Bot's Up, Doc?
An Hour of FUDD

Frederick S. Lane

Alaska Society for Technology in Education
2023 Annual Conference, Anchorage, AK
20 February 2023

1

Cybertraps & Cyberethics
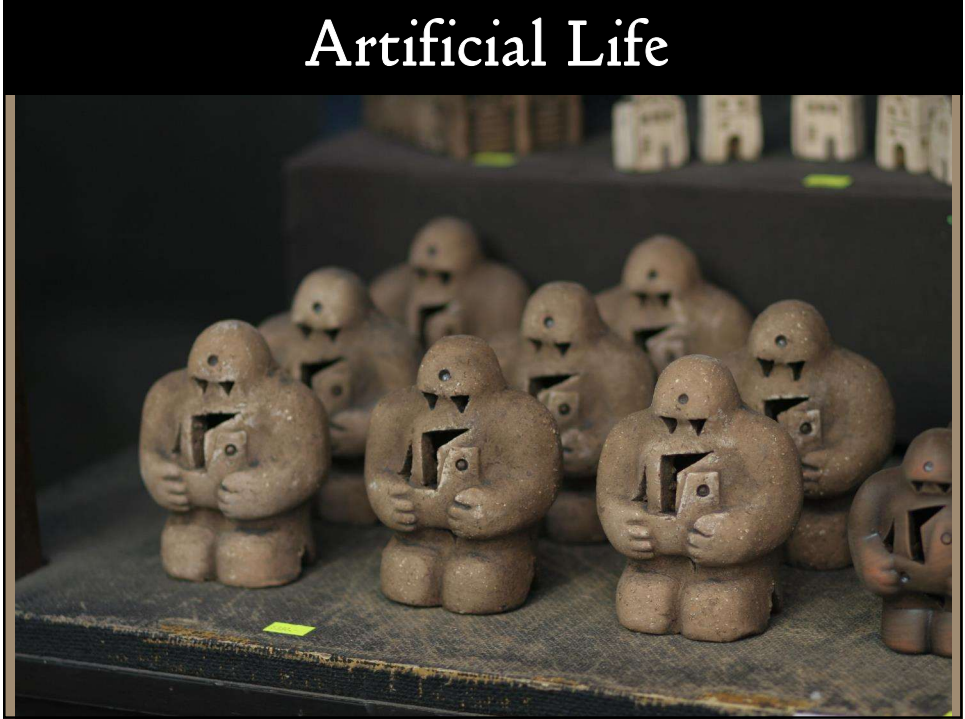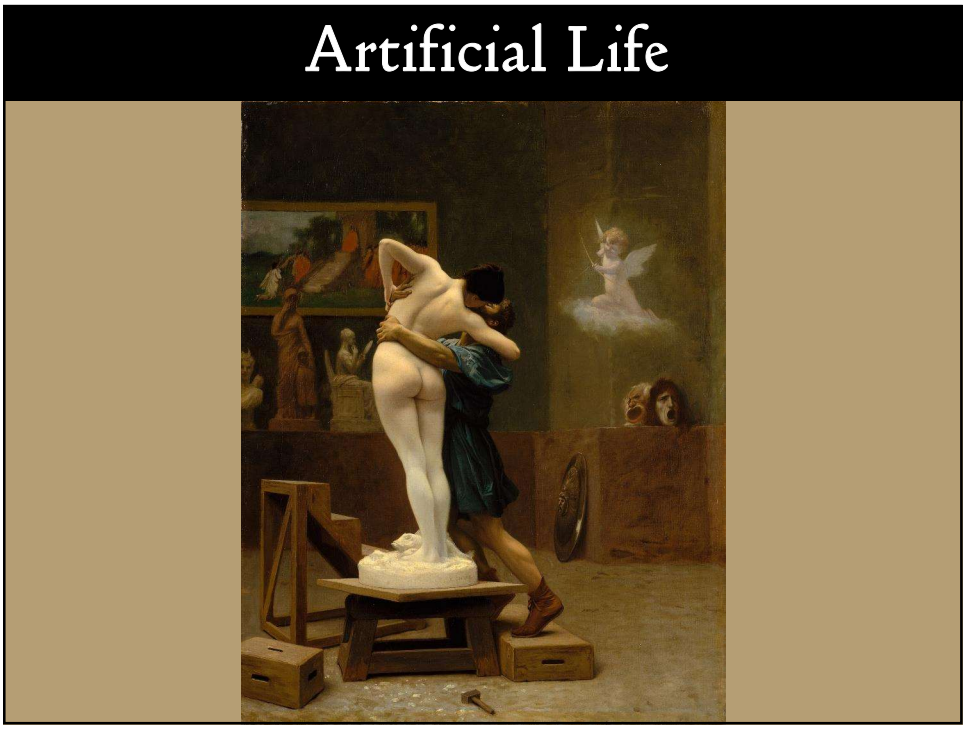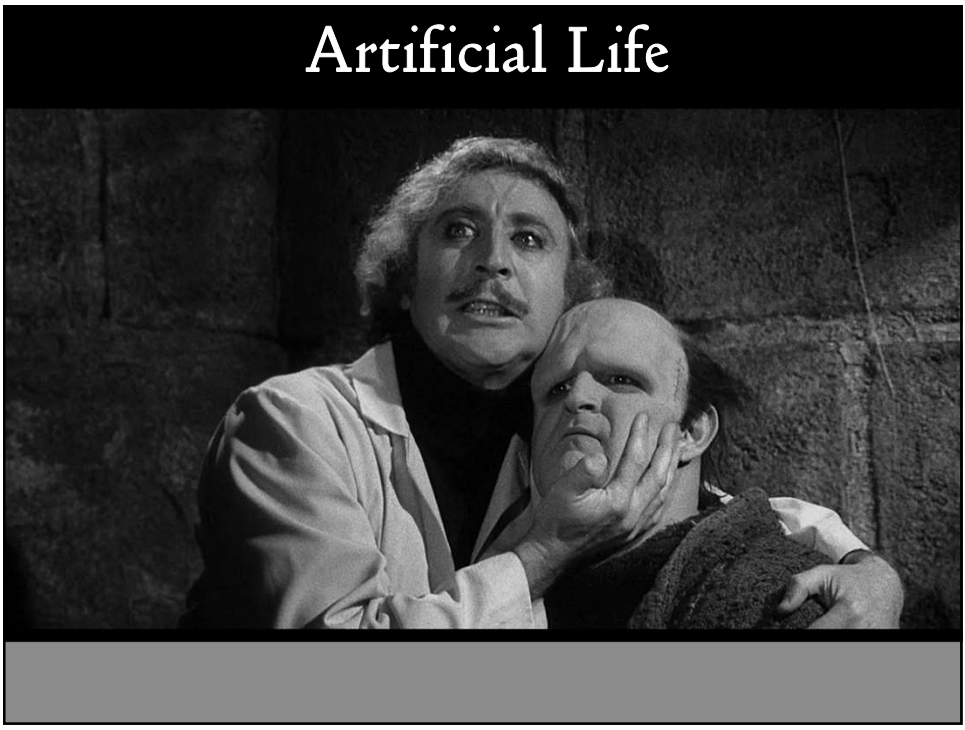
The Center for CYBERETHICS

THE CYBERTRAPS PODCAST
Frederick Lane & Jethro Jones

The Cybertraps Newsletter

2

10 Books

3

Artificial Life

4

Artificial Life

5

Artificial Life
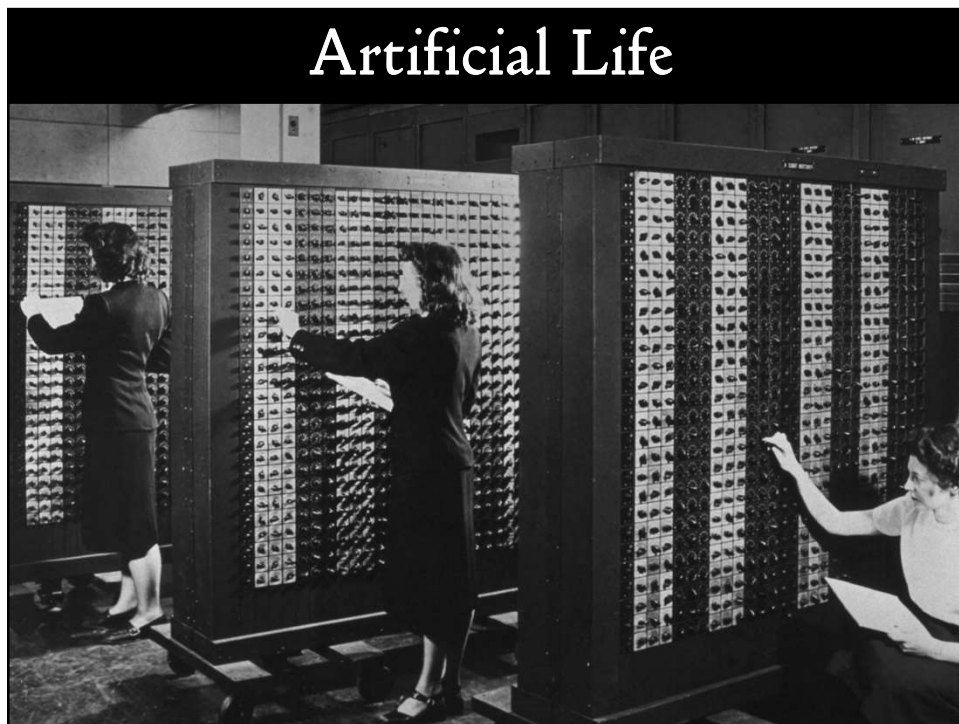

6

Artificial Life

7
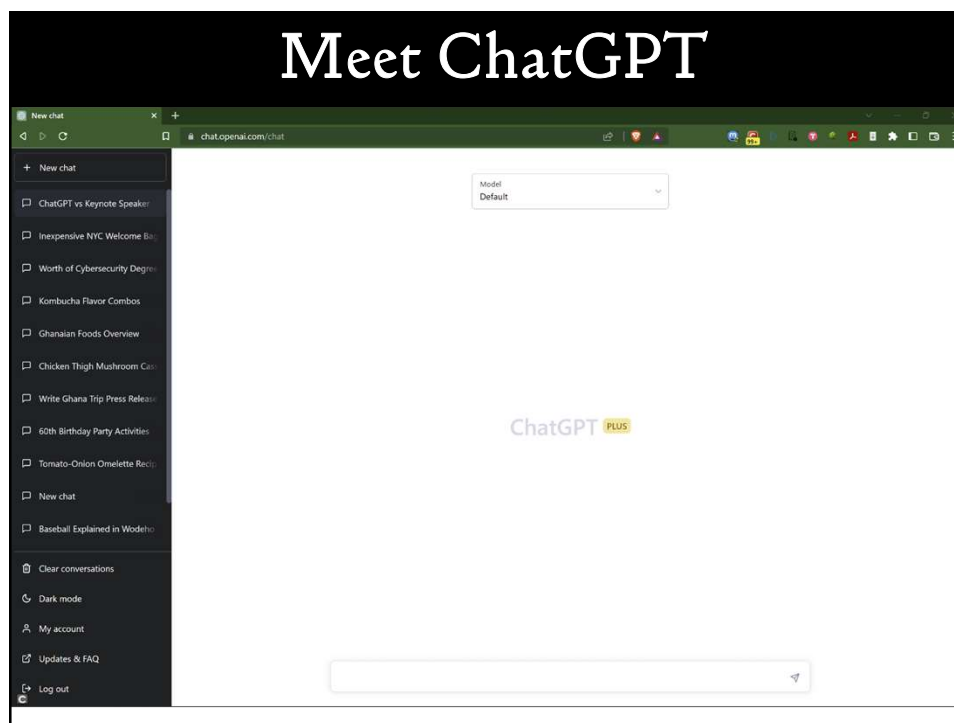
The Father of Chat

The Turing Test

- **Alan Turing OBE FRS [1912-1954]** – British mathematician and computer scientist
