

Strings

Strings in Ruby

- Strings are some of the most important building blocks in a software system.
- In Ruby, a string is a sequence of alphanumeric characters.
- Every string is an object of the class `String`.
- Unlike in some other languages like Java, in Ruby, strings are mutable.
- Being objects, strings have a lot of methods. Listing all of them doesn't worth it, but we'll do a review.
- We can get a string value from the user using `gets` and print any string using `puts` or `print` (as with any variable.)

How to use strings in Ruby?

- Printing a string directly (what's the difference between single and double quotes?)

```
puts "Any message you can imagine"
```

```
puts 'Any message you can imagine'
```

- Creating an empty string variable

```
my_variable = String.new
```

- Creating a string variable with an initial value

```
my_variable = "Any string you can imagine"
```

- Concatenating two strings

```
concat_message = "Hello, " + "stranger."
```

```
concat_message = "Hello, " + another_string_var
```

How to use strings in Ruby?

- String interpolation

```
name = "Kyle Broflovski"  
age = 10  
puts "Hi, I'm #{name} and I'm #{age} years old!"
```

- String replication

```
team = "player" * 11
```

- Escaping special characters

```
any_variable = "One line\nOther line\nA final line"
```

- Getting the string length (both instructions have the same result)

```
any_variable.size  
any_variable.length
```

How to use strings in Ruby?

- Getting a substring

```
a_string[1,3] # Gets three characters from the position 1
```

```
a_string[1..5] # Gets the characters between the positions 1 and 5
```

```
a_string[2..-2] # Gets all the characters from the position 2 but the last one
```

- Finding out if a string includes another string

```
a_string.include?("any characters")
```

```
a_string.index("any characters") # Returns where the included string appears
```

- Getting a string as its uppercase or as its lowercase

```
a_string.upcase
```

```
a_string.downcase
```

- Removing surrounding spaces from a string

```
a_string.strip # Removes all the surrounding spaces
```

```
a_string.lstrip # Removes spaces at the left
```

```
a_string.rstrip # Removes spaces at the right
```

How to use strings in Ruby?

- Splitting a string

```
a_string.split
```

```
a_string.split(",")
```

- Converting an array of strings (or characters) to a string

```
a_string = an_array.join
```

- Appending strings (to other strings)

```
a_string << string_to_append
```

- Reversing the order of a string

```
a_string.reverse
```

- Converting to other types (e.g., `to_i`, `to_f`)

Useful Resources

- String class documentation: <https://ruby-doc.org/3.2.2/String.html>



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Thanks! Any question?

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