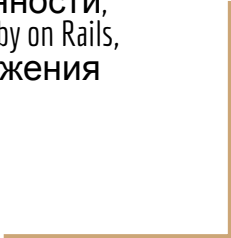




Ruby on Rails. Введение

История создания, особенности,
популярные проекты на Ruby on Rails,
создание базового приложения



Фреймворк Ruby on Rails



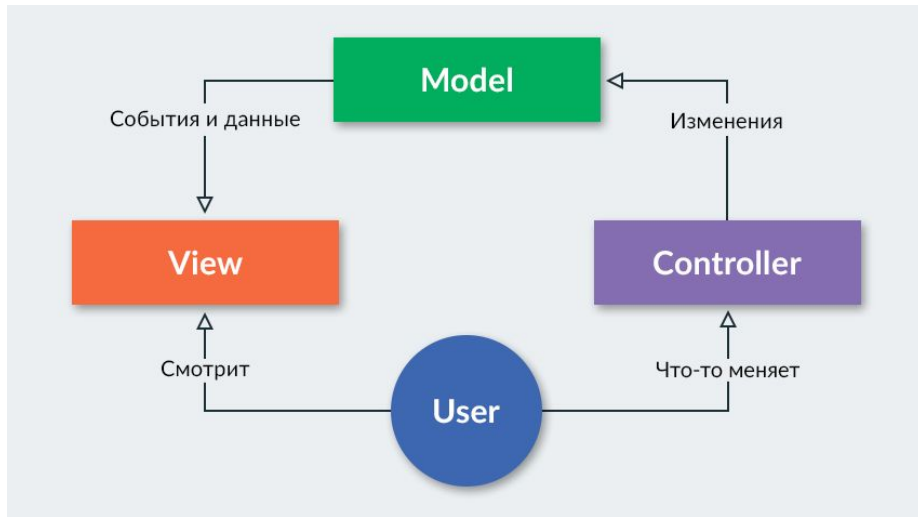
- к 2011 году были реализованы практически все наиболее перспективные технологии (TDD, MVC, AJAX);
- фреймворк продолжает развиваться и на данный момент актуальная версия – 7.0.3.1

- фреймворк был создан в 2004 году в компании 37signals (сейчас Basecamp);
- создан в процессе работы над программой управления проектами;
- автор проекта: Давид Хейнемейер Ханссон.



Особенности фреймворка

- реализован паттерн веб-приложений *Model-View-Controller*;
- по максимуму используются механизмы повторного использования для избежания дублирования кода (*Don't Repeat Yourself*);
- используется принцип *Convention over configuration*;
- обеспечивается хорошая безопасность проекта (защита от SQL-инъекций, Cross-Site Scripting атаки).



