

Generative AI Primer and AI Tool Preview

Kevin Yee, Director
Laurie Uttich, Instructional Specialist



Faculty Center for
Teaching and Learning



Artificial Intelligence Already in Our Phones

- Autocorrect
- Google search
- Google translate
- GPS directions (maps)
- Home assistant (Alexa, etc.)
- Photo Editing
- Recommendations (ads, Amazon products)
- Social media ads
- Social media feed
- Voice to text (voicemails)
- Weather forecasts



1,250,000

— Stylized Path To 1 Million Users* [# of days from launch]

1,000,000



ChatGPT
~5 days



Instagram
~75 days



Spotify
~150 days

750,000

500,000

250,000

0

0

25

50

75

100

125

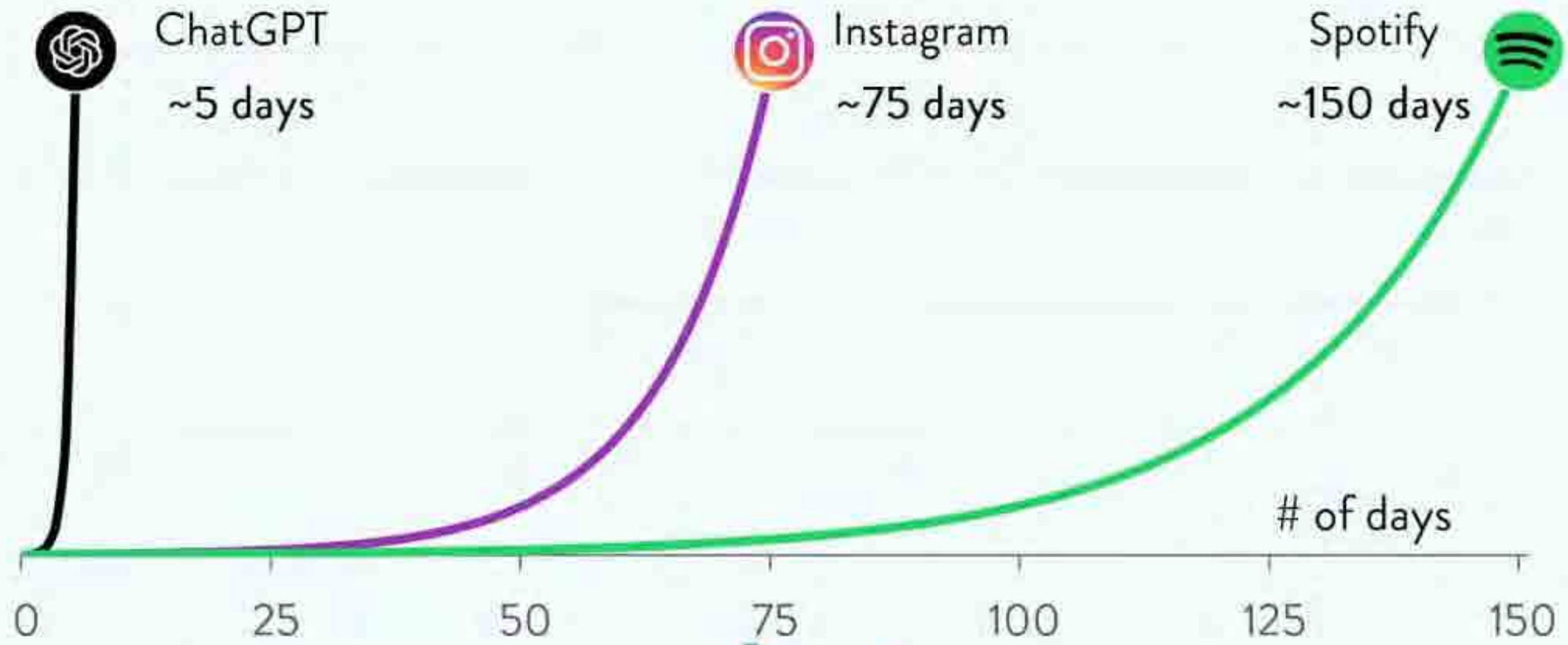
150

of days

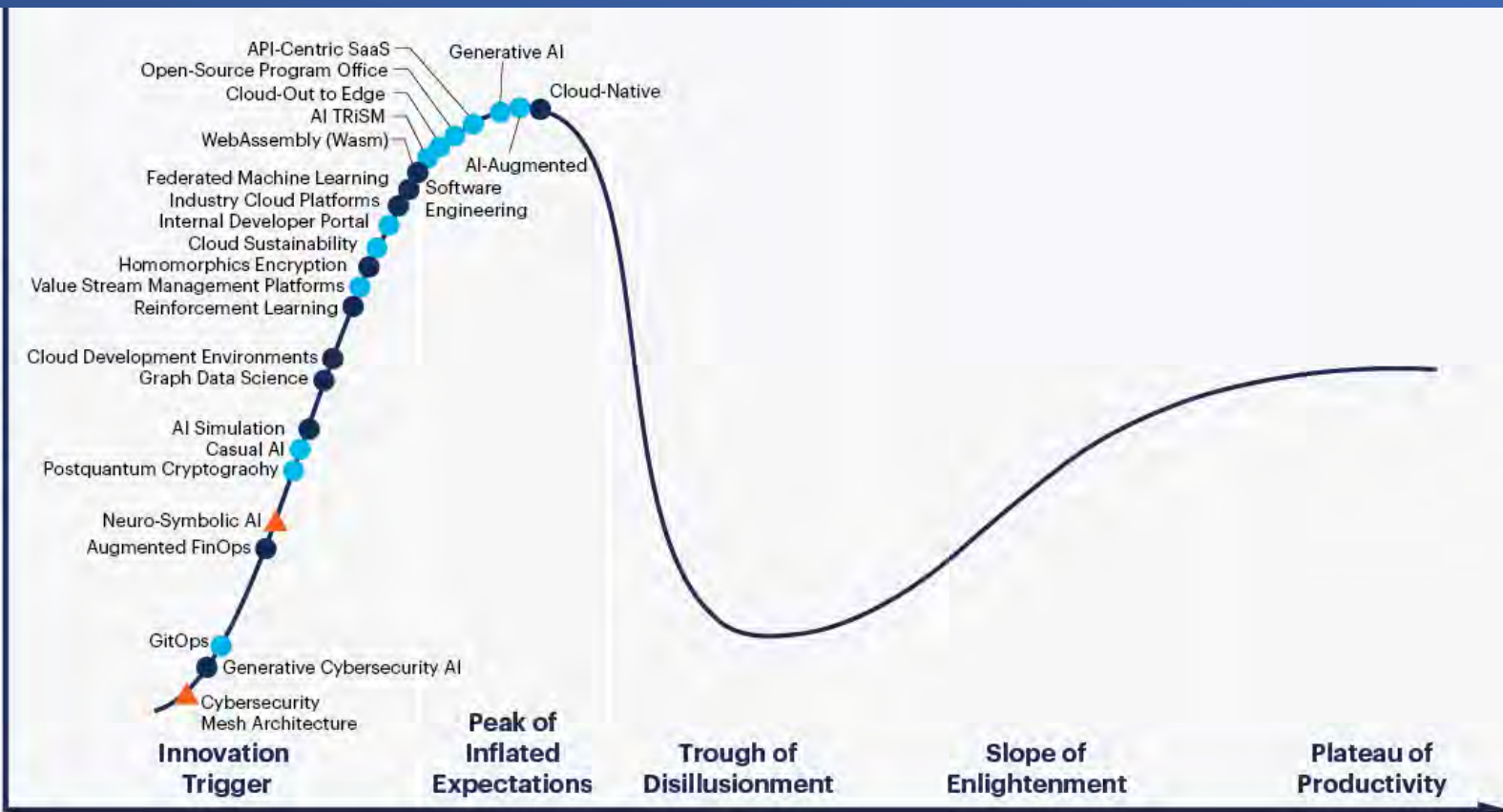
Sources: Google, Subredditstats, Media Reports

chart*r*

*Path is stylized to the 1m milestone



Expectations



Plateau will be reached:

