Altering the x value impacted the output in a funny way, in the 50th most probable word, I started seeing funny outcomes, like just a "!" as a word, which now makes sense because we now know LM models like GPT 2 see words as tokens and ! is a token, and since it doesn't really see words as words but more as numbers, I can see how that could have been a probability. But it was interesting because most of the words made sense? What I mean is most of the words it replaced the last word with made sense in the context of the sentence, which is interesting.

It would also be interesting to think about how we could make the prompt about switching each noun of the text , and I would need to think of a way to make the LM understand what a noun is, but if it was for that specific text I would add all of them in the prompt and ask GPT 2 to change each of these nouns to the 7th highest probability, so in that case I would do it manually, by naming each noun in that text. But if we were to think about even further and just try to give it any text and make it change the nouns with the 7th highest probability that would be more complicated since a noun is just a series of tokens to the LM and it doesn't really know what a noun is in that sense. What could be done instead is maybe make the LM learn basic sentence structure, like subject + verb + object, and in this case that would also put the noun at the end of the sentence , but maybe by making it learn different sentence structures it could eventually be able, by logic, to decipher where the noun is in sentences. This is just a hypothesis of course but it could be fun to explore further.