# Public Libraries & AI



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LIBRARY OF MICHIGAN

# 1. Defining AI

Series 1: How AI Works (For Non-Techies)



# AI

# Artificial Intelligence

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# Artificial Intelligence ("AI")

Technology that learns from data to complete tasks previously performed by humans.



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Technology that ***learns from data*** to complete tasks previously performed by humans.



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Technology that ***"learns" from data*** to complete tasks previously performed by humans.



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# Artificial Intelligence ("AI")

Technology that learns from data ***to complete tasks previously performed by humans***.



AI

ARTIFICIAL INTELLIGENCE

HALL OF FAME

incorect

Spell Check, 1980s-90s

AI

ARTIFICIAL INTELLIGENCE

# HALL OF FAME



AI Beats Human Chess Champion, 1997

AI

ARTIFICIAL INTELLIGENCE

# HALL OF FAME

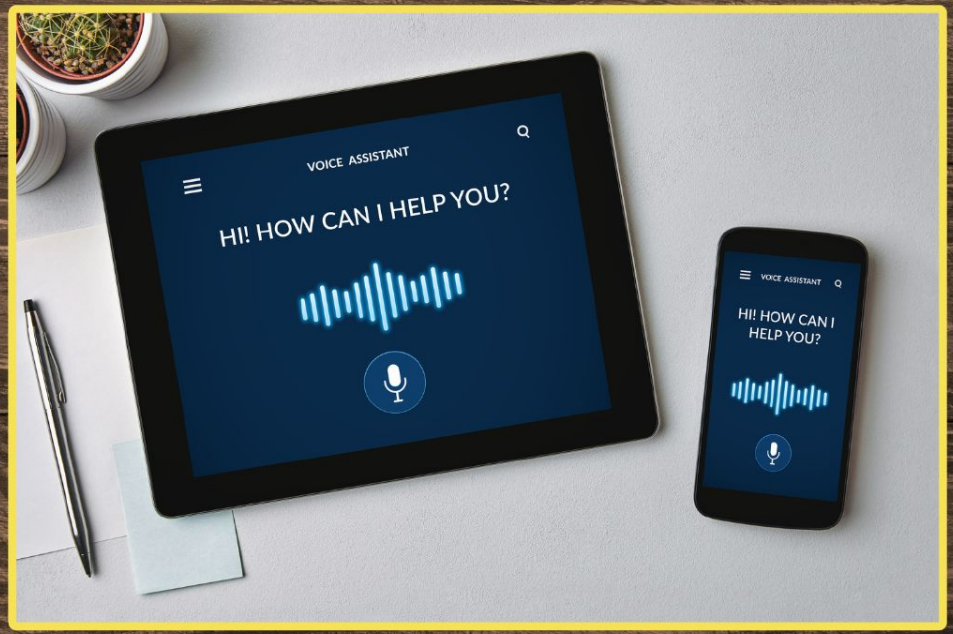



## Algorithmic Recommendations, Early 2000s

AI

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# HALL OF FAME




Natural Language Smartphone Assistants, 2011

AI

ARTIFICIAL INTELLIGENCE

# HALL OF FAME




Intelligent Chat Apps, 2022

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# Narrow AI vs. General AI

## Narrow AI

- Focused on a single task or set of tasks
- e.g., chess app, auto-complete, image recognition, ChatGPT

## General AI

**aka "Artificial General Intelligence" (AGI)**

- Capable of human-like flexibility, thinking / reasoning
- *currently* only in sci-fi

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# "AI" Today...

## Text / Language

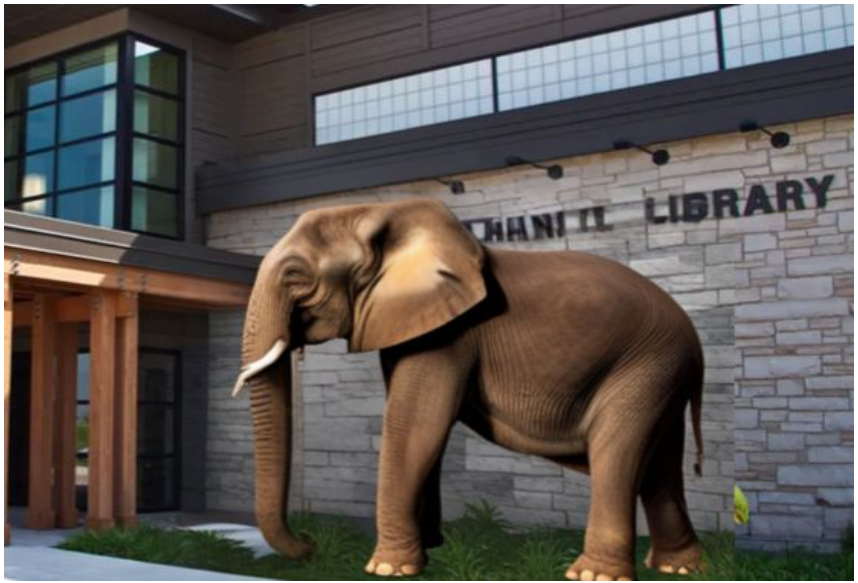
**You**
I'm a children's librarian at a public library. Help me brainstorm 20 ideas for rainy day craft activities in the library that have a rainy day theme. Suggest some books for kids about rainy days.

