### Prelude

Role models are important. - Officer Alex J. Murphy / RoboCop

The goal of this guide is to present a set of best practices and style prescriptions for Ruby on Rails 4 development. It's a complementary guide to the already existing community-driven Ruby coding style guide.

Some of the advice here is applicable only to Rails 4.0+.

You can generate a PDF or an HTML copy of this guide using Pandoc.

Translations of the guide are available in the following languages:

- Chinese Simplified
- Chinese Traditional
- Japanese
- Russian
- Turkish
- Korean
- Vietnamese
- Portuguese (pt-BR)

# The Rails Style Guide

This Rails style guide recommends best practices so that real-world Rails programmers can write code that can be maintained by other real-world Rails programmers. A style guide that reflects real-world usage gets used, and a style guide that holds to an ideal that has been rejected by the people it is supposed to help risks not getting used at all – no matter how good it is.

The guide is separated into several sections of related rules. I've tried to add the rationale behind the rules (if it's omitted I've assumed it's pretty obvious).

I didn't come up with all the rules out of nowhere - they are mostly based on my extensive career as a professional software engineer, feedback and suggestions from members of the Rails community and various highly regarded Rails programming resources.

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#### Configuration

- Put custom initialization code in config/initializers. The code in initializers executes on application startup. [link]
- Keep initialization code for each gem in a separate file with the same name as the gem, for example carrierwave.rb, active\_admin.rb, etc. [link]
- Adjust accordingly the settings for development, test and production environment (in the corresponding files under config/environments/) [link]
  - Mark additional assets for precompilation (if any):

```
# config/environments/production.rb
# Precompile additional assets (application.js, application.css,
#and all non-JS/CSS are already added)
config.assets.precompile += %w( rails admin/rails admin.css rails admin/rails admin/rails
```

- Keep configuration that's applicable to all environments in the config/application.rb file. [link]
- Create an additional staging environment that closely resembles the production one. [link]
- Keep any additional configuration in YAML files under the config/ directory. [link]

Since Rails 4.2 YAML configuration files can be easily loaded with the new config\_for method:

```
Rails::Application.config_for(:yaml_file)
```

#### Routing

• When you need to add more actions to a RESTful resource (do you really need them at all?) use member and collection routes. [link]

```
# bad
  get 'subscriptions/:id/unsubscribe'
  resources :subscriptions
  # good
  resources :subscriptions do
    get 'unsubscribe', on: :member
  \quad \text{end} \quad
  # bad
  get 'photos/search'
  resources :photos
  # good
  resources :photos do
    get 'search', on: :collection
  end
• If you need to define multiple member/collection routes use the alterna-
  tive block syntax. [link]
  resources :subscriptions do
    member do
      get 'unsubscribe'
      # more routes
    end
  end
  resources :photos do
    collection do
      get 'search'
      # more routes
    end
  end
• Use nested routes to express better the relationship between ActiveRecord
  models. [link]
  class Post < ActiveRecord::Base</pre>
    has_many :comments
  end
  class Comment < ActiveRecord::Base</pre>
    belongs_to :post
  end
  # routes.rb
  resources :posts do
```

```
resources :comments end
```

• If you need to nest routes more than 1 level deep then use the shallow: true option. This will save user from long urls posts/1/comments/5/versions/7/edit and you from long url helpers edit\_post\_comment\_version.

```
resources :posts, shallow: true do
  resources :comments do
    resources :versions
  end
end
```

• Use namespaced routes to group related actions. [link]

```
namespace :admin do
    # Directs /admin/products/* to Admin::ProductsController
    # (app/controllers/admin/products_controller.rb)
    resources :products
```

• Never use the legacy wild controller route. This route will make all actions in every controller accessible via GET requests. [link]

```
# very bad
match ':controller(/:action(/:id(.:format)))'
```

• Don't use match to define any routes unless there is need to map multiple request types among [:get, :post, :patch, :put, :delete] to a single action using :via option. [link]

