LAPORAN EKSEKUSI IMAGE STITCHING



Disusun Oleh:

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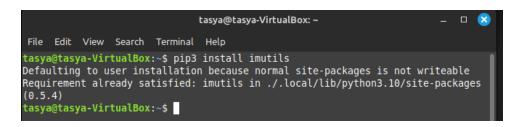
A. INSTALL PACKAGES YANG DIPERLUKAN

Untuk melakukan image stiching perlu menginstall beberapa packages

1. Install Imutils

Install imutils menggunakan perintah sebagai berikut:

Pip3 install imutils



2. Install opency-python

Install opency-python menggunakan perintah sebagai berikut:

Pip3 install opency-python

3. Install Matplotlib

Install matplotlib menggunakan perintah sebagai berikut:

Pip3 install matplotlib

```
tasya@tasya-VirtualBox:~$ pip3 install matplotlib

Defaulting to user installation because normal site-packages is not writeable

Collecting matplotlib

Downloading matplotlib-3.8.1-cp310-cp310-manylinux_2_17_x86_64.manylinux2014_x

86_64.whl (11.6 MB)

Requirement already satisfied: pillow>=8 in /usr/lib/python3/dist-packages (from matplotlib) (9.0.1)

Requirement already satisfied: pyparsing>=2.3.1 in /usr/lib/python3/dist-package s (from matplotlib) (2.4.7)

Collecting contourpy>=1.0.1

Downloading contourpy-1.2.0-cp310-cp310-manylinux_2_17_x86_64.manylinux2014_x8
```

```
tasya@tasya-VirtualBox: ~/Downloads/image-stitching-opencv Tugas Besar _
     Edit View Search Terminal Help
Requirement already satisfied: pillow>=8 in /usr/lib/python3/dist-packages (from
matplotlib) (9.0.1)
Requirement already satisfied: pyparsing>=2.3.1 in /usr/lib/python3/dist-package s (from matplotlib) (2.4.7)
Collecting contourpy>=1.0.1
  Downloading contourpy-1.2.0-cp310-cp310-manylinux 2 17 x86 64.manylinux2014 x8
 64.whl (310 kB)
Collecting fonttools>=4.22.0
Downloading fonttools-4.44.0-cp310-cp310-manylinux_2_17_x86_64.manylinux2014_x86_64.whl (4.5 MB)
Requirement already satisfied: numpy<2,>=1.21 in ./.local/lib/python3.10/site-pa ckages (from matplotlib) (1.26.1)
Requirement already satisfied: packaging>=20.0 in /usr/lib/python3/dist-packages
 (from matplotlib) (21.3)
Collecting python-dateutil>=2.7
  Downloading python dateutil-2.8.2-py2.py3-none-any.whl (247 kB)
                                                                           eta 0:00:00
Collecting cycler>=0.10
  Downloading cycler-0.12.1-py3-none-any.whl (8.3 kB)
Collecting kiwisolver>=1.3.1
  Downloading kiwisolver-1.4.5-cp310-cp310-manylinux 2 12 x86 64.manylinux2010 x
86 64.whl (1.6 MB)
```

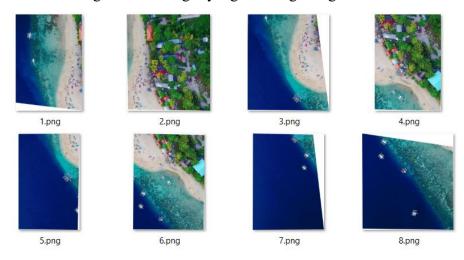
B. EKSEKUSI IMAGE STITCHING

1. Masuk ke dalam direktori yang berisi kodingan image stitching dan terdapat sebuah direktori yang berisi image yang akan digabungkan.

```
tasya@tasya-VirtualBox:~/Downloads/image-stitching-opencv Tugas Besar$ ls -l total 126256
-rw-r--r-- 1 tasya tasya 646072 Jul 9 2019 belitung.png
drwxr-xr-x 3 tasya tasya 4096 Nov 13 10:22 images
-rw-r--r-- 1 tasya tasya 1552 Dec 14 2018 image_stitching_simple.py
-rw-r--r-- 1 tasya tasya 128619491 Jul 5 2019 output.png
-rw-rw-r-- 1 tasya tasya 166 May 20 2019 'perintah terminal'
tasya@tasya-VirtualBox:~/Downloads/image-stitching-opencv Tugas Besar$
```

Image_stitching_simple.py merupakan program yang akan digunakan untuk mengeksekusi image stitching.

Direktori /images berisi images yang akan digabungkan:



2. Program yang digunakan

3. Lakukan perintah berikut untuk memngeksekusi

```
Python3 image_stitching_simple.py -image
<direktori_gambar_yang_akan_disatukan> --
output<nama_file_output>
```

Sesuaikan dengan program yang akan dijalankan:

Python3 image_stitching_simple.py -images images/scottslade -output coba.png

```
tasya@tasya-VirtualBox: ~/Downloads/image-stitching-opencv Tugas Besar — □ 🗴

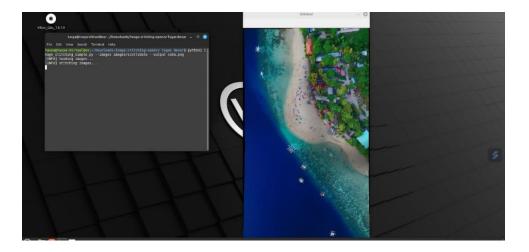
File Edit View Search Terminal Help

tasya@tasya-VirtualBox: ~/Downloads/image-stitching-opencv Tugas Besar$ python3 i |
mage stitching_simple.py --images images/scottsdale --output coba.png

[INFO] loading images...

[INFO] stitching images...
```

Output:



Output akan otomatis tersimpan di dalam direktori dengan nama file yang telah ditentukan di dalam perintah eksekusi.

```
tasya@tasya-VirtualBox:~/Downloads/image-stitching-opencv Tugas Besar$ ls -l total 126892
-rw-r--r-- 1 tasya tasya 646072 Jul 9 2019 belitung.png
-rw-rw-r-- 1 tasya tasya 648538 Nov 16 14:49 coba.png
drwxr-xr-x 3 tasya tasya 4096 Nov 13 10:22 images
-rw-r--r-- 1 tasya tasya 1552 Dec 14 2018 image_stitching_simple.py
-rw-r--r-- 1 tasya tasya 128619491 Jul 5 2019 output.png
-rw-rw-r-- 1 tasya tasya 166 May 20 2019 'perintah terminal'
tasya@tasya-VirtualBox:~/Downloads/image-stitching-opencv Tugas Besar$
```