

 免費電子書

學習

# Ruby on Rails

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#ruby-on-  
rails

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---

# 1: Ruby on Rails



Ruby on RailsRoRRailsWeb。 RailsRubyHTMLCSSJavaScriptWebWeb。 Rails - - MVC。

5.1.2	2017626
5	2016630
4.2	
4.1	201448
4	2013625
3.2	2012-01-20
3.1	2011-08-31
3.0	2010-08-29
2.3	2009-03-16
2.0	2007-12-07
1.2	2007-01-19
1.1	2006-03-28
1.0	2005-12-13

## Examples

### Ruby on Rails

*RubyRuby on Rails。* ◦

- railsrails new

```
$ rails new my_app
```

RailsRails◦ rails \_version\_ new

```
$ rails _4.2.0_ new my_app
```

my\_appMyApp**Rails** Gemfilebundle installGemfilegem◦

cdchange directory ◦

```
$ cd my_app
```

my\_app**Rails**◦

/	◦
/	rails◦
/	◦
config.ru	◦
D b/	◦
Gemfile Gemfile.lock	Railsgem◦ Bundler gem◦
LIB /	◦
/	
/	◦ ◦
Rake	◦ Rails◦
README.md	◦
/	◦
/	pid◦
/	◦ Rails◦

database.yml

5



```
rake db:create
# OR
rails db:create
```

5

```
rake db:create
```

5

```
rake db:migrate
# OR
rails db:migrate
```

5

```
rake db:migrate
```

```
$ rails server
# OR
$ rails s
```

rails3000。

```
$ rails s -p 3010
```

[http:// localhost3000](http://localhost3000) Rails。

- config/database.yml
- Gemfile。
- ◦ rails db:migrate
- rails db:rollback

config/database.yml

## RailsRSpec

Railssqlite3rails。 -d。

```
$ rails new MyApp -T -d postgresql
```

- MySQL
- PostgreSQL
- sqlite3
- frontbase
- IBM\_DB
- SQLSERVER
- jdbcmysql

- jdbcsqlite3
- jdbcpostgresql
- JDBC

-Tminitest。 [RSpecGemfile](#)

```
group :development, :test do
  gem 'rspec-rails',
end
```

```
rails generate rspec:install
```

Posts

```
$ rails generate controller Posts
```

generateg

```
$ rails g controller Posts
```

app / controllers / **posts\_controller.rb**

```
class PostsController < ApplicationController
  # empty
end
```

。

```
$ rails g controller ControllerName method1 method2
```

parent\_module/controller\_name。

```
$ rails generate controller CreditCards open debit credit close
# OR
$ rails g controller CreditCards open debit credit close
```

```
Controller: app/controllers/credit_cards_controller.rb
Test:       test/controllers/credit_cards_controller_test.rb
Views:     app/views/credit_cards/debit.html.erb [...etc]
Helper:    app/helpers/credit_cards_helper.rb
```

ApplicationController。

。

[guides.rubyonrails.org](https://guides.rubyonrails.org)

。 。 。 。 **Rails。**

## Task

```
rails generate scaffold Task name:string description:text
```

```
Controller: app/controllers/tasks_controller.rb
Test:      test/models/task_test.rb
          test/controllers/tasks_controller_test.rb
Routes:   resources :tasks added in routes.rb
Views:   app/views/tasks
          app/views/tasks/index.html.erb
          app/views/tasks/edit.html.erb
          app/views/tasks/show.html.erb
          app/views/tasks/new.html.erb
          app/views/tasks/_form.html.erb
Helper:  app/helpers/tasks_helper.rb
JS:      app/assets/javascripts/tasks.coffee
CSS:     app/assets/stylesheets/tasks.scss
          app/assets/stylesheets/scaffolds.scss
```

## scaffoldTask

```
rails destroy scaffold Task
```

## Rails

RailsActiveRecord ActiveRecordORM◦

ORMSQLSQL◦

## Rails

1.

```
$ rails app new MyApp --skip-active-record
```

2. Gemfile

```
gem 'mongoid', '~> 5.0'
```

3. bundle install◦

mongoidMongoDB - railsgem - ActiveRecordActiveModel ActiveRecord◦ ◦

- DataMapper

- 

## JSONRails API

Rails◦

## Rails 5API

```
rails new name-of-app --api
```

## Gemfileactive\_model\_serializers

```
gem 'active_model_serializers'
```

```
bundle install
```

```
ActiveModelSerializer:json_api
```

```
# config/initializers/active_model_serializer.rb
ActiveModelSerializers.config.adapter = :json_api
Mime::Type.register "application/json", :json, %w( text/x-json application/jsonrequest
application/vnd.api+json )
```

```
rails generate scaffold Task name:string description:text
```

## app / controllers / tasks\_controller.rb

```
Test:          test/models/task_test.rb
               test/controllers/tasks_controller_test.rb
Routes:        resources :tasks added in routes.rb
Migration:     db/migrate/_create_tasks.rb
Model:         app/models/task.rb
Serializer:    app/serializers/task_serializer.rb
Controller:    app/controllers/tasks_controller.rb
```

## Rails

### UbuntuRails

#### ubuntuRails

#### ubuntu

```
sudo apt-get update
sudo apt-get upgrade
```

### RubyRails

```
sudo apt-get install git-core curl zlib1g-dev build-essential libssl-dev libreadline-dev
libyaml-dev libsqlite3-dev sqlite3 libxml2-dev libxslt1-dev libcurl4-openssl-dev python-
software-properties libffi-dev
```

#### ruby◦ rbenv

```
git clone https://github.com/rbenv/rbenv.git ~/.rbenv
```

```
echo 'export PATH="$HOME/.rbenv/bin:$PATH"' >> ~/.bashrc
echo 'eval "$(rbenv init -)"' >> ~/.bashrc
```

## Ruby Build

```
git clone https://github.com/rbenv/ruby-build.git ~/.rbenv/plugins/ruby-build
echo 'export PATH="$HOME/.rbenv/plugins/ruby-build/bin:$PATH"' >> ~/.bashrc
```

## Shell

```
exec $SHELL
```

```
rbenv install 2.3.1
rbenv global 2.3.1
rbenv rehash
```

```
gem install rails
```

## Windows Rails

### 1 Ruby

Ruby◦ RubyRubyInstaller◦

- [rubyinstaller.org](http://rubyinstaller.org) Ruby Installer◦
- ◦ “RubyPATH”◦
- RubyWindowsRuby“Ruby”◦ ◦ ruby -v Enter Ruby◦

### 2 Ruby Development Kit

RubyRails◦ RailsWindows◦ Rails Gem::InstallError: The '[gem name]' native gem requires installed build tools.Gem::InstallError: The '[gem name]' native gem requires installed build tools.Ruby Development Kit◦

- [DevKit](#)
- ◦
- DevKit◦ C:\RubyDevKit◦ ◦

RubyDevKit◦

- DevKit◦ cd C:\RubyDevKit◦
- RubyDevKit◦ ruby dk.rb init◦ DevKitRuby◦ ruby dk.rb install◦

DevKitRuby◦

### 3 Rails

Rails◦ RailsRuby◦

```
gem install rails
```

Enter `gem Rails gem Rails Gem`.

#### 4 **Node.js**

Rails JavaScript. Node.js.

- Node.js.
- `node-v4.4.7.pkg`.
- `“”`.
- `“”`.
- RailsNode.js.

Windows “Ruby” “Ruby”.

**Ruby on Rails** <https://riptutorial.com/zh-TW/ruby-on-rails/topic/225/ruby-on-rails>

---

## 2: ActionCable

ActionCable Rails 4.x Rails 5. websockets.

### Examples

[]

```
# app/channels/appearance_channel.rb
class NotificationsChannel < ApplicationCable::Channel
  def subscribed
    stream_from "notifications"
  end

  def unsubscribed
  end

  def notify(data)
    ActionCable.server.broadcast "notifications", { title: 'New things!', body: data }
  end
end
```

### [] Coffeescript

---

## // Javascript// notifications.coffee

```
App.notifications = App.cable.subscriptions.create "NotificationsChannel",
  connected: ->
    # Called when the subscription is ready for use on the server
    $(document).on "change", "input", (e)=>
      @notify(e.target.value)

  disconnected: ->
    # Called when the subscription has been terminated by the server
    $(document).off "change", "input"

  received: (data) ->
    # Called when there's incoming data on the websocket for this channel
    $('body').append(data)

  notify: (data)->
    @perform('notify', data: data)
```

---

## app / assets / javascripts / application.js

```
//= require jquery
//= require jquery_ujs
//= require turbolinks
```

```
//= require_tree .
```

## app / assets / javascripts / cable.js

```
//= require action_cable
//= require_self
//= require_tree ./channels

(function() {
  this.App || (this.App = {});

  App.cable = ActionCable.createConsumer();

}).call(this);
```

```
# app/channels/application_cable/connection.rb
module ApplicationCable
  class Connection < ActionCable::Connection::Base
    identified_by :current_user

    def connect
      self.current_user = find_verified_user
      logger.add_tags 'ActionCable', current_user.id
      # Can replace current_user.id with usernames, ids, emails etc.
    end

    protected

    def find_verified_user
      if verified_user = env['warden'].user
        verified_user
      else
        reject_unauthorized_connection
      end
    end
  end
end
```

ActionCable <https://riptutorial.com/zh-TW/ruby-on-rails/topic/1498/actioncable>



# 3: ActionController

Action ControllerMVCC.◦

◦ ◦ ◦

## Examples

### JSONHTML

```
class UsersController < ApplicationController
  def index
    hashmap_or_array = [{ name: "foo", email: "foo@example.org" }]

    respond_to do |format|
      format.html { render html: "Hello World" }
      format.json { render json: hashmap_or_array }
    end
  end
end
```

```
resources :users, only: [:index]
```

/users

- /users/users.html Hello Worldhtml
- /users.json JSON

```
[
  {
    "name": "foo",
    "email": "foo@example.org"
  }
]
```

JSON format.html { render inline: "Hello World" }◦

```
class UsersController < ApplicationController
  def index
    respond_to do |format|
      format.html { render html: "Hello World" }
    end
  end
end
```

routes.rb

```
resources :users, only: [:index]
```

URL /usersHello World

HTTPURL?name=foo Ruby on Rails。 GETPOST。

```
class UsersController < ApplicationController
  def index
    respond_to do |format|
      format.html do
        if params[:name] == "john"
          render html: "Hello John"
        else
          render html: "Hello someone"
        end
      end
    end
  end
end
```

```
resources :users, only: [:index]
```

URL /users?name=john Hello John /users?name=whatever Hello someone

```
class UsersController < ApplicationController
  def index
    respond_to do |format|
      format.html do
        render html: "Hello #{ user_params[:name] } user_params[:sentence]"
      end
    end
  end

  private

  def user_params
    if params[:name] == "john"
      params.permit(:name, :sentence)
    else
      params.permit(:name)
    end
  end
end
```

。

/users?name=john&sentence=developerHello john developer /users?name=smith&sentence=spyHello smith  
:sentencejohn:sentence

```
resources :users, only: [:index]
```

```
class UsersController
  def index
    redirect_to "http://stackoverflow.com/"
  end
end
```

```
redirect_to :back
```

## Rails 5

```
redirect_back fallback_location: "http://stackoverflow.com/"
```

```
HTTP_REFERER: fallback_location
```

```
resources :users, only: [:index]
```

```
class UsersController < ApplicationController
  def index
    respond_to do |format|
      format.html { render }
    end
  end
end
```

app/users/index.html.erb ◦

```
Hello <strong>World</strong>
```

## “Hello World ”

```
render "pages/home"
```

app/views/pages/home.html.erb ◦

```
class UsersController < ApplicationController
  def index
    @name = "john"

    respond_to do |format|
      format.html { render }
    end
  end
end
```

app/views/users/index.html.erb@name

```
Hello <strong><%= @name %></strong>
```

“ ”

render Rails ◦

```
class UsersController < ApplicationController
  def index
    respond_to do |format|
      format.html { render }
    end
  end
end
```

```
end
end
end
```

```
class UsersController < ApplicationController
  def index
    respond_to do |format|
      format.html
    end
  end
end
end
```

Railsapp/views/users/index.html.erb ◦

## 404

```
class ApplicationController < ActionController::Base

  # ... your other stuff here

  rescue_from ActiveRecord::RecordNotFound do |exception|
    redirect_to root_path, 404, alert: 'Record not found'
  end
end
```

## REST

```
class PostsController < ApplicationController
  before_action :set_post, only: [:show, :edit, :update, :destroy]

  def index
    @posts = Post.all
  end

  def show
  end

  def new
    @post = Post.new
  end

  def edit
  end

  def create
    @post = Post.new(post_params)

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

```

    end
  end
end

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

def destroy
  @post.destroy
  respond_to do |format|
    format.html { redirect_to posts_url, notice: 'Post was successfully destroyed.' }
    format.json { head :no_content }
  end
end

private

def set_post
  @post = Post.find(params[:id])
end

def post_params
  params.require(:post).permit(:title, :body, :author)
end
end

```

## “Rails.

app/controllers/application\_controller.rb

```

class ApplicationController < ActionController::Base
  protect_from_forgery with: :exception
end

```

rescue\_from

```

class ApplicationController < ActionController::Base
  protect_from_forgery with: :exception
  rescue_from ActiveRecord::RecordNotFound, with: :record_not_found

  private

  def record_not_found
    render html: "Record <strong>not found</strong>", status: 404
  end
end

```

ExceptionStandardError**Rails**

ApplicationController.any

/

```
class ApplicationController < ActionController::Base
  before_action :authenticate_user!

  def authenticate_user!
    redirect_to some_path unless user_signed_in?
  end
end
```

o o

o o

“” o o o o

o

o o o

Rack

o o o o yield o yieldbefore actionyieldafter action o yield - false

around

```
around_filter :catch_exceptions

private
def catch_exceptions
  begin
    yield
  rescue Exception => e
    logger.debug "Caught exception! #{e.message}"
  end
end
```

o o

:only:except

```
class ProductsController < ApplicationController
  before_action :set_product, only: [:show, :edit, :update]

  # ... controller actions

  # Define your filters as controller private methods
  private

  def set_product
    @product = Product.find(params[:id])
  end
end
```

```
end
```

```
class ApplicationController < ActionController::Base
  before_action :authenticate_user!

  def authenticate_user!
    redirect_to some_path unless user_signed_in?
  end
end

class HomeController < ApplicationController
  skip_before_action :authenticate_user!, only: [:index]

  def index
  end
end
```

```
namespace "" do
  admin do
```

```
# config/routes.rb
namespace :admin do
  resources :products
end

# app/controllers/admin_controller.rb
class AdminController < ApplicationController
  before_action :authenticate_admin_user!

  private

  def authenticate_admin_user!
    redirect_to root_path unless current_user.admin?
  end
end

# app/controllers/admin/products_controller.rb
class Admin::ProductsController < AdminController
  # This controller will inherit :authenticate_admin_user! filter
end
```

**Rails 4.x** before\_filter before\_action before\_filter **Rails 5.0.0.1**

Rails

app

```
rails generate controller NAME [action action] [options]
```

```
rails rails generate
```

```
Product#index#show
```

```
rails generate controller products index show
```

```
app/controllers/products_controller.rb
```

```
class ProductsController < ApplicationController
  def index
    end

  def show
    end
end
```

app/views/products/index.html.erb show.html.erb *'slim index.html.slim show.html.slim*

routes

```
# config/routes.rb
get 'products/show'
get 'products/index'
```

**Rails** app/helpers/products\_helper.rb app/assets/javascripts/products.js

app/assets/stylesheets/products.css ◦ Gemfile Coffeescript Sass products.coffee products.sass ◦

**Rails** ◦

**Rails**

--no---skip

```
rails generate controller products index show --no-assets --no-helper
```

assetshelper

**namespace** NAME

```
rails generate controller admin/products
```

app/controllers/admin/products\_controller.rb

**Rails RESTful**

```
rails generate scaffold_controller MODEL_NAME # available from Rails 4
rails generate scaffold_controller Product
```

**redirect\_to ActiveRecord :: RecordNotFound**

**RecordNotFound**

```
class ApplicationController < ActionController::Base

  # your other stuff

  rescue_from ActiveRecord::RecordNotFound do |exception|
    redirect_to root_path, 404, alert: I18n.t("errors.record_not_found")
  end
end
```



ActionController <https://riptutorial.com/zh-TW/ruby-on-rails/topic/2838/actioncontroller>

---

## 4: ActiveJob

Active Job ◦ ◦ ◦

### Examples

```
class GuestsCleanupJob < ApplicationJob
  queue_as :default

  def perform(*guests)
    # Do something later
  end
end
```

```
# Enqueue a job to be performed as soon as the queuing system is free.
GuestsCleanupJob.perform_later guest
```

ActiveJob <https://riptutorial.com/zh-TW/ruby-on-rails/topic/8996/activejob>

# 5: ActiveRecord

SQL. . . .

## Examples

```
ActiveRecord::Base.transaction do
  david.withdrawal(100)
  mary.deposit(100)
end
```

◦ ROLLBACK. ◦

## ActiveRecord

ActiveRecord. ◦

### Account

```
Account.transaction do
  balance.save!
  account.save!
end
```

◦

```
balance.transaction do
  balance.save!
  account.save!
end
```

◦ ◦

```
Student.transaction do
  Course.transaction do
    course.enroll(student)
    student.units += course.units
  end
end
```

ActiveRecord.◦

**#save#destroy**◦ after\_\*◦

◦ after\_save◦ after\_commit◦

after\_commit◦after\_rollback◦ ◦

after\_commit◦ after\_rollback◦

◦ after\_commit◦

ActiveRecord::Base.transactionActiveRecord::Rollback◦ .transaction◦ ActiveRecord::Rollback  
ActiveRecord::Rollback◦

```
class BooksController < ActionController::Base
  def create
    Book.transaction do
      book = Book.new(params[:book])
      book.save!
      if today_is_friday?
        # The system must fail on Friday so that our support department
        # won't be out of job. We silently rollback this transaction
        # without telling the user.
        raise ActiveRecord::Rollback, "Call tech support!"
      end
    end
    # ActiveRecord::Rollback is the only exception that won't be passed on
    # by ActiveRecord::Base.transaction, so this line will still be reached
    # even on Friday.
    redirect_to root_url
  end
end
```

**ActiveRecord** <https://riptutorial.com/zh-TW/ruby-on-rails/topic/4688/activerecord>

# 6: ActiveRecord

ActiveRecord。

## Examples

### Active Record Transactions

Active Record TransactionsModelModel。。

```
User.transaction do
  account.save!
  profile.save!
  print "All saves success, returning 1"
  return 1
end
rescue_from ActiveRecord::RecordInvalid do |exception|
  print "Exception thrown, transaction rolledback"
  render_error "failure", exception.record.errors.full_messages.to_sentence
end
```

save with a bangrescue。。

saveraise ActiveRecord::Rollback。。

```
User.transaction do
  if account.save && profile.save
    print "All saves success, returning 1"
    return 1
  else
    raise ActiveRecord::Rollback
  end
end
print "Transaction Rolled Back"
```

ActiveRecord <https://riptutorial.com/zh-TW/ruby-on-rails/topic/9326/activerecord>

# 7: ActiveRecord

ActiveRecordMVC。 Object R elational M apper ORM 。

ActiveRecord。 ActiveRecord。

## Examples

。

whereActiveRecord。

where。

```
class Person < ActiveRecord::Base
  #attribute :first_name, :string
  #attribute :last_name, :string
end
```

Sven

```
people = Person.where(first_name: 'Sven')
people.to_sql # "SELECT * FROM people WHERE first_name='Sven'"
```

SvenSchrodinger

```
people = Person.where(first_name: 'Sven', last_name: 'Schrodinger')
people.to_sql # "SELECT * FROM people WHERE first_name='Sven' AND last_name='Schrodinger'"
```

sqlfirst\_namelast\_name。

## OR

first\_name == 'Bruce'OR last\_name == 'Wayne'

```
User.where('first_name = ? or last_name = ?', 'Bruce', 'Wayne')
# SELECT "users".* FROM "users" WHERE (first_name = 'Bruce' or last_name = 'Wayne')
```

。

ActiveRecordwhereWHERE column\_name IN (a, b, c, ...)SQL 。

```
class Person < ActiveRecord::Base
  #attribute :first_name, :string
  #attribute :last_name, :string
end

people = Person.where(first_name: ['Mark', 'Mary'])
```

```
people.to_sql # "SELECT * FROM people WHERE first_name IN ('Mark', 'Mary')"
```

nil SQLnull

```
people = Person.where(first_name: ['Mark', 'Mary', nil])
people.to_sql # "SELECT * FROM people WHERE first_name IN ('Mark', 'Mary') OR first_name IS NULL"
```

ActiveRecord◦

scopescope ◦

```
class Person < ActiveRecord::Base
  #attribute :first_name, :string
  #attribute :last_name, :string
  #attribute :age, :integer

  # define a scope to get all people under 17
  scope :minors, -> { where(age: 0..17) }

  # define a scope to search a person by last name
  scope :with_last_name, ->(name) { where(last_name: name) }
end
```

```
minors = Person.minors
```

```
peters_children = Person.minors.with_last_name('Peters')
```

where

```
mary_smith = Person.with_last_name('Smith').where(first_name: 'Mary')
```

◦

```
scope :with_last_name, ->(name) { where(name: name) }

# This ^ is the same as this:

def self.with_last_name(name)
  where(name: name)
end
```

◦

scope scope **-defined scope** ActiveRecord::Relation nil◦ ◦

## where.not

wherewhere.not

```

class Person < ApplicationRecord
  #attribute :first_name, :string
end

people = Person.where.not(first_name: ['Mark', 'Mary'])
# => SELECT "people".* FROM "people" WHERE "people"."first_name" NOT IN ('Mark', 'Mary')

```

## ActiveRecord 4.0

### .order ActiveRecord

```

User.order(:created_at)
#=> => [#<User id: 2, created_at: "2015-08-12 21:36:23">, #<User id: 11, created_at: "2015-08-15 10:21:48">]

```

o

```

User.order(created_at: :asc)
#=> => [#<User id: 2, created_at: "2015-08-12 21:36:23">, #<User id: 11, created_at: "2015-08-15 10:21:48">]

```

```

User.order(created_at: :desc)
#=> [#<User id: 7585, created_at: "2016-07-13 17:15:27">, #<User id: 7583, created_at: "2016-07-13 16:51:18">]

```

### .order

```

User.order("created_at DESC")
#=> [#<User id: 7585, created_at: "2016-07-13 17:15:27">, #<User id: 7583, created_at: "2016-07-13 16:51:18">]

```

## SQL roleusers

```

Class User < ActiveRecord::Base
  belongs_to :role
end

Class Role < ActiveRecord::Base
  has_many :users
end

User.includes(:role).order("roles.name ASC")

```

## order Arel

```

User.includes(:role).order(User.arel_table[:name].asc)

```

## ActiveRecord Bang

### ActiveRecord false! / ActiveRecord

```

Class User < ActiveRecord::Base

```



```
  validates :last_name, presence: true
end

User.create!(first_name: "John")
#=> ActiveRecord::RecordInvalid: Validation failed: Last name can't be blank
```

## ! ActiveRecord

- .create!
- .take!
- .first!
- .last!
- .find\_by!
- .find\_or\_create\_by!
- #save!
- #update!
- AR

## .find\_by

find\_by◦

first\_nameUser

```
User.find_by(first_name: "John")
#=> #<User id: 2005, first_name: "John", last_name: "Smith">
```

find\_by◦ nilfind ◦

find\_by!findActiveRecord::RecordNotFound◦

◦

## ActiveRecord.delete\_all◦ ◦ .delete\_all before\_\*after\_destroy◦

```
User.delete_all
#=> 39 <-- .delete_all return the number of rows deleted

User.where(name: "John").delete_all
```

## ActiveRecord

ActiveRecordLIKEILIKE◦ ◦

ActiveRecordArel matches

```
addresses = Address.arel_table
Address.where(addresses[:address].matches("%street%"))
```

AreILIKEILIKE◦

## Railsfirstlast◦

usersfirst

```
User.first
```

sql

```
SELECT `users`.* FROM `users` ORDER BY `users`.`id` ASC LIMIT 1
```

```
#<User:0x007f8a6db09920 id: 1, first_name: foo, created_at: Thu, 16 Jun 2016 21:43:03 UTC +00:00, updated_at: Thu, 16 Jun 2016 21:43:03 UTC +00:00 >
```

userslast

```
User.last
```

sql

```
SELECT `users`.* FROM `users` ORDER BY `users`.`id` DESC LIMIT 1
```

```
#<User:0x007f8a6db09920 id: 10, first_name: bar, created_at: Thu, 16 Jun 2016 21:43:03 UTC +00:00, updated_at: Thu, 16 Jun 2016 21:43:03 UTC +00:00 >
```

## firstlastLIMIT◦

```
User.first(5)
```

sql◦

```
SELECT "users".* FROM "users" ORDER BY "users"."id" ASC LIMIT 5
```

```
User.last(5)
```

sql◦

```
SELECT "users".* FROM "users" ORDER BY "users"."id" DESC LIMIT 5
```

## .group.count

Productcategory◦

```
Product.select(:category).group(:category)
```

```
SELECT "product"."category" FROM "product" GROUP BY "product"."category"
```

- categories◦

```
Product.select(:category).group(:category).count
```

```
SELECT COUNT("products"."category") AS count_categories, "products"."category" AS products_category FROM "products" GROUP BY "products"."category"
```

## .distinct.uniq

```
.distinct()
```

```
Customers.select(:country).distinct
```

```
SELECT DISTINCT "customers"."country" FROM "customers"
```

.uniq()◦ **Rails 5.05.1** Rails◦ “unique◦ distinct SQL◦

```
joins()◦
```

```
User.joins(:posts)
```

## SQL

```
"SELECT "users".* FROM "users" INNER JOIN "posts" ON "posts"."user_id" = "users"."id"
```

```
User.joins(:posts).where(posts: { title: "Hello world" })
```

- :has\_many joins()◦ ◦

```
joins
```

```
User.joins(posts: :images).where(images: { caption: 'First post' })
```

```
"SELECT "users".* FROM "users" INNER JOIN "posts" ON "posts"."user_id" = "users"."id" INNER JOIN "images" ON "images"."post_id" = "images"."id"
```

## ActiveRecord with includes◦ ◦

```
@authors = Author.includes(:books).where(books: { bestseller: true })
```

```
# this will print results without additional db hitting
@authors.each do |author|
  author.books.each do |book|
    puts book.title
  end
end
```

```
Author.joins(:books).where(books: { bestseller: true } ) ◦ joins ◦
```

```
@authors = Author.joins(:books).where(books: { bestseller: true } )  
  
# this will print results without additional queries  
@authors.each { |author| puts author.name }  
  
# this will print results with additional db queries  
@authors.each do |author|  
  author.books.each do |book|  
    puts book.title  
  end  
end
```

```
limitoffset◦
```

```
User.limit(3) #returns first three records
```

**sql◦**

```
"SELECT `users`.* FROM `users` LIMIT 3"
```

◦

```
User.limit(5).offset(30) #returns 5 records starting from 31th i.e from 31 to 35
```

**sql◦**

```
"SELECT `users`.* FROM `users` LIMIT 5 OFFSET 30"
```

**ActiveRecord** <https://riptutorial.com/zh-TW/ruby-on-rails/topic/2154/activerecord>

# 8: ActiveRecord

## Examples

### Rails

app/models

ActiveRecordActiveRecord::Base

```
class User < ActiveRecord::Base
end
```

app/models/

```
# user
app/models/user.rb

# SomeModel
app/models/some_model.rb
```

### ActiveRecord

```
# Searches the User with ID 1
User.find(1)
```

◦

rails g model column\_name1:data\_type1, column\_name2:data\_type2, ...