#### Controllers

- Keep the controllers skinny they should only retrieve data for the view layer and shouldn't contain any business logic (all the business logic should naturally reside in the model). [link]
- Each controller action should (ideally) invoke only one method other than an initial find or new. [link]
- Share no more than two instance variables between a controller and a view. [link]
- Controller actions specified in the option of Action Filter should be in lexical scope. The ActionFilter specified for an inherited action makes it difficult to understand the scope of its impact on that action. [link]

```
# bad
class UsersController < ApplicationController
before action :require login, only: :export</pre>
```

```
class UsersController < ApplicationController</pre>
 before_action :require_login, only: :export
 def export
  end
end
Rendering
  • Prefer using a template over inline rendering. [link]
# very bad
class ProductsController < ApplicationController</pre>
 def index
    render inline: "<% products.each do |p| %><%= p.name %><% end %>", type: :erb
  end
end
# good
## app/views/products/index.html.erb
<%= render partial: 'product', collection: products %>
## app/views/products/_product.html.erb
<%= product.name %>
<%= product.price %>
## app/controllers/foo_controller.rb
class ProductsController < ApplicationController</pre>
 def index
    render :index
  end
end
  • Prefer render plain: over render text:. [link]
# bad - sets MIME type to `text/html`
render text: 'Ruby!'
. . .
# bad - requires explicit MIME type declaration
render text: 'Ruby!', content_type: 'text/plain'
```

end

# good

```
# good - short and precise
...
render plain: 'Ruby!'
...

• Prefer corresponding symbols to numeric HTTP status codes. They are meaningful and do not look like "magic" numbers for less known HTTP status codes. [link]

# bad
...
render status: 403
...
# good
...
render status: :forbidden
...
```

#### Models

- Introduce non-ActiveRecord model classes freely. [link]
- Name the models with meaningful (but short) names without abbreviations. [link]
- If you need model objects that support Active Record behavior (like validation) without the Active Record database functionality use the Active Attr gem. [link]

```
class Message
  include ActiveAttr::Model

attribute :name
  attribute :email
  attribute :content
  attribute :priority

attr_accessible :name, :email, :content

validates :name, presence: true
  validates :email, format: { with: /\A[-a-z0-9_+\.]+\@([-a-z0-9]+\.)+[a-z0-9]{2,4}\z/i
  validates :content, length: { maximum: 500 }
end
```

For a more complete example refer to the RailsCast on the subject.

• Unless they have some meaning in the business domain, don't put methods in your model that just format your data (like code generating HTML). These methods are most likely going to be called from the view layer only, so their place is in helpers. Keep your models for business logic and data-persistence only. [link]

#### ActiveRecord

• Avoid altering ActiveRecord defaults (table names, primary key, etc) unless you have a very good reason (like a database that's not under your control). [link]

```
# bad - don't do this if you can modify the schema
class Transaction < ActiveRecord::Base
  self.table_name = 'order'
  ...
end</pre>
```

