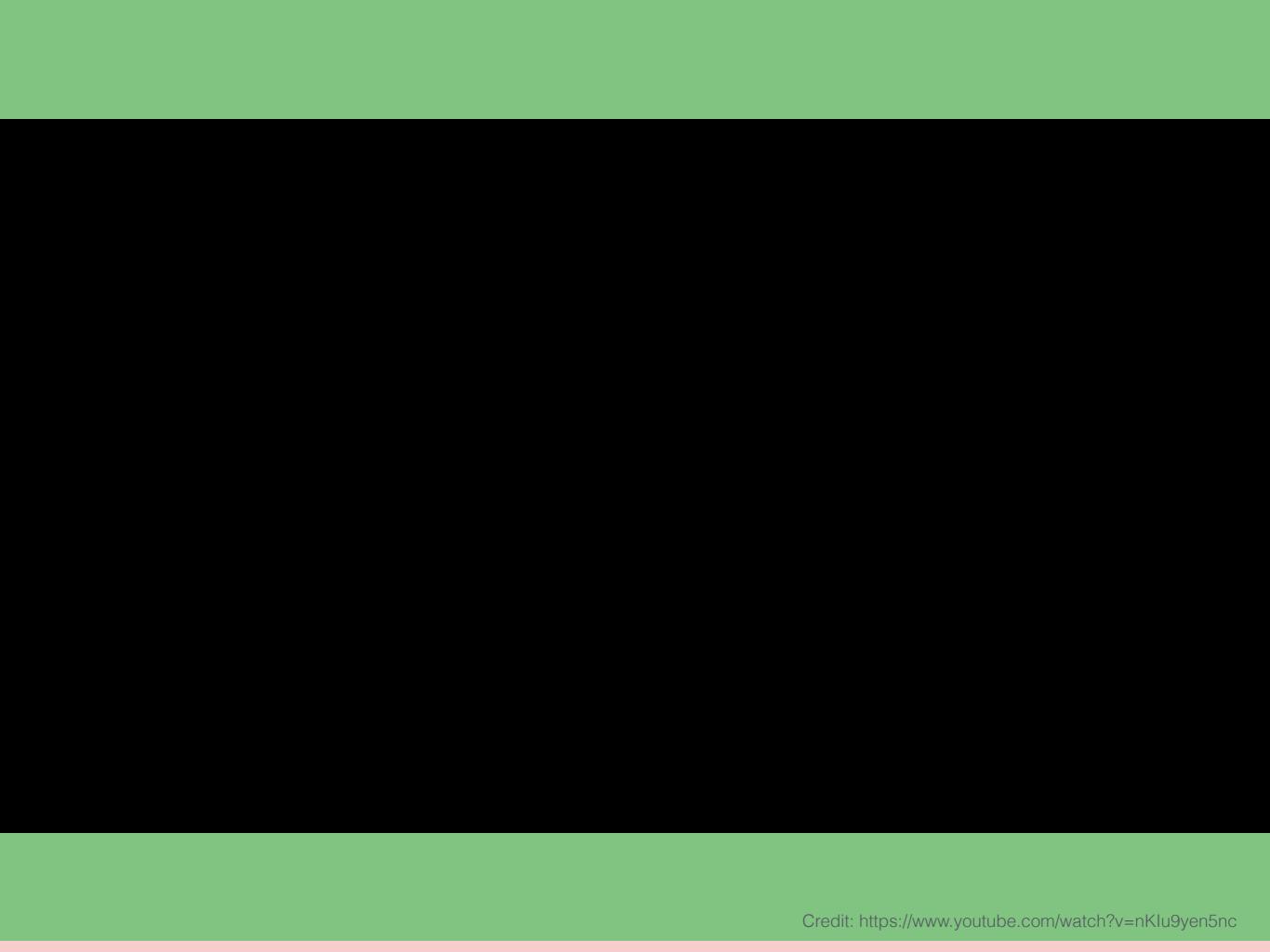
iamtalented Introduction to Ruby on Rails

The Future



Today

What's Happening?

