

VAE

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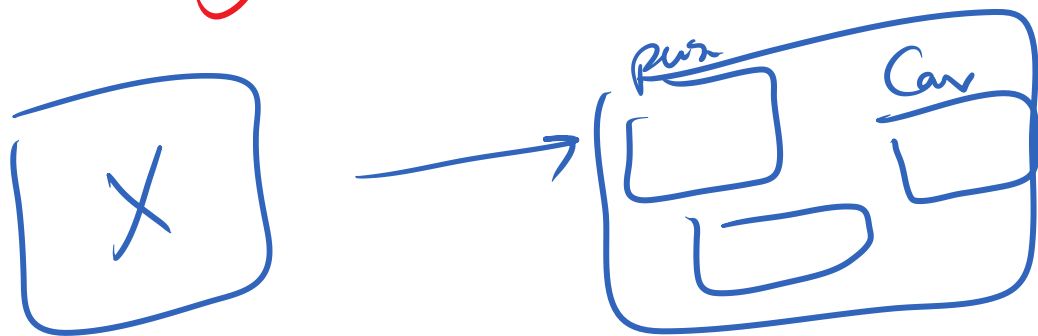
GAN

→ Conditional GAN

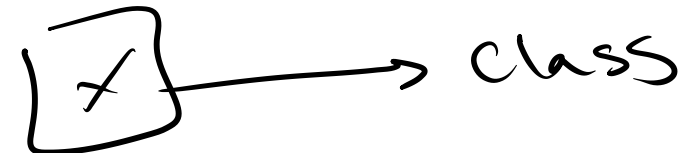
→ Cycle GAN

