

 免费电子书

学习

Ruby on Rails

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#ruby-on-
rails

.....	1
1: Ruby on Rails	2
.....	2
.....	2
Examples.....	2
Ruby on Rails.....	2
RailsRSpec.....	4
.....	5
.....	5
Rails.....	6
JSONRails API.....	6
Rails.....	7
2: ActionCable	10
.....	10
Examples.....	10
[].....	10
[]Coffeescript.....	10
// Javascript// notifications.coffee	10
app / assets / javascripts / application.js	10
app / assets / javascripts / cable.js	11
.....	11
3: ActionController	12
.....	12
Examples.....	12
JSONHTML.....	12
.....	12
.....	13
.....	13
.....	13
.....	14
404.....	15

REST.....	15
.....	16
.....	16
.....	18
redirect_toActiveRecord :: RecordNotFound.....	19
4: ActiveJob.....	21
.....	21
Examples.....	21
.....	21
.....	21
5: ActiveRecord.....	22
.....	22
Examples.....	22
.....	22
ActiveRecord.....	22
.....	22
.....	22
.....	22
.....	23
6: ActiveRecord.....	24
.....	24
Examples.....	24
Active Record Transactions.....	24
7: ActiveRecord.....	25
Examples.....	25
.....	25
HAS_ONE.....	25
.....	25
.....	26
has_many.....	26
has_one.....	26
has_and_belongs_to_many.....	27
.....	

8: ActiveRecord	28
.....	28
Examples.....	28
.....	28
.....	28
.....	29
where.not.....	29
.....	30
ActiveRecord Bang.....	30
.find_by.....	31
.....	31
ActiveRecord.....	31
.....	32
.group.count.....	32
.distinct.uniq.....	33
.....	33
.....	33
.....	34
9: ActiveRecord	35
Examples.....	35
.....	35
.....	35
.....	36
/.....	36
.....	36
.....	36
.....	37
.....	37
.....	38
.....	38
.....	38

10: ActiveRecord	39
.....	39
.....	39
Examples.....	39
.....	39
.....	40
.....	40
.....	40
.....	40
.....	41
.....	41
.....	41
.....	41
.....	42
.....	42
.....	42
.....	42
3.....	43
.....	43
.....	43
.....	43
.....	43
.....	44
.....	44
.....	44
.....	45
.....	45
hstore.....	45
.....	45
.....	46
NOT NULL.....	46
11: ActiveRecord	48
Examples.....	48
.....	48

.....	48
12: ActiveRecord	49
Examples.....	49
.....	49
.....	49
.....	49
.....	50
.....	50
.....	50
.....	51
ActiveModel::Validatorvalidates_with.....	51
ActiveModel::EachValidatorvalidate.....	51
.....	51
.....	52
.....	52
.....	52
.....	52
on.....	53
13: CanCan	54
.....	54
.....	54
Examples.....	54
CanCan.....	54
.....	55
.....	55
.....	56
14: Elasticsearch	57
Examples.....	57
.....	57
.....	57
.....	57
Searchkick.....	58
15: I18n -	59
.....	

- Examples..... 59
 - l18n..... 59
 - 59
 - 60
 - 60
- URL..... 60**
 - 61
 - 62
- HTTP..... 62
 - 62
 - 1..... 62
 - 2.CloudFlare..... 62
 - ActiveRecord..... 63
 - l18nHTML..... 64
- 16: Mongoid..... 66**
 - Examples..... 66
 - 66
 - 66
 - 66
 - 67
 - 67
 - 68
- 17: Rails 5..... 69**
 - Examples..... 69
 - Ruby on Rails 5 API..... 69
 - RVMRuby on Rails 5..... 70
- 18: Rails 5 API..... 72**
 - Examples..... 72
 - Railsauthenticate_with_http_token..... 72
- 19: Rails API..... 73**