```
rails g model column_name:data_type, model_name:references
```

### Ruby on Rails model ActiveRecord rails generate model

```
$ rails g model user
```

app/models

- test/models/user\_test.rb
- test/fixtures/users.yml
- db/migrate/XXX\_create\_users.rb

◦

```
$ rails g model user email:string sign_in_count:integer birthday:date
```

email sign\_in\_count birthday

---

```
rails generate migration AddTitleToCategories title:string
```

```
titlecategories
```

```
class AddTitleToCategories < ActiveRecord::Migration[5.0]
  def change
    add_column :categories, :title, :string
  end
end
```

```
rails generate migration RemoveTitleFromCategories title:string
```

```
categoryestitle
```

```
class RemoveTitleFromCategories < ActiveRecord::Migration[5.0]
  def change
    remove_column :categories, :title, :string
  end
end
```

```
:string ◦
```

---

```
rails g CreateUsers name bio
```

### RailsCreate◦

```
class CreateUsers < ActiveRecord::Migration
  def change
    create_table :users do |t|
      t.string :name
      t.string :bio
    end
  end
end
```

```
string ◦
```

---

```
rails g CreateJoinTableParticipation user:references group:references
```

### RailsJoinTable◦ ◦

```
class CreateJoinTableParticipation < ActiveRecord::Migration
  def change
    create_join_table :users, :groups do |t|
      # t.index [:user_id, :group_id]
      # t.index [:group_id, :user_id]
    end
  end
end
```

```
end
end
```

indexindex°

CreateJoinTableParticipationCreate° create\_table °

- (Add|Remove)<ignored> (To|From) <table\_name>
- <ignored>JoinTable<ignored>
- Create<table\_name>

°

30°

```
class Listing < ApplicationRecord
  after_create :set_expiry_date

  private

  def set_expiry_date
    expiry_date = Date.today + 30.days
    self.update_column(:expires_on, expiry_date)
  end
end
```

- before\_validation
- after\_validation
- before\_save
- around\_save
- before\_create
- around\_create
- after\_create
- after\_save
- after\_commit / after\_rollback
  
- before\_validation
- after\_validation
- before\_save
- around\_save
- before\_update
- around\_update
- after\_update
- after\_save
- after\_commit / after\_rollback
  
- before\_destroy

- `around_destroy`
- `after_destroy`
- `after_commit / after_rollback`

*after\_save after\_create after\_update*

`has_and_belongs_to_many create_table TagsProjects has_and_belongs_to_many`

```
class CreateProjectsTagsJoinTableMigration < ActiveRecord::Migration
  def change
    create_table :projects_tags, id: false do |t|
      t.integer :project_id
      t.integer :tag_id
    end
  end
end
```

◦ **P**roject precedes `AGSprojects_tags`

ID◦ `id: false`

Rails◦

Active Record◦ `apprails console` Rails◦ ◦

Users `name:string column email:string`

```
User.create name: "John", email: "john@example.com"
```

```
User.find_by email: "john@example.com"
```

```
User.first
```

User

```
class User < ActiveRecord::Base
  end
```

`id = 1 first_name last_name`

```
user = User.find(1)
user.update(first_name: 'Kashif', last_name: 'Liaqat')
```

`update true false`

ActiveRecord <https://riptutorial.com/zh-TW/ruby-on-rails/topic/828/activerecord>



# 9: ActiveRecord

<code>:primary_key</code>	
<code>:string</code>	<code>◦ limit◦</code>
<code>:text</code>	<code>◦ limit◦</code>
<code>:integer</code>	<code>◦ limit◦</code>
<code>:bigint</code>	
<code>:float</code>	
<code>:decimal</code>	<code>◦ precisionscale◦</code>
<code>:numeric</code>	<code>precisionscale◦</code>
<code>:datetime</code>	<code>DateTime/◦</code>
<code>:time</code>	<code>◦</code>
<code>:date</code>	<code>◦</code>
<code>:binary</code>	<code>◦ limit◦</code>
<code>:boolean</code>	

- `db/migrate/◦ UTC YYYYMMDDHHMMSS_create_products.rb ◦`
- `rails generaterails g ◦`
- `a :type◦`

## Examples

```
db:migrate:updb:migrate:down ◦
```

5

```
rake db:migrate:up VERSION=20090408054555
```

5

```
rails db:migrate:up VERSION=20090408054555
```

5

```
rake db:migrate:down VERSION=20090408054555
```

5

```
rails db:migrate:down VERSION=20090408054555
```

◦ 20160515085959\_add\_name\_to\_users.rb 20160515085959◦

studentscourses

```
$ rails g migration CreateJoinTableStudentCourse student course
```

```
class CreateJoinTableStudentCourse < ActiveRecord::Migration[5.0]
  def change
    create_join_table :students, :courses do |t|
      # t.index [:student_id, :course_id]
      # t.index [:course_id, :student_id]
    end
  end
end
```

testshell

```
rake db:migrate RAILS_ENV=test
```

5

## Rails 5.0railsrake

```
rails db:migrate RAILS_ENV=test
```

username

```
rails generate migration AddNameToUsers name
```

```
class AddNameToUsers < ActiveRecord::Migration[5.0]
  def change
    add_column :users, :name, :string
  end
end
```

AddXXXToTABLE\_NAMEadd\_column◦

emailusers

```
rails generate migration AddEmailToUsers email:string:index
```

```
class AddEmailToUsers < ActiveRecord::Migration[5.0]
  def change
    add_column :users, :email, :string
  end
end
```

```
    add_index :users, :email
  end
end
```

username

```
rails generate migration RemoveNameFromUsers name:string
```

```
class RemoveNameFromUsers < ActiveRecord::Migration[5.0]
  def change
    remove_column :users, :name, :string
  end
end
```

RemoveXXXXFromYYYremove\_column°

:string remove\_column° °

teamusers

```
$ rails generate migration AddTeamRefToUsers team:references
```

```
class AddTeamRefToUsers < ActiveRecord::Migration[5.0]
  def change
    add_reference :users, :team, foreign_key: true
  end
end
```

usersteam\_id°

indexforeign\_key rails generate migration AddTeamRefToUsers team:references:index °

```
class AddTeamRefToUsers < ActiveRecord::Migration
  def change
    add_reference :users, :team, index: true
    add_foreign_key :users, :teams
  end
end
```

**Rails:**(PostPostAuthorUser

```
class AddAuthorRefToPosts < ActiveRecord::Migration
  def change
    add_reference :posts, :author, references: :users, index: true
  end
end
```

namesalaryusers

```
rails generate migration CreateUsers name:string salary:decimal
```

```
class CreateUsers < ActiveRecord::Migration[5.0]
  def change
    create_table :users do |t|
      t.string :name
      t.decimal :salary
    end
  end
end
```

CreateXXXXXX ◦

rails generate migration field:type ◦

```
rails generate migration NAME [field[:type][:index] field[:type][:index]] [options]
```

username salaryemail

```
rails generate migration AddDetailsToUsers name:string salary:decimal email:string
```

```
class AddDetailsToUsers < ActiveRecord::Migration[5.0]
  def change
    add_column :users, :name, :string
    add_column :users, :salary, :decimal
    add_column :users, :email, :string
  end
end
```

5

```
rake db:migrate
```

5

```
rails db:migrate
```

◦ version number ◦

5

```
rake db:migrate VERSION=20080906120000
```

5

```
rails db:migrate VERSION=20080906120000
```

changedownrollback ◦

5

```
rake db:rollback
```

5

```
rails db:rollback
```

3

5

```
rake db:rollback STEP=3
```

5

```
rails db:rollback STEP=3
```

STEP◦

5

```
rake db:rollback VERSION=0
```

5

```
rails db:rollback VERSION=0
```

change\_table ◦

```
change_table :orders do |t|
  t.remove :ordered_at # removes column ordered_at
  t.string :skew_number # adds a new column
  t.index :skew_number #creates an index
  t.rename :location, :state #renames location column to state
end
```

orders ◦

1. t.remove :ordered\_atordered\_atorders ◦
2. t.string :skew\_numberordersskew\_number◦
3. t.index :skew\_numberordersskew\_number◦
4. t.rename :location, :stateorderslocationstate ◦

emailusers

```
rails generate migration AddEmailToUsers email:string:uniq
```

```
class AddEmailToUsers < ActiveRecord::Migration[5.0]
  def change
    add_column :users, :email, :string
    add_index :users, :email, unique: true
  end
end
```

## Rails

```
rails g migration change_column_in_table
```

db/migration **timestamp**

```
def change
  change_column(:table_name, :column_name, :new_type)
end
```

-

◦ changeupdown

```
def up
  change_column :my_table, :my_column, :new_type
end

def down
  change_column :my_table, :my_column, :old_type
end
```

redo ◦ rollbackmigrate ◦

**5**

```
rake db:migrate:redo
```

**5**

```
rails db:migrate:redo
```

STEP ◦

**3**

**5**

```
rake db:migrate:redo STEP=3
```

**5**

```
rails db:migrate:redo STEP=3
```

adminusersfalse ◦

```
class AddDetailsToUsers < ActiveRecord::Migration[5.0]
  def change
    add_column :users, :admin, :boolean, default: false
  end
end
```

## PostgreSQL ◦ ◦

1. `add_column -migration`
2. `rake ◦ /◦`
3. `change_column`

`null:null`

```
class AddPriceToProducts < ActiveRecord::Migration
  def change
    add_column :products, :float, null: false
  end
end
```

### 3.0 5.0

```
rake db:migrate:status
```

## 5

```
rails db:migrate:status
```

Status	Migration ID	Migration Name
up	20140711185212	Create documentation pages
up	20140724111844	Create nifty attachments table
up	20140724114255	Create documentation screenshots
up	20160213170731	Create owners
up	20160218214551	Create users
up	20160221162159	***** NO FILE *****
up	20160222231219	***** NO FILE *****

`up down◦`

## hstore

Hstore◦ PostgreSQL◦

```
class CreatePages < ActiveRecord::Migration[5.0]
  def change
    create_table :pages do |t|
      enable_extension 'hstore' unless extension_enabled?('hstore')
      t.hstore :settings
      t.timestamps
    end
  end
end
```

◦ `add_reference◦`

```
class AddParentPages < ActiveRecord::Migration[5.0]
  def change
```

```
    add_reference :pages, :pages
  end
end
```

pages\_id ◦ ◦

```
class AddParentPages < ActiveRecord::Migration[5.0]
  def change
    add_column :pages, :parent_id, :integer, null: true, index: true
    add_foreign_key :pages, :pages, column: :parent_id
  end
end
```

## PostgreSQLarray ◦ RailsPostgreSQLRuby ◦

array

```
create_table :products do |t|
  t.string :name
  t.text :colors, array: true, default: []
end
```

array

```
add_column :products, :colors, array: true, default: []
```

array

```
add_index :products, :colors, using: 'gin'
```

## NOT NULL

company\_idusersNOT NULL ◦ users ◦

```
class AddCompanyIdToUsers < ActiveRecord::Migration
  def up
    # add the column with NULL allowed
    add_column :users, :company_id, :integer

    # make sure every row has a value
    User.find_each do |user|
      # find the appropriate company record for the user
      # according to your business logic
      company = Company.first
      user.update!(company_id: company.id)
    end

    # add NOT NULL constraint
    change_column_null :users, :company_id, false
  end

  # Migrations that manipulate data must use up/down instead of change
  def down
    remove_column :users, :company_id
  end
end
```



```
end  
end
```

ActiveRecord <https://riptutorial.com/zh-TW/ruby-on-rails/topic/1087/activerecord>

---

# 10: ActiveRecord

## Examples

```
user_one = User.find(1)
user_two = User.find(1)

user_one.name = "John"
user_one.save
# Run at the same instance
user_two.name = "Doe"
user_two.save # Raises a ActiveRecord::StaleObjectError
```

```
appointment = Appointment.find(5)
appointment.lock!
#no other users can read this appointment,
#they have to wait until the lock is released
appointment.save!
#lock is released, other users can read this account
```

ActiveRecord <https://riptutorial.com/zh-TW/ruby-on-rails/topic/3866/activerecord>

# 11: ActiveRecord

## Examples

`belongs_to`

```
class Post < ApplicationRecord
  belongs_to :user
end
```

```
create_table "posts", force: :cascade do |t|
  t.integer "user_id", limit: 4
end
```

## HAS\_ONE

`has_one`

```
class User < ApplicationRecord
  has_one :account
end
```

`Active Record` `has_one`

`accounts` `user_id` `null` `null`

```
user = User.first
user.build_account(name: "sample")
user.save [Saves it successfully, and creates an entry in accounts table with user_id 1]
user.build_account(name: "sample1") [automatically makes the previous entry's foreign key null]
user.save [creates the new account with name sample 1 and user_id 1]
```

`has_many` `belongs_to`

◦

```
class User < ApplicationRecord
  has_many :posts
end
```

`Post` `belongs_to`; `User`

`User`

```
class User < ApplicationRecord
  has_many :published_posts, -> { where("posts.published IS TRUE") }, class_name: "Post"
end
```

## ActiveRecord.

```
class Human < ActiveRecord::Base
  has_one :address, :as => :addressable
end

class Company < ActiveRecord::Base
  has_one :address, :as => :addressable
end

class Address < ActiveRecord::Base
  belongs_to :addressable, :polymorphic => true
end
```

◦

```
class Address < ActiveRecord::Base
  belongs_to :human
  belongs_to :company
end
```

## has\_many

has\_many :throughmany-to-many◦ ◦

◦

```
class Physician < ApplicationRecord
  has_many :appointments
  has_many :patients, through: :appointments
end

class Appointment < ApplicationRecord
  belongs_to :physician
  belongs_to :patient
end

class Patient < ApplicationRecord
  has_many :appointments
  has_many :physicians, through: :appointments
end
```

## has\_one

has\_one :throughone-to-one◦ ◦

supplieraccount

```
class Supplier < ApplicationRecord
  has_one :account
  has_one :account_history, through: :account
end

class Account < ApplicationRecord
```

```

  belongs_to :supplier
  has_one :account_history
end

class AccountHistory < ApplicationRecord
  belongs_to :account
end

```

## has\_and\_belongs\_to\_many

has\_and\_belongs\_to\_many many-to-many°

assembliesparts

```

class Assembly < ApplicationRecord
  has_and_belongs_to_many :parts
end

class Part < ApplicationRecord
  has_and_belongs_to_many :assemblies
end

```

° °

°

```
rails g model friendship user_id:references friend_id:integer
```

;

```

class User < ActiveRecord::Base
  has_many :friendships
  has_many :friends, :through => :friendships
  has_many :inverse_friendships, :class_name => "Friendship", :foreign_key => "friend_id"
  has_many :inverse_friends, :through => :inverse_friendships, :source => :user
end

```

;

```

class Friendship < ActiveRecord::Base
  belongs_to :user
  belongs_to :friend, :class_name => "User"
end

```

**ActiveRecord** <https://riptutorial.com/zh-TW/ruby-on-rails/topic/1820/activerecord>

# 12: ActiveRecord

## Examples

◦

```
class Player < ApplicationRecord
  validates :points, numericality: true
  validates :games_played, numericality: { only_integer: true }
end
```

:only\_integer

- :greater\_than - ◦ "{count}"◦
- :greater\_than\_or\_equal\_to - ◦ "{count}"◦
- :equal\_to - ◦ "{count}"◦
- :less\_than - ◦ "{count}"◦
- :less\_than\_or\_equal\_to - ◦ "{count}"◦
- :other\_than - ◦ "{count}"◦
- :odd - true◦ ""◦
- :even - true◦ ""◦

nil◦ allow\_niltrue◦

◦

```
class Account < ApplicationRecord
  validates :email, uniqueness: true
end
```

:scope

```
class Holiday < ApplicationRecord
  validates :name, uniqueness: { scope: :year,
    message: "should happen once per year" }
end
```

:case\_sensitive◦ true◦

```
class Person < ApplicationRecord
  validates :name, uniqueness: { case_sensitive: false }
end
```

◦

```
class Person < ApplicationRecord
  validates :name, presence: true
```

```
end

Person.create(name: "John").valid? # => true
Person.create(name: nil).valid? # => false
```

absence◦ present?nil◦

```
class Person < ApplicationRecord
  validates :name, :login, :email, absence: true
end
```

boolean false◦

```
validates :attribute, inclusion: [true, false]
```

◦ ◦

- 
- decrement\_counter
- 
- increment\_counter
- 
- 
- 
- update\_attribute
- update\_column
- update\_columns
- update\_counters

validatesave

```
User.save(validate: false)
```

```
class Person < ApplicationRecord
  validates :name, length: { minimum: 2 }
  validates :bio, length: { maximum: 500 }
  validates :password, length: { in: 6..20 }
  validates :registration_number, length: { is: 6 }
end
```

- :minimum - ◦
- :maximum - ◦
- :in :within - ◦ ◦
- :is - ◦

◦ with\_options◦

```
class User < ApplicationRecord
  with_options if: :is_admin? do |admin|
```

```

    admin.validates :password, length: { minimum: 10 }
    admin.validates :email, presence: true
  end
end

```

## :: is\_adminwith\_options

ActiveModel::ValidatorActiveModel::EachValidator◊

### ActiveModel::Validatorvalidates\_with

validate◊ validates\_with◊

```

# app/validators/starts_with_a_validator.rb
class StartsWithAValidator < ActiveModel::Validator
  def validate(record)
    unless record.name.starts_with? 'A'
      record.errors[:name] << 'Need a name starting with A please!'
    end
  end
end

class Person < ApplicationRecord
  validates_with StartsWithAValidator
end

```

### ActiveModel::EachValidatorvalidate

validateActiveModel::EachValidatorvalidate\_each record attributevalue

```

class EmailValidator < ActiveModel::EachValidator
  def validate_each(record, attribute, value)
    unless value =~ /\A([^\s]+)@((?:[-a-z0-9]+\.)+[a-z]{2,})\z/i
      record.errors[attribute] << (options[:message] || 'is not an email')
    end
  end
end

class Person < ApplicationRecord
  validates :email, presence: true, email: true
end

```

## Rails◊

formatwith◊

```

class User < ApplicationRecord
  validates :name, format: { with: /\A\w{6,10}\z/ }
end

```

with:◊

```
PHONE_REGEX = /\A(\d{3})\d{3}-\d{4}\z/
```



```
validates :phone, format: { with: PHONE_REGEX }
```

is invalid ◦ :message◦

```
validates :bio, format: { with: /\A\D+\z/, message: "Numbers are not allowed" }
```

without:

inclusion: **helper**◦ :in:within◦

```
class Country < ApplicationRecord
  validates :continent, inclusion: { in: %w(Africa Antartica Asia Australia
                                           Europe North America South America) }
end
```

exclusion: **helper**

```
class User < ApplicationRecord
  validates :name, exclusion: { in: %w(admin administrator owner) }
end
```

◦

```
class User < ApplicationRecord
  validates :name, presence: true, if: :admin?

  def admin?
    conditional here that returns boolean value
  end
end
```

## Proc

```
class User < ApplicationRecord
  validates :first_name, presence: true, if: Proc.new { |user| user.last_name.blank? }
end
```

unless

```
class User < ApplicationRecord
  validates :first_name, presence: true, unless: Proc.new { |user| user.last_name.present? }
end
```

instance\_eval

```
class User < ApplicationRecord
  validates :first_name, presence: true, if: 'last_name.blank?'
end
```

◦ ◦ `_confirmation`

```
class Person < ApplicationRecord
  validates :email, confirmation: true
end
```

email\_confirmation<sup>nil</sup>

◦

```
class Person < ApplicationRecord
  validates :email, confirmation: true
  validates :email_confirmation, presence: true
end
```

## on

:on ◦ ◦

```
class Person < ApplicationRecord
  # it will be possible to update email with a duplicated value
  validates :email, uniqueness: true, on: :create

  # it will be possible to create the record with a non-numerical age
  validates :age, numericality: true, on: :update

  # the default (validates on both create and update)
  validates :name, presence: true
end
```

**ActiveRecord** <https://riptutorial.com/zh-TW/ruby-on-rails/topic/2105/activerecord>

---

# 13: CanCan

[CanCanRails](#) ◦ ◦

[CanCanGem](#) ◦ [CanCan](#) ◦

## Examples

### CanCan

[CanCanRuby on Rails](#) ◦ [CanCanCanCanCan](#) ◦

[Ability](#) ◦

[CanCanCan gem](#) [Gemfile](#)

```
gem 'cancancan'
```

```
# app/models/ability.rb
class Ability
  include CanCan::Ability

  def initialize(user)
    end
  end
end
```

[load\\_and\\_authorize\\_resource](#)

```
class ArticlesController < ApplicationController
  load_and_authorize_resource

  def show
    # @article is already loaded and authorized
  end
end
```

[authorize!](#)

```
def show
  @article = Article.find(params[:id])
  authorize! :read, @article
end
```

[can?](#)

```
<% if can? :update, @article %>
  <%= link_to "Edit", edit_article_path(@article) %>
<% end %>
```

[current\\_user](#) ◦

Ability cannot Ability

```
class Ability
  include CanCan::Ability

  def initialize(user)
    # for any visitor or user
    can :read, Article

    if user
      if user.admin?
        # admins can do any action on any model or action
        can :manage, :all
      else
        # regular users can read all content
        can :read, :all
        # and edit, update and destroy their own user only
        can [:edit, :destroy], User, id: user_id
        # but cannot read hidden articles
        cannot :read, Article, hidden: true
      end
    else
      # only unlogged visitors can visit a sign_up page:
      can :read, :sign_up
    end
  end
end
```

Ability

```
class Ability
  include CanCan::Ability

  def initialize(user)
    anyone_abilities

    if user
      if user.admin?
        admin_abilities
      else
        authenticated_abilities
      end
    else
      guest_abilities
    end
  end

  private

  def anyone_abilities
    # define abilities for everyone, both logged users and visitors
  end

  def guest_abilities
    # define abilities for visitors only
  end

  def authenticated_abilities
    # define abilities for logged users only
  end
end
```

```
end

def admin_abilities
  # define abilities for admins only
end
end
```

```
# app/models/ability.rb
class Ability
  include CanCan::Ability

  def initialize(user)
    self.merge Abilities::Everyone.new(user)

    if user
      if user.admin?
        self.merge Abilities::Admin.new(user)
      else
        self.merge Abilities::Authenticated.new(user)
      end
    else
      self.merge Abilities::Guest.new(user)
    end
  end
end
```

