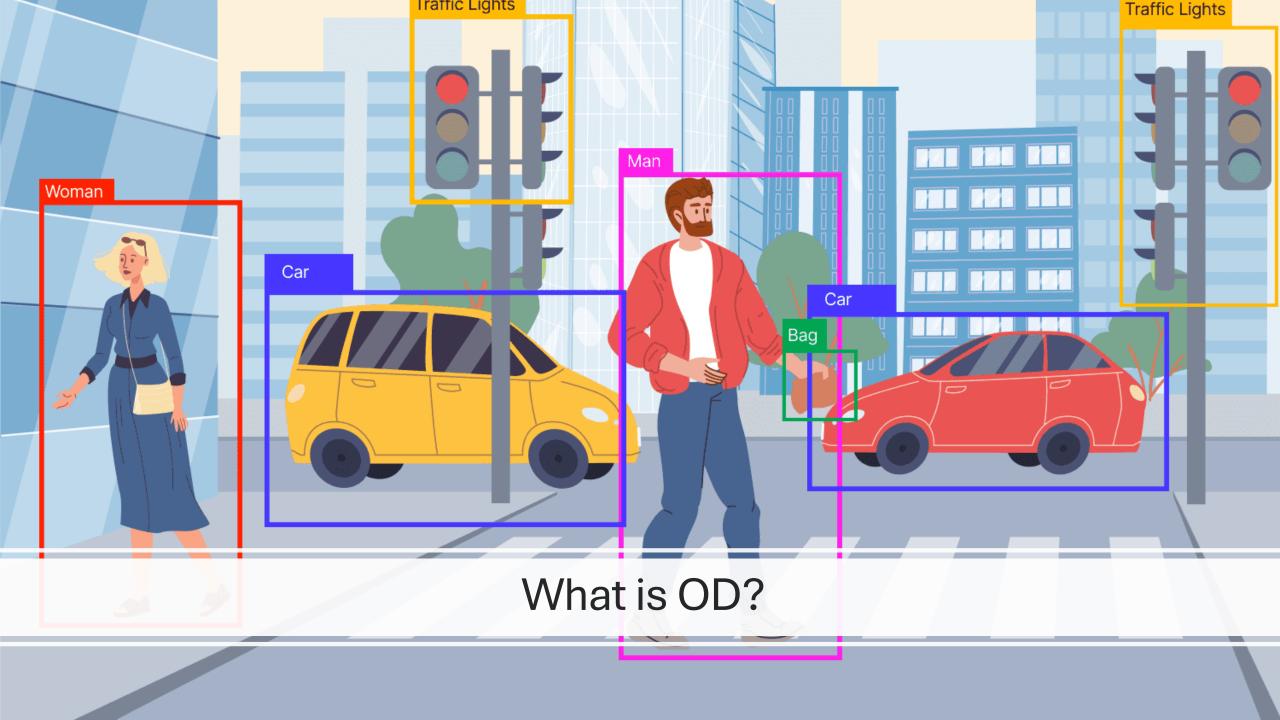
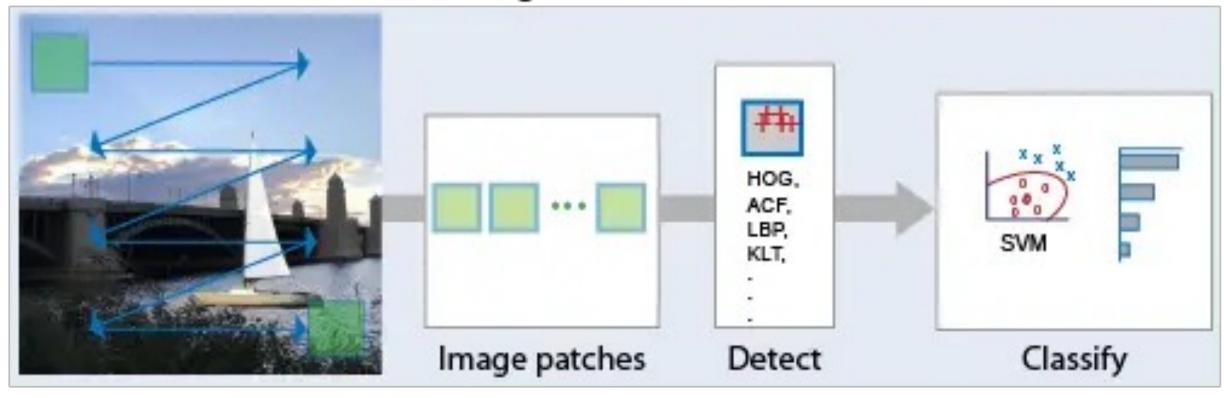
Small Object Detection with SAHI & YOLO



