

- Number of possible extensions of a history w_1, \dots, w_{n-1} in training data

$$N_{1+}(w_1, \dots, w_{n-1}, \bullet) = |\{w_n : c(w_1, \dots, w_{n-1}, w_n) > 0\}|$$

- Lambda parameters

$$1 - \lambda_{w_1, \dots, w_{n-1}} = \frac{N_{1+}(w_1, \dots, w_{n-1}, \bullet)}{N_{1+}(w_1, \dots, w_{n-1}, \bullet) + \sum_{w_n} c(w_1, \dots, w_{n-1}, w_n)}$$