# Ruby Monstas



Session 6

### **Agenda**

- Error messages
- Interactive Error message exercise
- Boolean Operators
- Exercises



```
def execute_quit_command
  puts "Goodbye!"
  ext
end
def execute_command(command, todos)
  if command == "quit"
    execute_quit_command
  elsif command == "list"
  end
end
puts "Welcome to the todo list"
todos = ["Buy milk", "Finish rubymonstas exercise"]
loop do
  puts "Please enter your command!"
  command = gets.chomp
  execute_command(command, todos)
end
```

```
def execute_quit_command
  puts "Goodbye!"
  ext
end
def execute_command(command, todos)
  if command == "quit"
    execute quit command
  elsif command == "list"
  end
end
puts "Welcome to the todo list"
todos = ["Buy milk", "Finish rubymonstas exercise"]
loop do
  puts "Please enter your command!"
  command = gets.chomp
  execute_command(command, todos)
end
```

```
def execute_quit_command
  puts "Goodbye!"
  ext
end
def execute_command(command, todos)
  if command == "quit"
    execute quit command
  elsif command == "list"
  end
end
puts "Welcome to the todo list"
todos = ["Buy milk", "Finish rubymonstas exercise"]
loop do
  puts "Please enter your command!"
  command = gets.chomp
  execute_command(command, todos)
end
```

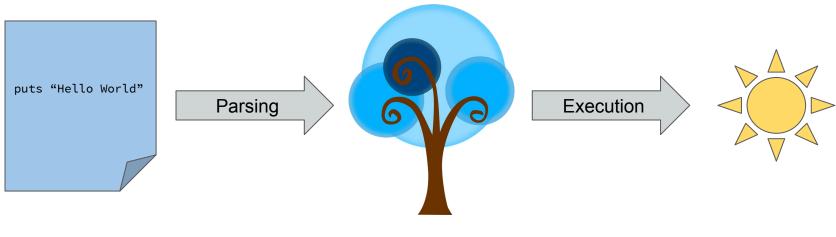
```
def execute_quit_command
  puts "Goodbye!"
  ext
end
def execute_command(command, todos)
  if command == "quit"
    execute_quit_command
  elsif command == "list"
  end
end
puts "Welcome to the todo list"
todos = ["Buy milk", "Finish rubymonstas exercise"]
loop do
  puts "Please enter your command!"
  command = gets.chomp
  execute_command(command, todos)
end
```

```
def execute_quit_command
  puts "Goodbye!"
  ext
end
def execute_command(command, todos)
  if command == "quit"
    execute quit command
  elsif command == "list"
  end
end
puts "Welcome to the todo list"
todos = ["Buy milk", "Finish rubymonstas exercise"]
loop do
  puts "Please enter your command!"
  command = gets.chomp
  execute_command(command, todos)
end
```

```
def execute_quit_command
  puts "Goodbye!"
  ext
def execute_command(command, todos)
  if command == "quit"
    execute quit command
  elsif command == "list"
  end
end
puts "Welcome to the todo list"
todos = ["Buy milk" "Finish rubymonstas exercise"]
loop do
  puts "Please enter your command!"
  command = gets.chomp
  execute_command(command, todos)
end
```

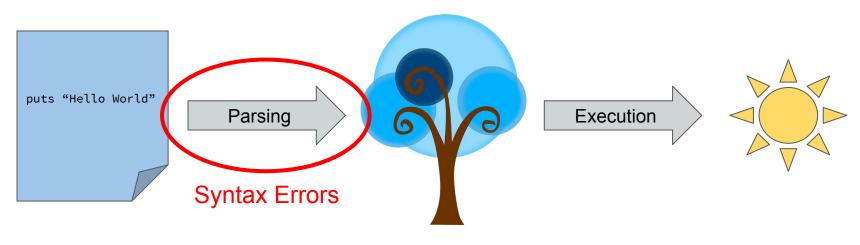
```
def execute_quit_command
  puts "Goodbye!"
  ext
end
def execute_command(command, todos)
  if command == "quit"
    execute quit command
  elsif command == "list"
  end
end
puts "Welcome to the todo list"
todos = ["Buy milk", "Finish rubymonstas exercise"]
loop do
  puts "Please enter your command!"
  command = gets.chomp
  execute_command(command, todos)
end
```

#### How does Ruby execute code?



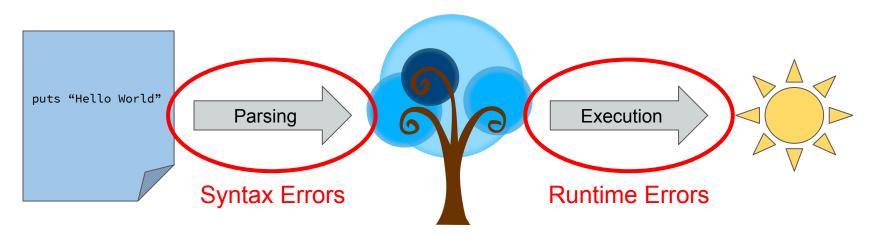
**Abstract Parse Tree** 

#### How does Ruby execute code?



**Abstract Parse Tree** 

#### How does Ruby execute code?



**Abstract Parse Tree** 

### Syntax error

- Occurs before actually executing your code
- Your Ruby file does not adhere to the syntax rules of Ruby
- Syntax highlighting can help avoid these errors

```
def break_words(stuff)
  words = stuff.split(' ')
  return words
ed
```

```
session-6-error-exercise-solution.rb:85: syntax error, unexpected end-of-input, expecting keyword_end
```

### Syntax error

```
[1, 2, 3].each puts integer end
```

```
session-6-error-exercise-solution.rb:60: syntax error, unexpected keyword_end, expecting end-of-input
```

#### Runtime errors

- Occurs during execution of your code
- Includes a backtrace
- Logic, naming, unexpected input, ...

```
def criticise_user_name(name)
  proper_name_length = 9
  if name.length == proper_name_length
      puts "Now that's a proper name!"
  els
      puts "This name is too long or too short!"
  end
end
session-6-error-exercise-syntax-fixed.rb:54:in `criticise_user_name': undefined local variable or method
`els' for main:Object (NameError)
    from session-6-error-exercise-syntax-fixed.rb:97:in `<main>'
```

# Interactive error message exercise

# Boolean Operators

#### Not

```
if !condition
  # the condition is false
end
if condition1 != condition2
  # condition1 and condition2 are not equal
end
condition is a boolean.
```

## Not: example

```
irb> name = "John"
=> "John"
irb> is_guest = false
=> false
irb> if !is_guest
irb> puts "Welcome back, #{name}"
irb> end
Welcome back, John
=> nil
```

#### **AND**

```
if condition1 && condition2
  # condition1 and condition2 are true
end
```

condition is a boolean.

### **AND:** example

```
irb> age = 26
=> 26
irb> if age > 25 && age < 50
irb> puts "Your age is between 25 and 50"
irb> end
Your age is between 25 and 50
=> nil
```

#### OR

```
if condition1 || condition2
```

# condition1 or condition2 is true, or both are true
end

condition is a boolean.

#### **OR:** example

```
irb> name = "root"
=> "root"
irb> is_admin = true
=> true
irb> if name == "root" || is_admin
irb> puts "You have super powers!"
irb> end
You have super powers!
=> nil
```

# Time to practice



Let's get to it!