```
# app/models/abilities/guest.rb
module Abilities
  class Guest
    include CanCan::Ability

    def initialize(user)
      # Abilities for anonymous visitors only
    end
  end
end
```

Abilities::Authenticated Abilities::Admin

## rails

```
test_ability = Ability.new(User.first)
test_ability.can?(:show, Post) #=> true
other_ability = Ability.new(RestrictedUser.first)
other_ability.cannot?(:show, Post) #=> true
```

<https://github.com/ryanb/cancan/wiki/Testing-Abilities>

**CanCan** <https://riptutorial.com/zh-TW/ruby-on-rails/topic/3021/cancan>

# 14: Elasticsearch

## Examples

ElasticSearch◦ Java◦

- **Mac OS X** `brew install elasticsearch`
- **Ubuntu** `sudo apt-get install elasticsearch`
  
- **Mac OS X** `brew services start elasticsearch`
- **Ubuntu** `sudo service elasticsearch start`

curl◦◦

```
curl localhost:9200
```

```
{
  "name" : "Hydro-Man",
  "cluster_name" : "elasticsearch_gkbonetti",
  "version" : {
    "number" : "2.3.5",
    "build_hash" : "90f439ff60a3c0f497f91663701e64ccd01edbb4",
    "build_timestamp" : "2016-07-27T10:36:52Z",
    "build_snapshot" : false,
    "lucene_version" : "5.5.0"
  },
  "tagline" : "You Know, for Search"
}
```

ElasticSearchES◦ [elasticsearch-head](#)◦

- **ES** `ls -l $(which elasticsearch)`
- `cd elasticsearch/bin/plugin -install mobz/elasticsearch-head`
- `http://localhost:9200/_plugin/head/`

GUI◦

ElasticSearchJSON API

- [Elasticsearch](#) - HTTP API
- [Elasticsearch-rails](#) - RailsActiveRecordRepositoryRailsElasticSearch
- [Chewy](#) - Rails

```
gem install elasticsearch
```

ruby

```
require 'elasticsearch'
```

```
client = Elasticsearch::Client.new log: true
# by default it connects to http://localhost:9200

client.transport.reload_connections!
client.cluster.health

client.search q: 'test'
```

## Searchkick

### elasticsearchsearchkick gem

```
gem 'searchkick'
```

### searchkick

```
class Product < ActiveRecord::Base
  searchkick
end
```

◦

```
Product.reindex
```

```
products = Product.search "apples"
products.each do |product|
  puts product.name
end
```

;~)

<https://github.com/ankane/searchkick>

**Elasticsearch** <https://riptutorial.com/zh-TW/ruby-on-rails/topic/6500/elasticsearch>

# 15: I18n -

- `I18n.t`
- `I18n.translate` "key" `I18n.t("key")`
- `I18n.t` "4"
- `I18n.t` "key" param1 "Something" param2 "Else"
- `I18n.t` "doesnt\_exist" "key"
- `I18n.locale` => en
- `I18n.locale` = en
- `I18n.default_locale` => en
- `I18n.default_locale` = en
- `t` " key" `I18n.t("key") /`

## Examples

### I18n

#### YAML

```
# config/locales/en.yml
en:
  header:
    title: "My header title"
```

```
# in ERB files
<%= t('header.title') %>
```

```
# in SLIM files
= t('header.title')
```

### I18n t

```
# Example config/locales/en.yml
en:
  page:
    users: "%{users_count} users currently online"
```

```
# In models, controller, etc...
I18n.t('page.users', users_count: 12)
```

```
# In views
```

```
# ERB
<%= t('page.users', users_count: 12) %>
```

```
#SLIM
= t('page.users', users_count: 12)
```

```
# Shortcut in views - DRY!
# Use only the dot notation
```



```
# Important: Consider you have the following controller and view page#users

# ERB Example app/views/page/users.html.erb
<%= t('.users', users_count: 12) %>
```

```
"12 users currently online"
```

## I18n

```
# config/locales/en.yml
en:
  online_users:
    one: "1 user is online"
    other: "%{count} users are online"
```

### countI18n.t helper

```
I18n.t("online_users", count: 1)
#=> "1 user is online"

I18n.t("online_users", count: 4)
#=> "4 users are online"
```

## I18n URLbefore\_action ApplicationController

```
class ApplicationController < ActionController::Base
  before_action :set_locale

  protected

  def set_locale
    # Remove inappropriate/unnecessary ones
    I18n.locale = params[:locale] || # Request parameter
      session[:locale] || # Current session
      (current_user.preferred_locale if user_signed_in?) || # Model saved configuration
      extract_locale_from_accept_language_header || # Language header - browser
    config
    I18n.default_locale # Set in your config files, english by super-default
  end

  # Extract language from request header
  def extract_locale_from_accept_language_header
    if request.env['HTTP_ACCEPT_LANGUAGE']
      lg = request.env['HTTP_ACCEPT_LANGUAGE'].scan(/^[a-z]{2}/).first.to_sym
      lg.in?([:en, YOUR_AVAILABLE_LANGUAGES]) ? lg : nil
    end
  end
end
```

# URL

## localeURL

```
http://yourapplication.com/products?locale=en
```

```
http://yourapplication.com/en/products
```

routes scope

```
# config/routes.rb
scope "(:locale)", locale: /en|fr/ do
  resources :products
end
```

http://yourapplication.com/en/products:en ◦ http://yourapplication.com/fr/products:fr ◦ :locale  
http://yourapplication.com/products **I18n** ◦

/◦

```
class SetLanguageController < ApplicationController
  skip_before_filter :authenticate_user!
  after_action :set_preferred_locale

  # Generic version to handle a large list of languages
  def change_locale
    I18n.locale = sanitize_language_param
    set_session_and_redirect
  end
end
```

**sanitize\_language\_param** ◦

```
def fr
  I18n.locale = :fr
  set_session_and_redirect
end

def en
  I18n.locale = :en
  set_session_and_redirect
end

private

def set_session_and_redirect
  session[:locale] = I18n.locale
  redirect_to :back
end

def set_preferred_locale
  if user_signed_in?
    current_user.preferred_locale = I18n.locale.to_s
    current_user.save if current_user.changed?
  end
end
```

*change\_language*

◦ config/application.rb

```
config.i18n.default_locale = :de
```

config/initializersconfig/initializers

```
# config/initializers/locale.rb
I18n.default_locale = :it
```

## HTTP

IP◦ **Geocoder**◦ **Geocoder**requestlocation◦

**Geocoder**Gemfile

```
# Gemfile
gem 'geocoder'
```

**Geocoder**locationsafe\_locationRack::RequestIPHTTP◦ ApplicationControllerbefore\_action

```
class ApplicationController < ActionController::Base
  before_action :set_locale_from_request

  def set_locale_from_request
    country_code = request.location.data["country_code"] #=> "US"
    country_sym = country_code.underscore.to_sym #=> :us

    # If request locale is available use it, otherwise use I18n default locale
    if I18n.available_locales.include? country_sym
      I18n.locale = country_sym
    end
  end
end
```

developmenttest0.0.0.0localhostInternet IP◦

**Geocoder** ;◦ ◦

1.

GeoIPgem◦ ◦

## 2.CloudFlare

CloudFlare/ HTTP\_CF\_IPCOUNTRY◦ ◦

# ActiveRecord

**globalize gem** ActiveRecord ◦ Gemfile

```
gem 'globalize', '~> 5.0.0'
```

Rails 5 activemodel-serializers-xml

```
gem 'activemodel-serializers-xml'
```

```
class Post < ActiveRecord::Base
  translates :title, :text
end

I18n.locale = :en
post.title # => Globalize rocks!

I18n.locale = :he
post.title # => טלוש זיילאבולג!
```

◦ **globalize** create\_translation\_table! drop\_translation\_table! ◦

updown change ◦ ◦ Post

```
class CreatePostsTranslationTable < ActiveRecord::Migration
  def up
    Post.create_translation_table! title: :string, text: :text
  end

  def down
    Post.drop_translation_table!
  end
end
```

```
class CreatePostsTranslationTable < ActiveRecord::Migration
  def up
    Post.create_translation_table! title: :string,
    text: { type: :text, null: false, default: "Default text" }
  end

  def down
    Post.drop_translation_table!
  end
end
```

```
class CreatePostsTranslationTable < ActiveRecord::Migration
  def up
    Post.create_translation_table!({
      title: :string,
      text: :text
    }, {
      migrate_data: true
    })
  end
end
```

```

end

def down
  Post.drop_translation_table! migrate_data: true
end
end

```

◦ `remove_source_columns`

```

class CreatePostsTranslationTable < ActiveRecord::Migration
  def up
    Post.create_translation_table!(
      title: :string,
      text: :text
    ), {
      migrate_data: true,
      remove_source_columns: true
    }
  end

  def down
    Post.drop_translation_table! migrate_data: true
  end
end

```

```

class Post < ActiveRecord::Base
  # Remember to add your attribute here too.
  translates :title, :text, :author
end

class AddAuthorToPost < ActiveRecord::Migration
  def up
    Post.add_translation_fields! author: :text
  end

  def down
    remove_column :post_translations, :author
  end
end

```

## I18nHTML

```

# config/locales/en.yml
en:
  stackoverflow:
    header:
      title_html: "Use <strong>I18n</strong> with Tags & Symbols"

```

`title_html` ◦

```

# ERB
<h2><%= t(:title_html, scope: [:stackoverflow, :header]) %></h2>

```

I18n - <https://riptutorial.com/zh-TW/ruby-on-rails/topic/2772/i18n---->

# 16: Mongoid

## Examples

MongoidGemfile

```
gem "mongoid", "~> 4.0.0"
```

bundle install ◦

```
$ gem install mongoid
```

```
$ rails g mongoid:config
```

(myapp)/config/mongoid.yml ◦

User

```
$ rails g model User
```

app/models/user.rb

```
class User
  include Mongoid::Document
end
```

id ◦ ActiveRecord ◦

◦ created\_at updated\_at

```
include Mongoid::Timestamps
```

include Mongoid::Document

```
class User
  include Mongoid::Document
  include Mongoid::Timestamps
end
```

## Mongoid 16

- 
- **BigDecimal**
- 
- 
-

- 
- 
- 
- BSON ::ObjectId
- BSON ::
- 
- 
- 
- 
- 
- TimeWithZone

nameStringString

```
field :name, type: String
```

default

```
field :name, type: String, default: ""
```

## Mongoid ActiveRecord

- has\_one / belongs\_to
- has\_many / belongs\_to
- has\_and\_belongs\_to\_many

has\_manyUser

```
has_many :posts
```

Post

```
belongs_to :user
```

Postuser\_idPostuserUserposts°

## Mongoid

- embeds\_one / embedded\_in
- embeds\_many / embedded\_in

embeds\_manyUser

```
embeds_many :addresses
```

Address

```
embedded_in :user
```

UserAddress Useraddresses°



## Mongoid ActiveRecord

```
User.first #Gets first user from the database

User.count #Gets the count of all users from the database

User.find(params[:id]) #Returns the user with the id found in params[:id]

User.where(name: "Bob") #Returns a Mongoid::Criteria object that can be chained
                        #with other queries (like another 'where' or an 'any_in')
                        #Does NOT return any objects from database

User.where(name: "Bob").entries #Returns all objects with name "Bob" from database

User.where(:name.in => ['Bob', 'Alice']).entries #Returns all objects with name "Bob" or
" Alice" from database

User.any_in(name: ["Bob", "Joe"]).first #Returns the first object with name "Bob" or "Joe"
User.where(:name => 'Bob').exists? # will return true if there is one or more users with name
bob
```

Mongoid <https://riptutorial.com/zh-TW/ruby-on-rails/topic/3071/mongoid>

# 17: Rails 5

## Examples

### Ruby on Rails 5 API

#### Rails 5 API

```
rails new app_name --api
```

```
create
create  README.rdoc
create  Rakefile
create  config.ru
create  .gitignore
create  Gemfile
create  app
create  app/assets/javascripts/application.js
create  app/assets/stylesheets/application.css
create  app/controllers/application_controller.rb
create  app/helpers/application_helper.rb
create  app/views/layouts/application.html.erb
create  app/assets/images/.keep
create  app/mailers/.keep
create  app/models/.keep
create  app/controllers/concerns/.keep
create  app/models/concerns/.keep
create  bin
create  bin/bundle
create  bin/rails
create  bin/rake
create  bin/setup
create  config
create  config/routes.rb
create  config/application.rb
create  config/environment.rb
create  config/secrets.yml
create  config/environments
create  config/environments/development.rb
create  config/environments/production.rb
create  config/environments/test.rb
create  config/initializers
create  config/initializers/assets.rb
create  config/initializers/backtrace_silencers.rb
create  config/initializers/cookies_serializer.rb
create  config/initializers/filter_parameter_logging.rb
create  config/initializers/inflexions.rb
create  config/initializers/mime_types.rb
create  config/initializers/session_store.rb
create  config/initializers/wrap_parameters.rb
create  config/locales
create  config/locales/en.yml
create  config/boot.rb
create  config/database.yml
create  db
```

```
create db/seeds.rb
create lib
create lib/tasks
create lib/tasks/.keep
create lib/assets
create lib/assets/.keep
create log
create log/.keep
create public
create public/404.html
create public/422.html
create public/500.html
create public/favicon.ico
create public/robots.txt
create test/fixtures
create test/fixtures/.keep
create test/controllers
create test/controllers/.keep
create test/mailers
create test/mailers/.keep
create test/models
create test/models/.keep
create test/helpers
create test/helpers/.keep
create test/integration
create test/integration/.keep
create test/test_helper.rb
create tmp/cache
create tmp/cache/assets
create vendor/assets/javascripts
create vendor/assets/javascripts/.keep
create vendor/assets/stylesheets
create vendor/assets/stylesheets/.keep
```

app\_name ◦

```
cd app_name
bundle install
```

◦ **RailsSQLite** ◦

```
rake db:setup
```

application

```
$ rails server
```

<http://localhost:3000>API

## RVMRuby on Rails 5

RVMruby ◦

RVMruby

```
$ rvm get stable
$ rvm install ruby --latest
```

## ruby

```
$ ruby -v
> ruby 2.3.0p0
```

## Rails 5

```
$ rvm use ruby-2.3.0@my_app --create
$ gem install rails
```

## rails

```
$ rails -v
> Rails 5.0.0
```

**Rails 5** <https://riptutorial.com/zh-TW/ruby-on-rails/topic/3019/rails-5>

---

# 18: Rails 5 API

## Examples

### Railsauthenticate\_with\_http\_token

```
authenticate_with_http_token do |token, options|  
  @user = User.find_by(auth_token: token)  
end
```

curl

```
curl -IH "Authorization: Token token=my-token" http://localhost:3000
```

Rails 5 API <https://riptutorial.com/zh-TW/ruby-on-rails/topic/7852/rails-5-api>

---

# 19: Rails API

## Examples

### API

API Rails Rails 5 Rails

### Rails API

```
rails new my_api --api
```

--api API cookie Rails

o

Web ApplicationController ApplicationController API Web ActionController::Base API

ActionController::API o

Rails API <https://riptutorial.com/zh-TW/ruby-on-rails/topic/4305/rails-api>

# 20: Rails Cookbook - /

## Examples

### rails

---

```
ActiveRecord::Base.connection.tables
```

o

```
ActiveRecord::Base.connection.drop_table("users")
-----OR-----
ActiveRecord::Migration.drop_table(:users)
-----OR-----
ActiveRecord::Base.connection.execute("drop table users")
```

```
ActiveRecord::Migration.remove_index(:users, :name => 'index_users_on_country')
```

countryusers -

```
t.string :country,add_index: true
```

```
ActiveRecord::Base.connection.remove_foreign_key('food_items', 'menus')
```

menus has\_many food\_items o

```
ActiveRecord::Migration.remove_column :table_name, :column_name
```

-

```
ActiveRecord::Migration.add_column :profiles, :profile_likes, :integer, :default => 0
```

### Rails -

### Rails o

-

```
##this method return ActiveRecord::Relation
def check_if_user_profile_is_complete
  User.includes( :profile_pictures,:address,:contact_detail).where("user.id = ?",self)
end
```

-

```
##this method return Boolean(NOTE THE !! signs before result)
def check_if_user_profile_is_complete
  !!User.includes(:profile_pictures,:address,:contact_detail).where("user.id = ?",self)
end
```

;)。

## - `where`

whereActiveRecord::Relation .HenceWhereActiveRecordArray 。

Joins。

-

UserProfileid = 10User。

```
UserProfiles.includes(:user=>:profile_pictures).where(:active=>true).map(&:user).where.not(:id=>10)
```

mapmapwherearray 。

```
UserProfiles.includes(:user=>:profile_pictures).where(:active=>true).joins(:user).where.not(:id=>10)
```

joinsmapActiveRecord Array 。

**Rails Cookbook** - / <https://riptutorial.com/zh-TW/ruby-on-rails/topic/7259/rails-cookbook----->



---

# 21: Rails -Engines

◦ Rails“Rails :: ApplicationRails :: Engine◦

rails/◦ ◦ DeviceSpree gemsrails◦

- rails plugin new [engine name] --mountable

<b>--mountable</b>	“”
-	

rails

## Examples

```
rails plugin new [engine name] --mountable
```

railsgem

Rails -Engines <https://riptutorial.com/zh-TW/ruby-on-rails/topic/10881/rails--engines>

# 22: Rails

Devise ◦ ◦ Devise ◦ ◦ railsDevise ◦

```
rails generate devise:install rails generate devise:install ◦
```

```
USER rails generate devise USER USER ◦
```

```
before_action :authenticate_user! user ◦ ◦
```

## Examples

### Devise

#### gemGemfile

```
gem 'devise'
```

```
bundle install ◦
```

```
$ rails generate devise:install ◦
```

#### DeviseURL

```
config.action_mailer.default_url_options = { host: 'localhost', port: 3000 }
```

```
config/environments/development.rb
```

```
config/environments/production.rb
```

```
config.action_mailer.default_url_options = { host: 'your-site-url' }
```

```
$ rails generate devise USER USER ◦
```

```
rake db:migrate ◦
```

```
rails generate devise:views ◦ ◦
```

```
DeviseUserAdminDevise ◦ Devise ◦ config/initializers/devise.rb config.scoped_views = true ◦
```

```
rails generate devise:views users
```

```
-V rails generate devise:views -v registrations confirmations
```

```
devisebefore_action :("User"
```

```
before_action :authenticate_user!
```

```
user_signed_in?
```

current\_user

user\_session

- Member User usermember

## Omniauth

Gemfile ◦ <https://github.com/intridea/omniauth/wiki/List-of-Strategies>

```
gem 'omniauth-github', :github => 'intridea/omniauth-github'  
gem 'omniauth-openid', :github => 'intridea/omniauth-openid'
```

## rails

```
Rails.application.config.middleware.use OmniAuth::Builder do  
  require 'openid/store/filesystem'  
  provider :github, ENV['GITHUB_KEY'], ENV['GITHUB_SECRET']  
  provider :openid, :store => OpenID::Store::Filesystem.new('/tmp')  
end
```

OmniAuth/auth/:provider◦

omniauth/auth/failure

## has\_secure\_password

rails generate model User email:string password\_digest:string

## has\_secure\_password

```
class User < ActiveRecord::Base  
  has_secure_password  
end
```

```
user = User.new email: 'bob@bob.com', password: 'Password1', password_confirmation:  
'Password1'
```

## authenticate

```
user.authenticate('somepassword')
```

## has\_secure\_token

```
# Schema: User(token:string, auth_token:string)  
class User < ActiveRecord::Base  
  has_secure_token  
  has_secure_token :auth_token  
end
```

## auth\_token

```
user = User.new
user.save
user.token # => "pX27zsMN2ViQKta1bGfLmVJE"
user.auth_token # => "77TMHrHJFvFDwodq8w7Ev2m7"
```

regenerate\_token regenerate\_auth\_token

```
user.regenerate_token # => true
user.regenerate_auth_token # => true
```

**Rails** <https://riptutorial.com/zh-TW/ruby-on-rails/topic/1794/rails>

# 23: Rails -

## Rails

Rails◦ Ruby on Rails Rails::Application Rails::Engine◦ Rails◦

- rails plugin new my\_module --mountable

## Examples

### Ruby on Rails

```
rails new ModularTodo
```

```
cd ModularTodo && rails plugin new todo --mountable
```

“”◦

```
mkdir engines && mv todo ./engines
```

gemspec◦ ◦

```
#ModularTodo/engines/todo/todo.gemspec
$:push File.expand_path("../lib", __FILE__)

#Maintain your gem's version:
require "todo/version"

#Describe your gem and declare its dependencies:
Gem::Specification.new do |s|
  s.name           = "todo"
  s.version        = Todo::VERSION
  s.authors        = ["Thibault Denizet"]
  s.email          = ["bo@samurails.com"]
  s.homepage       = "//samurails.com"
  s.summary        = "Todo Module"
  s.description    = "Todo Module for Modular Rails article"
  s.license        = "MIT"

  #Moar stuff
  #...
end
```

TodoGemfile◦

```
#ModularTodo/Gemfile
#Other gems
gem 'todo', path: 'engines/todo'
```

bundle install ◦ **gem**

```
Using todo 0.0.1 from source at engines/todo
```

TodoTodo ◦ routes.rb ◦

```
Rails.application.routes.draw do
  mount Todo::Engine => "/", as: 'todo'
end
```

```
//todo ◦ / ◦
```

◦ **Rails** ◦

---

# Todo

TodoTaskengine.rb ◦

```
#ModularTodo/engines/todo/lib/todo/engine.rb
module Todo
  class Engine < ::Rails::Engine
    isolate_namespace Todo

    initializer :append_migrations do |app|
      unless app.root.to_s.match(root.to_s)
        config.paths["db/migrate"].expanded.each do |p|
          app.config.paths["db/migrate"] << p
        end
      end
    end
  end
end

end
end
```

Todo ◦

Task ◦ scaffold ◦

```
cd engines/todo && rails g scaffold Task title:string content:text
```

```
rake db:migrate
```

Todo

```
#ModularTodo/engines/todo/config/routes.rb
Todo::Engine.routes.draw do
  resources :tasks
  root 'tasks#index'
end
```

.....jQueryapplication.js

```
// ModularTodo/engines/todo/app/assets/javascripts/todo/application.js
//= require jquery
//= require jquery_ujs
//= require_tree .
```

Rails - <https://riptutorial.com/zh-TW/ruby-on-rails/topic/9080/rails--->

# 24: Rails

## Examples

RailsDRY。

partials。 。 。 。

*Fat ModelSkinny Controller*

```
# Post model
scope :unpublished, ->(timestamp = Time.now) { where('published_at IS NULL OR published_at > ?', timestamp) }

# Any controller
def index
  ....
  @unpublished_posts = Post.unpublished
  ....
end

def others
  ...
  @unpublished_posts = Post.unpublished
  ...
end
```

APIAPI。

Rails 。

Rails。 Rails。

。

。 Rails。 。

ordersid order orders\_controller 。 new editnew edit。

rails new app\_name 。 70Rails。

- 
- 
- WebJavascriptCSS
- HTTP 400
- 

“Fat ModelSkinny Controller”MVCMC。 。 “”。

。



◦

```
def index
  @published_posts = Post.where('published_at <= ?', Time.now)
  @unpublished_posts = Post.where('published_at IS NULL OR published_at > ?', Time.now)
end
```

```
def index
  @published_posts = Post.published
  @unpublished_posts = Post.unpublished
end
```

```
scope :published, ->(timestamp = Time.now) { where('published_at <= ?', timestamp) }
scope :unpublished, ->(timestamp = Time.now) { where('published_at IS NULL OR published_at > ?', timestamp) }
```

## default\_scope

ActiveRecord default\_scope ◦

```
class Post
  default_scope ->{ where(published: true).order(created_at: :desc) }
end
```

◦

```
Post.all # will only list published posts
```

◦

default\_scope order

default\_scope order Post order ◦

```
Post.order(updated_at: :desc)
```

```
SELECT "posts".* FROM "posts" WHERE "posts"."published" = 't' ORDER BY "posts"."created_at"
DESC, "posts"."updated_at" DESC
```

;order

```
Post.except(:order).order(updated_at: :desc)
```

```
SELECT "posts".* FROM "posts" WHERE "posts"."published" = 't' ORDER BY "posts"."updated_at"
DESC
```

---

## default\_scope

ActiveRecord::Relation

default\_scope

Post.where(published: true) Post

```
Post.new # => <Post published: true>
```

## unscoped

default\_scope unscoped STI

```
class Post < Document
  default_scope ->{ where(published: true).order(created_at: :desc) }
end
```

Post.type('Post') . unscoped default\_scope unscoped

```
Post.unscoped.where(type: 'Post').order(updated_at: :desc)
```

## unscoped

PostUser

```
class Post < ApplicationRecord
  belongs_to :user
  default_scope ->{ where(published: true).order(created_at: :desc) }
end

class User < ApplicationRecord
  has_many :posts
end
```

User

```
user = User.find(1)
user.posts
```

```
SELECT "posts".* FROM "posts" WHERE "posts"."published" = 't' AND "posts"."user_id" = ? ORDER BY "posts"."created_at" DESC [{"user_id", 1}]
```

posts default\_scope unscoped