Stable Diffusion

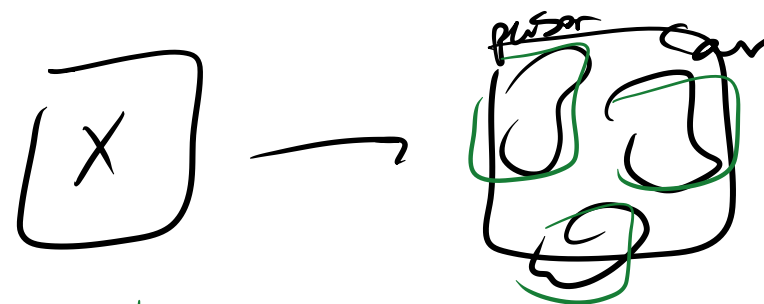
object Detection



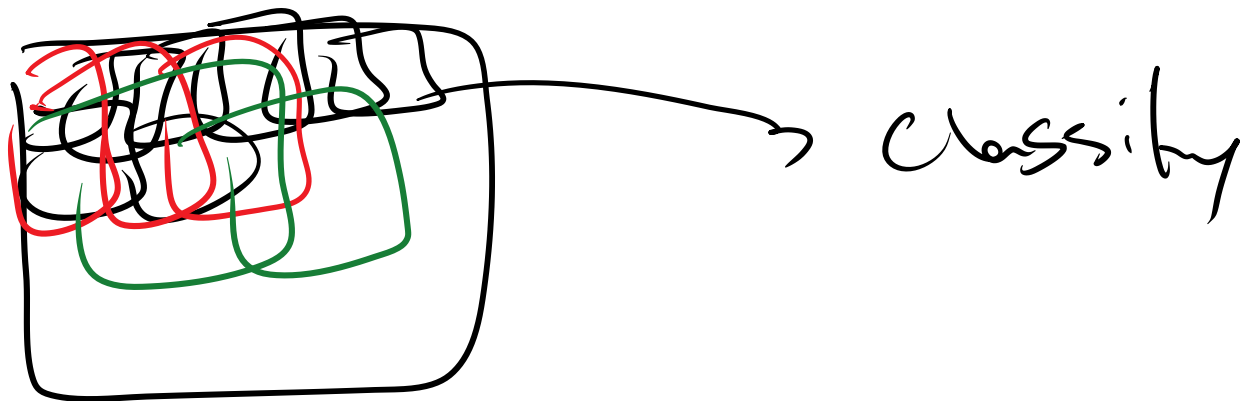
Classification



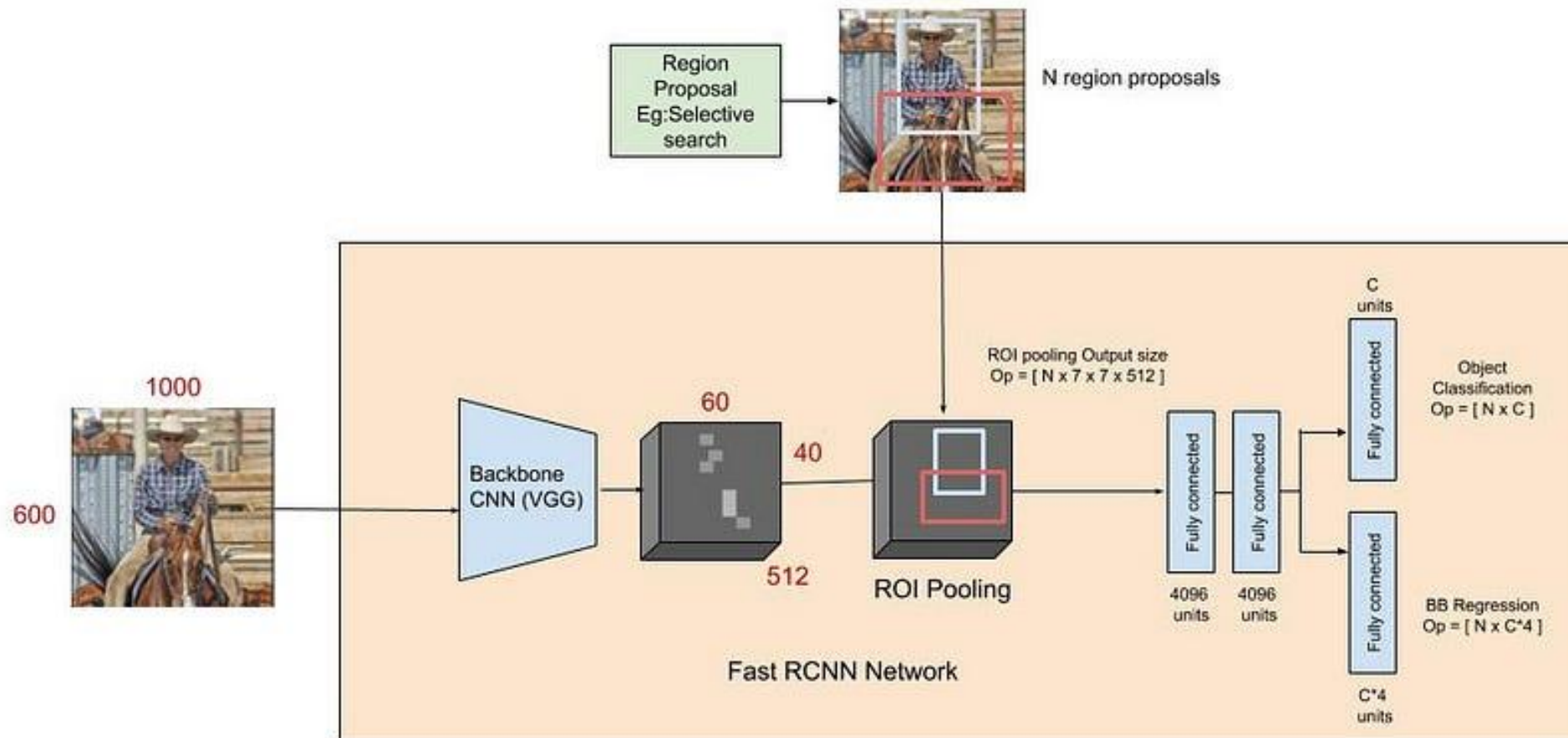
