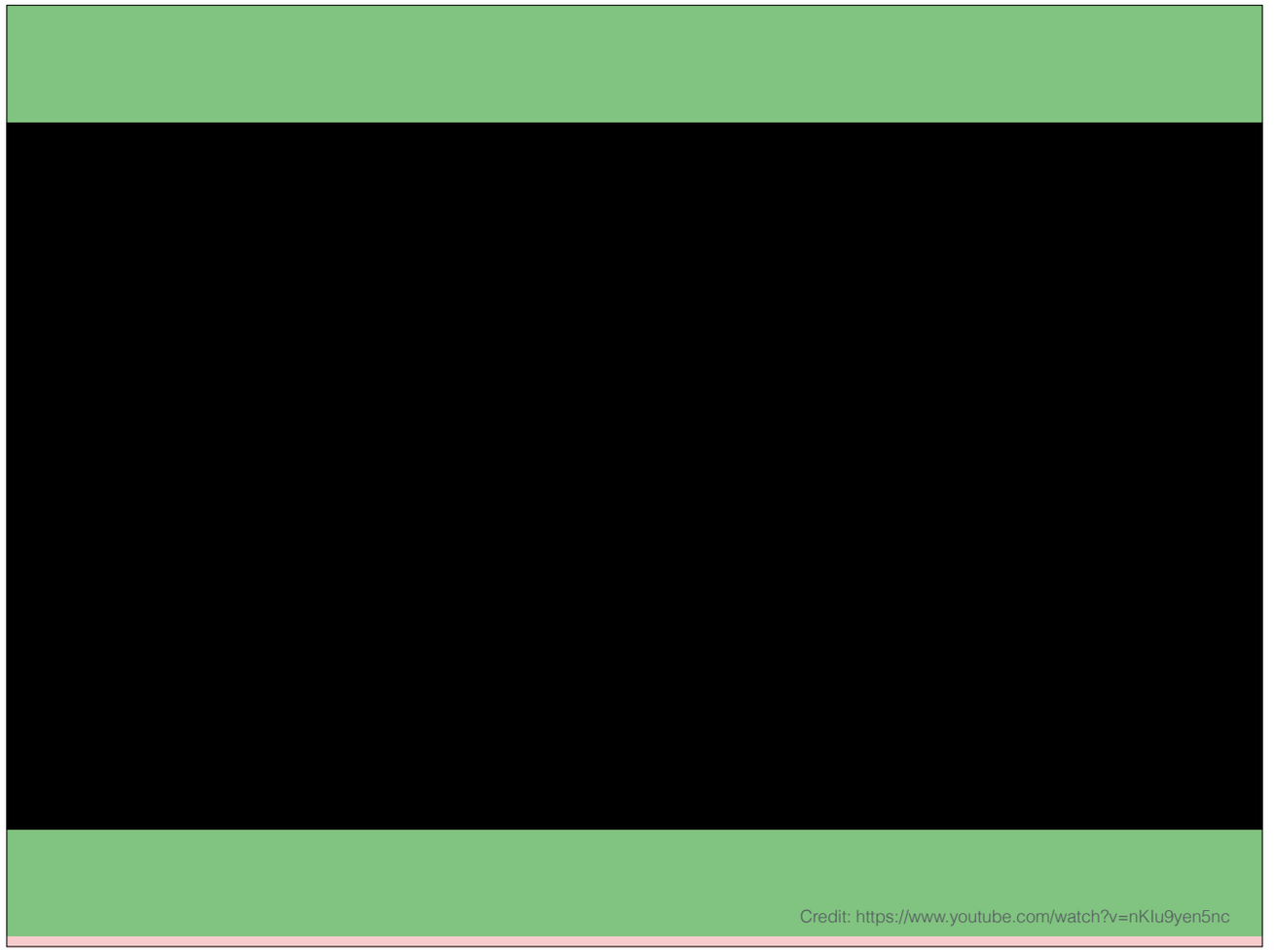
iamtalented
Introduction to Ruby on Rails

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

What's a Web App again?
Web Apps are programs that lives on the server
that responds to your requests.
They can listen to specific instructions.