**ChatGPT**
Sure, here are 20 craft ideas for rainy day-themed activities in the library, along with some book suggestions:

### Rainy Day Craft Activities

1. **Paper Raindrops Mobile**: Kids can cut out and decorate paper raindrops, then hang them from a stick or hoop to create a mobile.
2. **Cloud and Raindrop Window Decorations**: Using contact paper, cotton balls for clouds, and blue streamers or ribbons for rain.
3. **Rain Gauge Making**: Using clear plastic bottles to make simple rain gauges and decorating them.
4. **Puddle Jump Board Game**: Create a board game where players jump over paper puddles to reach the end.

## Images



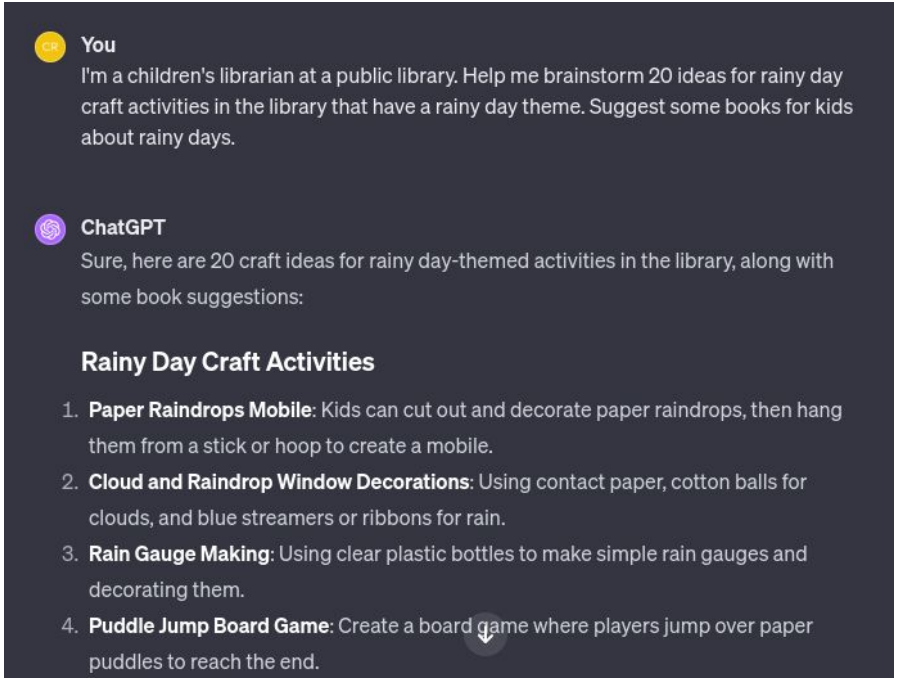
# Generative AI

AI that analyzes patterns in data to produce new content, such as images, video, or passages of text.



