

- Recall: base on count of histories $N_{1+}(\bullet w)$ in which word may appear, not raw counts.

$$\alpha(w_n | w_1, \dots, w_{n-1}) = \frac{N_{1+}(\bullet w_1, \dots, w_n) - D}{\sum_w N_{1+}(\bullet w_1, \dots, w_{n-1}, w)}$$

- Again, three different values for D (D_1 , D_2 , D_{3+}), based on the count of the history w_1, \dots, w_{n-1}