Definition of a SLM

- Vocabulary set: V={t1, t2, ..., tN}, N terms
- Sequence of M terms: s= w1 w2 ...wM , wi $\in V$
- Probability of sequence s:
 - p(s)=p(w1 w2 ... wM)=?
- How do we compute this probability? How do we "generate" a sequence using a probabilistic model?
 - Option 1: Assume each sequence is generated as a "whole unit"
 - Option 2: Assume each sequence is generated by generating one word each time
 - Each word is generated independently
 - Option 3: ??

