

YOLO: Release Dates Timeline



YOLO : You Only Look Once

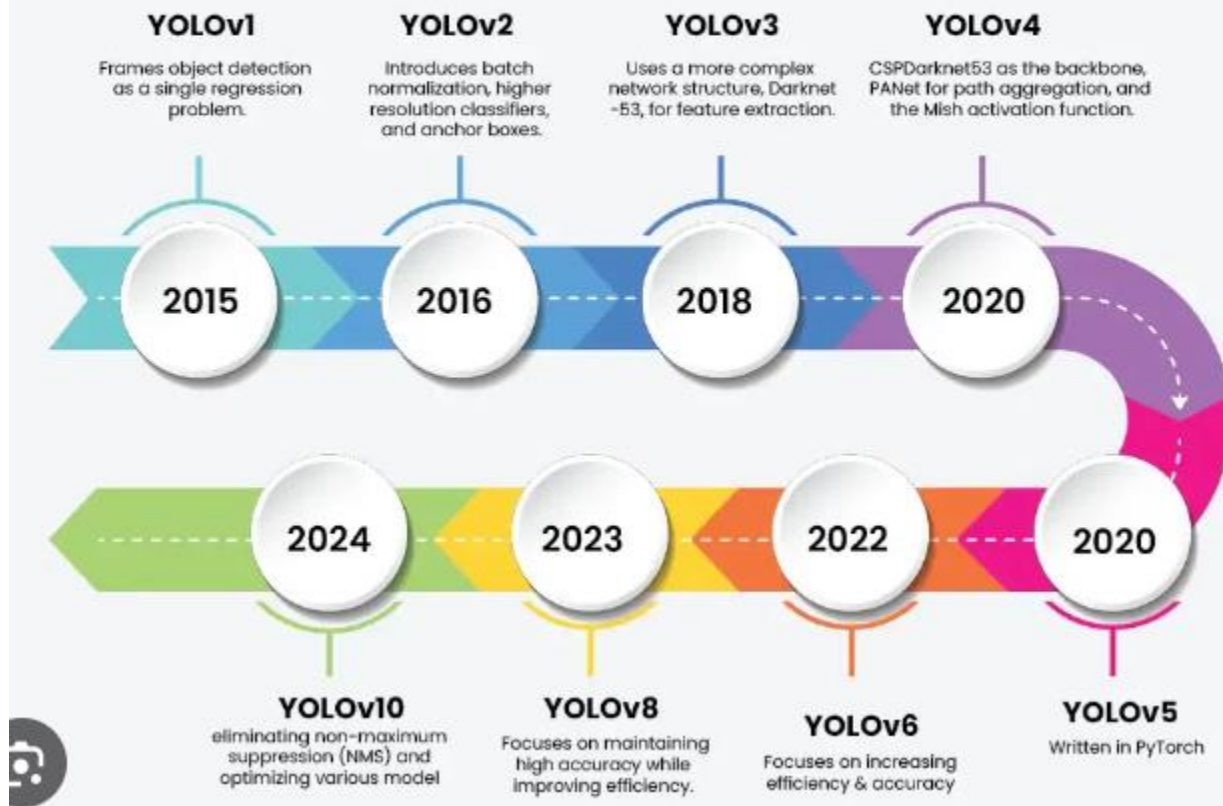


Image Classification

Is this a dog or a person?



Neural
Network
Output

Dog = 1
Person = 0

Object Localization

Where exactly is the dog in
this image?