• Group macro-style methods (has\_many, validates, etc) in the beginning of the class definition. [link]

```
class User < ActiveRecord::Base</pre>
  # keep the default scope first (if any)
 default_scope { where(active: true) }
  # constants come up next
  COLORS = %w(red green blue)
  # afterwards we put attr related macros
  attr_accessor :formatted_date_of_birth
  attr_accessible :login, :first_name, :last_name, :email, :password
  # Rails4+ enums after attr macros, prefer the hash syntax
  enum gender: { female: 0, male: 1 }
  # followed by association macros
 belongs_to :country
 has_many :authentications, dependent: :destroy
  # and validation macros
  validates :email, presence: true
  validates :username, presence: true
  validates :username, uniqueness: { case_sensitive: false }
  validates : username, format: { with: /A[A-Za-z][A-Za-z0-9._-]{2,19}\z/ }
```

```
validates :password, format: { with: /\A\S{8,128}\z/, allow_nil: true }
    # next we have callbacks
    before_save :cook
    before_save :update_username_lower
    # other macros (like devise's) should be placed after the callbacks
  end
• Prefer has_many:through to has_and_belongs_to_many.
                                                              Using
  has_many :through allows additional attributes and validations on the
 join model. [link]
  # not so good - using has_and_belongs_to_many
  class User < ActiveRecord::Base</pre>
    has_and_belongs_to_many :groups
  end
  class Group < ActiveRecord::Base</pre>
    has_and_belongs_to_many :users
  end
  # preferred way - using has_many :through
  class User < ActiveRecord::Base</pre>
    has many :memberships
    has_many :groups, through: :memberships
  class Membership < ActiveRecord::Base</pre>
    belongs_to :user
    belongs_to :group
  end
  class Group < ActiveRecord::Base</pre>
    has_many :memberships
    has_many :users, through: :memberships
  end
• Prefer self[:attribute] over read_attribute(:attribute). [link]
  # bad
  def amount
    read attribute(:amount) * 100
  end
  # good
```

```
def amount
    self[:amount] * 100
• Prefer self[:attribute] = value over write_attribute(:attribute,
  value). [link]
  # bad
  def amount
    write attribute(:amount, 100)
  end
  # good
  def amount
    self[:amount] = 100
  end
• Always use the new "sexy" validations. [link]
  # bad
  validates_presence_of :email
  validates_length_of :email, maximum: 100
  # good
  validates :email, presence: true, length: { maximum: 100 }
• To make validations easy to read, don't list multiple attributes per valida-
  tion [link]
  # bad
  validates :email, :password, presence: true
  validates :email, length: { maximum: 100 }
  # good
  validates :email, presence: true, length: { maximum: 100 }
  validates :password, presence: true
\bullet~ When a custom validation is used more than once or the validation is some
  regular expression mapping, create a custom validator file. [link]
  # bad
  class Person
    validates :email, format: { with: /A([^0\s]+)@((?:[-a-z0-9]+\.)+[a-z]{2,})\z/i }
  end
  # good
  class EmailValidator < ActiveModel::EachValidator</pre>
    def validate_each(record, attribute, value)
      record.errors[attribute] << (options[:message] || 'is not a valid email') unless va
    end
```

```
end
```

```
class Person
  validates :email, email: true
end
```

- Keep custom validators under app/validators. [link]
- Consider extracting custom validators to a shared gem if you're maintaining several related apps or the validators are generic enough. [link]
- Use named scopes freely. [link]

```
class User < ActiveRecord::Base
  scope :active, -> { where(active: true) }
  scope :inactive, -> { where(active: false) }

scope :with_orders, -> { joins(:orders).select('distinct(users.id)') }
end
```

• When a named scope defined with a lambda and parameters becomes too complicated, it is preferable to make a class method instead which serves the same purpose of the named scope and returns an ActiveRecord::Relation object. Arguably you can define even simpler scopes like this. [link]

```
class User < ActiveRecord::Base
  def self.with_orders
    joins(:orders).select('distinct(users.id)')
  end
end</pre>
```

• Order callback declarations in the order, in which they will be executed. For reference, see Available Callbacks [link]

#### #bad

```
class Person
```

```
after_commit/after_rollback :after_commit_callback
after_save :after_save_callback
around_save :around_save_callback
after_update :after_update_callback
before_update :before_update_callback
after_validation :after_validation_callback
before_validation :before_validation_callback
before_save :before_save_callback
before_create :before_create_callback
after_create :after_create_callback
around_create :around_create_callback
around_update :around_update_callback
end
```

#### #qood

# class Person

```
before_validation :before_validation_callback
after_validation :after_validation_callback
before_save :before_save_callback
around_save :around_save_callback
before_create :before_create_callback
around create : around create callback
after_create :after_create_callback
before_update :before_update_callback
around_update :around_update_callback
after_update :after_update_callback
after save :after save callback
after_commit/after_rollback :after_commit_callback
```

