

Challenge

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1. No, because bag-of-words approach sums the word vectors, ignoring the order of the words (in this case – characters), which is why a BOW approach will not be able to learn this language.
2. Bigram or Trigrams support only local ordering – here we need global ordering, which is why this approach would not be able to learn the language.
3. Same as before, convolutional networks are based on n-grams, which again, supports only local ordering, hence it would not learn this language, which requires global ordering to be learned.