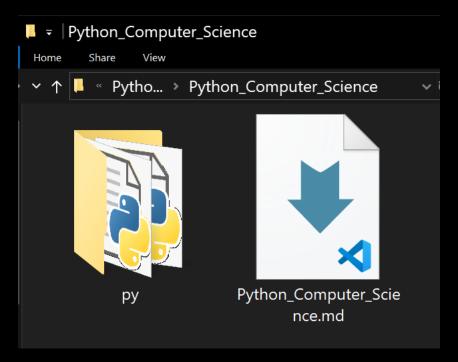
Python Computer Science by Christopher Andrew Topalian

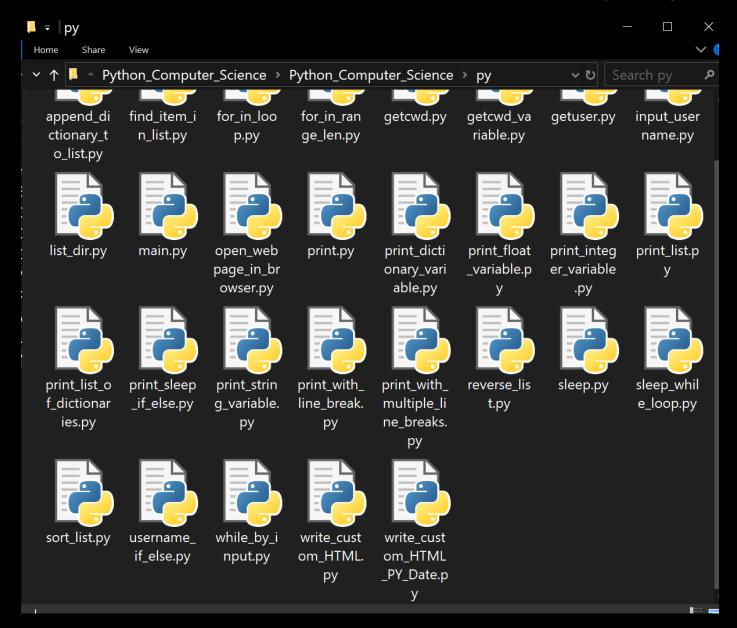
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Dedicated to God the Father



Here is our project folder.

We have our Python_Computer_Science.md file, that is our Table of Contents and it references scripts that are located in the folder named py



Here is our py folder of Python scripts.

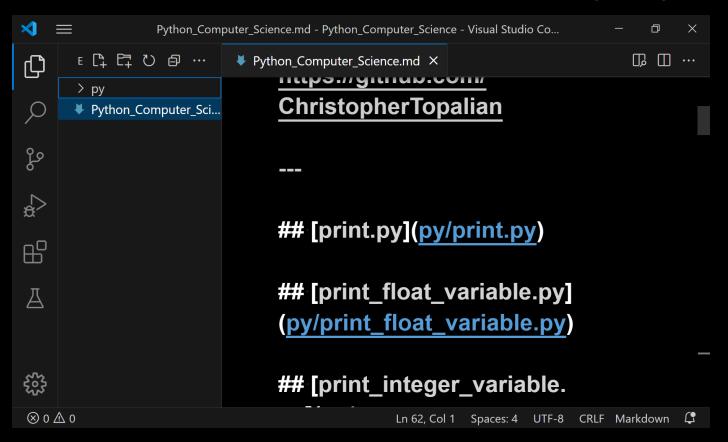
Our Markdown file is located outside of the py folder.

We can open the Python_Computer_Science.md file in VSCode and use the Preview feature.

The Python_Computer_Science.md file is a Table of Contents that is clickable, but of course we must have the Python scripts in the py folder for it to reference correctly.

