

#Convert Image to Array

```
In [3]: import numpy as np #array
```

```
In [4]: import matplotlib.pyplot as plt #visualization
```

```
In [5]: from PIL import Image #python image library
```

```
In [6]: Flower_image = Image.open(r'C:\Users\ankus\Downloads\Flower.jpg')  
Flower_image
```

Out[6]:



```
In [7]: Hibiscus_image = Image.open(r'C:\Users\ankus\Downloads\Hibiscus.webp')  
Hibiscus_image
```

Out[7]:



```
In [8]: print(type(Flower_image))  
        print(type(Hibiscus_image))  
  
<class 'PIL.JpegImagePlugin.JpegImageFile'>  
<class 'PIL.WebPImagePlugin.WebPImageFile'>
```

```
In [9]: Flo_arr = np.asarray(Flower_image)  
        Flo_arr
```

```

Out[9]: array([[16, 45, 59],
               [20, 49, 63],
               [22, 51, 65],
               ...,
               [39, 86, 18],
               [40, 87, 19],
               [40, 87, 19]],

              [[14, 43, 57],
               [17, 46, 60],
               [20, 49, 63],
               ...,
               [39, 86, 18],
               [41, 88, 20],
               [41, 88, 20]],

              [[11, 40, 54],
               [14, 43, 57],
               [17, 46, 60],
               ...,
               [38, 85, 17],
               [46, 93, 25],
               [46, 93, 25]],

              ...,

              [[ 0, 30, 32],
               [ 0, 29, 31],
               [ 0, 29, 31],
               ...,
               [ 7, 57, 22],
               [ 4, 54, 19],
               [ 6, 56, 21]],

              [[ 2, 33, 35],
               [ 1, 32, 34],
               [ 0, 31, 33],
               ...,
               [ 6, 56, 21],
               [10, 60, 25],
               [12, 62, 27]],

              [[ 5, 36, 38],
               [ 4, 35, 37],
               [ 2, 33, 35],
               ...,
               [ 4, 54, 19],
               [13, 63, 28],
               [15, 65, 30]]], dtype=uint8)

```

```

In [10]: plt.imshow(Flo_arr)
         plt.show

```

```

Out[10]: <function matplotlib.pyplot.show(close=None, block=None)>

```



```
In [11]: Flo_arr.shape
```

```
Out[11]: (4032, 5674, 3)
```

```
In [12]: Hib_arr = np.asarray(Hibiscus_image)
Hib_arr
```

```

Out[12]: array([[ 43,  73,  13],
                [ 43,  73,  13],
                [ 45,  75,  15],
                ...,
                [ 42,  33,  16],
                [ 43,  34,  17],
                [ 43,  34,  17]],

                [[ 39,  70,   9],
                [ 39,  70,   9],
                [ 42,  72,  12],
                ...,
                [ 42,  33,  16],
                [ 43,  34,  17],
                [ 43,  34,  17]],

                [[ 35,  65,   5],
                [ 35,  65,   5],
                [ 37,  67,   7],
                ...,
                [ 42,  33,  16],
                [ 43,  34,  17],
                [ 43,  34,  17]],

                ...,

                [[ 77,  79,  15],
                [ 69,  73,   6],
                [ 67,  76,   5],
                ...,
                [121, 130,  86],
                [125, 129,  89],
                [127, 128,  89]],

                [[ 87,  81,  19],
                [ 72,  69,   6],
                [ 69,  71,   4],
                ...,
                [122, 131,  87],
                [127, 132,  91],
                [129, 131,  91]],

                [[ 97,  84,  27],
                [ 78,  68,   8],
                [ 71,  68,   3],
                ...,
                [121, 133,  88],
                [129, 136,  95],
                [132, 136,  96]]], dtype=uint8)

```

```

In [13]: plt.imshow(Hib_arr)
         plt.show

```

```

Out[13]: <function matplotlib.pyplot.show(close=None, block=None)>

```



```
In [14]: Hib_arr.shape
```

```
Out[14]: (355, 474, 3)
```

```
In [ ]:
```