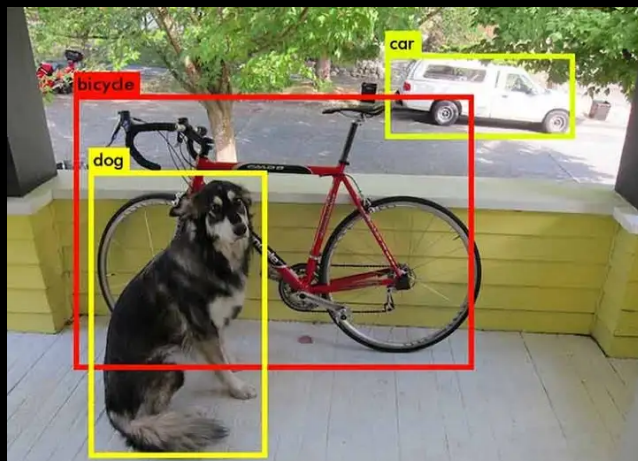


A bounding box is a rectangular region in an image that encloses an object detected by an object detection model. It helps in locating and identifying objects in an image by providing their spatial coordinates.

Agenda

1. Representations
2. Corner Format
3. Center Format

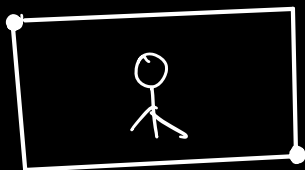


Corner Format

$x_{min}, x_{max}, y_{min}, y_{max}$

x_{min}, y_{min} :- Top left corner

x_{max}, y_{max} :- Bottom Right corner



Ex:- $(x_{min}, y_{min}, x_{max}, y_{max})$
 $(50, 30, 200, 180)$

Top left :- $(50, 30)$

Bottom Right :- $(200, 180)$

Center Format

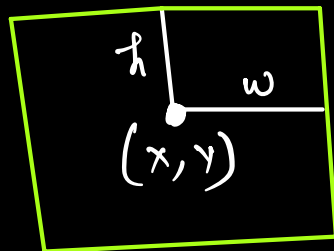
x_{center} , y_{center} , width, height

x_{center} :- X co-ord of center

y_{center} :- Y co-ord of center

Width :- Width of Bbox

Height :- Height of Bbox



Ex:- $(125, 105, 150, 150)$

Center Point:- $(125, 105)$

Width, Height :- $(150, 150)$

Different Types of Object Detection Algo

1) Centre :- Majorly Used

2) Corner :- Previously Used