Examples.....	73
API.....	73
20: Rails Cookbook - /	74
Examples.....	74
rails.....	74
Rails -	74
- `where`.....	75
21: Rails -Engines	76
.....	76
.....	76
.....	76
.....	76
Examples.....	76
.....	76
22: Rails	77
.....	77
.....	77
Examples.....	77
Devise.....	77
.....	77
.....	77
Omniauth.....	78
has_secure_password.....	78
.....	78
has_secure_password.....	78
has_secure_token.....	78
23: Rails -	80
.....	80
.....	80
Examples.....	80
.....	80
Todo	81

- 24: Rails** **83**
 - Examples 83
 - 83
 - 83
 - 83
 - default_scope 84
 - default_scopeorder 84
 - default_scope** **84**
 - unscoped **85**
 - unscoped **85**
 - default_scope **85**
 - YAGNI 86
 - **86**
 - 86
 - 86
 - 86
 - 86
 - **86**
 - 86
 - YAGNI - 86
 - 86
 - 86
- 25: Rails** **89**
 - 89
 - 89
 - 89
 - Examples 89
 - Rails 89
 - Rails 90
 - Rails 90
 - Rails 91

26: Rails	93
Examples	93
Rails.logger	93
27: RSpecRuby on Rails	94
.....	94
Examples	94
RSpec	94
28: Ruby on Rails	95
Examples	95
Ruby on Rails	95
29: Ruby on Rails	97
.....	97
Examples	97
.....	97
30: Turbolinks	98
.....	98
.....	98
.....	98
Examples	98
turbolink	98
turbolink	98
.....	98
.....	99
.....	99
.....	99
.....	99
31:	101
.....	101
Examples	101
.....	101
32: CSV	102

.....	102
Examples.....	102
CSV.....	102
33: DeviseApi.....	103
.....	103
Examples.....	103
.....	103
.....	103
34: GoogleMapsRails.....	105
Examples.....	105
google maps javascript.....	105
.....	105
Google.....	106
javascript.....	107
.....	108
.....	109
.....	109
json.....	110
.....	110
.....	110
.....	110
35: HyperloopReact.jsRails.....	112
.....	112
.....	112
Examples.....	112
Railsruby.....	112
.....	112
HTML.....	113
.....	113
.....	113
.....	113
36: RailsAngular.....	115

Examples.....	115
Angular with Rails 101.....	115
1 Rails.....	115
2 Turbolinks.....	115
3 AngularJS.....	115
4 Angular.....	116
5 Angular.....	116
37: react-rails gem Rails.....	118
Examples.....	118
rails_react gem Rails.....	118
react_rails.....	118
.....	119
38:	120
.....	120
Examples.....	120
.....	120
39: ActiveRecord.....	126
.....	126
Examples.....	126
ActiveRecord :: Validations.....	126
40: Rails.....	127
Examples.....	127
Rails 4.2 Rails 5.0.....	127
41:	129
.....	129
Examples.....	129
.....	129
.....	129
RailsSTI.....	130
42: ID.....	131
.....	131

Examples.....	131
Rails.....	131
Gemfile.....	131
app / models / user.rb.....	131
h11.....	131
h12.....	131
43:.....	133
Examples.....	133
.....	133
.....	133
.....	133
.....	133
Controller.....	134
44: HerokuRails.....	135
Examples.....	135
.....	135
Heroku.....	137
45: Rails.....	139
.....	139
Examples.....	139
Rails.....	139
Rails 1.xRails.....	139
Rails 2.xRails.....	139
Rails 3.xRails.....	139
46: ActiveRecord.....	140
.....	140
Examples.....	140
.....	140
.....	140
.....	140
.....	140
.....	140

47:	141
.....	141
Examples	141
Figaro	141
48: Constantize	142
Examples	142
safe_constantize	142
safe_constantize	142
49:	143
.....	143
Gemfile	143
Examples	143
.....	143
Rails	143
Gemfile	143
Gemfile.lock	143
.....	143
.....	144
Gemfiles	144
Gemsets	145
50: Amazon RDSrails	147
.....	147
Examples	147
MYSQL RDSrails	147
51:	148
Examples	148
.....	148
52:	149
.....	149
.....	149
Examples	149
.....