Beware of the behavior of the following methods. They do not run the model validations and could easily corrupt the model state. [link]

```
Article.first.decrement!(:view_count)
DiscussionBoard.decrement_counter(:post_count, 5)
Article.first.increment!(:view_count)
DiscussionBoard.increment_counter(:post_count, 5)
person.toggle :active
product.touch
Billing.update_all("category = 'authorized', author = 'David'")
user.update_attribute(:website, 'example.com')
user.update_columns(last_request_at: Time.current)
Post.update_counters 5, comment_count: -1, action_count: 1
user.update attributes(website: 'example.com')
```

- Use user-friendly URLs. Show some descriptive attribute of the model in the URL rather than its id. There is more than one way to achieve this: [link]
  - Override the to\_param method of the model. This method is used by Rails for constructing a URL to the object. The default implementation returns the id of the record as a String. It could be overridden to include another human-readable attribute.

```
class Person
 def to param
    "#{id} #{name}".parameterize
 end
```

#### end

In order to convert this to a URL-friendly value, parameterize should be called on the string. The id of the object needs to be at the beginning so that it can be found by the find method of ActiveRecord.

 Use the friendly\_id gem. It allows creation of human-readable URLs by using some descriptive attribute of the model instead of its id.

```
class Person
  extend FriendlyId
  friendly_id :name, use: :slugged
end
```

Check the gem documentation for more information about its usage.

• Use find\_each to iterate over a collection of AR objects. Looping through a collection of records from the database (using the all method, for example) is very inefficient since it will try to instantiate all the objects at once. In that case, batch processing methods allow you to work with the records in batches, thereby greatly reducing memory consumption. [link]

```
# bad
Person.all.each do |person|
  person.do_awesome_stuff
end
Person.where('age > 21').each do |person|
  person.party_all_night!
end
# good
Person.find_each do |person|
  person.do_awesome_stuff
end
Person.where('age > 21').find_each do |person|
  person.party_all_night!
Since Rails creates callbacks for dependent associations, always call
before_destroy callbacks that perform validation with prepend: true.
# bad (roles will be deleted automatically even if super_admin? is true)
has many :roles, dependent: :destroy
```

before destroy :ensure deletable

```
def ensure_deletable
    raise "Cannot delete super admin." if super_admin?
  end
  # good
 has_many :roles, dependent: :destroy
 before_destroy :ensure_deletable, prepend: true
  def ensure_deletable
    raise "Cannot delete super admin." if super_admin?
  end
• Define the dependent option to the has_many and has_one associations.
  [link]
  # bad
  class Post < ActiveRecord::Base</pre>
    has_many :comments
  end
  # good
  class Post < ActiveRecord::Base</pre>
    has_many :comments, dependent: :destroy
  end
• When persisting AR objects always use the exception raising bang!
  method or handle the method return value. This applies to create, save,
  update, destroy, first_or_create and find_or_create_by. [link]
  # bad
  user.create(name: 'Bruce')
  # bad
 user.save
  # good
  user.create!(name: 'Bruce')
  bruce = user.create(name: 'Bruce')
  if bruce.persisted?
  else
  end
  # good
  user.save!
```

```
# or
if user.save
    ...
else
    ...
end
```

#### ActiveRecord Queries

• Avoid string interpolation in queries, as it will make your code susceptible to SQL injection attacks. [link]

```
# bad - param will be interpolated unescaped
Client.where("orders_count = #{params[:orders]}")
# good - param will be properly escaped
Client.where('orders_count = ?', params[:orders])
```

• Consider using named placeholders instead of positional placeholders when you have more than 1 placeholder in your query. [link]

```
# okish
Client.where(
  'created_at >= ? AND created_at <= ?',
  params[:start_date], params[:end_date]
)

# good
Client.where(
  'created_at >= :start_date AND created_at <= :end_date',
  start_date: params[:start_date], end_date: params[:end_date]
)</pre>
```

