

D02 Python 文字處理函數介紹



	>
重要知識點	>
判別字串是否為特定字元	>
isalnum()	>
isupper() / islower()	>

NLP自然語言學習實戰馬拉松

► Day2 - Python 文字處理函數介紹



重要知識點



- 延續 Day1 課程，了解如何使用 Python 做文字處理(String)

今天會介紹的 Functions



- 判斷字串中特定字符
- 字串格式化

判別字串是否為特定字元

- string.isnumeric()、string.isdigit()、string.isdecimal()
- 三者皆是用來判定字串內是否都屬於數值字元，差別主要在於unicode定義的區間不同，isdecimal() ⊆ isdigit() ⊆ isnumeric()

string = '3'

isnumeric	TRUE
isdecimal	TRUE
isdigit	TRUE

string = '9'

isnumeric	TRUE
isdecimal	False
isdigit	False

string = '03.8'

isnumeric	TRUE
isdecimal	False
isdigit	False

string = '2.345'

※因為不屬於numeric定義內字元，所以三者都返回False

isnumeric	False
isdecimal	False
isdigit	False

isalnum()

如果 string 至少有一個字符合所有字符合都是字母或數字則返回 True，否則返回 False，



```
isalnum()

In [9]: ## 如果string至少有一個字符合所有字符合都是字母或數字則返回True，否則返回False
        '23'.isalnum()
Out[9]: True

In [10]: '我要學python'.isalnum()
Out[10]: True

In [11]: ## 不要字母或數字
        '我要學python.'.isalnum()
Out[11]: False

In [12]: ## space 不要字母或數字
        '我要學python '.isalnum()
Out[12]: False
```

```
1 ## 如果string至少有一個字符合所有字符合都是字母或數字則返回True，否則返回False
2 '23'.isalnum()
3 '我要學python'.isalnum()
4 ## 不要字母或數字
5 '我要學python.'.isalnum()
6 ## space 不要字母或數字
7 '我要學python '.isalnum()
8
```

isupper() / islower()

判定字串內字元是否都為大寫/小寫

isupper() / islower()

```
In [13]: 'ABC'.isupper()
Out[13]: True

In [14]: 'ABC'.islower()
Out[14]: False

In [15]: 'Abc'.islower()
Out[15]: False
```

```
1 'ABC'.isupper()
2 'ABC'.islower()
3 'Abc'.islower()
4
```

常見字串操作整理

上方我們列出了常見的字符串判別函數，然而 python 支援更多的字串操作，學員們可以參考下方兩個網頁。

- 英文整理表格

Python MySQL

Python MongoDB

Python String Methods

Python MySQL

Python MongoDB

Python String Methods

Python has a set of built-in methods that you can use on strings.

Note: All string methods return new values. They do not change the original string.

Method	Description
capitalize()	Converts the first character to upper case
casefold()	Converts string into lower case
center()	Returns a centered string
count()	Returns the number of times a specified value occurs in a string
encode()	Returns an encoded version of the string

Python String Methods

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參考資料

Corey Schafer: String Formatting

Corey Schafer 講解 string formatting 的影片，深入並且容易理解，有興趣的學員們可參考



下一步：閱讀範例與完成作業