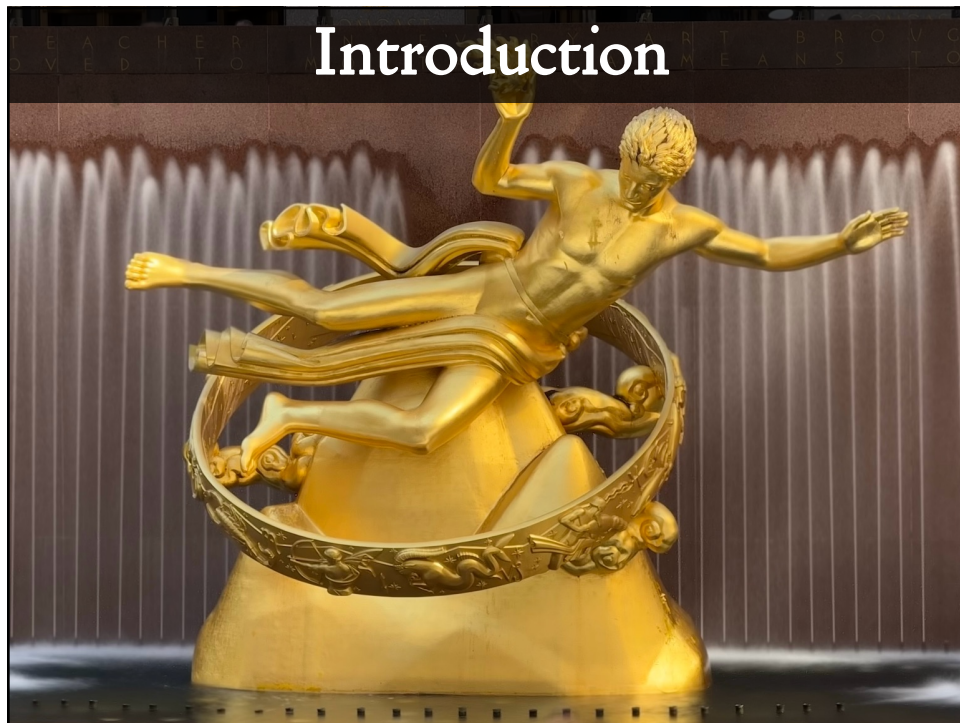




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3

10 Books

FrederickLane.com

Newsletter.Cybertraps.com

CYBERTRAPS FOR EXPECTING MOMS & DADS
PREGNANCY, PRIVACY, AND EARLY PARENTHOOD IN THE DIGITAL AGE
FREDERICK S. LANE

RAISING CYBERETHICAL KIDS
HOW A FAMILY ACCEPTABLE USE POLICY CAN MAKE YOUR YOUNG DIGITAL CITIZENS SAFER, SMARTER, KINDER, AND MORE EMPATHETIC
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FSLane3@gmail.com

CYBERTRAPS FOR EDUCATORS 2.0
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High School **Welcome to the Course**

- **Four Modules:**
 - Intro to the Technology
 - Keeping Up to Date
 - Student Ethics
 - Educator Ethics
- **Each Module Has Three Main Components:**
 - Objectives
 - Activities
 - Learning Portfolio Output
- **Each Module Will Have the Following Activities:**
 - Powerpoint Presentation (asynchronous)
 - Reading Materials
 - Relevant Videos
 - Recent News Articles



5

Can We Create Artificial Life?



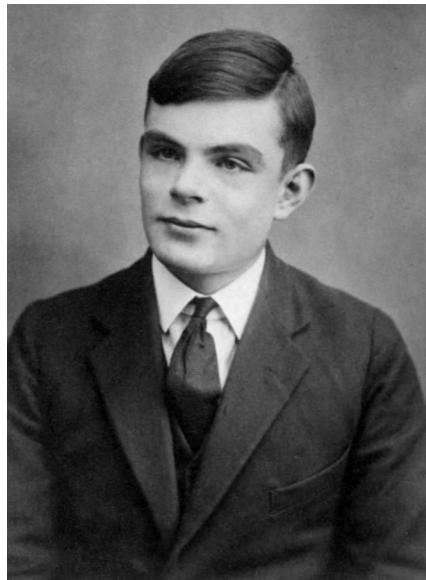
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“Young Frankenstein” (1974)



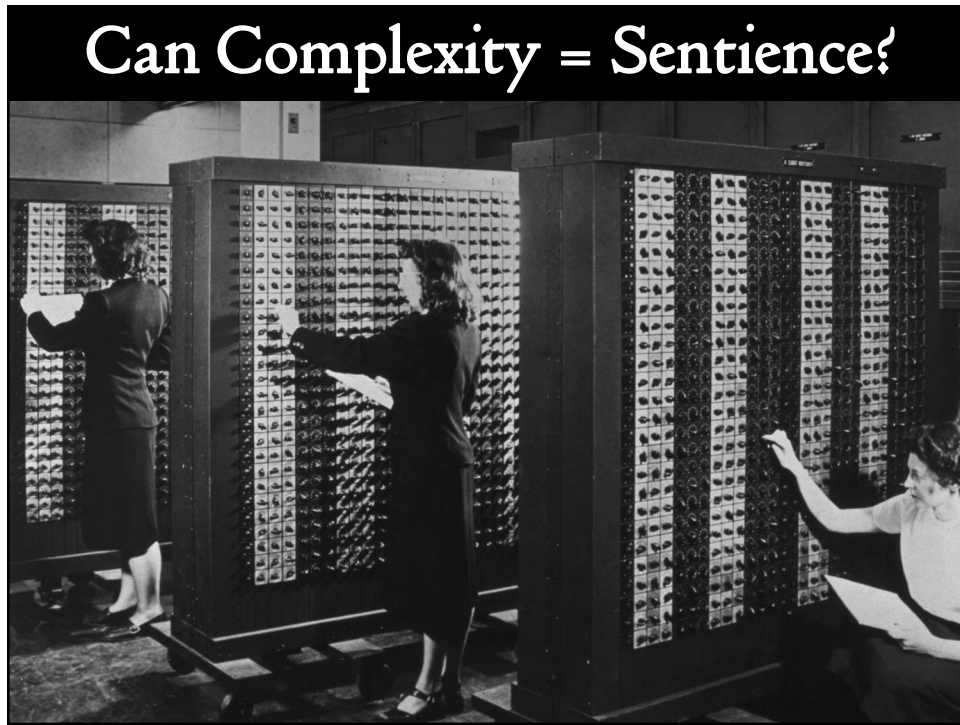
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“The Imitation Game”



