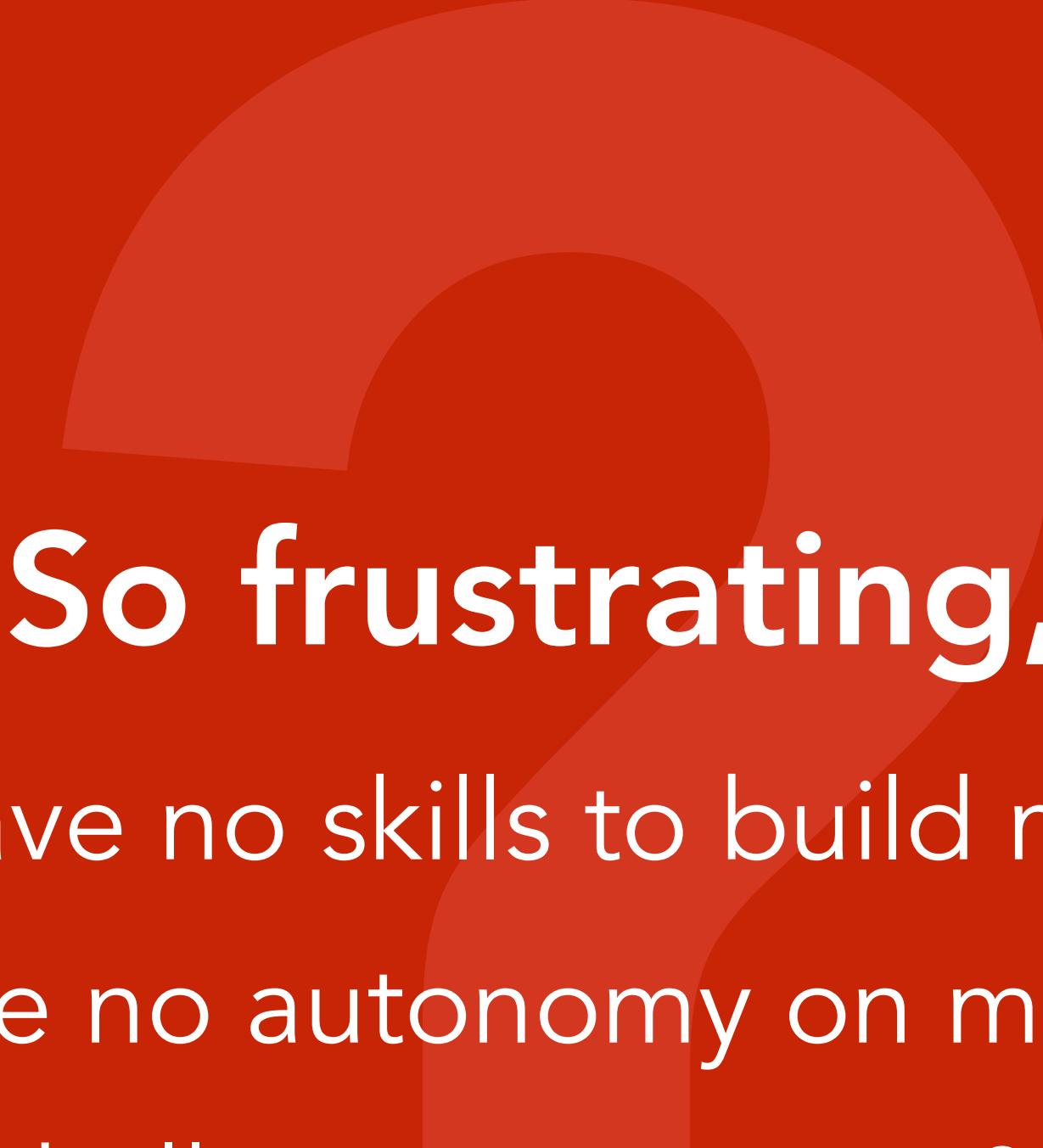


le wagon 



So frustrating, I...