.....	149
.....	149
.....	149
.....	150
.....	150
.....	150
.....	150
.....	150
.....	150
.....	150
.....	150
.....	151
53:	152
Examples.....	152
Carrierwave.....	152
-	152
54:	154
.....	154
Examples.....	154
RailsUTCActive Record.....	154
RailsActive Record.....	154
55: Rails	155
.....	155
Examples.....	155
.....	155
.....	155
56:	156
Examples.....	156
.....	156
.....	156
.....	156

AssetTagHelper.....	156
.....	156
IMAGE_PATH.....	156
IMAGE_URL.....	156
IMAGE_TAG.....	157
JavaScript.....	157
javascript_include_tag.....	157
javascript_path.....	157
javascript_url.....	157
.....	157
stylesheet_link_tag.....	157
stylesheet_path.....	157
stylesheet_url.....	158
.....	158
.....	158
HTML.....	159
HAML -	159
57: AASM.....	161
Examples.....	161
AASM.....	161
58:	163
Examples.....	163
1.....	163
59: Rails.....	164
Examples.....	164
.....	164
.....	164
60:	165
.....	165
.....	165
.....	165

Examples.....	165
rails_admin gem.....	165
61:	169
.....	169
Examples.....	169
.....	169
.....	169
62: ActionMailer	172
.....	172
.....	172
Examples.....	172
.....	172
user_mailer.rb.....	172
user.rb.....	172
approved.html.erb.....	172
approved.text.erb.....	173
.....	173
.....	173
ActionMailer.....	173
.....	174
ActionMailer.....	179
63: ActiveSupport	180
.....	180
Examples.....	180
.....	180
.....	180
.....	180
.....	180
.....	180
.....	180
.....	180
.....	181
/.....	181

TO_TIME	181
TO_DATE	181
to_datetime	181
.....	181
.....	181
.....	182
.....	182
.....	182
.....	182
truncate_words	182
strip_heredoc	183
.....	183
.....	183
singularize	183
constantize	183
safe_constantize	184
camelize	184
titleize	184
.....	184
dasherize	185
demodulize	185
deconstantize	185
.....	185
tableize	185
.....	186
.....	186
upcase_first	186
foreign_key	186
64:	187

.....	187
Examples.....	187
Dockerdocker-compose.....	187
65:	189
Examples.....	189
.....	189
.....	189
.....	189
66:	190
Examples.....	190
.....	190
67:	192
Examples.....	192
Rails.....	192
.....	192
Rails.....	192
.....	193
.....	193
68: PDF	194
Examples.....	194
.....	194
.....	194
.....	195
Implicit Block	195
.....	195
69:	196
.....	196
Examples.....	196
SimpleDelegator.....	196
Draper.....	197
70:	198

Examples.....	198
Rails.....	198
IDE.....	198
Ruby on Rails +.....	199
Ruby / Rails.....	200
1.Exception .inspect.....	200
2.IRBbyebugpry.....	200
.....	200
Ruby.....	200
pryruby-on-rails.....	201
71:	203
.....	203
Examples.....	203
.....	203
.....	203
.....	204
72:	205
.....	205
.....	205
Examples.....	205
.....	205
.....	207
.....	208
.....	211
.....	211
.....	212
URL.....	212
.....	212
RESTful.....	213
.....	213
.....	213
.....	214

.....	214
.....	214
73:	216
.....	216
.....	216
Examples.....	216
Stripe.....	216
Stripe	216
Stripe	216
.....	216
.....	217
74:	218
Examples.....	218
.....	218
SQL.....	218
.....	219
.....	219
HTTP.....	219
.....	220
.....	221

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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。 ◦

