






























Truth										
Prediction	Dog	Dog	Dog	No Dog	Dog	No Dog	Dog	No Dog	Dog	Dog

Truth										
Prediction	Dog	Dog	Dog	No Dog	Dog	No Dog	Dog	No Dog	Dog	Dog
	✓	✗	✓		✓		✗		✓	✗

True Positive = 4

False Positive = 3













Truth										
Prediction	Dog	Dog	Dog	No Dog	Dog	No Dog	Dog	No Dog	Dog	Dog
				✗		✓		✗		

True Negative = 1

False Negative = 2













Truth										
Prediction	Dog	Dog	Dog	No Dog	Dog	No Dog	Dog	No Dog	Dog	Dog
	✓	✗	✓	✗	✓	✓	✗	✗	✓	✗

How many we got right? → 5

Accuracy → $5/10 \rightarrow 0.5$



Truth										
Prediction	Dog	Dog	Dog	No Dog	Dog	No Dog	Dog	No Dog	Dog	Dog
	✓	✗	✓		✓		✗		✓	✗

True Positive = 4











False Positive = 3

Precision is out of all dog predictions how many you got it right?

Precision = $4 / 7 = 0.57$

Precision = $TP / (TP + FP)$



Truth										
Prediction	Dog	Dog	Dog	No Dog	Dog	No Dog	Dog	No Dog	Dog	Dog
	✓	✗	✓		✓		✗		✓	✗

Recall is out of all **dog truth** how many you got it right?

Total Dog truth samples = 6

True Positive = 4











$$\text{Recall} = 4 / 6 = 0.67$$

$$\text{Recall} = TP / (TP + FN)$$



For **precision**, think about **predictions** as your base

For **recall**, think about **truth** as your base

Truth										
Prediction	Dog	Dog	Dog	No Dog	Dog	No Dog	Dog	No Dog	Dog	Dog
				✗		✓		✗		

$$\text{Precision} = 1 / 3 = 0.33$$

$$\text{Recall} = 1 / 4 = 0.25$$