Just like a Chef!
For example, you can go to the hawker centre and order
Kopi O Siew Dai or Char Kway Teow Mai Hum
You can also tell i.e. Facebook, to decline your Mom's Friend Request!

Create a Web App

Ruby on Rails

http://rubyonrails.org

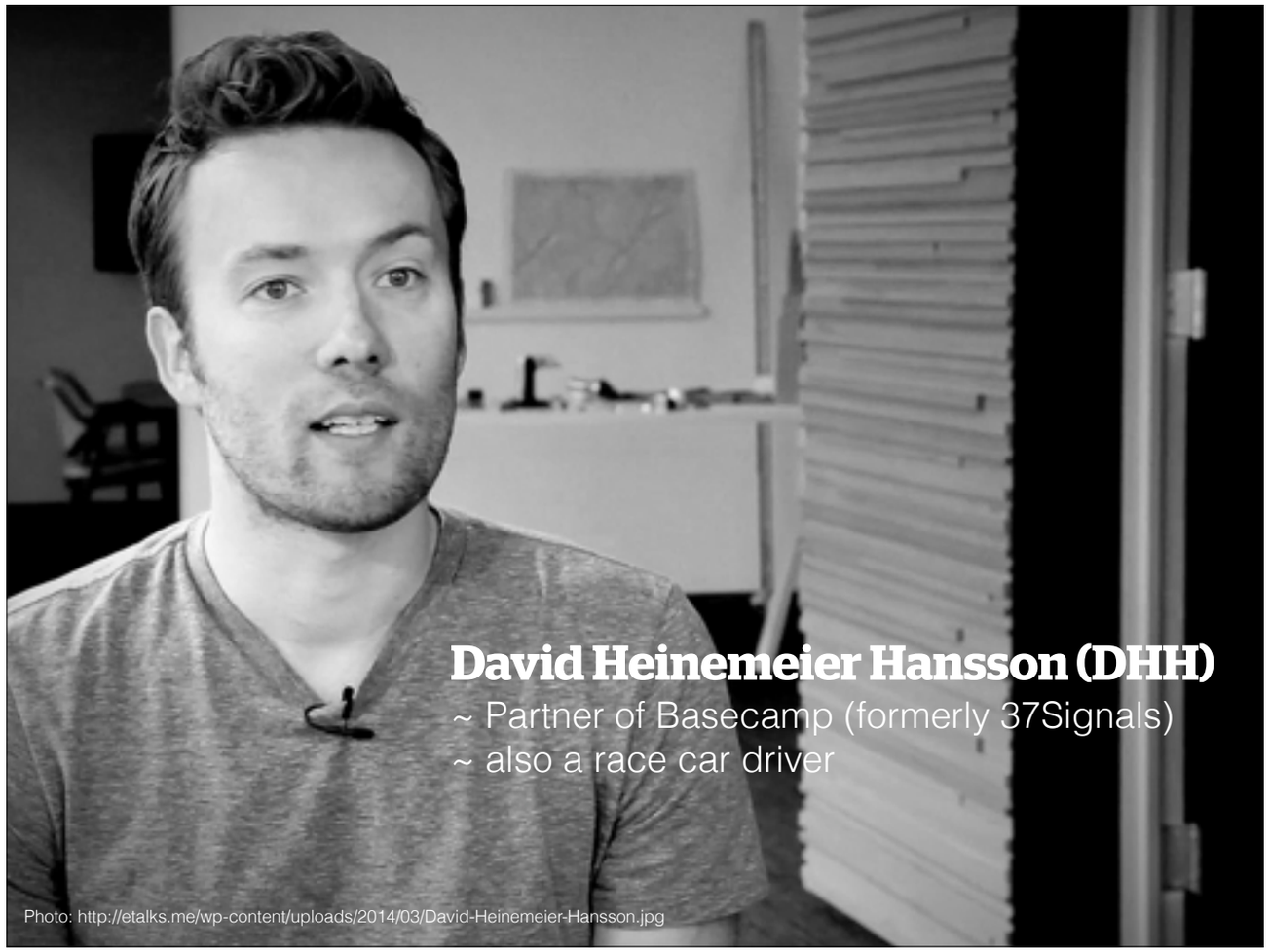
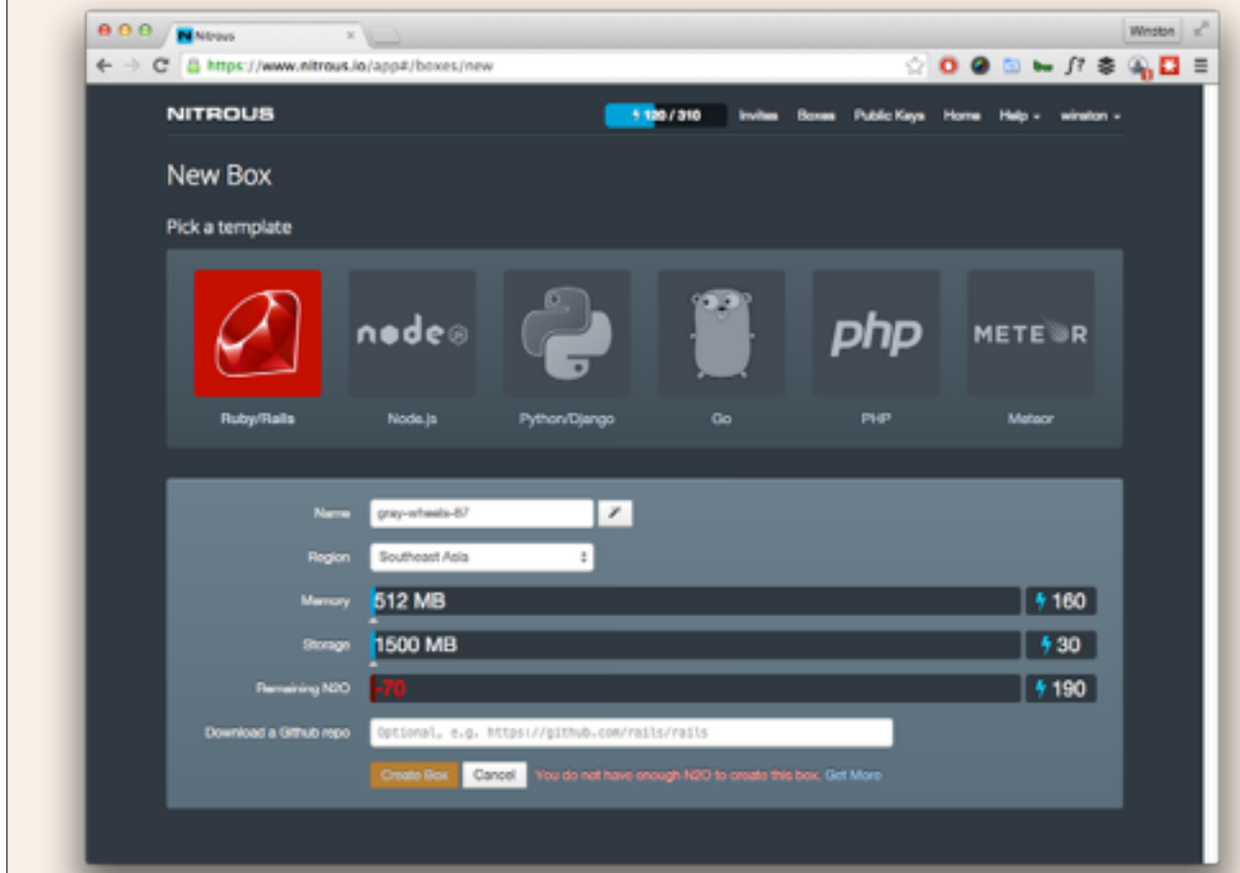