- rails rails new

```
$ rails new my_app
```

Rails rails _version_ new

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

my_app MyApp Rails Gemfile bundle install Gemfile gem

cd change directory

```
$ cd my_app
```

my_app Rails

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

database.yml


```
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

。 。 。 。 **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

Rails ActiveRecord 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 Ruby Installer。
- ◦ “RubyPATH”。
- RubyWindowsRuby“Ruby”。
- ◦ `ruby -v` Enter Ruby。

2 Ruby Development Kit

Ruby Rails。 Rails Windows。 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`。 DevKit Ruby。 `ruby dk.rb install`。

DevKit Ruby。

3 Rails

Rails。 Rails Ruby。

```
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-CN/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-CN/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
```

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 5.0.05.1**

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
```

assets/helper

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
```

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-CN/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-CN/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-CN/ruby-on-rails/topic/9326/activerecord>

7: 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

```

o o

o

```
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-CN/ruby-on-rails/topic/1820/activerecord>

8: 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-CN/ruby-on-rails/topic/2154/activerecord>

9: 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◦ `app` rails 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-CN/ruby-on-rails/topic/828/activerecord>

10: 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-CN/ruby-on-rails/topic/1087/activerecord>

11: 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-CN/ruby-on-rails/topic/3866/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^{nil}

°

```
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-CN/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-CN/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-CN/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◦

GeocoderGemfile

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

Geocoderlocationsafe_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-CN/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-CN/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/inflections.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-CN/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-CN/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-CN/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_itemso

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

-

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

Rails -

Railso

-

```
##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-CN/ruby-on-rails/topic/7259/rails-cookbook----->

21: Rails -Engines

◦ Rails“Rails :: ApplicationRails :: Engine◦

rails/◦ ◦ DeviceSpree gemsrails◦

- rails plugin new [engine name] --mountable

--mountable	“”
-	

rails

Examples

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

railsgem

Rails -Engines <https://riptutorial.com/zh-CN/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-CN/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
```

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-CN/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

```

- ◦
- 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-CN/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-CN/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-CN/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-CN/ruby-on-rails/topic/5335/rspecruby-on-rails>

28: Ruby on Rails

Examples

Ruby on Rails

has_many^o

```
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-CN/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-CN/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`。

turbolinksgithub。 ◦

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-CN/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-CN/ruby-on-rails/topic/9000/>

32: 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-CN/ruby-on-rails/topic/8658/csv>

33: 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-CN/ruby-on-rails/topic/9787/deviseapi>

34: 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](#) ◦

[ApplicationRecord](#)[to_json](#) ◦

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](#)[label](#)[value](#) ◦

[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-CN/ruby-on-rails/topic/2828/googlemapsrails>

35: 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

# 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-CN/ruby-on-rails/topic/9809/hyperloopreact-jsrails>

36: 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](http://localhost3000/example) .

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

37: 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 gem[Rails https://riptutorial.com/zh-CN/ruby-on-rails/topic/7032/react-rails-gemrails](https://riptutorial.com/zh-CN/ruby-on-rails/topic/7032/react-rails-gemrails)

38:

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
-
-
-
-
- PGError
- 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
-
-
- SyntaxError
- SystemCallError
- SystemExit
- SystemStackError
- TCPSERVER
-

- TCPocket
- TCPserver
- TCPocket
- TOPLEVEL_BINDING
-
-
-
-
- ThreadError
-
-
-
- TrueClass
-
- UDPOcket
- UDPocket
- UNIXServer
- UNIXocket
- UNIXserver
- UNIXocket
- UnboundMethod
-
-
-
- YAML
- ZeroDivisionError
- @base_path
-
- ACCES
-
-
-
- 2
-
-
-
-
-
-
-
-
- display1
-
-
-
-
-
-
-
-
-
-
-
-
-
-

39: ActiveRecord

ActiveModelActiveRecord。 ActiveRecordActiveRecord。

ActiveRecord。

Examples

ActiveModel :: Validations

。

```
class User
  include ActiveModel::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-CN/ruby-on-rails/topic/1773/activemodel) <https://riptutorial.com/zh-CN/ruby-on-rails/topic/1773/activemodel>

40: 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-CN/ruby-on-rails/topic/3496/rails>

41:

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 **users**entity_type = "Admin"

RailsSTI

STIRails_type:_type_disabled:_type_disabledinheritance_column

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

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

42: 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-CN/ruby-on-rails/topic/9664/id>

43:

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 ◦ PascalCaselower_snake_case ◦

Rails“inflection”application_controllerApplicationController ◦

RailsBlogPostblog_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”“FootsController”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-CN/ruby-on-rails/topic/1493/>

44: 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

o Heroku o

Heroku o

