

## Python Imagin Library

image- 0 to 255 pixels

```
import numpy as np
```

```
np.ones((3,4),dtype=int)
```

```
array([[1, 1, 1, 1],
       [1, 1, 1, 1],
       [1, 1, 1, 1]])
```

```
np.zeros((3,3),dtype=int)
```

```
array([[0, 0, 0],
       [0, 0, 0],
       [0, 0, 0]])
```

```
# Code never understands any image
```

```
# it breaks down the picture into array of 1 and 0
```

```
import matplotlib.pyplot as plt
from PIL import Image
```

```
from google.colab import drive
drive.mount('/content/drive')
```

```
Mounted at /content/drive
```

```
dog_img=Image.open("/content/drive/MyDrive/FSDS @Kodi Senapati/dog.jpg")
print(type(dog_img))
```

```
<class 'PIL.JpegImagePlugin.JpegImageFile'>
```

```
dog_img
```



```
#Convert Image into array
```

```
dog_img_arr=np.asarray(dog_img)
dog_img_arr
```


```
ndarray (183, 275, 3) show data
```



```
#Shape of image array
```

```
dog_img_arr.shape
```

```
#183-height, 275-width, 3-3D
```

 (183, 275, 3)

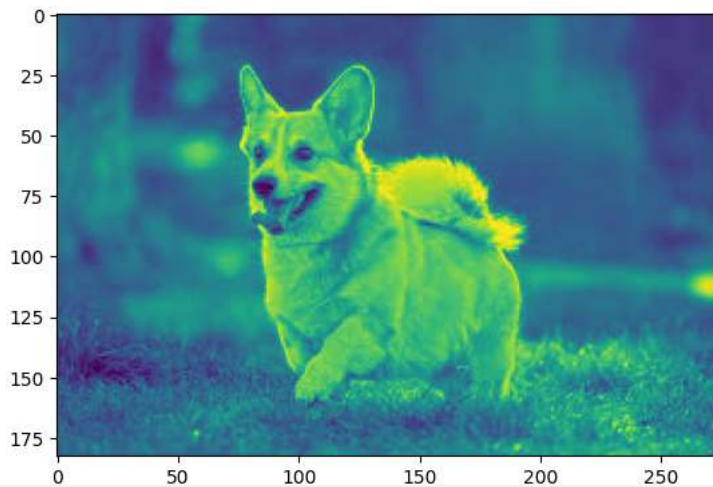
```
plt.imshow(dog_img_arr)
```

 <matplotlib.image.AxesImage at 0x78b8193006a0>




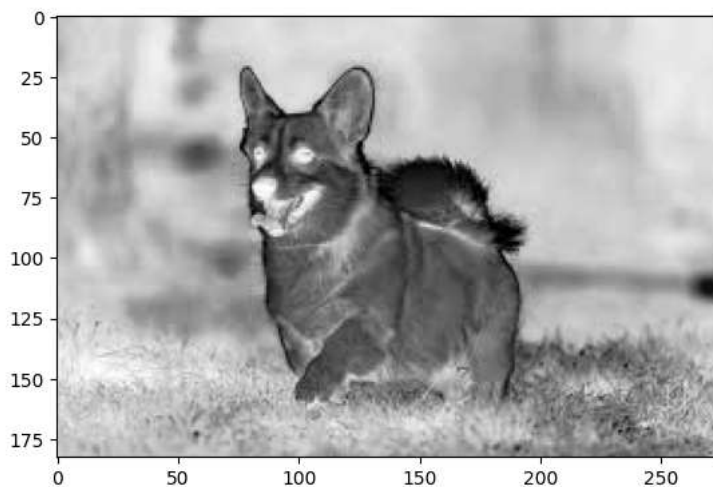
```
plt.imshow(dog_img_arr[:, :, 0])
```

