Evaluation Metrics

Evaluation Metrics

Intersection over Union

- Example: Ship Detection
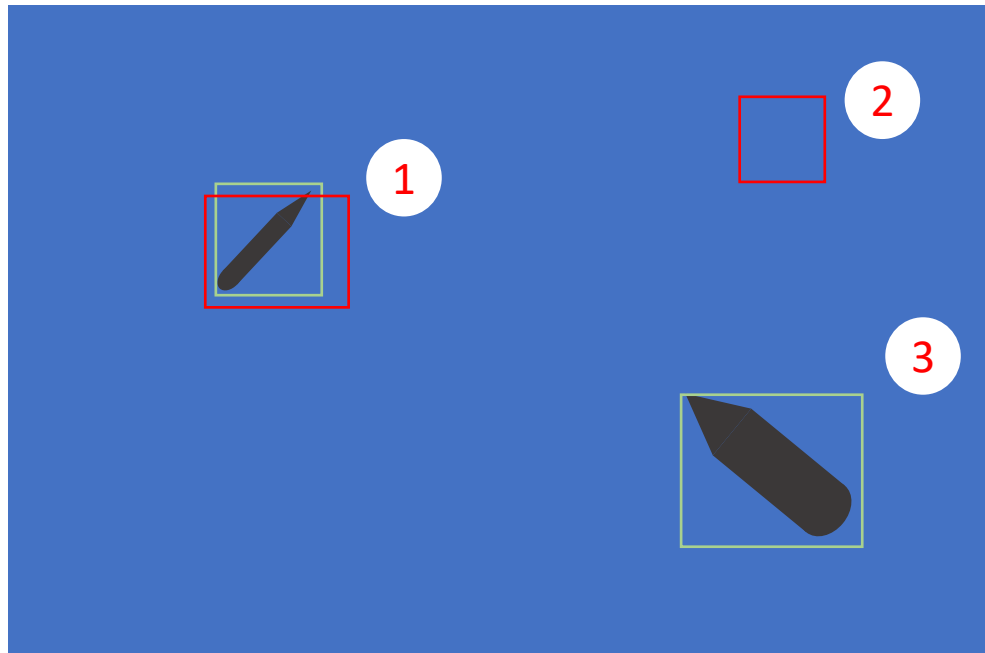
☐ **Ground truth**

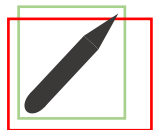☐ **Prediction**

① **TP**

② **FP**

③ **FN**

Object Detection: Accuracy Metrics

- How correct is a prediction?
- Intersection over Union (IoU)
    - Determine FP or TP

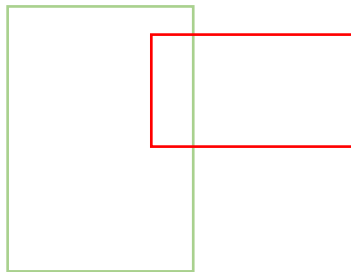$$IoU = \frac{Intersection}{Total\ combined\ area} = $$

1

Object Detection: Accuracy Metrics

Intersection over Union
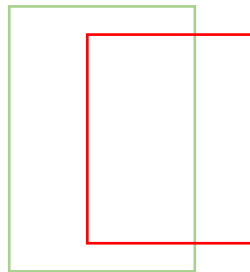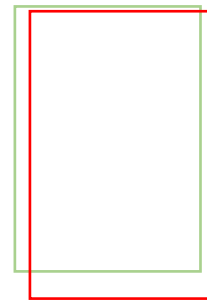
Evaluation Metrics

- percent of correctly predicted pixels divided by overall pixels
- usually reported
    - for each class separately and
    - globally across all classes

$$Pixel\ accuracy = \frac{TP + TN}{TP + TN + FP + FN}$$