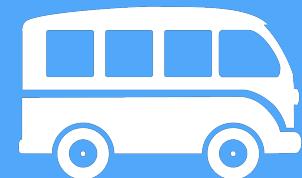
Have no skills to build my ideas

Have no autonomy on my projects

Can't challenge my team & contractors

#learntocode

Bring technical skills to creative people



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The screenshot shows a web-based programming environment. On the left, a code editor displays Ruby code for a restaurant inheritance challenge. The main area contains an exercise card for 'OO Basics' with sections for 'Instructions', 'Background & Objectives', 'Specs', and 'Mates'. The 'Instructions' section provides git commands to update the exercise. The 'Background & Objectives' section encourages grasping object-oriented programming basics. The 'Specs' section suggests modeling real-world objects like restaurants or vehicles. The 'Mates' section lists student profiles with their completion status: JeanRemy (100%, good style), Julian Nacci (100%, good style), Louis Baudoin (100%, good style), cyril lopez (100%, good style), Antonin Archer (100%, good style), Jean-Baptiste Beck (100%, good style), and julienjacquemond (100%, good). To the right, a separate window shows a 'CLASS ME' interface with a partial view of another exercise and a message about calling methods.

Wed 22 Jul. 2015

OO Basics

1- Define your own class

2 - Getters and Setters

3 - Basic OOP

4 - Public Interface

opt. Richest Student

opt. Method Missing

```
1 class Restaurant
2   attr_accessor :name, :city, :clients
3   def initialize(name, city)
4     @name, @city = name, city
5     @clients = []
6   end

7   def print_clients
8     @clients.each_with_index do |client, index|
9       puts "Client #{index + 1} => #{client}"
10    end
11 end

12 class FastFood < Restaurant
13   attr_accessor :preparation_time
14
15   def initialize(name, city, preparation_time)
16     super(name, city)
17     @preparation_time = preparation_time
18   end

19   def print_clients
20     puts "----#{@name}----"
21     super
22     puts "-----"
23   end

24 class Gastronomic < Restaurant
25   def initialize(name, city, stars)
26     @name, @city, @stars = name, city, stars
27   end

28 mcdonald = FastFood.new("McDo", "San Francisco", 10)
29 mcdonald.clients << "Bob" << "Brian" << "Mike"
30 mcdonald.print_clients
31
32
33
34
35
36
37
38
39
40
41
```

restau

kitt.lewagon.org

Lectures | Batch 11 - Paris | Dashboard | Teacher

Instructions

First make sure that your **git status** is **clean**. Then you can get the latest version of the current exercise, and go directly to it with the following commands:

```
$ cd ~/code/cedricmentea/fullstack-challenges/
$ git pull upstream master
$ cd 02-00P/01-00-Basics/01-Define-your-own-class
$ rake
$ stt
```

Mates

JeanRemy (2 days ago) 100% good style

Julian Nacci (2 days ago) 100% good style

Louis Baudoin (2 days ago) 100% good style

cyril lopez (2 days ago) 100% good style

Antonin Archer (2 days ago) 100% good style

Jean-Baptiste Beck (2 days ago) 100% good style

julienjacquemond (2 days ago) 100% good

Solution

CLASS ME

class Castle < Building
 def self.destroy_for(someone)
 puts "We are destroying your br"
 # [. . .]
 end
end