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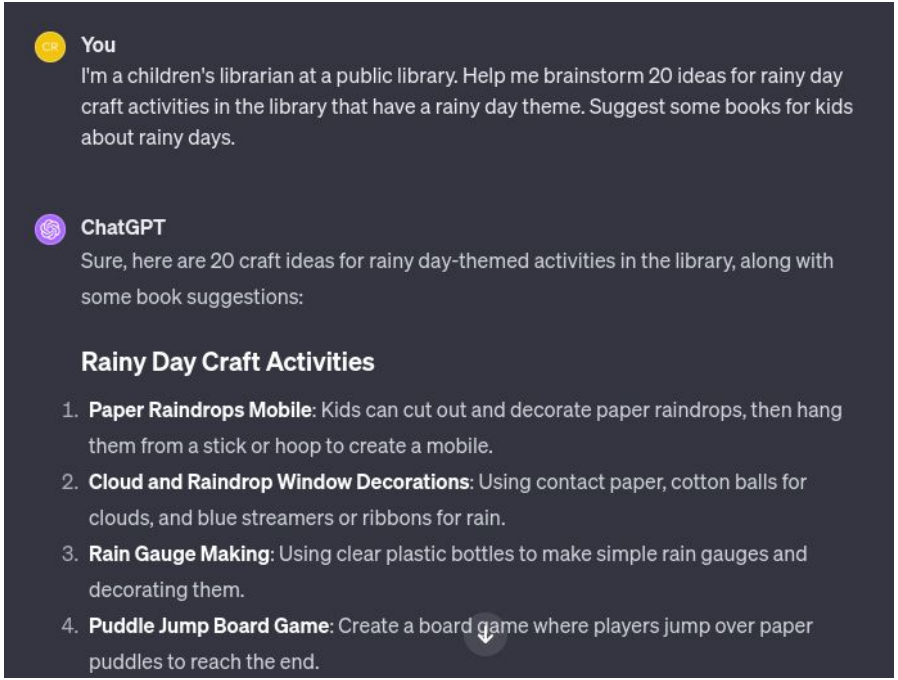
# Large Language Model (LLM)




- AI system that analyzes and generates language
- Powerful language capabilities: summarization, translation, basic trivia, technical assistance, etc.

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# Large Language Model (LLM)




- Potential for inaccurate output ("hallucinations")
- Modern AIs can display human-like bias and prejudice inherited from human data

# Text-to-Image Generator ("txt2img")



Photorealistic image of an elephant walking through the middle of a public library reading room, which is brightly lit via windows and full of low bookshelves and comfortable chairs, while surprised library patrons gasp

Download Edit ...

