

Seven Languages in Seven Weeks

Correl Roush

May 27, 2015

Created ~1993

Author Yukihiro
Matsumoto

Interpreted, object-oriented, and
dynamically typed.



`http://www.ruby-lang.org/en/downloads/`

Source

```
properties = ['object oriented', 'duck typed',  
             'productive', 'fun']  
properties.each {|property| puts "Ruby is #{property}."}
```

Output

```
Ruby is object oriented.  
Ruby is duck typed.  
Ruby is productive.  
Ruby is fun.
```

- Object-Oriented
- Simple Conditionals
- Strong / Dynamic Typing
- Duck Typing

Source

```
i = 0
a = ['100', 100.0]
while i < 2
  puts a[i].to_i
  i = i + 1
end
```

Output

```
100
100
```

EXERCISES

DAY 2: FLOATING DOWN FROM THE SKY

- Defining Functions
- Arrays
- Hashes
- Code Blocks and Yield
- Running Ruby from a File
- Defining Classes
- Writing a Mixin
- Modules, Enumerable, and Sets


```
def tell_the_truth
  true
end
```

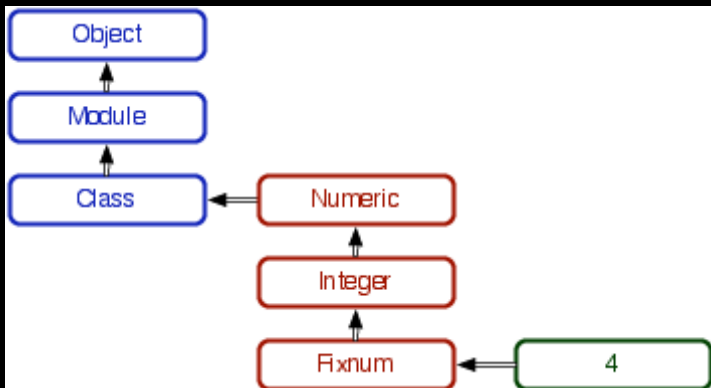
Source

```
class Fixnum
  def my_times
    i = self
    while i > 0
      i = i - 1
      yield
    end
  end
end

3.my_times {puts 'mangy moose'}
```

Results

```
mangy moose
mangy moose
mangy moose
```



EXERCISES

- Open Classes
- `method_missing`
- Modules

```
class Roman
  def self.method_missing name, *args
    roman = name.to_s
    roman.gsub!("IV", "IIII")
    roman.gsub!("IX", "VIIII")
    roman.gsub!("XL", "XXXXX")
    roman.gsub!("XC", "LXXXXX")

    (roman.count("I") +
     roman.count("V") * 5 +
     roman.count("X") * 10 +
     roman.count("L") * 50 +
     roman.count("C") * 100)

  end
end

puts Roman.X
puts Roman.XC
puts Roman.XII
puts Roman.X
```

EXERCISES

WRAPPING UP: CORE STRENGTHS

- Scripting
- Web Development
- Time to Market

Seven Languages in Seven Weeks

- Performance
- Concurrency and OOP
- Type Safety

Syntax and flexibility vs. performance.