Naive Bayes

$$P(\omega_1 \dots \omega_n) = P(\omega_1) P(\omega_2 | \omega_1) \dots P(\omega_n | \omega_{n-2}, \omega_{n-1})$$
$$= P(\omega_1) P(\omega_2) \dots P(\omega_n) \leftarrow \text{Naive}$$

$$P(A|B) = \frac{P(B|A) P(A)}{P(B)} \leftarrow \text{Bayes}$$

$$P(T|\omega_1) = \frac{P(\omega_1|T) P(T)}{P(\omega_1)} \cdot \frac{P(\omega_2|T) P(T)}{P(\omega_2)}$$

* Need training set and test set