Популярные проекты на RoR

 Basecamp

 HEY

GitHub

 *shopify*

 twitch

dribbble

hulu

zendesk

 airbnb

 Square

KICKSTARTER

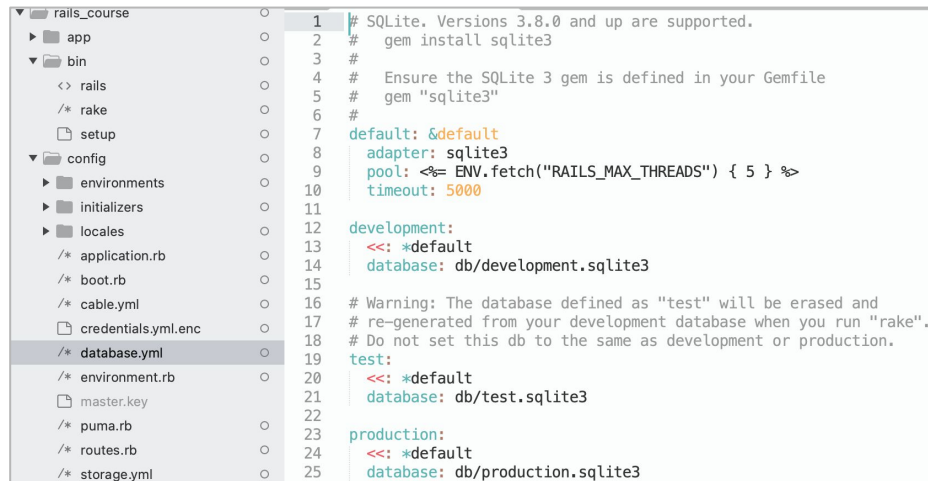
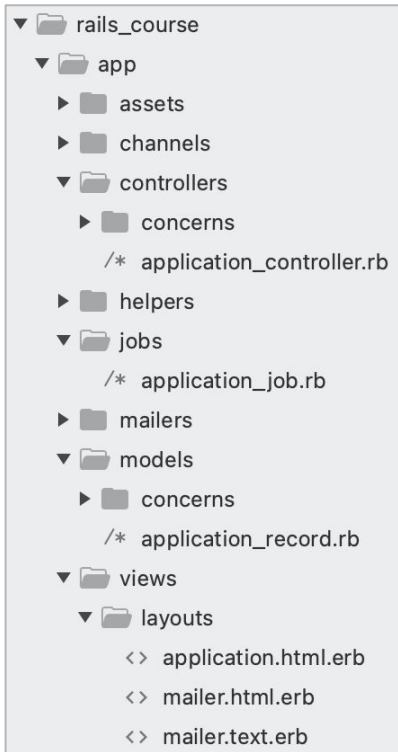
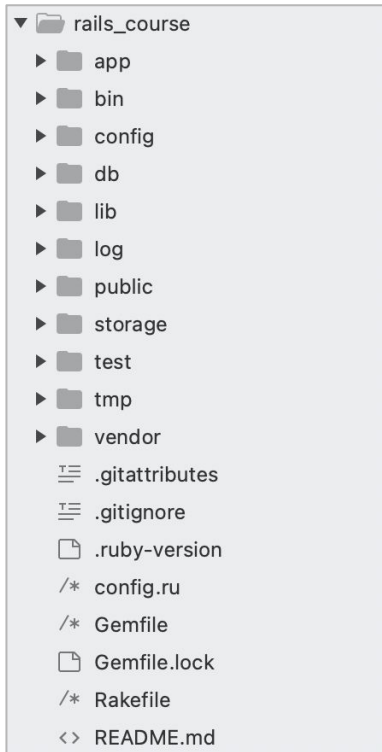
 HEROKU

coinbase

 SOUNDCLLOUD

 cookpad

Структура Rails-проекта



Команда для создания проекта

```
+ ~ rails new --help
Usage:
  rails new APP_PATH [options]

Options:
  [--skip-namespace], [--no-skip-namespace] # Skip namespace (affects only isolated engines)
  [--skip-collision-check], [--no-skip-collision-check] # Skip collision check
  -r, [--ruby=PATH] # Path to the Ruby binary of your choice
                  # Default: /Users/alex/.rvm/rubies/ruby-3.1.1/bin/ruby
  -m, [--template=TEMPLATE] # Path to some application template (can be a filesystem path or URL)
  -d, [--database=DATABASE] # Preconfigure for selected database (options: mysql/postgresql/sqlite3/oracle/sqlserver/jdbcmysql/jdbcsqlite3/jdbcpostgresql/jdbc)
  # Default: sqlite3
  -G, [--skip-git], [--no-skip-git] # Skip .gitignore file
  [--skip-keeps], [--no-skip-keeps] # Skip source control .keep files
  -M, [--skip-action-mailer], [--no-skip-action-mailer] # Skip Action Mailer files
  [--skip-action-mailbox], [--no-skip-action-mailbox] # Skip Action Mailbox gem
  [--skip-action-text], [--no-skip-action-text] # Skip Action Text gem
  -O, [--skip-active-record], [--no-skip-active-record] # Skip Active Record files
  [--skip-active-job], [--no-skip-active-job] # Skip Active Job
  [--skip-active-storage], [--no-skip-active-storage] # Skip Active Storage files
  -C, [--skip-action-cable], [--no-skip-action-cable] # Skip Action Cable files
  -A, [--skip-asset-pipeline], [--no-skip-asset-pipeline] # Indicates when to generate skip asset pipeline
  -a, [--asset-pipeline=ASSET_PIPELINE] # Choose your asset pipeline [options: sprockets (default), propshaft]
  # Default: sprockets
  -J, [--skip-javascript], [--no-skip-javascript] # Skip JavaScript files
  [--skip-hotwire], [--no-skip-hotwire] # Skip Hotwire integration
  [--skip-jbuilder], [--no-skip-jbuilder] # Skip jbuilder gem
  -T, [--skip-test], [--no-skip-test] # Skip test files
  [--skip-system-test], [--no-skip-system-test] # Skip system test files
  [--skip-bootsnap], [--no-skip-bootsnap] # Skip bootsnap gem
  [--dev], [--no-dev] # Set up the application with Gemfile pointing to your Rails checkout
  [--edge], [--no-edge] # Set up the application with Gemfile pointing to Rails repository
  --master, [--no-master], [--no-main] # Set up the application with Gemfile pointing to Rails repository main branch
  [--rc=RC] # Path to file containing extra configuration options for rails command
  [--no-rc], [--no-no-rc] # Skip loading of extra configuration options from .railsrc file
  [--api], [--no-api] # Preconfigure smaller stack for API only apps
  [--minimal], [--no-minimal] # Preconfigure a minimal rails app
  -j, [--javascript=JAVASCRIPT] # Choose JavaScript approach [options: importmap (default), webpack, esbuild, rollup]
  # Default: importmap
  -c, [--css=CSS] # Choose CSS processor [options: tailwind, bootstrap, bulma, postcss, sass... check https://github.com/rails/cssbundling-rails]
  -B, [--skip-bundle], [--no-skip-bundle] # Don't run bundle install
```

