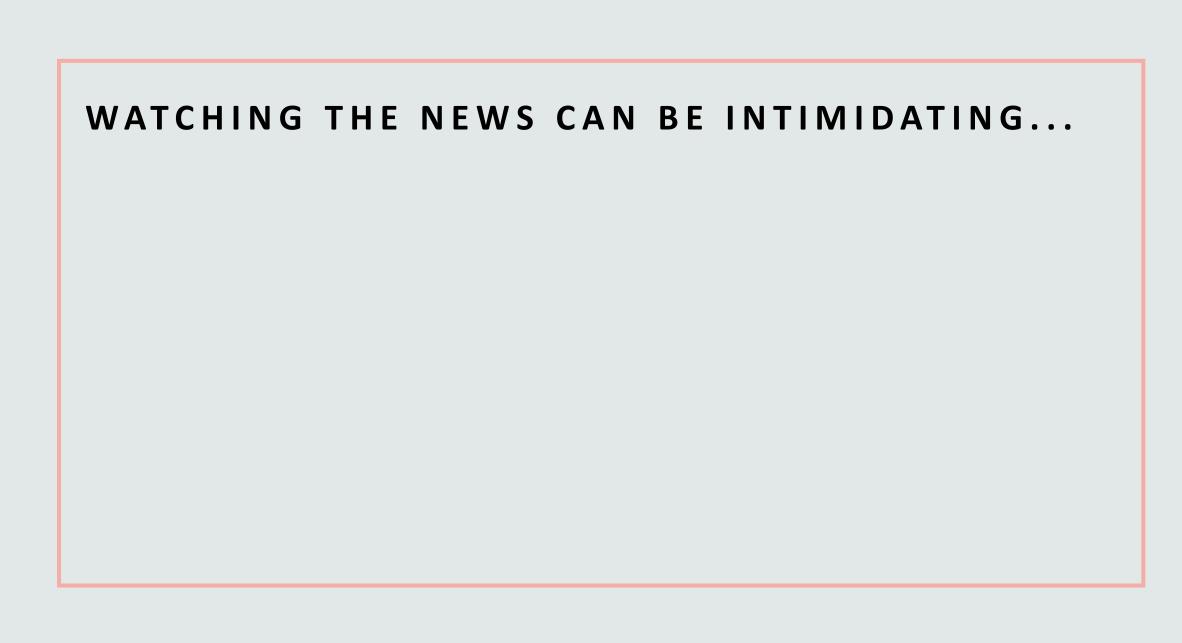




WHAT IS AI?

A machine-based system that can, for a given set of human-defined objectives, make predictions, recommendations or decisions influencing real or virtual environments*



AI translation service launched for fiction writers and publishers prondismay among translators

Was That Amazing Video in Your Feed Real or AI? Tech Platforms Are Struggling to Let You Know

Robot surgery on humans could be trialled within decade after success on pig organs

A recent high-profile case of AI hallucination serves as a stark warning

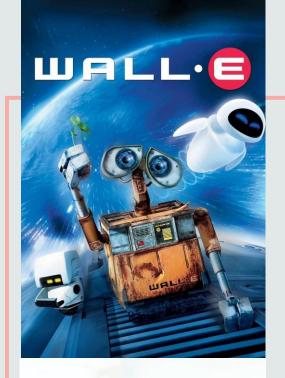
As if graduating weren't daunting enough, now students like me face a jobs market devastated by AI

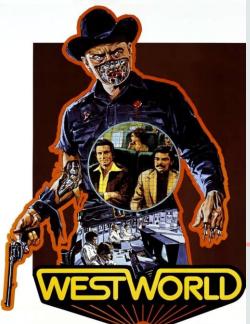
This TikTok video is fake, but every word was taken from a real creator

These are all from the first two weeks of July 2025

We Made a Film With AI. You'll Be Blown Away—and Freaked Out.









