

Forum:[Hack Forums](#)

Thread: [Python backup script If file is already in backup folder then do nothing.](#)

Dcayy - November 30, 2018, 1:00 am

Hello, guys. how can I compare all files in every dir and subdirs.

If any file from source dir is already in destination dir then don't backup it again just pass

I have made it now just to copy and paste every file from src to dest dirs every time when scripts is started

As example lets take these directories:

Source directory -> /root/\$USER/Desktop

Destination directory -> /root/\$USER/backup/Desktop

Skidsuper - November 30, 2018, 8:56 pm

If you are checking by simple filename you can raise exception if file exists by passing `os.O_EXCL` in your `open()` funtion.

See this for more info.

<https://stackoverflow.com/questions/30447221/copy-a-file-but-dont-overwrite-without-tocttou-issues-in-python>

caijad - November 30, 2018, 8:59 pm

(Nov 30, 2018 02:00 AM)Dcayy Wrote: [\[CITE\]](#) Hello, guys. how can I compare all files in every dir and subdirs.

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Code from os import listdir, getcwd, chdir, mkdir

from os.path import isdir, join

from shutil import copy2

from sys import platform

def get_first_root():

 return getcwd()

def create_folder(directory):

 try:

 mkdir(directory)

 except:

 pass

def get_name(directory):

 if platform == 'win32':

 return directory.split('\\')[-1]

 else:

 return directory.split('/')[-1]

def _directory_destiny(start, name):

```
return join(start,name)
```

```
def backup(start,directory_to_copy):
    name=get_name(directory_to_copy)
    root_with_directory=_directory_destiny(start,name)
    create_folder(root_with_directory)
    for file in listdir(directory_to_copy):
        chdir(root_with_directory)
        if isdir(join(directory_to_copy,file)):
            backup(root_with_directory,join(directory_to_copy,file))
        else:
            if file not in listdir(root_with_directory):
                copy2(join(directory_to_copy,file),root_with_directory)
            else:
                print('{} alredy exists'.format(join(directory_to_copy,file)))
```

I Hope that this work for you

Lycosidae024 - December 1, 2018, 2:37 am

Also, depending on how you are wanting to implement it, you can use someone similar to this which is pretty simple

Code import os

import shutil

/root/\$USER/Desktop

/root/\$USER/backup/Desktop

source_files = "/root/\$USER/Desktop"

destination_files = "/root/\$USER/backup/Desktop"

source_files_array = os.listdir(source_files)

destination_files_array = os.listdir(destination_files)

for item in source_files_array:

if not item in destination_files_array:

if os.path.isfile(source_files + "/" + item):

shutil.copy((source_files + "/" + item), destination_files + "/" + item)