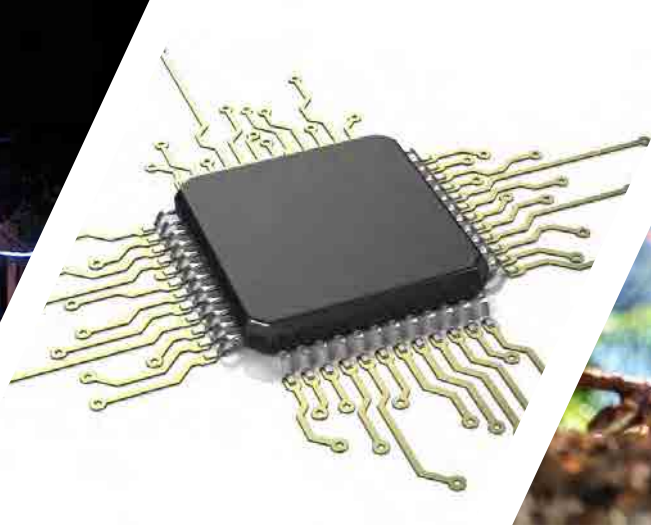
- less than 2 years
 - 2 to 5 years
 - 5 to 10 years
 - ▲ more than 10 years
 - ⊗ obsolete before plateau
- As of August 2023

gartner.com

Source: Gartner
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Gartner®





Promethean Moments

BUT FIRST (AND QUICKLY)... MY INTRODUCTION TO CHATGPT
I DIDN'T THINK IT COULD HAPPEN TO ME. NOT IN CREATIVE WRITING.



Image by NightCafe, AI-generated art
Prompt: nerdy female college professional with auburn hair

AND THEN THE FIRST “NON-CREATIVE” ASSIGNMENT CAME UP

Reading Reflection 1

After reading this week's short stories, write a carefully-constructed, well-supported, grammatically-correct mini-essay of a **maximum of 250 words** and discuss the role of characterization in *Who's Irish*, *Powder*, *Ghost Jeep*, *Please Explain Me*, *My Father Always Told Me*, *Irish Wedding*, **OR** *How To Live Your Best Life*. Just pick one story to analyze.

Begin by selecting one of the techniques (as described by the [Elements of the Genre](#) or the lecture), and state its effectiveness for building characterization with at least two examples from the text (include page number when you can).

You can discuss characterization through scene, summary, description, dialogue, plot, tension, etc. as well as consider how dimensional a character is (or fails to be). Your reflection can be positive or negative, depending on how well you think the author accomplished characterization. You can't be wrong. You can only be poorly supported.

Click [here](#) for an example.

Post your response here by **Sunday, Jan. 29 @ 11:59 p.m.** and you will be evaluated for your response (80 points). Then, respond to **TWO** of your group members by **Sunday, Feb. 5 @ 11:59 p.m.** with a thoughtful response that includes text as support (example [here](#)) and earn up to an additional 20 points.

YOUR BASIC “TELL ME YOU UNDERSTAND, LOW STAKES” DISCUSSION POST

WHY ARE PEOPLE FORGETTING CITATIONS?

WHY IS THE WORD COUNT SO OFF?

WHY IS EVERYONE USING THE TERMS "INTERIOR MONOLOGUE" AND "SOLIOQUY?" ?

WHY ARE SO MANY PEOPLE SELECTING "WHO'S IRISH?" (AND DID THEY REALLY READ IT?)

hmm...



Image by Canva, AI-generated art

Prompt: confused female college professional with auburn hair

In Gish Jen's short story "Who's Irish," the artful use of characterization, interior monologue, and soliloquy are essential in unraveling the intricate themes of identity, cultural clash, and generational discord. These techniques profoundly shape the narrative by providing readers with a window into the inner thoughts and emotions of the characters.

One compelling instance of characterization through interior monologue occurs early in the story, as the Chinese immigrant grandmother privately reflects on her daughter's parenting style. On page 1, the protagonist ruminates, "I think my daughter, the one who is the mother of the little child, the one who is married to the Irishman, she is too easy." This interior monologue not only exposes the protagonist's disapproval of her daughter's approach but also unveils the depth of her traditional values and cultural expectations, allowing readers to relate to her character more deeply.

