The Bayes in Naive Bayes

$$P(A \mid B) = \frac{P(B \mid A)P(A)}{P(B)}$$

$$P(\text{category} \mid x_1, x_2, x_3) = \frac{P(x_1, x_2, x_3 \mid \text{category})P(\text{category})}{P(x_1, x_2, x_3)}$$

The Bayes in Naive Bayes

$$P(A \mid B) = \frac{P(B \mid A)P(A)}{P(B)}$$

$$P(\text{category} \mid x_1, x_2, x_3) = \frac{P(x_1, x_2, x_3 \mid \text{category})P(\text{category})}{P(x_1, x_2, x_3)}$$

The Bayes in Naive Bayes

$$P(A \mid B) = \frac{P(B \mid A)P(A)}{P(B)}$$