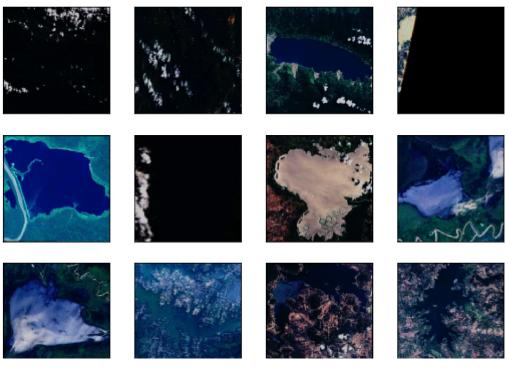
```
from google.colab import drive
drive.mount('/gdrive')
    Mounted at /gdrive
import cv2
import glob
import matplotlib.pyplot as plt
import numpy as np
from PIL import Image
import random
from tqdm.notebook import tqdm
np.random.seed(1)
from google.colab import drive
drive.mount('/content/drive')
    Mounted at /content/drive
paths = glob.glob('/content/drive/MyDrive/satellite/Images/*.jpg',recursive=True)
len(paths)
     63
orig = np.array([np.asarray(Image.open(img)) for img in tqdm(paths)])
orig.shape
     100%
                                                   63/63 [00:25<00:00, 2.94it/s]
     /usr/local/lib/python3.7/dist-packages/ipykernel_launcher.py:1: VisibleDeprecationWar
       """Entry point for launching an IPython kernel.
     (63,)
plt.figure(figsize=(9,9))
dim = (256, 256)
for i, img in enumerate(orig[0:16]):
  img=cv2.resize(img, dim)
 plt.subplot(4,4,i+1)
 plt.xticks([])
 plt.yticks([])
 plt.grid(False)
 plt.imshow(img)
plt.suptitle("Original", fontsize=20)
plt.show()
```

Original



Enhanced



gray = np.array([cv2.cvtColor(img, cv2.COLOR_RGB2GRAY) for img in tqdm(orig)])
gray.shape

100% 63/63 [00:00<00:00, 161.68it/s]

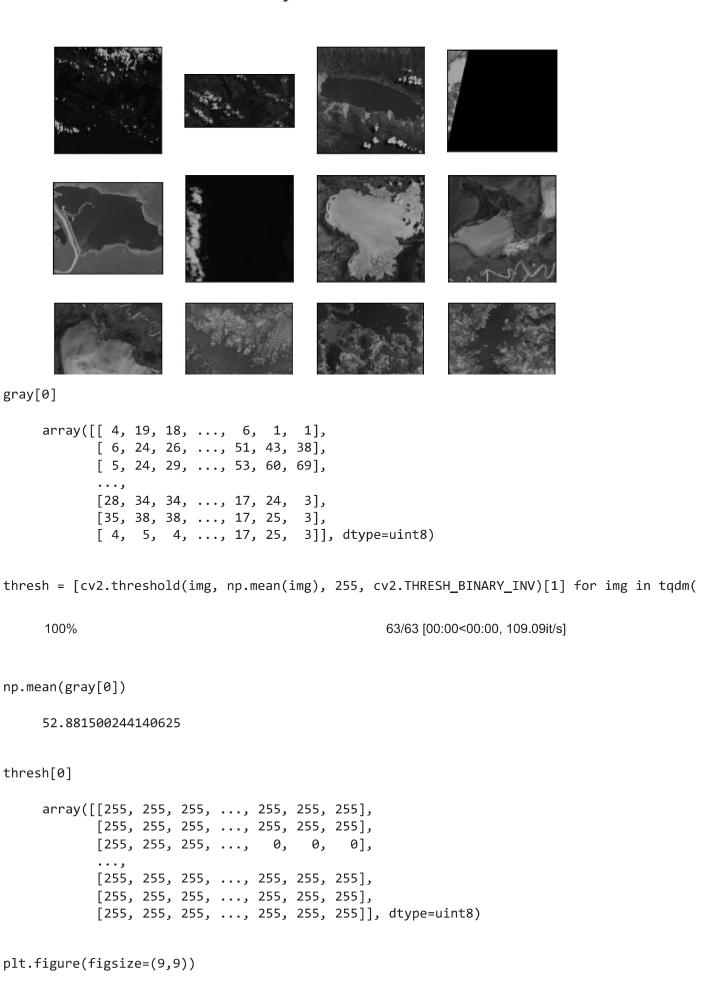
/usr/local/lib/python3.7/dist-packages/ipykernel_launcher.py:1: VisibleDeprecationWar """Entry point for launching an IPython kernel.
(63,)

```
plt.figure(figsize=(9,9))

for i, img in enumerate(gray[0:16]):
   plt.subplot(4,4,i+1)
   plt.xticks([])
   plt.yticks([])
   plt.grid(False)
   plt.imshow(cv2.cvtColor(img, cv2.COLOR_GRAY2RGB))

plt.suptitle("Grayscale", fontsize=20)
plt.show()
```

Grayscale



https://colab.research.google.com/drive/1Qr9-rc4bYH9nTU67t4n3YBcx4_lqiZLS#scrollTo=yOtqMQZoX5VE&printMode=true

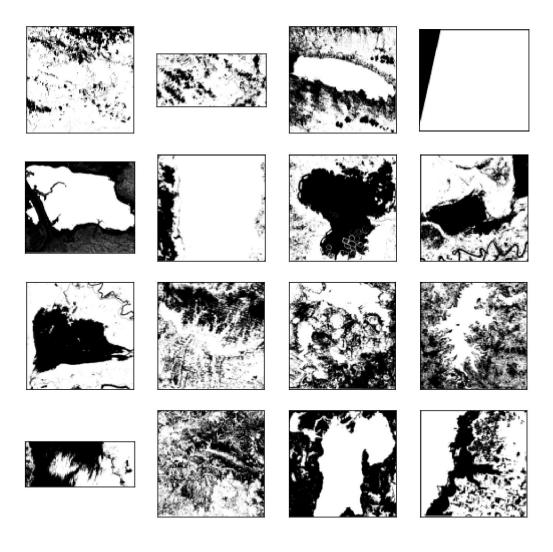
for i, threshimg in enumerate(thresh[0:16]):

```
plt.subplot(4,4,i+1)
plt.xticks([])
plt.yticks([])
plt.grid(False)
plt.imshow(threshimg,cmap='gray')

plt.suptitle("Threshold", fontsize=20)
plt.show()
```



Threshold



×