Traffic Signs Detection
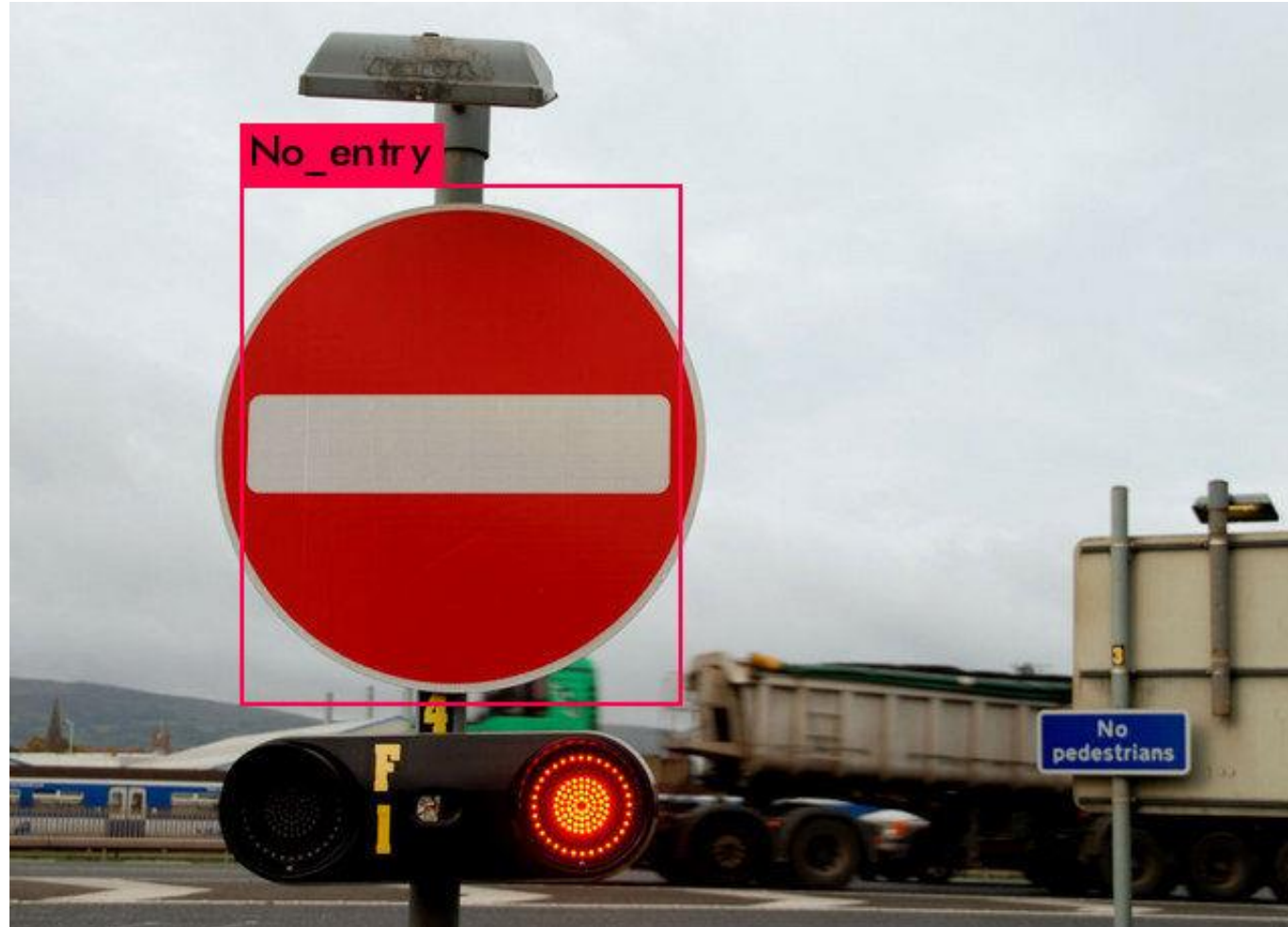
Object Detection