```
$ 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-CN/ruby-on-rails/topic/4485/herokurails](https://riptutorial.com/zh-CN/ruby-on-rails/topic/4485/herokurails)

45: 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-CN/ruby-on-rails/topic/8107/rails>

46: 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-CN/ruby-on-rails/topic/7602/activerecord) <https://riptutorial.com/zh-CN/ruby-on-rails/topic/7602/activerecord>

47:

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-CN/ruby-on-rails/topic/9711/>

48: 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-CN/ruby-on-rails/topic/3015/constantize>

49:

Gemfile

Gemfile 2

o

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

Examples

gemruby

o o

Rails

Gemfile

RailsGemfile o bundlergemBundler

Gemfile.lock

Gemfile.lockgem o

```
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 o Gemfile.lock4.0.3 o

o 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](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_{ruby} ◦ GemfileRubyBundler◦

```
ruby '2.3.1'
```

Gemsets

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

RVM_{ruby>} = 0.1.8 @global gemset ◦ ruby@global gemset@global gemset_{rubygemset}◦ rubygem◦

gemsets

ruby-2.3.1

```
rvm use ruby-2.3.1
```

rubygemset

```
rvm gemset create new_gemset
```

new_gemset_{gemset}◦ rubygemset

```
rvm gemset list
```

ruby

```
rvm gemset list_all
```

gemset_{new_gemset}gemset

```
rvm gemset use new_gemset
```

rubygemset_{ruby}

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

rubygemset

```
rvm use 2.1.1@new_gemset --default
```

gemsetgem

```
rvm gemset empty new_gemset
```

gemset_{ruby}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-CN/ruby-on-rails/topic/3130/>

50: 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-CN/ruby-on-rails/topic/10922/amazon-rdsrails>

51:

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-CN/ruby-on-rails/topic/8330/>

52:

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-CN/ruby-on-rails/topic/4509/>

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-CN/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-CN/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-CN/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

`` -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-CN/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-CN/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-CN/ruby-on-rails/topic/7775/>

59: 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-CN/ruby-on-rails/topic/7853/rails>

60:

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

◦ `active_admin gem` ◦ 4. `can` ◦

Examples

`rails_admin gem`。

◦


NAVIGATION



[Blogs](#)

[Users](#)

Site Administration

Dashboard

 Dashboard

Model name	Last created	Records
Blogs	about 7 hours ago	
Users	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-CN/ruby-on-rails/topic/8128/>

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 procs 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-CN/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** x

