iamtalented

Introduction to Ruby on Rails

The Future

Credit: https://www.youtube.com/watch?v=nKIu9yen5nc

Web App?

Internet?

Analogy: https://speakerdeck.com/therod/programming-101

A Restaurant!

Analogy: https://speakerdeck.com/therod/programming-101

In a Restaurant

You tell the WAITER what you would like
to eat (a DISH) by pointing on the MENU.

The WAITER delivers your request to the CHEF.

The CHEF prepares your DISH,
and sends it back through the WAITER again.

Analogy: https://speakerdeck.com/therod/programming-101

Online

You tell the INTERNET what you would like
to see (a PAGE) by pointing in the BROWSER.

The INTERNET delivers your request to the SERVER.

The SERVER prepares your PAGE,
and sends it back through the INTERNET again.

Analogy: https://speakerdeck.com/therod/programming-101

Internet?

Analogy: https://speakerdeck.com/therod/programming-101

Web Apps act like... Chefs

- Take requests
- Do something with the requests
- Send the results back

Analogy: https://speakerdeck.com/therod/programming-101

Create a Web App

Ruby on Rails

http://rubyonrails.org

David Heinemeier Hansson (DHH)

~ Partner of Basecamp (formerly 37Signals)

~ also a race car driver

Photo: http://etalks.me/wp-content/uploads/2014/03/David-Heinemeier-Hansson.jpg

Ruby on Rails Powered

- Twitter
- Groupon
- Airbnb
- Shopify
- Hulu
- Viki
- Bloomberg
- Slideshare
- Basecamp
- Zendesk
- Friendster
- Wego

