

$$\begin{aligned}
 & p_I(w_1 n | w_1, \dots, w_{n-1}) \\
 &= \begin{cases} \alpha(w_n | w_1, \dots, w_{n-1}) & \text{if } c(w_1, \dots, w_n) > 0 \\ \gamma(w_1, \dots, w_{n-1}) p_I(w_n | w_2, \dots, w_{n-1}) & \text{otherwise} \end{cases}
 \end{aligned}$$