

































Bayes Rule

$$P(Y|X) = \frac{P(X|Y)P(Y)}{P(X)}$$
Which is shorthand for:

$$(\forall i, j)P(Y = y_i|X = x_j) = \frac{P(X = x_j|Y = y_i)P(Y = y_i)}{P(X = x_j)}$$

