```
user.posts.unscoped
```

```
SELECT "posts".* FROM "posts"
```

user\_id default\_scope

## default\_scope

default\_scope

◦ default\_scope ◦ ◦

```
class ApplicationRecord < ActiveRecord::Base
  def self.inherited(subclass)
    super

    return unless subclass.superclass == self
    return unless subclass.column_names.include? 'tenant_id'

    subclass.class_eval do
      default_scope ->{ where(tenant_id: Tenant.current_id) }
    end
  end
end
```

Tenant.current\_idtenant\_id ID

◦ unscoped

## YAGNI

“YAGNI”

—

◦ “”

Code Bloat

◦

◦ ◦

—

-

KISS “”

## YAGNI -

◦ YAGNI

◦ ◦

“Fat ModelSkinny Controller”

◦

- 
- 
- “ ”◦
- ◦

## Stripe15◦ 152.9+ 30¢◦

$\text{amount} * 0.15 - (\text{amount} * 0.029 + 0.30)$  ◦

```
# app/models/order.rb
class Order < ActiveRecord::Base
  SERVICE_COMMISSION = 0.15
  STRIPE_PERCENTAGE_COMMISSION = 0.029
  STRIPE_FIXED_COMMISSION = 0.30

  ...

  def commission
    amount * SERVICE_COMMISSION - stripe_commission
  end

  private

  def stripe_commission
    amount * STRIPE_PERCENTAGE_COMMISSION + STRIPE_FIXED_COMMISSION
  end
end
```

- 
- Order ◦

```
# app/models/order.rb
class Order < ActiveRecord::Base
  ...
  # No reference to commission calculation
end

# lib/commission.rb
class Commission
  SERVICE_COMMISSION = 0.15

  def self.calculate(payment_method, model)
    model.amount * SERVICE_COMMISSION - payment_commission(payment_method, model)
  end

  private

  def self.payment_commission(payment_method, model)
    # There are better ways to implement a static registry,
    # this is only for illustration purposes.
    Object.const_get("#{payment_method}Commission").calculate(model)
  end
end
```

```

end

# lib/stripe_commission.rb
class StripeCommission
  STRIPE_PERCENTAGE_COMMISSION = 0.029
  STRIPE_FIXED_COMMISSION = 0.30

  def self.calculate(model)
    model.amount*STRIPE_PERCENTAGE_COMMISSION
    + STRIPE_PERCENTAGE_COMMISSION
  end
end

# app/controllers/orders_controller.rb
class OrdersController < ApplicationController
  def create
    @order = Order.new(order_params)
    @order.commission = Commission.calculate("Stripe", @order)
    ...
  end
end
end

```

- ◦
- amount ◦
- ◦
- ◦
- **Ruby on Rails**User◦

lib ◦ autoload\_paths

```

# config/application.rb
config.autoload_paths << Rails.root.join('lib')

```

/◦ app/commandsapp◦

**Rails** <https://riptutorial.com/zh-TW/ruby-on-rails/topic/1207/rails>

# 25: Rails

```
rails generate GENERATOR_NAME [args] [options] ◦
```

```
rails generate ◦ rails g ◦
```

-h / --help	
-p / --pretend	
field:type	'field-name"type' ◦ field:type "type"" ◦

```
field:type 'type' field:type
```

:string	255
:text	
:binary	
:boolean	
:date	
:time	
:datetime	
:float	
:decimal	
:integer	

## Examples

### Rails

```
ActiveRecord db
```

```
rails generate model NAME column_name:column_type
```

```
'NAME' ◦ 'field'DB'type' name:stringbody:text ◦ "" ◦
```

```
belongs_to:model_name ◦
```

```
username emailSchoolUser
```

```
rails generate model User username:string email:string school:belongs_to
```

rails rails generate°

```
rails g model User username:string email:string school:belongs_to
```

## Rails

### rails

```
rails generate migration NAME [field[:type][:index] field[:type][:index]] [options]
```

rails generate migration °

```
first_name last_name users
```

```
rails generate migration AddNamesToUsers last_name:string first_name:string
```

### Rails

```
class AddNamesToUsers < ActiveRecord::Migration[5.0]
  def change
    add_column :users, :last_name, :string
    add_column :users, :first_name, :string
  end
end
```

### 5

```
rake db:migrate
```

### 5

```
rails db:migrate
```

generate °

## Rails

### CRUD/ Web/:(°

rails g scaffold°

```
$ rails g scaffold Widget name:string price:decimal
  invoke  active_record
  create  db/migrate/20160722171221_create_widgets.rb
  create  app/models/widget.rb
  invoke  test_unit
  create  test/models/widget_test.rb
  create  test/fixtures/widgets.yml
```

```

invoke resource_route
  route resources :widgets
invoke scaffold_controller
create app/controllers/widgets_controller.rb
invoke erb
create app/views/widgets
create app/views/widgets/index.html.erb
create app/views/widgets/edit.html.erb
create app/views/widgets/show.html.erb
create app/views/widgets/new.html.erb
create app/views/widgets/_form.html.erb
invoke test_unit
create test/controllers/widgets_controller_test.rb
invoke helper
create app/helpers/widgets_helper.rb
invoke jbuilder
create app/views/widgets/index.json.jbuilder
create app/views/widgets/show.json.jbuilder
invoke assets
invoke javascript
create app/assets/javascripts/widgets.js
invoke scss
create app/assets/stylesheets/widgets.scss

```

rake db:migrate◦

<http://localhost3000/widgets> CRUD◦

## Rails

rails g controller◦

```
$ bin/rails generate controller controller_name
```

generate controller ControllerName action1 action2◦

Greetingshello◦

```
$ bin/rails generate controller Greetings hello
```

```

create app/controllers/greetings_controller.rb
  route get "greetings/hello"
invoke erb
create app/views/greetings
create app/views/greetings/hello.html.erb
invoke test_unit
create test/controllers/greetings_controller_test.rb
invoke helper
create app/helpers/greetings_helper.rb
invoke assets
invoke coffee
create app/assets/javascripts/greetings.coffee
invoke scss
create app/assets/stylesheets/greetings.scss

```



	greetings_controller.rb
	hello.html.erb
	greetings_controller_test.rb
	greetings_helper.rb
JavaScript	greetings.coffee

routes.rb

Rails <https://riptutorial.com/zh-TW/ruby-on-rails/topic/2540/rails>

# 26: Rails

## Examples

### Rails.logger

`Rails.logger.{debug|info|warn|error|fatal}puts` ◦ ◦ `rails app` `log/` ◦ `development.log` `production.log` `staging.log`

### LogRotaterails

`linux` `vim` `nano` `/etc/logrotate.conf` ◦

```
/YOUR/RAILSAPP/PATH/log/*.log {
  daily
  missingok
  rotate 7
  compress
  delaycompress
  notifempty
  copytruncate
}
```

◦

- - ◦ ◦
- **missingok** -
- **7** - 7
- **compress** - GZip
- **delaycompress** - Rails
- **notifempty** -
- **copytruncate** - ◦ Rails ◦ Rails ◦

### Logrotate

`logrotate` `sudo` `/usr/sbin/logrotate -f /etc/logrotate.conf`

◦

**Rails** <https://riptutorial.com/zh-TW/ruby-on-rails/topic/3904/rails>

---

# 27: RSpecRuby on Rails

RSpecRuby *RSpecRuby* ◦

Ruby on Rails [RSpec](#) ◦ [RSpec](#) ◦

## Examples

### RSpec

RSpecRails [rspec-rails](#) `gem rails generate` ◦

```
rspec-railsGemfile:development:test
```

```
group :development, :test do
  gem 'rspec-rails', '~> 3.5'
end
```

`bundle` ◦

```
rails generate rspec:install
```

spec/

- `.rspecrspec`
- `spec/spec_helper.rb` [RSpec](#)
- `spec/rails_helper.rb` [RSpecRails](#) ◦

◦

[RSpecRuby on Rails](#) <https://riptutorial.com/zh-TW/ruby-on-rails/topic/5335/rspecruby-on-rails>

# 28: Ruby on Rails

## Examples

### Ruby on Rails

has\_many<sup>o</sup>

```
class Project < ApplicationRecord
  has_many :todos
end

class Todo < ApplicationRecord
  belongs_to :project
end
```

ProjectsController

```
class ProjectsController < ApplicationController
  def new
    @project = Project.new
  end
end
```

o

```
<%= nested_form_for @project do |f| %>
  <%= f.label :name %>
  <%= f.text_field :name %>

  <% # Now comes the part for `Todo` object %>
  <%= f.fields_for :todo do |todo_field| %>
    <%= todo_field.label :name %>
    <%= todo_field.text_field :name %>
  <% end %>
<% end %>
```

Project.new@projectProjectTodo

1. `Projectscontroller new @todo = @project.todos.build@todo = @project.todos.newTodoo`
2. `<%= f.fields_for :todos, @project.todos.build %>`

### params

```
def project_params
  params.require(:project).permit(:name, todo_attributes: [:name])
end
```

TodoProjectProject

```
accepts_nested_attributes_for :todos
```

Ruby on Rails <https://riptutorial.com/zh-TW/ruby-on-rails/topic/8203/ruby-on-rails>

---

# 29: Ruby on Rails

Rails ◦ ◦

## Examples

◦ bullet gemN + 1 ◦ ◦ ◦

### Rails

Rails ◦ ; ◦ ◦

### Rubocop

RubyRuby ◦ gemObjectto\_s ◦

100Ruby ◦ ◦

4copsStyleLintMetricsRails ◦

Ruby on Rails <https://riptutorial.com/zh-TW/ruby-on-rails/topic/8713/ruby-on-rails>

---

# 30: Turbolinks

TurbolinksjavascriptWeb。 Turbolinks<body><head>。

railsturbolinks。 ◦

- `turbolinks:load`document.ready
- `data-turbolinks=false`turbolink。
- `data-turbolinks-permanent`。

turbolinks[github](#)。 ◦

githubturbolinks。

## Examples

### turbolink

turbolinks

```
$(document).ready(function() {  
  // awesome code  
});
```

◦ **turbolink** `$(document).ready()` ◦ **turbolinksajax**<body><head>。 **turbolinks**""。 `document.ready()`  
**turbolink**

```
// pure js  
document.addEventListener("turbolinks:load", function() {  
  // awesome code  
});  
  
// jQuery  
$(document).on('turbolinks:load', function() {  
  // your code  
});
```

### turbolink

turbolink。 [turbolinks](#)

`data-turbolinks = "false"`Turbolink。

---

```
// disables turbolinks for this one link  
<a href="/" data-turbolinks="false">Disabled</a>
```

```
// disables turbolinks for all links nested within the div tag
<div data-turbolinks="false">
  <a href="/">I'm disabled</a>
  <a href="/">I'm also disabled</a>
</div>

// re-enable specific link when ancestor has disabled turbolinks
<div data-turbolinks="false">
  <a href="/">I'm disabled</a>
  <a href="/" data-turbolinks="true">I'm re-enabled</a>
</div>
```

## Turbolinks

```
Turbolinks.visit(location)
```

'advance'. "location". turbolinks.history.pushState() turbolink. .

“”

```
// using links
<a href="/edit" data-turbolinks-action="replace">Edit</a>

// programatically
Turbolinks.visit("/edit", { action: "replace" })
```

.

“” . Turbolinks.

Turbolinks. turbolinks:before-visit.

```
// pure javascript
event.data.url
```

```
// jQuery
$(event.originalEvent.data.url
```

.

```
event.preventDefault()
```

## turbolinks

.

turbolink. . 3. JavaScript. javascript4. . 3.



turbolinks。 turbolink。 ◦

id“friend-count”<div>

```
<div id="friend-count" data-turbolinks-permanent>3 friends</div>
```

data-turbolinks-permanent turbolinks。◦

HTML IDdata-turbolinks-permanent。 Turbolinksid。

Turbolinks <https://riptutorial.com/zh-TW/ruby-on-rails/topic/9331/turbolinks>

---

# 31:

ActiveModelSerializersAMSJSON“”。 ActiveModelSerializers。 。 。

## Examples

```
class SomeSerializer < ActiveModel::Serializer
  attribute :title, key: :name
  attributes :body
end
```

<https://riptutorial.com/zh-TW/ruby-on-rails/topic/9000/>

# 32: DeviseApi

DeviseRails。 API。 APIAPIDevise。

## Examples

rails

rails

```
rails new devise_example
```

rails'Gemfile'

bundle install

```
rails generate devise:install
```

。

```
rails generate devise MODEL
```

rake db:migrate

## Devise Gem

---

auth\_tokenDevise

```
rails g migration add_authentication_token_to_users

class AddAuthenticationTokenToUsers < ActiveRecord::Migration
  def change
    add_column :users, :auth_token, :string, default: ""
    add_index :users, :auth_token, unique: true
  end
end
```

rake db:migrate

auth\_token

app/controllers/application\_controllers.rb

```
respond_to :html, :json
```

railshtmljson

```
protect_from_forgery with: :null
```

:null

application\_controller

Deviseuser\_emailauth\_token

```
before_filter do
  user_email = params[:user_email].presence
  user       = user_email && User.find_by_email(user_email)

  if user && Devise.secure_compare(user.authentication_token, params[:auth_token])
    sign_in user, store: false
  end
end
```

store: false

DeviseApi <https://riptutorial.com/zh-TW/ruby-on-rails/topic/9787/deviseapi>

# 33: GoogleMapsRails

## Examples

### google maps javascript

Google [turbolinks](#) javascript.

```
# app/views/layouts/my_layout.html.haml
!!!
%html{:lang => 'en'}
  %head
    - # ...
    = google_maps_api_script_tag
```

[google\\_maps\\_api\\_script\\_tag](#)

```
# app/helpers/google_maps_helper.rb
module GoogleMapsHelper
  def google_maps_api_script_tag
    javascript_include_tag google_maps_api_source
  end

  def google_maps_api_source
    "https://maps.googleapis.com/maps/api/js?key=#{google_maps_api_key}"
  end

  def google_maps_api_key
    Rails.application.secrets.google_maps_api_key
  end
end
```

[API](#) [API](#). [javascript api](#) [api](#).

[api](#) [secrets.yml](#)

```
# config/secrets.yml
development:
  google_maps_api_key: '...'
  # ...
production:
  google_maps_api_key: '...'
  # ...
```

[config/secrets.yml](#) [secrets.yml](#). [gitignore](#) [api](#).

[/Google](#).

```
# app/models/profile_fields/address.rb
class ProfileFields::Address < ProfileFields::Base
  # Attributes:
```

```
# label, e.g. "Work address"
# value, e.g. "Willy-Brandt-Straße 1\n10557 Berlin"
end
```

longitude latitude ◦

Gemfile bundle ◦

```
# Gemfile
gem 'geocoder', '~> 1.3'
```

latitude longitude ◦ ◦ ◦

```
→ bin/rails generate migration add_latitude_and_longitude_to_profile_fields \
  latitude:float longitude:float
→ bin/rails db:migrate # Rails 5, or:
→ rake db:migrate # Rails 3,4
```

◦ value ◦

```
# app/models/profile_fields/address.rb
class ProfileFields::Address < ProfileFields::Base
  geocoded_by :value
  after_validation :geocode, if: ->(address_field){
    address_field.value.present? and address_field.value_changed?
  }
end
```

◦ ◦ [README](#) ◦

## Google

Google ◦

```
- # app/views/profiles/show.html.haml
%h1 Contact Information
.profile_fields
  = render @profile_fields
.google_map{data: address_fields: @address_fields.to_json }
```

@profile\_fields @address\_fields


```
# app/controllers/profiles_controller.rb
class ProfilesController < ApplicationController
  def show
    # ...
    @profile_fields = @user_or_group.profile_fields
    @address_fields = @profile_fields.where(type: 'ProfileFields::Address')
  end
end
```

javascript◦

Info **Contact** Corporate Vita Work & Study More

## Contact Information

Email	doe@example.com
Work address	John Doe Willy-Brandt-Straße 1 10557 Berlin
Work address	John Doe 1-6 Chesham Pl London SW1X 8PZ United Kingdom
Phone	123 456



javascript

.google\_map **div**data◦

```
<!-- http://localhost:3000/profiles/123 -->
<div class="google_map" data-address-fields="[
  {label: 'Work address', value: 'Willy-Brandt-Straße 1\n10557 Berlin',
  position: {lng: ..., lat: ...}},
  ...
]"></div>
```

[turbolinks](#) \$(document).ready [turbolinks](#) [jquery.turbolinks gem](#) ◦

◦

```
# app/assets/javascripts/google_maps.js.coffee
window.App = {} unless App?
class App.GoogleMap
  constructor: (map_div)->
```

```
# TODO: initialize the map
# TODO: set the markers
```

App◦

.google\_map **div**App.GoogleMap◦

```
# app/assets/javascripts/google_maps.js.coffee
# ...
$(document).ready ->
  App.google_maps = []
  $('.google_map').each ->
    map_div = $(this)
    map = new App.GoogleMap map_div
    App.google_maps.push map
```

◦

App.GoogleMap

```
# app/assets/javascripts/google_maps.js.coffee
# ...
class App.GoogleMap
  map_div: {}
  map: {}

  constructor: (map_div)->
    @map_div = map_div
    @init_map()
    @reference_the_map_as_data_attribute

  # To access the GoogleMap object or the map object itself
  # later via the DOM, for example
  #
  #   $('.google_map').data('GoogleMap')
  #
  # store references as data attribute of the map_div.
  #
  reference_the_map_as_data_attribute: ->
    @map_div.data 'GoogleMap', this
    @map_div.data 'map', @map

  init_map: ->
    @map = new google.maps.Map(@dom_element, @map_configuration) if google?

  # `@map_div` is the jquery object. But google maps needs
  # the real DOM element.
  #
  dom_element: ->
    @map_div.get(0)

  map_configuration: -> {
    scrollWheel: true
  }
```

map\_configuration [GoogleMapOptions](#) ◦



[google.maps.Map](#) ◦

App.GoogleMap .google\_map **div**data-address-fields

```
# app/assets/javascripts/google_maps.js.coffee
# ...
class App.GoogleMap
  # ...
  markers: []

  constructor: (map_div)->
    # ...
    @init_markers()

  address_fields: ->
    @map_div.data('address-fields')

  init_markers: ->
    self = this # to reference the instance as `self` when `this` is redefined.
    self.markers = []
    for address_field in self.address_fields()
      marker = new google.maps.Marker {
        map: self.map,
        position: {
          lng: address_field.longitude,
          lat: address_field.latitude
        },
        # # or, if `position` is defined in `ProfileFields::Address#as_json`:
        # position: address_field.position,
        title: address_field.value
      }
      self.markers.push marker
```

[GoogleMarkerOptions](#) ◦

App.GoogleMap google.maps.Map@map google.maps.Marker@markers

```
# app/assets/javascripts/google_maps.js.coffee
# ...
class App.GoogleMap
  # ...
  bounds: {}

  constructor: (map_div)->
    # ...
    @auto_zoom()

  auto_zoom: ->
    @init_bounds()
    # TODO: Maybe, adjust the zoom to have a maximum or
    # minimum zoom level, here.

  init_bounds: ->
    @bounds = new google.maps.LatLngBounds()
    for marker in @markers
      @bounds.extend marker.position
    @map.fitBounds @bounds
```

[GoogleLatLngBounds](#) ◦

## json

[Googlejsonjavascript](#) ◦

`to_json`[ApplicationRecord](#) ◦

`label value longitude latitude ProfileFields::Address address_field.as_jsonHash`

```
address_field.as_json # =>
  {label: "Work address", value: "Willy-Brandt-Straße 1\n10557 Berlin",
   longitude: ..., latitude: ...}
```

`to_json`[json](#)

```
address_field.to_json # =>
  {"label\\":\\"Work address\\",\\"value\\":\\"Willy-Brandt-Straße 1\\n
  10557 Berlin\\",\\"longitude\\":...,\\"latitude\\":...}"
```

[javascript](#)`labelvalue` ◦

`as_json` ◦

`title``as_json`

```
# app/models/profile_fields/address.rb
class ProfileFields::Address < ProfileFields::Base
  # ...

  # For example: "John Doe, Work address"
  def title
    "#{self.parent.name}, #{self.label}"
  end

  def as_json
    super.merge {
      title: self.title
    }
  end
end
```

`super``as_json` ◦

`as_json``to_json``as_json` `to_json` ◦

[api](#)`position lng lat lng lat` ◦

## javascriptjson

positionjsonas\_json°

```
# app/models/profile_fields/address.rb
class ProfileFields::Address < ProfileFields::Base
  # ...

  def as_json
    super.merge {
      # ...
      position: {
        lng: self.longitude,
        lat: self.latitude
      }
    }
  end
end
```

GoogleMapsRails <https://riptutorial.com/zh-TW/ruby-on-rails/topic/2828/googlemapsrails>

# 34: HyperloopReact.jsRails

Hyperloop gemReact.jsRails

react-railsreact\_on\_rails gems。

javascript。

rubyjavascript。

Hyperloop“”ERBHAML。 HTTPWebDOM。

HyperloopARActiveRecord。

[http //ruby-hyperloop.io/](http://ruby-hyperloop.io/)

## Examples

### Railsruby

1. hyperloop gemrails4.0 - 5.1Gemfile
2. bundle install
3. hyperloopapplication.js

```
// app/assets/javascripts/application.js
...
//= hyperloop-loader
```

4. reacthyperloop/components

```
# app/hyperloop/components/hello_world.rb
class HelloWorld < Hyperloop::Component
  after_mount do
    every(1.second) { mutate.current_time(Time.now) }
  end
  render do
    "Hello World! The time is now: #{state.current_time}"
  end
end
```

5. ◦ render\_component“”

```
# somewhere in a controller:
...
def hello_world
  render_component # renders HelloWorld based on method name
end
```

```
class Hello < Hyperloop::Component
  # params (= react props) are declared using the param macro
```

```

    param :guest
    render do
      "Hello there #{params.guest}"
    end
  end
end

# to "mount" Hello with guest = "Matz" say
Hello(guest: 'Matz')

# params can be given a default value:
param guest: 'friend' # or
param :guest, default: 'friend'

```

## HTML

```

# HTML tags are built in and are UPCASE
class HTMLExample < Hyperloop::Component
  render do
    DIV do
      SPAN { "Hello There" }
      SPAN { "Welcome to the Machine!" }
    end
  end
end

```

```

# Event handlers are attached using the 'on' method
class ClickMe < Hyperloop::Component
  render do
    DIV do
      SPAN { "Hello There" }
      A { "Click Me" }.on(:click) { alert('you did it!') }
    end
  end
end

```

```

# States are read using the 'state' method, and updated using 'mutate'
# when states change they cause re-render of all dependent dom elements

class StateExample < Hyperloop::Component
  state count: 0 # by default states are initialized to nil
  render do
    DIV do
      SPAN { "Hello There" }
      A { "Click Me" }.on(:click) { mutate.count(state.count + 1) }
      DIV do
        "You have clicked me #{state.count} #{'time'.pluralize(state.count)}"
      end unless state.count == 0
    end
  end
end

```

## Hyperloop :: Stores

```

# all react callbacks are supported using active-record-like syntax

class SomeCallbacks < Hyperloop::Component

```

```
before_mount do
  # initialize stuff - replaces normal class initialize method
end
after_mount do
  # any access to actual generated dom node, or window behaviors goes here
end
before_unmount do
  # any cleanups (i.e. cancel intervals etc)
end

# you can also specify a method the usual way:
before_mount :do_some_more_initialization
end
```

[HyperloopReact.jsRails](https://riptutorial.com/zh-TW/ruby-on-rails/topic/9809/hyperloopreact-js-rails) <https://riptutorial.com/zh-TW/ruby-on-rails/topic/9809/hyperloopreact-js-rails>

---

# 35: RailsAngular

## Examples

### Angular with Rails 101

---

## 1 Rails

```
gem install rails -v 4.1
rails new angular_example
```

---

## 2 Turbolinks

turbolinksGemfile.

