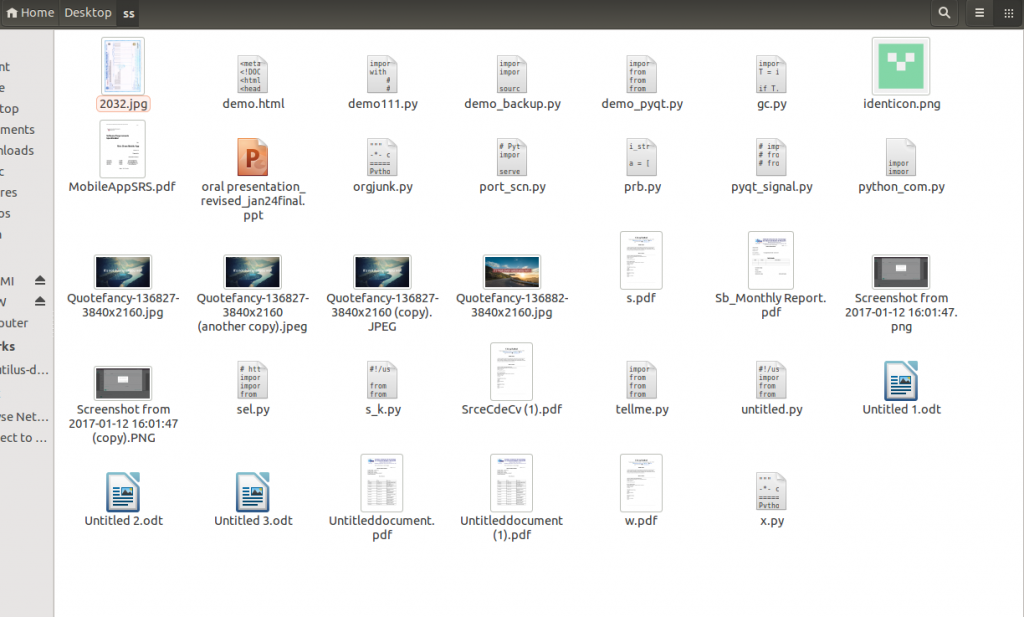
# **Junk File Organizer in Python**

* Difficulty Level : [Medium](https://www.geeksforgeeks.org/medium/)
* Last Updated : 10 Aug, 2021

Basically, as a lazy programmer, my desktop is full of files (Junk Files). Due to a large number of files, it is a daunting task to sit and organize each file. To make that task easy the below Python script comes in handy and all the files are organized in a well-manner within seconds.

**Screenshot before running the script**

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Following are the steps to be followed:

* **Create Dictionaries:** The code below will create the defined Directories.

DIRECTORIES = {

"HTML": [".html5", ".html", ".htm", ".xhtml"],

"IMAGES": [".jpeg", ".jpg", ".tiff", ".gif", ".bmp", ".png", ".bpg", "svg",

".heif", ".psd"],

"VIDEOS": [".avi", ".flv", ".wmv", ".mov", ".mp4", ".webm", ".vob", ".mng",

".qt", ".mpg", ".mpeg", ".3gp"],

"DOCUMENTS": [".oxps", ".epub", ".pages", ".docx", ".doc", ".fdf", ".ods",

".odt", ".pwi", ".xsn", ".xps", ".dotx", ".docm", ".dox",

".rvg", ".rtf", ".rtfd", ".wpd", ".xls", ".xlsx", ".ppt",

"pptx"],

"ARCHIVES": [".a", ".ar", ".cpio", ".iso", ".tar", ".gz", ".rz", ".7z",

".dmg", ".rar", ".xar", ".zip"],

"AUDIO": [".aac", ".aa", ".aac", ".dvf", ".m4a", ".m4b", ".m4p", ".mp3",

".msv", "ogg", "oga", ".raw", ".vox", ".wav", ".wma"],

"PLAINTEXT": [".txt", ".in", ".out"],

"PDF": [".pdf"],

"PYTHON": [".py"],

"XML": [".xml"],

"EXE": [".exe"],

"SHELL": [".sh"]

}

* **Mapping:** Now we will map the file formats with the directory.