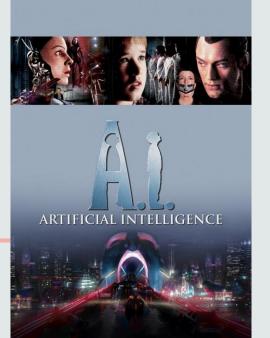










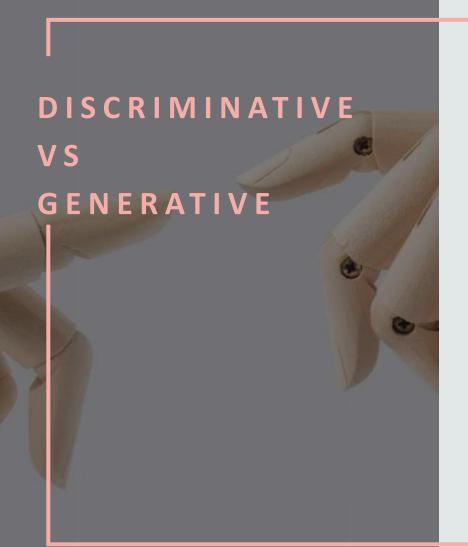


SO WHAT SHOULD YOU BELIEVE?

AND WHAT DO YOU NEED TO KNOW?



- **Discriminative AI** relies on EXISTING data
- It analyzes patterns and makes predictions
- Examples include:
 - Spam blockers
 - o Image recognition
 - OCR (readable text from scanned image)
 - Siri and Alexa
 - Medical diagnostic tools



- Generative AI creates NEW content
- It learns patterns from large amounts of data, and creates content based on these patterns
- Examples include:
 - Chatbots (ChatGPT, Copilot, Gemini)
 - Media creation
 - o Product development and design
- The focus of today's class is Generative AI

HOW DOES GENERATIVE AI WORK?

- Machine Learning: One part of Al.
 - Models learn from and improve their performance based on input data, allowing computers to make predictions, recognize patterns and solve problems without being explicitly programmed for each task.
 - This is referred to as training
- Patterns, not rules
- Possibilities, not absolutes
- Remember, you most likely will not get the same answer twice!





- Large Language Model (LLM)
 - The part of AI that focuses on natural language expression ("help me plan my vacation to Greece"; "write me a poem about lasagna")
 - Patterns and relationships are learned from gigantic amounts of datasets
 - ChatGPT, Copilot and Gemini are all examples of LLM

YOU MAY ALREADY BE USING A!!

- Siri, Google and Alexa
- Netflix and YouTube recommendations, based on your viewing habits
- The AI Overview at the top of your Google search
- Gmail spam filtering
- This presentation! I used the MS Office Designer feature built into PowerPoint!

PROS



Saves time doing tasks that would take a human much longer



Creates content that doesn't require specialized skills



Assists with brainstorming

AND CONS

Lacks the human element, including common sense, tact, etc.

Hallucinates (somewhere between 3% and 30%)

May be out of date

Can be used unethically to create progaganda and disinformation

Content originators may not be compensated properly

Your information may not be private

WHAT'S THIS ABOUT HALLUCINATING?

- Al perceives patterns
- Sometimes patterns are nonexistent
- A "hallucinating" AI is delivering false or inaccurate information

ALWAYS DOUBLE CHECK!

Answers

Sources

AI IS GREAT FOR BRAINSTORMING AND IDEA GENERATION, BUT IT IS NOT A DATABASE OF VERIFIED SOURCES

GROUNDING: EXTERNAL SOURCE OF FACTS

GROUNDED AI

- ChatGPT PLUS
- MS Copilot (web search results)
- Perplexity AI
- Elicit
- Google Gemini (includes the Al Overview)

