem 'selenium-webdriver'
  # Easy installation and use of chromedriver to run system tests with Chrome
  gem 'chromedriver-helper'
end

# Windows does not include zoneinfo files, so bundle the tzinfo-data gem
gem 'tzinfo-data', platforms: [:mingw, :mswin, :x64_mingw, :jruby]

```

bundle install

rails generate bootstrap:install static

```

C:\Sites\exemplos>rails generate bootstrap:install static
insert  app/assets/javascripts/application.js
create  app/assets/javascripts/bootstrap.js.coffee
create  app/assets/stylesheets/bootstrap and overrides.css
create  config/locales/en.bootstrap.yml
gsub    app/assets/stylesheets/application.css

```

rails g bootstrap:themed Customers

```

C:\Sites\exemplos>rails g bootstrap:themed Customers
conflict  app/views/customers/index.html.erb
Overwrite C:/Sites/exemplos/app/views/customers/index.html.erb? (enter "h" for help) [Ynaqdhm] y
force  app/views/customers/index.html.erb
conflict  app/views/customers/new.html.erb
Overwrite C:/Sites/exemplos/app/views/customers/new.html.erb? (enter "h" for help) [Ynaqdhm] y
force  app/views/customers/new.html.erb
conflict  app/views/customers/edit.html.erb
Overwrite C:/Sites/exemplos/app/views/customers/edit.html.erb? (enter "h" for help) [Ynaqdhm] y
force  app/views/customers/edit.html.erb
conflict  app/views/customers/_form.html.erb
Overwrite C:/Sites/exemplos/app/views/customers/_form.html.erb? (enter "h" for help) [Ynaqdhm] y
force  app/views/customers/_form.html.erb
conflict  app/views/customers/show.html.erb
Overwrite C:/Sites/exemplos/app/views/customers/show.html.erb? (enter "h" for help) [Ynaqdhm] y
force  app/views/customers/show.html.erb

```

- Reinicie o servidor para que as alterações tenham efeito.

Exemplos

localhost:3000/customers

Customers

Id	Name	Email	Birthday	Obs	Created at	Actions
1	Roberto Pinheiro	betopinheiro1005@yahoo.com.br	2014-05-10	Teste de CRUD	qua, 16 de outubro de 2019, 19:31:01 +0000	Show Edit Destroy
2	Jackson Pires	jackson_pires@gmail.com	2014-05-14	Testes - Criando o segundo registro	qua, 16 de outubro de 2019, 19:32:03 +0000	Show Edit Destroy
3	Maria Fernandes	maria_fernandes@gmail.com	2019-10-16	Cadastro de Maria Fernandes	qua, 16 de outubro de 2019, 19:21:28 +0000	Show Edit Destroy
4	Ricardo Amorim	ricardo_amorim@gmail.com	2019-10-16	Instanciando um objeto	qua, 16 de outubro de 2019, 19:32:05 +0000	Show Edit Destroy

New

Traduções

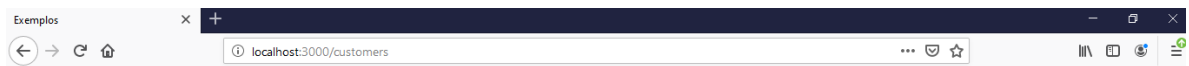
config/locales/pt-br_models.yml

```
pt-BR:
  activerecord:
    models:
      customer: Cliente
    attributes:
      customer:
        name: Nome
        email: Email
        birthday: Aniversário
        obs: Observações
        created_at: Criado em
```

config/locales/pt-br_bootstrap.yml

```
# Sample localization file for English. Add more files in this directory for other locales.
# See https://github.com/svenfuchs/rails-i18n/tree/master/rails%2Flocale for starting points.
```

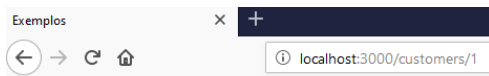
```
pt-BR:
  breadcrumbs:
    application:
      root: "Index"
    pages:
      pages: "Páginas"
  helpers:
    actions: "Ações"
    links:
      back: "Voltar"
      cancel: "Cancelar"
      confirm: "Tem certeza?"
      destroy: "Excluir"
      new: "Novo"
      edit: "Editar"
  titles:
    edit: "Editar %{model}"
    save: "Salvar %{model}"
    new: "Novo %{model}"
    delete: "Apagar %{model}"
```



Clientes

Id	Nome	Email	Aniversário	Observações	Criado em	Ações
1	Roberto Pinheiro	betopinheiro1005@yahoo.com.br	2014-05-10	Teste de CRUD	qua, 16 de outubro de 2019, 19:31:01 +0000	Show Editar Excluir
2	Jackson Pires	jackson_pires@gmail.com	2014-05-14	Testes - Criando o segundo registro	qua, 16 de outubro de 2019, 19:32:03 +0000	Show Editar Excluir
3	Maria Fernandes	maria_fernandes@gmail.com	2019-10-16	Cadastro de Maria Fernandes	qua, 16 de outubro de 2019, 19:21:28 +0000	Show Editar Excluir
4	Ricardo Amorim	ricardo_amorim@gmail.com	2019-10-16	Instanciando um objeto	qua, 16 de outubro de 2019, 19:32:05 +0000	Show Editar Excluir

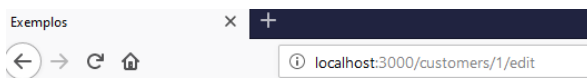
[Novo](#)



Cliente

Nome: Roberto Pinheiro
Email: betopinheiro1005@yahoo.com.br
Aniversário: 2014-05-10
Observações: Teste de CRUD

[Voltar](#) [Editar](#) [Excluir](#)



Editar Cliente

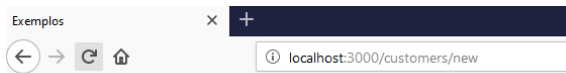
Nome

Email

Aniversário

Observações

[Atualizar Cliente](#) [Cancelar](#)



Novo Cliente

Nome

Email

Aniversário

Observações

[Criar Cliente](#) [Cancelar](#)