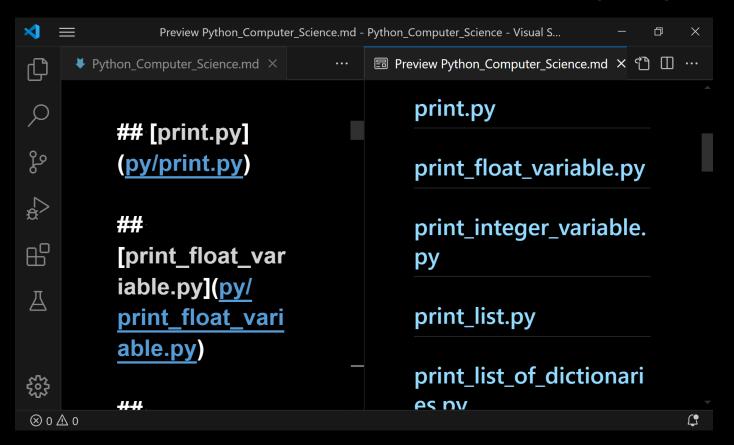
Important to note is that this also works on github! We can use the same reference structure so that people can have an easy time navigating our scripting project.

Happy Scripting :-)



Hold Control + Left Click on any link to open a script

OR Left click on the Preview Icon at the top right of the VSCode Window to enter Preview mode.

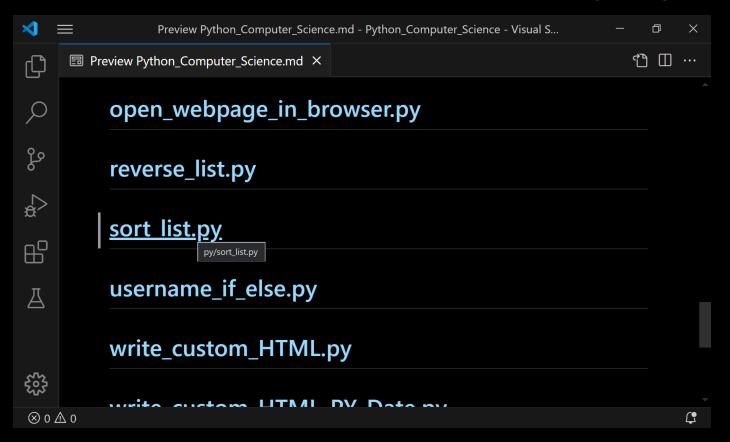


This shows our .md editable file on the left and the preview of the rendered markdown file on the right.

The right side can be left clicked on without having to hold down control.

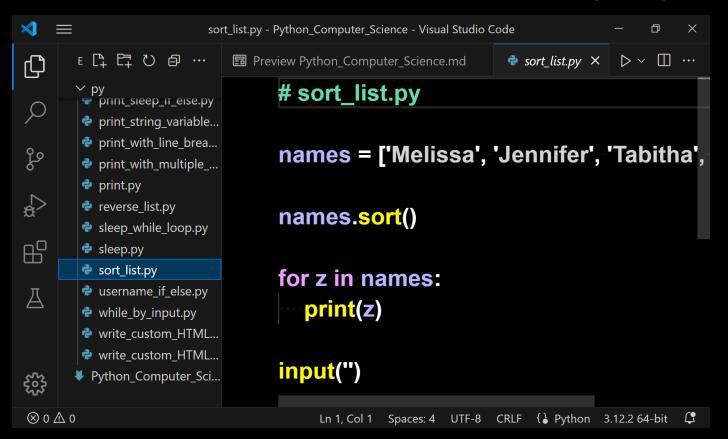


Control + Shift + V Full Preview of our Markdown file for easy navigation in our VSCode scripting project.



Let's say that we Left Click on the file named sort_list.py

Result is shown on the next page.



This opens our script in another tab and shows us which script in the folder is being worked on by highlighting the name of the script in the file explorer on the left side. This makes working on big projects very easy, because we are very organized.

```
<!-- Python Computer_Science.md -->
### Dedicated to God the Father
## Python_Computer_Science
All Rights Reserved Christopher Andrew
Topalian Copyright 2000-2024
https://github.com/ChristopherTopalian
## [print.py](py/print.py)
##
```

