# **Ruby on Rails Cheatsheet**

A comprehensive cheat sheet covering essential Ruby on Rails commands, helpers, and best practices for efficient web development.



## **Rails Basics & Setup**

# Project Setup

rails new my\_app - Create a new Rails application named 'my\_app'.

rails server or rails s - Start the Rails server.

Access it via http://localhost:3000.

rails console or rails c - Start the Rails console for interacting with the application.

rails db:create - Create the database defined in config/database.yml .

rails db:migrate - Run pending database migrations.

rails db:seed - Load the seed data from db/seeds.rb .

#### Generators

rails generate model ModelName attribute:type attribute2:type2 ... - Generate a model with specified attributes and types. Example: rails generate model Product name:string price:decimal rails generate controller ControllerName action1 action2 ... - Generate a controller with specified actions. Example: rails generate controller Products index show new create edit update destroy rails generate migration AddColumnToTable column: type - Generate a migration to add a column to a table. Example: rails generate migration AddPriceToProducts price:decimal rails generate resource ResourceName attribute:type ... - Generate a model, controller, and routes for a resource. Example: rails generate resource Product

#### **Basic Commands**

rails routes - List all defined routes in the application.
rails test - Run all tests.
rails assets:precompile - Precompile assets for production.

### **Models & Database**

# ActiveRecord Basics

Model.all - Retrieve all records from the table.
Model.find(id) - Find a record by its ID.
[Model.new(attributes)] - Create a new model instance.
model.save - Save the model instance to the database.
<pre>model.update(attributes) - Update the attributes of the model instance.</pre>
model.destroy - Delete the model instance from the database.

### Associations

name:string price:decimal

has_on	A model has one of another model. Example:  has_one :profile
belong s_to	A model belongs to another model. Example: belongs_to :user
has_ma	A model has many of another model. Example: has_many :comments
has_ma ny :throug	A model has many of another model through an association. Example: has_many :appointments, through: :physician

#### **Validations**

validates :attribute, presence: true - Ensures the
attribute is present.

validates :attribute, uniqueness: true - Ensures
the attribute is unique.

validates :attribute, length: { minimum: 5,
maximum: 20 } - Validates the length of the attribute.

validates :attribute, format: { with: /regex/ } Validates the format of the attribute using a regular
expression.

validates :attribute, numericality: true - Ensures
the attribute is a number.

## **Controllers & Views**

#### Controller Actions

index - Display a list of all records.
show - Display a specific record.
new - Display a form to create a new record.
create - Create a new record.
edit - Display a form to edit an existing record.
update - Update an existing record.
destroy - Delete a record.

# Views & Templates

ERB (Embedded Ruby) templates are used to generate HTML views.
<pre>&lt;%= @variable %&gt; - Output the value of a variable.</pre>
<% code %> - Execute Ruby code.
<pre>&lt;%= link_to 'Link Text', path %&gt; - Create a link to a specified path.</pre>
<pre>&lt;%= form_with(model: @model) do  form  %&gt; &lt;% end %&gt; - Create a form for a model.</pre>

# Layouts & Partials

# **Routing & Assets**

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Routes Asset Pipeline Helpers

get 'path', to: 'controller#action' - Define a GET route.

post 'path', to: 'controller#action' - Define a POST route.

resource :resource\_name - Define RESTful routes for a resource.

resources :resource\_name - Define multiple RESTful routes for a resource.

root 'controller#action' - Define the root route.

The asset pipeline manages CSS, JavaScript, and image assets.

Assets are located in the app/assets directory.

Use Sprockets directives (e.g., require, require\_tree) to manage asset dependencies.

- Generate the path to an asset.

number\_to\_currency(number) - Formats a number as
currency.

date.strftime('%m/%d/%Y') - Format a date.

time\_ago\_in\_words(time) - Show how long ago a time
was.

pluralize(count, 'item') - Pluralize a word based on
the count.

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