

```

import cv2
img=cv2.imread('/content/TELETUBBIE.jfif')
img

array([[245, 243, 242],
       [245, 243, 242],
       [245, 243, 242],
       ...,
       [250, 246, 245],
       [248, 246, 246],
       [248, 246, 246]],

       [[245, 243, 242],
       [245, 243, 242],
       [245, 243, 242],
       ...,
       [250, 246, 245],
       [248, 246, 246],
       [248, 246, 246]],

       [[246, 244, 243],
       [246, 244, 243],
       [246, 244, 243],
       ...,
       [250, 246, 245],
       [248, 246, 245],
       [248, 246, 245]],

       ...,

       [[ 98, 143, 100],
       [ 98, 142, 101],
       [102, 147, 108],
       ...,
       [101, 145, 109],
       [ 94, 137, 104],
       [ 94, 137, 104]],

       [[ 98, 143, 100],
       [ 98, 142, 101],
       [102, 146, 109],
       ...,
       [ 98, 142, 106],
       [ 87, 129, 94],
       [ 87, 129, 94]],

       [[104, 149, 106],
       [102, 146, 105],
       [105, 149, 112],
       ...,
       [100, 144, 108],
       [ 98, 138, 103],
       [ 98, 138, 103]]], dtype=uint8)

#rgb
img.shape

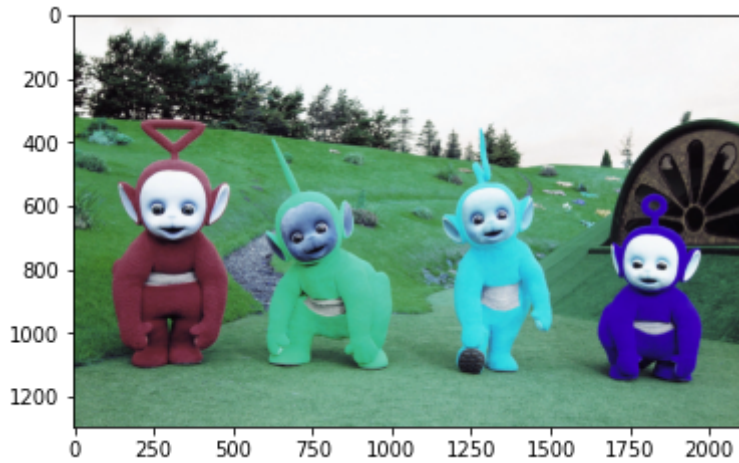
(1294, 2114, 3)

```

```
import matplotlib.pyplot as plt
import cv2
```

```
plt.imshow(img)
```

```
<matplotlib.image.AxesImage at 0x7f71cf6f34d0>
```



```
#BGR INTO RGB
```

```
rev_image=img[:,::-1]
```

```
rev_image
```

```
array([[ [242, 243, 245],
        [242, 243, 245],
        [242, 243, 245],
        ...,
        [245, 246, 250],
        [246, 246, 248],
        [246, 246, 248]],

       [ [242, 243, 245],
        [242, 243, 245],
        [242, 243, 245],
        ...,
        [245, 246, 250],
        [246, 246, 248],
        [246, 246, 248]],

       [ [243, 244, 246],
        [243, 244, 246],
        [243, 244, 246],
        ...,
        [245, 246, 250],
        [245, 246, 248],
        [245, 246, 248]],

       ...,

       [ [100, 143, 98],
        [101, 142, 98],
        [108, 147, 102],
        ...,
        [109, 145, 101],
```

```

[104, 137, 94],
[104, 137, 94]],

[[100, 143, 98],
[101, 142, 98],
[109, 146, 102],
...,
[106, 142, 98],
[ 94, 129, 87],
[ 94, 129, 87]],

[[106, 149, 104],
[105, 146, 102],
[112, 149, 105],
...,
[108, 144, 100],
[103, 138, 98],
[103, 138, 98]]], dtype=uint8)

```

```

def show_image(img_arr):
    rgb_arr=cv2.cvtColor(img_arr,cv2.COLOR_BGR2RGB)
    plt.imshow(rgb_arr)
    plt.axis(False)

```

```

gray_img=cv2.cvtColor(img,cv2.COLOR_BGR2GRAY)
show_image(gray_img)

```



```
gray_img
```

```

array([[243, 243, 243, ..., 246, 246, 246],
       [243, 243, 243, ..., 246, 246, 246],
       [244, 244, 244, ..., 246, 246, 246],
       ...,
       [125, 125, 130, ..., 129, 122, 122],
       [125, 125, 130, ..., 126, 114, 114],
       [131, 129, 133, ..., 128, 123, 123]], dtype=uint8)

```

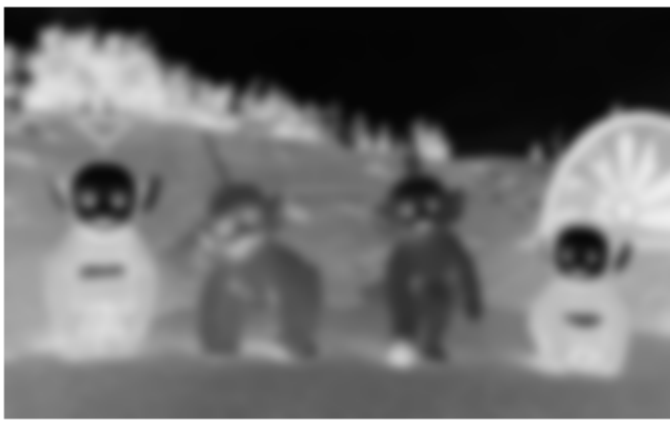
```

show_image(255-gray_img)
inverted_image=255-gray_img

```



```
blur_image=cv2.GaussianBlur(inverted_image,(111,111),0)  
show_image(blur_image)
```



```
sketch=cv2.divide(blur_image,inverted_image,scale=256.0)  
show_image(sketch)
```



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