



```
In [30]: horse_red[:, :, 0]
```

```
Out[30]: array([[15, 15, 15, ..., 25, 19, 14],
                [15, 15, 15, ..., 26, 22, 20],
                [15, 15, 15, ..., 28, 25, 24],
                ...,
                [49, 40, 35, ..., 14, 13, 12],
                [45, 38, 31, ..., 11, 12, 16],
                [31, 31, 32, ..., 14, 16, 23]], dtype=uint8)
```

```
In [31]: horse_red[:, :, 1]
```

```
Out[31]: array([[17, 17, 17, ..., 37, 34, 30],
                [17, 17, 17, ..., 38, 37, 36],
                [17, 17, 17, ..., 40, 40, 40],
                ...,
                [50, 41, 35, ..., 30, 25, 22],
                [50, 43, 36, ..., 25, 24, 26],
                [41, 41, 39, ..., 26, 26, 31]], dtype=uint8)
```

```
In [32]: horse_red[:, :, 2]
```

```
Out[32]: array([[29, 29, 29, ..., 35, 31, 27],
                [29, 29, 29, ..., 36, 34, 33],
                [29, 29, 29, ..., 38, 37, 37],
                ...,
                [44, 35, 27, ..., 29, 25, 23],
                [44, 37, 30, ..., 25, 24, 27],
                [33, 33, 32, ..., 26, 27, 33]], dtype=uint8)
```

```
In [33]: horse_red[:, :, 1]=0
```

```
In [34]: horse_red[:, :, 1]
```

```
Out[34]: 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 [35]: plt.imshow(horse_red)
```

```
Out[35]: <matplotlib.image.AxesImage at 0x266e21dc950>
```



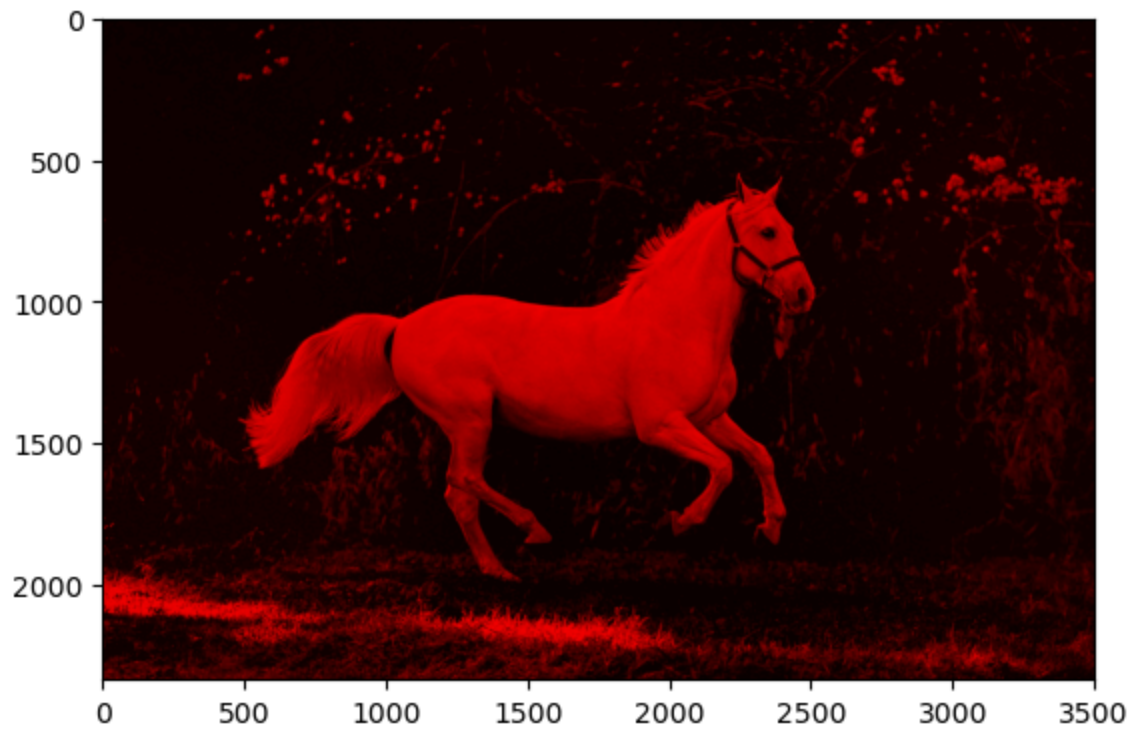
```
In [36]: horse_red[:, :, 2] = 0
```

```
In [37]: horse_red[:, :, 2]
```

```
Out[37]: 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 [38]: plt.imshow(horse_red)
```

```
Out[38]: <matplotlib.image.AxesImage at 0x266e2b2d9a0>
```



In [39]: `horse_arr`

```

Out[39]: 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 [40]: horse_red
```

```

Out[40]: array([[15,  0,  0],
               [15,  0,  0],
               [15,  0,  0],
               ...,
               [25,  0,  0],
               [19,  0,  0],
               [14,  0,  0]],

              [[15,  0,  0],
               [15,  0,  0],
               [15,  0,  0],
               ...,
               [26,  0,  0],
               [22,  0,  0],
               [20,  0,  0]],

              [[15,  0,  0],
               [15,  0,  0],
               [15,  0,  0],
               ...,
               [28,  0,  0],
               [25,  0,  0],
               [24,  0,  0]],

              ...,

              [[49,  0,  0],
               [40,  0,  0],
               [35,  0,  0],
               ...,
               [14,  0,  0],
               [13,  0,  0],
               [12,  0,  0]],

              [[45,  0,  0],
               [38,  0,  0],
               [31,  0,  0],
               ...,
               [11,  0,  0],
               [12,  0,  0],
               [16,  0,  0]],

              [[31,  0,  0],
               [31,  0,  0],
               [32,  0,  0],
               ...,
               [14,  0,  0],
               [16,  0,  0],
               [23,  0,  0]]], dtype=uint8)

```

```
In [41]: horse_img
```