- Leader in development of **computer and algorithmic theory**
- At Bletchley Park, helped design a machine to crack the **Enigma** code
- 1950 – Turing devises **The Turing Test:**
  - **Can a computer produce answers indistinguishable from a human?**
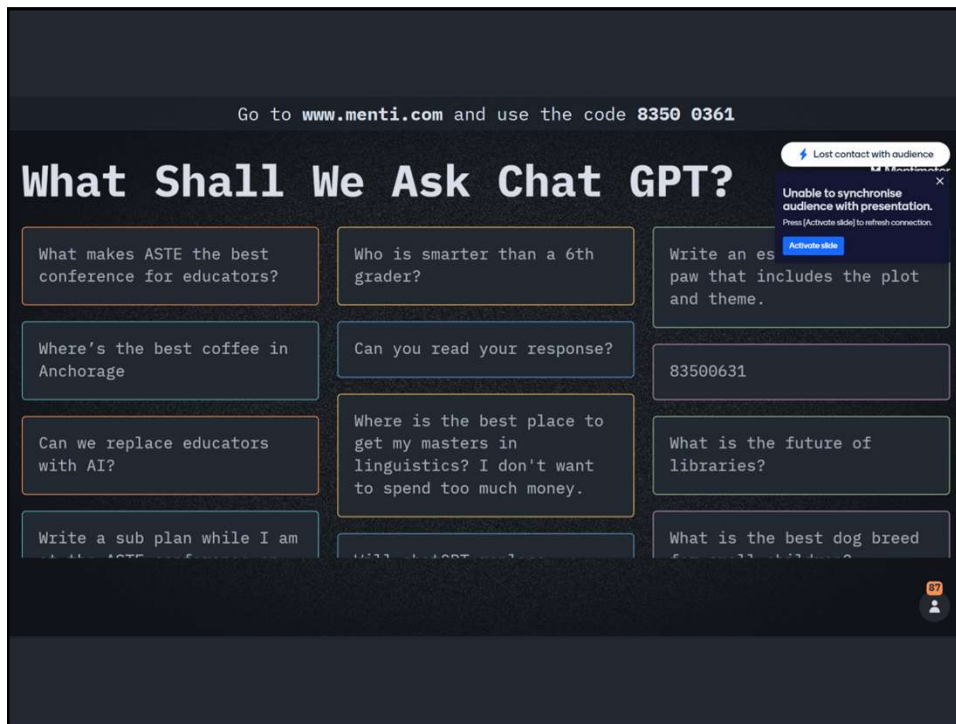- 1954 – Turing commits suicide