0930 Introductions

1000 Programming with Ruby

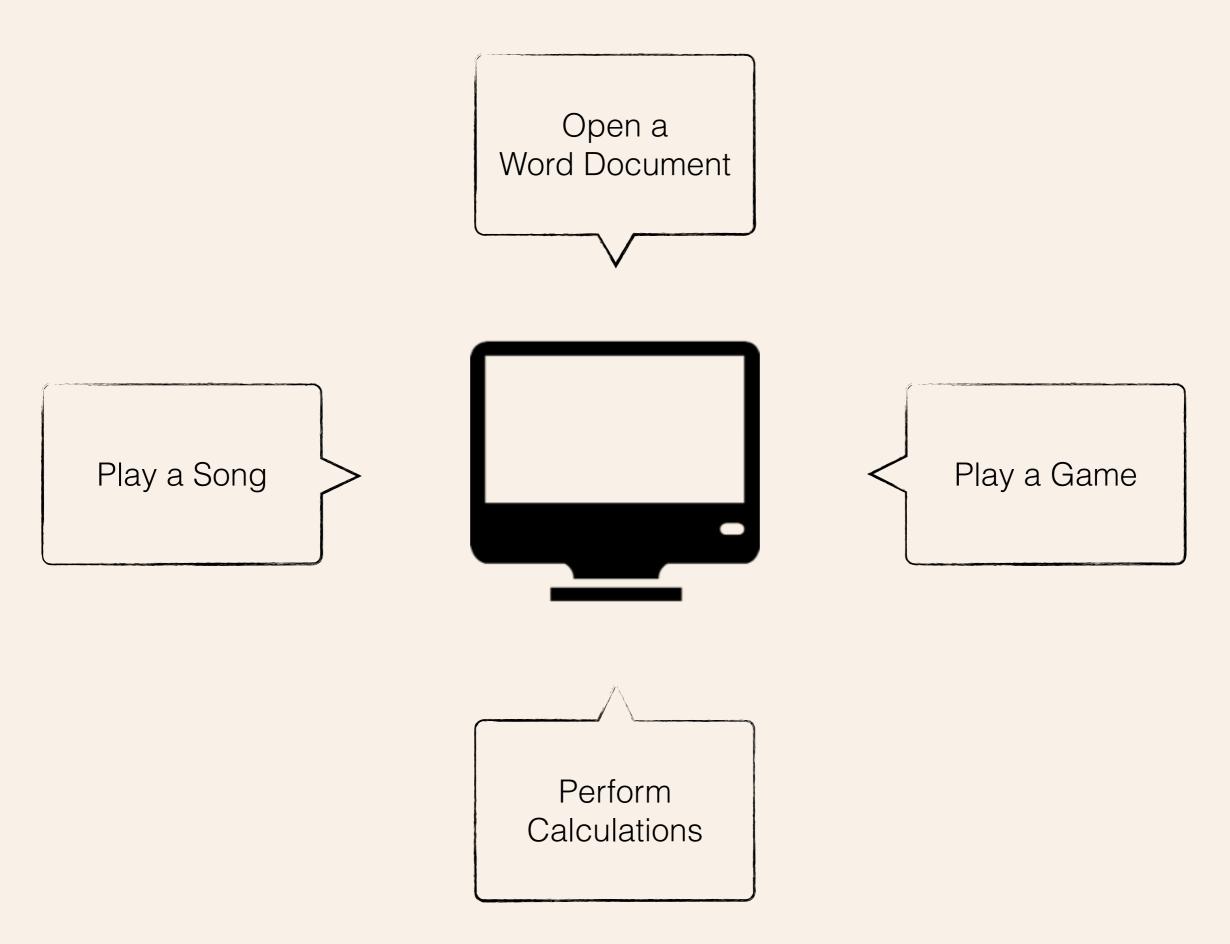
1130 Let's build a Web App

1230 Lunch

1330 Continue with Web App

1600 Closing

What is Programming?



Ruby

- A Computer's Language



I hope to see Ruby help every programmer in the world to be productive, to enjoy programming, and to be happy. That is the primary purpose of Ruby language.

