

Out[41]:



In [42]: arr1 = np.asarray(horse\_img)

In [43]: type(arr1)

Out[43]: numpy.ndarray

In [44]: arr1.shape

Out[44]: (2334, 3502, 3)

In [45]: plt.imshow(arr1)

Out[45]: &lt;matplotlib.image.AxesImage at 0x266e2ba3560&gt;



```
In [46]: horse_img1 = arr1.copy()
```

```
In [47]: horse_img1
```

```
Out[47]: array([[[15, 17, 29],
   [15, 17, 29],
   [15, 17, 29],
   ...,
   [25, 37, 35],
   [19, 34, 31],
   [14, 30, 27]],

   [[15, 17, 29],
   [15, 17, 29],
   [15, 17, 29],
   ...,
   [26, 38, 36],
   [22, 37, 34],
   [20, 36, 33]],

   [[15, 17, 29],
   [15, 17, 29],
   [15, 17, 29],
   ...,
   [28, 40, 38],
   [25, 40, 37],
   [24, 40, 37]],

   ...,

   [[49, 50, 44],
   [40, 41, 35],
   [35, 35, 27],
   ...,
   [14, 30, 29],
   [13, 25, 25],
   [12, 22, 23]],

   [[45, 50, 44],
   [38, 43, 37],
   [31, 36, 30],
   ...,
   [11, 25, 25],
   [12, 24, 24],
   [16, 26, 27]],

   [[31, 41, 33],
   [31, 41, 33],
   [32, 39, 32],
   ...,
   [14, 26, 26],
   [16, 26, 27],
   [23, 31, 33]]], dtype=uint8)
```

```
In [48]: horse_img1[:, :, 0] = 0
```

```
In [49]: horse_img1[:, :, 0]
```

```
Out[49]: array([[0, 0, 0, ..., 0, 0, 0],  
                 [0, 0, 0, ..., 0, 0, 0],  
                 [0, 0, 0, ..., 0, 0, 0],  
                 ...,  
                 [0, 0, 0, ..., 0, 0, 0],  
                 [0, 0, 0, ..., 0, 0, 0],  
                 [0, 0, 0, ..., 0, 0, 0]], dtype=uint8)
```

```
In [50]: plt.imshow(horse_img1)
```

```
Out[50]: <matplotlib.image.AxesImage at 0x266e21a84d0>
```



```
In [51]: horse_img1[:, :, 1] = 0
```

```
In [52]: horse_img1[:, :, 1]
```

```
Out[52]: array([[0, 0, 0, ..., 0, 0, 0],  
                 [0, 0, 0, ..., 0, 0, 0],  
                 [0, 0, 0, ..., 0, 0, 0],  
                 ...,  
                 [0, 0, 0, ..., 0, 0, 0],  
                 [0, 0, 0, ..., 0, 0, 0],  
                 [0, 0, 0, ..., 0, 0, 0]], dtype=uint8)
```

```
In [53]: plt.imshow(horse_img1)
```

```
Out[53]: <matplotlib.image.AxesImage at 0x266e0f70e00>
```



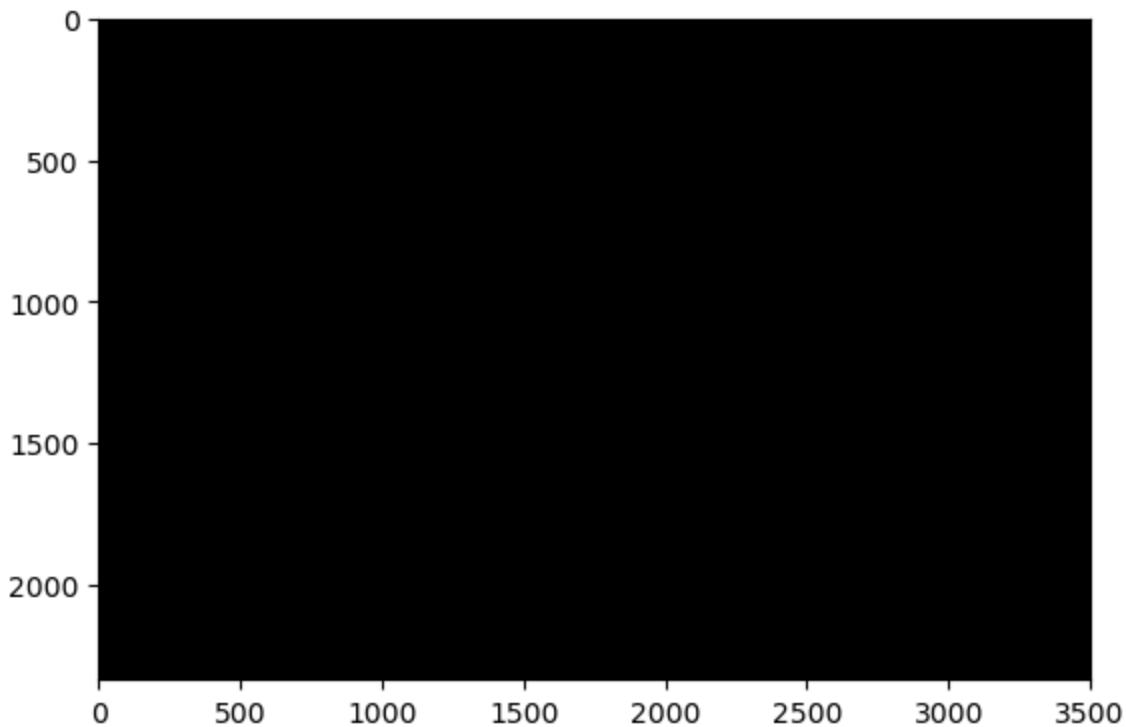
```
In [54]: horse_img1[:, :, 2] = 0
```

```
In [55]: horse_img1[:, :, 2]
```

```
Out[55]: array([[0, 0, 0, ..., 0, 0, 0],
   [0, 0, 0, ..., 0, 0, 0],
   [0, 0, 0, ..., 0, 0, 0],
   ...,
   [0, 0, 0, ..., 0, 0, 0],
   [0, 0, 0, ..., 0, 0, 0],
   [0, 0, 0, ..., 0, 0, 0]], dtype=uint8)
```

```
In [56]: plt.imshow(horse_img1)
```

```
Out[56]: <matplotlib.image.AxesImage at 0x266e2e2b860>
```



In [ ]:

In [ ]:

In [ ]: