# 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
```