- Yukihiro "Matz" Matsumoto

Let's tryruby.org

tryruby.org

IRB

Data Types

- Numbers
- Strings
- Booleans
- Symbols
- Arrays
- Hashes

```
irb
 \rightarrow 1_00.class
 >> '10'.class
 >> true.class
 >> :i.class
 >> [1,'1',:i, [1,2]]
 >> {a: '1', :b => '2'}
```

Operators

• + : Addition

• - : Subtraction

* : Multiplication

• / : Division

** : Exponentiation

• % : Modulo

irb

String Interpolation

```
irb

>> my_name = 'Winston'
>> "I am #{my_name}"
=> "I am Winston"
```

if

irb

```
if is_true
    # do something
end

>> if 1+1 != 3
>> "that's true"
>> end
=> "that's true"
```

if-else

```
if is_true
    # do something
else
    # do something
end
```

```
irb
```

```
>>> hungry = false
>>> if hungry
>>> "time to eat"
>>> else
>>> "code some more"
>>> end
=> "code some more"
```

while

```
while is_true do
    # do something
    # modify to false
end
```

```
irb
>> counter = 1
>> while counter < 6 do
>> puts counter
>> counter = counter + 1
>> end
3
```

Infinite Loop

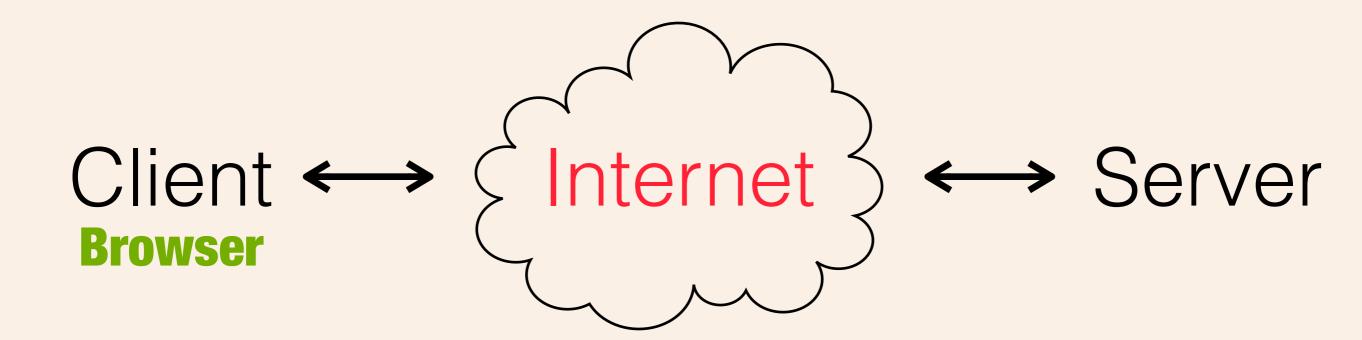
```
while never_ending
  # do something
end
```

```
irb
\rightarrow \rightarrow x = 1
 \rightarrow while x \rightarrow 0
 >> puts x
 >> end
 > ctrl-c
```

Break

What is a Web Application?

Internet?



A Restaurant!



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.

