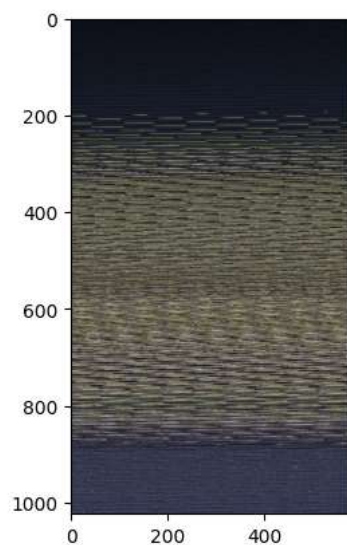


## ✓ KMeans\_EX

```
#import section
from matplotlib.image import imread
from sklearn.cluster import KMeans
import matplotlib.pyplot as plt
import os
import numpy as np
```

```
# Load the image
image = Image.open("/content/pexels-pixabay-70083.jpg")
image = image.resize((1024, 576))
image = np.array(image)
image = image.reshape(1024, 576, 3)
plt.imshow(image / 255)
plt.show()
```



```
#Get X from the image
X = image.reshape(-1,3)
```

```
#use KMeans
kmeans = KMeans(n_clusters = 2).fit(X)
segmented_img = kmeans.cluster_centers_[kmeans.labels_]
segmented_img = segmented_img.reshape(image.shape)
```

```
#show segmented image
plt.imshow(segmented_img/255)
```

<matplotlib.image.AxesImage at 0x7c02702ffe80>