```
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
```

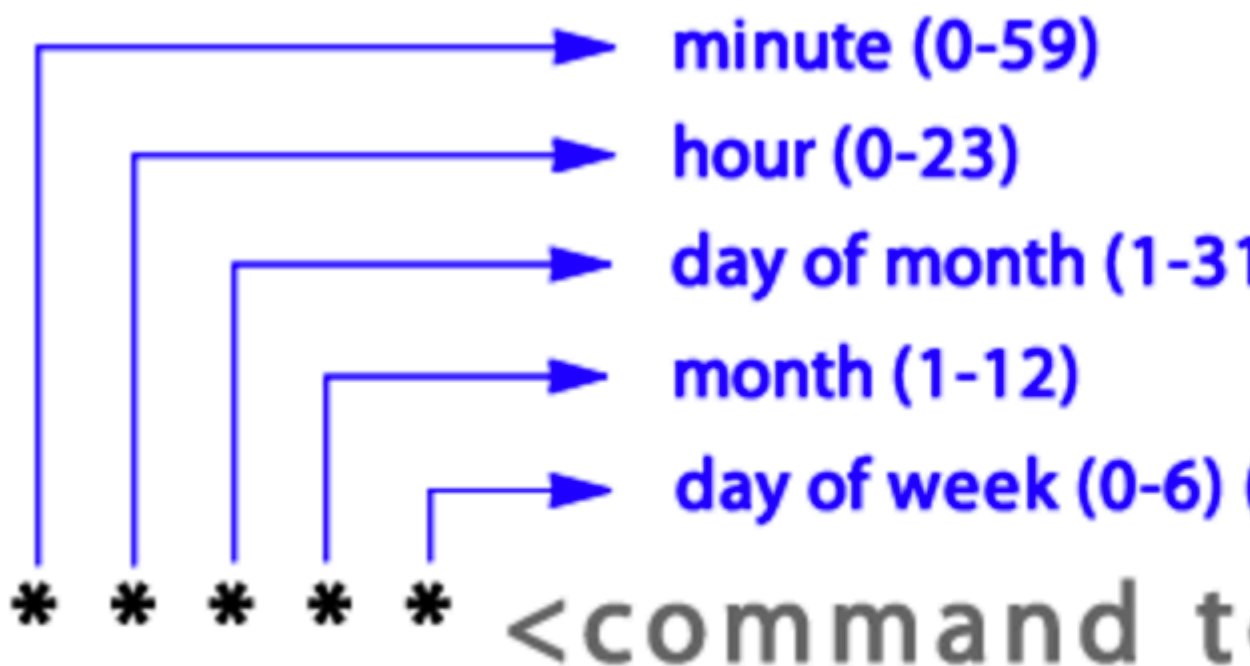
```
gem 'whenever', require: false
```

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-CN/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-CN/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-CN/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-CN/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-CN/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-CN/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-CN/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-CN/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 %>

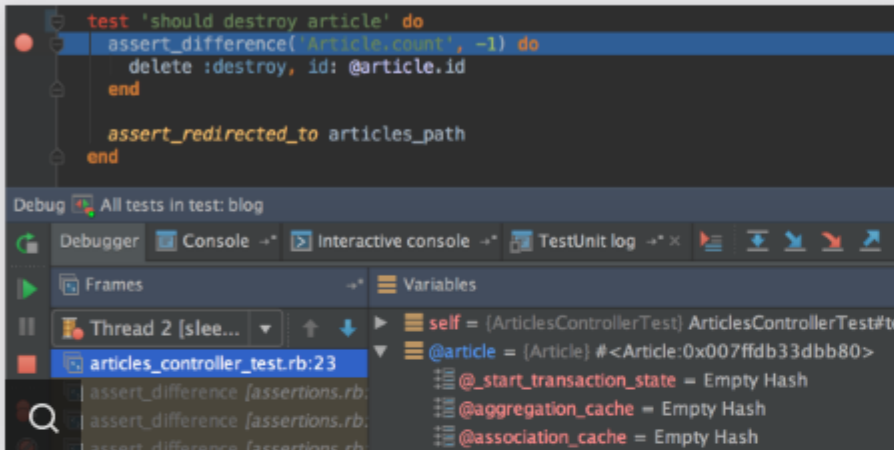
IDE

[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 with ease.
- 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 to debug apps running locally or remotely.

Dedicated Watches

Track any number of expressions and their values 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 prybyebug ◦ ◦
```

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
```

UsersControllersshowrailspry◦ 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/showrailspry◦ @user.logged_in?@user.logged_in?◦

ii