[print_float_variable.py](py/print_float_variabl

e.py)

```
[print_integer_variable.py](py/print_integer_v
ariable.py)
## [print_list.py](py/print_list.py)
[print_list_of_dictionaries.py](py/print_list_of
dictionaries.py)
[print_dictionary_variable.py](py/print_diction
nary variable.py)
[print_string_variable.py](py/print_string_vari
able.py)
```

```
[print_with_line_break.py](py/print_with_line_
break.py)
[print with multiple_line_breaks.py](py/print
_with_multiple_line_breaks.py)
## [sleep.py](py/sleep.py)
[sleep while loop.py](py/sleep while loop.p
y)
## [while_by_input.py](py/while_by_input.py)
```

```
[print_sleep_if_else.py](py/print_sleep_if_els
e.py)
[append_dictionary_to_list](py/append_dictio
nary to list.py)
##
[find_item_in_list.py](py/find_item_in_list.py)
## [for_in_loop.py](py/for_in_loop.py)
##
[for_in_range_len.py](py/for_in_range_len.py)
## [getcwd.py](py/getcwd.py)
```

```
## [getcwd_variable](py/getcwd_variable.py)
## [getuser.py](py/getuser.py)
[input_username.py](py/input_username.py)
## [list_dir.py](py/list_dir.py)
[open_webpage_in_browser.py](py/open_we
bpage_in_browser.py)
## [reverse_list.py](py/reverse_list.py)
## [sort_list.py](py/sort_list.py)
```

```
[username_if_else.py](py/username_if_else.p
y)
[write_custom_HTML.py](py/write_custom_H
TML.py)
[write_custom_HTML_PY_Date.py](py/write_c
ustom_HTML_PY_Date.py)
```

```
# append_dictionary_to_list.py
people = []
jane = {
  'name': 'Jane',
  'score': 98
people.append(jane)
print(people)
input(")
```

```
# find_item_in_list.py
ourNumbers = [
  4, 875, 23, 543, 12
numberToFind = 875
if (numberToFind in ourNumbers):
  print(f'Yes, {numberToFind} is there')
else:
  print(f'No, {numberToFind} is NOT there')
input(")
```

```
# for_in_loop.py
ourNumbers = [
    4, 875, 23, 543, 12
]

for z in ourNumbers:
    print(z)
input(")
```

```
# for_in_range_len.py
ourNumbers = [
    4, 875, 23, 543, 12
]

for z in range(len(ourNumbers)):
    print(ourNumbers[z])
input(")
```

getcwd.py

import os

print(os.getcwd())
input(")

getcwd_variable.py

import os

theCwd = os.getcwd()

print(theCwd)
input(")

getuser.py

import getpass

print(getpass.getuser())
input(")

```
# input_username.py
userName = input("Enter Username: ")
print("Username is: " + userName)
input(")
```

list_dir.py

import os

print(os.listdir())
input(")

open_webpage_in_browser.py

import webbrowser

webbrowser.open('https://github.com/ ChristopherTopalian') # print.py

print('Hi Everyone')
input(")

print_dictionary_variable.py

```
jane = {
    'name': 'Jane',
    'score': 98
}
print(jane)
input(")
```

print_float_variable.py

numberOfPeople = 20.82

print(numberOfPeople)
input(")

print_integer_variable.py

numberOfPeople = 20

print(numberOfPeople)
input(")

```
# print_list.py

people = [
    'Jane',
    'Tabitha',
    'Melissa'
]

print(people)
input(")
```

print_list_of_dictionaries.py

```
people = [
     'name': 'Jane',
     'score': 95
     'name': 'Melissa',
     'score': 98
     'name': 'Tabitha',
     'score': 93
```

print(people) input(")

```
# print_sleep_if_else.py
import time
print('Hi Friend')
time.sleep(3.0)
print('Is the sun shining?')
sunShining = input('y/n\n')
if (sunShining == 'y'):
  print('Nice that it is sunny out')
else:
  print('The sun will be there soon')
input(")
```

Christopher Topalian

print_string_variable.py
numberOfPeople = 'Twenty'
print(numberOfPeople)
input(")

print_with_line_break.py

print('Hi Everyone\nHappy Scripting')
input(")

print_with_multiple_line_breaks.py

print('Hi Everyone\n\nHappy Scripting')
input(")

```
# reverse_list.py
names = ['Jane', 'Jennifer', 'Melissa', 'Tabitha']
names.reverse()
for z in names:
    print(z)
```

input(")

sleep.py

import time

time.sleep(4.0)

print('4 seconds passed')
input(")

```
# sleep_while_loop.py
import time
x = 0
while x != 1:
  time.sleep(4.0)
  print('4 seconds passed')
input(")
```

```
# sort_list.py
names = ['Melissa', 'Jennifer', 'Tabitha', 'Jane']
names.sort()
for z in names:
  print(z)
input(")
# username_if_else.py
userName = input("Enter Username: ")
if (userName == 'Christopher'):
  print('Hi Christopher')
else:
```

print(f'Hi {userName}. Tell Christopher to sign in.')