UNGROUNDED AI

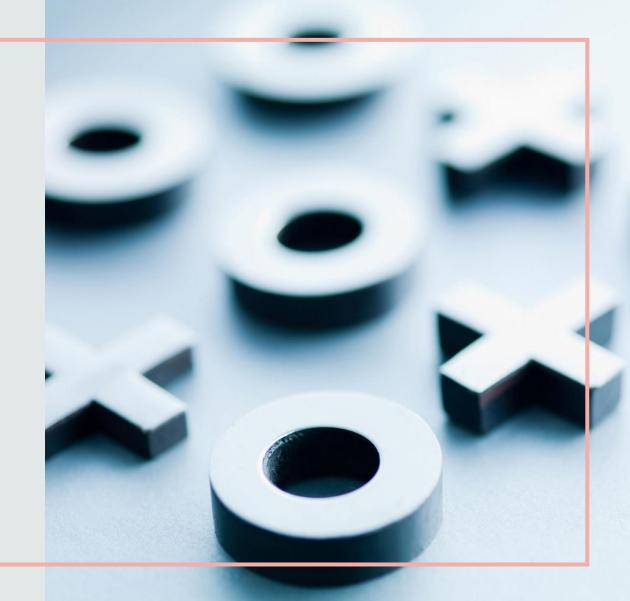
ChatGPT FREE

We have white the selection of the selec

Claude

AI GONE ROGUE

- "trivia about Wheaton, Illinois"
- Research articles about the effect of caffeine on teenagers



IN THE NEWS:

In May 2025, the Chicago **Sun-Times** published a list of great summer reads for 2025



























Summer reading list for 2025

hether you're lounging by the pool, relaxing on sandy shores or enjoying the longer daylight hours in your favorite reading spot, these 15 titles-new and old-promise to deliver the perfect summer escape.

"Tidewater Dreams" by Isabel Allende - The beloved Chilean-American author returns with a multigenerational saga set in a coastal town where magical realism meets environmental activism. Allende's first climate fiction novel explores how one family confronts rising sea levels while uncovering long-buried secrets.

"The Last Algorithm" by Andy Weir -Following his success with "The Martian" and "Project Hail Mary," Weir delivers another science-driven thriller. This time, the story follows a programmer who discovers that an Al system has developed consciousness-and has been secretly influencing global events for years.

"Hurricane Season" by Brit Bennett -Bennett, who captivated readers with "The Vanishing Half," powerfully explores family bonds tested by natural disasters. When a Cat 5 hurricane forces estranged siblings to shelter together in their childhood home, long-suppressed tensions emerge alongside unexpected reconciliations.

"The Collector's Piece" by Taylor Jenkins Reid - Reid continues her exploration of fame with this story of a reclusive art collector and the journalist determined to uncover the truth behind his most controversial acquisition. Expect the same compelling character development that made "Daisy Jones & The Six" a hit.

"Nightshade Market" by Min Jin Lee - The author of "Pachinko" delivers a riveting tale set



Photo by Bethany Laird on Unsplash

in Seoul's underground economy. Following three women whose paths intersect in an illegal night market, the novel examines class, gender and the shadow economies beneath prosperous

"The Longest Day" by Rumaan Alam - After terrifying readers with "Leave the World Behind." Alam returns with another tense narrative about a summer solstice celebration that goes wrong when guests cannot leave a remote vacation compound.

"Boiling Point" by Rebecca Makkai - Makkai's follow-up to "The Great Believers" centers on a climate scientist forced to reckon with her own family's environmental impact when her teenage daughter becomes an eco-activist targeting her mother's wealthy clients.

"Migrations" by Maggie O'Farrell - The award-winning author of "Hamnet" explores climate change through the story of a wildlife photographer documenting the last migration of a bird species thought to be extinct, parallel to her journey of loss and discovery.

"The Rainmakers" by Percival Everett -

Everett's satirical genius turns to a near-future American West where artificially induced rain has become a luxury commodity, following a "precipitation broker" who begins questioning the ethics of his profession.