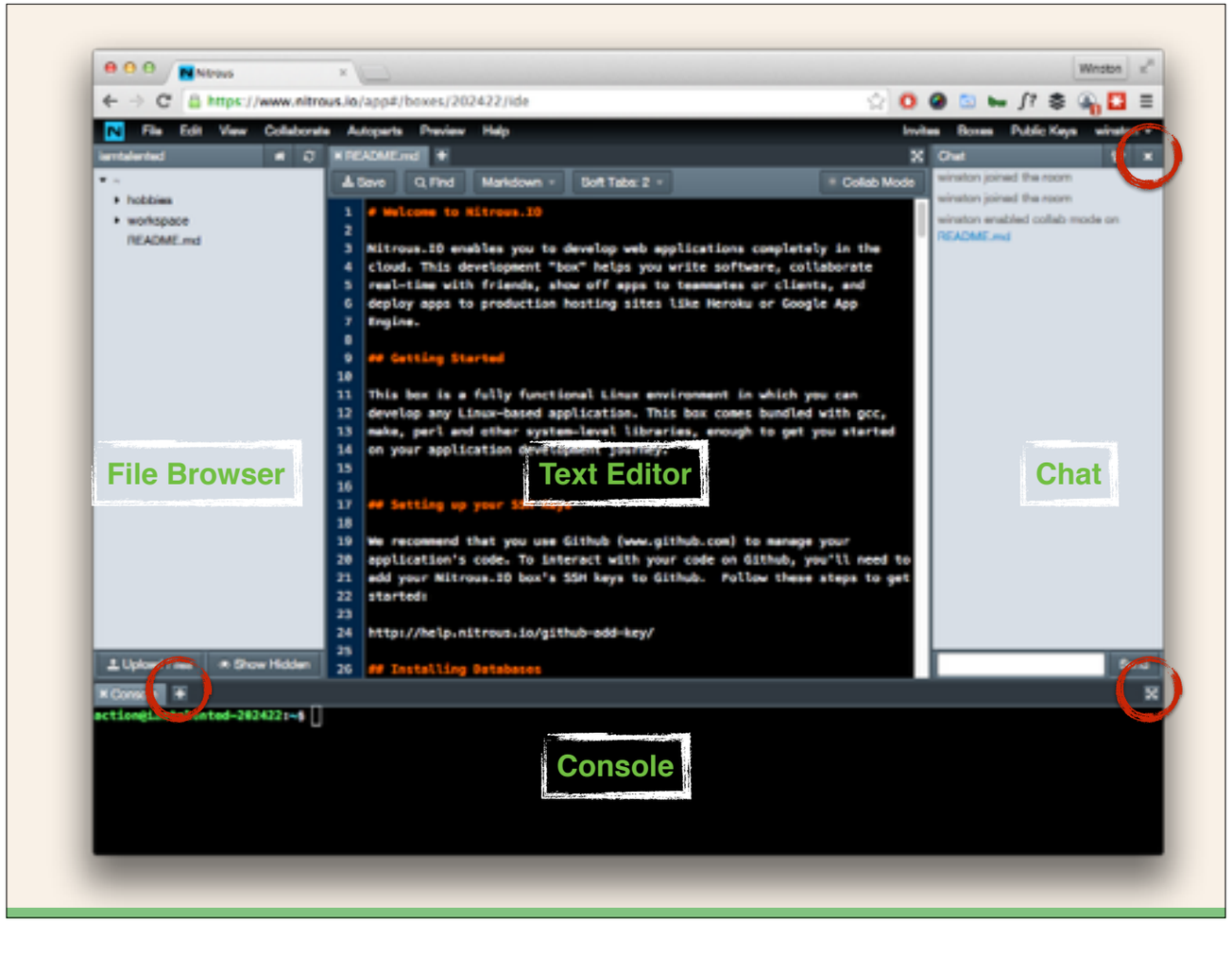
Photo: http://etalks.me/wp-content/uploads/2014/03/David-Heinemeier-Hansson.jpg

