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import cv2

import numpy as np


# Load the original color image

image = cv2.imread(r"C:\Users\SAIL\Downloads\CV\garden.jpg") # Replace with your image path

if image is None:

    print("Error: Image not found or path is incorrect.")

    exit()


# Define the kernel (structuring element)

kernel = np.ones((5, 5), np.uint8)


# Split the color image into its Blue, Green, and Red components

b, g, r = cv2.split(image)


# Apply morphological Closing (dilation followed by erosion) on each channel

b_closed = cv2.morphologyEx(b, cv2.MORPH_CLOSE, kernel)

g_closed = cv2.morphologyEx(g, cv2.MORPH_CLOSE, kernel)

r_closed = cv2.morphologyEx(r, cv2.MORPH_CLOSE, kernel)


# Merge the processed channels back into a color image

closed_color = cv2.merge((b_closed, g_closed, r_closed))


# Display original and closed images

cv2.imshow('Original Color Image', image)

cv2.imshow('Morphological Closing (Color)', closed_color)
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`cv2.waitKey(0)`

`cv2.destroyAllWindows()`