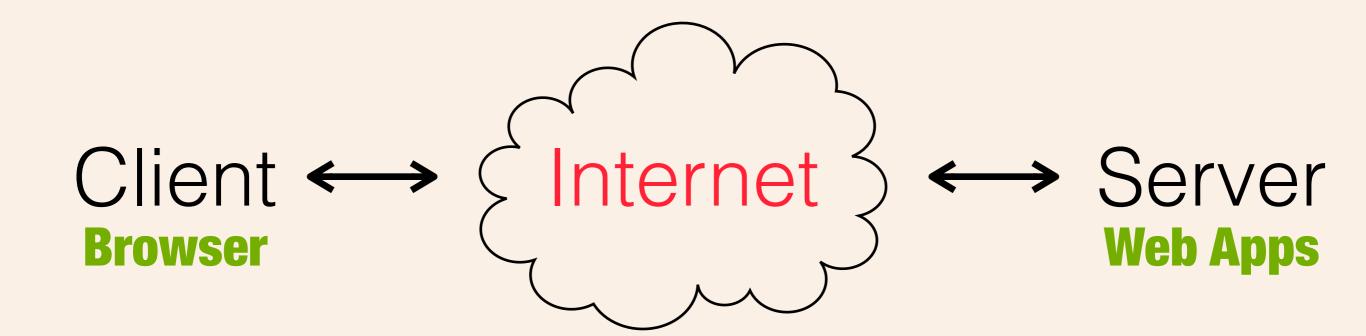
Online

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.

Internet?