http://www.nitrous.io

Nitrous

Winston

https://www.nitrous.io/app#/boxes/new

NITROUS

120 / 310 | Invites | Boxes | Public Keys | Home | Help | winston

New Box

Pick a template

Ruby/Rails | Node.js | Python/Django | Go | PHP | Meteor

Name: gray-wheels-87

Region: Southeast Asia

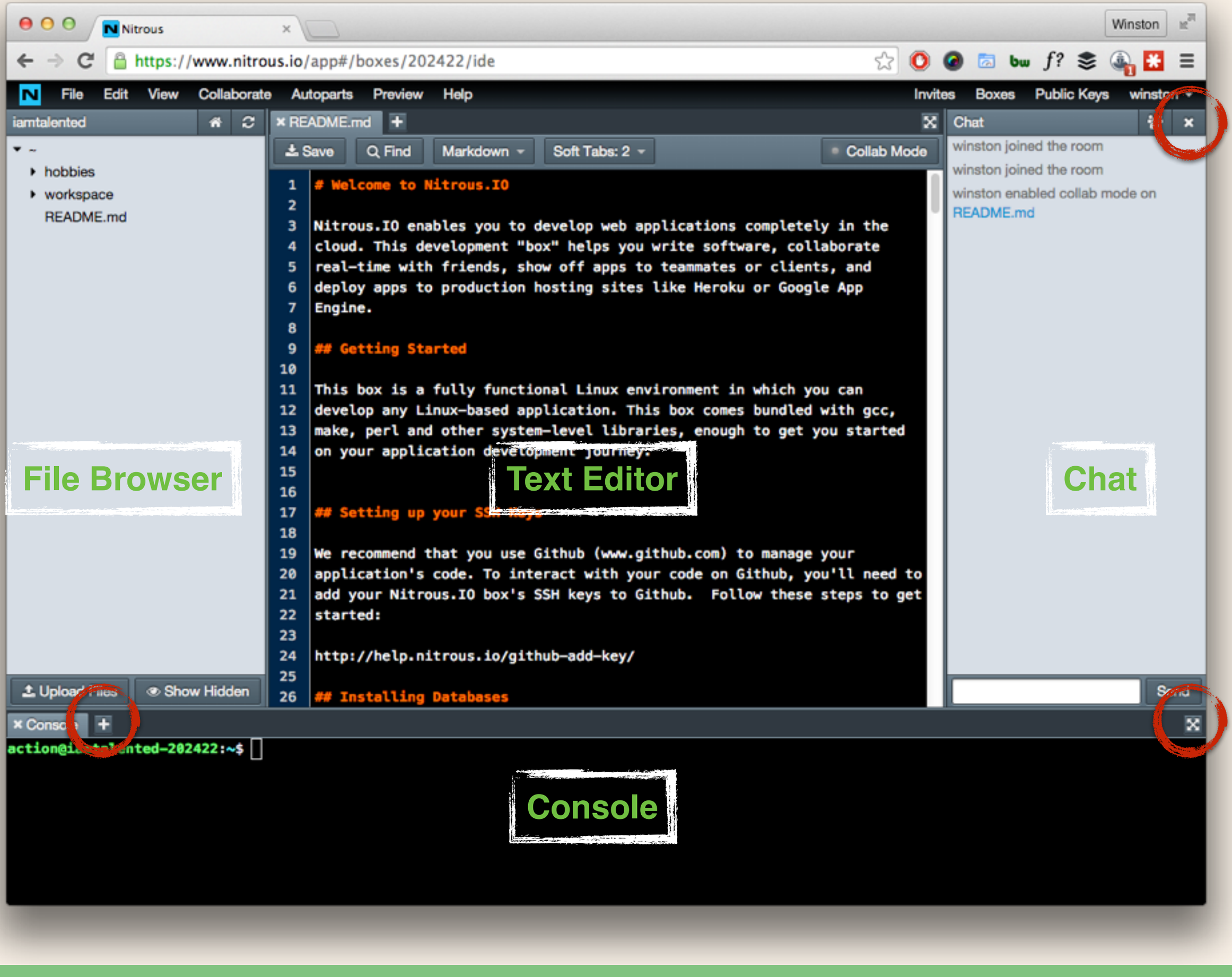
Memory: 512 MB — 160

Storage: 1500 MB — 30

Remaining N2O: -70 — 190

Download a Github repo: Optional, e.g. https://github.com/rails/rails

Create Box | Cancel | You do not have enough N2O to create this box. Get More


Nitrous
Winston
https://www.nitrous.io/app#/boxes/202422/ide
File Edit View Collaborate Autoparts Preview Help
Invites Boxes Public Keys winston
iamtalented
~
hobbies
workspace
README.md
README.md
Save
Find
Markdown
Soft Tabs: 2
Collab Mode
Welcome to Nitrous.IO
Nitrous.IO enables you to develop web applications completely in the cloud. This development "box" helps you write software, collaborate real-time with friends, show off apps to teammates or clients, and deploy apps to production hosting sites like Heroku or Google App Engine.
Getting Started
This box is a fully functional Linux environment in which you can develop any Linux-based application. This box comes bundled with gcc, make, perl and other system-level libraries, enough to get you started on your application development journey.
Setting up your SSH keys
We recommend that you use Github (www.github.com) to manage your application's code. To interact with your code on Github, you'll need to add your Nitrous.IO box's SSH keys to Github. Follow these steps to get started:
http://help.nitrous.io/github-add-key/
Installing Databases
Chat
winston joined the room
winston joined the room
winston enabled collab mode on README.md
Upload Files
Show Hidden
Send
File Browser
Text Editor
Chat
Console

Console Commands

irb

```
>> pwd

>> ls -la

>> ruby -v

>> rails -v
```

Create a Rails app

irb

```
>> cd workspace

>> rails new hobbies

>> cd hobbies

>> ls -la
```

Start a Rails app

irb

```
>> rails server
==> Booting WEBrick
...
...
...
>> <ctrl+c>
```

Nitrous

Winston

https://www.nitrous.io/app#/boxes/202422/ide

File Edit View Collaborate Autoparts Preview Help Invites Boxes Public Keys winston

