

Ground Truth

| Actual | Predicted |
|--------|-----------|
| N      | N         |
| p      | p         |
| p      | N         |
| p      | p         |
| N      | p         |
| N      | N         |
| N      | p         |
| p      | N         |
| p      | p         |
| p      | p         |

TN x

TP x

FN x

TP x

FP x

TN x

FP x

FN x

TP x

TP x

| Actual class \ Predicted class | yes    | no     | Total |
|--------------------------------|--------|--------|-------|
| yes                            | TP = 4 | FN = 2 | P = 6 |
| no                             | FP = 2 | TN = 2 | N = 4 |
| Total                          | P' = 6 | N' = 4 | 10    |

$$\text{Accuracy} = \frac{(TP+TN)}{\text{All}} = \frac{(4+2)}{10} = \frac{6}{10}$$

$$\text{Precision} = P = \frac{TP}{TP + FP} = \frac{4}{4 + 2} = \frac{4}{6} = 0.67$$

$$\text{Recall} = R = \frac{TP}{TP + FN} = \frac{4}{4 + 2} = \frac{4}{6} = 0.67$$

ความแม่นยำ

$$\text{Sensitivity} = \frac{TP}{P} = \frac{4}{6} = \frac{2}{3} = 0.67$$

ความจำเพาะ

$$\text{Specificity} = \frac{TN}{N} = \frac{2}{4} = \frac{1}{2} = 0.5$$

F1-measure

$$F_1 = \frac{2PR}{P+R} = \frac{2(0.67)(0.67)}{0.67+0.67} = 0.67$$