

# 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???