Port 3000
Port 4000
Port 8888
Set Password...
Preview Help

iamtalented

~
hobbies
workspace
README.md

README.md

Save Soft Tabs: 2 Collab Mode

```
1  # Welc
2
3  Nitrou                    evelop web applications completely in the
4  cloud.                    ox" helps you write software, collaborate
5  real-t                    w off apps to teammates or clients, and
6  deploy                    osting sites like Heroku or Google App
7  Engine
8
9  ## Getting Started
10
11 This box is a fully functional Linux environment in which you can
12 develop any Linux-based application. This box comes bundled with gcc,
13 make, perl and other system-level libraries, enough to get you started
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24 http://help.nitrous.io/github-add-key/
25
26 ## Installing Databases
```

Upload Files Show Hidden

Chat

winston joined the room
winston joined the room
winston enabled collab mode on README.md

Send

Console

```
action@iamtalented-202422:~$
```

iamtalented-202422.apse1.nitrousbox.com

Nitrous | Ruby on Rails: Welcome ab | Winston

iamtalented-202422.apse1.nitrousbox.com

Welcome aboard

You're riding Ruby on Rails!

About your application's environment

Getting started

Here's how to get rolling:

1. Use `rails generate` to create your models and controllers

   To see all available options, run it without parameters.

2. Set up a root route to replace this page

   You're seeing this page because you're running in development mode and you haven't set a root route yet.

   Routes are set up in *config/routes.rb*.

