

### 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.**



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Published 29th September, 2023.

Last updated 30th September, 2023.

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### 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



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Published 29th September, 2023.  
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