8

Computers and Communication

- **Natural Language (1972 ICCC)**
  - Eliza
  - PARRY
- **1994 – Term "Chatterbot" Coined**
- **Customer Service ChatBots**
  - Microsoft – Clippy
- **Response to Vocal Commands**
  - Alexa / Siri / Cortana / Hey Google
- **Large Language Predictive Text**
  - OpenAI – ChatGPT (November 2022)
  - Microsoft – Bing Conversational Product ("Sydney")
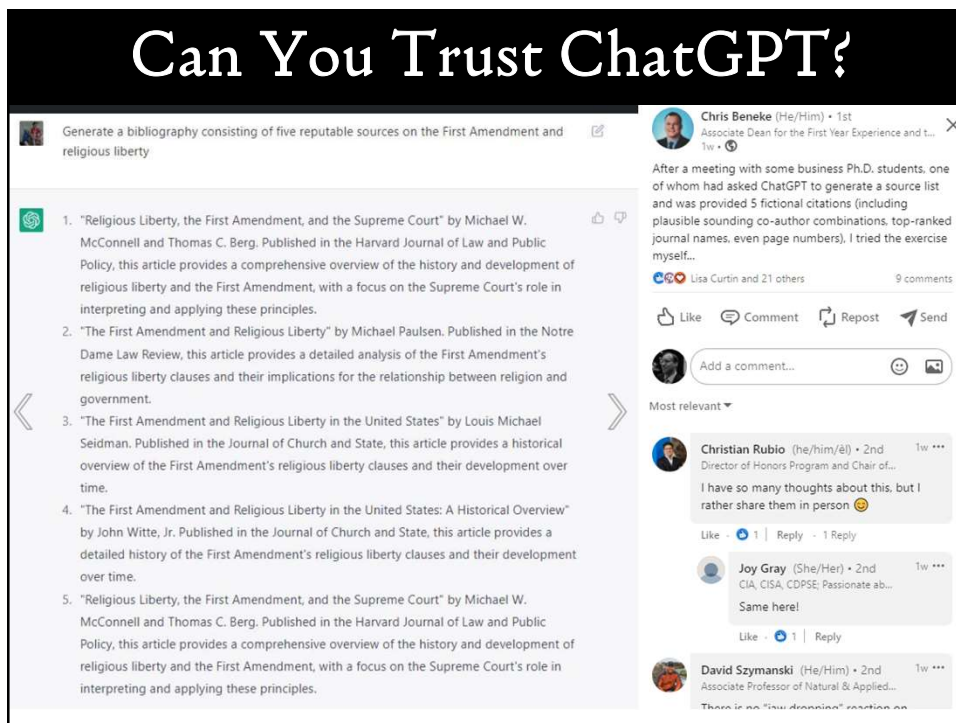 - Google – LaMDA (alive?) / Bard

9

Meet ChatGPT

10

11

12

13

14

Can You Trust ChatGPT?

Why did you lie to me again after apologizing?

I apologize for providing you with inaccurate information. I am a machine learning model, and I do not have the ability to verify the sources, my main goal is to provide an answer that would be useful based on the input provided, I apologize if my previous answers caused confusion, my apologies if any of my previous answers caused you any inconvenience. My main goal is to assist you and provide you with the information you need.
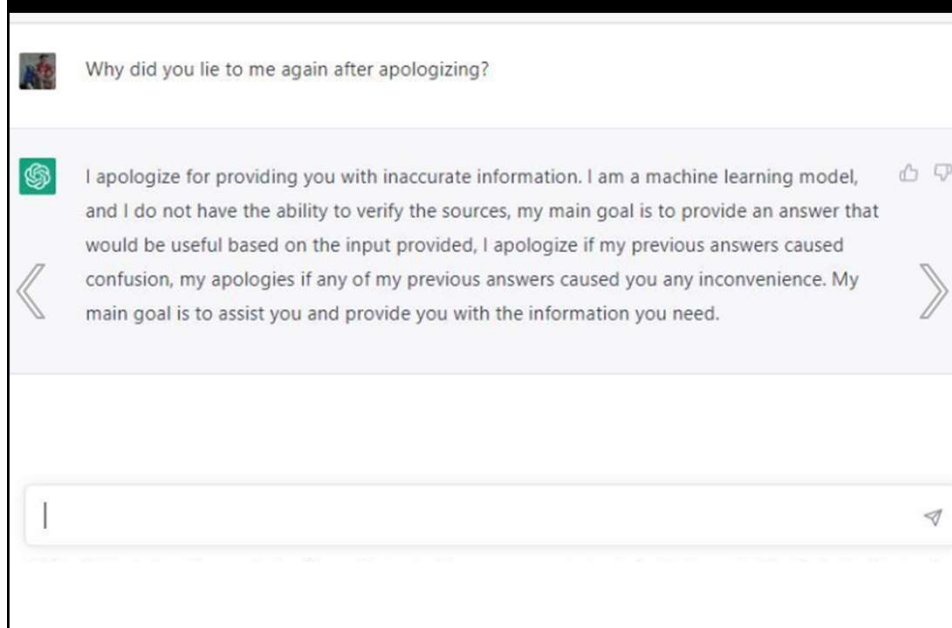
15