Web Apps act like... Chefs

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

Let's build a Web Application

Ruby on Rails



http://rubyonrails.org

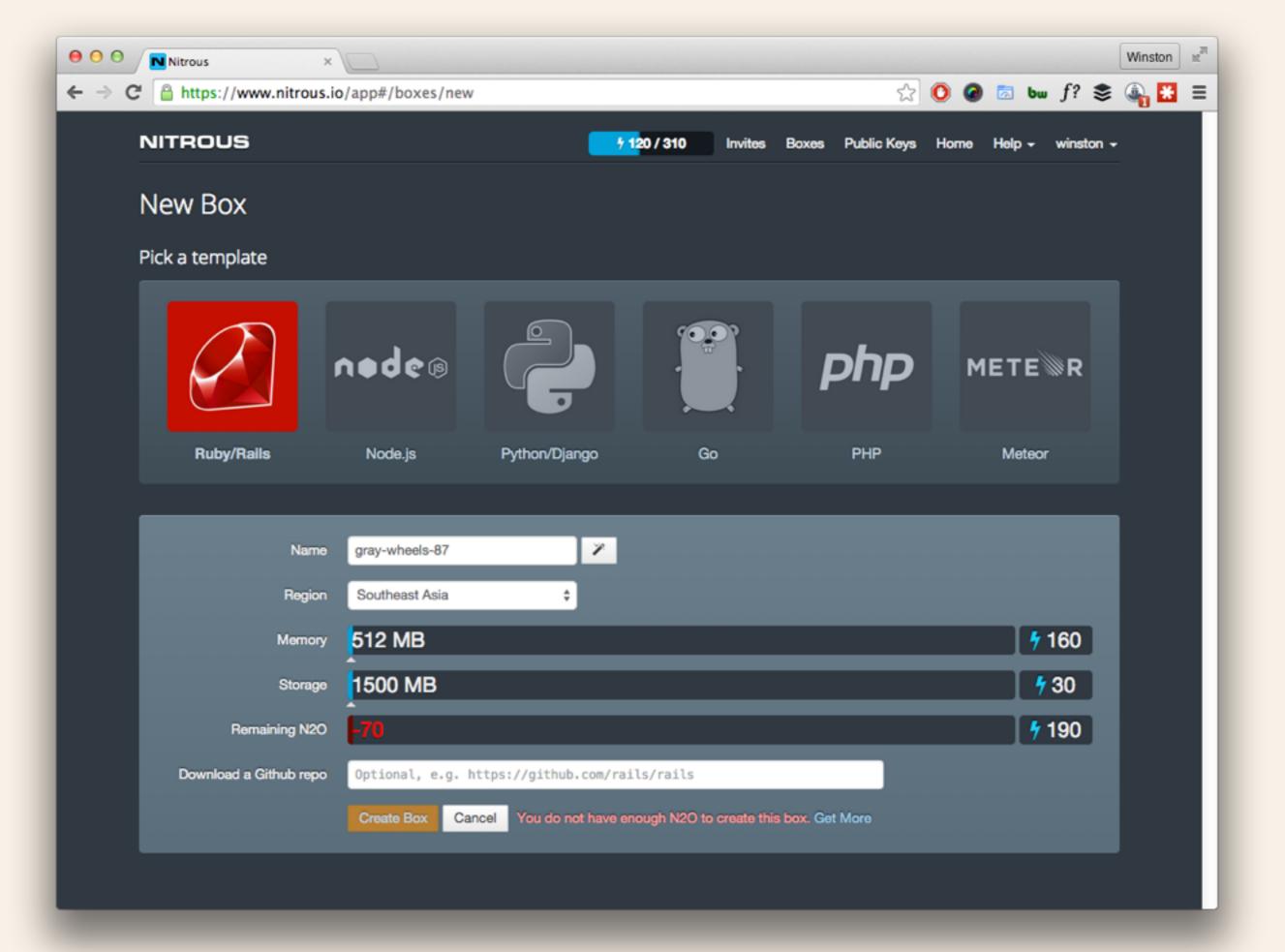


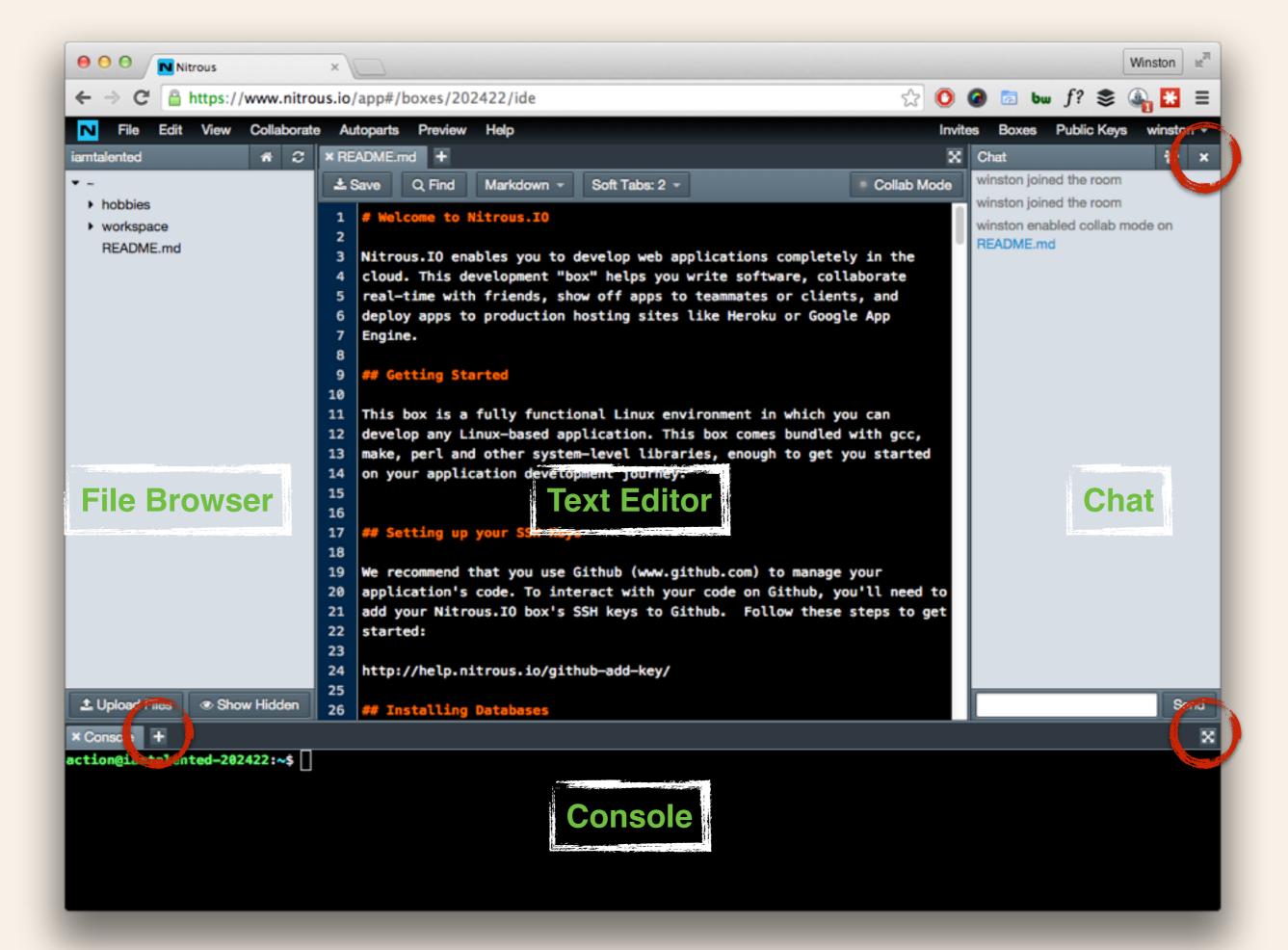