• Favor the use of find over where.take!, find\_by!, and find\_by\_id! when you need to retrieve a single record by primary key id and raise ActiveRecord::RecordNotFound when the record is not found. [link]

```
# bad
User.where(id: id).take!
# bad
User.find_by_id!(id)
# bad
User.find_by!(id: id)
```

```
# good
User.find(id)
```

• Favor the use of find\_by over where.take and find\_by\_attribute when you need to retrieve a single record by one or more attributes and return nil when the record is not found. [link]

```
# bad
User.where(id: id).take
User.where(first_name: 'Bruce', last_name: 'Wayne').take

# bad
User.find_by_id(id)
# bad, deprecated in ActiveRecord 4.0, removed in 4.1+
User.find_by_first_name_and_last_name('Bruce', 'Wayne')

# good
User.find_by(id: id)
User.find_by(first_name: 'Bruce', last_name: 'Wayne')

• Favor the use of where.not over SQL. [link]

# bad
User.where("id != ?", id)

# good
User.where.not(id: id)
```

• Don't use the id column for ordering. The sequence of ids is not guaranteed to be in any particular order, despite often (incidentally) being chronological. Use a timestamp column to order chronologically. As a bonus the intent is clearer. [link]

```
# bad
scope :chronological, -> { order(id: :asc) }
# good
scope :chronological, -> { order(created_at: :asc) }
```

• Favor the use of ids over  ${\tt pluck(:id)}.$   $[{\tt link}]$ 

```
# bad
User.pluck(:id)
# good
User.ids
```

• When specifying an explicit query in a method such as find\_by\_sql, use heredocs with squish. This allows you to legibly format the SQL with

line breaks and indentations, while supporting syntax highlighting in many tools (including GitHub, Atom, and RubyMine). [link]

```
User.find_by_sql(<<-SQL.squish)
   SELECT
    users.id, accounts.plan
   FROM
    users
   INNER JOIN
    accounts
   ON
    accounts.user_id = users.id
   # further complexities...
SQL</pre>
```

String#squish removes the indentation and newline characters so that your server log shows a fluid string of SQL rather than something like this:

 ${\tt SELECT\n} \quad {\tt users.id, accounts.plan\n} \quad {\tt FROM\n} \quad {\tt users\n} \quad {\tt INNER JOIN\n}$ 

acounts\n ON

• When querying ActiveRecord collections, prefer size (selects between count/length behavior based on whether collection is already loaded) or length (always loads the whole collection and counts the array elements) over count (always does a database query for the count). [link]

```
# bad
User.count
# good
User.all.size
# good - if you really need to load all users into memory
User.all.length
```

#### **Migrations**

- Keep the schema.rb (or structure.sql) under version control. [link]
- Use rake db:schema:load instead of rake db:migrate to initialize an empty database. [link]
- Enforce default values in the migrations themselves instead of in the application layer. [link]

```
# bad - application enforced default value
class Product < ActiveRecord::Base
  def amount
    self[:amount] || 0
  end</pre>
```

```
# good - database enforced
class AddDefaultAmountToProducts < ActiveRecord::Migration
  def change
    change_column_default :products, :amount, 0
  end
end</pre>
```

While enforcing table defaults only in Rails is suggested by many Rails developers, it's an extremely brittle approach that leaves your data vulnerable to many application bugs. And you'll have to consider the fact that most non-trivial apps share a database with other applications, so imposing data integrity from the Rails app is impossible.