Additionally, soliloquy plays a crucial role in characterizing the narrator's husband, John, who often remains in the background. On page 3, the protagonist muses aloud, "John is not bad," offering a glimpse into her thoughts on his involvement in childcare. This soliloquy allows readers to understand the narrator's perception of John as a character and highlights the cultural and generational disparities within their relationship.

In "Who's Irish," the integration of first-person narration, interior monologue, and soliloquy serves as a potent fiction technique, fostering multi-dimensional character development. Through the characters' internal reflections and spoken thoughts, readers gain a profound understanding of their motivations, values, and cultural backgrounds, enriching the narrative's complexity and resonance. Jen's masterful use of these techniques illuminates the intricacies of cultural identity and family dynamics, inviting readers to explore the story's underlying themes with depth and empathy.

I especially cannot understand my daughter's husband John, who has no job but cannot take care of Sophie either. Because he is a man, he say, and that's the end of the sentence.

Plain boiled food, plain boiled thinking. Even his name is plain boiled: John. Maybe because I grew up with black bean sauce and hoisin sauce and garlic sauce, I always feel something is missing when my son-in-law talk.



FIRST RESPONSE: HOW DO I CATCH THEM? HOW DO I PROVE IT?



Only 51% of college students think using ChatGPT is cheating.—BestColleges survey

We tested a new ChatGPT-detector for teachers. It flagged an innocent student.

Two high school students helped our tech columnist test a ChatGPT detector coming from Turnitin to 2.1 million teachers. It missed enough to get someone in trouble.



Analysis by [Justin W. Marquis](#) & [Alexandra](#)

Published April 20, 2023 11:00 AM EDT | Updated Nov 1, 2023 11:00 AM EDT

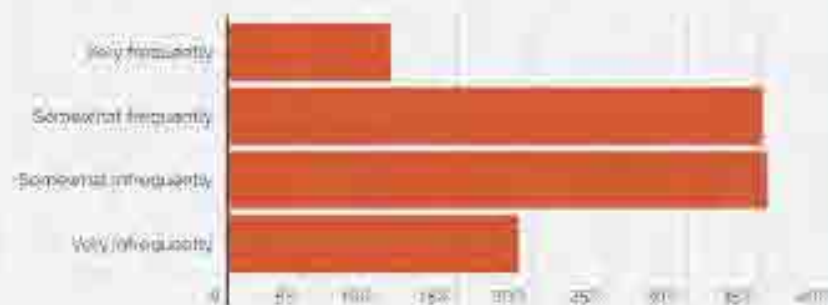
All I Want for Christmas Is to Know How to Deal With AI-Assisted Cheating

December 11, 2023 | Justin W. Marquis PH.D.

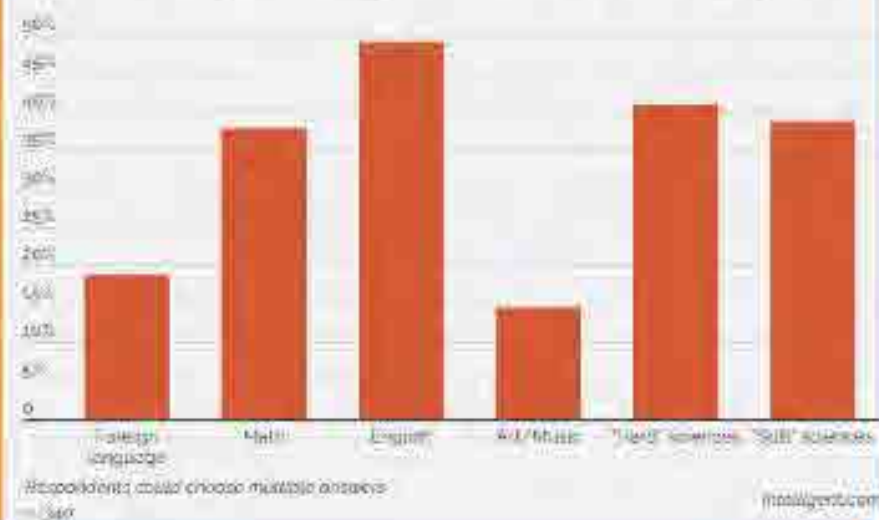
Nearly 1 out of 3 four-year college students have used ChatGPT to cheat. Of that group, 60% used it for more than half of their assignments.

