

---

# Ruby Monstas



---

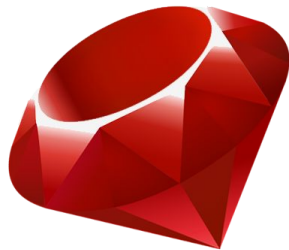
## Session 8

---

# Agenda

---

- Symbols
- Ranges
- Exercises



---

# Symbols

---

---

# How to write a symbol?

---

```
irb(main):001:0> :name
```

```
=> :name
```

```
irb(main):002:0> :address
```

```
=> :address
```

```
irb(main):003:0> :any_string
```

```
=> :any_string
```

---

# Symbols are like strings, but immutable

---

```
irb(main):010:0> puts "hello world".object_id
```

```
280
```

```
=> nil
```

```
irb(main):011:0> puts "hello world".object_id
```

```
880
```

```
=> nil
```

```
irb(main):012:0> puts : "hello world".object_id
```

```
628
```

```
=> nil
```

```
irb(main):013:0> puts : "hello world".object_id
```

```
628
```

```
=> nil
```

---

# When to use symbols?

---

- The string needn't be changed at runtime.
- The string doesn't need methods of class String.

```
irb(main):001:0> full_names = {  
irb(main):002:1* :marion => 'Marion Schleifer',  
irb(main):003:1* :fabian => 'Fabian Mettler',  
irb(main):004:1* :ferdinand => 'Ferdinand Niedermann',  
irb(main):005:1* :thomas => 'Thomas Ritter'  
irb(main):006:1> }  
  
=> {:marion=>"Marion Schleifer", :fabian=>"Fabian Mettler", :ferdinand=>"Ferdinand  
Niedermann", :thomas=>"Thomas Ritter"}  
  
irb(main):007:0> full_names[:marion]  
=> "Marion Schleifer"
```

---

# Ranges

---

---

# What are ranges?

---

- Set of values with a beginning and an end
  - Can be constructed with a type that are comparable with the  $\Leftrightarrow$  operator
    - i.e. integers, floats, doubles, strings etc.
-



# How to write a range?

---

- Range with numbers from 1 to 9:

```
irb(main):003:0> range = (1..9)
```

```
=> 1..9
```

- Range with numbers from 1 to 8:

```
irb(main):004:0> other_range = (1...9)
```

```
=> 1...9
```

---

# Methods on ranges

---

- begin

```
irb(main):006:0> range.begin
```

```
=> 1
```

- cover?

```
irb(main):007:0> letter_range = ("a".."z")
```

```
=> "a".."z"
```

```
irb(main):008:0> letter_range.cover?("c")
```

```
=> true
```

---

# Methods on ranges

---

- to\_a

```
irb(main):009:0> range = (1..9)
```

```
=> 1..9
```

```
irb(main):010:0> range.to_a
```

```
=> [1, 2, 3, 4, 5, 6, 7, 8, 9]
```

---

# Methods on ranges

---

- each

```
irb(main):009:0> range = (1..9)
```

```
=> 1..9
```

```
irb(main):020:0> range.each do |number|
```

```
irb(main):021:1*     puts number + 1
```

```
irb(main):022:1> end
```

```
2345678910
```

```
=> 1..9
```

---

# Documentation

---

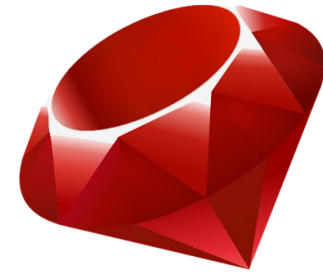
Check out the Ruby documentation for more range methods:

<http://ruby-doc.org/core-2.2.0/Range.html>

---

---

# Time to practice



---

Let's get to it!

---