

# Incremental Update

Nasy

Jul 26, 2017

## Aim

Compare the files in the two folders, the B folder than the A folder more files, put these files into a separate folder C. If files already in C folder, pass it.

## Why this

A friend of mine wants to do this.

## Algorithm

I think there is no algorithm here, only the nature and operation of the collection.

## Code

```
import os
import shutil

def incremental_update(a_folder_path: str,
                      b_folder_path: str,
                      c_folder_path: str) -> None:
    """Incremental update.

    Args:
        a_folder_path str: A folder path.
```

```

        b_folder_path str: B folder path.
        c_folder_path str: C folder path.

Return:
    None
"""
# Compare files between 3 folders.
c_files = (set(os.listdir(a_folder_path)) - set(os.listdir(b_folder_path))
           - set(os.listdir(c_folder_path)))

if not os.path.isdir(c_folder_path):
    os.mkdir(c_folder_path)

def _copy(f_path: str) -> None:
    """Copy file from B to C.

    Args:
        f_path: str. The file in B folder.
    """
    shutil.copy(
        os.path.join(b_folder_path, f_path),
        os.path.join(c_folder_path, f_path))

for f_path in c_files:
    _copy(f_path)

```