

- The two languages can't be distinguished using the bag-of-words approach. Since the bag-of-words approach can't capture the order of the words, and the difference between a bag of words in the first language is that b appears before c.
- The two languages can't be distinguished using a bigram or a trigram model. Since those approaches can capture only the order of three or two characters backwards accordingly. Since a sequence between c and b could be longer than two or three letters, to distinguish between the two languages a longer n-gram is required.
- The two languages can be distinguished using convolution networks if they have the right window sizes and the right strides, since convolution networks can capture the desired n-grams of the sequences with the right window sizes and the right strides and predict correctly the language.