

Actual	Predict
P	P
P	N
P	P
N	P
N	N
N	P
P	N
P	P
P	P
N	N

$$\text{Accuracy} = (TP + TN) / All$$

$$= (4 + 2) / 10$$

$$= 6 / 10$$

$$= 0.6$$

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

$$= \frac{4}{(4 + 2)}$$

$$= \frac{4}{6}$$

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

$$= \frac{4}{(4 + 2)}$$

$$= \frac{4}{6}$$

$$\text{Specificity} = \frac{TN}{N}$$

$$= \frac{2}{4}$$

$$= 0.5$$

Confusion Matrix

Actual \ Predict	$C_1$	$\neg C_1$	
$C_1$	4	2	6 <span style="margin-left: 10px;">P</span>
$\neg C_1$	2	2	4 <span style="margin-left: 10px;">N</span>
	6	4	10
	$P'$	$N'$	

$$F_1 = \frac{2PR}{P+R} = \frac{2(4/6)(4/6)}{\frac{4}{6} + \frac{4}{6}}$$

$$= \frac{2}{3}$$