

### 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

str() convert an object to a string

string.split("sep"; maxsplit = ) split a string into a list of substrings. By default, it uses whitespace (spaces, tabs, and newlines) as the delimiter

"sep".join(object) 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 values<sup>1</sup>. 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

string + string string \* int

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

### Common Functions

str.replace(a, b) replace a by b in a string

str.count(a) count the number of a in a string

str.title()

str.upper()

str.lower()

str.strip("character") remove leading and trailing specific characters. By default, whitespaces (spaces, tab, newline)

str.rstrip("character") remove trailing specific character. By default, whitespaces

str.lstrip("character") remove leading specific character. By default, whitespaces

str.isalpha() check whether all the characters in a string are alphabetic. return True or False

str.isnumeric() check whether all the characters in a string are numeric

str.isdecimal() check whether all characters in a string are decimal digits (0-9)

str.find("to\_find") 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.**



By Theo666

[cheatography.com/theo666/](https://cheatography.com/theo666/)

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### Espace Sequence

<code>\n</code>	<code>\\</code>
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<code>\t</code>	<code>\"</code>
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<code>\'</code>	
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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**

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