Semantic Segmentation



RCNN

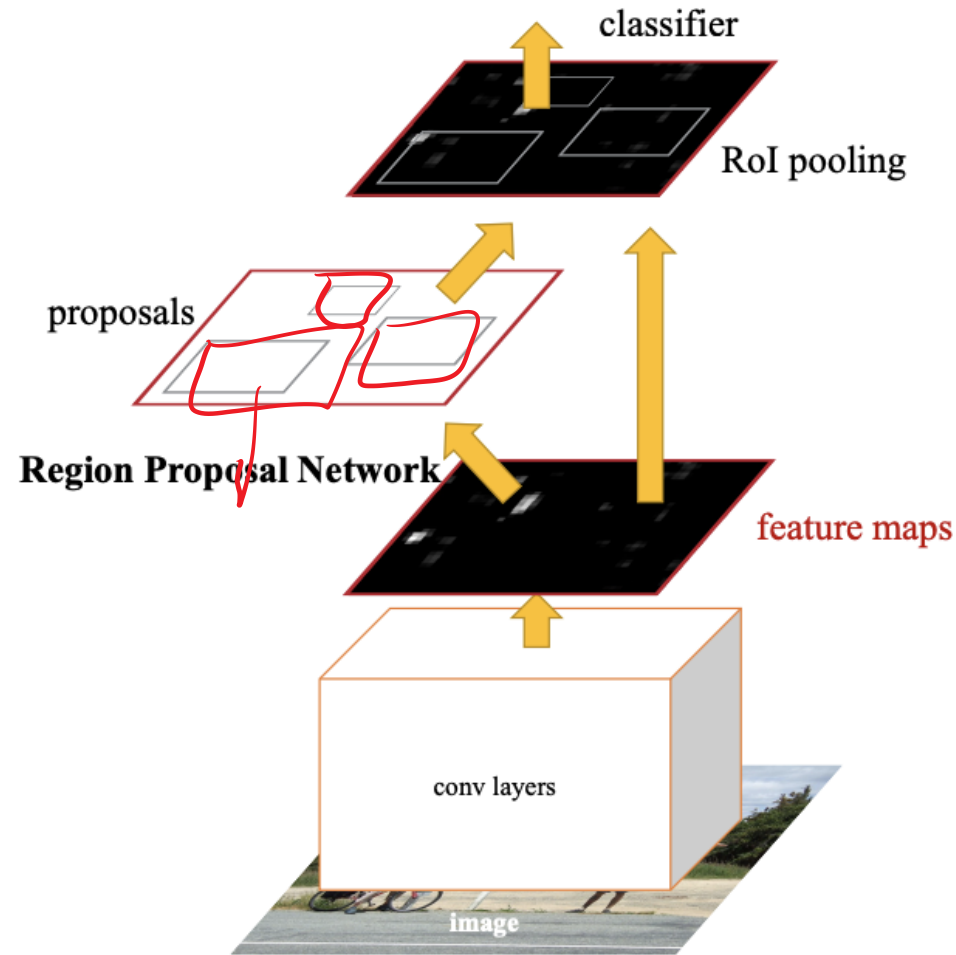


fast RCNN



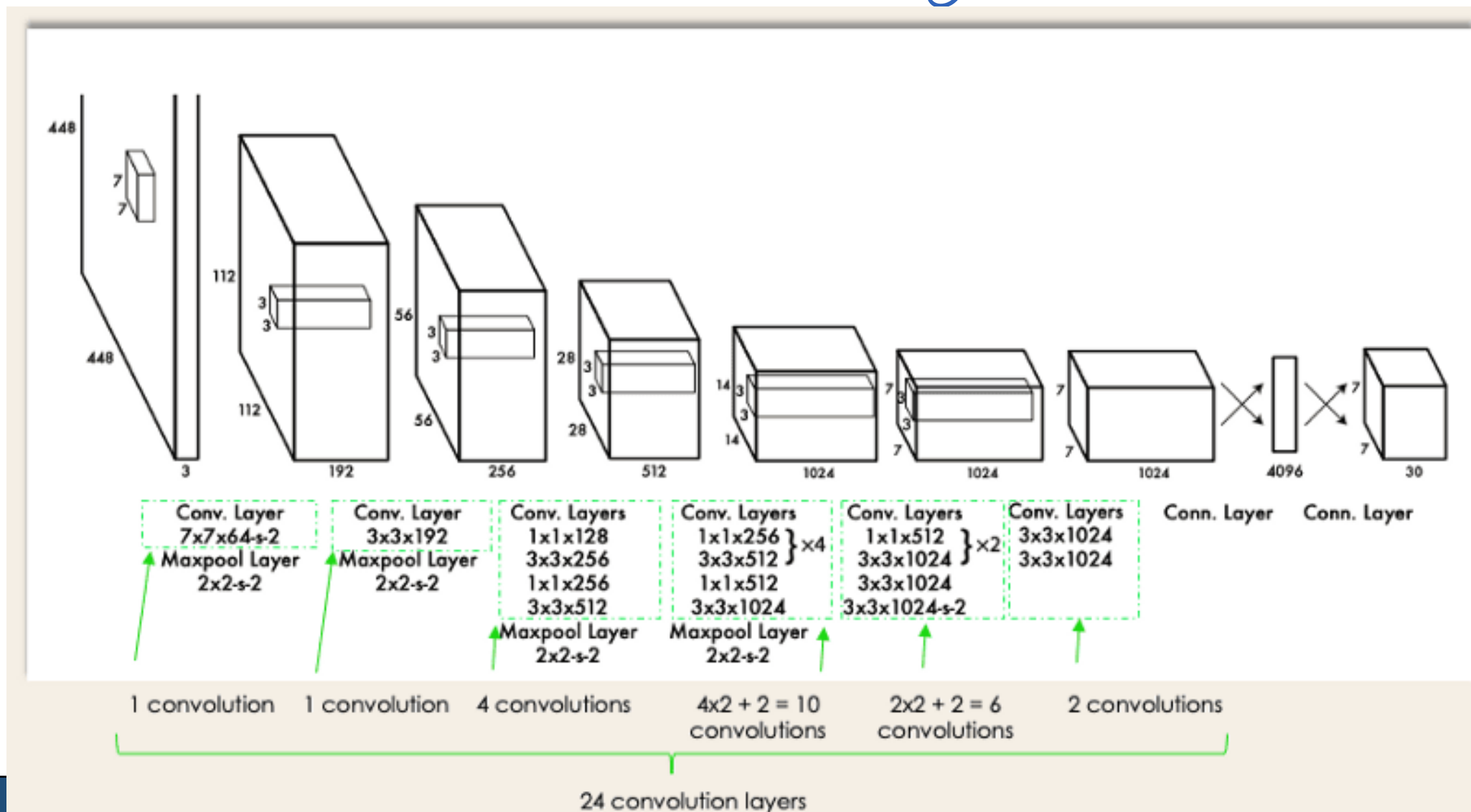
faster RCNN

25xage



YOLO

1st stage