No

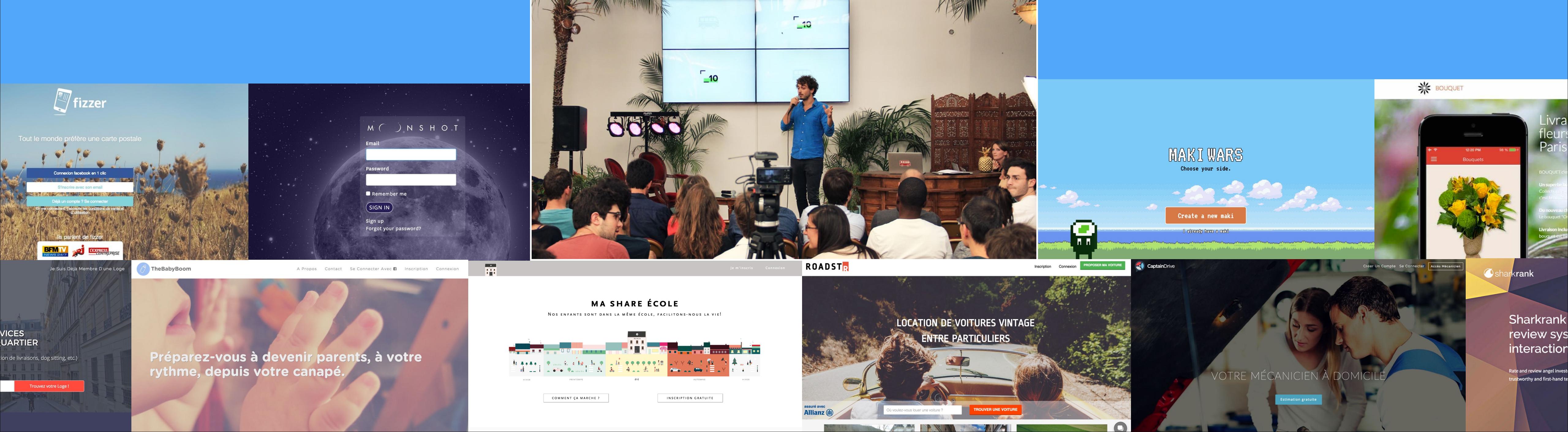
You can call this m

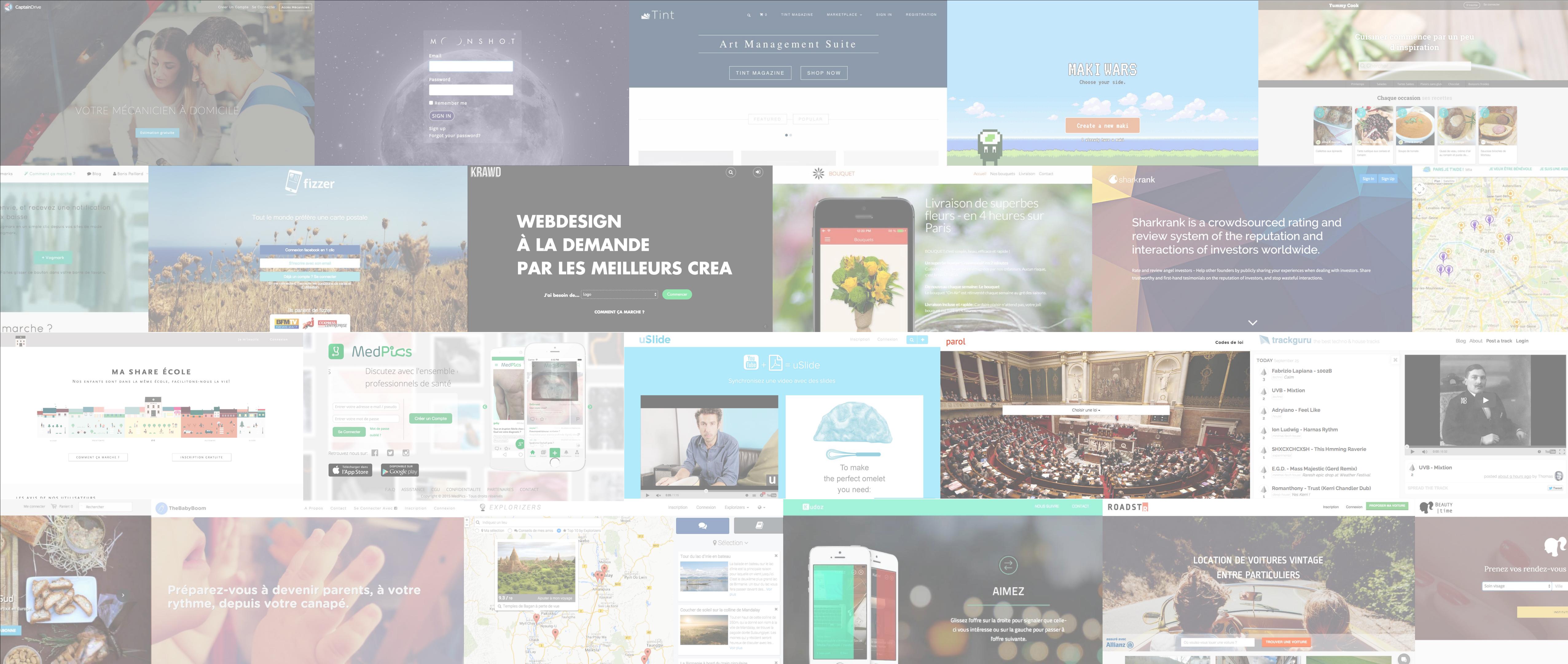
Castle.destroy_for("Boris")
=> We are destroying your brand n

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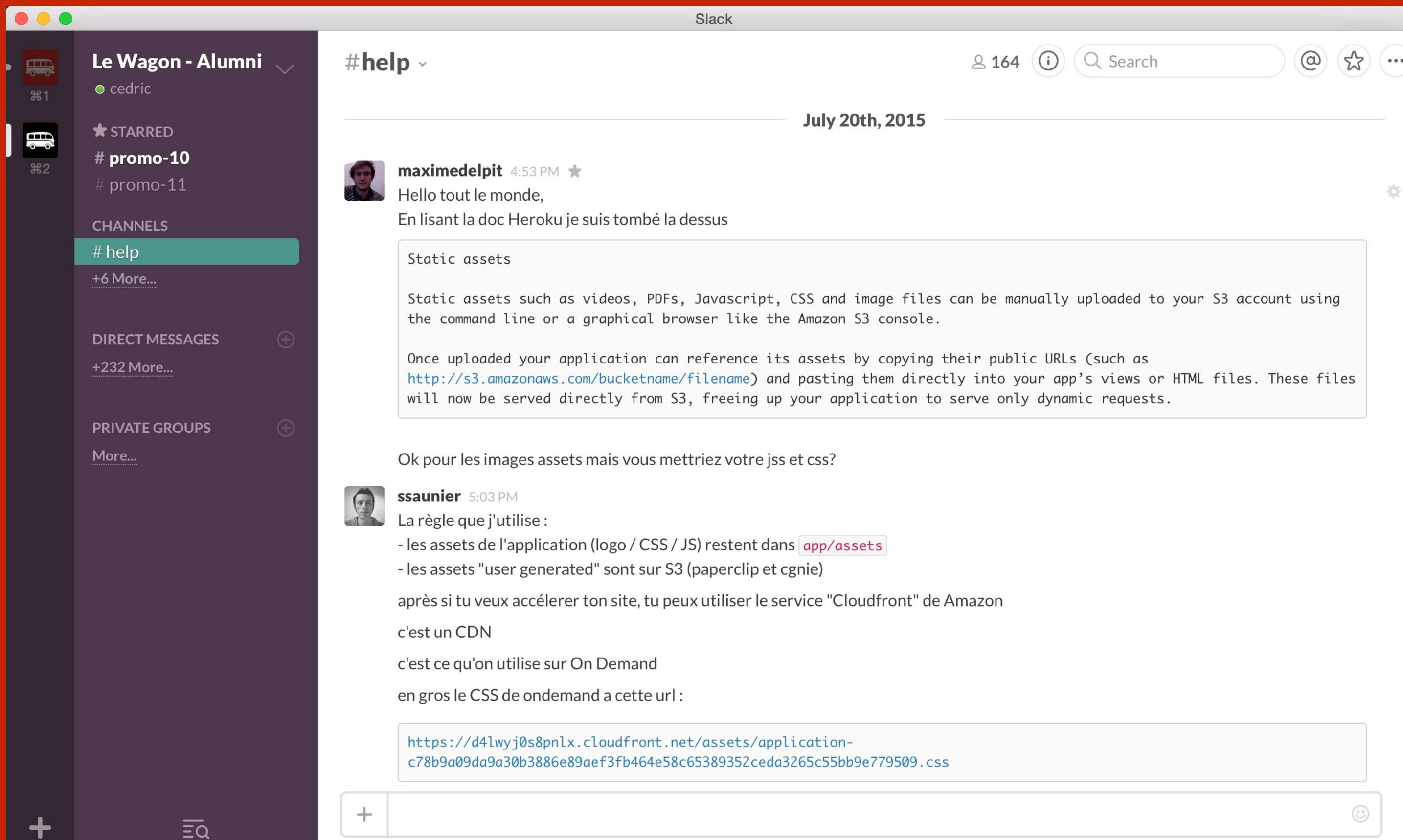