```
app/models/user.rb

class User < ActiveRecord::Base
  def full_name
    binding.pry
    "#{self.first_name} #{self.last_name}"
  end
end
```

Userfull_name◦

pryrails◦◦

<https://riptutorial.com/zh-CN/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> requireRubyrequire ◦ ◦
- require_directory <path> ◦ path/*◦
- require_tree <path> ◦ globpath/**/*◦
- 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-CN/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-CN/ruby-on-rails/topic/307/>

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-CN/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-CN/ruby-on-rails/topic/2833/>

S. No		Contributors
1	Ruby on Rails	Abhishek Jain , Adam Lassek , Ajay Barot , animuson , ArtOfCode , Aswathy , Community , Darpan Chhatravala , Darshan Patel , Deepak Mahakale , fybw id , Geoffroy , hschin , hvenables , Jon Wood , kfrz , Kirti Thorat , Lorenzo Baracchi , Luka Kerr , MauroPorrasP , michaelpri , nifCody , Niyanta , olive_tree , RADan , RareFever , Richard Hamilton , sa77 , saadlulu , sahil , Sathishkumar Jayaraj , Simone Carletti , Stanislav Valášek , theoretisch , tpei , Undo , uzaif , Yana
2	ActionCable	Ich , Sladey , Undo
3	ActionController	Adam Lassek , Atul Khanduri , Deep , Fire-Dragon-DoL , Francesco Lupo Renzi , jackerman09 , RamenChef , Sven Reuter
4	ActiveJob	Brian , owahab
5	ActiveRecord	abhas , Adam Lassek
6	ActiveRecord	ginioux , Hardik Upadhyay , Khanh Pham , Luka Kerr , Manish Agarwal , Niyanta , RareFever , Raynor Kuang , Sapna Jindal
7	ActiveRecord	Adam Lassek , Ajay Barot , Avdept , br3nt , dnsh , Fabio Ros , Francesco Lupo Renzi , ginioux , jeffdill2 , MikeAndr , Muhammad Abdullah , Niyanta , powerup7 , rdnewman , Reboot , Robin , sa77 , Vishal Taj PM
8	ActiveRecord	Adam Lassek , AnoE , Bijal Gajjar , br3nt , D-side , Francesco Lupo Renzi , glapworth , jeffdill2 , Joel Drapper , Luka Kerr , maartenvanvliet , marcamillion , Mario Uher , powerup7 , Sebastialonso , Simone Carletti , Sven Reuter , walid
9	ActiveRecord	Adam Lassek , Aigars Cibulskis , Alex Kitchens , buren , Deepak Mahakale , Dharam , DSimon , Francesco Lupo Renzi , ginioux , Hardik Kanjariya ♪, hschin , jeffdill2 , Kirti Thorat , KULKING , maartenvanvliet , Manish Agarwal , Milo P , Mohamad , MZaragoza , nomatteus , Reboot , Richard Hamilton , rii , Robin , Rodrigo Argumedo , rony36 , Rory O'Kane , tessi , uzaif , webster
10	ActiveRecord	Adam Lassek , fatfrog , Muaaz Rafi
11	ActiveRecord	Adam Lassek , Colin Herzog , Deepak Mahakale , dgilperez , dodo121 , ginioux , Hai Pandu , Hardik Upadhyay , mmichael , Muhammad Abdullah , pablofullana , Richard Hamilton

12	CanCan	4444 , Ahsan Mahmood , dgilperez , mlabarca , toobulkeh
13	Elasticsearch	Don Giovanni , Luc Boissaye
14	l18n -	Cyril Duchon-Doris , Francesco Lupo Renzi , Frederik Spang , gwcodes , Jorge Najera T , Lahiru , RamenChef
15	Mongoid	Ryan K , tes
16	Rails 5	thiago araujo
17	Rails 5 API	HParker
18	Rails API	Adam Lassek , hschin
19	Rails Cookbook - /	Milind
