

How many selected items are relevant?

$$\text{Precision} = \frac{\text{true positives}}{\text{true positives} + \text{false positives}}$$

How many relevant items are selected?

$$\text{Recall} = \frac{\text{true positives}}{\text{true positives} + \text{false negatives}}$$

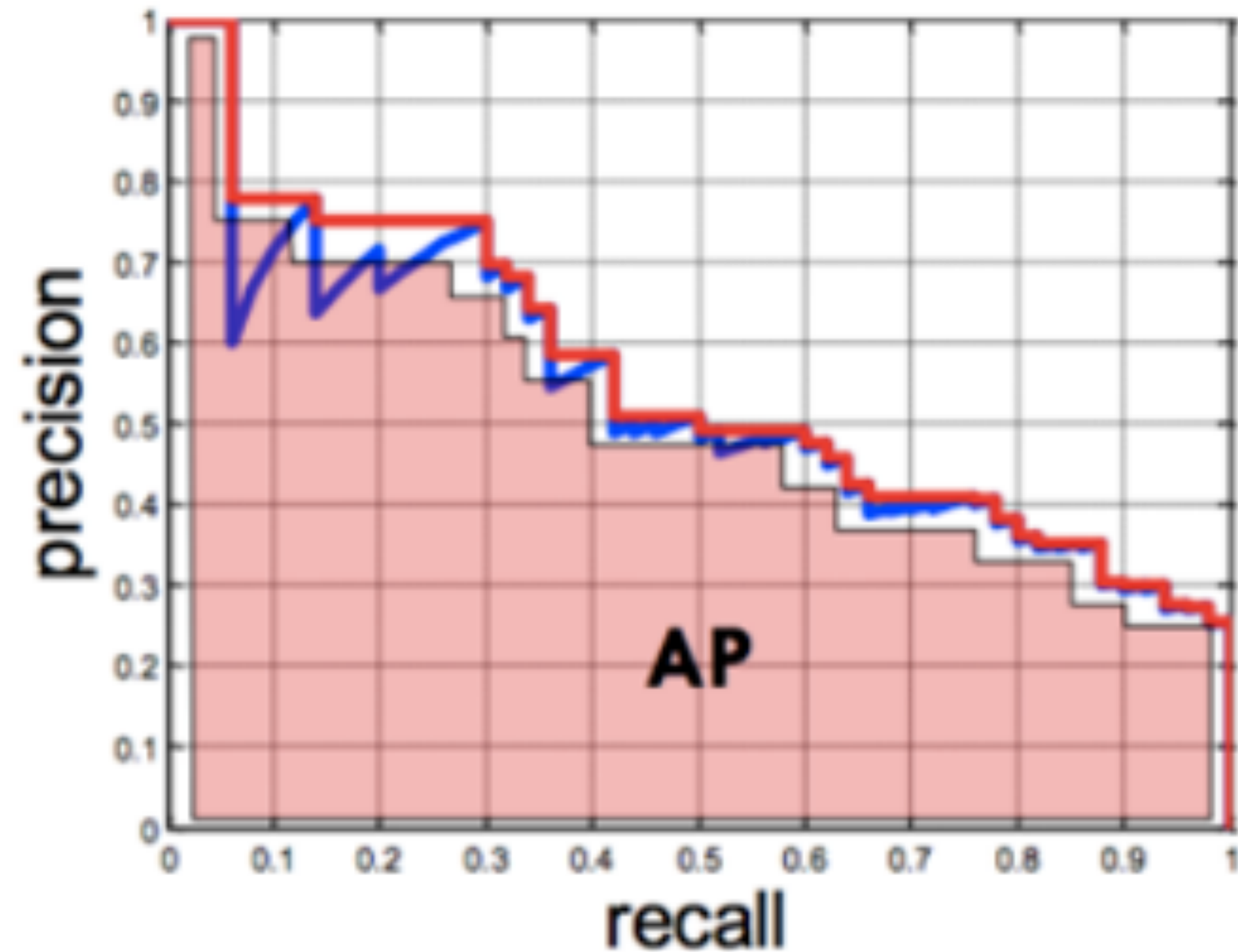
https://en.wikipedia.org/wiki/Precision_and_recall

- mAP or AP:

$$AP = \frac{1}{10} \sum AP^{IoU}$$

$$IoU \in \{0.5, 0.55, 0.6, \dots, 0.9, 0.95\}$$

$$AP^{IoU} = \frac{1}{11} \sum_{r \in \{0, 0.1, \dots, 1.0\}} p(r)$$



<https://sites.google.com/site/hyunguk1986/personal-study/-ap-map-recall-precision>