A Quick Simple Implementation of Python Automation

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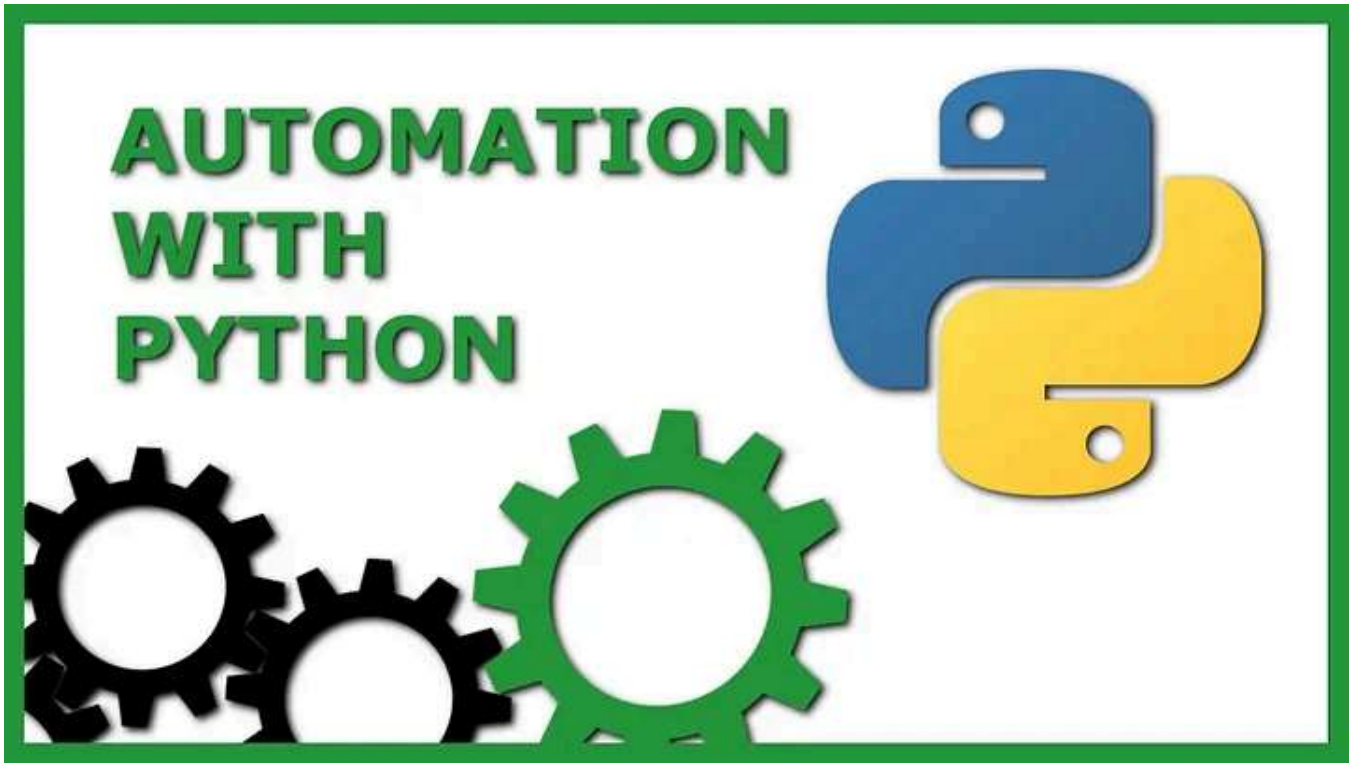

5 years ago when I didn't know programming, I was fed up doing boring stuff on my PC. Among them, organizing the download folder manually is on top. But later when I learned programming (especially python programming), I put this boring stuff on autopilot mode.

In this post, you are going to see a very simple python script that can make your download folder arranged.

Let's go!

main.py

```
import os
import move
from datetime import datetime


DIR = '/home/arif/Downloads/'

# all files in download folder
files_in_download_folders = os.listdir(DIR)

# moving
for single_file in files_in_download_folders:
    file_path = DIR + single_file

    if os.path.isfile(file_path):
        print("Moving ", single_file)

        move.move(single_file, file_path)

        print("Moved ", single_file)
```

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Above code loops through all the files of the download folder and moves them.

move.py

```python

import os
import shutil
import filetypecheck

SUB_DIR_LIST = {
    'DIR_PICS': '/home/arif/Downloads/Pics',
    'DIR_VIDS': '/home/arif/Downloads/Vids',
    'DIR_MP3s': '/home/arif/Downloads/MP3s',
    'DIR_EXCELS': '/home/arif/Downloads/Excels',
    'DIR_SQLS': '/home/arif/Downloads/Sqls',
    'DIR_TXTS': '/home/arif/Downloads/Txts'
}

def move(single_file, file_path):
    if filetypecheck.isImage(single_file):
        if not os.path.exists(SUB_DIR_LIST['DIR_PICS']):
            os.makedirs(SUB_DIR_LIST['DIR_PICS'])
        shutil.move(file_path, SUB_DIR_LIST['DIR_PICS'])

    if filetypecheck.isMovie(single_file):
        if not os.path.exists(SUB_DIR_LIST['DIR_VIDS']):
            os.makedirs(SUB_DIR_LIST['DIR_VIDS'])
```

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```python
            os.makedirs(SUB_DIR_LIST['DIR_EXCELS'])
        shutil.move(file_path, SUB_DIR_LIST['DIR_EXCELS'])

    if filetypecheck.isSql(single_file):
        if not os.path.exists(SUB_DIR_LIST['DIR_SQLS']):
            os.makedirs(SUB_DIR_LIST['DIR_SQLS'])
        shutil.move(file_path, SUB_DIR_LIST['DIR_SQLS'])

    if filetypecheck.isTxt(single_file):
        if not os.path.exists(SUB_DIR_LIST['DIR_TXTS']):
            os.makedirs(SUB_DIR_LIST['DIR_TXTS'])
        shutil.move(file_path, SUB_DIR_LIST['DIR_TXTS'])

    if filetypecheck.isMp3(single_file):
        if not os.path.exists(SUB_DIR_LIST['DIR_MP3s']):
            os.makedirs(SUB_DIR_LIST['DIR_MP3s'])
        shutil.move(file_path, SUB_DIR_LIST['DIR_MP3s'])
```

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move function checks the file type and sends the file to its corresponding folder (If the folder is not present, it will be created).

filetypecheck.py

```
1
2  def isImage(single_file):
3      if single_file.lower().endswith(('.jpg', '.gif', 'jepg', '.png')):
4          return True
5      return False
6
7  def isMovie(single_file):
8      if single_file.lower().endswith(('.flv', '.avi', 'mov', '.wmv', '.mp4', '.mkv')):
9          return True
10     return False
11
12 def isExcel(single_file):
13     if single_file.lower().endswith( ('.xls', '.xlt', 'xlsx', '.wmv', '.mp4') ):
14         return True
15     return False
16
17 def isSql(single_file):
18     if single_file.lower().endswith( ('.sql') ):
19         return True
20     return False
21
22 def isTxt(single_file):
23     if single_file.lower().endswith( ('.txt') ):
24         return True
25     return False
26
27 def isMp3(single_file):
28     if single_file.lower().endswith( ('.mp3') ):
29         return True
30     return False
```

filetypecheck.py hosted with ❤ by GitHub view raw

This file contains the functions that are responsible for checking the file type. If all goes fine, run **main.py**

> *Don't forget to change the paths according to your folder paths.*

```
python3 main.py
```