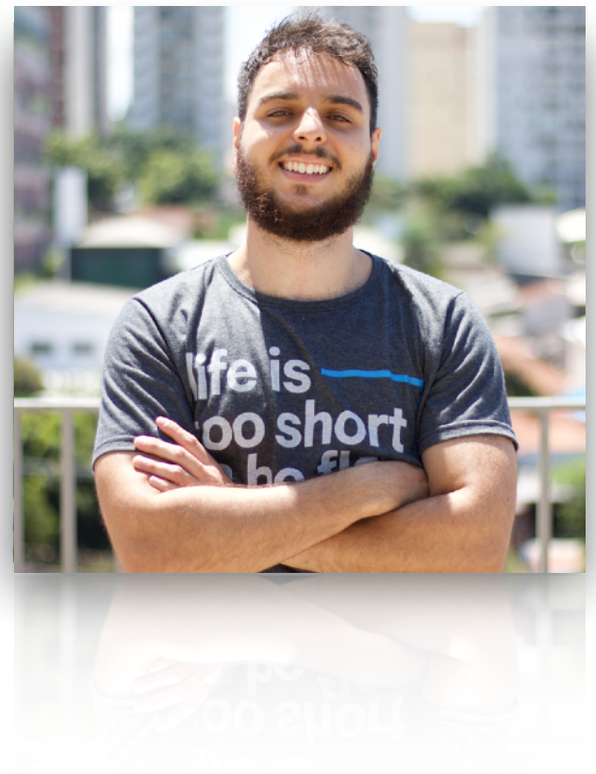
Please create an account on Github ;)

github.com

Ruby 101

le wagon

@gbs0s



Gabriel Schiavo

TA / Backoffice

@ Le Wagon

github.com/gbs0

linkedin.com/in/gabrielschiavo

DATA STRUCTURES AND ALGORITHMS

Why Ruby?

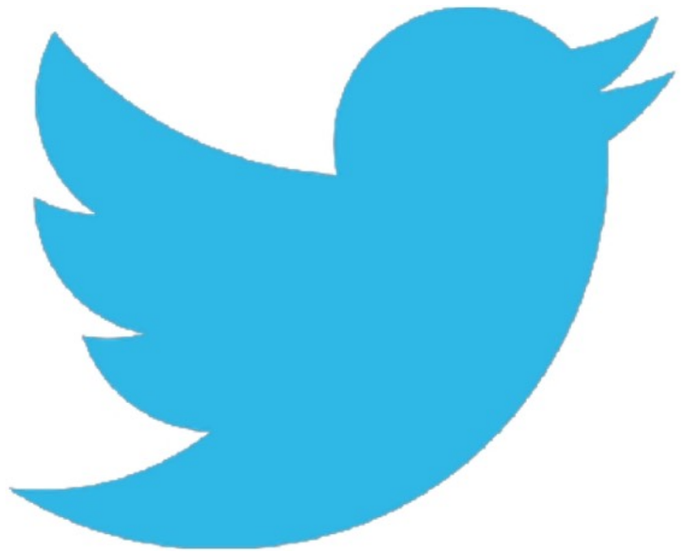
JAVA

```
public class HelloWorld {
 public static void main(String[] args) {
  System.out.println("Hello, World");
  }
}
```

RUBY

```
p "Hello, World"
```


twitch




airbnb

Workshop Outline

Theoretical intros

Basic concepts to understand

Live-code demos

We code, **you don't :)**

Your turn

Take your time & have fun

Setup

repl.it/languages/ruby

ruby-workshop.lewagon.com/

github.com

Datatypes

String

"John"

“John Lennon plays guitar”

"Hello, World!"

""

String Methods

“hello”.upcase = “HELLO”

“HELLO”.downcase = “hello”

“hEllo”.capitalize = “Hello”

“Hello” + “World" = “HelloWorld"

“Hello”.reverse = “olleH"

Fixnum (Number)

```
2
42
3,14
0
```

Fixnum Methods

```
2 + 2 = 4

54 - 43 = 11

5 * 3 = 15

10 / 2 = 5

1984.to_s = “1984”

20.even? = true

20.odd? = false
```

Boolean

```
true
false
```

Boolean Methods

```
2 == 2 => true
5 > 2 => true
2 == 5 => false
“Hello” == “Hello” => true
“hi" == “HI" => false
“hi" == “HI”.downcase => true
2 >= 5 => false
```

Variables

```
name = "Gabriel"
age = 22
programmer = true
```

Variables

```
first_name = “John"
last_name = “Lennon"

full_name = first_name + “ “ + last_name

full_name = “#{first_name} #{last_name}“
```

full_name => “John Lennon”

Repetitive Code...

```
first_name = “John"
last_name = “Lennon"
full_name = “#{first_name} #{last_name}”
```

full_name => “John Lennon”

```
first_name = “Paul”
last_name = “McCartney"
full_name  = “#{first_name} #{last_name}”
```

full_name => “Paul McCartney”

DRY

Don’t repeat yourself !