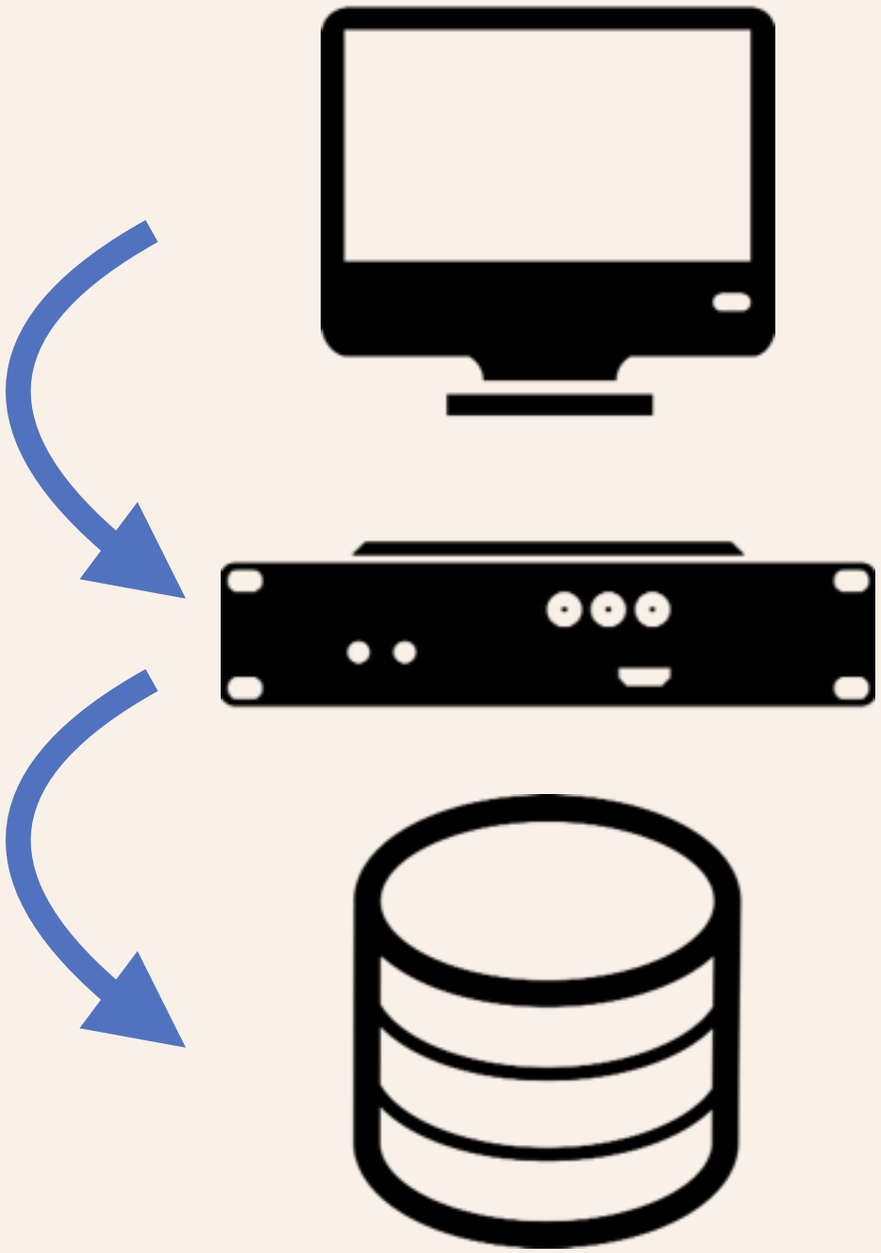
3. Configure your database

   If you're not using SQLite (the default), edit *config/database.yml* with your username and password.

