
User Guide: File Organizer Script

Overview

The **File Organizer** is a Python script that helps users automatically organize files in a selected directory into categorized subfolders:

- **Documents** (.pdf, .docx, .txt, etc.)
- **Images** (.jpg, .png, .gif, etc.)
- **Videos** (.mp4, .avi, .mkv, etc.)
- **Others** (Unrecognized file types)

It enhances productivity by decluttering folders and logging all actions for traceability.

Prerequisites

Make sure you have:

- **Python 3.6+** installed
 - Basic familiarity with running Python scripts
 - The required permissions to read/write in the target directory
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Folder Structure (Before and After)

Before Organization

/Downloads

- selfie.jpg
- movie.mp4
- notes.txt

After Organization

/Downloads

/Documents

- resume.pdf
- notes.txt

/Images

- selfie.jpg

/Videos

- movie.mp4
-

How to Use

Step 1: Clone or Download the Script

Save the `File_organizer.py` script on your local machine.

Step 2: Run the Script

1. Open **Command Prompt** or **Terminal**
2. Navigate to the directory where the script is saved
3. Run the script using:
`python File_organizer.py`
4. Input the full path of the folder you want to organize, for example:

Enter the full path of the folder to organize: C:\Users\YourName\Downloads

What the Script Does

- ✓ Scans all files in the target directory
 - ✓ Determines the file type based on its extension
 - ✓ Creates subfolders (`Documents`, `Images`, `Videos`, `Others`) if they don't exist
 - ✓ Moves files to their respective subfolders
 - ✓ Skips files already in the correct location
 - ✓ Logs actions and errors in `file_organizer.log`
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Log File

All activities are recorded in `File_organizer.log` in the script's directory. This includes:

- Files moved
- Skipped files
- Any errors encountered

Sample log entry:

2025-05-24 14:35:10 - INFO - Moved 'resume.pdf' to 'Documents'

Error Handling

The script is equipped with `try-except` blocks to handle common issues:

- Invalid directory path
 - Permission errors
 - File in use
 - Unexpected file system errors
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Testing

You can test the script by:

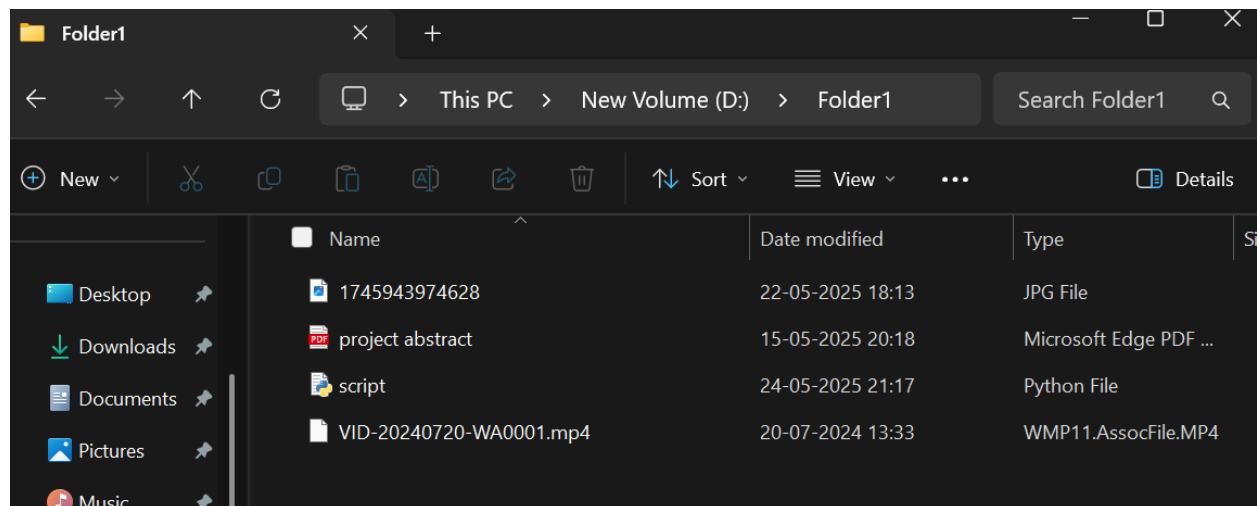
- Creating a folder with dummy files of various types
- Running the script and verifying that files are moved correctly
- Checking `File_organizer.log` for a complete record

Screenshots

Input File location with unorganized files

```
>>> ===== RESTART: C:/Users/dhanu/OneDrive/Desktop/File_organizer.py =====
❏ File Organizer Script
-----
Enter the full path of the folder to organize: |
```

Before Organizing Files



After Executing Python Script

```
>>> File Organizer Script
-----
Enter the full path of the folder to organize: D:\Folder1

Folder Organizing files in: D:\Folder1

[✓] Moved: 1745943974628.jpg → Images/
[✓] Moved: project abstract.pdf → Documents/
[✓] Moved: script.py → Others/
[✓] Moved: VID-20240720-WA0001.mp4 → Videos/

🌟 Organization complete.
```

Files Organized in respective folders