FILE\_FORMATS = {file\_format: directory

for directory, file\_formats in DIRECTORIES.items()

for file\_format in file\_formats}

* Here, we map file extensions with the directory.

def organize\_junk():

for entry in os.scandir():

if entry.is\_dir():

continue

file\_path = Path(entry)

file\_format = file\_path.suffix.lower()

if file\_format in FILE\_FORMATS:

directory\_path = Path(FILE\_FORMATS[file\_format])

directory\_path.mkdir(exist\_ok=True)

file\_path.rename(directory\_path.joinpath(file\_path))

for dir in os.scandir():

try:

os.rmdir(dir)

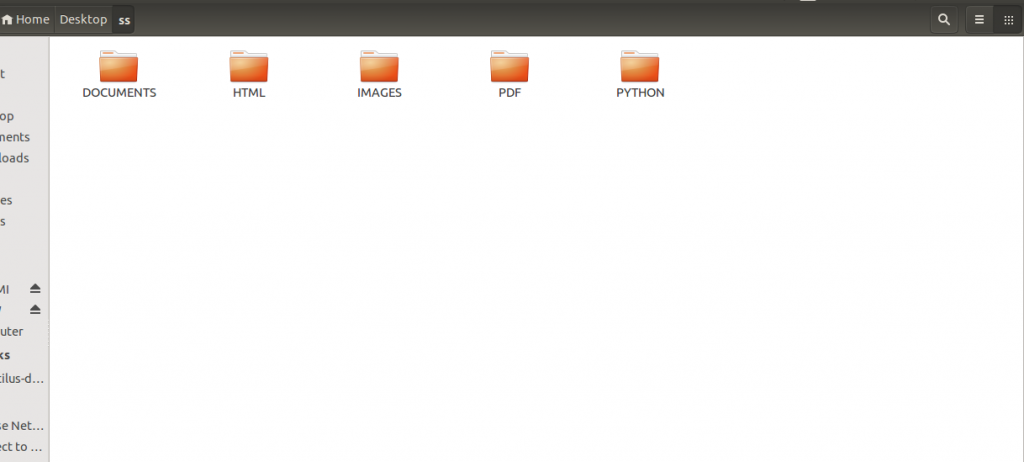
except:

pass

* The above function will check for the existing directory for the same name we defined. If the existing directory is found then it will continue or else a new directory is created. And it will categorize all the files based on the extension in the appropriate folder.
* **Organizing:** Following is the code for Python Lazy Junk Files Organizer. It will organize everything in the appropriate folder in a single go and remove empty directories.
* python

| import os  from pathlib import Path    DIRECTORIES = {  "HTML": [".html5", ".html", ".htm", ".xhtml"],  "IMAGES": [".jpeg", ".jpg", ".tiff", ".gif", ".bmp", ".png", ".bpg", "svg",  ".heif", ".psd"],  "VIDEOS": [".avi", ".flv", ".wmv", ".mov", ".mp4", ".webm", ".vob", ".mng",  ".qt", ".mpg", ".mpeg", ".3gp"],  "DOCUMENTS": [".oxps", ".epub", ".pages", ".docx", ".doc", ".fdf", ".ods",  ".odt", ".pwi", ".xsn", ".xps", ".dotx", ".docm", ".dox",  ".rvg", ".rtf", ".rtfd", ".wpd", ".xls", ".xlsx", ".ppt",  "pptx"],  "ARCHIVES": [".a", ".ar", ".cpio", ".iso", ".tar", ".gz", ".rz", ".7z",  ".dmg", ".rar", ".xar", ".zip"],  "AUDIO": [".aac", ".aa", ".aac", ".dvf", ".m4a", ".m4b", ".m4p", ".mp3",  ".msv", "ogg", "oga", ".raw", ".vox", ".wav", ".wma"],  "PLAINTEXT": [".txt", ".in", ".out"],  "PDF": [".pdf"],  "PYTHON": [".py"],  "XML": [".xml"],  "EXE": [".exe"],  "SHELL": [".sh"]    }    FILE\_FORMATS = {file\_format: directory  for directory, file\_formats in DIRECTORIES.items()  for file\_format in file\_formats}    def organize\_junk():  for entry in os.scandir():  if entry.is\_dir():  continue  file\_path = Path(entry)  file\_format = file\_path.suffix.lower()  if file\_format in FILE\_FORMATS:  directory\_path = Path(FILE\_FORMATS[file\_format])  directory\_path.mkdir(exist\_ok=True)  file\_path.rename(directory\_path.joinpath(file\_path))    for dir in os.scandir():  try:  os.rmdir(dir)  except:  pass    if \_\_name\_\_ == "\_\_main\_\_":  organize\_junk() |
| --- |

* Save the above script as [**orgjunk.py**](https://github.com/srcecde/lazy-junk-organizer). For example, you want to organize files at desktop then copy and paste the orgjunk.py at Desktop and run.



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