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import hashlib
import scipy
import matplotlib.pyplot as plt
%matplotlib inline
import time
import numpy as np

def file_hash(filepath):
    with open(filepath, 'rb') as f:
        return md5(f.read()).hexdigest()

import os

os.getcwd()

'/Users/sridhararunachalam/Desktop/MiniProject'

files_list = os.listdir()
print(len(files_list))

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import hashlib, os
duplicates = []
hash_keys = dict()
for index, filename in enumerate(os.listdir('.')): #listdir('.') = current directory
    if os.path.isfile(filename):
        with open(filename, 'rb') as f:
            filehash = hashlib.md5(f.read()).hexdigest()
            if filehash not in hash_keys:
                hash_keys[filehash] = index
            else:
                duplicates.append((index, hash_keys[filehash]))

duplicates

[(10, 1), (11, 7)]

for file_indexes in duplicates[:30]:
    try:
        a = plt.imread(files_list[file_indexes[1]])
        b = plt.imread(files_list[file_indexes[0]])
        plt.subplot(121), plt.imshow(a)
        plt.title(file_indexes[1], plt.xticks([]), plt.yticks([])

        plt.subplot(122), plt.imshow(b)
        plt.title(str(file_indexes[0]) + ' duplicate', plt.xticks([]), plt.yticks([])
        plt.show()

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        except OSError as e:
            continue

png
png
for index in duplicates:
    os.remove(files_list[index[0]])
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FileNotFoundError                                Traceback (most recent call last)

/var/folders/hb/fxb4rq1x5rb303y7zmkhpr100000gn/T/ipykernel_47470/295358519.py in <module>
      1 for index in duplicates:
----> 2     os.remove(files_list[index[0]])

FileNotFoundError: [Errno 2] No such file or directory: 'cherryBlossom copy'

```