Browse the documentation

Rails Guides
Rails API
Ruby core
Ruby standard library

Model-View-Controller



HTML / CSS / JavaScript

Logic

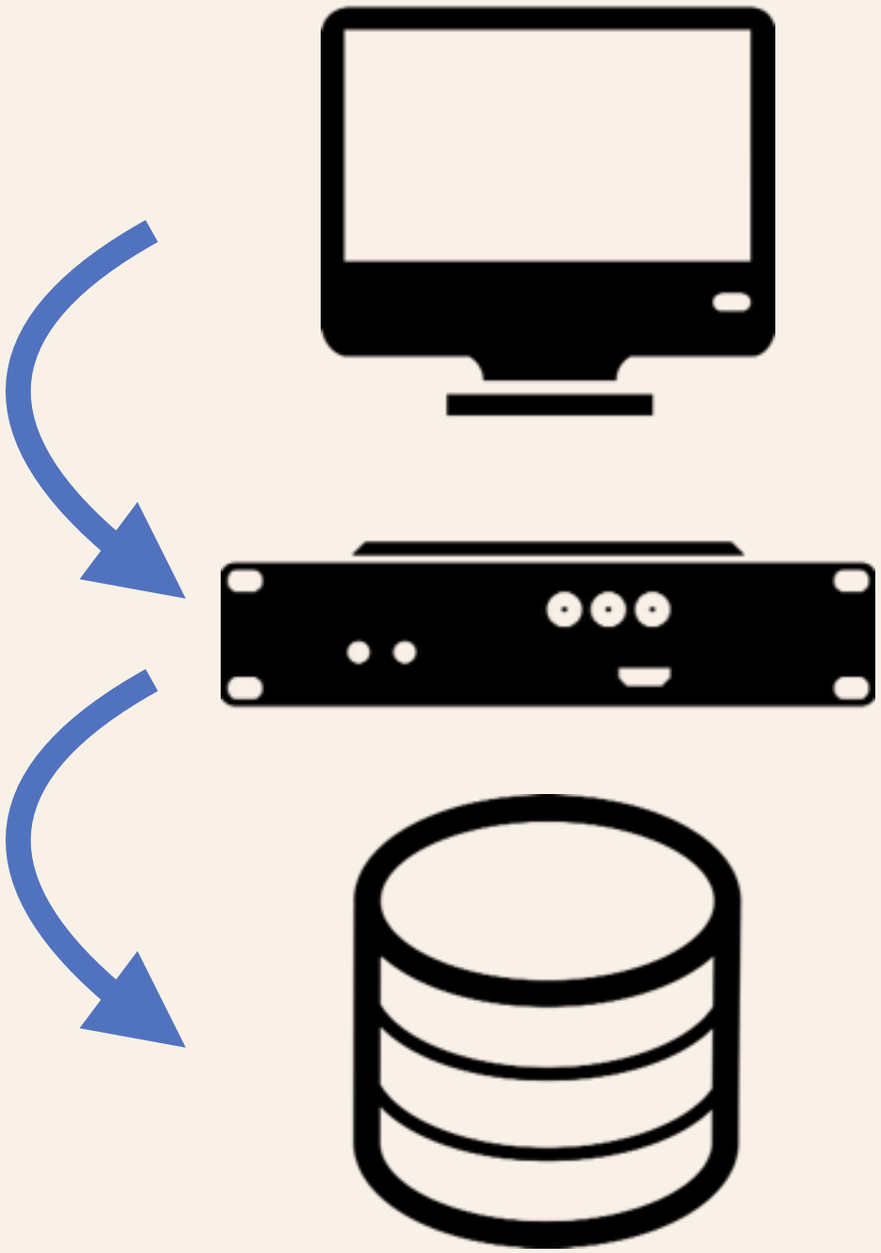
Ruby / PHP / Python etc

Database

PostgreSQL, MySQL, Oracle etc

Icons: http://www.thenounproject.com/anton.outkine

Model-View-Controller



View

HTML / CSS / JavaScript

Controller

Logic

Ruby / PHP / Python etc

Model

Database

PostgreSQL, MySQL, Oracle etc

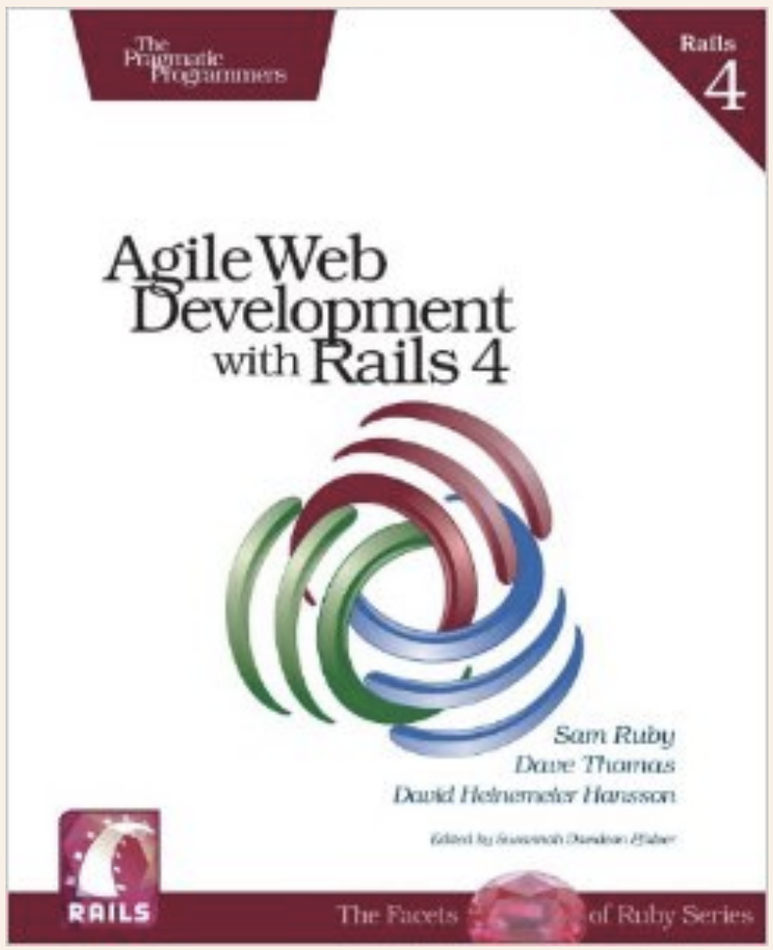
Icons: http://www.thenounproject.com/anton.outkine

> rails generate controller welcome index

app/views/hobbies/index.html.erb

- h1
- hobbies + hours spent
- total hours spent
- time right now + format time

The Book



http://pragprog.com/book/rails4/agile-web-development-with-rails-4

I think everyone should learn how to program a computer, because it teaches you how to think.

I view computer science as a liberal art, something everyone should learn to do.

– *Steve Jobs*

Congratulations!