

LAPORAN

Laporan Pemrosesan Paralel (5)



Disusun oleh:

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PROGRAM STUDI SISTEM KOMPUTER

FAKULTAS ILMU KOMPUTER

UNIVERSITAS SRIWIJAYA

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A. INSTALL PACKAGES YANG AKAN DI GUNAKAN

1. Menginstal imutils

Untuk menginstall library tersebut gunakan perintah berikut

```
Pip3 install imutils
```

```
root@nadila-VirtualBox:/home/nadila# pip3 install imutils
Requirement already satisfied: imutils in /usr/local/lib/python3.10/dist-packages (0.5.4)
WARNING: Running pip as the 'root' user can result in broken permissions and conflicting behaviour with the system package manager. It is recommended to use a virtual environment instead: https://pip.pypa.io/warnings/venv
```

Jika sudah di install maka tampilannya akan seperti gambar di atas.

2. Menginstall opencv

```
Pip3 install opencv-python
```

```
root@nadila-VirtualBox:/home/nadila# pip3 install opencv-python
Requirement already satisfied: opencv-python in /usr/local/lib/python3.10/dist-packages (4.8.1.78)
Requirement already satisfied: numpy>=1.19.3 in /usr/local/lib/python3.10/dist-packages (from opencv-python) (1.26.2)
WARNING: Running pip as the 'root' user can result in broken permissions and conflicting behaviour with the system package manager. It is recommended to use a virtual environment instead: https://pip.pypa.io/warnings/venv
root@nadila-VirtualBox:/home/nadila# pip3 install matplotlib
ERROR: Could not find a version that satisfies the requirement matplotlib (from versions: none)
ERROR: No matching distribution found for matplotlib
```

Jika sudah di install maka tampilannya akan seperti gambar di atas.

3. Menginstall matplotlib

```
Pip3 install matplotlib
```

```
root@nadila-VirtualBox:/home/nadila# pip3 install matplotlib
Requirement already satisfied: matplotlib in /usr/local/lib/python3.10/dist-packages (3.8.1)
Requirement already satisfied: packaging>=20.0 in /usr/lib/python3/dist-packages (from matplotlib) (21.3)
```

Jika sudah di install maka tampilannya akan seperti gambar di atas.

B. EKSEKUSI IMAGES STITCHING

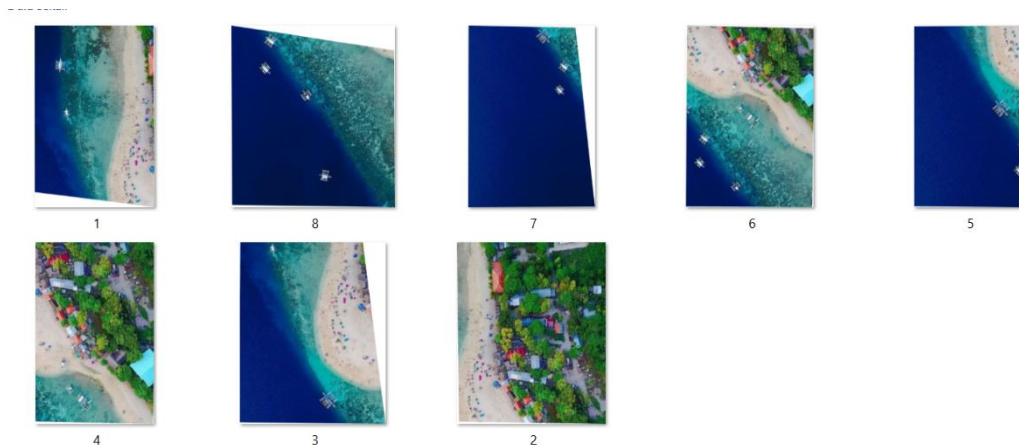
1. Masuk ke dalam direktori yang berisi codingan image stitching dan di dalamnya terdapat direktory image yang akan di gabungkan

```

root@nadila-VirtualBox:/home/nadila/Unduhan/image-stitching-opencv Tugas Besar#
ls -l
total 127448
-rw-r--r-- 1 nadila nadila 646072 Jul 9 2019 belitung.png
drwxr-xr-x 3 nadila nadila 4096 Nov 13 10:22 images
-rw-r--r-- 1 nadila nadila 1552 Dec 14 2018 image_stitching_simple.py
-rw-r--r-- 1 nadila nadila 128619491 Jul 5 2019 output.png
-rw-rw-r-- 1 nadila nadila 166 Mei 20 2019 'perintah terminal'
-rw-r--r-- 1 root root 648538 Nov 16 14:45 pp.png
-rw-r--r-- 1 root root 571183 Nov 16 14:46 Stitched_screenshot_16.11.202
3.png
root@nadila-VirtualBox:/home/nadila/Unduhan/image-stitching-opencv Tugas Besar#