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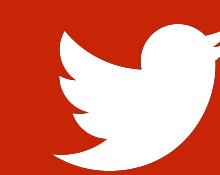
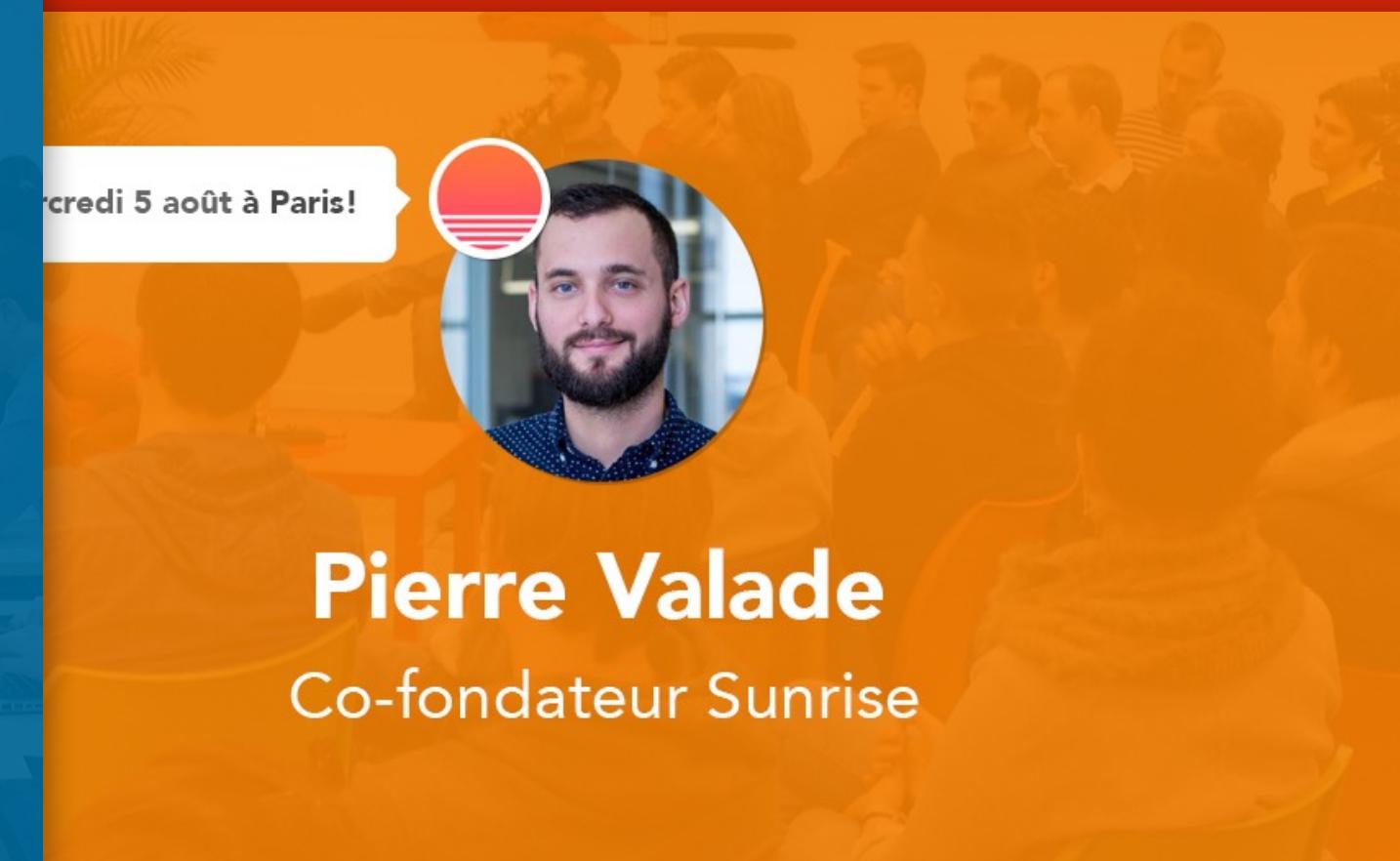


