

Dhanush0143 / erosion--dilation

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main · erosion--dilation / README.md

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60 lines (49 loc) · 1.6 KB

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Implementation-of-Erosion-and-Dilation

Aim

To implement Erosion and Dilation using Python and OpenCV.

Software Required

1. Anaconda - Python 3.7
2. OpenCV

Algorithm:

Step1:

import the neccesary packages

Step2:

Create the text using cv2.putText

Step3:

create the structuring element

Step4:

Erode the image

Step5:

Dilate the image

Program:

```
import numpy as np
import cv2
import matplotlib.pyplot as plt
def load_image():
    blank_image = np.zeros((600,600))
    font = cv2.FONT_HERSHEY_SIMPLEX
    cv2.putText(blank_image, text='ARAVIND', org=(600,800), fontFace=font, fontScale=1, color=(0,0,255), thickness=2)
    return blank_image
def display_img(img):
    fig = plt.figure(figsize=(12,10))
    ax=fig.add_subplot(111)
    ax.imshow(img,cmap='gray')
    plt.show()
img=load_image()
display_img(img)
kernel=np.ones((5,5),dtype=np.uint8)
erosion = cv2.erode(img,kernel,iterations = 2)
display_img(erosion)
dilution=cv2.dilate(img,kernel,iterations=2)
display_img(dilution)
```

Output:

Display the input Image



Display the Eroded Image



Display the Dilated Image



Result

Thus the generated text image is eroded and dilated using python and OpenCV.