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- 1) No. The bag-of-words approach ignores the order of the words and therefore cannot distinguish between examples with different order.
- 2) No. Bigram or trigram based approach can “remember” only constant amount of history (local ordering) and therefore cannot encode information about “b” that appeared or not appeared before arbitrary length words (global ordering).
- 3) No. Convolutional nets are still ngrams based representation and therefore can only learn local ordering.