Images

What are images?

- Images are numpy arrays.

```python
import cv2

image = cv2.imread('some_image.png')
print(type(image))
```
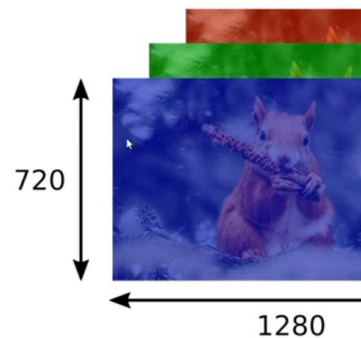
<class 'numpy.ndarray'>

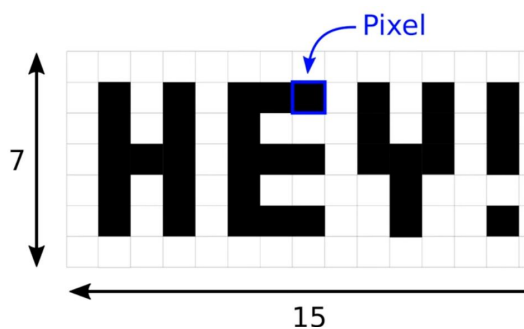- An image shape is given by its **height, width** and **number of channels**.

```python
import cv2

image = cv2.imread('some_image.png')
print(image.shape)
```

(720, 1280, 3)

An image is made by "pixel"

- In "most cases" pixel value range from **0** to **255**.

- In binary images pixel value is in **[0, 1]** (or **[0, 255]**).

- In 16 bits images pixel value range from **0** to **65535**.

36	38	29
30	30	21
24	21	15

69	69	58
62	60	51
57	51	43

119	117	105
111	107	96
103	96	88