- Enforce foreign-key constraints. As of Rails 4.2, ActiveRecord supports foreign key constraints natively. [link]
- When writing constructive migrations (adding tables or columns), use the change method instead of up and down methods. [link]

```
# the old way
class AddNameToPeople < ActiveRecord::Migration
  def up
    add_column :people, :name, :string
  end

def down
    remove_column :people, :name
  end
end

# the new preferred way
class AddNameToPeople < ActiveRecord::Migration
  def change
    add_column :people, :name, :string
  end
end</pre>
```

• If you have to use models in migrations, make sure you define them so that you don't end up with broken migrations in the future [link]

```
# db/migrate/<migration_file_name>.rb
# frozen_string_literal: true

# bad
class ModifyDefaultStatusForProducts < ActiveRecord::Migration
    def change
    old_status = 'pending_manual_approval'</pre>
```

```
new_status = 'pending_approval'
   reversible do |dir|
      dir.up do
        Product.where(status: old_status).update_all(status: new_status)
        change_column :products, :status, :string, default: new_status
      end
      dir.down do
        Product.where(status: new_status).update_all(status: old_status)
        change_column :products, :status, :string, default: old_status
    end
  end
end
# good
# Define `table_name` in a custom named class to make sure that
# you run on the same table you had during the creation of the migration.
# In future if you override the `Product` class
# and change the `table_name`, it won't break
# the migration or cause serious data corruption.
class MigrationProduct < ActiveRecord::Base</pre>
  self.table_name = :products
end
class ModifyDefaultStatusForProducts < ActiveRecord::Migration</pre>
  def change
   old_status = 'pending_manual_approval'
   new_status = 'pending_approval'
   reversible do |dir|
      dir.up do
        MigrationProduct.where(status: old_status).update_all(status: new_status)
        change_column :products, :status, :string, default: new_status
      end
      dir.down do
        MigrationProduct.where(status: new_status).update_all(status: old_status)
        change_column :products, :status, :string, default: old_status
      end
    end
  end
end
```

• Name your foreign keys explicitly instead of relying on Rails auto-

```
generated FK names. (http://guides.rubyonrails.org/active_record_migrations.html#foreign-
  keys) [link]
  # bad
  class AddFkArticlesToAuthors < ActiveRecord::Migration</pre>
    def change
      add_foreign_key :articles, :authors
    end
  end
  # good
  class AddFkArticlesToAuthors < ActiveRecord::Migration</pre>
    def change
      add_foreign_key :articles, :authors, name: :articles_author_id_fk
    end
  end
• Don't use non-reversible migration commands in the change method. Re-
  versible migration commands are listed below. ActiveRecord::Migration::CommandRecorder
  [link]
  # bad
  class DropUsers < ActiveRecord::Migration</pre>
    def change
      drop_table :users
    end
  end
  class DropUsers < ActiveRecord::Migration</pre>
    def up
      drop_table :users
    def down
      create_table :users do |t|
        t.string :name
      end
    end
  end
  # good
  # In this case, block will be used by create_table in rollback
  # http://api.rubyonrails.org/classes/ActiveRecord/ConnectionAdapters.html#method-i-drop
  class DropUsers < ActiveRecord::Migration</pre>
    def change
      drop_table :users do |t|
```

```
t.string :name
  end
  end
end
```

#### Views

- Never call the model layer directly from a view. [link]
- Never make complex formatting in the views, export the formatting to a method in the view helper or the model. [link]
- Mitigate code duplication by using partial templates and layouts. [link]

#### Internationalization

- No strings or other locale specific settings should be used in the views, models and controllers. These texts should be moved to the locale files in the config/locales directory. [link]
- When the labels of an ActiveRecord model need to be translated, use the activerecord scope: [link]

```
en:
   activerecord:
   models:
     user: Member
   attributes:
     user:
     name: 'Full name'
```

Then User.model\_name.human will return "Member" and User.human\_attribute\_name("name") will return "Full name". These translations of the attributes will be used as labels in the views.