Sliding Window Approach

Sliding Window Detector



Sliding Window Approach



However, the sliding window approach can be **computationally expensive**, especially when dealing with large images or multiple scales

Sliding Window Approach

Disadvantages



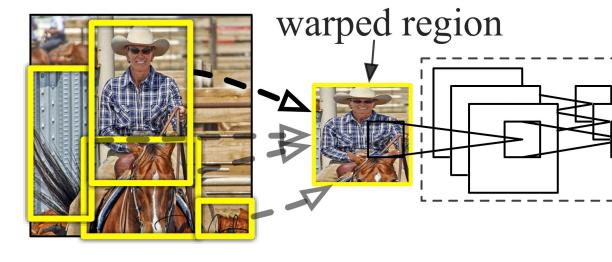


R-CNN

R-CNN: Regions with CNN features



1. Input image



2. Extract region proposals (~2k)

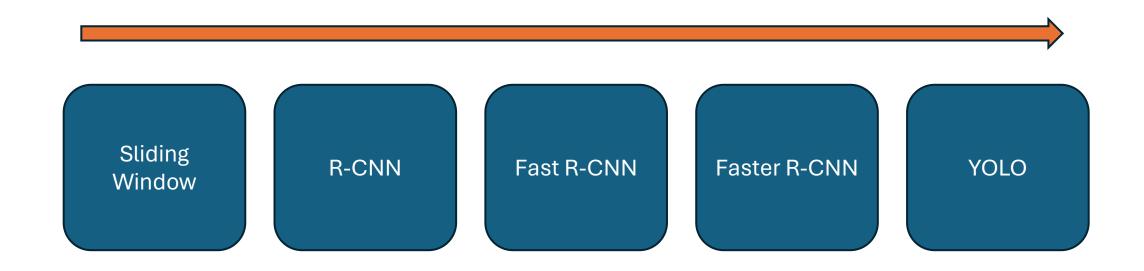
3. Compute CNN features

tvmonitor? no.4. Classify regions

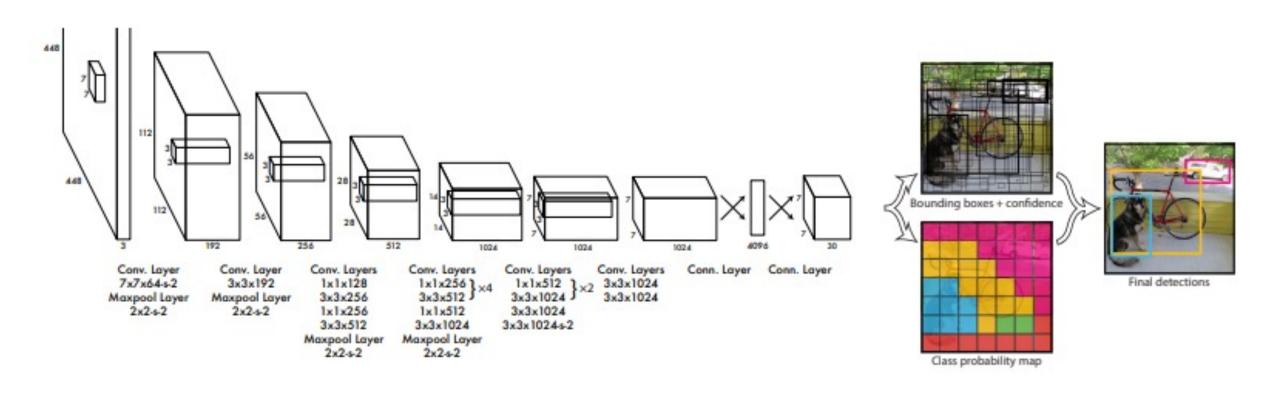
aeroplane? no.

person? yes.

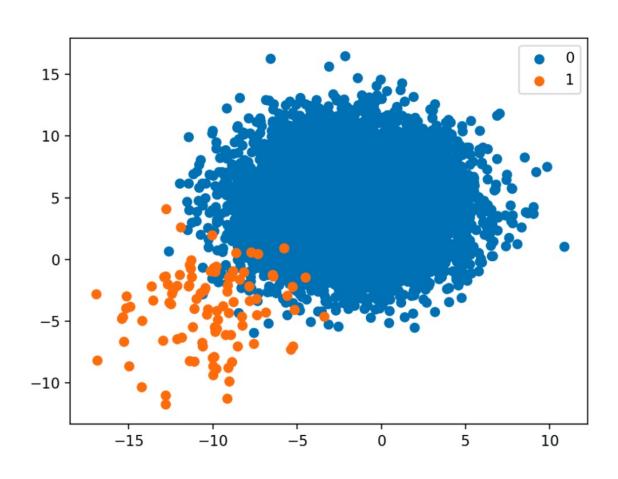
And so on....



