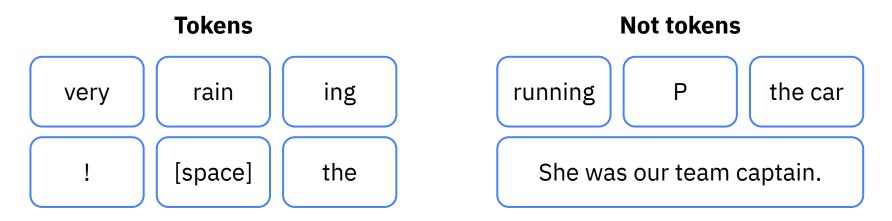
today's learning targets

Students will be able to:

- Define **token** and explain the importance of tokens in LLMs.
- Explain how LLMs produce human-sounding text.
- Explain concerns about hallucinations in LLMs.



Large language models predict the next **token** in a sentence.



Token: A piece of a sentence that contains meaning. It can be a word, part of a word, or a punctuation mark.

act out an LLM

Together, we will act out the process of an LLM generating a sentence.

Step 1: We feed the prompt to the LLM. It generates the first token of the response.

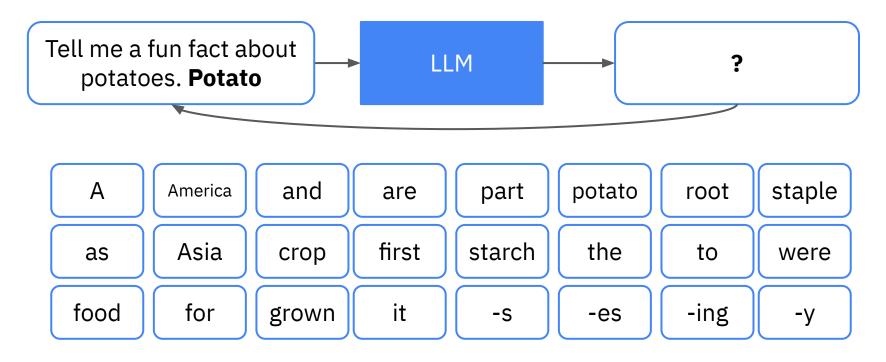


Step 2: The prompt plus the first generated token go back into the LLM.



act out an LLM

Vote! Which token should be generated next?





Text we generated: Potato_____

• Is there a way to know if the sentence we produced was correct?

Hallucination: An incorrect piece of text generated by an LLM.



This activity is adapted from part of Melanie Mitchell's talk, The Future of Artificial Intelligence (21:57-23:16).

https://www.youtube.com/watch?v=HAiXT1mGTXc&t=313s