```
gem 'turbolinks'
```

app/assets/javascripts/application.jsrequire

```
//= require turbolinks
```

---

## 3 AngularJS

AngularRailsGemfile

```
gem 'angular-rails-templates'
gem 'bower-rails'
```

```
bundle install
```

bowerAngularJS

```
rails g bower_rails:initialize json
```

Angularbower.json

```
{
  "name": "bower-rails generated dependencies",
  "dependencies": {
    "angular": "latest",
```

```
"angular-resource": "latest",
"bourbon": "latest",
"angular-bootstrap": "latest",
"angular-ui-router": "latest"
}
}
```

bower.json

```
bundle exec rake bower:install
```

---

## 4Angular

app/assets/javascript/angular-app/

```
templates/
modules/
filters/
directives/
models/
services/
controllers/
```

app/assets/javascripts/application.js **AngularAngular**require ◦

```
//= require jquery
//= require jquery_ujs

//= require angular
//= require angular-rails-templates
//= require angular-app/app

//= require_tree ./angular-app/templates
//= require_tree ./angular-app/modules
//= require_tree ./angular-app/filters
//= require_tree ./angular-app/directives
//= require_tree ./angular-app/models
//= require_tree ./angular-app/services
//= require_tree ./angular-app/controllers
```

---

## 5Angular

app/assets/javascripts/angular-app/app.js.coffee

```
@app = angular.module('app', [ 'templates' ])

@app.config([ '$httpProvider', ($httpProvider)->
  $httpProvider.defaults.headers.common['X-CSRF-Token'] =
  $('meta[name=csrf-token]').attr('content') ]) @app.run(-> console.log 'angular app running'
)
```

app/assets/javascripts/angular-app/modules/example.js.coffee.erb



## Angular

```
@exampleApp = angular.module('app.exampleApp', [      # additional dependencies here  ])
.run(->      console.log 'exampleApp running'      )
```

app/assets/javascripts/angular-app/controllers/exampleCtrl.js.coffee **Angular**

```
angular.module('app.exampleApp').controller("ExampleCtrl", [ '$scope', ($scope)->
console.log 'ExampleCtrl running'      $scope.exampleValue = "Hello angular and rails"  ])
```

**RailsAngular** ◦ config/routes.rb

```
Rails.application.routes.draw do  get 'example' => 'example#index' end
```

## Rails

```
rails g controller Example
```

app/controllers/example\_controller.rb

```
class ExampleController < ApplicationController
  def index
    end
end
```

**AngularAngular** ◦ app/views/example/index.html.erb

```
<div ng-app='app.exampleApp' ng-controller='ExampleCtrl'>
  <p>Value from ExampleCtrl:</p>
  <p>{{ exampleValue }}</p>
</div>
```

**Rails** <http://localhost3000/example> ◦

**RailsAngular** <https://riptutorial.com/zh-TW/ruby-on-rails/topic/3902/railsangular>

---

# 36: react-rails gem Rails

## Examples

### rails\_react gem Rails

#### react-rails Gemfile

```
gem 'react-rails'
```

```
bundle install
```

```
rails g react:install
```

#### components.jsapp / assets / javascripts / components / application.js

```
//= require react  
//= require react_ujs  
//= require components
```

### react\_rails

#### React.js

#### React.js

```
# config/environments/development.rb  
MyApp::Application.configure do  
  config.react.variant = :development  
end
```

```
# config/environments/production.rb  
MyApp::Application.configure do  
  config.react.variant = :production  
end
```

```
MyApp::Application.configure do  
  config.react.addons = true # defaults to false  
end
```

#### Rails// = require reactReact.js

#### react-railsReact.js react-source gemReact.jsVERSIONS.md

#### JSX

react-rails。 .js.jsx。

BabelTransformer

babelbabel

```
config.react.jsx_transform_options = {
  blacklist: ['spec.functionName', 'validation.react', 'strict'], # default options
  optional: ["transformerName"], # pass extra babel options
  whitelist: ["useStrict"] # even more options[enter link description here][1]
}
```

react-rails[ruby-babel-transpiler](#)。

react-rails(react\_component) JavaScriptreact\_ujsReact。 UJSTurbolinksturbolinks。

divprops。

```
<%= react_component('HelloMessage', name: 'John') %>
<!-- becomes: -->
<div data-react-class="HelloMessage" data-react-
props="{&quot;name&quot;:&quot;John&quot;}"></div>
```

react\_ujsdata-react-classdata-react-props。

Turbolinkschange eventbefore-unload。 Turbolinks> = 2.4.0。

AjaxjavascriptUJS

ReactRailsUJS.mountComponents

```
react_component(component_class_name, props={}, html_options={})
```

component\_class\_name。 “MyApp.Header.MenuItem”。

```
`props` is either an object that responds to `#to_json` or an already-stringified JSON object (eg, made with Jbuilder, see note below).
```

html\_options tag:divdata-react-classdata-react-props。 prerender: true。 \*\*otherclassid :)  
content\_tag。

react-rails gemRails <https://riptutorial.com/zh-TW/ruby-on-rails/topic/7032/react-rails-gemrails>

# 37:

o

## Examples

- ADDITIONAL\_LOAD\_PATHS
- ARGF
- ARGV
- ActionController
- ActionView
- ActiveRecord
- ArgumentError
- 
- BasicSocket
- 
- BIGNUM
- 
- CGI
- CGIMethods
- CROSS\_COMPILING
- 
- ClassInheritableAttributes
- 
- ConditionVariable
- 
- 
- DRb
- DRbIdConv
- DRbObject
- DRbUndumped
- 
- 
- 
- Delegater
- 
- 
- ENV
- EOFError
- ERB
- 
- 
- 
- FalseClass
- FCNTL
- 
-

- FileTask
- FileTest
- 
- Fixnum
- 
- FloatDomainError
- GC
- 
- GetoptLong
- 
- IO
- IO
- IPSocket
- IPsocket
- IndexError
- 
- 
- 
- 
- LN\_SUPPORTED
- LoadError
- LocalJumpError
- 
- 
- MatchData
- MatchingData
- 
- 
- 
- 
- Mysql
- MySqlError
- MysqlField
- MysqlRes
- 
- NameError
- NilClass
- NoMemoryError
- NoMethodError
- NOWRITE
- NotImplementedError
- 
- OPT\_TABLE
- 
- 
- 
- 
- PGEError
- PGconn
- PGlarge
-

- PGresult
- 
- PStore
- ParseDate
- 
- PROC
- 
- 
- RAKEVERSION
- 
- 
- RUBY\_PLATFORM
- RUBY\_RELEASE\_DATE
- RUBY\_VERSION
- 
- 
- RakeApp
- RakeFileUtils
- 
- RangeError
- 
- 
- RegexpError
- 
- RuntimeError
- STDERR
- STDIN
- STDOUT
- ScanError
- ScriptError
- SecurityError
- 
- SignalException
- SimpleDelegater
- SimpleDelegator
- 
- SizedQueue
- 
- SocketError
- StandardError
- 
- StringScanner
- 
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- SyntaxError
- SystemCallError
- SystemExit
- SystemStackError
- TCPSERVER
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- to\_s
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- URI
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- created\_at
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- updated\_at
- updated\_on
- deleted\_at
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- 
- lock\_version
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- ID
- {} table\_name\_count
- 
- PARENT\_ID
- LFT
- RGT
- quote\_value

## Ruby

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- ELSIF
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---

# 38: ActiveRecord

ActiveModelActiveRecord。 ActiveRecordActiveRecord。

ActiveRecord。

## Examples

### ActiveModel :: Validations

。

```
class User
  include ActiveRecord::Validations

  attr_reader :name, :age

  def initialize(name, age)
    @name = name
    @age = age
  end

  validates :name, presence: true
  validates :age, numericality: { only_integer: true, greater_than: 12 }
end
```

```
User.new('John Smith', 28).valid? #=> true
User.new('Jane Smith', 11).valid? #=> false
User.new(nil, 30).valid?          #=> false
```

**ActiveModel** <https://riptutorial.com/zh-TW/ruby-on-rails/topic/1773/activemodel>

# 39: Rails

## Examples

Rails 4.2 Rails 5.0

*RailsGit*

---

Rails 4.2 Rails 5.0 Ruby 2.2.2 RubyGemfile

```
gem 'rails', '4.2.X'
```

```
gem 'rails', '~> 5.0.0'
```

```
$ bundle update
```

```
$ rake rails:update
```

◦

- -
- n -
- a -
- q -
- d - diff
- h -

◦

**Rails 5.0** ActiveRecordApplicationRecord ActiveRecord::Base ◦ ApplicationRecord

ApplicationController ◦ app/models/application\_record.rb

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

Rails 5.0 ◦ false Rails 4.2 ◦ Rails 4.2 Rails 5.0

```
ActiveSupport.halt_callback_chains_on_return_false = false
```

config/application.rb ◦ throw(:abort) ◦

**Rails 5.0** ActiveJobApplicationJob **Rails 4.2** ActiveJob::Base ◦ **Rails 5.0** app/jobs/application\_job.rb

◦

```
class ApplicationJob < ActiveJob::Base
end
```

ApplicationJobActiveJob::Base

**Rails 5.0** Rails bin/rails rails db:migrate rake db:migrate rails db:migrate bin/rails bin/railsrake

**Rails** <https://riptutorial.com/zh-TW/ruby-on-rails/topic/3496/rails>

---

## 40: ID

FriendlyIdActive Recordsluge""。URLID。FriendlyIdURL

<http://example.com/states/washington>

## Examples

### Rails

```
rails new my_app
cd my_app
```

---

## Gemfile

```
gem 'friendly_id', '~> 5.1.0' # Note: You MUST use 5.0.0 or greater for Rails 4.0+
rails generate friendly_id
rails generate scaffold user name:string slug:string:uniq
rake db:migrate
```

---

## app / models / user.rb

```
class User < ApplicationRecord
  extend FriendlyId
  friendly_id :name, use: :slugged
end

User.create! name: "Joe Schmoe"

# Change User.find to User.friendly.find in your controller
User.friendly.find(params[:id])
```

---

```
rails server
GET http://localhost:3000/users/joe-schmoe
```

---

```
# If you're adding FriendlyId to an existing app and need
# to generate slugs for existing users, do this from the
# console, runner, or add a Rake task:
User.find_each(&:save)
```

```
Finders are no longer overridden by default. If you want to do friendly finds, you must do
Model.friendly.find rather than Model.find. You can however restore FriendlyId 4-style finders
by using the :finders addon
```

```
friendly_id :foo, use: :slugged # you must do MyClass.friendly.find('bar')
#or...
friendly_id :foo, use: [:slugged, :finders] # you can now do MyClass.find('bar')
```

“”。

```
class Restaurant < ActiveRecord::Base
  extend FriendlyId
  friendly_id :slug_candidates, use: :slugged

  # Try building a slug based on the following fields in
  # increasing order of specificity.
  def slug_candidates
    [
      :name,
      [:name, :city],
      [:name, :street, :city],
      [:name, :street_number, :street, :city]
    ]
  end
end
```

## friendly\_id gem

```
def normalize_friendly_id(string)
  super[0..40]
end
```

ID <https://riptutorial.com/zh-TW/ruby-on-rails/topic/9664/id>

# 41:

## Examples

◦ ◦

OrdersControllerorders ◦ **Rails**/app/controllersorders\_controller.rb ◦

PostsControllerposts ◦

◦

PendingOrdersControllerpending\_orders\_controller.rb ◦

### MixedCase ◦

orders Order

posts Post

**Rails**/app/modelsorder.rb ◦

◦

BlogPostblog\_posts ◦

### Rails ◦

app/views ◦

PeopleController#index**Rails**

- app/views/layouts/ application people app/views/layouts/
- app/views/people/index.html.erb
- index\_new.html.erbPeopleController#index render 'index\_new'render 'index\_new'
- render 'index\_new', layout: 'your\_layout\_name'actionslayouts

### Rails - Ruby - lower\_snake\_case ◦

```
app/controllers/application_controller.rb
```

ApplicationController ◦ PascalCase ◦ lower\_snake\_case ◦

**Rails**“inflection”application\_controllerApplicationController ◦

**Rails**BlogPostblog\_post.rb ◦

◦ blog\_post.rbPostLoadError Expected [some path]/blog\_post.rb to define BlogPost ◦

app/something// models / products /

- ◦ app/models/products/ you would need to wrap your class in `Products``.
- `config.autoload_paths += %W( #{config.root}/app/models/products )` `application.rb` `autoload``.

Rails. “Foot”“FeetController”“FootController”rails””。

## Controller

### ControllerModelController

```
class MyModelController < ActionController::Base

  # Returns corresponding model class for this controller
  # @return [ActiveRecord::Base]
  def corresponding_model_class
    # ... add some validation
    controller_name.classify.constantize
  end
end
```

<https://riptutorial.com/zh-TW/ruby-on-rails/topic/1493/>



# 42:

STIBase◦

## Examples

```
class CreateUsers < ActiveRecord::Migration
  def change
    create_table :users do |t|
      t.string :name
      t.string :password
      t.string :type # <- This makes it an STI

      t.timestamps
    end
  end
end
```

```
class User < ActiveRecord::Base
  validates_presence_of :password
  # This is a parent class. All shared logic goes here
end

class Admin < User
  # Admins must have more secure passwords than regular users
  # We can add it here
  validates :custom_password_validation
end

class Guest < User
  # Lets say that we have a guest type login.
  # It has a static password that cannot be changed
  validates_inclusion_of :password, in: ['guest_password']
end
```

```
Guest.create(name: 'Bob') ActiveRecordUsers.type: 'Guest'◦
```

```
bob = User.where(name: 'Bob').firstGuestbob.becomes(User)bob.becomes(User)
```

```
/◦
```

STItype◦ inheritance\_column◦

```
class User < ActiveRecord::Base
  self.inheritance_column = :entity_type # can be string as well
end

class Admin < User; end
```

```
class CreateUsers < ActiveRecord::Migration
  def change
    create_table :users do |t|
      t.string :name
```

```
t.string :password
t.string :entity_type

t.timestamps
end
end
end
```

```
Admin.create usersentity_type = "Admin"
```

## RailsSTI

STIRails\_type:\_type\_disabled:\_type\_disabledinheritance\_column

```
class User < ActiveRecord::Base
  self.inheritance_column = :_type_disabled
end
```

<https://riptutorial.com/zh-TW/ruby-on-rails/topic/9125/>

# 43: HerokuRails

## Examples

RailsHeroku。

```
$ heroku create example
Creating ☐ example... done
https://example.herokuapp.com/ | https://git.heroku.com/example.git
```

URL <http://example.herokuapp.com>。 URL `git@heroku.com:example.git`gitURL。

git。 `heroku create`“heroku”gitURL。

“”。。 Heroku“blog”“wiki”。。

```
$ git push heroku master
remote: Compressing source files... done.
remote: Building source:
remote:
remote: -----> Ruby app detected
remote: -----> Compiling Ruby/Rails
remote: -----> Using Ruby version: ruby-2.3.1
remote: -----> Installing dependencies using bundler 1.11.2
remote:           Running: bundle install --without development:test --path vendor/bundle --
binstubs vendor/bundle/bin -j4 --deployment
remote:           Warning: the running version of Bundler is older than the version that created
the lockfile. We suggest you upgrade to the latest version of Bundler by running `gem install
bundler`.
remote:           Fetching gem metadata from https://rubygems.org/.....
remote:           Fetching version metadata from https://rubygems.org/...
remote:           Fetching dependency metadata from https://rubygems.org/..
remote:           Installing concurrent-ruby 1.0.2
remote:           Installing i18n 0.7.0
remote:           Installing rake 11.2.2
remote:           Installing minitest 5.9.0
remote:           Installing thread_safe 0.3.5
remote:           Installing builder 3.2.2
remote:           Installing mini_portile2 2.1.0
remote:           Installing erubis 2.7.0
remote:           Installing pkg-config 1.1.7
remote:           Installing rack 2.0.1
remote:           Installing nio4r 1.2.1 with native extensions
remote:           Installing websocket-extensions 0.1.2
remote:           Installing mime-types-data 3.2016.0521
remote:           Installing arel 7.0.0
remote:           Installing coffee-script-source 1.10.0
remote:           Installing execjs 2.7.0
remote:           Installing method_source 0.8.2
remote:           Installing thor 0.19.1
remote:           Installing multi_json 1.12.1
remote:           Installing puma 3.4.0 with native extensions
remote:           Installing pg 0.18.4 with native extensions
remote:           Using bundler 1.11.2
remote:           Installing sass 3.4.22
```

```
remote:      Installing tilt 2.0.5
remote:      Installing turbolinks-source 5.0.0
remote:      Installing tzinfo 1.2.2
remote:      Installing nokogiri 1.6.8 with native extensions
remote:      Installing rack-test 0.6.3
remote:      Installing sprockets 3.6.3
remote:      Installing websocket-driver 0.6.4 with native extensions
remote:      Installing mime-types 3.1
remote:      Installing coffee-script 2.4.1
remote:      Installing uglifier 3.0.0
remote:      Installing turbolinks 5.0.0
remote:      Installing activesupport 5.0.0
remote:      Installing mail 2.6.4
remote:      Installing globalid 0.3.6
remote:      Installing activemodel 5.0.0
remote:      Installing jbuilder 2.5.0
remote:      Installing activejob 5.0.0
remote:      Installing activerecord 5.0.0
remote:      Installing loofah 2.0.3
remote:      Installing rails-dom-testing 2.0.1
remote:      Installing rails-html-sanitizer 1.0.3
remote:      Installing actionview 5.0.0
remote:      Installing actionpack 5.0.0
remote:      Installing actionmailer 5.0.0
remote:      Installing railties 5.0.0
remote:      Installing actioncable 5.0.0
remote:      Installing sprockets-rails 3.1.1
remote:      Installing coffee-rails 4.2.1
remote:      Installing jquery-rails 4.1.1
remote:      Installing rails 5.0.0
remote:      Installing sass-rails 5.0.5
remote:      Bundle complete! 15 Gemfile dependencies, 54 gems now installed.
remote:      Gems in the groups development and test were not installed.
remote:      Bundled gems are installed into ./vendor/bundle.
remote:      Bundle completed (31.86s)
remote:      Cleaning up the bundler cache.
remote:      Warning: the running version of Bundler is older than the version that created
remote:      the lockfile. We suggest you upgrade to the latest version of Bundler by running `gem install
remote:      bundler`.
remote:      -----> Preparing app for Rails asset pipeline
remote:      Running: rake assets:precompile
remote:      I, [2016-07-08T17:08:57.046245 #1222] INFO -- : Writing
remote:      /tmp/build_49ba6c877f5502cd4029406e981f90b4/public/assets/application-
remote:      1bf5315c71171ad5f9cbef00193d56b7e45263ddc64caf676ce988cfbb6570bd.js
remote:      I, [2016-07-08T17:08:57.046951 #1222] INFO -- : Writing
remote:      /tmp/build_49ba6c877f5502cd4029406e981f90b4/public/assets/application-
remote:      1bf5315c71171ad5f9cbef00193d56b7e45263ddc64caf676ce988cfbb6570bd.js.gz
remote:      I, [2016-07-08T17:08:57.060208 #1222] INFO -- : Writing
remote:      /tmp/build_49ba6c877f5502cd4029406e981f90b4/public/assets/application-
remote:      e3b0c44298fcl1c149afb4f4c8996fb92427ae41e4649b934ca495991b7852b855.css
remote:      I, [2016-07-08T17:08:57.060656 #1222] INFO -- : Writing
remote:      /tmp/build_49ba6c877f5502cd4029406e981f90b4/public/assets/application-
remote:      e3b0c44298fcl1c149afb4f4c8996fb92427ae41e4649b934ca495991b7852b855.css.gz
remote:      Asset precompilation completed (4.06s)
remote:      Cleaning assets
remote:      Running: rake assets:clean
remote:
remote: ##### WARNING:
remote:      No Procfile detected, using the default web server.
remote:      We recommend explicitly declaring how to boot your server process via a
remote:      Procfile.
```

```
remote:      https://devcenter.heroku.com/articles/ruby-default-web-server
remote:
remote: -----> Discovering process types
remote:      Procfile declares types      -> (none)
remote:      Default types for buildpack -> console, rake, web, worker
remote:
remote: -----> Compressing...
remote:      Done: 29.2M
remote: -----> Launching...
remote:      Released v5
remote:      https://example.herokuapp.com/ deployed to Heroku
remote:
remote: Verifying deploy... done.
To https://git.heroku.com/example.git
 * [new branch]      master -> master
```

```
$ heroku run rake db:migrate
```

heroku runheroku runHeroku dyno shell

```
$ heroku run bash
```

## Webdyno

```
$ heroku ps:scale web=1
```

## heroku psdynos

```
$ heroku ps
=== web (Standard-1X): bin/rails server -p $PORT -e $RAILS_ENV (1)
web.1: starting 2016/07/08 12:09:06 -0500 (~ 2s ago)
```

heroku open

```
$ heroku open
```

Herokuherokuapp.comWeb URL . .

## Heroku

HerokuHeroku . . . . WindowsMacHerokuLinux

. Heroku . .

Heroku . .

```
$ heroku create --remote staging
Creating strong-river-216.... done
http://strong-river-216.herokuapp.com/ | https://git.heroku.com/strong-river-216.git
Git remote staging added
```

heroku CLI heroku git --remote Heroku git push heroku master

```
$ git push staging master
...
$ heroku ps --remote staging
=== web: `bundle exec puma -C config/puma.rb`
web.1: up for 21s
```

```
$ heroku create --remote production
Creating fierce-ice-327.... done
http://fierce-ice-327.herokuapp.com/ | https://git.heroku.com/fierce-ice-327.git
Git remote production added
$ git push production master
...
$ heroku ps --remote production
=== web: `bundle exec puma -C config/puma.rb`
web.1: up for 16s
```

Heroku - 。 。 '--remote' git config。

[HerokuRails https://riptutorial.com/zh-TW/ruby-on-rails/topic/4485/herokurails](https://riptutorial.com/zh-TW/ruby-on-rails/topic/4485/herokurails)

---

# 44: Rails

Rails Rails。 Rails。

## Examples

### Rails

```
config.frameworks
```

Symbol。

### Rails 1.x Rails

- ActionMailer
- ActionPack
- ActionWebService
- ActiveRecord
- ActiveSupport
- Railties

### Rails 2.x Rails

- ActionMailer
- ActionPack
- ActiveRecord
- ActiveSupport
- Railties

### Rails 3.x Rails

- ActionMailer
- ActionPack
- ActiveSupport
- Railties

Rails <https://riptutorial.com/zh-TW/ruby-on-rails/topic/8107/rails>

---

# 45: ActiveRecord

- `serialize: <field_plural_symbol>`

## Examples

`serialize`

`text`

`HashArray`

[serialize >> apidock.com](#)

---

```
class Users < ActiveRecord::Migration[5.0]
  def change
    create_table :users do |t|
      ...
      t.text :preference
      t.text :tag
      ...
      t.timestamps
    end
  end
end
```

---

```
class User < ActiveRecord::Base
  serialize :preferences, Hash
  serialize :tags, Array
end
```

[ActiveRecord](https://riptutorial.com/zh-TW/ruby-on-rails/topic/7602/activerecord) <https://riptutorial.com/zh-TW/ruby-on-rails/topic/7602/activerecord>



# 46:

API。

## Examples

### Figaro

```
gem 'figaro'Gemfilebundle install。 bundle exec figaro install ;config / application.yml.gitignore
```

application.yml

```
SECRET_NAME: secret_value
```

SECRET\_NAMEsecret\_valueAPI。

config / secrets.yml。

```
development:
  secret_name: <%= ENV["SECRET_NAME"] %>
test:
  secret_name: <%= ENV["SECRET_NAME"] %>
production:
  secret_name: <%= ENV["SECRET_NAME"] %>
```

some\_componentsecret\_name。 config / environments / development.rb

```
Rails.application.configure do
  config.some_component.configuration_hash = {
    :secret => Rails.application.secrets.secret_name
  }
end
```

Heroku。 config / environments / production.rbHeroku

```
$ figaro heroku:set -e production
```

<https://riptutorial.com/zh-TW/ruby-on-rails/topic/9711/>

---

# 47: Constantize

## Examples

### safe\_constantize

UserActiveRecordMongoid◦ UserRailsIntegerArray

```
my_string = "User" # Capitalized string
# => 'User'
my_constant = my_string.safe_constantize
# => User
my_constant.all.count
# => 18

my_string = "Array"
# => 'Array'
my_constant = my_string.safe_constantize
# => Array
my_constant.new(4)
# => [nil, nil, nil, nil]
```

### safe\_constantize

◦ "array" ◦

```
my_string = "not_a_constant"
# => 'not_a_constant'
my_string.safe_constantize
# => nil

my_string = "array" #Not capitalized!
# => 'array'
my_string.safe_constantize
# => nil
```

Constantize <https://riptutorial.com/zh-TW/ruby-on-rails/topic/3015/constantize>

---

# 48:

## Gemfile

Gemfile ◦ 2 ◦

◦

```
# temporary downgrade for TeamCity
gem 'rake', '~> 10.5.0'
# To upload invoicing information to payment provider
gem 'net-sftp'
```

## Examples

gemruby ◦

◦ ◦

---

# Rails

## Gemfile

RailsGemfile ◦ ◦ bundlergemBundler ◦

## Gemfile.lock

Gemfile.lockgem ◦ ◦

```
GEM
remote: https://rubygems.org/
specs:
  devise (4.0.3)
  bcrypt (~> 3.0)
  orm_adapter (~> 0.1)
  railties (>= 4.1.0, < 5.1)
  responders
  warden (~> 1.2.3)
```

devise ◦ Gemfile.lock4.0.3 ◦

---

◦ issuesfeatures ◦

2.0.0 ◦

gem bundler ◦ [Bundler](#) bower ◦

bundler ◦

```
gem install bundler
```

Gemfile Gemfile

```
bundle
```

◦ ◦ ◦

◦

## Gemfiles

gemfiles Ruby Gems URL ◦

bundle init rubygems.org Gemfile ◦ https SSL ◦