Neural
Network
Output

Dog = 1
Person = 0
+
Bounding
Box

Object Localization



P_c	1
B_x	50
B_y	70
B_w	60
B_h	70
C_1	1
C_2	0

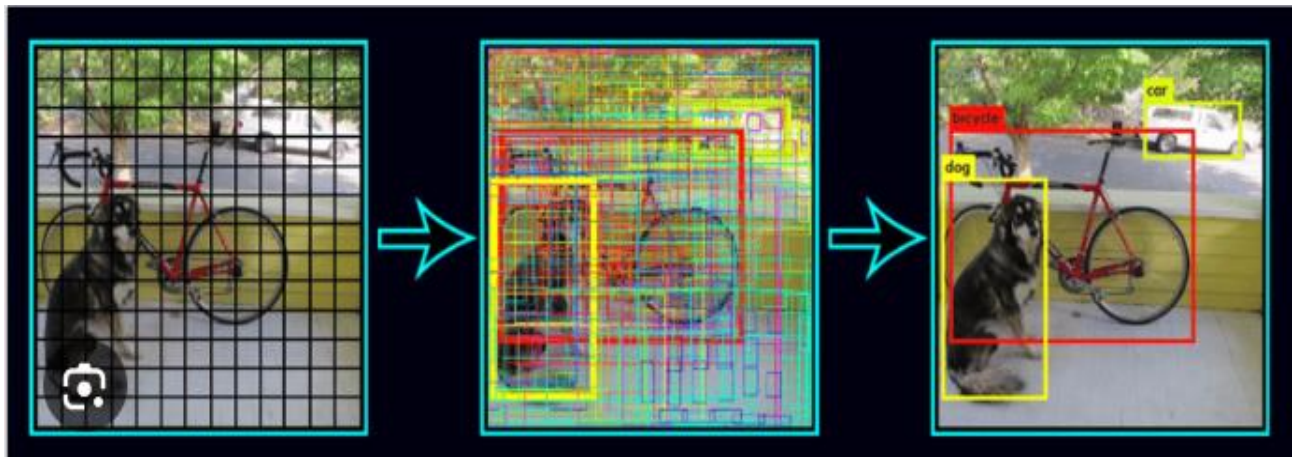
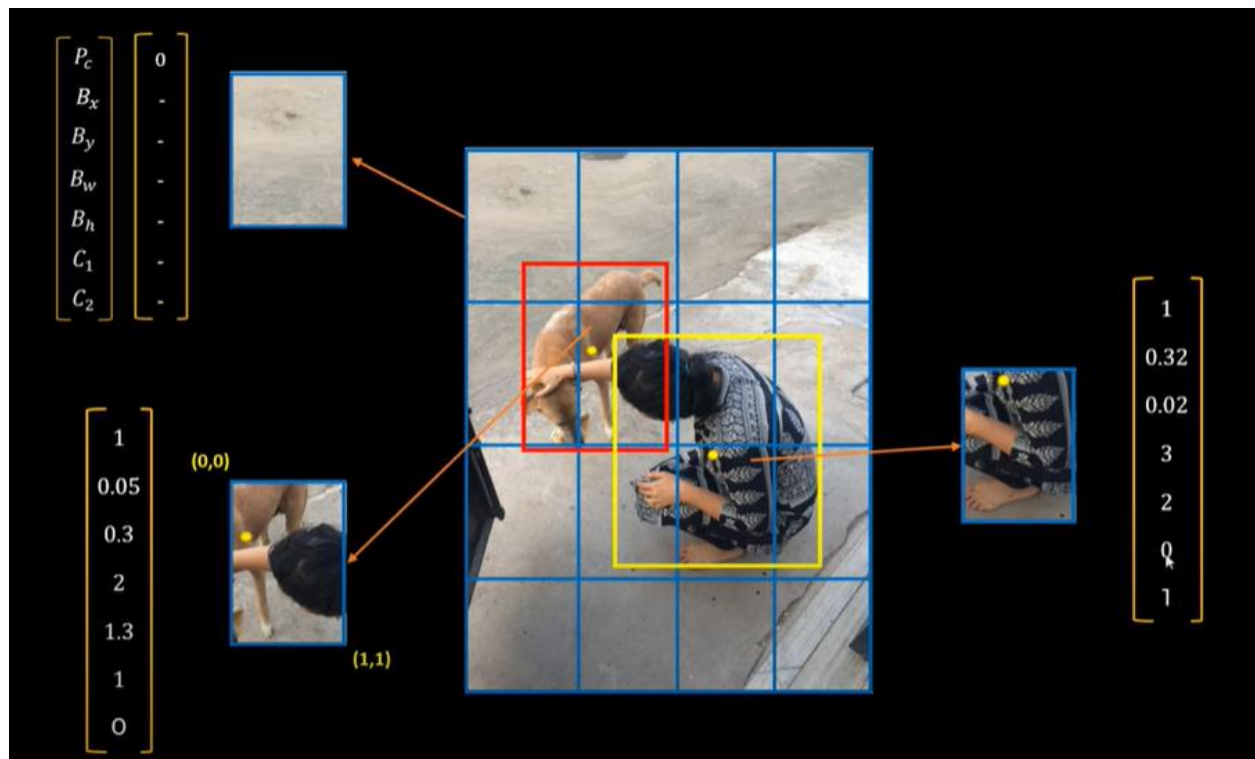
$C_1 = \text{Dog class}$
 $C_2 = \text{Person Class}$



1
30
28
28
82
0
1



0
-
-
-
-
-



<https://blog.roboflow.com/guide-to-yolo-models/>



Is this a
dog?

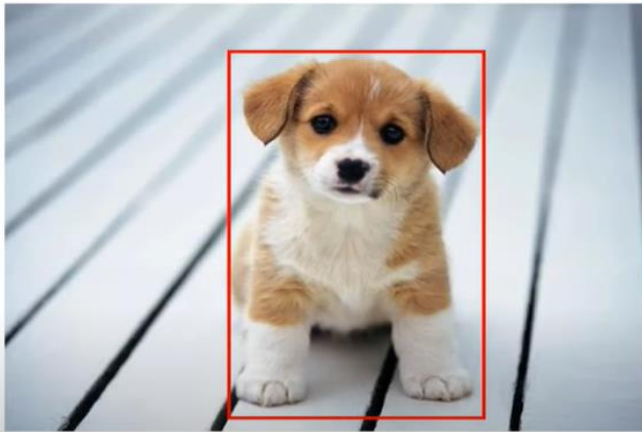


Image
classificati
on with
localization

Is this a dog?



Image Classification

What is there in image
and where?



Object Detection

Which pixels belong to
which object?

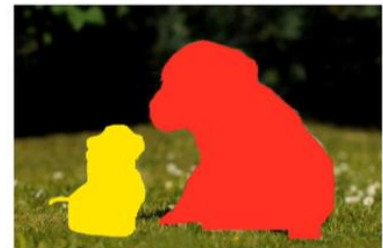


Image Segmentation