

## **Rails Application Templates**

created Rails project or an existing Rails project. After reading this guide, you will know:

Application templates are simple Ruby files containing DSL for adding gems, initializers, etc. to your freshly

 How to use templates to generate/customize Rails applications. • How to write your own reusable application templates using the Rails template API.

apply using the -m option. This can either be a path to a file or a URL.

## 1 Usage

\$ rails new blog -m ~/template.rb

To apply a template, you need to provide the Rails generator with the location of the template you wish to

```
$ rails new blog -m http://example.com/template.rb
                                                                                             COPY
You can use the app:template rails command to apply templates to an existing Rails application. The
location of the template needs to be passed in via the LOCATION environment variable. Again, this can
```

\$ bin/rails app:template LOCATION=~/template.rb \$ bin/rails app:template LOCATION=http://example.com/template.rb

```
2 Template API
```

## # template.rb

either be path to a file or a URL.

generate(:scaffold, "person name:string") route "root to: 'people#index'"

The Rails templates API is easy to understand. Here's an example of a typical Rails template:

```
rails_command("db:migrate")
 after_bundle do
   git :init
   git add: "."
   git commit: %Q{ -m 'Initial commit' }
 end
                                                                                    COPY
The following sections outline the primary methods provided by the API:
2.1 gem(*args)
```

For example, if your application depends on the gems bj and nokogiri:

Adds a gem entry for the supplied gem to the generated application's Gemfile.

## gem "bj"

gem "nokogiri"

Note that this method only adds the gem to the Gemfile; it does not install the gem.

And you can also add comments that will be added to the Gemfile:

2.2 gem\_group(\*names, &block)

gem\_group :development, :test do

gem "rspec-rails"

gem "rspec-rails"

!nil?

def not\_blank?

!blank?

end

end

end

CODE

end

end

```
You can also specify an exact version:
 gem "nokogiri", "~> 1.16.4"
                                                                                          COPY
```

gem "nokogiri", "~> 1.16.4", comment: "Add the nokogiri gem for XML parsing" COPY

```
Wraps gem entries inside a group.
For example, if you want to load rspec-rails only in the development and test groups:
```

For example, if you need to source a gem from "http://gems.github.com":

add\_source "http://gems.github.com/" do

A block can be used in place of the data argument.

2.3 add\_source(source, options={}, &block)

Adds the given source to the generated application's Gemfile.

```
add_source "http://gems.github.com"
                                                                                             COPY
If block is given, gem entries in block are wrapped into the source group.
```

If options[:env] is specified, the line is appended to the corresponding file in config/environments.

"http://yourwebsite.example.com"}', env: "production"

Let's say you like using Object#not\_nil? and Object#not\_blank?:

That'll create the app/components directory and put foo.rb in there.

2.6 rakefile(filename, data = nil, &block)

task :strap do

end

end

TASK

end

file:

application:

2.11 inside(dir)

2.12 ask(question)

puts "i like boots!"

Runs the supplied rails generator with given arguments.

Creates a new rake file under lib/tasks with the supplied tasks:

environment 'config.action\_mailer.default\_url\_options = {host:

Adds an initializer to the generated application's config/initializers directory.

Adds a line inside the Application class for config/application.rb.

2.4 environment/application(data=nil, options={}, &block)

2.5 vendor/lib/file/initializer(filename, data = nil, &block)

initializer "bloatlol.rb", <<-CODE</pre> class Object def not\_nil?

```
[COPY]
Similarly, lib() creates a file in the lib/ directory and vendor() creates a file in the vendor/
directory.
There is even file(), which accepts a relative path from Rails.root and creates all the directories/files
needed:
 file "app/components/foo.rb", <<-CODE</pre>
    class Foo
    end
  CODE
                                                                                                COPY
```

rakefile("bootstrap.rake") do <<-TASK namespace :boot do

The above creates lib/tasks/bootstrap.rake with a boot:strap rake task. 2.7 generate(what, \*args)

generate(:scaffold, "person", "name:string", "address:text", "age:number")

Executes an arbitrary command. Just like the backticks. Let's say you want to remove the README.rdoc

run "rm README.rdoc" 2.9 rails\_command(command, options = {})

rails\_command "db:migrate"

You can also run commands as a super-user:

route "root to: 'person#index'"

you wish to symlink from your new apps, you can do this:

want your user to name the new shiny library you're adding:

lib\_name << ".rb" unless lib\_name.index(".rb")</pre>

2.13 yes?(question) or no?(question)

say you want to prompt the user to run migrations:

2.15 after\_bundle(&block)

adding generated files to version control:

after\_bundle do

git add: "."

def source\_paths

[\_\_dir\_\_]

end

3 Advanced Usage

git :init

rails\_command "log:clear", sudo: true

You can also run commands that should abort application generation if they fail:

2.8 run(command)

You can also run commands with a different Rails environment: rails\_command "db:migrate", env: "production"

Runs the supplied command in the Rails application. Let's say you want to migrate the database:

```
rails_command "db:migrate", abort_on_failure: true
                                                                                       COPY
2.10 route(routing_code)
Adds a routing entry to the config/routes.rb file. In the steps above, we generated a person scaffold
and also removed README.rdoc. Now, to make PeopleController#index the default page for the
```

Enables you to run a command from the given directory. For example, if you have a copy of edge rails that

inside("vendor") do run "ln -s ~/commit-rails/rails rails" end

lib\_name = ask("What do you want to call the shiny library ?")

rails\_command("db:migrate") if yes?("Run database migrations?")

lib lib\_name, <<-CODE</pre> class Shiny end CODE COPY

These methods let you ask questions from templates and decide the flow based on the user's answer. Let's

# no?(question) acts just the opposite. COPY 2.14 git(:command) Rails templates let you run any git command: git :init git add: "." git commit: "-a -m 'Initial commit'" COPY

git commit: "-a -m 'Initial commit'" end The callbacks gets executed even if --skip-bundle has been passed.

```
The application template is evaluated in the context of a Rails::Generators::AppGenerator instance.
It uses the apply action provided by Thor.
This means you can extend and change the instance to match your needs.
For example by overwriting the source_paths method to contain the location of your template. Now
methods like copy_file will accept relative paths to your template's location.
```

**Feedback** 

You're encouraged to help improve the quality of this guide. Please contribute if you see any typos or factual errors. To get started, you can read our documentation contributions section.

You may also find incomplete content or stuff that is not up to date. Please do add any missing documentation for main. Make sure to check <u>Edge Guides</u> first to verify if the issues are already fixed or not on the main branch. Check the Ruby on Rails Guides Guidelines for style and conventions.

**Chapters** 

**Guides Index** 

Contribute

1. Usage 2. Template API gem(\*args)

> add\_source(source, options={}, &block) environment/application(data=nil, options={}, &block)

gem\_group(\*names, &block)

data = nil, &block) rakefile(filename, data = nil,

vendor/lib/file/initializer(filename,

&block) a apparato/what \*aracl

COPY

ask() gives you a chance to get some feedback from the user and use it in your templates. Let's say you

Registers a callback to be executed after the gems are bundled and binstubs are generated. Useful for COPY

This work is licensed under a "Rails", "Ruby on Rails", and the Rails logo are trademarks of David Heinemeier Hansson. All rights reserved.

If for whatever reason you spot something to fix but cannot patch it yourself, please open an issue. And last but not least, any kind of discussion regarding Ruby on Rails documentation is very welcome on the official Ruby on Rails Forum.