

Image Basics with CNN

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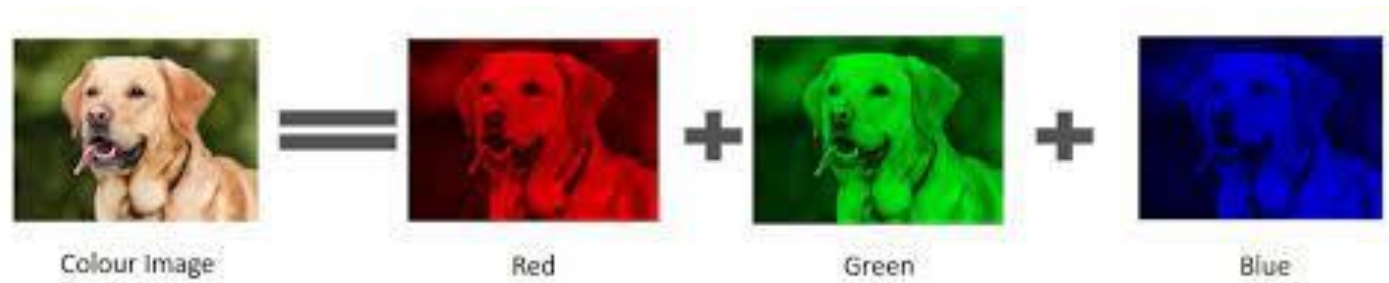
CLASS STARTING SHARP AT 8:07 PM

Topics to be covered today

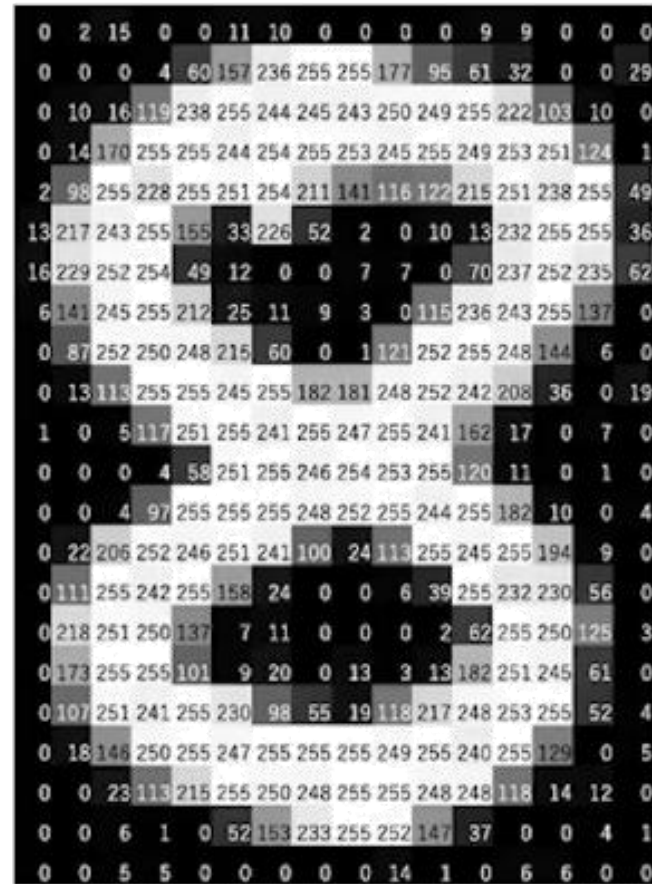
- How is image stored inside a computer?
- Image Processing and reading with OpenCV Library
- Need For image classification
- Convolution Layer
- Max Pooling Layer
- Average Pooling Layer
- Flatten Layer
- Architecture of CNN (Convolutional Neural Network)

How is image stored inside a computer

Coloured Image



Grayscale Image



CV2 Library to read images as array

```
import cv2
```

```
cv2.imread(image_path)
```

```
# Convert BGR to RGB
```

```
cv2.cvtColor(arr, cv2.COLOR_BGR2RGB)
```

```
# Showing image inside python
```

```
plt.imshow(img_arr)
```

```
# Read image as grayscale
```

```
plt.imshow(img_arr,cmap='gray')
```

Thank You

PING ME ON SKYPE GROUP IF YOU HAVE ANY FURTHER QUERIES