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


File Browser
Text Editor
Chat
Console

Console Commands

irb

```
>> pwd

>> ls -la

>> ruby -v

>> rails -v
```

Create a Rails app

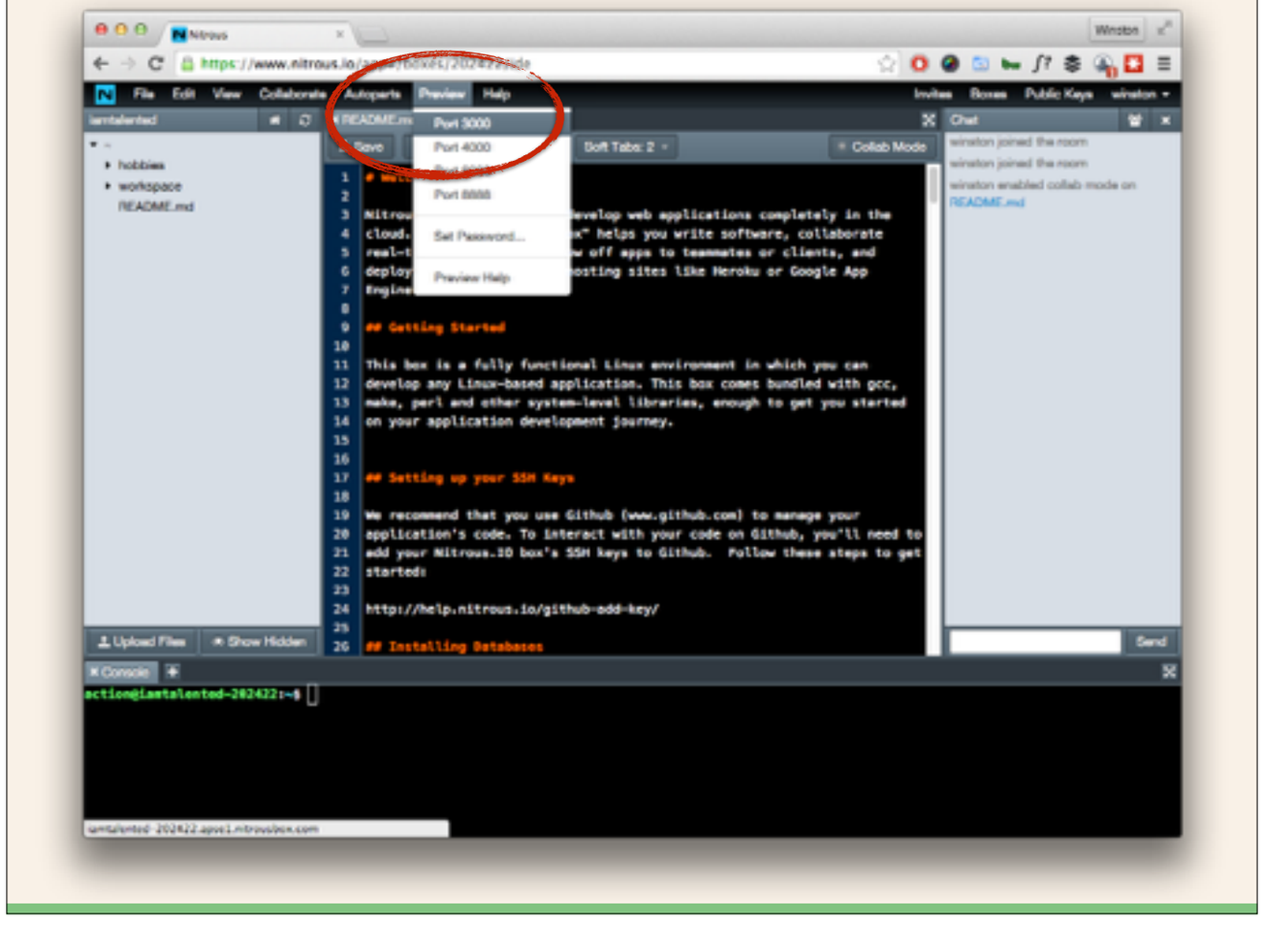
irb

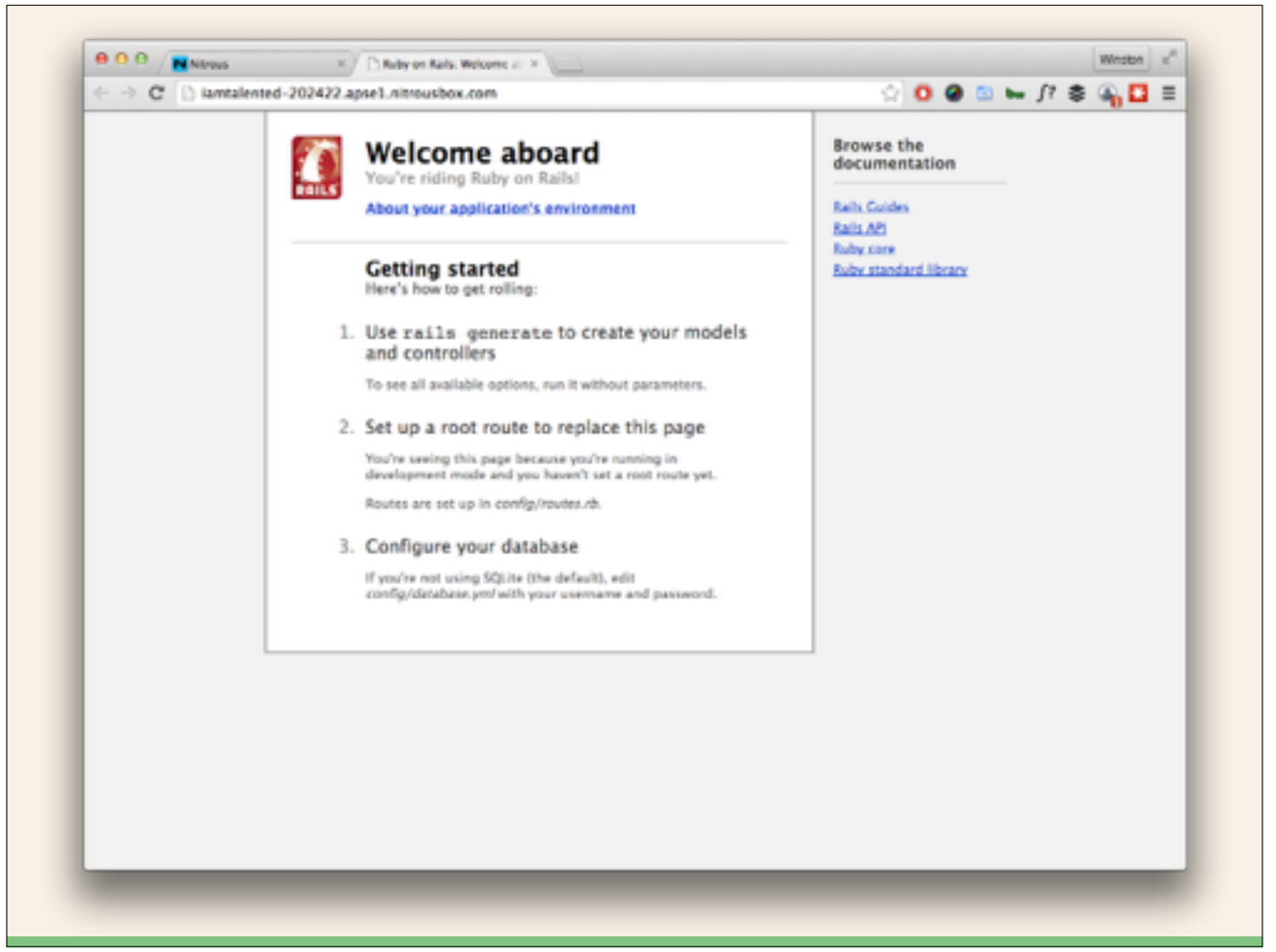
```
>> cd workspace

>> rails new hobbies

>> cd hobbies

>> ls -la
```