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# Dinosaurs in the Library

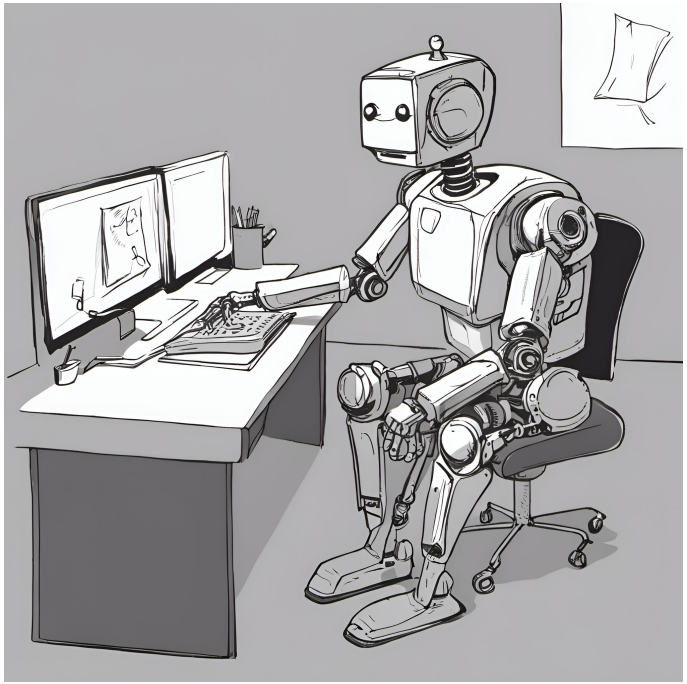




DallE 3-generated

# What AI is NOT

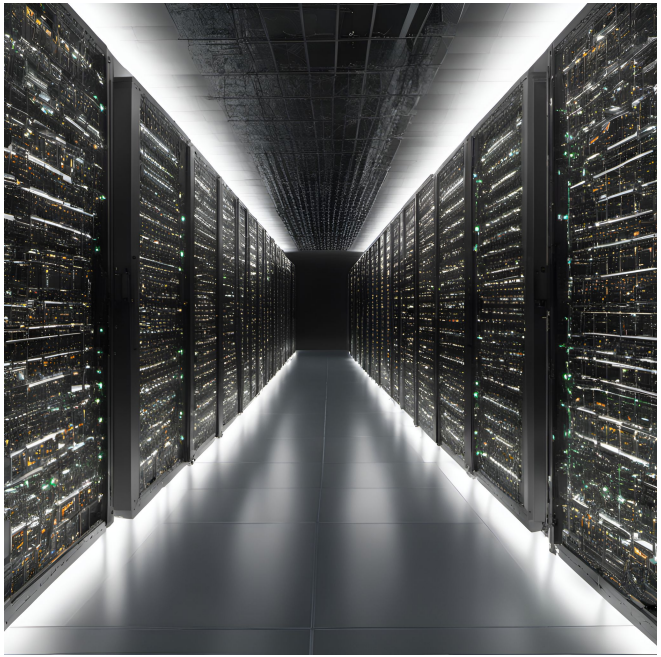
- Sentient or self-aware



It's not conscious or "alive"; img: Dalle3

# What AI is NOT

- Sentient or self-aware
- A giant copy of the Internet



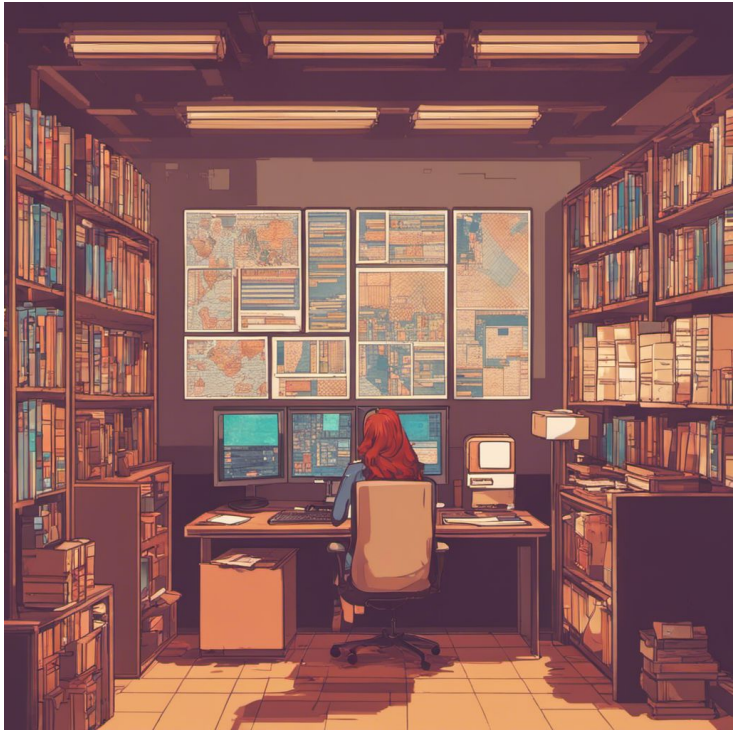
# What AI is NOT

- Sentient or self-aware
- A giant copy of the Internet
- "Objective" or "unbiased"



# What AI is NOT

- Sentient or self-aware
- A giant copy of the Internet
- "Objective" or "unbiased"
- A reliable source of facts



Not like, for instance, a reference librarian; Img: DallE3

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# "AI" Today...

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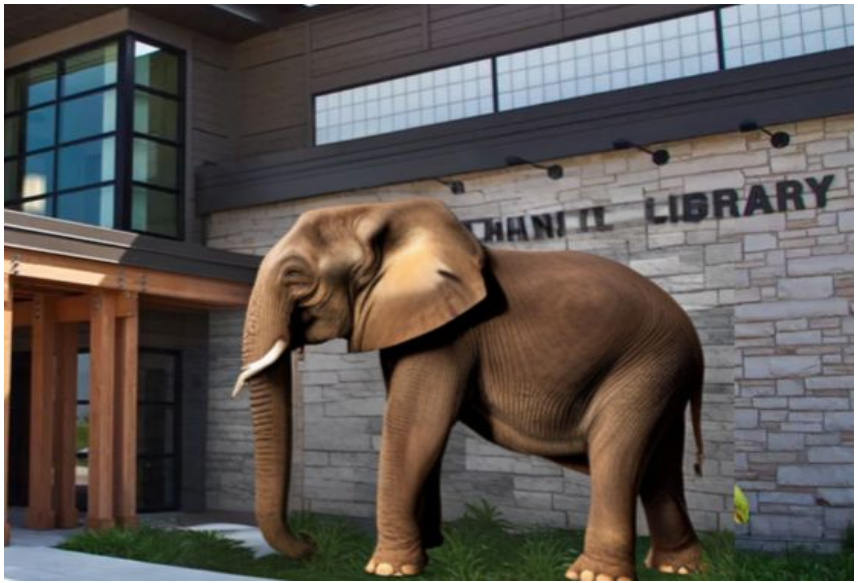
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## Images



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# Coming up...

- How AI is "trained" or "learns"
- How AI differs from traditional software and data storage

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# Optional Activities

- Try an AI chatbot like ChatGPT, Claude, or Gemini
- Ask your colleagues about their experience, if any, with AI tools

# Thanks for watching!

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