```
import cv2
import numpy as np
# Load the original color image
image = cv2.imread(r"C:\Users\SAIL\Downloads\CV\beeflower.jpg") # Replace with your image file
if image is None:
     print("Error: Image not found or path is incorrect.")
     exit()
# Define a kernel (structuring element)
kernel = np.ones((5, 5), np.uint8)
# Apply Top-hat operation to each color channel
b, g, r = cv2.split(image)
b_tophat = cv2.morphologyEx(b, cv2.MORPH_TOPHAT, kernel)
g_tophat = cv2.morphologyEx(g, cv2.MORPH_TOPHAT, kernel)
r_tophat = cv2.morphologyEx(r, cv2.MORPH_TOPHAT, kernel)
# Merge the processed channels back into a color image
tophat_color = cv2.merge((b_tophat, g_tophat, r_tophat))
# Show original and Top-hat result
cv2.imshow('Original Color Image', image)
cv2.imshow('Top-hat (Color)', tophat_color)
cv2.waitKey(0)
```

## cv2.destroyAllWindows()

