## Programming for Everybody

9. Object-Oriented Programming, Part 1



#### Primitive Objects

Until now we've been assigning and manipulating different types of primitive objects

```
String
             "Hello, welcome to Le Wagon!"
<u>Integer</u>
             4
             3.14
Float
TrueClass
             true
             false
FalseClass
             nil
NilClass
             ["Hello!", 4, 3.14, true, false, nil, [], {}, :symbol]
<u>Array</u>
             { first_key: "a string value", number: 4, array: ["""] }
Hash
             :gabriele
Symbol
             (param)-> { puts "The proc param is: #{}" }
Proc
```

#### **Attributes and Behaviours**

Ruby is *object-oriented*, and uses objects to store **attributes** and execute **methods** 

```
"Hello!".length # => the method :length (symbols for method names!) returns the attribute 6 of type Integer
4.even? # => the method :even? returns the attribute 6 of type TrueClass
teachers = [ # => the assignment returns an attribute teachers of type Array, containing two Hashes
  {
    name: "Mariana",
     age: 37,
     country: """
  },
    name: "Gabriele",
     age: 27,
     country: "II"
  },
get_flag = ->(teacher) { teacher[:country] } # => fastest and cleanest way to assign a Proc (omit the return!)
flags = teachers.map(&get_flag) # pass it to the method, and store an Array called flags, which will contain 2 Strings
p flags # returns an instance of Array ( see why) and sends the object to the console
```

### Let's see some more live examples!

# In the next section we will create our own Classes

See you soon!