Intelligent Magazine, Jan. 16-18, 2023

How frequently did you use ChatGPT to help with your schoolwork over the past academic year?



Which subjects did you use ChatGPT to study for?



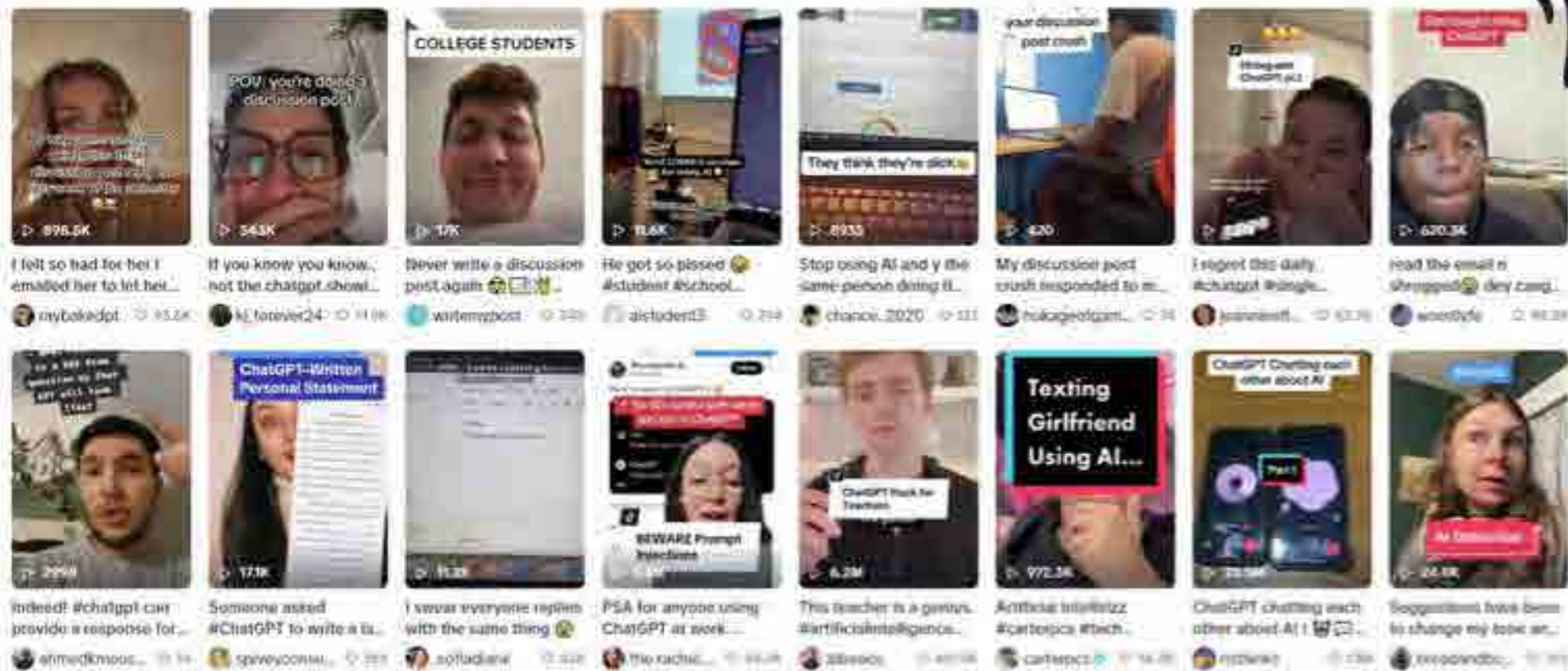
intelligent.com

EVEN IF YOU COULD "CATCH" THEM, YOU WON'T FOR LONG

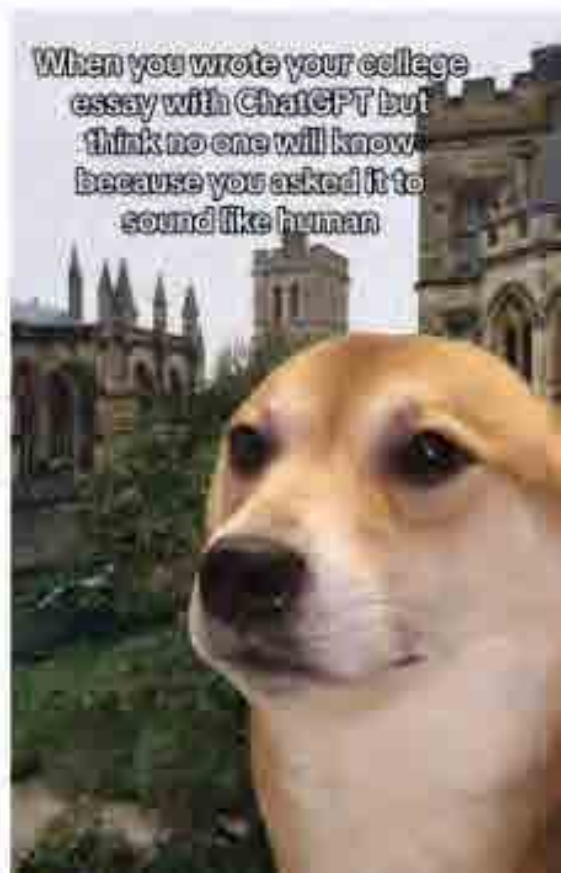
29.3 million posts/replies on TikTok!

...solely on how to use them in discussion posts in college