Methods

```
def method_name (parameter)
 // do something with parameter
end
```

Methods

```
def hello (name)
 puts “Hello #{name}!“
 end
```

```
hello(“John”) => “Hello John!”

hello(“Paul”) => “Hello Paul!"
```

Full Name Method

```
def full_name (first_name , last_name)
    return “#{first_name} #{last_name}”
end
```

```
full_name(“John” , “Lennon") => “John Lennon”
full_name(“Paul” , “McCartney”) => “Paul McCartney”
```

Time to Code!

ruby-workshop.lewagon.com

Use Google!

action object language

reverse string ruby

There's already an inplace reverse method, called "reverse!":

```
$ a = "abc"
$ a.reverse!
$ puts a
cba
```

ruby-workshop.lewagon.com

```
def age_next_year (age)
    return "Next year I'll be #{age + 1} years old."
end
```

```
def palindrome? (word)
  return word.downcase.reverse ==
  word.downcase
end
```

Array

```
[1, 2, 3, 4]
```

```
[“John”, “Paul”, “George”, “Ringo”]
```

```
[2, true, “Hello”, 42, “Ringo"]
```

Array Methods

```
[1, 53, 42, 4].sort => [1, 4, 42, 53]

[“John”, “Lennon”, “George”] << “Ringo”
=> [“John”, “Lennon”, “George”, “Ringo”]

[3, 5, true]. size => 3

“Hello World”. split (" ") => [“Hello”, “World”]

[1, 2] + [3, 4] => [1, 2, 3, 4]
```

```ruby
def merge_and_sort_array (array_one, array_two)
  return (array_one + array_two).sort
end
```

```
def word_counter (sentence)
  return sentence.split(" ").length
end
```

```ruby
def add_song_to_playlist (playlist_array, new_song)
  return playlist_array << new_song
end
```

Conditionals

```
if condition
  // do something
end
```

Conditionals

```
weather = “rainy”

if weather == “rainy”
  print “Take an umbrella!”
end
```

Conditionals

```
weather = “sunny”
if weather == “rainy”
 print “Take an umbrella!”
else
 print “Go Out!"
end
```

Conditionals

```
weather = “stormy”
  if weather == “rainy”
    print “Take an umbrella!”
  elsif weather == “stormy”
    print “Stay Home!"
  else
    print “Go Out!"
  end
```