- 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



9

The Birth of Computer Communication

- Originally, All Computer Responses Had to Be Programmed
- Natural Language (1972 ICC)
 - Eliza
 - PARRY
- 1994 – Term “Chatterbot” Coined
- Customer Service ChatBots
 - Microsoft – Clippy
- Response to Vocal Commands
 - Alexa / Siri / Cortana / Hey Google

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Two Years of Rapid Change

- Large Language Predictive Text
 - OpenAI – ChatGPT 3.5 (November 2022)
 - Microsoft – Bing AI
 - Google – LaMDA (alive?) / Gemini
 - Meta AI
 - X's Grok
- Rise of Specialized Bots
- Monetization
 - Subscriptions, APIs, Bot Marketplace
- Accelerating Social and Economic Disruptions

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Essential Terminology

- AI / AGI
- Chatbot
- Generative AI
- Hallucinations
- Large Language Model
- Machine Learning
- Natural Language Processing
- Neural Network
- Prompts / Prompt Engineering
- Sentiment Analysis

12

The Fourth Wave of Disruption

- Schools Have Been Through This Before
 - PCs, the Web, and Mobile Devices
- But GenTech Is Bigger and Faster
- Relentless Development and Deployment
- Huge Areas of Uncertainty

HIGH SCHOOL, ROCKLAND, MASS.

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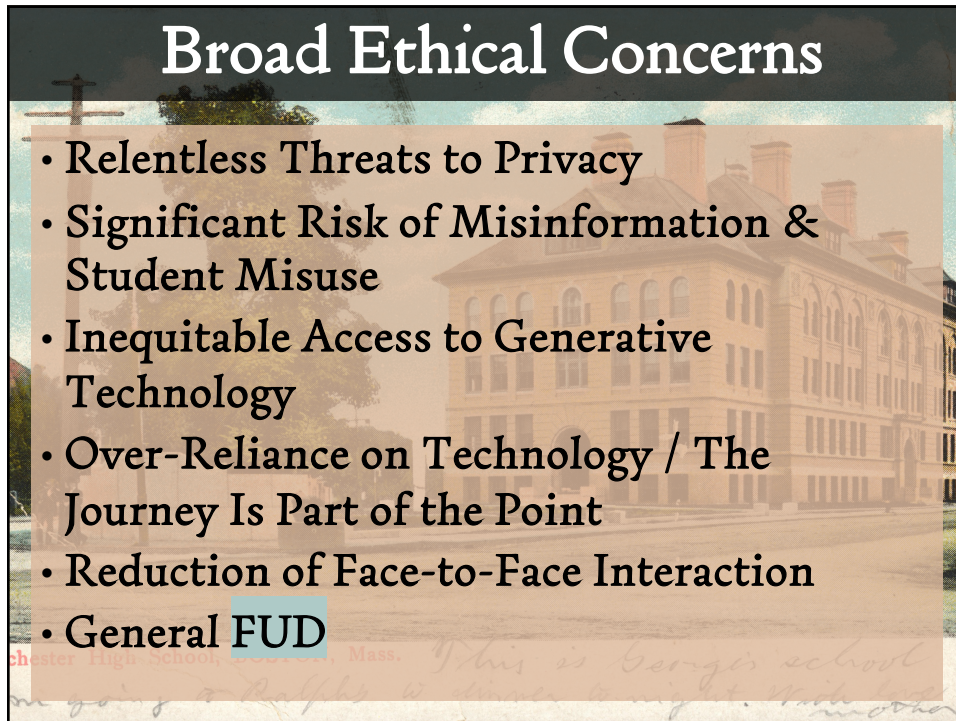
—High GenTech Is In Schools Now

- "Can't Sit This One Out" – Roberto Rodriguez, US DOE
- Students Are Already Using and Will Keep Using GenTech Tools
- Today's K students Will Graduate in 2036
- Full Impact of GenTech on Learning Will Take Time to Study

14

Broad Ethical Concerns

- Relentless Threats to Privacy
- Significant Risk of Misinformation & Student Misuse
- Inequitable Access to Generative Technology
- Over-Reliance on Technology / The Journey Is Part of the Point
- Reduction of Face-to-Face Interaction
- General FUD



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Introduction to Generative Technology (AI) in K-12 Schools

Frederick S. Lane

HI Professional Development (sponsored by HEA) Webinar 3 June 2024



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