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# Ruby Monstas



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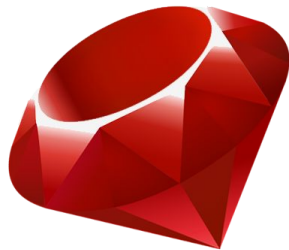
## Session 7

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# Agenda

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- Interactive Recap
- More on Strings
- Hashes
- Exercises



# String interpolation

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- Embedding variables in strings
  - `"The result is " + speed + " km/h"`
  - `"The result is #{speed} km/h"`

# String interpolation

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- Embedding expressions (any ruby code) in strings
  - `"The result is " + distance / time + " km/h"`
  - `"The result is #{distance / time} km/h"`

# Escape sequences

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<code>\n</code>	Newline
<code>\t</code>	Tab
<code>\a</code>	Alarm (Bell, Beep)
<code>\\</code>	Backslash
<code>\"</code>	Double quotation mark

# print

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- `print` is like `puts` without the newline!

```
irb(main):037:0> puts "Hello"
```

```
Hello
```

```
=> nil
```

```
irb(main):038:0> print "Hello"
```

```
Hello=> nil
```

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# Hashes

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## Introduction

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# Definition

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- Collection (like Array)
  - Dictionary
  - Consists of keys and values
  - {...}
-



# Creating Hashes

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- with “new”

```
irb(main):001:0> dictionary = Hash.new  
=> {}
```

- directly

```
irb(main):002:0> dictionary = {}  
=> {}
```

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# Define Keys and Values

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```
irb(main):010:0> grades = {"Luna" => 6}  
=> {"Luna"=>6}
```

# Add a Key-Value Pair to Hash

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```
irb(main):006:0> grades["Valerie"] = 5  
=> 5
```

```
irb(main):013:0> grades["Flavio"] = 5  
=> 5
```

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# Accessing a Value

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```
irb(main):012:0> grades["Luna"]  
=> 6
```

# Find Value

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- Method: `has_value?`

```
irb(main):022:0> grades.has_value?(5)  
=> true
```

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# Access Keys and Values

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```
irb(main):015:0> grades.keys  
=> ["Luna", "Valerie", "Flavio"]
```

```
irb(main):016:0> grades.values  
=> [6, 5, 5]
```

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# Delete from Hash

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- Method: delete

```
irb(main):018:0> grades.delete("Flavio")  
=> 5
```

```
irb(main):019:0> grades.keys  
=> ["Luna", "Valerie"]
```

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# More Hash Methods

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

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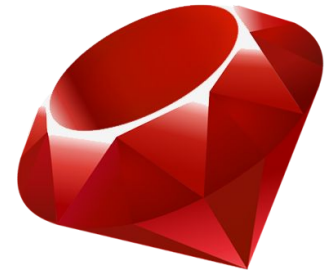
# Coming up

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- Boolean operators
  - Control structures
  - Functions
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# Time to practice



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Let's get to it!

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