Chat Gpt Discussion Post Replies



When you wrote your college essay with ChatGPT but think no one will know because you asked it to sound like human



Even if students weren't using it to cheat, we can't ignore it.

"AI won't take your job. It's somebody using AI that will take your job."

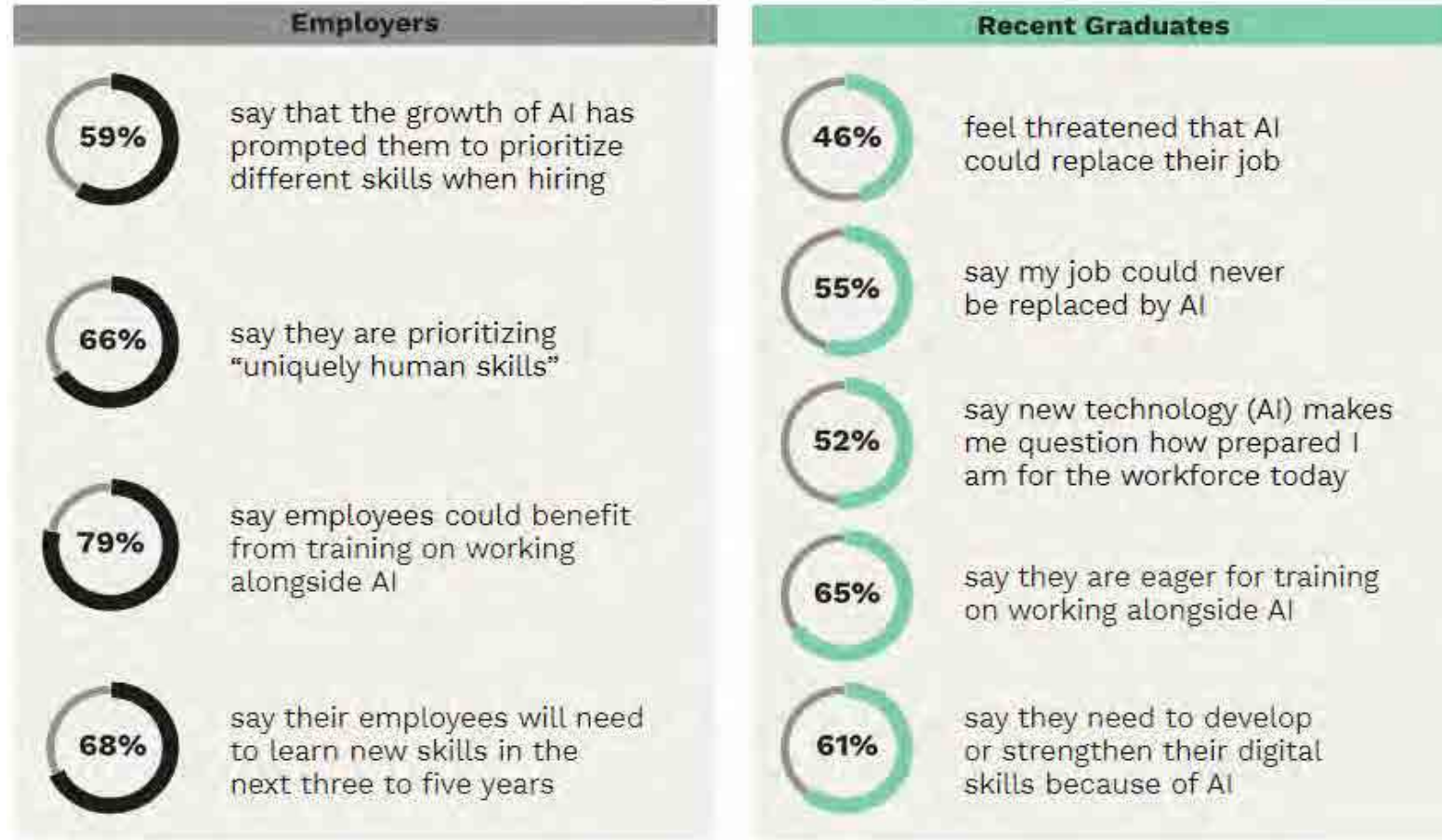
Richard Baldwin, Geneva Graduate Institute