Ruby on Rails Powered

- Twitter
- Groupon
- Airbnb
- Shopify
- Hulu
- Viki

- Bloomberg
- Slideshare
- Basecamp
- Zendesk
- Friendster
- Wego

http://www.nitrous.io





Console Commands

```
irb
 >> pwd
 >> ls -la
 >> ruby -v
 >> rails -v
```

Create a Rails app

```
irb

>> cd workspace

>> rails new hobbies

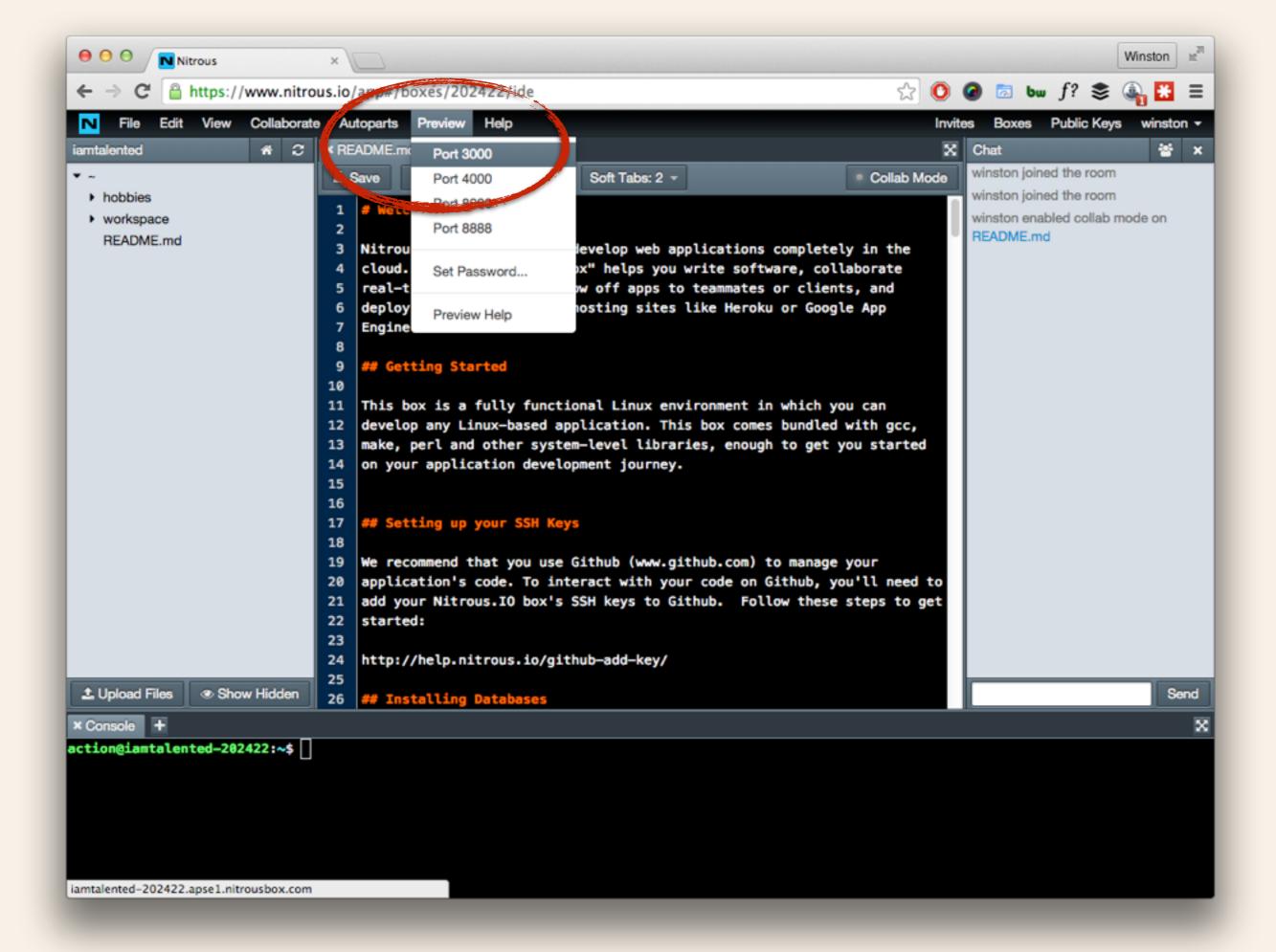
>> cd hobbies

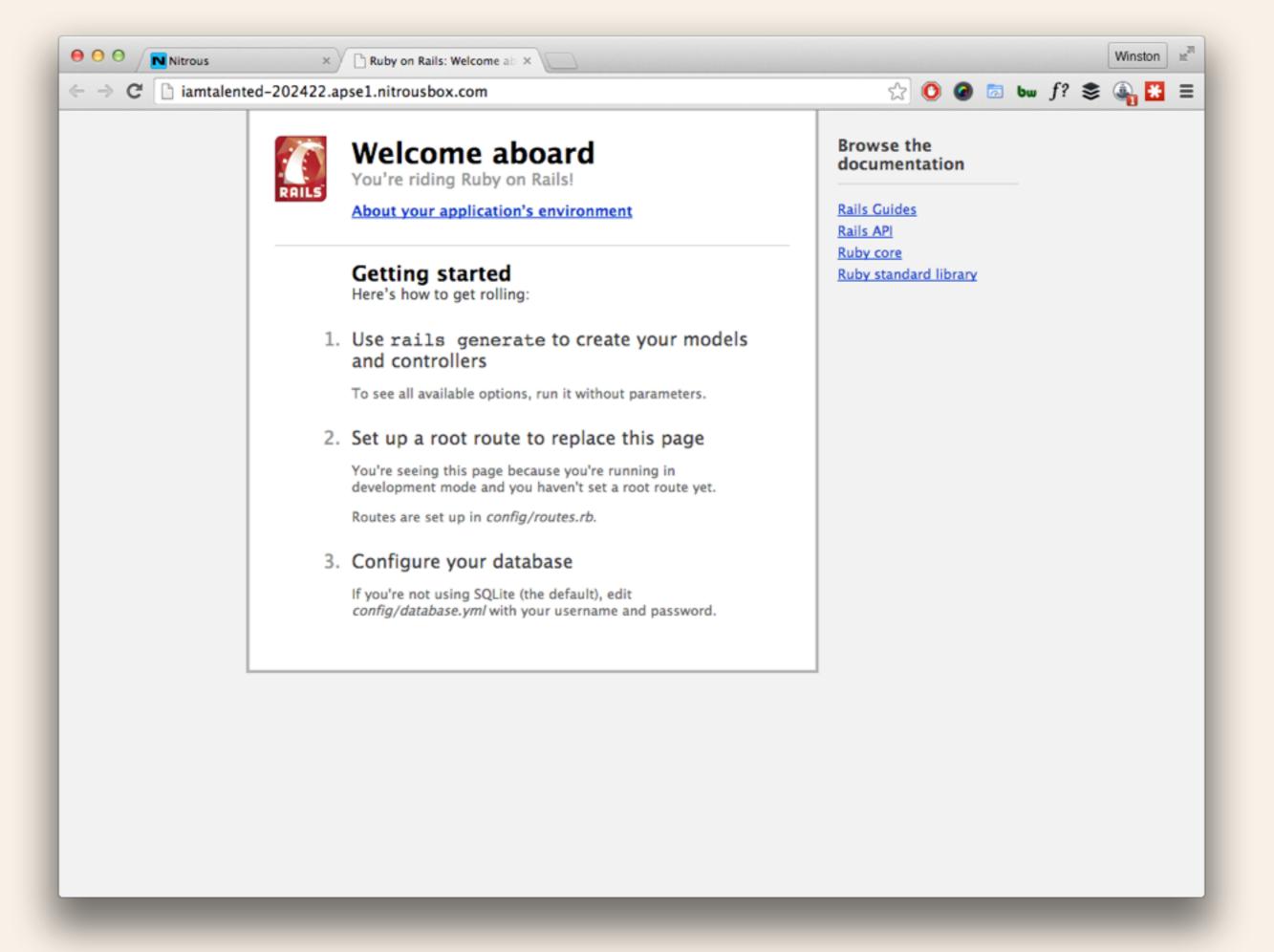
>> ls -la
```

