

14.158 - Leaflet - Strings

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0.1 String methods

In this document I would like to give you a short overview of important string methods.

You can use the `.upper()` or `.lower()` method to ensure that all characters are displayed in upper and lower case:

```
In [1]: w ="Hello"
        print(w.upper())
        print("Hello".upper())
```

```
HELLO
HELLO
```

```
In [3]: w = "Hello"
        print(w.lower())
        print("Hello".lower())
```

```
hello
hello
```

With the `.startswith()` or `.endswith()` method you can check if a string starts / ends with another string:

```
In [5]: sentence = "Is the weather good today???"
```

```
if sentence.endswith("???"):
    print("The sentence ends with three question marks")

if sentence.startswith("Is"):
    print("The sentence begins with an 'is'")
```

```
The sentence ends with three question marks
The sentence begins with an 'is'
```

0.1.1 The .strip() method

By default, the `.strip()` method removes spaces from the beginning and end of the string:

```
In [6]: "Hello World.".strip()  
Out[6]: 'Hello World.'
```

You can also pass the `strip()` method as a parameter which characters should be removed. Here in the next examples we say, for example, that only underscores and dots should be removed.

The `.lstrip()` and `.rstrip()` methods work in the same way as the `.strip()` method, but `.lstrip()` only looks at the left side and `.rstrip()` only at the right side:

```
In [7]: word = "___Hello__"  
        print(word.strip("_."))  
        print(word.lstrip("_."))  
        print(word.rstrip("_."))  
  
        sentence = "Is the weather good today and tomorrow???"  
        print(sentence.rstrip("!?.,"))  
  
Hello  
Hello.__  
___Hello.  
Is the weather good today and tomorrow
```

0.1.2 The .find() method

With the `.find()` method you can find out where a character occurs in a string. For example, we can find out that the decimal point occurs at position 20.

If the `.find()` method returns the number -1, it means that the character does not appear in the string:

```
In [9]: sentence = "Is the weather good today and tomorrow???"  
        print(sentence.find("eat"))  
        print(sentence.find("!"))  
  
8  
-1
```

0.1.3 Replace characters (.replace())

You can use the `.replace()` method to perform a replacement. For example, you can replace the comma with a semicolon, etc.:

```
In [10]: sentence = "Is the weather good today, and tomorrow???"  
  
        print(sentence.replace(",",";"))  
        print(sentence.replace("oo", "00"))  
        print(sentence.replace("and", "or"))
```

Is the weather good today; and tomorrow???

Is the weather g00d today, and tomorrow???

Is the weather good today, or tomorrow???