

SIMPLE IMAGE OPERATIONS WEEK 3



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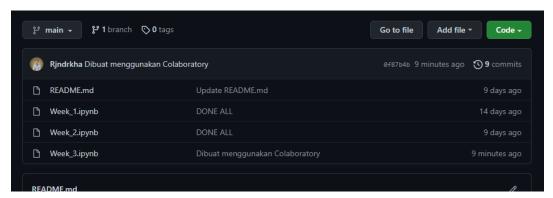
(1941720080/21)

PROGRAM STUDI D-IV TEKNIK INFORMATIKA

JURUSAN TEKNOLOGI INFORMASI

POLITEKNIK NEGERI MALANG

1. Create New Google Collab & Save To github

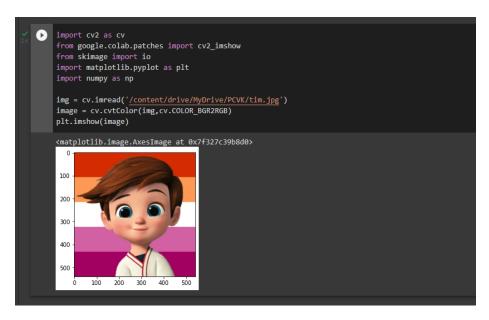


https://github.com/Rjndrkha/PCVK Genap 2022

2. Access Image Folder on Google Drive



3. Display Image from Drive



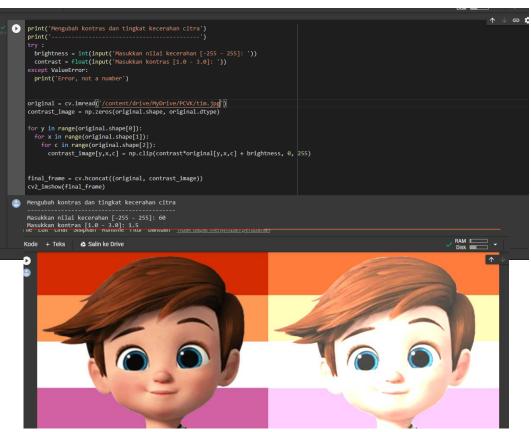


4. Adjust Image Brightness level to 50



TASK

1. Contrast Image Transformatian result



2. Log Transformation

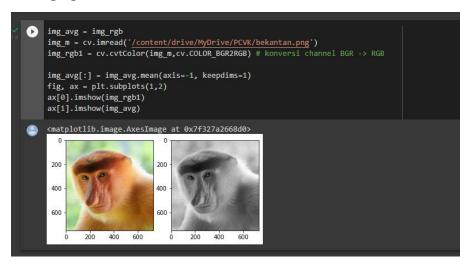
```
print('Mengubah tingkat kecerahan citra dengan Transformasi Log')
 print('
   brightness = int(input('Masukkan nilai kecerahan: '))
 except ValueError:
 original = cv.imread( \cite{"./content/drive/MyDrive/PCVK/tim.jpg"}) brightness\_image = np.zeros(original.shape, original.dtype) \\
 for y in range(original.shape[0]):
   for x in range(original.shape[1]):
   for c in range(original.shape[2]):
    brightness_image[y,x,c] = np.clip(brightness * (np.log(1 + original[y,x,c])), 0, 255)
 final_frame = cv.hconcat((original, brightness_image))
 cv2_imshow(final_frame)
Mengubah tingkat kecerahan citra dengan Transformasi Log
```

3. Displaying Image



4. Grayscale Imgage Averaging method

A. Averaging



B. Lightness



C. Luminance



D. Image Transform With Custom color selection