input(")

```
# while_by_input.py
import time
x = input('Type 1 and press Enter\n')
while (x == '1'):
  time.sleep(4.0)
  print('4 seconds passed')
input(")
```

```
# write_custom_HTML.py
ourHTMLContent =
<html>
<head>
<title> Our HTML Page </title>
<style>
body
  padding: 10px;
  background-color: rgb(30, 30, 30);
  font-family: Arial;
  font-size: 20px;
  color: rgb(255, 255, 255);
```

```
</style>
</head>
<body>
<div> Hi Everyone </div>
</body>
</html>
with open('ourNewWebpage.html', 'w') as
theFile:
  theFile.write(ourHTMLContent)
```

```
# write_custom_HTML_PY_Date.py
```

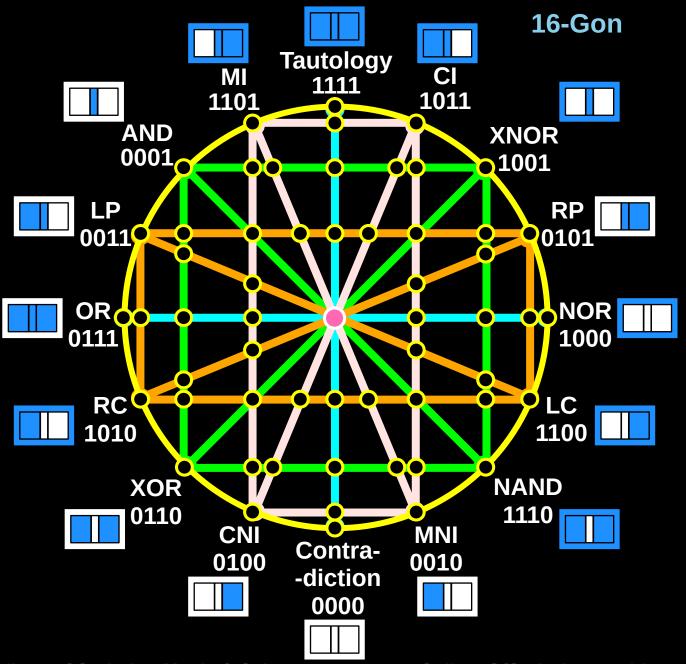
import datetime as dt

```
currentDate = dt.datetime.now().strftime('%Y-
%m-%d')
ourHTMLContent = f"""
<html>
<head>
<title> Our HTML Page </title>
<style>
body {{
  padding: 10px;
  background-color: rgb(30, 30, 30);
  font-family: Arial;
```

```
font-size: 20px;
  color: rgb(255, 255, 255);
}}
</style>
</head>
<body>
<div> Current Date: {currentDate} </div>
<div> Hi Everyone </div>
</body>
</html>
```

with open('ourNewWebpage.html', 'w') as theFile: theFile.write(ourHTMLContent)

True Artificial Intelligence System



For More Tutorials:

GitHub.com/ChristopherTopalian

GitHub.com/ChristopherAndrewTopalian

Sites.google.com/view/CollegeOfScripting

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CollegeOfScripting.wordpress.com

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Twitter.com/CollegeOfScript

Rumble.com/user/CollegeOfScripting

Dedicated to God the Father

This book is created by the College of Scripting Music & Science.

Always remember, that each time you write a script with a pencil and paper, it becomes imprinted so deeply in memory that the material and methods are learned extremely well.

When you Type the scripts, the same is true. The more you type and write out the scripts by keyboard or pencil and paper, the more you will learn programming!

Write and Type every example that you find. Keep all of your scripts organized. Every script that you create increases your programming abilities.

SEEING CODE, is one thing,

but WRITING CODE is another.

Write it, Type it, Speak it, See it, Dream it.

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