Convert Images to Numpy Arrays

```
In [11]:   # install open cv by running (pip install opencv-python)
           # import opencv using 'import cv2'

           import cv2
```

```
In [14]:   # load the image
           # you pass one more argument , "0" if you want to read the image in grey
           # or "1" if you want to read the image in BGR.
           im_g = cv2.imread("Z:\others\smallgray.png",0)
```

```
In [15]:   im_g
```

```
Out[15]:   array([[187, 158, 104, 121, 143],
                  [198, 125, 255, 255, 147],
                  [209, 134, 255,  97, 182]], dtype=uint8)
```

```
In [26]:   im = cv2.imread("Z:\others\photo35.jpg",1)
```

```
In [27]:   im
```

```
Out[27]:   array([[[ 2,  2,  2],
                   [ 2,  2,  2],
                   [ 2,  2,  2],
                   ...,
                   [ 2,  2,  2],
                   [ 2,  2,  2],
                   [ 3,  3,  3]],

                  [[ 2,  2,  2],
                   [ 2,  2,  2],
                   [ 2,  2,  2],
                   ...,
                   [ 2,  2,  2],
                   [ 2,  2,  2],
                   [ 3,  3,  3]],

                  [[ 2,  2,  2],
                   [ 2,  2,  2],
                   [ 2,  2,  2],
                   ...,
                   [ 2,  2,  2],
                   [ 2,  2,  2],
                   [ 3,  3,  3]],

                  ...,

                  [[82, 82, 82],
                   [82, 82, 82],
                   [82, 82, 82],
                   ...,
                   [ 1,  1,  1],
                   [ 1,  1,  1],
                   [ 1,  1,  1]],

                  [[82, 82, 82],
                   [82, 82, 82],
                   [82, 82, 82],
                   ...,
                   [ 1,  1,  1],
                   [ 1,  1,  1],
                   [ 1,  1,  1]],

                  [[78, 78, 78],
                   [78, 78, 78],
                   [79, 79, 79],
                   ...,
                   [ 1,  1,  1],
                   [ 1,  1,  1],
                   [ 1,  1,  1]]], dtype=uint8)
```

```
In [28]:   # converting a numpy array to image
           # true, means your file has been created
           cv2.imwrite('newphoto.png',im)
```

```
Out[28]:   True
```

```
In [ ]:
```

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