 <matplotlib.image.AxesImage at 0x78b80be3b550>



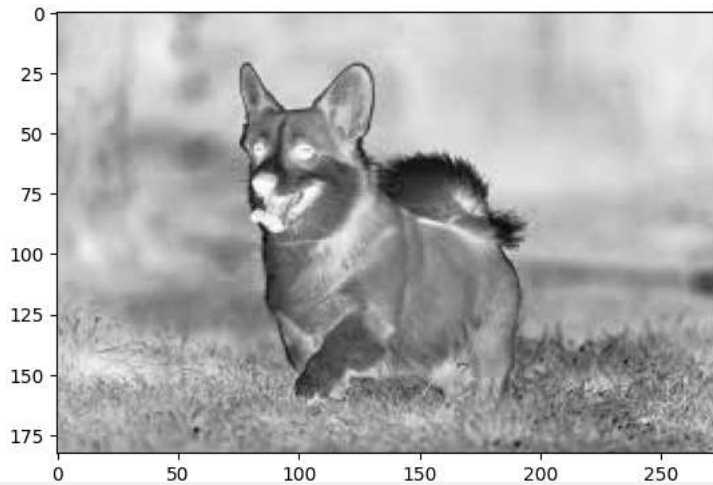
```
plt.imshow(dog_img_arr[:, :, 0], cmap='Greys')
```

 <matplotlib.image.AxesImage at 0x78b80bda51e0>



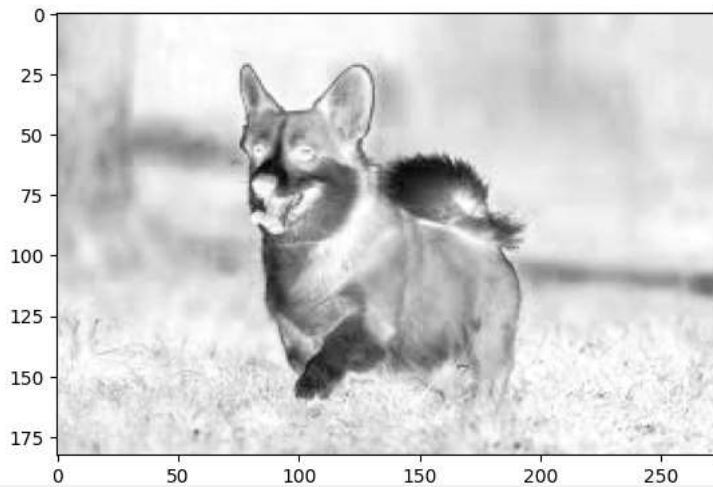
```
plt.imshow(dog_img_arr[:, :, 1], cmap='Greys')
```

↗ `<matplotlib.image.AxesImage at 0x78b809c9da50>`



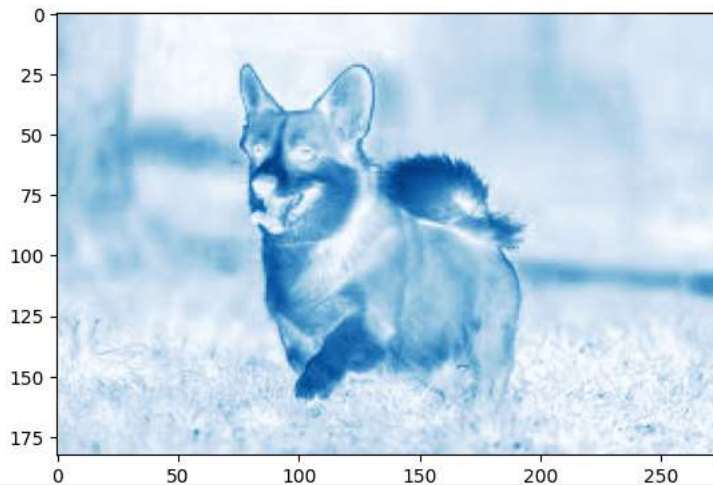
```
plt.imshow(dog_img_arr[:, :, 2], cmap='Greys')
```

↗ `<matplotlib.image.AxesImage at 0x78b809b86320>`



```
plt.imshow(dog_img_arr[:, :, 2], cmap='Blues')
```

↗ `<matplotlib.image.AxesImage at 0x78b809a08a30>`



Start coding or [generate](#) with AI.

