

String

strings in Python are iterable, indexable and immutable (id)
`len(string)`
`string[start:end:step]` step can be negative

Conversion between string and list

<code>str()</code>	convert an object to a string
<code>string.split ("sep"; maxsplit =)</code>	split a string into a list of substrings. By default, it uses whitespace (spaces, tabs, and newlines) as the delimiter
<code>"sep".join(object)</code>	concatenate the elements of an iterable object into a string

- `join()` : If use join on a list with only numeric elements, `TypeError` because the `+` operator is not defined for combining a list and an integer

other functions

`['__add__', '__class__', '__contains__', '__delattr__', '__dir__', '__doc__', '__eq__', '__format__', '__ge__', '__getattr__', '__getitem__', '__getnewargs__', '__gt__', '__hash__', '__init__', '__init_subclass__', '__iter__', '__le__', '__len__', '__lt__', '__mod__', '__mul__', '__ne__', '__new__', '__reduce__', '__reduce_ex__', '__repr__', '__rmod__', '__rmul__', '__setattr__', '__sizeof__', '__str__', '__subclasshook__', 'capitalize', 'casefold', 'center', 'count', 'encode', 'endswith', 'expandtabs', 'find', 'format', 'format_map', 'index', 'isalnum', 'isalpha', 'isdecimal', 'isdigit', 'isidentifier', 'islower', 'isnumeric', 'isprintable', 'isspace', 'istitle', 'isupper', 'join', 'ljust', 'lower', 'lstrip', 'maketrans', 'partition', 'replace', 'rfind', 'rindex', 'rjust', 'rpartition', 'rsplit', 'rstrip', 'split', 'splitlines', 'startswith', 'strip', 'swapcase', 'title', 'translate', 'upper', 'zfill']`

The `dir()` function in Python returns all of the object's properties and methods, but not their values¹. When you call `dir(string)`, it returns a list of valid attributes and methods that can be used with the string object.

Operation in the strings

<code>string + string</code>	<code>string * int</code>
------------------------------	---------------------------

same to list, if string multiplied by negative numbers or zero, it returns a empty string. If string multiplied by floats, error

Common Functions

<code>str.replace(a, b)</code>	replace a by b in a string
<code>str.count(a)</code>	count the number of a in a string
<code>str.title()</code>	
<code>str.upper()</code>	
<code>str.lower()</code>	
<code>str.strip ("character")</code>	remove leading and trailing specific characters. By default, whitespaces (spaces, tab, newline)
<code>str.rstrip ("character")</code>	remove trailing specific character. By default, whitespaces
<code>str.lstrip ("character")</code>	remove leading specific character. By default, whitespaces
<code>str.isalpha()</code>	check whether all the characters in a string are alphabet. return True or False
<code>str.isnumeric()</code>	check whether all the characters in a string are numeric
<code>str.isdecimal()</code>	check whether all characters in a string are decimal digits (0-9)
<code>str.find("to_find")</code>	find the first occurrence of a specified substring within a string. It returns the index of the first character of the substring if found, and -1 if the substring is not present in the string

`str.startswith("...")`

`isnumeric()` checks for a broader range of numeric characters, including those from other scripts, while `isdecimal()` only recognizes decimal digits. **Neither method recognizes decimal numbers or fractions.**

Espace Sequence

<code>\n</code>	<code>\\</code>
-----------------	-----------------

<code>\t</code>	<code>\"</code>
-----------------	-----------------

<code>\'</code>	
-----------------	--

help us differentiate between characters that have a special meaning in the programming language and characters that are part of the string itself. If a string contain `\n` in the text, `\\n` to distinguish newline character and text `\n`. Except for `\'` and `\"`, we can also use single/double quote to distinguish quote in text. `\r` idem chapter 7



By **Theo666**

cheatography.com/theo666/

Published 29th September, 2023.

Last updated 30th September, 2023.

Page 2 of 2.

Sponsored by **ApolloPad.com**

Everyone has a novel in them. Finish Yours!

<https://apollopad.com>