CHEAT HERO

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

application named 'my_app'.

rails new my_app - Create a new Rails

Access it via (http://localhost:3000).

rails server or rails s - Start the Rails

rails console or rails c - Start the Rails

console for interacting with the application.

rails db:create - Create the database

rails db:migrate - Run pending database

rails db:seed - Load the seed data from

defined in config/database.yml).

Project Setup

server.

migrations.

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 name:string price:decimal

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.
(model.update(attributes)) - Update the attributes of the model instance.
model.destroy - Delete the model instance from the database.

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.

Associations

has_o	A model has one of another model.
ne	Example: has_one :profile
belon	A model belongs to another model.
gs_to	Example: _belongs_to :user
has_m	A model has many of another model.
any	Example: has_many :comments
has_m	A model has many of another model
any	through an association. Example:
:throu	has_many :appointments, through:
gh	:physician

Validations

Basic Commands

rails test - Run all tests.

application.

for production.

rails routes - List all defined routes in the

rails assets:precompile - Precompile assets

validates :attribute, presence: true -
Ensures the attribute is present.
<pre>validates :attribute, uniqueness: true) -</pre>
Ensures the attribute is unique.
<pre>validates :attribute, length: { minimum:</pre>
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.

Views & Templates

ERB (Embedded Ruby) templates are used to generate HTML views.

<%= @variable %> - Output the value of a
variable.

<% code %> - Execute Ruby code.

<%= link_to 'Link Text', path %> - Create a
link to a specified path.

<%= form_with(model: @model) do |form| %>
... <% end %> - Create a form for a model.

Layouts & Partials

Layouts provide a consistent look and feel across multiple pages.

Partials are reusable view templates.

<%= render 'partial_name' %> - Render a
partial.

Use (yield) in layouts to insert content from views.

Routing & Assets

Routes

get 'path', to: 'controller#action' - Define a GET route.
<pre>post 'path', to: 'controller#action' - Define a POST route.</pre>
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.

Asset Pipeline

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.

<%= asset_path('image.png') %> - Generate
the path to an asset.

Helpers

(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.