Доступные команды в проекте

```
→ rails_course git:(main) x rails --help
The most common rails commands are:
generate      Generate new code (short-cut alias: "g")
console       Start the Rails console (short-cut alias: "c")
server        Start the Rails server (short-cut alias: "s")
test          Run tests except system tests (short-cut alias: "t")
test:system   Run system tests
dbconsole      Start a console for the database specified in config/database.yml
              (short-cut alias: "db")
new           Create a new Rails application. "rails new my_app" creates a
              new application called MyApp in "./my_app"
plugin new     Create a new Rails railtie or engine
```

All commands can be run with -h (or --help) for more information.
In addition to those commands, there are:

```
about
action_mailbox:ingress:exim
action_mailbox:ingress:postfix
action_mailbox:ingress:qmail
action_mailbox:install
action_mailbox:install:migrations
action_text:install
action_text:install:migrations
active_storage:install
app:template
app:update
assets:clean[keep]
assets:clobber
assets:environment
assets:precompile
cache_digests:dependencies
cache_digests:nested_dependencies
credentials:diff
credentials:edit
credentials:show
db:create
db:drop
db:encryption:init
db:environment:set
db:fixtures:load
db:migrate
db:migrate:down
#...and many more...
```

```
→ rails_course git:(main) x rails generate --help
Usage: rails generate GENERATOR [args] [options]
```

General options:

```
-h, [--help]           # Print generator's options and usage
-p, [--pretend]        # Run but do not make any changes
-f, [--force]          # Overwrite files that already exist
-s, [--skip]           # Skip files that already exist
-q, [--quiet]          # Suppress status output
```

Please choose a generator below.

Rails:

```
application_record
benchmark
channel
controller
generator
helper
integration_test
jbuilder
job
mailbox
mailer
migration
model
resource
scaffold
scaffold_controller
system_test
task
```

ActiveRecord:

```
active_record:application_record
active_record:multi_db
```

Команда запуска проекта

```
→ rails_course git:(main) x rails s --help
```

Usage:

```
rails server -u [thin/puma/webrick] [options]
```

Options:

-e, [--environment=ENVIRONMENT]	# Specifies the environment to run this server under (test/development/production).
-p, [--port=port]	# Runs Rails on the specified port - defaults to 3000.
-b, [--binding=IP]	# Binds Rails to the specified IP - defaults to 'localhost' in development and '0.0.0.0' in other environments'.
-c, [--config=file]	# Uses a custom rackup configuration. # Default: config.ru
-d, [--daemon], [--no-daemon]	# Runs server as a Daemon.
-u, [--using=name]	# Specifies the Rack server used to run the application (thin/puma/webrick).
-P, [--pid=PID]	# Specifies the PID file - defaults to tmp/pids/server.pid.
-C, [--dev-caching], [--no-dev-caching]	# Specifies whether to perform caching in development.
[--early-hints], [--no-early-hints]	# Enables HTTP/2 early hints.
[--log-to-stdout], [--no-log-to-stdout]	# Whether to log to stdout. Enabled by default in development when not daemonized.

```
→ rails_course git:(main) x rails c -h
```

Usage:

```
rails console [options]
```

Options:

-e, [--environment=ENVIRONMENT]	# Specifies the environment to run this console under (test/development/production).
-s, [--sandbox], [--no-sandbox]	# Rollback database modifications on exit.

Полезные ссылки

<https://rubyonrails.org> – Официальный сайт Ruby on Rails;

<http://rusrails.ru/getting-started> – Руководство по фреймворку.

Конец! Спасибо!