- Separate the texts used in the views from translations of ActiveRecord attributes. Place the locale files for the models in a folder locales/models and the texts used in the views in folder locales/views. [link]
  - When organization of the locale files is done with additional directories, these directories must be described in the application.rb file in order to be loaded.

```
# config/application.rb
config.i18n.load_path += Dir[Rails.root.join('config', 'locales', '**', '*.{rb,yml}]
```

• Place the shared localization options, such as date or currency formats, in files under the root of the locales directory. [link]

- Use the short form of the I18n methods: I18n.t instead of I18n.translate and I18n.l instead of I18n.localize. [link]
- Use "lazy" lookup for the texts used in views. Let's say we have the following structure: [link]

```
en:
    users:
    show:
    title: 'User details page'
```

The value for users.show.title can be looked up in the template app/views/users/show.html.haml like this:

```
= t '.title'
```

• Use the dot-separated keys in the controllers and models instead of specifying the :scope option. The dot-separated call is easier to read and trace the hierarchy. [link]

```
# bad
I18n.t :record_invalid, scope: [:activerecord, :errors, :messages]
# good
I18n.t 'activerecord.errors.messages.record_invalid'
```

 More detailed information about the Rails I18n can be found in the Rails Guides [link]

#### Assets

Use the assets pipeline to leverage organization within your application.

- Reserve app/assets for custom stylesheets, javascripts, or images. [link]
- Use lib/assets for your own libraries that don't really fit into the scope of the application. [link]
- Third party code such as jQuery or bootstrap should be placed in vendor/assets. [link]
- When possible, use gemified versions of assets (e.g. jquery-rails, jquery-ui-rails, bootstrap-sass, zurb-foundation). [link]

#### Mailers

 Name the mailers SomethingMailer. Without the Mailer suffix it isn't immediately apparent what's a mailer and which views are related to the mailer. [link]

- Provide both HTML and plain-text view templates. [link]
- Enable errors raised on failed mail delivery in your development environment. The errors are disabled by default. [link]

```
# config/environments/development.rb
  config.action_mailer.raise_delivery_errors = true
• Use a local SMTP server like Mailcatcher in the development environment.
  [link]
  # config/environments/development.rb
  config.action_mailer.smtp_settings = {
    address: 'localhost',
    port: 1025,
    # more settings
• Provide default settings for the host name. [link]
  # config/environments/development.rb
  config.action_mailer.default_url_options = { host: "#{local_ip}:3000" }
  # config/environments/production.rb
  config.action_mailer.default_url_options = { host: 'your_site.com' }
  # in your mailer class
  default_url_options[:host] = 'your_site.com'
• If you need to use a link to your site in an email, always use the _url, not
  _path methods. The _url methods include the host name and the _path
  methods don't. [link]
  # bad
  You can always find more info about this course
  <%= link_to 'here', course_path(@course) %>
  # good
  You can always find more info about this course
  <%= link_to 'here', course_url(@course) %>
• Format the from and to addresses properly. Use the following format:
  # in your mailer class
  default from: 'Your Name <info@your site.com>'
```

• Make sure that the e-mail delivery method for your test environment is set to test: [link]

```
# config/environments/test.rb
```

```
config.action_mailer.delivery_method = :test
```

• The delivery method for development and production should be smtp: [link]

```
# config/environments/development.rb, config/environments/production.rb
config.action mailer.delivery method = :smtp
```

- When sending html emails all styles should be inline, as some mail clients have problems with external styles. This however makes them harder to maintain and leads to code duplication. There are two similar gems that transform the styles and put them in the corresponding html tags: premailer-rails and roadie. [link]
- Sending emails while generating page response should be avoided. It causes delays in loading of the page and request can timeout if multiple email are sent. To overcome this emails can be sent in background process with the help of sidekiq gem. [link]

#### **Active Support Core Extensions**

• Prefer Ruby 2.3's safe navigation operator &. over ActiveSupport#try!. [link]

```
# bad
obj.try! :fly
# good
obj&.fly
```