```
source 'https://rubygems.org'
```

◦

```
gem 'rails', '4.2.6'  
gem 'rack', '>=1.1'  
gem 'puma', '~>3.0'
```

> = 1.0 ◦ > ◦ > 2.0.3 > = 2.0.3 < 2.1 ◦ > 2.1 > = 2.1 < 3.0 ◦ > 2.2.beta 2.2.beta.12 ◦

repo gem Git gem ◦ :tag :branch :ref ◦ master ◦

```
gem 'nokogiri', :git => 'https://github.com/sparklemotion/nokogiri', :branch => 'master'
```

gem path gem ◦

```
gem 'extracted_library', :path => './vendor/extracted_library'
```

◦ --without Bundler.require ◦

```
gem 'rails_12factor', group: :production  
  
group :development, :test do  
  gem 'byebug'  
  gem 'web-console', '~> 2.0'  
  gem 'spring'  
  gem 'dotenv-rails'  
end
```

## GemfileRuby<sub>ruby</sub> ◦ GemfileRubyBundler◦

```
ruby '2.3.1'
```

## Gemsets

RVM(Ruby Version Manager)gemset◦ gemset◦ gemsetgemgem◦ ◦

RVM<sub>ruby</sub>> = 0.1.8 @global gemset ◦ ruby@global gemset@global gemset<sub>rubygemset</sub>◦ rubygem◦

### gemsets

ruby-2.3.1

```
rvm use ruby-2.3.1
```

### rubygemset

```
rvm gemset create new_gemset
```

new\_gemset<sub>gemset</sub>◦ rubygemset

```
rvm gemset list
```

### ruby

```
rvm gemset list_all
```

### gemset<sub>new\_gemset</sub>gemset

```
rvm gemset use new_gemset
```

### rubygemset<sub>ruby</sub>

```
rvm use ruby-2.1.1@new_gemset
```

### rubygemset

```
rvm use 2.1.1@new_gemset --default
```

### gemsetgem

```
rvm gemset empty new_gemset
```

### gemset<sub>ruby</sub>ruby

```
rvm gemset copy 2.1.1@rails4 2.1.2@rails4
```

## gemset

```
rvm gemset delete new_gemset
```

```
rvm gemset name
```

## gemsetgem

```
rvm @global do gem install ...
```

## RubyGemsets

### rubyRVMgemsetgemsetgemsetgem◦

```
~/ .rvm/gemsets rvmrubyglobal.gemsdefault.gems ◦ ree-1.8.7-p2010.02 rvm
```

```
~/ .rvm/gemsets/ree/1.8.7/p2010.02/global.gems  
~/ .rvm/gemsets/ree/1.8.7/p2010.02/default.gems  
~/ .rvm/gemsets/ree/1.8.7/global.gems  
~/ .rvm/gemsets/ree/1.8.7/default.gems  
~/ .rvm/gemsets/ree/global.gems  
~/ .rvm/gemsets/ree/default.gems  
~/ .rvm/gemsets/global.gems  
~/ .rvm/gemsets/default.gems
```

```
~/ .rvm/gemsets/global.gems
```

```
bundler  
awesome_print
```

```
rubygemset◦ rvmdefault.gemsglobal.gems◦
```

<https://riptutorial.com/zh-TW/ruby-on-rails/topic/3130/>

# 49: Amazon RDSrails

AWS RDSdatabase.yml。

## Examples

MYSQL RDSrails。

### MYSQL

1. RDS
2. Launch DB Instance
3. **MYSQL Community Edition**`select`
4. `production next step`
5. `mysql version, storage size, DB Instance Identifier, Master Username and Password next step`
6. `Database Name Launch DB Instance Database Name Launch DB Instance`
7. 。

### MySQLgemfile

```
gem 'mysql2'
```

```
bundle install
```

- PostgreSQL `gem 'pg'`
- Oracle `gem 'activerecord-oracle_enhanced-adapter'`
- SQL Server `gem 'sql_server'`

### database.ymlconfig / database.yml

```
production:
  adapter: mysql2
  encoding: utf8
  database: <%= RDS_DB_NAME %> # Which you have entered you creating database
  username: <%= RDS_USERNAME %> # db master username
  password: <%= RDS_PASSWORD %> # db master password
  host: <%= RDS_HOSTNAME %> # db instance endpoint
  port: <%= RDS_PORT %> # db post. For MYSQL 3306
```

Amazon RDSrails <https://riptutorial.com/zh-TW/ruby-on-rails/topic/10922/amazon-rdsrails>

# 50:

## Examples

### ActiveRecord UserFactoryGirl

```
FactoryGirl.define do
  factory :user do # it will guess the User class
    name      "John"
    email     "john@example.com"
  end
end
```

```
FactoryGirl.define do
  factory :user_jack, class: User do
    name      "Jack"
    email     "jack@example.com"
  end
end
```

### FactoryGirl

```
# To create a non saved instance of the User class filled with John's data
build(:user)
# and to create a non saved instance of the User class filled with Jack's data
build(:user_jack)
```

```
# Build returns a non saved instance
user = build(:user)

# Create returns a saved instance
user = create(:user)

# Attributes_for returns a hash of the attributes used to build an instance
attrs = attributes_for(:user)
```

<https://riptutorial.com/zh-TW/ruby-on-rails/topic/8330/>



# 51:

## Rails

- `date` `datetime` `date` `datetime` `time` `datetime-local` `time` `monthweek` **Firefox**
- `input<type="telephone">` **Safari 8**
- `input<type="email">` **Safari**

## Examples

`form_tag`

```
<%= form_tag do %>
  Form contents
<% end %>
```

## HTML

```
<form accept-charset="UTF-8" action="/" method="post">
  <input name="utf8" type="hidden" value="&#x2713;" />
  <input name="authenticity_token" type="hidden"
value="J7CBxfHalt49OSHp27hblqK20c9PgwJ108nDHX/8Cts=" />
  Form contents
</form>
```

`hidden` ◦

`authenticity_token` `cross-site request forgery` ◦

```
<%= form_tag("/search", method: "get") do %>
  <%= label_tag(:q, "Search for:") %>
  <%= text_field_tag(:q) %>
  <%= submit_tag("Search") %>
<% end %>
```

- `form_tag` ◦ `/search` **HTTP** ◦ `get`
- `label_tag` **html** `<label>` ◦
- `text_field_tag` `text` **input**
- `submit_tag` `submit` **input**

```
<%= check_box_tag(:pet_dog) %>
<%= label_tag(:pet_dog, "I own a dog") %>
<%= check_box_tag(:pet_cat) %>
<%= label_tag(:pet_cat, "I own a cat") %>
```

## html

```
<input id="pet_dog" name="pet_dog" type="checkbox" value="1" />
```

```
<label for="pet_dog">I own a dog</label>
<input id="pet_cat" name="pet_cat" type="checkbox" value="1" />
<label for="pet_cat">I own a cat</label>
```

```
<%= radio_button_tag(:age, "child") %>
<%= label_tag(:age_child, "I am younger than 18") %>
<%= radio_button_tag(:age, "adult") %>
<%= label_tag(:age_adult, "I'm over 18") %>
```

## HTML

```
<input id="age_child" name="age" type="radio" value="child" />
<label for="age_child">I am younger than 18</label>
<input id="age_adult" name="age" type="radio" value="adult" />
<label for="age_adult">I'm over 18</label>
```

text\_area\_tag

```
<%= text_area_tag(:message, "This is a longer text field", size: "25x6") %>
```

## HTML

```
<textarea id="message" name="message" cols="25" rows="6">This is a longer text
field</textarea>
```

input<type="number">

```
<%= number_field :product, :rating %>
```

in:

```
<%= number_field :product, :rating, in: 1..10 %>
```

◦ <input type="password">

```
<%= password_field_tag(:password) %>
```

<input type="email">

```
<%= email_field(:user, :email) %>
```

<input type="tel"> ◦

```
<%= telephone_field :user, :phone %>
```

• input[type="date"]

```
<%= date_field(:user, :reservation) %>
```

- `input [type="week"]`

```
<%= week_field(:user, :reservation) %>
```

- `input [type="year"]`

```
<%= year_field(:user, :reservation) %>
```

- `input [type="time"]`

```
<%= time_field(:user, :check_in) %>
```

```
@models = Model.all select_tag "models" options_from_collection_for_select @models "id" "name" {}
```

HTMLDavid

```
options { multiple: false, disabled: false, include_blank: false, prompt: false }
```

[http //apidock.com/rails/ActionView/Helpers/FormTagHelper/select\\_tag](http://apidock.com/rails/ActionView/Helpers/FormTagHelper/select_tag)

<https://riptutorial.com/zh-TW/ruby-on-rails/topic/4509/>

# 52: CSV

CSV。 CSV。 。

## Examples

### CSV

```
rails g model Product name:string quantity:integer price:decimal{12,2}
rake db:migrate
```

Lates。

```
rails g controller Products
```

```
class HistoriesController < ApplicationController
  def create
    file = Dir.glob("#{Rails.root}/public/products/**/*.csv") #=> This folder directory
    where read the CSV files
    file.each do |file|
      Product.import(file)
    end
  end
end
```

```
class Product < ApplicationRecord
  def self.import(file)
    CSV.foreach(file.path, headers: true) do |row|
      Product.create! row.to_hash
    end
  end
end
```

routes.rb

```
resources :products
```

// application.rb

```
require 'csv'
```

consolerun

```
=> ProductsController.new.create #=> Uploads your whole CSV files from your folder directory
```

CSV <https://riptutorial.com/zh-TW/ruby-on-rails/topic/8658/csv>

# 53:

## Examples

### Carrierwave

Rails: **CarrierwavePaperclip** ◦

### Carrierwave

```
bundle install Carrierwave
```

```
$ rails generate uploader ProfileUploader
```

*/app/uploaders/profile\_uploader.rb*

### MiniMagick

*tipeuser\_picuser.rb*◦

```
mount_uploader :user_pic, ProfileUploader
```

```
<% form_for @user, html: { multipart: true } do |f| %>
  <%= f.file_field :user_pic, accept: 'image/png, image/jpg' %>
  <%= f.submit "update profile pic", class: "btn" %>
<% end %>
```

{**multiparttrue**}◦ **Accept**◦

```
<%= image_tag @user.user_pic.url %>
```

-

◦ **belongs\_to**

```
rails g model ProductPhoto
```

```
#product.rb
has_many :product_photos, dependent: :destroy
accepts_nested_attributes_for :product_photos
```

```
#product_photo.rb
belongs_to :product
mount_uploader :image_url, ProductPhotoUploader # make sure to include uploader (Carrierwave
example)
```

*accepts\_nested\_attributes\_for*

/

```
<%= form_for @product, html: { multipart: true } do |product|%>

  <%= product.text_field :price # just normal type of field %>

  <%= product.fields_for :product_photos do |photo| # nested fields %>
    <%= photo.file_field :image, :multiple => true, name:
"product_photos[image_url][]" %>
    <% end %>
  <%= p.submit "Update", class: "btn" %>
<% end %>
```

```
# create an action
def upload_file
  printer = Product.find_by_id(params[:id])
  @product_photo = printer.product_photos.create(photo_params)
end

# strong params
private
def photo_params
  params.require(:product_photos).permit(:image)
end
```

```
<% @product.product_photos.each do |i| %>
  <%= image_tag i.image.url, class: 'img-rounded' %>
<% end %>
```

<https://riptutorial.com/zh-TW/ruby-on-rails/topic/2831/>

# 54:

`config.active_record.default_timezone = :local`  
<http://guides.rubyonrails.org/configuring.html>

## Rails UTC Active Record

```
# application.rb
config.time_zone = 'Eastern Time (US & Canada)'
```

## Rails

```
# application.rb
config.time_zone = 'Eastern Time (US & Canada)'
```

## UTC

`application.rb` Rails

`config.active_record.default_timezone`

- **local** `config.time_zone`
- **utc** UTC

```
rake time:zones:all
```

## Examples

### Rails UTC Active Record

```
# application.rb
config.time_zone = 'Eastern Time (US & Canada)'
```

### Rails Active Record

```
# application.rb
config.time_zone = 'Eastern Time (US & Canada)'
```

<https://riptutorial.com/zh-TW/ruby-on-rails/topic/3367/>

# 55: Rails

rails s°

## Examples

rails° development

```
rails s
```

-e

```
rails s -e test
```

°

~/ .bashrc

```
export RAILS_ENV=production in your
```

Passengerapache.conf° RailsEnv production°

```
<VirtualHost *:80>
  ServerName application_name.rails.local
  DocumentRoot "/Users/rails/application_name/public"
  RailsEnv production ## This is the default
</VirtualHost>
```

Rails <https://riptutorial.com/zh-TW/ruby-on-rails/topic/9915/rails>



---

# 56:

## Examples

- **Partials**

\_form.html.erb

```
partial render <%= render "form" %>
```

- 
- 

**partial**

```
<%= render :partial => 'form', locals: { post: @post } %>
```

**DRY Partial**

```
<head>_html_header.html.erb<head> <%= render 'html_header' %> ◦
```

---

```
to_partial_path<%= render @post %> ◦ ActiveRecord::posts/post @post views/posts/_post.html.erb ◦
```

```
post ◦ <%= render @post %><%= render @post %> <%= render 'posts/post', post: @post %> ◦
```

```
to_partial_path<%= render @posts %> ◦ ◦
```

---

**partial** views/application ◦ ◦

app/views/application/\_html\_header.html.erb:

```
<%= render 'html_header' %>
```

## AssetTagHelper

rails:css / js / images ◦

---

## IMAGE\_PATH

app/assets/images ◦

```
image_path("edit.png") # => /assets/edit.png
```

## IMAGE\_URL

URL`app/assets/images`

```
image_url("edit.png") # => http://www.example.com/assets/edit.png
```

## **IMAGE\_TAG**

`<img src="" />` -tag

```
image_tag("icon.png") # => 
```

---

# JavaScript

## **javascript\_include\_tag**

JavaScript

```
javascript_include_tag "application" # => <script src="/assets/application.js"></script>
```

## **javascript\_path**

JavaScript

```
javascript_path "application" # => /assets/application.js
```

## **javascript\_url**

JavaScriptURL

```
javascript_url "application" # => http://www.example.com/assets/application.js
```

---

## **stylesheet\_link\_tag**

CSS

```
stylesheet_link_tag "application" # => <link href="/assets/application.css" media="screen" rel="stylesheet" />
```

## **stylesheet\_path**

.

```
stylesheet_path "application" # => /assets/application.css
```

## stylesheet\_url

URL。

```
stylesheet_url "application" # => http://www.example.com/assets/application.css
```

**rails** app/views/layouts/application.html.erb app/views/layouts/application.html.erb

```
<%= stylesheet_link_tag 'application', media: 'all', 'data-turbolinks-track': 'reload' %>
<%= javascript_include_tag 'application', 'data-turbolinks-track': 'reload' %>
```

```
// CSS
<link rel="stylesheet" media="all" href="/assets/application.self-
e19d4b856cacba4f6fb0e5aa82a1ba9aa4ad616f0213a1259650b281d9cf6b20.css?body=1" data-turbolinks-
track="reload" />
// JavaScript
<script src="/assets/application.self-
619d9bf310b8eb258c67de7af745cafbf2a98f6d4c7bb6db8e1b00aed89eb0b1.js?body=1" data-turbolinks-
track="reload"></script>
```

**Rails MVC** Views “”。

articles\_controller.rb ◦ app/views/articles

```
app
|-- controllers
|   '-- articles_controller.rb
|
'-- views
    '-- articles
        |-- index.html.erb
        |-- edit.html.erb
        |-- show.html.erb
        |-- new.html.erb
        |-- _partial_view.html.erb
    |--
    '-- [...]
```

◦ ◦

```
// articles_controller.rb
class ArticlesController < ActionController::Base
  def show
    end
end

// show.html.erb
<h1>My show view</h1>
```

## HTML

htmlrails。 content\_forrails。

### content\_for

```
<div>
  <%= yield :header %>
</div>

<% content_for :header do %>
  <ul>
    <li>Line Item 1</li>
    <li>Line Item 2</li>
  </ul>
<% end %>
```

## HAML -

HAMLHTMLHTML。 HAML。 。 HAML。

```
#myview.html.erb
<h1><%= @the_title %></h1>
<p>This is my form</p>
<%= render "form" %>
```

## HAML

```
#myview.html.haml
%h1= @the_title
%p
  This is my form
= render 'form'
```

HTMLERB。

```
gem install haml
```

gemGemfile

```
gem "haml"
```

HAMLHTML / ERBsomething.html.erb something.html.haml。

## tips

div

HTML

```
<div class="myclass">My Text</div>
```

## HAML

```
%div.myclass
```

## HAML

```
.myclass
```

## HTML

```
<p class="myclass" id="myid">My paragraph</p>
```

## HAML

```
%p{:class => "myclass", :id => "myid"} My paragraph
```

## ruby

= - ruby。

```
= link_to "Home", home_path
```

=。

-。

HAML 。

<https://riptutorial.com/zh-TW/ruby-on-rails/topic/850/>

# 57: AASM

## Examples

### AASM

◦

[AASM](#)◦

[Fat ModelSkinny ControllerRails](#)◦ ◦

### Gemfile

```
gem 'aasm'
```

◦

```
class Quote

  include AASM

  aasm do
    state :requested, initial: true # User sees a product and requests a quote
    state :priced # Seller sets the price
    state :payed # Buyer pays the price
    state :canceled # The buyer is not willing to pay the price
    state :completed # The product has been delivered.

    event :price do
      transitions from: :requested, to: :priced
    end

    event :pay do
      transitions from: :priced, to: :payed, success: :set_payment_date
    end

    event :complete do
      transitions from: :payed, to: :completed, guard: product_delivered?
    end

    event :cancel do
      transitions from: [:requested, :priced], to: :canceled
      transitions from: :payed, to: :canceled, success: :reverse_charges
    end

  end

  private

  def set_payment_date
    update payed_at: Time.zone.now
  end
end
```

```
end
```

## Quote

◦ ◦ ◦

## Ruby on Rails

valid end being

## AASM

```
Quote.priced # Shows all Quotes with priced events
quote.priced? # Indicates if that specific quote has been priced
quote.price! # Triggers the event the would transition from requested to priced.
```

◦ ◦

```
guard: product_delivered?
```

product\_delivered? ◦ **false** ◦

```
success: :reverse_charges
```

:reverse\_charges ◦

## AASM

**AASM** <https://riptutorial.com/zh-TW/ruby-on-rails/topic/7826/-aasm>

# 58:

## Examples

1.

◦

```
resources :articles, shallow: true do
  resources :comments
  resources :quotes
  resources :drafts
end
```

DSL◦

```
shallow do
  resources :articles do
    resources :comments
    resources :quotes
    resources :drafts
  end
end
```

◦ shallow\_path

```
scope shallow_path: "sekret" do
  resources :articles do
    resources :comments, shallow: true
  end
end
```

Rake Command

```
rake routes
```

<https://riptutorial.com/zh-TW/ruby-on-rails/topic/7775/>



---

# 59:

rails。

1. `gem 'rails_admin' > 1.0`
- 2.
3. `rails g rails_admin`
4. Enter。
5. `app / config / initializers / rails_admin.rb`  
`config.authorize_with do redirect_to`  
`main_app.root_path(current_user.try(:admin_your_site).com/admin)`
6. gem。 [https://github.com/sferik/rails\\_admin/wiki](https://github.com/sferik/rails_admin/wiki)

◦ `active_admin gem` ◦ 4. `cancan`。

## Examples

`rails_admin gem`。

◦


NAVIGATION

[Blogs](#)


[Users](#)

# Site Administration

Dashboard

 Dashboard

Model name	Last created	Records
------------	--------------	---------

<a href="#">Blogs</a>	about 7 hours ago	
-----------------------	-------------------	---

<a href="#">Users</a>	about 23 hours ago	
-----------------------	--------------------	---

NAVIGATION

Blogs

Users

# List of Users

Dashboard / Users

List

+ Add new

Export

Filter

Refresh



<input type="checkbox"/>	Id	Email	Reset password sent at	Remember c
<input type="checkbox"/>	2	2@gmail.com	-	-
<input type="checkbox"/>	1	1@gmail.com	-	-

2 users

## NAVIGATION

Blogs

Users

# List of Blogs

[Dashboard](#) / [Blogs](#)

☰ List

+ Add new

📄 Export

Filter

↻ Refresh

✕

<input type="checkbox"/>	Id	Title	Content	Created at
<input type="checkbox"/>	7	Post 3	Test content	December 07, 2016 08:19
<input type="checkbox"/>	6	Post 2	test content	December 06, 2016 16:16
<input type="checkbox"/>	5	Post 1	test content	December 06, 2016 16:16

3 blogs

<https://riptutorial.com/zh-TW/ruby-on-rails/topic/8128/>

---

# 60: Rails

## Examples

◦ ◦

```
let(:gift) { create :gift }

describe '#find' do
  subject { described_class.find(user, Time.zone.now.to_date) }
  it { is_expected.to eq gift }
end
```

◦

◦

```
it 'allows the user to set their preferences' do
  check 'Ruby'
  click_on 'Save and Continue'
  expect(user.languages).to eq ['Ruby']
end
```

javascript◦

**Rails** <https://riptutorial.com/zh-TW/ruby-on-rails/topic/7853/rails>

# 61:

◦

## Examples

```
class Post < ActiveRecord::Base
  belongs_to :user
  has_many :comments

  validates :user, presence: true
  validates :title, presence: true, length: { in: 6..40 }

  scope :topic, -> (topic) { joins(:topics).where(topic: topic) }

  before_save :update_slug
  after_create :send_welcome_email

  def publish!
    update(published_at: Time.now, published: true)
  end

  def self.find_by_slug(slug)
    find_by(slug: slug)
  end

  private

  def update_slug
    self.slug = title.join('-')
  end

  def send_welcome_email
    WelcomeMailer.welcome(self).deliver_now
  end
end
```

- 
- 
- 
- ◦

◦

◦ ◦

- 
- 
- 
- 

◦ “” ◦ User CartProduct -

ActiveRecord::Base ◦ ◦ ◦

Ruby ◦ ◦ CreateUserAccountUserCreationUserCreationService ◦ app / services ◦ Rails ◦

◦ ◦

```
# app/services/accept_invite.rb
class AcceptInvite
  def self.call(invite, user)
    invite.accept!(user)
    UserMailer.invite_accepted(invite).deliver
  end
end
```

app/services directory ◦ ◦

- app/services/invite/accept.rb Invite::Accept app/services/invite/create.rb Invite::Create
- ApproveTransaction SendTestNewsletter ImportUsersFromCsv
- call ◦ ApproveTransaction.approve() ◦ call lambda proc s method ◦

services ApproveTransaction CancelTransaction BlockAccount SendTransactionApprovalReminder .....

◦ ActiveRecord "" ◦

cookie ◦

```
class InviteController < ApplicationController
  def accept
    invite = Invite.find_by_token!(params[:token])
    if AcceptInvite.call(invite, current_user)
      redirect_to invite.item, notice: "Welcome!"
    else
      redirect_to '/', alert: "Oopsy!"
    end
  end
end
```

◦

```
class Invite < ActiveRecord::Base
  def accept!(user, time=Time.now)
    update_attributes!(
      accepted_by_user_id: user.id,
      accepted_at: time
    )
  end
end
```

- 
- OrderCreditCardCustomer
- 
- ◦
- ◦

[Adam Niedzielski](#)

[Brew House](#)

<https://riptutorial.com/zh-TW/ruby-on-rails/topic/7623/>



---

## 62: ActionMailer

Action Mailer ◦ ActionMailer :: Baseapp / mailersapp / views ◦

Web ◦ delayed\_job ◦

### Examples

- 
- 
- html
- 

approvedpost approved ◦ post html ◦ "" ◦

---

## user\_mailer.rb

```
class UserMailer < ActionMailer::Base
  default from: "donotreply@example.com"

  def approved(post)
    @title = post.title
    @user = post.user
    mail(to: @user.email, subject: "Your Post was Approved!")
  end
end
```

---

## user.rb

```
def approved(post)
  UserMailer.new.approved(post)
end
```

---

## approved.html.erb

```
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
  <head>
    <meta http-equiv="Content-Type" content="text/html; charset=utf-8">
    <title>Post Approved</title>
  </head>
  <body>
    <h2>Congrats <%= @user.name %>! Your post (<%= @title %>) has been approved!</h2>
    <p>We look forward to your future posts!</p>
  </body>
```

```
</html>
```

## approved.text.erb

```
Congrats <%= @user.name %>! Your post (#<%= @title %>) has been approved!  
We look forward to your future posts!
```

```
rails generate mailer PostMailer
```

app/mailers/post\_mailer.rb *PostMailer*

```
class PostMailer < ApplicationMailer  
end
```

### html

◦ ActionMailer::Base

ActionMailer◦

```
attachments['filename.jpg'] = File.read('/path/to/filename.jpg')
```

Base64◦ ◦

```
attachments['filename.jpg'] = {  
  mime_type: 'application/gzip',  
  encoding: 'SpecialEncoding',  
  content: encoded_content  
}
```

```
attachments.inline['image.jpg'] = File.read('/path/to/image.jpg')
```

## ActionMailer

### ActionMailer

- before\_action
- after\_action
- around\_action

### Mailer

```
class UserMailer < ApplicationMailer  
  after_action :set_delivery_options, :prevent_delivery_to_guests, :set_business_headers
```

```
private
```

```
private
  def set_delivery_options
  end

  def prevent_delivery_to_guests
  end

  def set_business_headers
  end
end
```

```
rails g model Newsletter name:string email:string

subl app/models/newsletter.rb

validates :name, presence: true
validates :email, presence: true
```

```
rails g controller Newsletters create

class NewslettersController < ApplicationController
  skip_before_action :authenticate_user!
  before_action :set_newsletter, only: [:destroy]

  def create
    @newsletter = Newsletter.create(newsletter_params)
    if @newsletter.save
      redirect_to blog_index_path
    else
      redirect_to root_path
    end
  end

  private

  def set_newsletter
    @newsletter = Newsletter.find(params[:id])
  end

  def newsletter_params
    params.require(:newsletter).permit(:name, :email)
  end
end
```

**create.html.erb** x **\_form.html.erb** .