20	Rails -Engines	Deepak Kabbur
21	Rails	Abhinay , Ahsan Mahmood , Antarr Byrd , ArtOfCode , dgilperez , Kieran Andrews , Luka Kerr , Qchmqs , uzaif ,
22	Rails -	Mayur Shah
23	Rails	Adam Lassek , Brandon Williams , Gaston , giniouxe , Hardik Upadhyay , inye , Joel Drapper , Josh Caswell , Luka Kerr , ma_il , msohng , Muaaz Rafi , piton4eg , powerup7 , rony36 , Sri , Tom Lazar
24	Rails	Adam Lassek , ann , Deepak Mahakale , Dharam , Hardik Upadhyay , jackerman09 , Jeremy Green , marcamillion , Milind , Muhammad Abdullah , nomatteus , powerup7 , Reub , Richard Hamilton
25	Rails	Alejandro Montilla , hgsongra
26	RSpecRuby on Rails	Ashish Bista , Scott Matthewman , Simone Carletti
27	Ruby on Rails	Arslan Ali
28	Ruby on Rails	Akshay Borade
29	Turbolinks	Mark
30		Flip , owahab
31	CSV	fool
32	DeviseApi	Vishal Taj PM
33	GoogleMapsRails	fiedl

34	HyperloopReact.js Rails	Mitch VanDuyn
35	RailsAngular	B8vrede , Rory O'Kane , Umar Khan
36	react-rails gem Rails	Kimmo Hintikka , tirdadc
37		Emre Kurt
38	ActiveModel	Adam Lassek , RamenChef
39	Rails	hschin , michaelpri , Rodrigo Argumedo
40		Niyanta , Ruslan , Slava.K , toobulkeh , Vishal Taj PM
41	ID	Thang Le Sy
42		Andrey Deineko , Atul Khanduri , br3nt , Flambino , ginioux , hgsongra , Luka Kerr , Marko Kacanski , Muhammad Abdullah , Sven Reuter , Xinyang Li
43	HerokuRails	B Liu , hschin
44	Rails	Shivasubramanian A
45	ActiveRecord	Fabio Ros
46		DawnPaladin
47	Constantize	Eric Bouchut , Ryan K
48		Deep , hschin , ma_il , MMachinegun , RamenChef
49	Amazon RDS rails	Sathishkumar Jayaraj
50		Rafael Costa
51		aisflat439 , owahab , Richard Hamilton , Simon Tsang , Slava.K
52		Sergey Khmelevskoy
53		Mihai-Andrei Dinculescu
54	Rails	Whitecat
55		danirod , dgilperez , elasticman , Luka Kerr , MikeC , MMachinegun , Pragash , RareFever
56	AASM	Lomefin
57		Darpan Chhatravala

58	Rails	HParker
59		Ahsan Mahmood, MSathieu
60		Deep, hadees, HParker
61	ActionMailer	Adam Lassek, Atul Khanduri, jackerman09, owahab, Phil Ross, Richard Hamilton, Rodrigo Argumedo, William Romero
62	ActiveSupport	Adam Lassek
63		ppascualv, Sathishkumar Jayaraj
64		tirdadc
65		Ali MasudianPour, Undo
66	PDF	Awais Shafqat
67		Adam Lassek
68		Adam Lassek, Dénes Papp, Dharam, Kelseydh, sa77, titan
69		fybw id, Robin
70		Adam Lassek, advishnuprasad, Ahsan Mahmood, Alejandro Babio, Andy Gauge, AppleDash, ArtOfCode, Baldrick, cl3m, Cyril Duchon-Doris, Deepak Mahakale, Dharam, Eliot Sykes, esthervillars, Fabio Ros, Fire-Dragon-DoL, Francesco Lupo Renzi, giniouxe, Giuseppe, Hassan Akram, Hizqeel, HungryCoder, jkdev, John Slegers, Jon Wood, Kevin Sylvestre, Kieran Andrews, Kirti Thorat, KULKING, Leito, Mario Uher, Milind, Muhammad Faisal Iqbal, niklashultstrom, nuclearpidgeon, pastullo, Rahul Singh, rap-2-h, Raynor Kuang, Richard Hamilton, Robin, rogerdpack, Rory O'Kane, Ryan Hilbert, Ryan K, Silviu Simeria, Simone Carletti, sohail khalil, Stephen Leppik, TheChamp, Thor odinson, Undo, Zoran,
71		ppascualv, Sathishkumar Jayaraj
72		ArtOfCode, Cuisine Hacker, Khanh Pham, RamenChef, tirdadc