There is a # for that
The community knows the answer...
before you get the issue



It keeps growing!

Getting people together around tech
workshops and startup culture



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Sebastien Saunier

CTO



Fernando Americano

Ex Qualcomm / Startup Farm



Mathieu Le Roux

Ex VC / Deezer



Pedro Meyer

Teacher Le Wagon

Introduction to **Ruby**



André **Almar**



Java

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

Ruby

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

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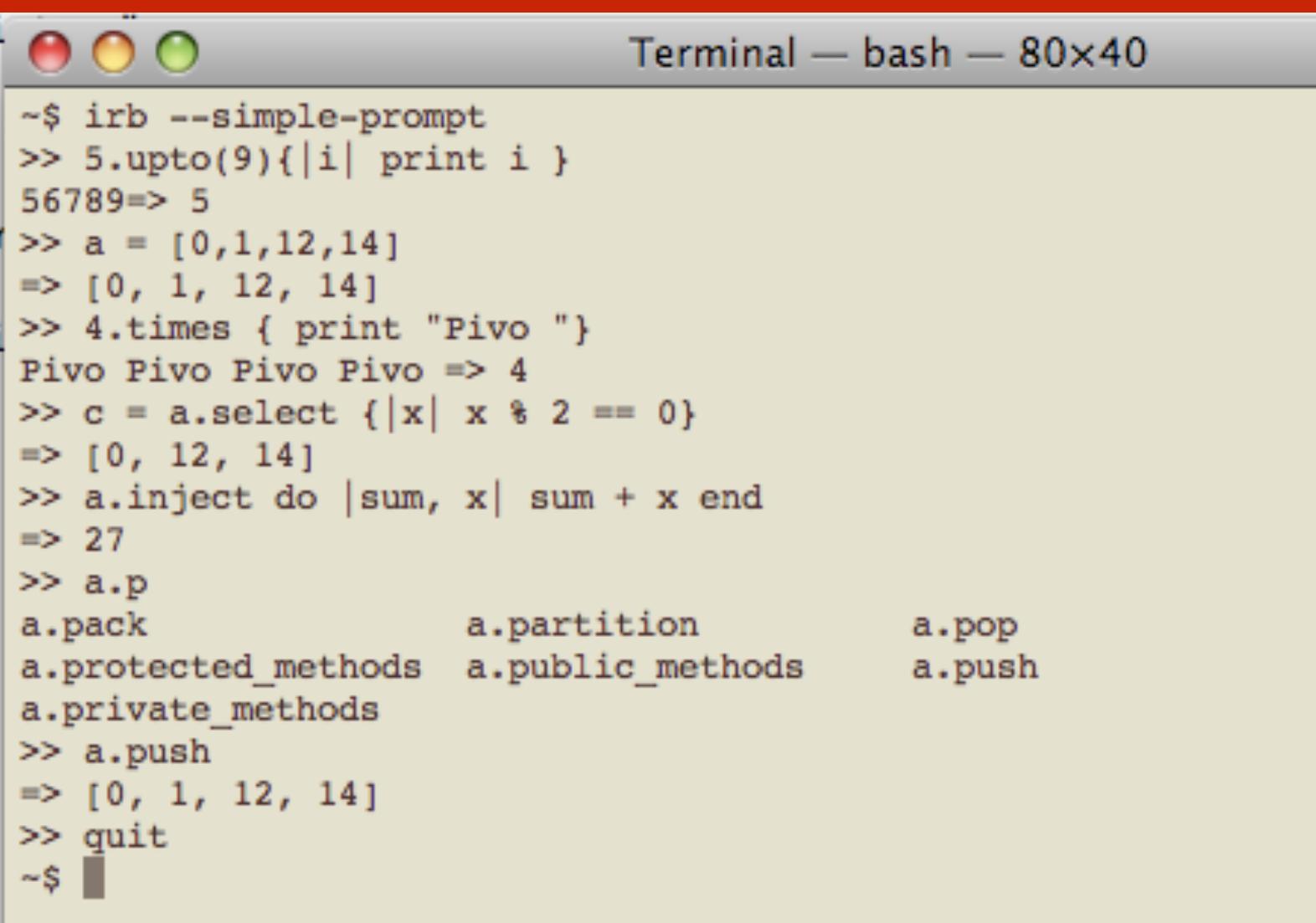
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Forked from lewagon/dotfiles
Default configuration for Le Wagon's students
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- profile**
exo-airbnb
★ 0 ● HTML
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Ruby
★ 0 ● Ruby
- longest-game**
Ruby
★ 0 ● Ruby

353 contributions in the last year

Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug

Mon Wed Fri

Interactive **Ruby** Shell



A screenshot of a Mac OS X terminal window titled "Terminal — bash — 80x40". The window contains the following Ruby code:

```
~$ irb --simple-prompt
>> 5.upto(9){|i| print i }
56789=> 5
>> a = [0,1,12,14]
=> [0, 1, 12, 14]
>> 4.times { print "Pivo "}
Pivo Pivo Pivo Pivo => 4
>> c = a.select {|x| x % 2 == 0}
=> [0, 12, 14]
>> a.inject do |sum, x| sum + x end
=> 27
>> a.p
a.pack           a.partition      a.pop
a.protected_methods a.public_methods a.push
a.private_methods
>> a.push
=> [0, 1, 12, 14]
>> quit
~$
```

Built in Objects

"Sponge Bob".class	#=> String
12.class	#=> Fixnum
3.14.class	#=> Float
["Sponge Bob", 12, 3.14].class	#=> Array
true.class	#=> TrueClass
false.class	#=> FalseClass
(1..100).class	#=> Range