```
app / views / newsletters / create.html.erb  app / views / newsletters / _form.html.erb
```

```
subl app/config/routes.rb

resources :newsletters
```

```
subl app/views/newsletters/_form.html.erb
```

```

<%= form_for (Newsletter.new) do |f| %>
  <div class="col-md-12" style="margin: 0 auto; padding: 0;">
    <div class="col-md-6" style="padding: 0;">
      <%= f.text_field :name, class: 'form-control', placeholder:'Nombre' %>
    </div>
    <div class="col-md-6" style="padding: 0;">
      <%= f.text_field :email, class: 'form-control', placeholder:'Email' %>
    </div>
  </div>
  <div class="col-md-12" style="margin: 0 auto; padding:0;">
    <%= f.submit class:"col-md-12 tran3s s-color-bg hvr-shutter-out-horizontal",
style:'border: none; color: white; cursor: pointer; margin: 0.5em auto; padding: 0.75em;
width: 100%;' %>
  </div>
<% end %>

```

```

subl app/views/layouts/_footer.html.erb

```

```

<%= render 'newsletters/form' %>

```

- **letter\_opener** - . . .

gembundle.

```

subl your_project/Gemfile

gem "letter_opener", :group => :development

```

```

subl your_project/app/config/environments/development.rb

config.action_mailer.delivery_method = :letter_opener

```

.

```

rails generate mailer UserMailer newsletter_mailer

```

**UserMailer Newsletter Mailerrake**. . .

```

subl your_project/app/mailers/user_mailer.rb

class UserMailer 'your_gmail_account@gmail.com'

  def newsletter_mailer
    @newsletter = Newsletter.all
    @post = Post.last(3)
    emails = @newsletter.collect(&:email).join(", ")
    mail(to: emails, subject: "Hi, this is a test mail.")
  end

end

```

**Mailer**

```

subl your_project/app/views/user_mailer/newsletter_mailer.html.erb

<p> Dear Followers: </p>
<p> Those are the latest entries to our blog. We invite you to read and share everything we
did on this week. </p>

<br/>
<table>
<% @post.each do |post| %>
  <%#= link_to blog_url(post) do %>
    <tr style="display:flex; float:left; clear:both;">
      <td style="display:flex; float:left; clear:both; height: 80px; width: 100px;">
        <% if post.cover_image.present? %>
          <%= image_tag post.cover_image.fullsize.url, class:"principal-home-image-slider"
%>
        <%# else %>
          <%#= image_tag 'http://your_site_project.com' + post.cover_video,
class:"principal-home-image-slider" %>
          <%#= raw(video_embed(post.cover_video)) %>
        <% end %>
      </td>
      <td>
        <h3>
          <%= link_to post.title, :controller => "blog", :action => "show", :only_path =>
false, :id => post.id %>
        </h3>
        <p><%= post.subtitle %></p>
      </td>
      <td style="display:flex; float:left; clear:both;">

    </td>
  </tr>
<%# end %>
<% end %>
</table>

```

## Rake. email\_tasks.rakeRailslib / tasks

```

touch lib/taks/email_tasks.rake

desc 'weekly newsletter email'
task weekly_newsletter_email: :environment do
  UserMailer.newsletter_mailer.deliver!
end

```

send\_digest\_email ::RailsUserMailer.

rake -TRake. ◦

rake

```
rake weekly_newsletter_email
```

rakecrontab. Whenever Gem cron.

```
subl your_project/Gemfile
```

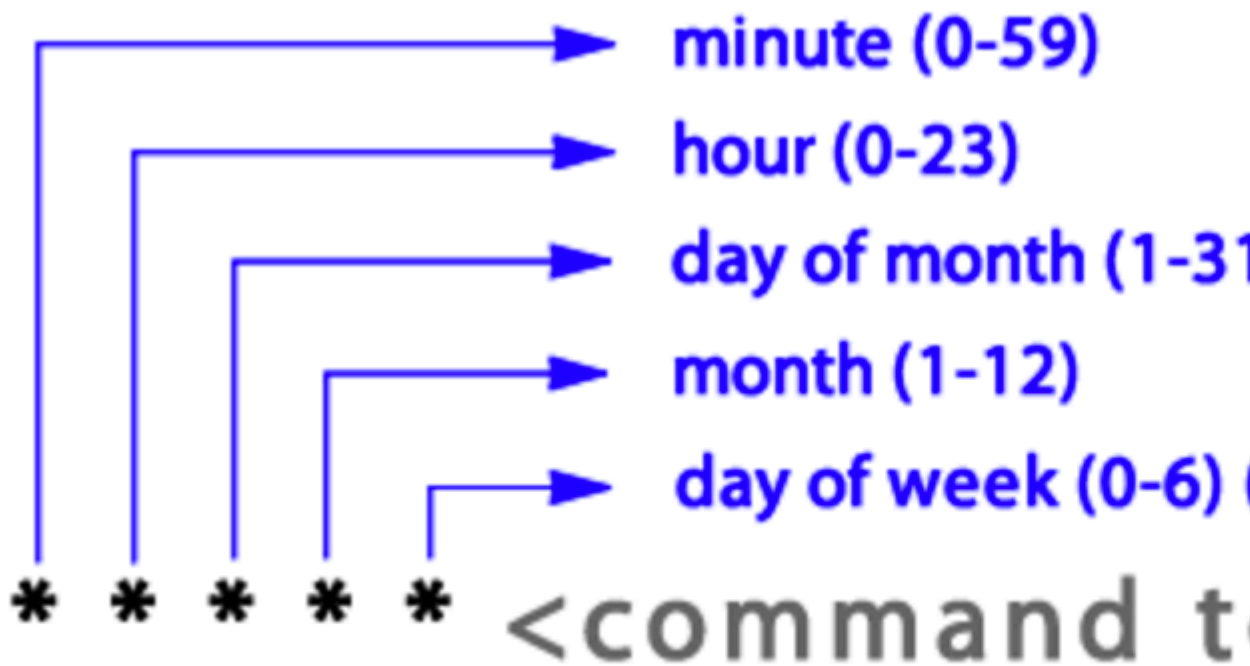
```
gem 'whenever', require: false
```

config / schedule.rb

```
wheneverize .  
  
[add] writing `./config/schedule.rb`  
[done] wheneverized!
```

**CRON JOB** CRON JOB

```
subl your_project/config/schedule.rb  
  
every 1.day, :at => '4:30 am' do  
  rake 'weekly_newsletter_email'  
end
```



```
every 3.hours do # 1.minute 1.day 1.week 1.m
  runner "MyModel.some_process"
  rake "my:rake:task"
  command "/usr/bin/my_great_command"
end

every 1.day, :at => '4:30 am' do
  runner "MyModel.task_to_run_at_four_thirty"
end

every :hour do # Many shortcuts available: :
  runner "SomeModel.ladeeda"
end

every :sunday, :at => '12pm' do # Use any da
  runner "Task.do_something_great"
end

every '0 0 27-31 * *' do
  command "echo 'you can use raw cron syntax'"
end

# run this task only on servers with the :ap
# see Capistrano roles section below
every :day, :at => '12:20am', :roles => [:ap
  rake "app_server:task"
end
```

```
30 4 * * * /bin/bash -l -c 'cd /Users/your_mac_user/Desktop/your_project &&
RAILS_ENV=production bundle exec rake weekly_newsletter_email --silent'
```

## application.rb

```
subl your_project/config/application.rb

config.action_mailer.default_url_options = { :host => "http://localhost:3000/" }
```

## Capistrano V3Cron Job

```
subl your_project/Capfile

require 'whenever/capistrano'
```

## CRON JOB

```
subl your_project/config/deploy.rb

set :whenever_identifier, ->{ "#{fetch(:application)}_#{fetch(:rails_env)}" }
```

## capistrano deploy

```
cap production deploy
```

## JOBMailer

## ActionMailer

### Action Mailer

### deliver\_emailmessage Mail :: Message

.

```
# config/initializers/override_mail_recipient.rb

if Rails.env.development? or Rails.env.test?
  class OverrideMailRecipient
    def self.delivering_email(mail)
      mail.subject = 'This is dummy subject'
      mail.bcc = 'test_bcc@noemail.com'
      mail.to = 'test@noemail.com'
    end
  end
  ActionMailer::Base.register_interceptor(OverrideMailRecipient)
end
```

ActionMailer <https://riptutorial.com/zh-TW/ruby-on-rails/topic/2481/actionmailer>



---

# 63: ActiveSupport

ActiveSupportRailsgem。

monkeypatching Ruby。 ◦

## Examples

---

◦ String#[ ]◦

```
str = "hello"
str.at(0)      # => "h"
str.at(1..3)   # => "ell"
str.at(-2)     # => "l"
str.at(-2..-1) # => "lo"
str.at(5)      # => nil
str.at(5..-1)  # => ""
```

---

◦

```
str = "hello"
str.from(0)   # => "hello"
str.from(3)   # => "lo"
str.from(-2)  # => "lo"
```

---

◦

◦

```
str = "hello"
str.to(0)    # => "h"
str.to(3)    # => "hell"
str.to(-2)   # => "hell"
```

fromto◦

```
str = "hello"
str.from(0).to(-1) # => "hello"
str.from(1).to(-2) # => "ell"
```

---

◦

```
str = "hello"
str.first # => "h"
```

```
str.first(1) # => "h"  
str.first(2) # => "he"  
str.first(0) # => ""  
str.first(6) # => "hello"
```

◦

```
str = "hello"  
str.last # => "o"  
str.last(1) # => "o"  
str.last(2) # => "lo"  
str.last(0) # => ""  
str.last(6) # => "hello"
```

/

---

## TO\_TIME

◦ form:utc:local :local ◦

```
"13-12-2012".to_time # => 2012-12-13 00:00:00 +0100  
"06:12".to_time # => 2012-12-13 06:12:00 +0100  
"2012-12-13 06:12".to_time # => 2012-12-13 06:12:00 +0100  
"2012-12-13T06:12".to_time # => 2012-12-13 06:12:00 +0100  
"2012-12-13T06:12".to_time(:utc) # => 2012-12-13 06:12:00 UTC  
"12/13/2012".to_time # => ArgumentError: argument out of range
```

---

## TO\_DATE

Date◦

```
"1-1-2012".to_date # => Sun, 01 Jan 2012  
"01/01/2012".to_date # => Sun, 01 Jan 2012  
"2012-12-13".to_date # => Thu, 13 Dec 2012  
"12/13/2012".to_date # => ArgumentError: invalid date
```

---

## to\_datetime

DateTime◦

```
"1-1-2012".to_datetime # => Sun, 01 Jan 2012 00:00:00 +0000  
"01/01/2012 23:59:59".to_datetime # => Sun, 01 Jan 2012 23:59:59 +0000  
"2012-12-13 12:50".to_datetime # => Thu, 13 Dec 2012 12:50:00 +0000  
"12/13/2012".to_datetime # => ArgumentError: invalid date
```

String#include?String#include?

```
"hello".exclude? "lo" # => false
"hello".exclude? "ol" # => true
"hello".exclude? ?h  # => false
```

◦ squish!◦

ASCIIUnicode◦

```
%{ Multi-line
  string }.squish # => "Multi-line string"
" foo  bar  \n  \t  boo".squish # => "foo bar boo"
```

◦ remove!◦

```
str = "foo bar test"
str.remove(" test") # => "foo bar"
str.remove(" test", /bar/) # => "foo "
```

◦

```
'Once upon a time in a world far far away'.truncate(27)
# => "Once upon a time in a wo..."
```

:separator

```
'Once upon a time in a world far far away'.truncate(27, separator: ' ')
# => "Once upon a time in a..."
```

```
'Once upon a time in a world far far away'.truncate(27, separator: /\s/)
# => "Once upon a time in a..."
```

## truncate\_words

◦

```
'Once upon a time in a world far far away'.truncate_words(4)
# => "Once upon a time..."
```

```
'Once<br>upon<br>a<br>time<br>in<br>a<br>world'.truncate_words(5, separator: '<br>')
# => "Once<br>upon<br>a<br>time<br>in..."
```

:omission“...”

```
'And they found that many people were sleeping better.'.truncate_words(5, omission: '...
(continued)')
# => "And they found that many... (continued)"
```

---

## strip\_heredoc

heredocs ◦

```
if options[:usage]
  puts <<-USAGE.strip_heredoc
  This command does such and such.

  Supported options are:
    -h          This message
    ...
  USAGE
end
```

```
This command does such and such.

Supported options are:
-h          This message
...
```

---

◦ count == lcount ◦ locale ◦

```
'post'.pluralize           # => "posts"
'octopus'.pluralize        # => "octopi"
'sheep'.pluralize          # => "sheep"
'words'.pluralize          # => "words"
'the blue mailman'.pluralize # => "the blue mailmen"
'CamelOctopus'.pluralize   # => "CamelOctopi"
'apple'.pluralize(1)       # => "apple"
'apple'.pluralize(2)       # => "apples"
'ley'.pluralize(:es)       # => "leyes"
'ley'.pluralize(1, :es)    # => "ley"
```

---

## singularize

◦ locale ◦

```
'posts'.singularize        # => "post"
'octopi'.singularize       # => "octopus"
'sheep'.singularize        # => "sheep"
'word'.singularize         # => "word"
'the blue mailmen'.singularize # => "the blue mailman"
'CamelOctopi'.singularize  # => "CamelOctopus"
'leyes'.singularize(:es)   # => "ley"
```

# constantize

◦ `CamelCaseNameError` ◦

```
'Module'.constantize # => Module
'Class'.constantize  # => Class
'blargle'.constantize # => NameError: wrong constant name blargle
```

---

# safe\_constantize

`constantize` `nil` `NameError` ◦

```
'Module'.safe_constantize # => Module
'Class'.safe_constantize  # => Class
'blargle'.safe_constantize # => nil
```

---

# camelize

`UpperCamelCase:lowerparamlowerCamelCase:lower` ◦

`camelcase`

`/::` ◦

```
'active_record'.camelize           # => "ActiveRecord"
'active_record'.camelize(:lower)    # => "activeRecord"
'active_record/errors'.camelize     # => "ActiveRecord::Errors"
'active_record/errors'.camelize(:lower) # => "activeRecord::Errors"
```

---

# titleize

◦

`titlecase`

```
'man from the boondocks'.titleize # => "Man From The Boondocks"
'x-men: the last stand'.titleize  # => "X Men: The Last Stand"
```

◦ `camelize` ◦

`underscore::to / to` ◦

```
'ActiveModel'.underscore          # => "active_model"
```

```
'ActiveModel::Errors'.underscore # => "active_model/errors"
```

---

## dasherize

◦

```
'puni_puni'.dasherize # => "puni-puni"
```

---

## demodulize

◦

```
'ActiveRecord::CoreExtensions::String::Inflections'.demodulize # => "Inflections"
'Inflections'.demodulize # => "Inflections"
'::Inflections'.demodulize # => "Inflections"
''.demodulize # => ''
```

---

## deconstantize

◦

```
'Net::HTTP'.deconstantize # => "Net"
'::Net::HTTP'.deconstantize # => "::Net"
'String'.deconstantize # => ""
'::String'.deconstantize # => ""
''.deconstantize # => ""
```

---

“”URL◦

```
"Donald E. Knuth".parameterize # => "donald-e-knuth"
```

:preserve\_case:preserve\_case◦

```
"Donald E. Knuth".parameterize(preserve_case: true) # => "Donald-E-Knuth"
```

parameterize to\_param ActiveRecordURL◦

```
class Person < ActiveRecord::Base
  def to_param
    "#{id}-#{name.parameterize}"
  end
end

Person.find(1).to_param # => "1-donald-e-knuth"
```

---

# tableize

## Rails ◦ ◦

```
'RawScaledScorer'.tableize # => "raw_scaled_scorers"  
'ham_and_egg'.tableize    # => "ham_and_eggs"  
'fancyCategory'.tableize  # => "fancy_categories"
```

---

## Rails ◦

```
'ham_and_eggs'.classify # => "HamAndEgg"  
'posts'.classify       # => "Post"
```

---

## \_id ◦

```
'employee_salary'.humanize      # => "Employee salary"  
'author_id'.humanize            # => "Author"  
'author_id'.humanize(capitalize: false) # => "author"  
'_id'.humanize                  # => "Id"
```

---

# upcase\_first

◦

```
'what a Lovely Day'.upcase_first # => "What a Lovely Day"  
'w'.upcase_first                 # => "W"  
''.upcase_first                  # => ""
```

---

# foreign\_key

◦ false paramnameid\_ ◦

```
'Message'.foreign_key      # => "message_id"  
'Message'.foreign_key(false) # => "messageid"  
'Admin::Post'.foreign_key  # => "post_id"
```

ActiveSupport <https://riptutorial.com/zh-TW/ruby-on-rails/topic/4490/activesupport>

# 64:

DockerRails

## Examples

### Dockerdocker-compose

Dockerfile ◦ Nick Janetakis ◦

docker ◦ PumaRoR

```
# Use the barebones version of Ruby 2.3.
FROM ruby:2.3.0-slim

# Optionally set a maintainer name to let people know who made this image.
MAINTAINER Nick Janetakis <nick.janetakis@gmail.com>

# Install dependencies:
# - build-essential: To ensure certain gems can be compiled
# - nodejs: Compile assets
# - libpq-dev: Communicate with postgres through the postgres gem
RUN apt-get update && apt-get install -qq -y --no-install-recommends \
    build-essential nodejs libpq-dev git

# Set an environment variable to store where the app is installed to inside
# of the Docker image. The name matches the project name out of convention only.
ENV INSTALL_PATH /mh-backend
RUN mkdir -p $INSTALL_PATH

# This sets the context of where commands will be running in and is documented
# on Docker's website extensively.
WORKDIR $INSTALL_PATH

# We want binstubs to be available so we can directly call sidekiq and
# potentially other binaries as command overrides without depending on
# bundle exec.
COPY Gemfile* $INSTALL_PATH/

ENV BUNDLE_GEMFILE $INSTALL_PATH/Gemfile
ENV BUNDLE_JOBS 2
ENV BUNDLE_PATH /gembox

RUN bundle install

# Copy in the application code from your work station at the current directory
# over to the working directory.
COPY . .

# Ensure the static assets are exposed to a volume so that nginx can read
# in these values later.
VOLUME ["$INSTALL_PATH/public"]

ENV RAILS_LOG_TO_STDOUT true
```



```
# The default command that gets run will be to start the Puma server.  
CMD bundle exec puma -C config/puma.rb
```

`docker-compose` `docker-compose.yml` ◦ `docker-compose` `Rails` ◦

```
version: '2'  
  
services:  
  backend:  
    links:  
      - #whatever you need to link like db  
    build: .  
    command: ./scripts/start.sh  
    ports:  
      - '3000:3000'  
    volumes:  
      - ./backend  
    volumes_from:  
      - gembox  
    env_file:  
      - .dev-docker.env  
    stdin_open: true  
    tty: true
```

`docker-compose up` `docker`

<https://riptutorial.com/zh-TW/ruby-on-rails/topic/10933/>

---

# 65:

## Examples

Rails 4.2Active Job。 Active Jobs。

```
class UserUnsubscribeJob < ApplicationJob
  queue_as :default

  def perform(user)
    # this will happen later
    user.unsubscribe
  end
end
```

```
$ rails g job user_unsubscribe
```

<https://riptutorial.com/zh-TW/ruby-on-rails/topic/8033/>

---

# 66:

## Examples

config/YAML config/neo4j.yml

neo4j.yml default

```
default: &default
  host: localhost
  port: 7474
  username: neo4j
  password: root

development:
  <<: *default

test:
  <<: *default

production:
  <<: *default
```

config/application.rb

```
module MyApp
  class Application < Rails::Application
    config.neo4j = config_for(:neo4j)
  end
end
```

```
Rails.configuration.neo4j['host']
#=> localhost
Rails.configuration.neo4j['port']
#=> 7474
```

---

RailsAPI config\_for

Railsconfig / foo.yml

---

yaml

config.x Rails

```
config.x.payment_processing.schedule = :daily
config.x.payment_processing.retries = 3
config.x.super_debugger = true
```

```
Rails.configuration.x.payment_processing.schedule # => :daily
```

```
Rails.configuration.x.payment_processing.retries # => 3
Rails.configuration.x.super_debugger           # => true
Rails.configuration.x.super_debugger.not_set   # => nil
```

<https://riptutorial.com/zh-TW/ruby-on-rails/topic/2558/>

# 67:

## Examples

### Rails

```
rails config/environments/ rails3 development production test
```

```
Rails config/application.rb
```

```
Rails.application.configure do config.config.
```

```
rails config/database.yml rails new rails sqlite database.yml
```

```
# SQLite version 3.x
#   gem install sqlite3
#
#   Ensure the SQLite 3 gem is defined in your Gemfile
#   gem 'sqlite3'
#
default: &default
  adapter: sqlite3
  pool: 5
  timeout: 5000

development:
  <<: *default
  database: db/development.sqlite3

# 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: db/test.sqlite3

production:
  <<: *default
  database: db/production.sqlite3
```

```
rails new hello_world --database=mysql
```

### Rails

```
Rails::Railtie
```

- **config.after\_initialize** rails
- **config.asset\_host** config.action\_controller.asset\_host
- **config.autoload\_once\_paths** Rails
- **config.autoload\_paths** Rails app
- **config.cache\_classes** false true

- **config.action\_view.cache\_template\_loading** ◦ `config.cache_classes`
- **config.beginning\_of\_week** ◦ `:monday`
- **config.cache\_store** ◦ `:file_store :memory_store mem_cache_store null_store` ◦
- **config.colorize\_logging**
- **config.eager\_load** Eager-load all registered
- **config.encoding** ◦ `UTF-8`
- **config.log\_level** Rails Logger ◦ `:debug:debug` ◦
- **config.middleware**
- **config.time\_zone** ◦
  
- **config.assets.enabled** ◦ `true`
- **config.assets.raise\_runtime\_errors** ◦ `development mode`
- **config.assets.compress** ◦ `true`
- **config.assets.js\_compressor** JS ◦ `:closure :uglifyer:yui`
- **config.assets.paths** ◦
- **config.assets.precompile** `rake assets:precompilerake assets:precompile`
- **config.assets.digest** MD-5 ◦ `true`
- **config.assets.compile** `Sprockets`

**Rails** `rails generaterails generate` ◦ `config.generators`

```
config.generators do |g|
  g.orm :active_record
  g.test_framework :test_unit
end
```

force_plural		
integration_tool		test_unit
javascript_engine	JS	:js
resource_route		
stylesheet_engine		:cs
scaffold_stylesheet	CSS	
test_framework		Minitest
template_engine		:erb

<https://riptutorial.com/zh-TW/ruby-on-rails/topic/2841/>

# 68: PDF

## Examples

```
class FundsController < ApplicationController

  def index
    @funds = Fund.all_funds(current_user)
  end

  def show
    @fund = Fund.find(params[:id])
    respond_to do |format|
      format.html
      format.pdf do
        pdf = FundsPdf.new(@fund, view_context)
        send_data pdf.render, filename:
          "fund_#{@fund.created_at.strftime("%d/%m/%Y")}.pdf",
          type: "application/pdf"
      end
    end
  end
end
```

FundsPdf.new(@fund, view\_context) ◦ @fundview\_contextFundsPdfFundsPdf◦ FundsPdf

```
class FundPdf < Prawn::Document

  def initialize(fund, view)
    super()
    @fund = fund
    @view = view
    upper_half
    lower_half
  end

  def upper_half
    logopath = "#{Rails.root}/app/assets/images/logo.png"
    image logopath, :width => 197, :height => 91
    move_down 10
    draw_text "Receipt", :at => [220, 575], size: 22
    move_down 80
    text "Hello #{@invoice.customer.profile.first_name.capitalize},"
  end

  def thanks_message
    move_down 15
    text "Thank you for your order.Print this receipt as
    confirmation of your order.",
    :indent_paragraphs => 40, :size => 13
  end
end
```

Prawn gemPDF◦

GemPDF MIMEmime\_types.railsPDF mime。

PrawnPdf

---