Thanks to AI, by 2025
85 million jobs will be eliminated;
97 million new ones created...
12 additional million jobs. --

World Economic Forum

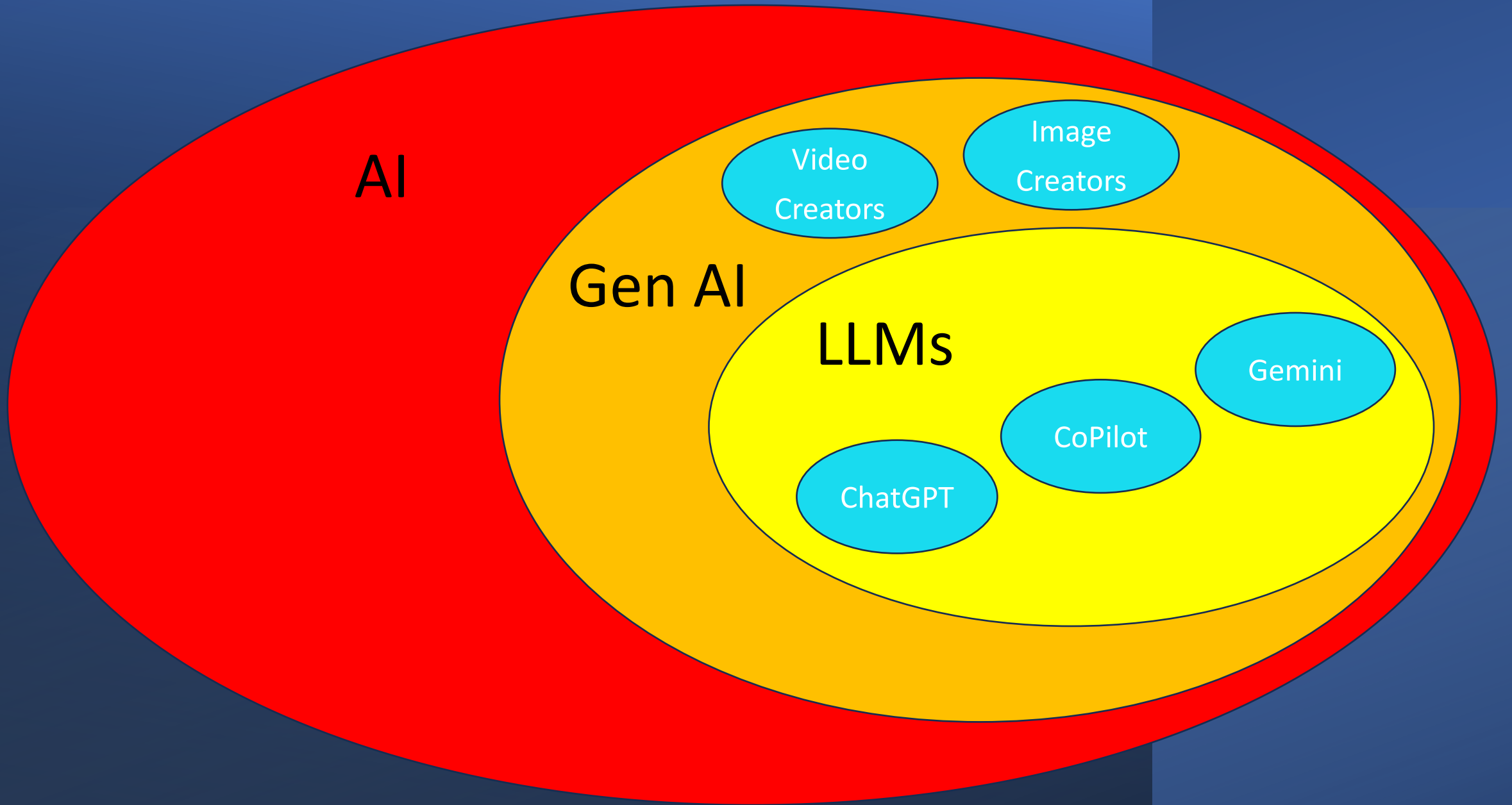
How Employers and Recent Graduates Feel About AI