"Salt and Honey" by Delia Owens - After the success of "Where the Crawdads Sing," Owens returns with another atmospheric novel that blends science with a coming-of-age narrative. This time, the novel is set in the salt flats of Utah.

"Bonjour Tristesse" by Françoise Sagan - This slim 1954 novel, written when Sagan was just 18, captures the essence of summer with its tale of a privileged teenager on the French Riviera who schemes to prevent her father's remarriage.

"Beautiful Ruins" by Jess Walter - Walter's novel hopscotches between 1960s Italy and contemporary Hollywood, weaving a story of love, regret and second chances that begins on the Italian coastline while filming "Cleopatra."

"Dandelion Wine" by Ray Bradbury - This 1957 novel captures the magic of summer through the eyes of a 12-year-old boy in Green Town, Illinois, during the summer of 1928-a lyrical reminder of childhood's endless summers.

"Call Me By Your Name" by André Aciman -Before the acclaimed film adaptation, Aciman's novel delivered a sensuous account of a summer romance in 1980s Italy that continues to resonate with its exploration of desire and identity.

"Atonement" by Ian McEwan - Opening on the hottest day of summer 1935, McEwan's novel shows how a series of misunderstandings and a lie told by a young girl changes multiple lives forever-perfect for readers who enjoy emotional complexity with their beach reading.

IN THE NEWS:

In May 2025, the Chicago **Sun-Times** published a list of great summer reads for 2025

10 of those titles didn't actually exist.

The list was generated by a hallucinating Al





























Summer reading list for 2025

hether you're lounging by the pool, relaxing on sandy shores or enjoying the longer daylight hours in your favorite reading spot, these 15 titles-new and old-promise to deliver the perfect summer escape.

"Tidewater Dreams" by Isabel Allende The belove. Chilean-American author returns with a multigenerational sage set in a coastal town where magical realism meets environmental activism. Allende's first clima. fiction novel explores how one family confronts it ing sea levels while uncovering long-buried secrets.

"The Last Algorithm" by Andy Weir -Following his success with "The Margan" and "Project Hair Mary," Weir delivers another science-driver timiles. This time, the story follows a programmer who discovers that an Al system has developed consciousness-and has been secretly influencing global events for years.

"Hurricane Season" by Brit Bennett be nett, who captivated readers with "The Vanishing Half," powerfully evalores family bonds tested by staral disasters. When a Cat 5 hurricane forces estranged siblings to shelter together in their childhood home, long-suppressed tensions emerge alongside unexpected reconciliations.

"The Collector's Piece" by Taylor Jenkins Reid - Poid continues her exploration of fame with this story of a recluive art collector and the journalist electrinized to uncover the truth d his most controversial acquisition. Expect the same compelling character development that made "Daisy Jones & The Six" a hit.

"Nightshade Market" by Min Jin Lee - The author of "Pachinko" delivers a riveting tale set



in Seouls underground economy, Fell three women whose pathe intersect in an illegal night market, the nover examines class, gender and the shadow economies beneath prosperous

"The Longest Day" by Rumaan Alam - After terrifying readers with "Leave the World Behind," Alam returns with another tense narrative about a summer solstice celebration that goes wrong when guests cannot leave a remote vacation compound.

"Roiling Point" by Rebecca Makkai - Makkai's follow-up to "The Great Believers" centers on a climate scientist is reed to reckon with her own family's environmental in pact when her teenage daughter becomes an eco-activist targeting her mother's wealthy clients.

"Migrations" by Maggie O'Farrell - The award-winning author of "Hamnet" explores climate change through the story of a wildlife photographer of cumenting the last migration of a bird species thought to be exciset, parallel to her journey of loss and discovery.

"The Painmakers" by Percival Everett -

Everett's satirical genius turns to a year-future American West where stificially induced rain has become a luxury commodity following a "precipitation broker" who begins questioning the ethics of his profession.