```
pdf = Prawn::Document.new
pdf.text "Hello World"
pdf.render_file "assignment.pdf"
```

---

## Implicit Block

```
Prawn::Document.generate("implicit.pdf") do
  text "Hello World"
end
```

---

```
Prawn::Document.generate("explicit.pdf") do |pdf|
  pdf.text "Hello World"
end
```

PDF <https://riptutorial.com/zh-TW/ruby-on-rails/topic/4163/pdf>



# 69:

## Decorator

stdlibRubyDraper

## Examples

### SimpleDelegator

#### Rails

```
<h1><%= "#{ @user.first_name } #{ @user.last_name }" %></h1>
<h3>joined: <%= @user.created_at.in_time_zone(current_user.timezone).strftime("%A, %d %b %Y
%l:%M %p") %></h3>
```

◦

stdlibSimpleDelegator ◦

SimpleDelegator ◦ ◦

SimpleDelegator \_\_setobj\_\_ \_\_getobj\_\_ ◦

```
class UserDecorator < SimpleDelegator
  attr_reader :view
  def initialize(user, view)
    __setobj__ @user
    @view = view
  end

  # new methods can call methods on the parent implicitly
  def full_name
    "#{ first_name } #{ last_name }"
  end

  # however, if you're overriding an existing method you need
  # to use __getobj__
  def created_at
    Time.use_zone(view.current_user.timezone) do
      __getobj__.created_at.strftime("%A, %d %b %Y %l:%M %p")
    end
  end
end
```

◦

```
<% user = UserDecorator.new(@user, self) %>
<h1><%= user.full_name %></h1>
<h3>joined: <%= user.created_at %></h3>
```

◦

◦

## Draper

### Draper◦

```
# app/decorators/user_decorator.rb
class UserDecorator < Draper::Decorator
  def full_name
    "#{object.first_name} #{object.last_name}"
  end

  def created_at
    Time.use_zone(h.current_user.timezone) do
      object.created_at.strftime("%A, %d %b %Y %l:%M %p")
    end
  end
end
```

@userActiveRecord#decorate@user◦

```
<% user = @user.decorate %><!-- OR -->
<% user = UserDecorator.decorate(@user) %>
<h1><%= user.full_name %></h1>
<h3>joined: <%= user.created_at %></h3>
```

<https://riptutorial.com/zh-TW/ruby-on-rails/topic/5694/>

# 70:

## Examples

### Rails

◦ ◦ [ruby 1.9.21.9.3byebug](#) ruby> = 2.x◦

.rb

1. `debuggerbyebugdevelopmentGemfile`
2. `bundle install`
3. `debuggerbyebug`
- 4.
5. `rails`
6. `rails console`
7. `nextenter`
8. `center`

.html.erb<% debugger %>

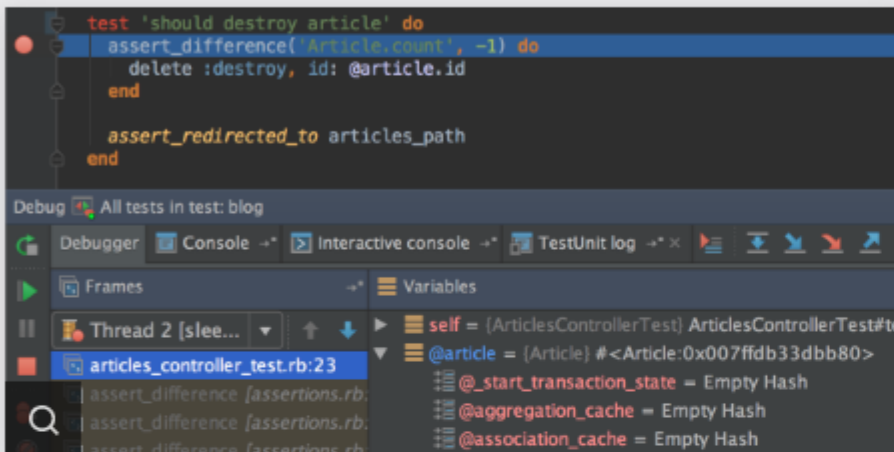
### IDE

[IDEGUIRubyRails](#)◦

Ruby IDERubyMine

# Powerful Debugger

RubyMine brings a clever debugger with a graphical UI for Ruby, JS, and CoffeeScript. Set breakpoints and run your code step by step with all the information at your fingertips.



## Smart, flexible breakpoints

- Place a breakpoint on a line of code and define the hit conditions—a set of Boolean expressions that are evaluated to determine whether to stop the code execution or not.
- If you have multiple breakpoints in your code, you can set dependencies between them to define the order in which they can be hit.
- Setting a breakpoint is just a matter of a single mouse click on the gutter or invoking a shortcut.
- Breakpoints are also available in Rails views, so you can use them for debugging Rails code as well.

## Built-in expression evaluator

Evaluate any expression while your debugging session is paused. Type an expression or a code fragment, with coding assistance available in the dialog. All expressions are evaluated against the current context.

## Frames and call stack

When a breakpoint is hit or code execution is suspended, you can use the Frames panel to examine the current threads, their state, call stack, methods, and variables along with their values.

## Convenient user interface

- Look under the hood of any object with the Variables and Watches views.
- The UI is fully customizable: you can select toolbar commands, project code while stepping through it, and so on.
- The debugger UI is also tightly integrated with the IDE, so you can navigate between the debugger and the code editor, etc.
- You also get the complete set of debugging views.

## Debugging JavaScript

- RubyMine provides an advanced JavaScript debugger, which works with Google Chrome and Firefox.
- You can easily debug ECMAScript code running on RubyMine debugger's server.
- A full-featured debugger for Node.js, so you can debug apps running locally or remotely.

## Dedicated Watches

Track any number of expressions and variables in the current stack frame context. The Watches view is available through your debugging session.

## Remote debugging

As you connect to a remote host, you can use the mapping between the local source code and the remote debug processes can be launched.

## Ruby on Rails +

```
print IRB prybybug ◦ ◦
```

---

# Ruby / Rails

**1.** `Exception` ◦ `.inspect`

Ruby Rails `foo` `.inspect` raise

```
raise foo.inspect
```

```
raise Exception .inspect /foo ◦
```

```
nil ◦
```

**2.** `IRB` `byebug` `pry`

`IRB` `pry` `byebug` ◦

`byebug` `gem` `Rails`

1. `Gemfile` `gem 'byebug'`
2. `bundle install`
3. `byebug` ◦

`byebug` `ruby` `IRB` ◦

`Byebug` `IRB` ◦ ◦

---

**@\$ ing** `RTFM`

◦

1. `nil`
2. `;/`
3. ◦

`Rails` `app` / ... ◦ 99 ◦

---

.....

## Ruby

```
@foo = Foo.new  
  
...  
  
@foo.bar
```

**undefined method "bar" for Nil:nilClass**

bar ◦ ◦

for Nil:nilClass

**for Nil:nilClass@fooNil** @fooFooNil◦ **rubyNilbar** ◦ FooNil◦

undefined method "bar" for Nil:nilClass bar undefined◦ Foo**barnil**◦ ◦

◦ ◦ **55**◦

**tl; dr**◦ ◦

## pryruby-on-rails

[pryruby](#)◦ [gemruby-on-rails](#)◦

pry

- Gemfile gem 'pry'Gemfile

```
group :development, :test do  
  gem 'pry'  
end
```

- bundle install◦ ◦

prybinding.pry ◦ binding.pryrubyapp / controllersapp / modelsapp / views

i

// users\_controller.rb

```
class UsersController < ApplicationController  
  def show  
    use_id = params[:id]  
    // breakpoint to inspect if the action is receiving param as expected  
    binding.pry  
    @user = User.find(user_id)  
    respond_to do |format|  
      format.html  
    end  
  end  
end
```

```
end
```

UsersControllersshowrailspryo paramsUserActiveRecord

ii

*/// show.html.haml*

```
%table
  %tbody
    %tr
      %td ID
      %td= @user.id
    %tr
      %td email
      %td= @user.email
    %tr
      %td logged in ?
      %td
        - binding.pry
        - if @user.logged_in?
          %p= "Logged in"
        - else
          %p= "Logged out"
```

users/showrailspryo @user.logged\_in?@user.logged\_in?o

ii

```
app/models/user.rb

class User < ActiveRecord::Base
  def full_name
    binding.pry
    "#{self.first_name} #{self.last_name}"
  end
end
```

Userfull\_name o

pryrails o o

<https://riptutorial.com/zh-TW/ruby-on-rails/topic/3877/>

# 71:

JavaScriptCSS。 CoffeeScriptSassERB。 。 jquery-railsjquery.jsRailsAJAX。

## Examples

sprockets-railsrake

- assets:clean[keep]
- assets:clobber
- assets:environment
- assets:precompile config.assets.precompile

assets initializer config/initializers/assets.rb ◦

```
# Precompile additional assets.
# application.coffee, application.scss, and all non-JS/CSS in app/assets folder are already
added.
# Rails.application.config.assets.precompile += %w( search.js )
```

application.coffeeapplication.scss 'Manifest Files'。 JavaScriptCSS。

- require <path> require Ruby require ◦ ◦
- require\_directory <path> ◦ path/\*◦
- require\_tree <path> ◦ glob path/\*\*/\*◦
- require\_self require ◦ CSS◦
- stub <path>
- depend\_on <path> ◦ ◦ ◦

application.scss

```
/*
 *= require bootstrap
 *= require_directory .
 *= require_self
 */
```

application.coffee◦ jqueryTurbolinks

```
#= require jquery2
#= require jquery_ujs
#= require turbolinks
#= require_tree .
```

CoffeeScriptJavaScript

```
//= require jquery2
//= require jquery_ujs
```



```
//= require turbolinks
//= require_tree .
```

1. ◦

2. ◦

```
bundle exec rake assets:precompile
```

<https://riptutorial.com/zh-TW/ruby-on-rails/topic/3386/>

# 72:

RailsURL。 URL。

“”URL。 RailsURL。 Railsconfig/routes.rb。

## Examples

config/routes.rb。 resourcesresource。

```
resources :usersUsersController
```

```
get      '/users',          to: 'users#index'
post     '/users',          to: 'users#create'
get      '/users/new',     to: 'users#new'
get      '/users/:id/edit', to: 'users#edit'
get      '/users/:id',     to: 'users#show'
patch/put '/users/:id',    to: 'users#update'
delete   '/users/:id',    to: 'users#destroy'
```

to#。 app/controllers/users\_controller.rb

```
class UsersController < ApplicationController
  def index
  end

  def create
  end

  # continue with all the other methods...
end
```

onlyexcept

```
resources :users, only: [:show]
resources :users, except: [:show, :index]
```

5

```
$ rake routes
```

5

```
$ rake routes
# OR
$ rails routes
```

```
users      GET    /users(..format)      users#index
           POST   /users(..format)      users#create
new_user   GET    /users/new(..format)  users#new
```

```

edit_user GET    /users/:id/edit(.:format) users#edit
user      GET    /users/:id(.:format)    users#show
          PATCH /users/:id(.:format)    users#update
          PUT   /users/:id(.:format)    users#update
          DELETE /users/:id(.:format)    users#destroy

```

5

```

$ rake routes -c static_pages
static_pages_home GET    /static_pages/home(.:format) static_pages#home
static_pages_help GET    /static_pages/help(.:format) static_pages#help

```

5

```

$ rake routes -c static_pages
static_pages_home GET    /static_pages/home(.:format) static_pages#home
static_pages_help GET    /static_pages/help(.:format) static_pages#help

# OR

$ rails routes -c static_pages
static_pages_home GET    /static_pages/home(.:format) static_pages#home
static_pages_help GET    /static_pages/help(.:format) static_pages#help

```

-g° URLHTTP

5

```

$ rake routes -g new_user # Matches helper method
$ rake routes -g POST    # Matches HTTP Verb POST

```

5

```

$ rake routes -g new_user # Matches helper method
$ rake routes -g POST    # Matches HTTP Verb POST
# OR
$ rails routes -g new_user # Matches helper method
$ rails routes -g POST    # Matches HTTP Verb POST

```

rails<hostname>/rails/info/routes°

	HTTP	
/		[]
users_path		/users(.:format
	POST	/users(.:format
new_user_path		/users/new(.:format
edit_user_path		/users/:id/edit(.:format

	HTTP		
user_path		/users/:id(.:format	
		/users/:id(.:format	
		/users/:id(.:format	
		/users/:id(.:format	

resourceroutes.rbresources ◦ resource index

```
resource :orders, only: [:index, :create, :show]
```

◦

- 
- 
- 

## IP

```
constraints(ip: /127\.0\.0\.1$/) do
  get 'route', to: "controller#action"
end
```

## ActionDispatch :: Routing :: Mapper :: Scoping ◦

```
# lib/api_version_constraint.rb
class ApiVersionConstraint
  def initialize(version:, default:)
    @version = version
    @default = default
  end

  def version_header
    "application/vnd.my-app.v#{@version}"
  end

  def matches?(request)
    @default || request.headers["Accept"].include?(version_header)
  end
end

# config/routes.rb
require "api_version_constraint"

Rails.application.routes.draw do
  namespace :v1, constraints: ApiVersionConstraint.new(version: 1, default: true) do
    resources :users # Will route to app/controllers/v1/users_controller.rb
  end

  namespace :v2, constraints: ApiVersionConstraint.new(version: 2) do
    resources :users # Will route to app/controllers/v2/users_controller.rb
  end
end
```

```
end
```

◦ `““““routes.rb javascriptURL◦ commit\_param\_routing gemrails submit_tag`

## Rails submit\_tag

```
# app/views/orders/mass_order.html.erb
<%= form_for(@orders, url: mass_create_order_path do |f| %>
  <!-- Big form here -->
  <%= submit_tag "Preview" %>
  <%= submit_tag "Submit" %>
  # => <input name="commit" type="submit" value="Preview" />
  # => <input name="commit" type="submit" value="Submit" />
  ...
<% end %>

# config/routes.rb
resources :orders do
  # Both routes below describe the same POST URL, but route to different actions
  post 'mass_order', on: :collection, as: 'mass_order',
    constraints: CommitParamRouting.new('Submit'), action: 'mass_create' # when the user
  presses "submit"
  post 'mass_order', on: :collection,
    constraints: CommitParamRouting.new('Preview'), action: 'mass_create_preview' # when the
  user presses "preview"
  # Note the `as:` is defined only once, since the path helper is mass_create_order_path for
  the form url
  # CommitParamRouting is just a class like ApiVersionConstraint
end
```

## Rails◦

```
scope 'admin' do
  get 'dashboard', to: 'administration#dashboard'
  resources 'employees'
end
```

```
get      '/admin/dashboard',      to: 'administration#dashboard'
post     '/admin/employees',  to: 'employees#create'
get      '/admin/employees/new', to: 'employees#new'
get      '/admin/employees/:id/edit', to: 'employees#edit'
get      '/admin/employees/:id', to: 'employees#show'
patch/put '/admin/employees/:id', to: 'employees#update'
delete   '/admin/employees/:id', to: 'employees#destroy'
```

◦

```
scope module: :admin do
  get 'dashboard', to: 'administration#dashboard'
end
```

module

```
get      '/dashboard',      to: 'admin/administration#dashboard'
```

as

```
scope 'admin', as: :administration do
  get 'dashboard'
end

# => administration_dashboard_path
```

## Rails namespace

```
namespace :admin do
  end

scope 'admin', module: :admin, as: :admin
```

```
scope controller: :management do
  get 'dashboard'
  get 'performance'
end
```

```
get '/dashboard', to: 'management#dashboard'
get '/performance', to: 'management#performance'
```

:shallow URL ◦ ◦ ◦ URL ◦ :index :create:new actions ◦ URL ◦

- **shallow\_path**

```
scope shallow_path: "sekret" do
  resources :articles do
    resources :comments, shallow: true
  end
end
```

- **shallow\_prefix**

```
scope shallow_prefix: "sekret" do
  resources :articles do
    resources :comments, shallow: true
  end
end
```

shallow

```
resources :auctions, shallow: true do
  resources :bids do
    resources :comments
  end
end
```

```
resources :auctions do
  shallow do
    resources :bids do
      resources :comments
    end
  end
end
```

end  
end  
end

		URI
bid_comments		/bids/:bid_id/comments(.:format
	POST	/bids/:bid_id/comments(.:format
new_bid_comment		/bids/:bid_id/comments/new(.:format
edit_comment		/comments/:id/edit(.:format
		/comments/:id(.:format
		/comments/:id(.:format
		/comments/:id(.:format
auction_bids		/auctions/:auction_id/bids(.:format
	POST	/auctions/:auction_id/bids(.:format
new_auction_bid		/auctions/:auction_id/bids/new(.:format
edit_bid		/bids/:id/edit(.:format
		/bids/:id(.:format
		/bids/:id(.:format
		/bids/:id(.:format
		/bids/:id(.:format
		/auctions(.:format
	POST	/auctions(.:format
new_auction		/auctions/new(.:format
edit_auction		/auctions/:id/edit(.:format
		/auctions/:id(.:format
		/auctions/:id(.:format
		/auctions/:id(.:format

	URI
	/auctions/:id(.:format

## URL。

◦ routes.rb concern ◦

```
concern :commentable do
  resources :comments
end
```

:concerns◦

```
resource :page, concerns: :commentable
```

```
resource :page do
  resource :comments
end
```

```
/pages/#{page_id}/comments
/pages/#{page_id}/comments/#{comment_id}
```

◦

```
resource :post, concerns: %i(commentable)
resource :blog do
  concerns :commentable
end
```

## Rails

4

```
get '/stories', to: redirect('/posts')
```

4

```
match "/abc" => redirect("http://example.com/abc")
```

4

```
match '*path' => redirect('/'), via: :get
# or
get '*path' => redirect('/')
```

4

```
match '*path' => redirect('/')
```



```
resources :posts do
  member do
    get 'preview'
  end
end
```

```
get '/posts/:id/preview', to: 'posts#preview'
# preview_post_path
```

```
resources :posts do
  collection do
    get 'search'
  end
end
```

```
get '/posts/search', to: 'posts#search'
# search_posts_path
```

```
resources :posts do
  get 'preview', on: :member
  get 'search', on: :collection
end
```

## URL

idurl。 jsonxml。

。

## URL

```
resources :users, constraints: { id: /.*/ }
```

root。

```
# config/routes.rb
Rails.application.routes.draw do
  root "application#index"
  # equivalent to:
  # get "/", "application#index"
end

# app/controllers/application_controller.rb
class ApplicationController < ActionController::Base
  def index
    render "homepage"
  end
end
```

rake routes **Rails 5** rails routes

```
root GET / application#index
```

root◦

## RESTful

```
resources :photos do
  member do
    get 'preview'
  end
  collection do
    get 'dashboard'
  end
end
```

## 7RESTful

```
get '/photos/:id/preview', to: 'photos#preview'
get '/photos/dashboards', to: 'photos#dashboard'
```

```
resources :photos do
  get 'preview', on: :member
  get 'dashboard', on: :collection
end
```

/new

```
resources :photos do
  get 'preview', on: :new
end
```

```
get '/photos/new/preview', to: 'photos#preview'
```

## RESTful

### URL◦

```
scope '(/:locale)', locale: /#{I18n.available_locales.join('|')}/ do
  root 'example#root'
  # other routes
end
```

rootI18n.available\_locales◦

### mountrails

```
mount SomeRackApp, at: "some_route"
```

some\_rack\_app\_pathsome\_rack\_app\_url◦

```
mount SomeRackApp, at: "some_route", as: :myapp
```

myapp\_pathmyapp\_url◦

## URLURL◦

```
# config/routes.rb
TestApp::Application.routes.draw do
  get 'courses/:course_name' => redirect('/courses/{course_name}/lessons'), :as => "course"
end
```

◦ #redirect◦ ◦ %{here}◦ ◦

as◦ #\_path◦ \$ rake routes ◦

## Rubyrequire\_relative

config/routes.rb

```
YourAppName::Application.routes.draw do
  require_relative 'routes/admin_routes'
  require_relative 'routes/sidekiq_routes'
  require_relative 'routes/api_routes'
  require_relative 'routes/your_app_routes'
end
```

config/routes/api\_routes.rb

```
YourAppName::Application.routes.draw do
  namespace :api do
    # ...
  end
end
```

routes.rb◦

```
resources :admins do
  resources :employees
end
```

admin_employees	GET	/admins/:admin_id/employees(..format)	employees#index
	POST	/admins/:admin_id/employees(..format)	
employees#create			
new_admin_employee	GET	/admins/:admin_id/employees/new(..format)	employees#new
edit_admin_employee	GET	/admins/:admin_id/employees/:id/edit(..format)	employees#edit
admin_employee	GET	/admins/:admin_id/employees/:id(..format)	employees#show
	PATCH	/admins/:admin_id/employees/:id(..format)	
employees#update			
	PUT	/admins/:admin_id/employees/:id(..format)	
employees#update			
	DELETE	/admins/:admin_id/employees/:id(..format)	
employees#destroy			
admins	GET	/admins(..format)	admins#index

	POST	/admins(.:format)	admins#create
new_admin	GET	/admins/new(.:format)	admins#new
edit_admin	GET	/admins/:id/edit(.:format)	admins#edit
admin	GET	/admins/:id(.:format)	admins#show
	PATCH	/admins/:id(.:format)	admins#update
	PUT	/admins/:id(.:format)	admins#update
	DELETE	/admins/:id(.:format)	admins#destroy

<https://riptutorial.com/zh-TW/ruby-on-rails/topic/307/>

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# 73:

Ruby on Rails◦

StripeBraintree◦

◦

## Examples

### Stripe

Stripe gemGemfile

```
gem 'stripe'
```

initializers/stripe.rb◦ ◦

```
require 'require_all'

Rails.configuration.stripe = {
  :publishable_key => ENV['STRIPE_PUBLISHABLE_KEY'],
  :secret_key      => ENV['STRIPE_SECRET_KEY']
}

Stripe.api_key = Rails.configuration.stripe[:secret_key]
```

---

## Stripe

```
Stripe::Customer.create({email: email, source: payment_token})
```

Stripe◦

payment\_token◦ [Stripe.js](#)

---

## Stripe

```
Stripe::Plan.retrieve(stripe_plan_id)
```

IDStripe◦

---

Stripe◦

```
Stripe::Subscription.create(customer: customer.id, plan: plan.id)
```

- **Stripe** [Stripe](#) ◦

---

- 

```
Stripe::Charge.create(amount: amount, customer: customer, currency: currency)
```

- 

- 200020◦

- ◦ ◦

- ◦

<https://riptutorial.com/zh-TW/ruby-on-rails/topic/10929/>

# 74:

## Examples

◦ Russian doll caching ◦

Russian doll caching◦

updated\_at◦ ◦

```
<% cache product do %>
  <%= render product.games %>
<% end %>
```

```
<% cache game do %>
  <%= render game %>
<% end %>
```

updated\_at◦

updated\_at◦

```
class Product < ApplicationRecord
  has_many :games
end

class Game < ApplicationRecord
  belongs_to :product, touch: true
end
```

## SQL

Rails◦ Rails◦

```
class ProductsController < ApplicationController

  def index
    # Run a find query
    @products = Product.all

    ...

    # Run the same query again
    @products = Product.all
  end

end
```

◦ ◦

◦ ◦

## ActiveSupport::Rails.cache::Ruby

cache.read

```
Rails.cache.read('city')  
# => nil
```

cache.write

```
Rails.cache.write('city', 'Duckburgh')  
Rails.cache.read('city')  
# => 'Duckburgh'
```

cache.fetch

```
Rails.cache.fetch('user') do  
  User.where(:is_awesome => true)  
end
```

◦

```
Rails.cache.fetch('user', :expires_in => 30.minutes) do  
  User.where(:is_awesome => true)  
end
```

## ActionPack page\_caching gem. HTML. ◦ ◦ caches\_page

```
class UsersController < ActionController::Base  
  caches_page :index  
end
```

expire\_page HTML

```
class UsersController < ActionController::Base  
  caches_page :index  
  
  def index  
    @users = User.all  
  end  
  
  def create  
    expire_page :action => :index  
  end  
end
```

expire\_page url\_for friends

## HTTP



Rails> = 3HTTP◦ Cache-ControlETagETagCDN◦

expires\_in

```
def show
  @user = User.find params[:id]
  expires_in 30.minutes, :public => true
end
```

expires\_now

```
def show
  @users = User.find params[:id]
  expires_now if params[:id] == 1
end
```

◦ Rails◦ Railsactionpack-action\_caching gem ◦

```
class SecretIngredientsController < ApplicationController
  before_action :authenticate_user!, only: :index, :show
  caches_action :index

  def index
    @secret_ingredients = Recipe.find(params[:recipe_id]).secret_ingredients
  end
end
```

:expires\_in :cache\_path :if / :unless◦

```
class RecipesController < ApplicationController
  before_action :authenticate_user!, except: :show
  caches_page :show
  caches_action :archive, expires_in: 1.day
  caches_action :index, unless: { request.format.json? }
end
```

layout: false◦

<https://riptutorial.com/zh-TW/ruby-on-rails/topic/2833/>

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