Start a Rails app

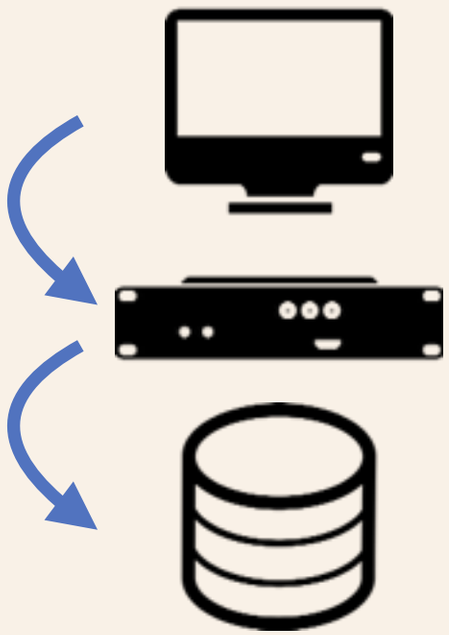
irb

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


Nitrous
Winston
File Edit View Collaborate Autoparts Preview Help
Invites Boxes Public Keys winston
Port 3000
Port 4000
Port 8888
Set Password...
Preview Help
Save
Soft Tabs: 2
Collab Mode
Chat
winston joined the room
winston joined the room
winston enabled collab mode on
README.md
hobbies
workspace
README.md
Upload Files
Show Hidden
Send
Console
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


Nitrous
Ruby on Rails: Welcome
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

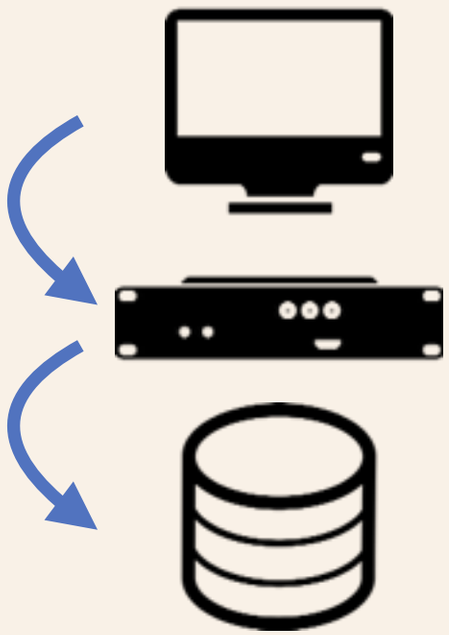
Ruby / PHP / Python etc

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

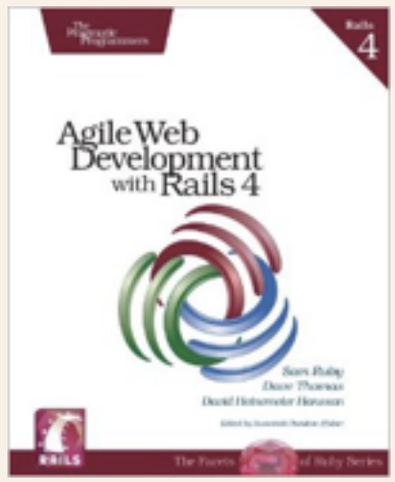
Icons: http://www.thenounproject.com/anton.outkine

> 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!