

# Python String Manipulation Examples: Search, Replace, Wrap Strings

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## 1 Strings

Go to the [RMD](#), [PDF](#), or [HTML](#) version of this file. Go back to [fan's Python Code Examples Repository](#) ([bookdown site](#)).

### 1.1 Search if Names Include Strings

Given a list of strings, loop but skip if string contains elements string list.

```
# define string
ls_st_ignore = ['abc', 'efg', 'xyz']
ls_st_loop = ['ab cefg sdf', '12345', 'xyz', 'abc xyz', 'good morning']

# zip and loop and replace
for st_loop in ls_st_loop:
    if sum([st_ignore in st_loop for st_ignore in ls_st_ignore]):
        print('skip:', st_loop)
    else:
        print('not skip:', st_loop)

## skip: ab cefg sdf
## not skip: 12345
## skip: xyz
## skip: abc xyz
## not skip: good morning
```

### 1.2 Replace a Set of Strings in String

Replace terms in string

```
# define string
st_full = """
abc is a great efg, probably xyz. Yes, xyz is great, like efg.
eft good, EFG capitalized, efg good again.
```

```

A B C or abc or ABC. Interesting xyz.
"""

# define new and old
ls_st_old = ['abc', 'efg', 'xyz']
ls_st_new = ['123', '456', '789']

# zip and loop and replace
for old, new in zip(ls_st_old, ls_st_new):
    st_full = st_full.replace(old, new)

# print
print(st_full)

##
## 123 is a great 456, probably 789. Yes, 789 is great, like 456.
## eft good, EFG capitalized, 456 good again.
## A B C or 123 or ABC. Interesting 789.

```

### 1.3 Wrap String with Fixed Width

Given a long string, wrap it into multiple lines with fixed width.

```

import textwrap

# A long Path
st_path = """
C:/Users/fan/Documents/Dropbox (UH-ECON)/Project Emily Minority Survey/EthLang/reg_lang_abi_cls_mino/ta
"""

# Wrap text with tight width
st_wrapped = textwrap.fill(st_path, width = 20)
print(st_wrapped)

## C:/Users/fan/Docume
## nts/Dropbox (UH-
## ECON)/Project Emily
## Minority Survey/EthL
## ang/reg_lang_abi_cls
## _mino/tab3_fm/attain
## _m_vs_f/tab3_mand_ta
## lk_m2c_hfracle02.tex

```

Combine Strings that are wrapped and not Wrapped

```

# Paths
st_path_a = "C:/Users/fan/Documents/Dropbox (UH-ECON)/Project Emily Minority Survey/EthLang/reg_lang_abi_cls_mino/ta
st_path_b = 'C:/Users/fan/R4Econ/support/development/fs_packaging.html'

# Combine Strings and Wrap
str_dc_records = 'First Path:'.upper() + '\n' + \
    textwrap.fill(st_path_a, width=25) + '\n\n' + \
    'Second Path:'.upper() + '\n' + \
    textwrap.fill(st_path_b, width=25)

```

```
# Print
print(str_dc_records)

## FIRST PATH:
## C:/Users/fan/Documents/Dr
## opbox (UH-ECON)/Project
## Emily Minority Survey/Eth
## Lang/reg_lang_abi_cls_min
## o/tab3_fm/attain_m_vs_f/t
## ab3_mand_talk_m2c_hfracle
## 02.tex
##
## SECOND PATH:
## C:/Users/fan/R4Econ/suppo
## rt/development/fs_packagi
## ng.html
```