Programming for Everybody

7. Refactoring



The beauty of Ruby

Ruby emphasises human needs over those of computers, and is the programming language more similar to spoken english. And the more intuitive a language's syntax is, the more productive (and happy) the programmer will be!

Since programmers happiness is Ruby's first goal, there are a lot of syntax shortcuts that can help you write code in a faster, cleaner, and more efficient way

Try to use them, and you'll see your code quickly becoming similar to a normal language!

One-line Conditionals

When the *block* inside a conditional statement (like if or unless) is **just taking one line**, you can write all the statement on one line, and place the condition after the block (without specifying the end keyword):

puts "you can vote!" if age >= 18

Ternary Operator (one-line if-else statement)

An quicker and more concise version of the if-else statement the **ternary conditional expression**

It takes three arguments: a condition, some code to execute if the condition is true, and some code to execute if the condition is false.

condition ? do this if true : do this if false

Ternary Operator (one-line if-else statement)

Use it again **only** when the condition can be written in one-line!

```
puts can be before,
DRY (don't repeat
yourself!)
puts "you can't vote yet!"
```

puts age >= 18 ? "you can vote!" : "you can't vote yet!"

Case Statement (a.k.a Switch)

Use it when you have a lot of elsifs conditions, it's faster and cleaner!

puts "Which language are you learning?"

```
language = gets.chomp

case language
  when "ruby" then puts "Web apps!"
  when "css" then puts "Style!"
  when "python" then puts "Data science!"
  else puts "Sounds interesting!"
```

end

Conditional Assignment

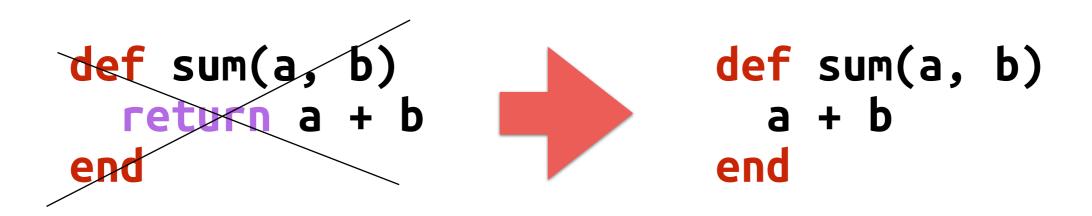
Use it to assign a variable only if it hasn't been assigned yet!

Implicit Return

In Ruby you don't always need the return keyword to give back a value from a method (in most of programming languages you do!)

If you don't specify a return, the method will return the result of its last line of code

Use return only when is not in the last line of your method!



One-line Blocks

When a block (remember, a block is the code inside a pre-defined method) is taking just one line, you can put the entire method on one line, and use curly brackets instead of def and end

```
["gabriele", "mariana"].each do name puts name.capitalize end
```

["gabriele", "mariana"].each { | name | puts name.capitalize }

Let's see some more live examples!

Thank you!:)