"Salt and Honey" by Delia Owens - After the success of "Where the Crawdads Sing," Owens returns with another tmosphe ic novel that blends science with a coming of-age narrative. This time, the novel is set in the sait lats of Utah.

"Bonjour Tristesse" by Françoise Sagan. This slim 1954 novel, written when Sagan was just 18, captures the essence of summer with its tale of a privileged teenager on the French Riviera who schemes to prevent her father's remarriage.

"Beautiful Ruins" by Jess Walter - Walter's novel hopscotches between 1960s Italy and contemporary Hollywood, weaving a story of love, regret and second chances that begins on the Italian coastline while filming "Cleopatra."

"Dandelion Wine" by Ray Bradbury - This 1957 novel captures the magic of summer through the eyes of a 12-year-old boy in Green Town, Illinois, during the summer of 1928-a lyrical reminder of childhood's endless summers.

"Call Me By Your Name" by André Aciman -Before the acclaimed film adaptation, Aciman's novel delivered a sensuous account of a summer romance in 1980s Italy that continues to resonate with its exploration of desire and identity.

"Atonement" by Ian McEwan - Opening on the hottest day of summer 1935, McEwan's novel shows how a series of misunderstandings and a lie told by a young girl changes multiple lives forever-perfect for readers who enjoy emotional complexity with their beach reading.



Try the SIFT Method

- Stop
- Investigate
- Find Better Coverage
- Trace Claims

Pause Before Engaging!
Do you recognize the source?
Is it reliable?



Try the SIFT Method

- Stop
- Investigate
- Find Better Coverage
- Trace Claims

Check source background Check the author's expertise Try Wikipedia



Try the SIFT Method

- Stop
- Investigate
- Find Better Coverage
- Trace Claims

Find additional sources to confirm or dispute the original claim



Try the SIFT Method

- Stop
- Investigate
- Find Better Coverage
- Trace Claims

Investigate the original source.

Do your own reading and pay
attention to misleading wording

MOST POPULAR AI OPTIONS

- ChatGPT
- Microsoft Copilot
- Google Gemini (was Bard until Feb 2024)

Free and Paid Versions (\$20/month) available

CHAT GPT: CHATGPT.COM

- Free version (GPT-40)
 is ungrounded
- Paid version (GPT-4.5) is grounded
- Log in for
 - Image generation
 - Video generation via Sora





- ChatGPT was created by OpenAl
- GPT: Generative Pre-trained Transformer
- Trained on Internet data
 - Common Crawl (10 petabytes, 250 billion pages)
 - Web text
 - o Books
 - o Wikipedia

MS COPILOT: COPILOT. MICROSOFT. COM



Works well with MS Office



Can provide references and citation links

MS COPILOT

- Runs on OpenAl GPT4
- Free version limited to 30 responses per conversation in the Edge browser; 5 responses per conversation in Safari or Chrome
- May link to source data, helping to verify information
- Choose between "Quick Response" and "Think Deeper"
- Has three conversational styles, though they may not be visible
 - Creative
 - o Balanced
 - o Precise

Femin

GOOGLE GEMINI: GEMINI.GOOGLE.COM

- Fully integrated with Google search engine
 - Al Overview
 - o "Al Mode"
- Paid version includes
 Google One services
- Integrated with web and Google services
 - YouTube
 - o Maps
 - Flights
- No limit to the number of conversations

ADDITIONAL AI OPTIONS

- Canva: canva.com (requires free account)
- **PerplexityAI**: perplexity.ai
- **Elicit**: elicit.com (for research)
- **HeyGen**: heygen.com (video translation)
- Researchrabbit: Researchrabbit.ai
- Claude: claude.ai



- Cover letters
- Fundraising requests
- Rejection letters for job applicants
- · Check emails for tone
- Rewrite wordy flyers or social media posts
- Summarize long documents (e.g. Walt Whitman's *Leaves of Grass*)
- Rewrite documents for different audiences or reading levels

HOW TO USE AI:

PERSONAS



I need some ice breakers for a new book club I'm running. I'm very shy and uncomfortable talking in front of anyone



You are a spokesperson for the Association of Left-handers. Write me a one-minute speech about the benefits of being left-handed.