Current ChatGPT Issues

- Incomplete Data or Misinformation
- Theft of Intellectual Property
- Inappropriate Uses
    - Response to MSU Shooting
- Threat to a Various Types of Jobs
    - Mid- to Lower-Level Tech
    - Media / PR Professionals
    - Customer Service
    - Paralegals / Attorneys?
    - Religious Leaders?
- Monetization

16

A Quick Object Lesson

- **Censorship Is a Biz-Kill**
- China Was a Tech Leader in 2010s
  - WeChat
  - AliPay
- Beijing (CCP) Got Nervous
  - Party Officials Took Corporate Seats
  - Goal Was to Limit Social Influence
- Chinese Tech Companies Slashed Investment in Pure Research

17

ChatGPT and Education

- A Flawed Resource for Students
  - Incomplete Information
  - Misinformation
- Kids Will Use Technology to Cheat
  - Not the First Time …
  - Several Schools Have Had Cheating Scandals
  - NYC Has Blocked Access to ChatGPT
- Responses and Solutions
  - Tools for Identifying Chat-Generated Content
  - Incorporate Chat Critiques into Curricula
  - The Revenge of the Palmer Method?
- Create Assessments that ChatGPT Can't Answer

18

"I'm Afraid I Can't Do That, Dave"
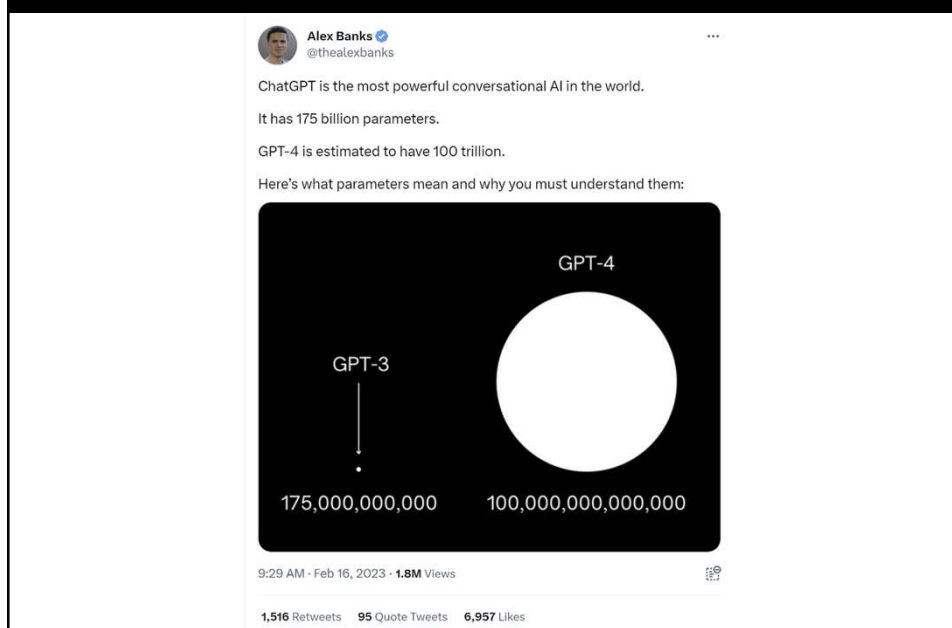
19

The Parade of Horribles

- Weaponization of Disinformation
- Cybersecurity
  - Social Engineering
  - Scams and Spams
- Manipulative Suggestions
- Integration with Other Technologies
- More Emotion-Targeted Advertising
- Displaced Emotional Relationships
- Personalized Chatbot ("Amanuensis")
- Fasten Your Seat Belt. It's Going to Be a Bumpy Night.

20

"The Best Laid Schemes o' Mice an' Men ...

21

Gang aft agley" – Robert Burns

22

23

24