

Ch 1 Notes - hello_app

My tutorial notes... be brief, H3 for each section, bold terms etc, code is italics

It's all new. (sort of) Rails 5. The book is Ruby on Rails Tutorial: www.railstutorial.org/
Ch 1 builds a Rails application called **hello_app**.

scaffolding - generated code in Rails = magic, generate scaffold

1.1 Introduction

Rails - 2004 intro by David Heinemeier Hansson, 100% open source, small core team

gem - self-contained solutions to specific problems, like a package in Java

Author's Learn Enough to be Dangerous tutorials aren't ready: HTML, CSS, Javascript

Great list of advanced resources to learn more about Rails, mostly for pay

1.2 Up and running

Installing Rails is a pain. Not on cloud9!

Install Rails on c9: *gem install rails -v 5.0.0.1*

Note: -v is version. Versions always assumed to be there. Like CDN's. The paradigm now is: Nothing deleted, ever.

Interesting: This Harvard class has their own Cloud9 template: <https://cs50.harvard.edu/>

1.3 The first application

Unix command line: cd, ls, mv, cp, rm, cat, mkdir, rmdir

Create the app: *rails _5.0.0.1_ new hello_app*

Issue: Does *rails new* create a folder or do I need to. Google google. It creates a folder.

Speaking of, standard folder structure for all Rails apps. Convention over Configuration.

All folders described in Table 1.2: app/, config/, test/, etc

Bundler - install and include gems needed by an app

Gemfile - lists all gems used in the app

Running the app on c9: *rails server -b \$IP -p \$PORT*

Then, click on Share/Application to get new tab with app in it.

Model-View Controller (MVC) - standard Rails structure, Figure 1.11

Rails router is in file *config/routes.rb*

Bug: My Hello, World didn't work first time because (I think) I just deleted the browser tab previously. Use ^C in my shell to avoid this.

1.4 Version control with Git

His git tutorial is there: <https://www.learnenough.com/git-tutorial>

Git commands:

- *git config...* // global vars
- *git init* // once to start
- *git add -A* // add all files in current folder
- *git status* // show files
- *git commit -m "message"* // commit changes, so we keep them
- *git log* // show commit messages
- *git checkout -b branch-name-here* // create new branch
- *git branch* // show branches
- *git push* // push changes to origin repo

This is key: "It is important to note that Git commits are local, recorded only on the machine on which the commits occur. We'll see how to push the changes up to a remote repository (using git push)"

Bitbucket - holds Git repos, Github too

On c9, get public key with this command: *cat ~/.ssh/id_rsa.pub*

Bug: Use "Bitbucket settings", not "Manage account"

1.5 Deploy

Heroku - Rails hosting platform

Note: my Gemfile was already ready for Heroku

Deploy to Heroku:

- *heroku create* // one time command
- *git push heroku master* // push master branch up to heroku
- *heroku rename unique-app-name* // name must be unique over all heroku

Here's my rename: <https://helloapp694.herokuapp.com/>

1.6 Conclusion

What we learned:

- Rails framework, Cloud9 IDE, git version control, Bitbucket repo, Heroku deploy

thanks... yow, bill