Strings

```
"yipi yeah".upcase  #=> "YIPI YEAH"  
"Hello" == 'Hello'    #=> true
```

```
nome = "Andre"  
sobrenome = "Almar"  
  
# concatenação  
puts nome + " " + sobrenome      #=> "Andre Almar"  
  
# interpolação  
puts "#{nome} #{sobrenome}"      #=> "Andre Almar"
```

Fixnum

```
# Standard arithmetic
1 + 2      #=> 3
2 * 4      #=> 8

# Custom methods
20.even   #=> true
20.odd    #=> false

# Conversion to string
1984.to_s  #=> "1984"
```

Array

```
["Sponge Bob", 12, 3.14].size          #=> 3
[“João”, “Amanda”, “Bruno”].sort      #=> [“Amanda”, “Bruno”, “João”]
[3, 5, 1].sort      #=> [1, 3, 5]
```

Range

```
(1..10).to_a  #=> [1,2,3,4,5,6,7,8,9,10]  
(1...10).to_a #=> [1,2,3,4,5,6,7,8,9]
```

Basic concepts

arithmetic operations (+, -, *, /, **, %)

puts vs print

= vs ==

Why **Variables**?

```
age = 17  
puts "You are #{age} years old"  
  
puts "Lucky you, it's your  
birthday"  
age = age + 1  
puts "You are now #{age}"
```

Assignment

```
1 city = "Paris"  
2 population = 2000000
```

city
"Paris"

population
2000000

Assignment

```
1 city = "Paris"  
2 population = 2000000  
  
3 city_details = "#{city}, France"
```

city	population	
"Paris"	2000000	
city	population	city_details
"Paris"	2000000	"Paris, France"

Why **Methods**?

```
def tomorrow
  tomorrow_date = Date.today + 1
  return tomorrow_date.strftime("%B %d")
end

puts tomorrow
```

Combine **Variables** and **Methods**

```
def full_name(first_name, last_name)
  name = first_name.capitalize + " " + last_name.capitalize
  return name
end

puts full_name("boris", "paillard")
puts full_name("sebastien", "saunier")
```

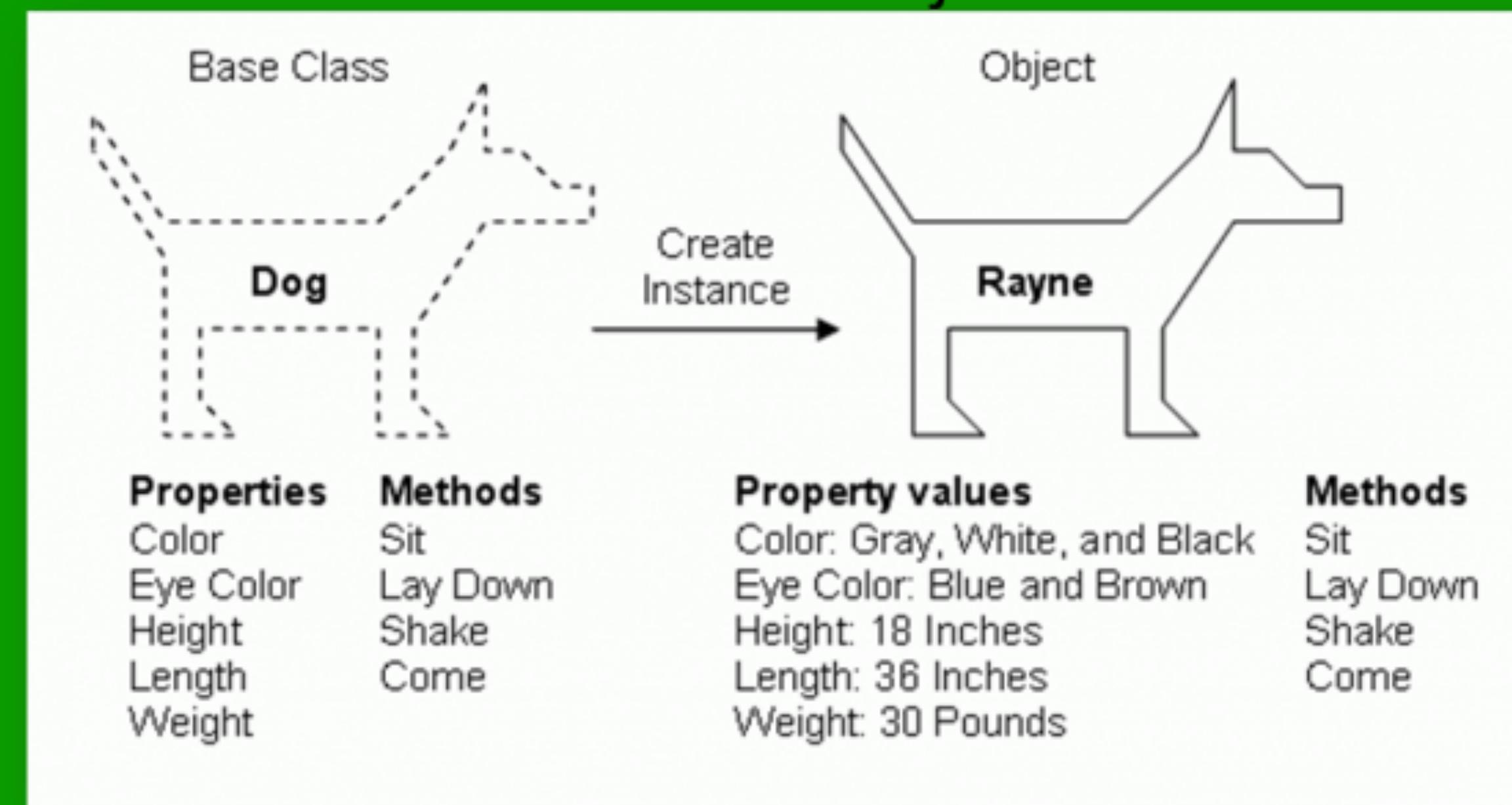
Comments

```
# this is a one line comment  
  
=begin  
this  
is  
a  
multi-line  
comment  
=end
```