Start a Rails app

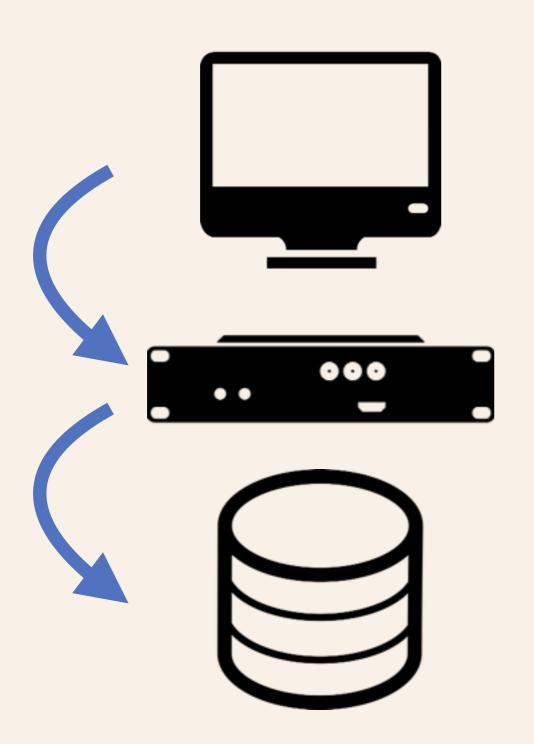
```
irb

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





Model-View-Controller

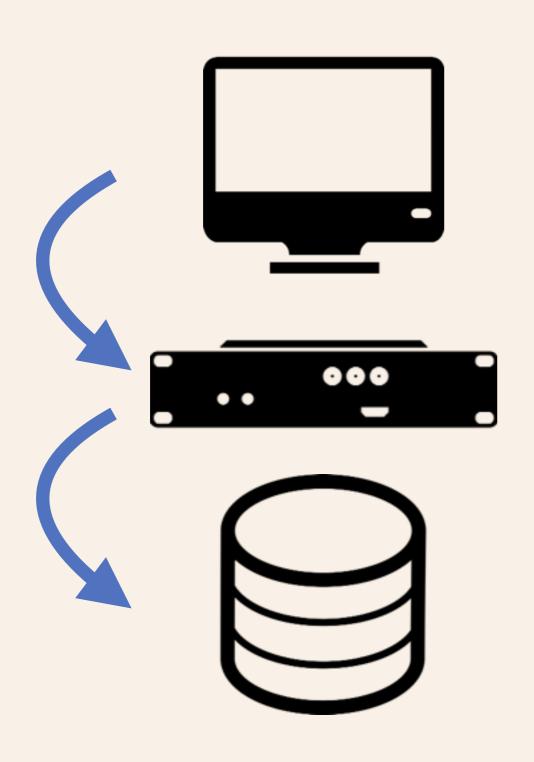


HTML / CSS / JavaScript

Logic Ruby / PHP / Python etc

Database
PostgreSQL, MySQL, Oracle etc

Model-View-Controller



View

HTML / CSS / JavaScript

Controller

Logic Ruby / PHP / Python etc

Model

Database
PostgreSQL, MySQL, Oracle etc

Follow Along

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!