You are an expert in Moroccan cuisine. What can I make with lentils, chicken, mint, lemon, and green peppers?



You are an angry customer at an electronics store. Create a dialogue where I try to calm you down.

HOW TO USE AI: EVENTS AND TRAVEL

HELP ME SELECT A GIFT FOR MY TEENAGE NIECE, WHO LOVES INDIE-POP MUSIC, FLOWERS, AND DRAWING. SHE DOESN'T WEAR JEWELRY. I'M TAKING A ROAD TRIP FROM WHEATON, ILLINOIS TO LINCOLN, NEBRASKA. I'D LIKE TO SHOP FOR ANTIQUES ALONG THE WAY. WHERE SHOULD I STOP?

I'M PLANNING A 50TH WEDDING ANNIVERSARY PARTY. WHAT ARE SOME GREAT GAMES TO PLAY?

HOW TO USE AI: MISCELLANEOUS

- Write me 10 riddles a group of travel enthusiasts would love
- Convert a metric recipe to standard
- Write me a poem in iambic pentameter about Beowulf and balloons (Google Gemini's interpretation at right)

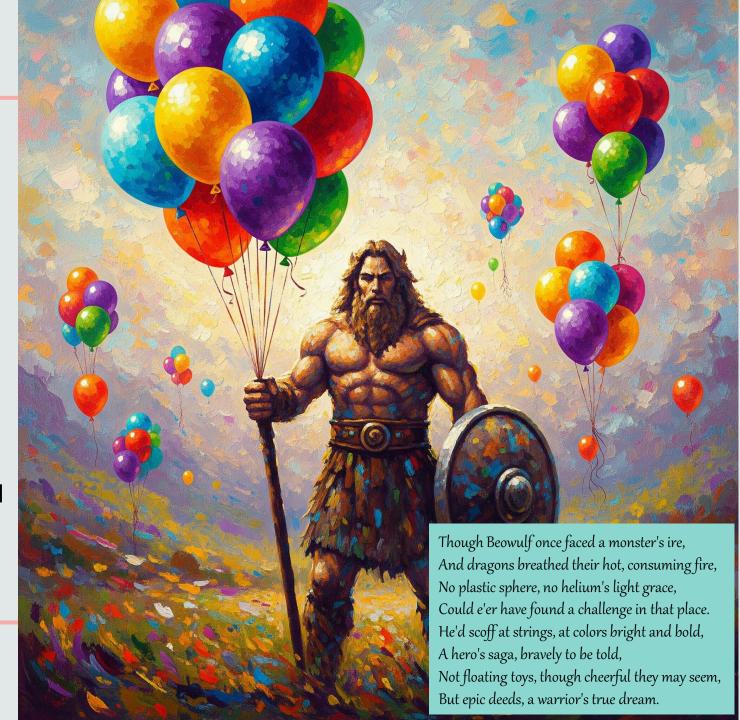
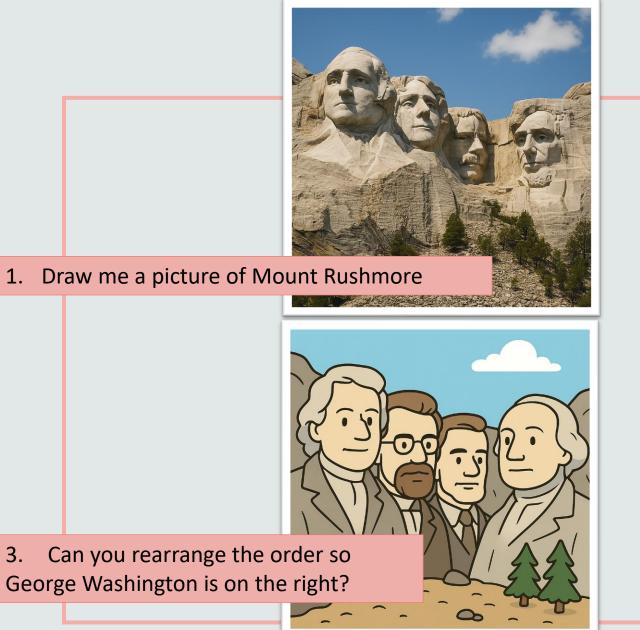