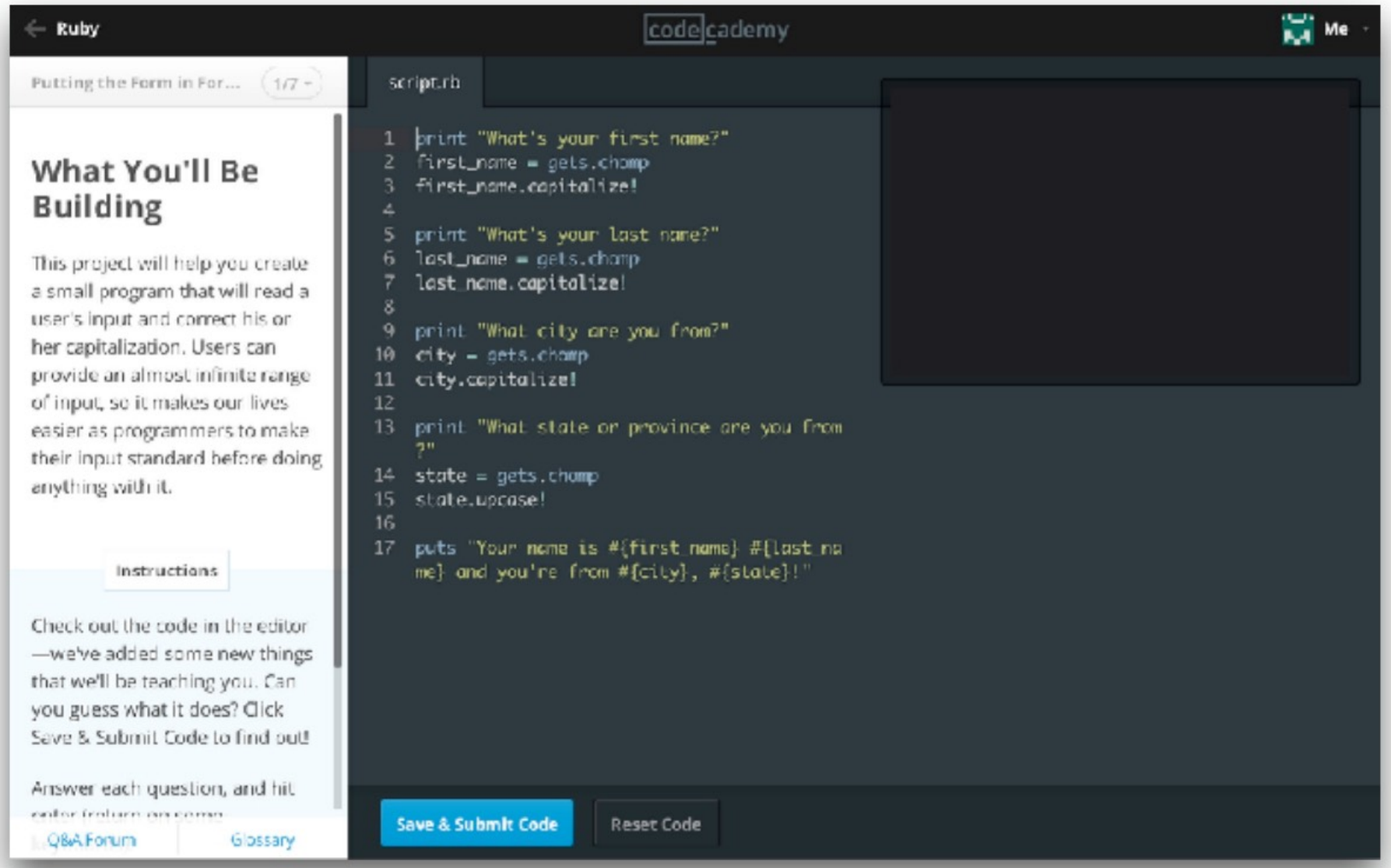
```
def odd_or_even (number)
  if number.odd?
    return "odd"
  else
    return "even"
  end
end
```

```
def can_you_vote? (age)
  if age >= 18
    return true
  else
    return false
  end
end
```

```
def max (a , b)
  if a > b
    return a
  else
    return b
  end
end
```

Resources 

Codecademy


Ruby
codecademy
Me
Putting the Form in For...
1/7
What You'll Be Building
This project will help you create a small program that will read a user's input and correct his or her capitalization. Users can provide an almost infinite range of input, so it makes our lives easier as programmers to make their input standard before doing anything with it.
Instructions
Check out the code in the editor—we've added some new things that we'll be teaching you. Can you guess what it does? Click Save & Submit Code to find out!
Answer each question, and hit
Q&A Forum
Glossary
script.rb
1 print "What's your first name?"
2 first_name = gets.chomp
3 first_name.capitalize!
4
5 print "What's your last name?"
6 last_name = gets.chomp
7 last_name.capitalize!
8
9 print "What city are you from?"
10 city = gets.chomp
11 city.capitalize!
12
13 print "What state or province are you from ?"
14 state = gets.chomp
15 state.upcase!
16
17 puts "Your name is #{first_name} #{last_name} and you're from #{city}, #{state}!"
Save & Submit Code
Reset Code

Udemy

Cursos de Ruby

Categorias relacionadas: Desenvolvimento, TI e software, Linguagens de programação, Desenvolvimento web

Curso em destaque

Iniciando com Ruby e Orientação a Objetos

Última atualização agosto 2017

CLASSIFICAÇÃO MAIS ALTA 6,5 horas • 57 aulas • Nível Iniciante ★★★★★ 4,8 (387 classificações)

Aprenda de vez Orientação a Objetos com Ruby! | Por Jackson Pires e 1 other

Veja o curso

~~R$174,99~~ **R$23,99**

Le Wagon

Thank you!

Feel free to contact me!

gabriel@lewagon.org

ana.riccetti@lewagon.org

https://lew.ag/ana-riccetti

http://bit.ly/applyLWSP

@lewagonbrasil

meetup

http://bit.ly/meetupLWSP