Classification | Localization | Object detection
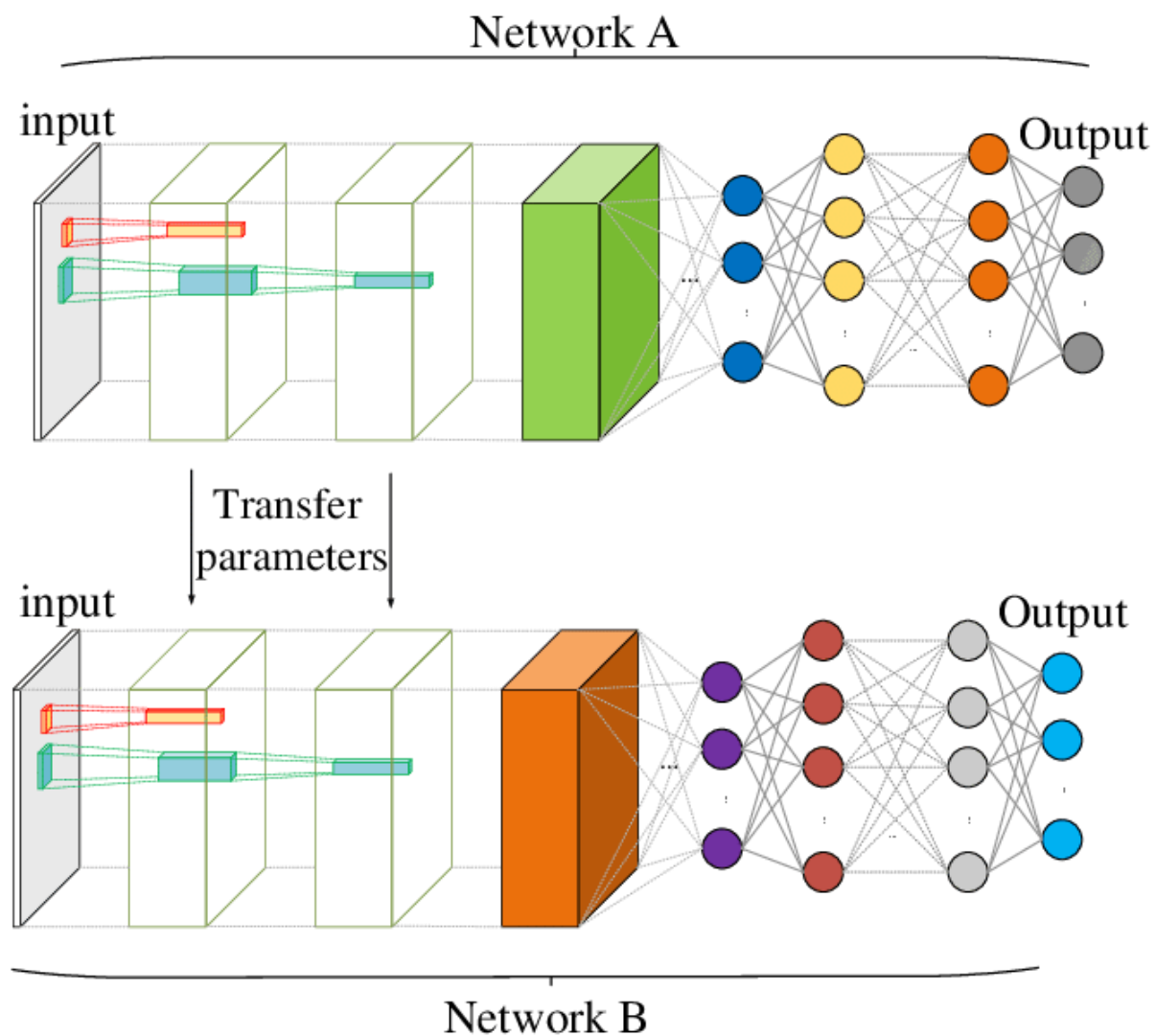
STOP sign, DETOUR sign | | STOP sign, DETOUR sign