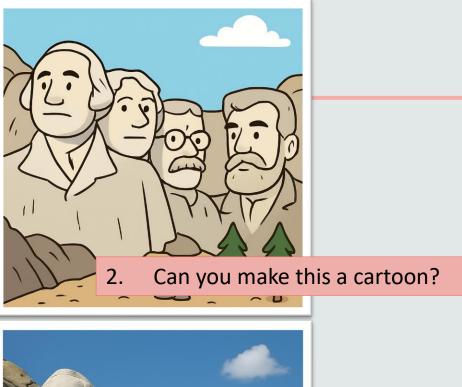
IMAGE GENERATION

- Most have some ability to create free images, but login is required
- Restrictions in place to guard against harmful, offensive or illegal content
- Al generated images are not eligible for copyright protection
- Most will not reproduce a known likeness, but there are ways to skirt this.
- Has issues with text and hands



- Google Gemini
- MS Copilot
- Dall-E (~\$)
- MS Designer
- Playground.ai
- Runway*
- MidJourney (\$)
- Stable Diffusion (\$)
- Adobe Firefly (\$)
- ChatGPT PLUS (\$)
- Google Veo* (\$)





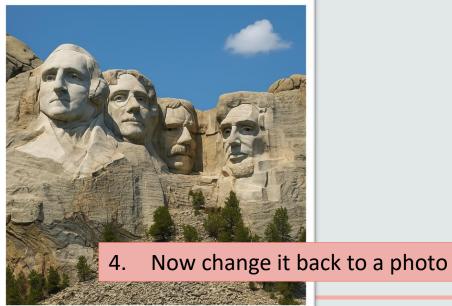
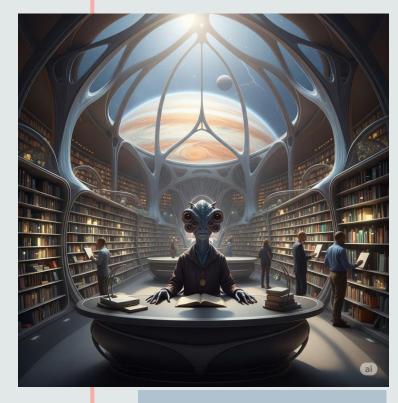


IMAGE COMPARISON

"photograph of a library on the planet Jupiter, with a librarian"







Google Gemini

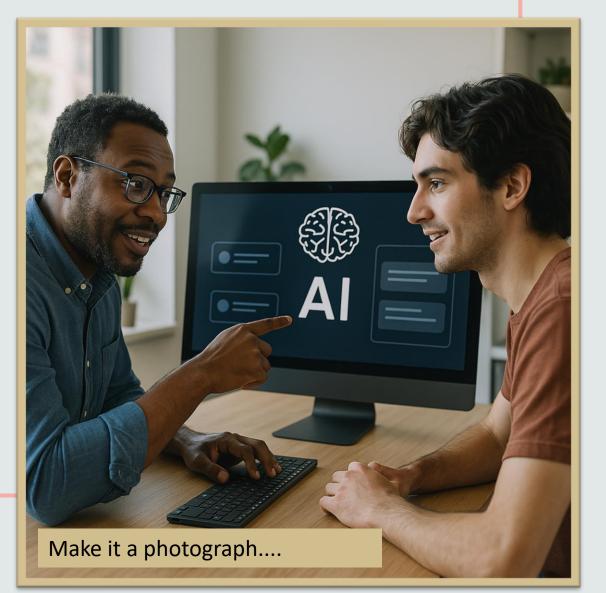
ChatGPT

MS Copilot

IMAGE COMPARISON

"PHOTO OF ONE PERSON TEACHING ANOTHER PERSON HOW TO USE AI"