Your **best friend**:

<http://ruby-doc.org/>

Object Oriented Programming



Controlling the **FLOW**

Top to bottom / line-by-line



```
beattles.rb      x
1 john = "John Lennon"
2 ringo = "Ringo Starr"
3 paul = "Paul McCartney"
4 georges = "George Harrisson"
5
6 beatles = [john, ringo, paul, georges]
7
8 sorted_beatles = beatles.sort
9
10 puts sorted_beatles
```

Line 10, Column 20; Saved ~/Desktop/Le Wagon/Premiere Classe/tracking promo2/ruby/2-Arrays/prez/be

Breaking the **FLOW**

```
if condition
  # code executed only when condition is "truthy"
end
```

LIVE CODE - Can you vote?

```
puts "How old are you?"  
print ">"  
age = gets.chomp.to_i  
  
if age >= 18  
  puts "you can vote!"  
end
```

if...else

```
if condition
    # executed when condition is truthy
else
    # executed when condition is NOT truthy
end
```

LIVE CODE - Can you vote?

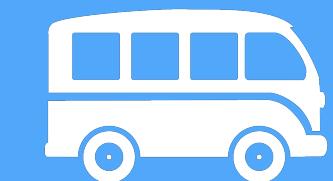
```
puts "How old are you?"  
print ">"  
age = gets.chomp.to_i  
  
if age >= 18  
  puts "you can vote!"  
else  
  puts "too young to vote.."  
end
```

Conventions

Methods and variables in **snake_case**

```
good_method_or_variable_name
```

vamo botá a mão na massa!



LIVE CODE

Posso votar?

Crie um programa que irá perguntar qual a idade do usuário e, caso o usuário seja maior de 18 anos, o programa deverá responder que o usuário pode votar.

LIVE CODE

Bom dia, boa tarde ou boa noite?

Crie um programa que, ao ser executado, irá dizer bom dia, boa tarde ou boa noite, dependendo da hora.

LIVE CODE

Fizz buzz

Crie um programa que irá perguntar um número ao usuário e em seguida irá contar até este número mas no lugar dos múltiplos de três irá escrever Fizz, no lugar dos múltiplos de 5, Buzz e nos múltiplos de 3 e 5 “Fizzbuzz”.

Exemplo: 1, 2, fizz, 4, buzz, fizz, 7, 8, fizz, buzz, 11, fizz, 13, 14, fizzbuzz

LIVE CODE

Adivinhe o número

Crie um programa que irá escolher um número de um a 10, depois irá perguntar ao usuário um número, informando-o caso ele adivinhe o número selecionado pelo computador

LIVE CODE

Black Jack

Crie um jogo de black jack!