Haar Cascade
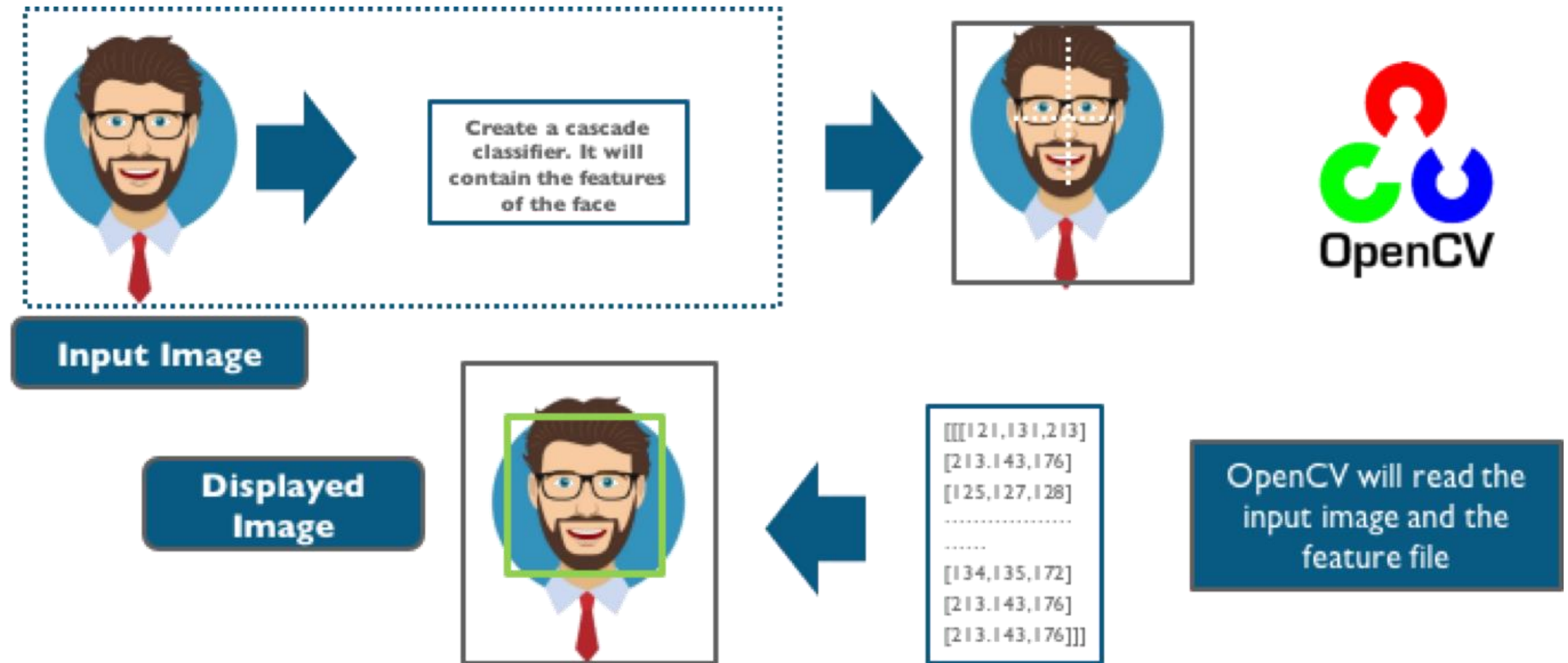
Transfer Learning

Yolo V4

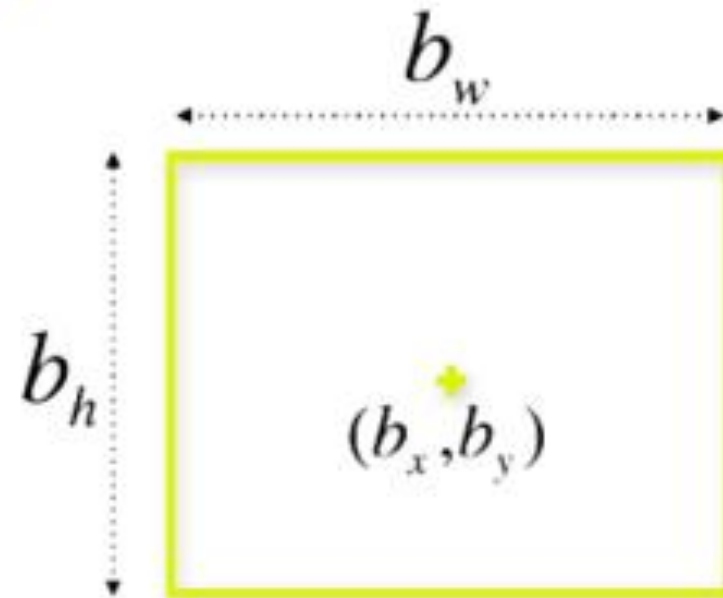