

target

| | | response | |
|---|---|------------|-----------|
| | | 0 | 1 |
| 0 | 0 | CR TN | FA FP |
| | 1 | MISS FN | HIT TP |

$$\text{Precision} = \frac{TP}{TP + FP}$$

, recall
TPR

$$\text{FPR} = \frac{FP}{FP + TN}$$
$$\frac{TN}{TN + FN}$$

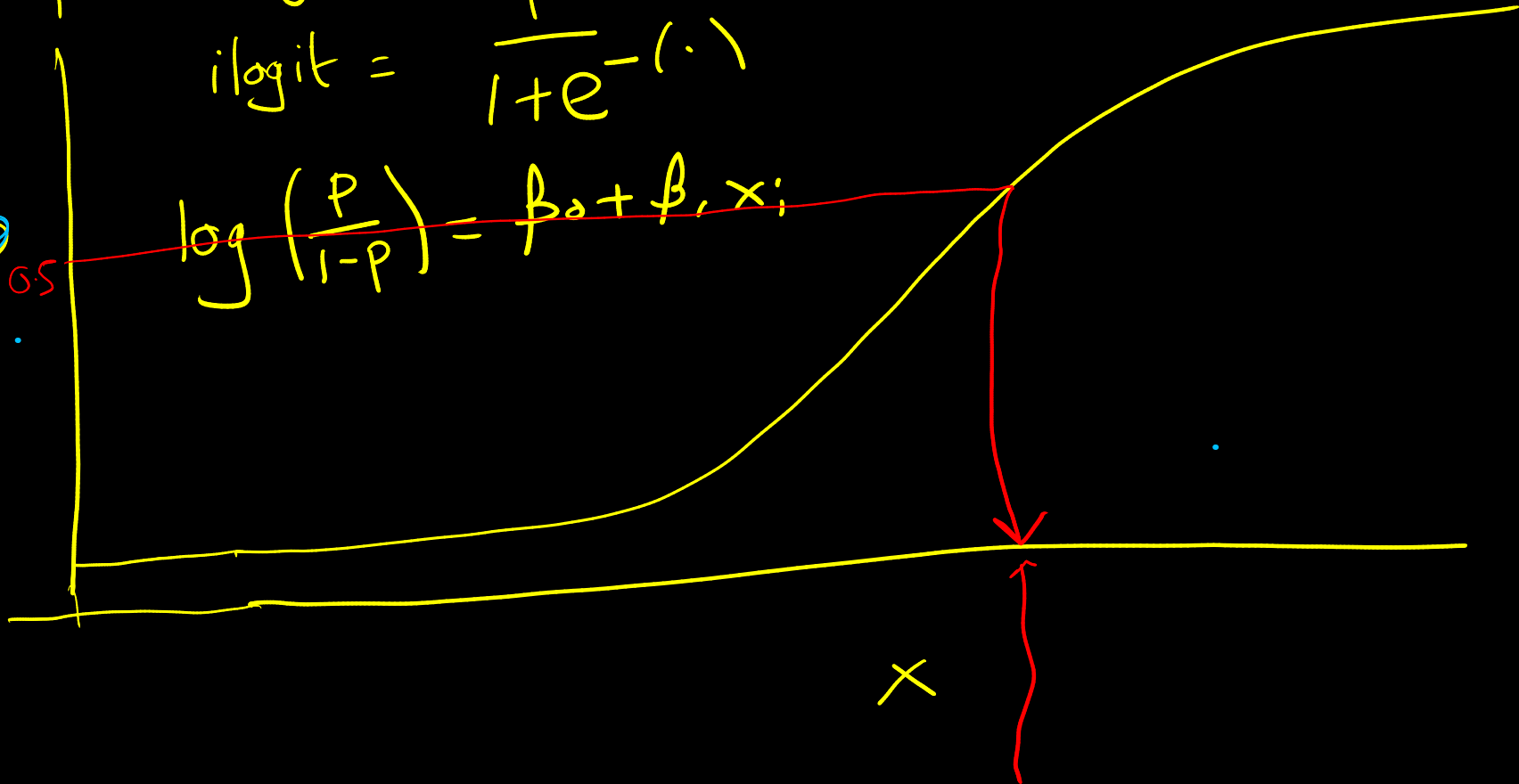
$$= \frac{TP}{TP + FN}$$

$$p = \text{ilogit}(\beta_0 + \beta_1 x_i)$$

$$\text{ilogit} = \frac{1}{1 + e^{-(\cdot)}}$$

$$\log\left(\frac{p}{1-p}\right) = \beta_0 + \beta_1 x_i$$

$p_{0.5}$



max margin classifier

