

DAY 1:

Field of Comp' Science

Computer vision

focuses on replicating parts of human eye

Enables computers to identify objects as humans do

How works

↳ Feed lot of images. → labeled

object ← pattern

How Computer deal on img

↳ as an array → each pixel stored as brightness (0 → black

255 - white)

1	2	3	4
5	6	7	8

but stored as

1	2	3	4	5	6	7	8
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- ↳ For colour it has one more dimension  
to image =  $\text{---} \times \text{---} \times \underline{3}$   
                                x-axis      y-axis      z  
  colour

Libraries (Keras, TensorFlow, Theano)

Keras:

- ↳ Deep learning framework
- ↳ A well designed API to facilitate building of DNN with ease.
- ↳ It uses TensorFlow or Theano for computational
- ↳ allows ~~us~~ us to use diff-? libraries for DNN.

TensorFlow / Theano