# Special Case of N-Gram LM: Unigram LM

- Generate text by generating each word INDEPENDENTLY
- **$p(w_m | w_1, ..., w_{m-n+1} ..., w_{m-1}) = p(w_m)$: History didn't matter!**
- How to estimate a unigram LM?
  - Text data: d
  - Maximum Likelihood estimator:

**Count of word w in d**

$$p_{ML}(w|d) = \frac{c(w,d)}{\sum_{w' \in V} c(w',d)}$$

**Total Counts of all words in d**