Ruby on Rails

Ruby web framework

CONCEPTS

Inside an app use bin/rails: it runs the version pinned in the Gemfile, not a global one.

generate files + migration
↓ edit
migration db/migrate
↓ db:migrate
schema db/schema.rb
↓ routes + test
server localhost:3000

Short aliases: s server, c console, g generate, d destroy, db dbconsole, t test.

Commit db/schema.rb with your migrations; teammates load it with db:schema:load or db:prepare.

CREATE & RUN

rails new *<app>*
Create a new app

rails new *<app>* **--database=postgresql**
New app using PostgreSQL

bin/rails server
Start the server (Puma)

bin/rails server -p *<port>*
Use another port

bin/rails about
Rails, Ruby and DB versions

GENERATORS

bin/rails generate
List available generators

bin/rails generate scaffold *<Name> <field:type>*
Model, controller, views, routes

bin/rails generate model *<Name> <field:type>*
Model and migration

bin/rails generate controller *<Name> <action>*
Controller with views and routes

bin/rails generate resource *<Name> <field:type>*
Model, routes, empty controller

bin/rails generate migration *<Name>*
Empty migration

GENERATORS (cont.)

bin/rails generate *<generator>* **--pretend**
Preview, write nothing

bin/rails generate *<generator>* **--help**
Options of one generator

bin/rails destroy *<generator> <args>*
Remove what generate made

DATABASE

bin/rails db:migrate
Run pending migrations

bin/rails db:rollback
Undo the last migration

bin/rails db:migrate:status
Show each migration up or down

bin/rails db:create
Create the database

bin/rails db:seed
Load db/seeds.rb

bin/rails db:setup
Create, load schema, seed

bin/rails db:reset
Drop, recreate and seed

bin/rails db:prepare
Set up, or migrate if it exists

bin/rails db:drop
Delete the database

bin/rails db:migrate:redo
Roll back one and re-run

bin/rails db:schema:load
Load schema without migrations

bin/rails dbconsole
Open psql, mysql or sqlite3

Rebuild the database

Task	Drops	Loads	Seeds
db:setup	no	schema	yes
db:reset	yes	schema	yes
db:prepare	no	if new	if new

CONSOLE & RUNNER

bin/rails console
Interactive shell with the app loaded

bin/rails console --sandbox
Roll back all changes on exit

bin/rails console -e *<env>*
Console in another environment

CONSOLE & RUNNER (cont.)

bin/rails runner "*<code>***"**
Run Ruby in the app context

bin/rails runner *<file.rb>*
Run a script in the app

INSPECT

bin/rails routes
List all routes

bin/rails routes -g *<pattern>*
Filter by name, path or action

bin/rails routes -c *<controller>*
Routes of one controller

bin/rails stats
Lines of code and test ratio

bin/rails notes
Find TODO, FIXME, OPTIMIZE

TEST

bin/rails test
Run tests, not system tests

bin/rails test *<file>*:*<line>*
Run the test at a line

bin/rails test *<file1> <file2>*
Run several files or dirs

bin/rails test -n /*<regex>***/**
Tests matching a name

bin/rails test:system
Run system tests

HOUSEKEEPING

bin/rails credentials:edit
Edit encrypted credentials

bin/rails tmp:clear
Clear cache, sockets, screenshots

bin/rails assets:precompile
Compile assets for production

RECIPES

New app with a CRUD resource

```
rails new blog --
database=postgresql
cd blog
bin/rails db:create
bin/rails g scaffold Post
title:string body:text
bin/rails db:migrate
bin/rails server
```