S × S grid on input
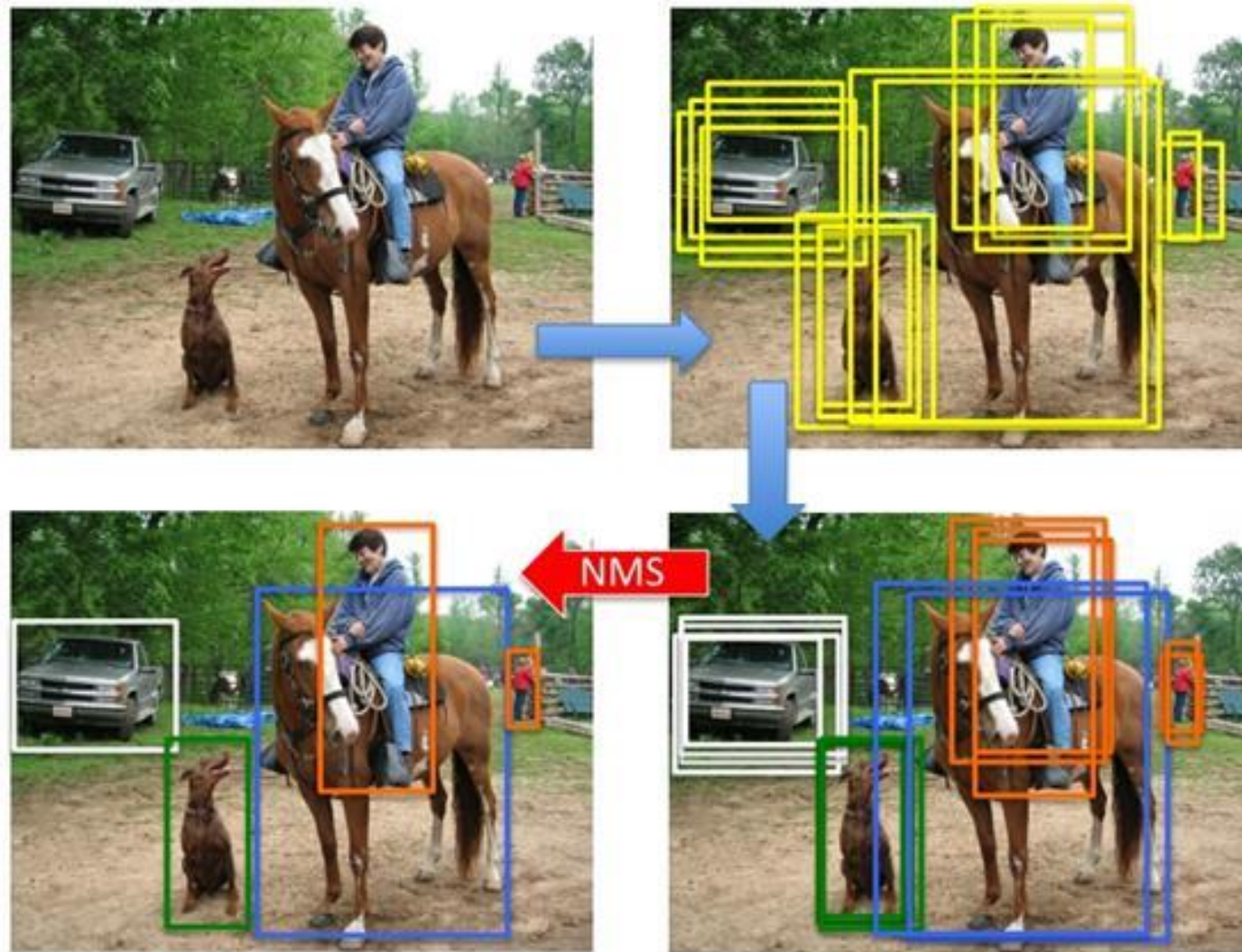
Bounding boxes + confidence