• Prefer Ruby's Standard Library methods over ActiveSupport aliases. [link]

```
# bad
'the day'.starts_with? 'th'
'the day'.ends_with? 'ay'
# good
'the day'.start_with? 'th'
'the day'.end_with? 'ay'
```

 - Prefer Ruby's Standard Library over uncommon Active Support extensions.  $[{\rm link}]$ 

```
# bad
(1..50).to a.forty two
```

```
# qood
(1..50).to_a[41]
[1, 2].include? 1
'the day'.include? 'day'
  • Prefer Ruby's comparison operators over ActiveSupport's Array#inquiry,
     and String#inquiry. [link]
# bad - String#inquiry
ruby = 'two'.inquiry
ruby.two?
# good
ruby = 'two'
ruby == 'two'
# bad - Array#inquiry
pets = %w(cat dog).inquiry
pets.gopher?
# good
pets = %w(cat dog)
pets.include? 'cat'
Time
  • Config your timezone accordingly in application.rb. [link]
     config.time_zone = 'Eastern European Time'
     # optional - note it can be only :utc or :local (default is :utc)
     config.active_record.default_timezone = :local
  • Don't use Time.parse. [link]
     # bad
    Time.parse('2015-03-02 19:05:37') # => Will assume time string given is in the system's
    Time.zone.parse('2015-03-02 19:05:37') # => Mon, 02 Mar 2015 19:05:37 EET +02:00
  • Don't use String#to_time [link]
     # bad - assumes time string given is in the system's time zone.
     '2015-03-02 19:05:37'.to_time
```

1.in? [1, 2]

'day'.in? 'the day'

```
# good
Time.zone.parse('2015-03-02 19:05:37') # => Mon, 02 Mar 2015 19:05:37 EET +02:00
• Don't use Time.now. [link]
# bad
Time.now # => Returns system time and ignores your configured time zone.
# good
Time.zone.now # => Fri, 12 Mar 2014 22:04:47 EET +02:00
Time.current # Same thing but shorter.
```

#### Bundler

- Put gems used only for development or testing in the appropriate group in the Gemfile. [link]
- Use only established gems in your projects. If you're contemplating on including some little-known gem you should do a careful review of its source code first. [link]
- OS-specific gems will by default result in a constantly changing Gemfile.lock for projects with multiple developers using different operating systems. Add all OS X specific gems to a darwin group in the Gemfile, and all Linux specific gems to a linux group: [link]

```
# Gemfile
group :darwin do
  gem 'rb-fsevent'
  gem 'growl'
end
group :linux do
  gem 'rb-inotify'
end
```

To require the appropriate gems in the right environment, add the following to config/application.rb:

```
platform = RUBY_PLATFORM.match(/(linux|darwin)/)[0].to_sym
Bundler.require(platform)
```

• Do not remove the Gemfile.lock from version control. This is not some randomly generated file - it makes sure that all of your team members get the same gem versions when they do a bundle install. [link]

#### Managing processes

• If your projects depends on various external processes use foreman to manage them. [link]

## Further Reading

There are a few excellent resources on Rails style, that you should consider if you have time to spare:

- The Rails 4 Way
- Ruby on Rails Guides
- The RSpec Book
- The Cucumber Book
- Everyday Rails Testing with RSpec
- Rails 4 Test Prescriptions
- Better Specs for RSpec

## Contributing

Nothing written in this guide is set in stone. It's my desire to work together with everyone interested in Rails coding style, so that we could ultimately create a resource that will be beneficial to the entire Ruby community.

Feel free to open tickets or send pull requests with improvements. Thanks in advance for your help!

You can also support the project (and RuboCop) with financial contributions via Patreon.

#### How to Contribute?

It's easy, just follow the contribution guidelines.

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# Spread the Word

A community-driven style guide is of little use to a community that doesn't know about its existence. Tweet about the guide, share it with your friends and colleagues. Every comment, suggestion or opinion we get makes the guide just a little bit better. And we want to have the best possible guide, don't we?

Cheers, Bozhidar