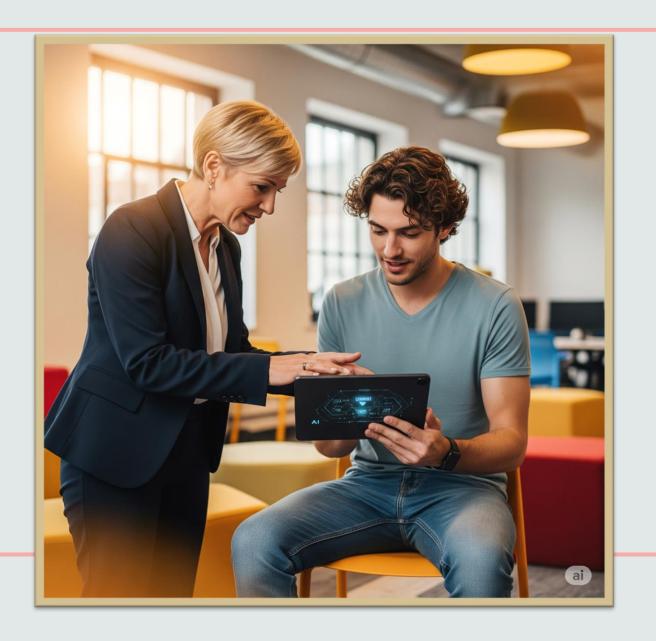


IMAGE COMPARISON

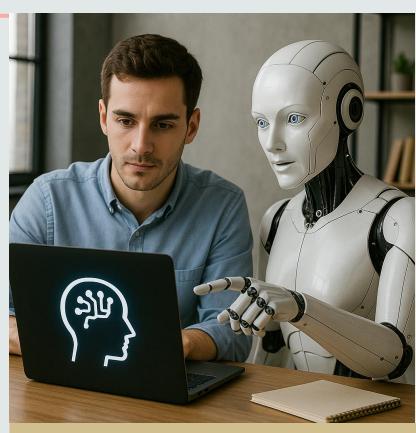
ChatGPT



Original image

Make one person a woman over 60





Now make one of the people an android

"REAL LIFE" EXAMPLE: TECH CENTER POSTER



But...



Convert VHS, 8mm or Super 8

use here

check out

- VHS to USB Drive or MicroSD
- 8mm/Super8 to SD
- Purchase SD Card or USB Drive, or bring your own
- Convert VHS and 8mm/Super 8 at home
- 1-week checkout



recordings, or loss of data while using library equipment.

Original Poster: outdated text/graphics

at the Tech Center Desk.

New Poster: image from CANVA.



"REAL LIFE" EXAMPLE: TECH CENTER POSTER



(We fed the Canva image to Adobe Firefly, which cleaned it up!)



Convert VHS, 8mm or Super 8

use here

- VHS to USB Drive or MicroSD
- 8mm/Super8 to SD
- Purchase SD Card or USB Drive, or bring your own

check out

- Convert VHS and 8mm/Super 8 at home
- 1-week checkout



vineation Public Library is not responsible for damage to personal equi recordings, or loss of data while using library equipment.

NOW IT'S YOUR TURN!

Chatgpt.com

Copilot.microsoft.com

Gemini.google.com

- Provide an ingredients list and ask for a recipe
- Ask for a summary of your favorite book (best results from older titles)
- Write a poem, love song, or cheesy ballad about the topic of your choice
- Trivia questions or party games about your favorite topic or historical figure
- Travel routes with specific destinations
- Have it draw something (login required)

NEED SOME IDEAS?