mosaic

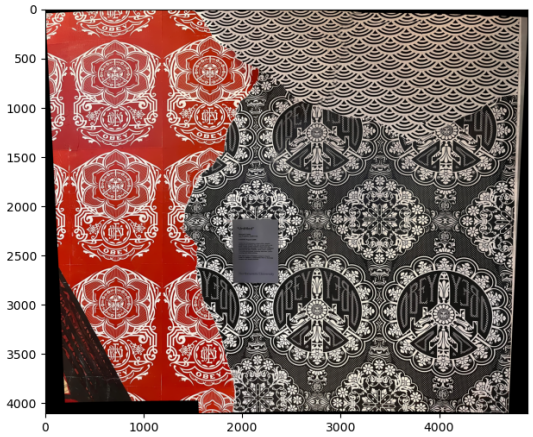
July 23, 2024

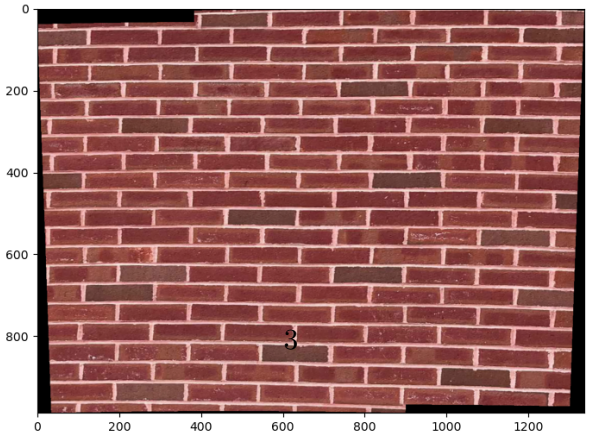
[ ]:

[2]:
```
import numpy as np
import cv2 as cv
import glob
import matplotlib.pyplot as plt

image_paths_LSC=glob.glob('/home/charlarthebar/laboratory_2024/week_1_Hw/
 ↪camera_calibration_photo_mosaic/Latin Student Center/*.jpg')
image_paths_IV15=glob.glob('/home/charlarthebar/laboratory_2024/week_1_Hw/
 ↪camera_calibration_photo_mosaic/International Village - 15 Percent Overlap/*.
 ↪jpg')
image_paths_IV50=glob.glob('/home/charlarthebar/laboratory_2024/week_1_Hw/
 ↪camera_calibration_photo_mosaic/International Village - 50 Percent Overlap/*.
 ↪jpg')
image_paths_brick=glob.glob('/home/charlarthebar/laboratory_2024/week_1_Hw/
 ↪camera_calibration_photo_mosaic/Brick/*.jpg')
image_paths=[image_paths_LSC, image_paths_IV15, image_paths_IV50,␣
 ↪image_paths_brick]

for path in image_paths:
    path = path.sort()

fig, ax=plt.subplots(nrows=4, ncols=1)
for image_path,a in zip(image_paths,ax.flatten()):
    imgs = []
    for file in image_path:
        img=cv.imread(file)
        img=cv.cvtColor(img, cv.COLOR_BGR2RGB)
        imgs.append(img)
    stitchy=cv.Stitcher.create()
    stitchy.setPanoConfidenceThresh(0.85)
    (status,output)=stitchy.stitch(imgs)
    if status == cv.STITCHER_OK:
        print("Successful")
        a.imshow(output)
    else:
```

```
        print("Fail")
fig.set_size_inches(14,28)
```

```
Successful
Successful
Successful
Successful
```




3

[ ]: