Markov Chain Text Generator

Intro to CS

Driver Name:		Navigator Name:	

Getting Started

DRIVER ONLY:

1. Have this lab open, and ***you will be typing***.
2. Research will be conducted on your station, and you will complete the lab.

NAVIGATOR ONLY: Have this lab open only as reference; *you will not be typing*. Provide guidance on how the driver should proceed when necessary.

Lab Goal

In this lab, you will further explore how some text generating technology works and the ethical implications of such technology.

Use this space below to:

- jot down some notes from the start of class
- make some predictions on how realistic your generated text will be
- write down some ideas on what ethical concerns arise

Part 1: Selecting Input & Generating Text

1. Brainstorm with your partner some ideas on input text. Come to an agreement on one idea and various texts from that source as your input text.

- *An optional reading, if you're interested:* *https://blog.demofox.org/2019/05/11/markov-chain-text-generation/*

2. Use the Markov Chain Text Generator here: https://projects.haykranen.nl/markov/demo/.

Q1. Describe your sources of input text, and why you chose these sources.	

Q2. Copy and paste the generated text.

Q3. How “realistic” is your generated text? Explain your opinion.	

Part 2: Unintended Consequences

3. As with many other computing innovations that drive innovation, the applications of Markov Chain technology can also have unintended consequences. Here are some similar text-generated products for you to explore: • https://twitter.com/HNTitles • https://www.reddit.com/r/SubredditSimulator/	
Q4. What are some potential **beneficial** effects of such technology? You may illustrate with examples.	
Q5. What are some potential **harmful** effects of such technology? You may illustrate with examples.	
4. Applications of more complicated and sophisticated Markov models can be used in machine learning, as an alternative to random sampling. If you’re interested, read more here: https://wiki.pathmind.com/markov-chain-monte-carlo. Object and facial recognition is an example of **computer vision**, an exploding sector of artificial intelligence that takes advantage of machine learning. **Watch** this YouTube video on **computer vision**: **https://youtu.be/eQLcDmfmGB0 (8 min)**	
Q6. In your own words, what is computer vision?	
Q7. Describe **two** applications of computer vision that have been -- or have the potential to be -- beneficial to you directly and/or the world.	
Q8. Compare the algorithms computer vision uses to the ones used in the Markov Chain Text Generator. What similarities and differences do you see?	

Excellent work :)

Submit in Google Classroom!

Turn in