```

Direktori images yang akan di gabungkan :



2. Codingan yang di gunakan dalam stitching

```

root@nadila-VirtualBox: /home/nadila/Unduhan/image-stitching-opencv Tugas Besar — □ ×
Berkas  Sunting  Tampilan  Cari  Terminal  Bantuan
GNU nano 6.2  image_stitching_simple.py
# USAGE
# python image_stitching_simple.py --images images/scottsdale --output output.p

# import the necessary packages
from imutils import paths
import numpy as np
import argparse
import imutils
import cv2

# construct the argument parser and parse the arguments
ap = argparse.ArgumentParser()
ap.add_argument("-i", "--images", type=str, required=True,
    help="path to input directory of images to stitch")
ap.add_argument("-o", "--output", type=str, required=True,
    help="path to the output image")
args = vars(ap.parse_args())

# grab the paths to the input images and initialize our images list
print("[INFO] loading images...")

```

```
root@nadila-VirtualBox: /home/nadila/Unduhan/image-stitching-opencv Tugas Besar — □ ×
Berkas Sunting Tampilan Cari Terminal Bantuan
GNU nano 6.2 image_stitching_simple.py
help="path to the output image")
args = vars(ap.parse_args())

# grab the paths to the input images and initialize our images list
print("[INFO] loading images...")
imagePaths = sorted(list(paths.list_images(args["images"])))
images = []

# loop over the image paths, load each one, and add them to our
# images to stitch list
for imagePath in imagePaths:
    image = cv2.imread(imagePath)
    images.append(image)

# initialize OpenCV's image sticher object and then perform the image
# stitching
print("[INFO] stitching images...")
stitcher = cv2.createStitcher() if imutils.is_cv3() else cv2.Stitcher_create()
(status, stitched) = stitcher.stitch(images)

^G Bantuan ^O Tulis ^W Cari ^K Potong ^T Jalankan ^C Lokasi
^X Keluar ^R Baca ^\ Ganti ^U Tempel ^J Ratakan ^_ Ke Baris
```

```
root@nadila-VirtualBox: /home/nadila/Unduhan/image-stitching-opencv Tugas Besar — □ ×
Berkas Sunting Tampilan Cari Terminal Bantuan
GNU nano 6.2 image_stitching_simple.py
# stitching
print("[INFO] stitching images...")
stitcher = cv2.createStitcher() if imutils.is_cv3() else cv2.Stitcher_create()
(status, stitched) = stitcher.stitch(images)

# if the status is '0', then OpenCV successfully performed image
# stitching
if status == 0:
    # write the output stitched image to disk
    cv2.imwrite(args["output"], stitched)

    # display the output stitched image to our screen
    cv2.imshow("Stitched", stitched)
    cv2.waitKey(0)

# otherwise the stitching failed, likely due to not enough keypoints)
# being detected
else:
    print("[INFO] image stitching failed ({})".format(status))

```

3. Kemudian masukkan perintah di bawah ini untuk mengeksekusinya

```
Python3 image_stitching_simple.py --images
images/scottsdale --output output.png
```

dan akan muncul gambar seperti di bawah ini :

