

## Quiz 9

Actual	Predicted
2	2
p	p
p	2
p	p
2	p
2	2
2	p
2	p
p	2
p	p
p	p

Actual / Predicted	p	N	total
p	4 TP	2 FN	6
N	2 FP	2 TN	4
total	6	4	

$$\begin{aligned}
 \text{Accuracy} &= (TP + TN) / \text{All} \\
 &= \frac{4 + 2}{10} \\
 &= 0.6 \quad \#
 \end{aligned}$$

$$\begin{aligned}
 p = \text{Precision} &= \frac{TP}{TP + FP} = \frac{4}{4 + 2} \\
 &= \frac{4}{6} \\
 &= 0.667 = 66.7\% \quad \#
 \end{aligned}$$

$$\begin{aligned}
 R = \text{Recal} &= \frac{TP}{TP + FN} = \frac{4}{4 + 2} \\
 (\text{sensitivity}) &= \frac{4}{6} \\
 &= 0.667 = 66.7\% \quad \#
 \end{aligned}$$

$$\text{sensitivity} = TP / p$$

$$= 4/6$$

$$= 0.667 = 66.7\% \quad \#$$

$$\text{specificity} = TN / N$$

$$= 2/4$$

$$= 0.5 = 50\% \quad \#$$

$$F_1 = \frac{2PR}{p+r} = \frac{2(0.667 \times 0.667)}{0.667 + 0.667}$$

$$= 0.667 = 66.7\% \quad \#$$