Class probability map

Final detections
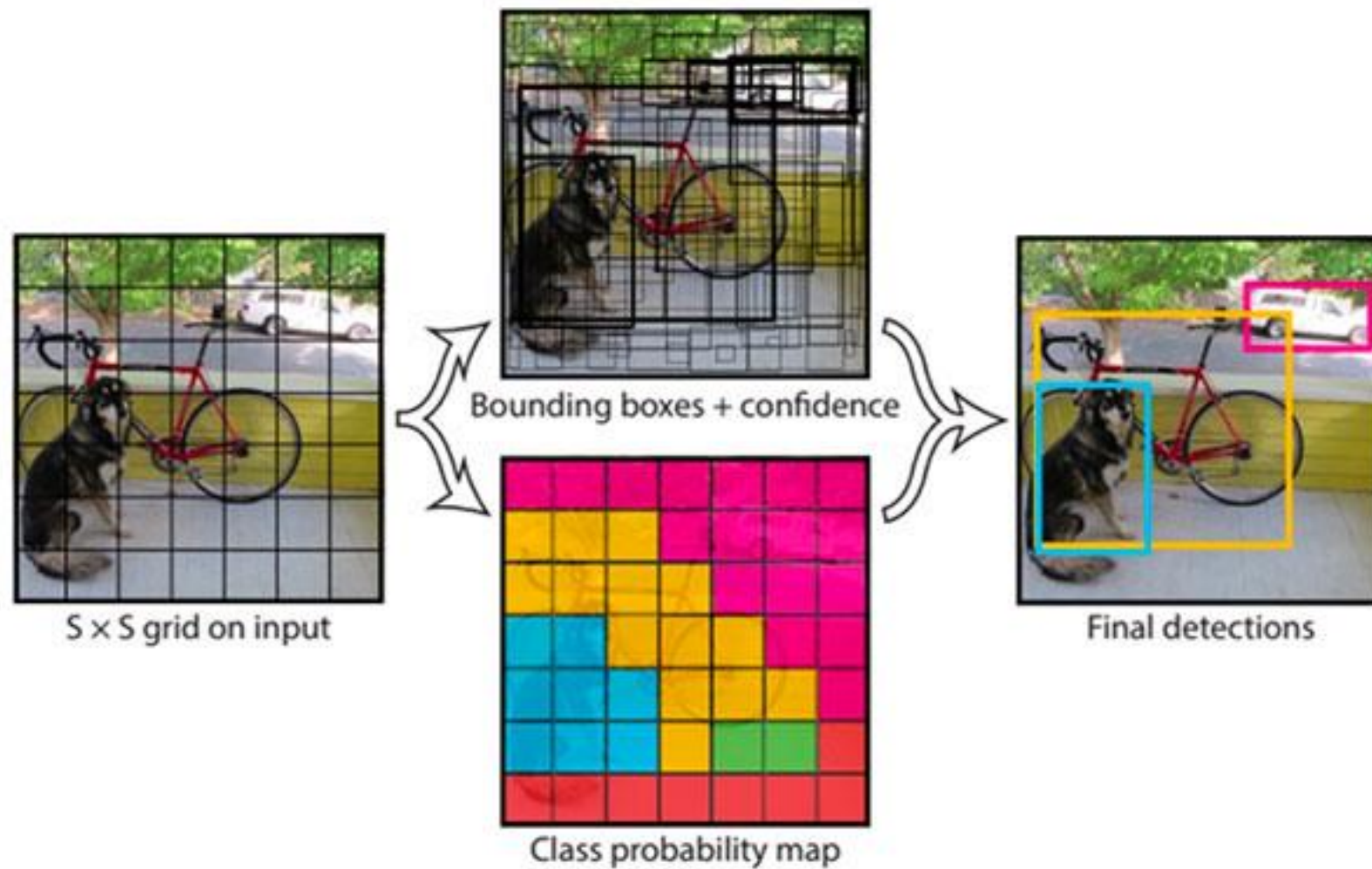
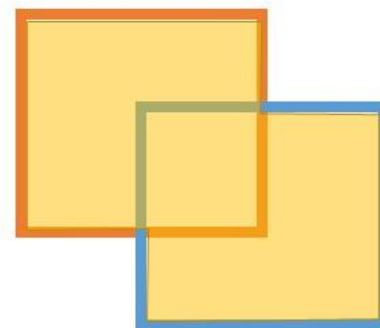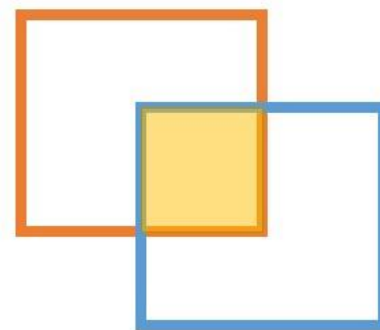# Bounding Box