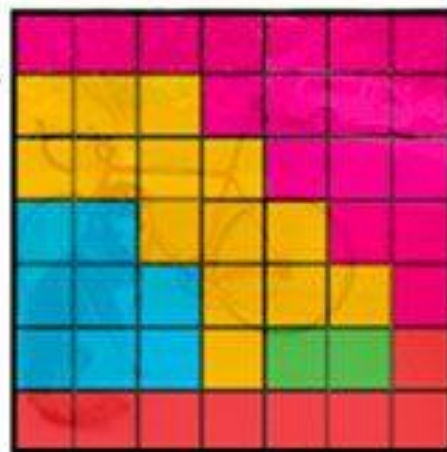




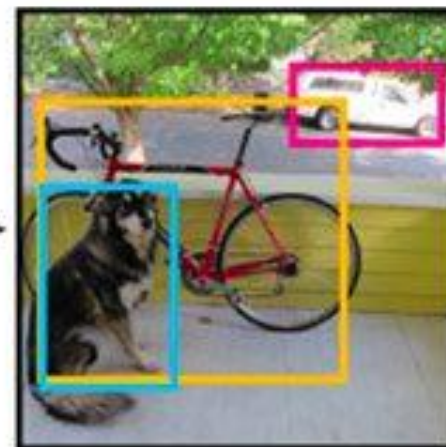
$S \times S$ grid on input



Bounding boxes + confidence



Class probability map



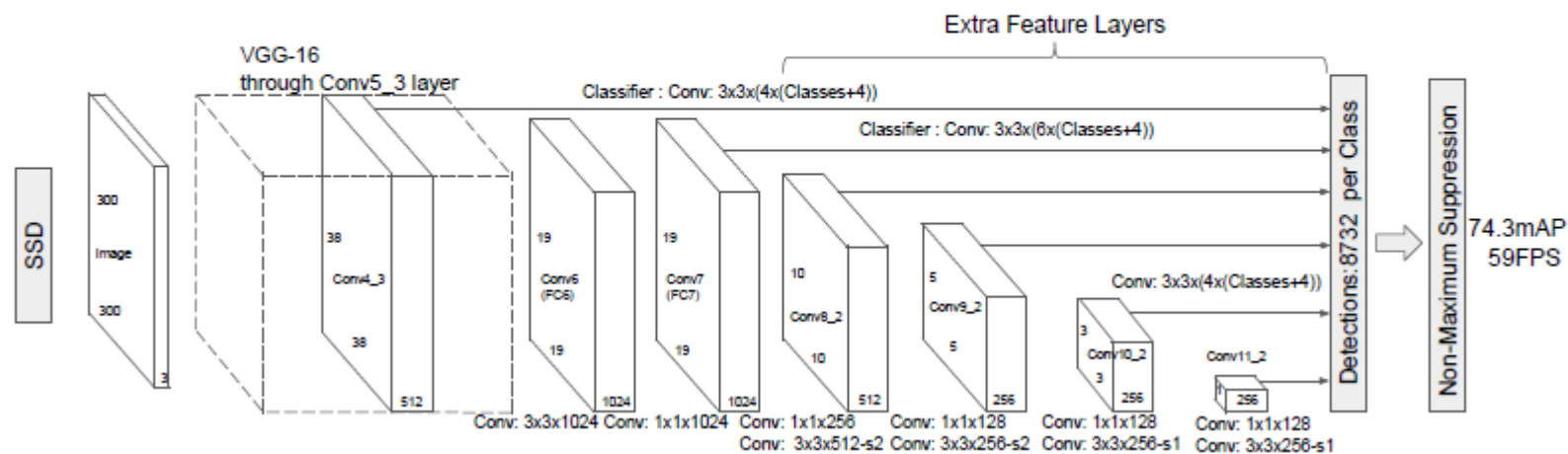
Final detections

Yolo S
M
L
X

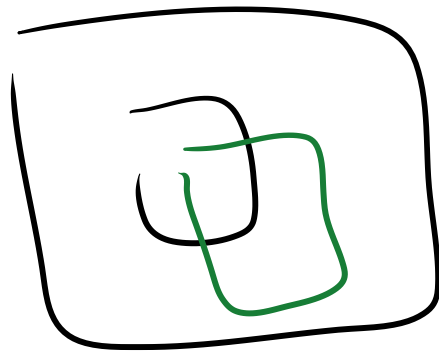
SSD

Single Shot Detector

Liu et al.



IoU →



$IoU \geq \underline{th} \rightarrow TP$