YOLO is SOTA but...

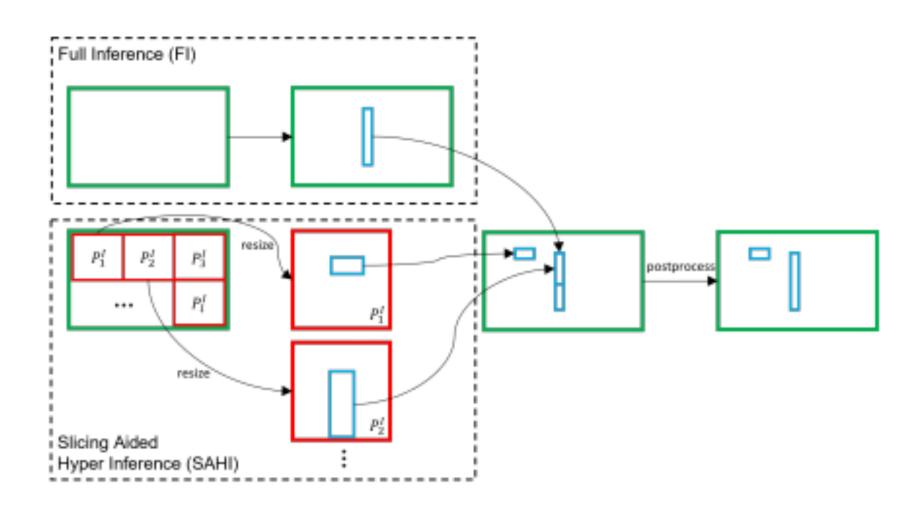


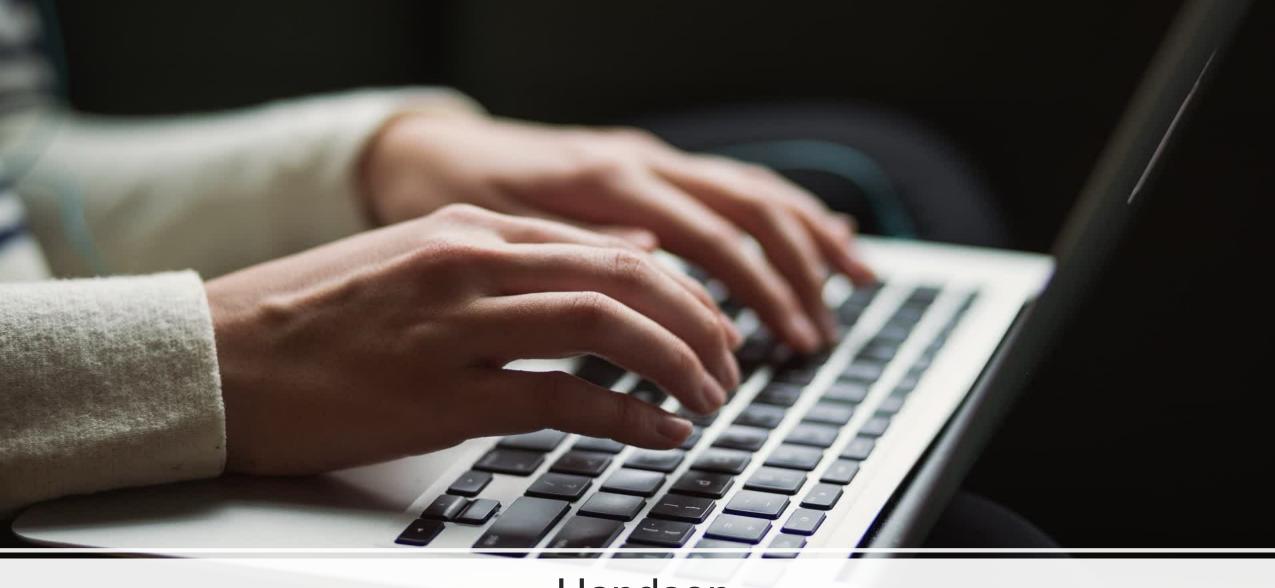
And also because of data bias



People tend to train on larger object dataset.

So, we need SAHI – Slicing Aided Hyper Inference





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