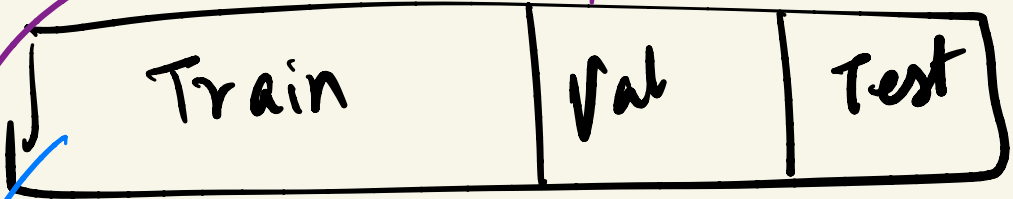


Evaluation



$$X \rightarrow Y = \{0,1\}$$

→ Train param on this

→ Decide our hyper

Performance ↑ Test

Validation

	y^*	\hat{y}
x_1	0	1
.	0	0
.	1	1
.		

	0	1
x_k	1	0

The confusion matrix

Predicted Labels

	1	0
1	true positive	false positive
0	false negative	true negative

→ # correct

$$Acc = \frac{tp + tn}{tp + tn + fp + fn}$$

→ # total

The confusion matrix
True Labels

Predicted Labels

	1	0
1	true positive	false positive
0	false negative	true negative

$$\text{Precision} = \frac{tp}{tp + fp}$$

$$\text{Recall} = \frac{tp}{tp + fn}$$

$$F1 = \frac{2PR}{P + R}$$