$$y = (p_c, b_x, b_y, b_h, b_w, c)$$

Non-Max Suppression

Intersection Over Union

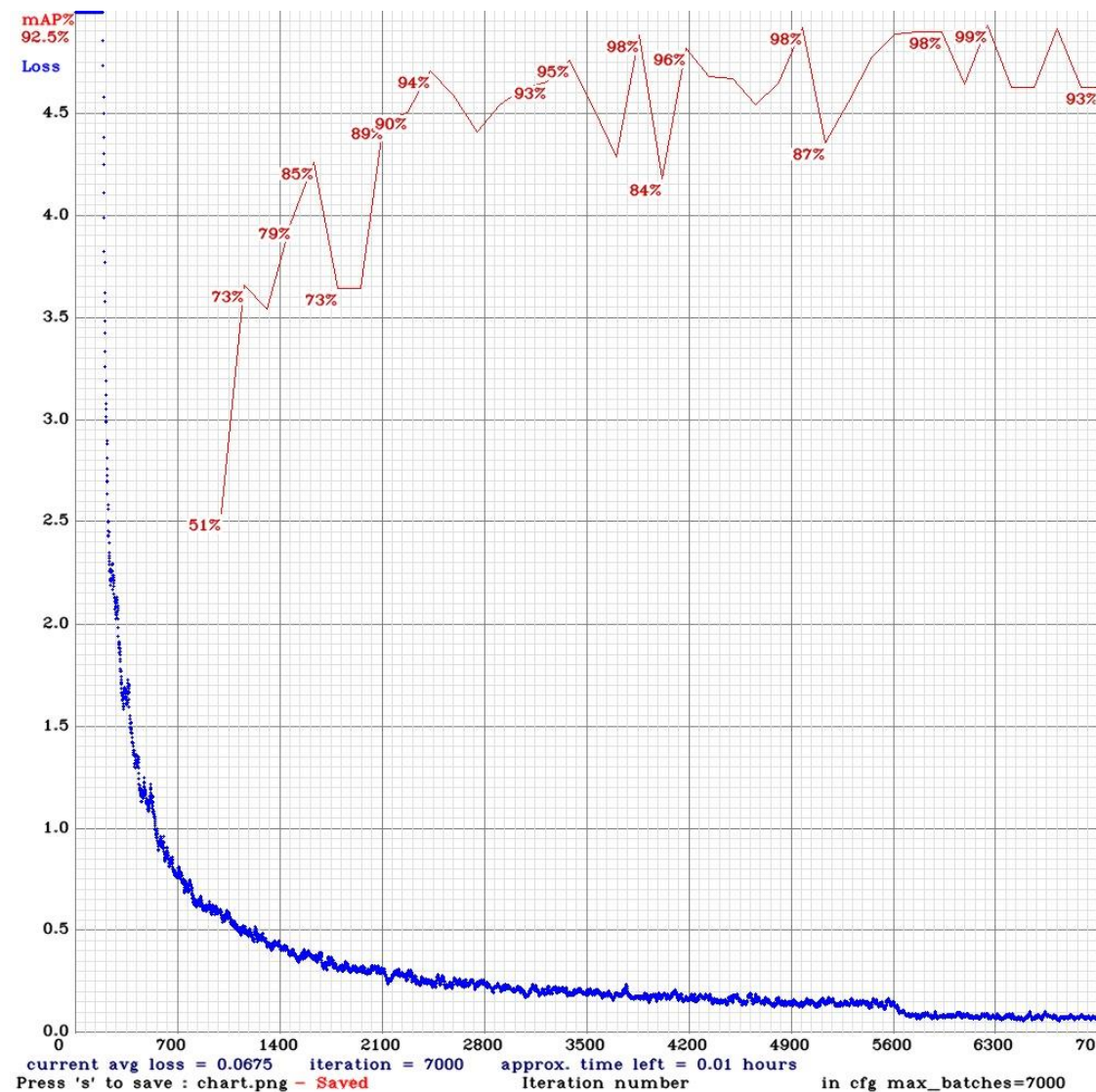$$Intersection\ over\ Union\ (IoU) = \frac{Area\ of\ Overlap}{Area\ of\ Union}$$

Prediction
Ground-truth

Dataset

Model Training Accuracy

Testing & Real-Time Results