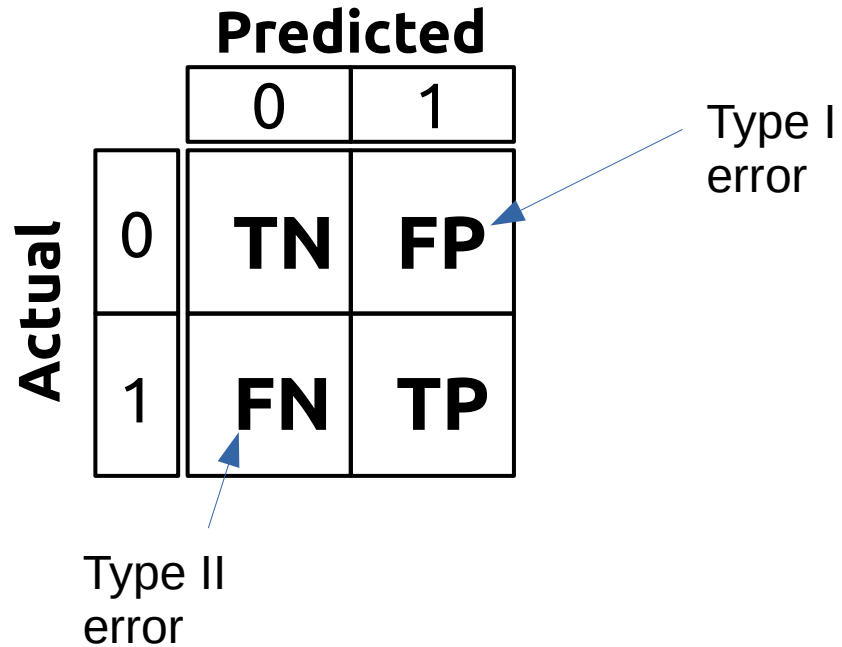


# Confusion matrix

		Predicted	
		0	1
Actual	0	TN	FP
	1	FN	TP

Type I error

Type II error

A confusion matrix diagram. The matrix is a 2x2 grid. The columns are labeled 'Predicted' with values 0 and 1. The rows are labeled 'Actual' with values 0 and 1. The cells contain 'TN' (True Negative), 'FP' (False Positive), 'FN' (False Negative), and 'TP' (True Positive). A blue arrow points from the text 'Type I error' to the 'FP' cell. Another blue arrow points from the text 'Type II error' to the 'FN' cell.

$$N^{+} = TP + FN$$

$$N^{-} = TN + FP$$

$$N = N^{+} + N^{-}$$

Accuracy

$$\mathbf{A} = \frac{\mathbf{TP} + \mathbf{TN}}{\mathbf{N}}$$

True negative rate

$$\mathbf{TNR} = \frac{\mathbf{TN}}{\mathbf{TN+FP}}$$

True positive rate

$$\mathbf{TPR} = \frac{\mathbf{TP}}{\mathbf{TP+FN}}$$

(aka Recall)

Precision

$$\mathbf{P} = \frac{\mathbf{TP}}{\mathbf{TP+FP}}$$