SOURCE: [CENGAGE GROUP 2023 GRADUATE EMPLOYABILITY REPORT: AI JOINS THE WORKFORCE](#)

First Step? Understanding How it Works





AI

Gen AI

LLMs

Video
Creators

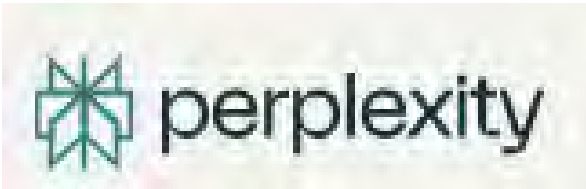
Image
Creators

ChatGPT

CoPilot

Gemini

Bard vs. Claude (and a Few Others) A Comparison of Prominent LLMs



Olympus AI



Biggest database of AI tools:

<https://www.futurepedia.io/>

Write a five-page paper that discusses a technology-related controversy and its relation to social psychology and diversity. Include arguments about the ethical and diversity-related problems and solutions surrounding the case.





How can I help you today?

Show me a code snippet
of a website's sticky header

Create a workout plan
for resistance training

Make a content strategy
for a newsletter featuring free local weekend events

Recommend activities
for a team-building day with remote employees

Message ChatGPT...





**Guess the prompt
that generated
this image at
DALL-E in early
2023.**

Kevin Yee is an Associate Professor of Educational Technology at the University of Central Florida (UCF). His research focuses on technology integration in education, online learning, and social media use in higher education. He has published numerous scholarly articles, book chapters, and edited volumes related to these topics. Yee is also known for his work on the Massive Open Online Course (MOOC) "BlendKit Course," which he co-created and co-taught with Dr. Kelvin Thompson. The course is designed to help educators and instructional designers learn how to develop and teach blended learning courses

-- April 2023, ChatGPT 3.0

As of my last knowledge update in January 2022, I do not have specific information about individuals working at the University of Central Florida (UCF), including someone named Kevin Yee. It's important to note that people's positions and roles may change over time, and new individuals may join organizations.

If Kevin Yee is associated with UCF, I recommend checking the official UCF website or contacting the university directly for the most up-to-date and accurate information regarding faculty and staff members. University websites often have directories or contact information that can help you find details about specific individuals.

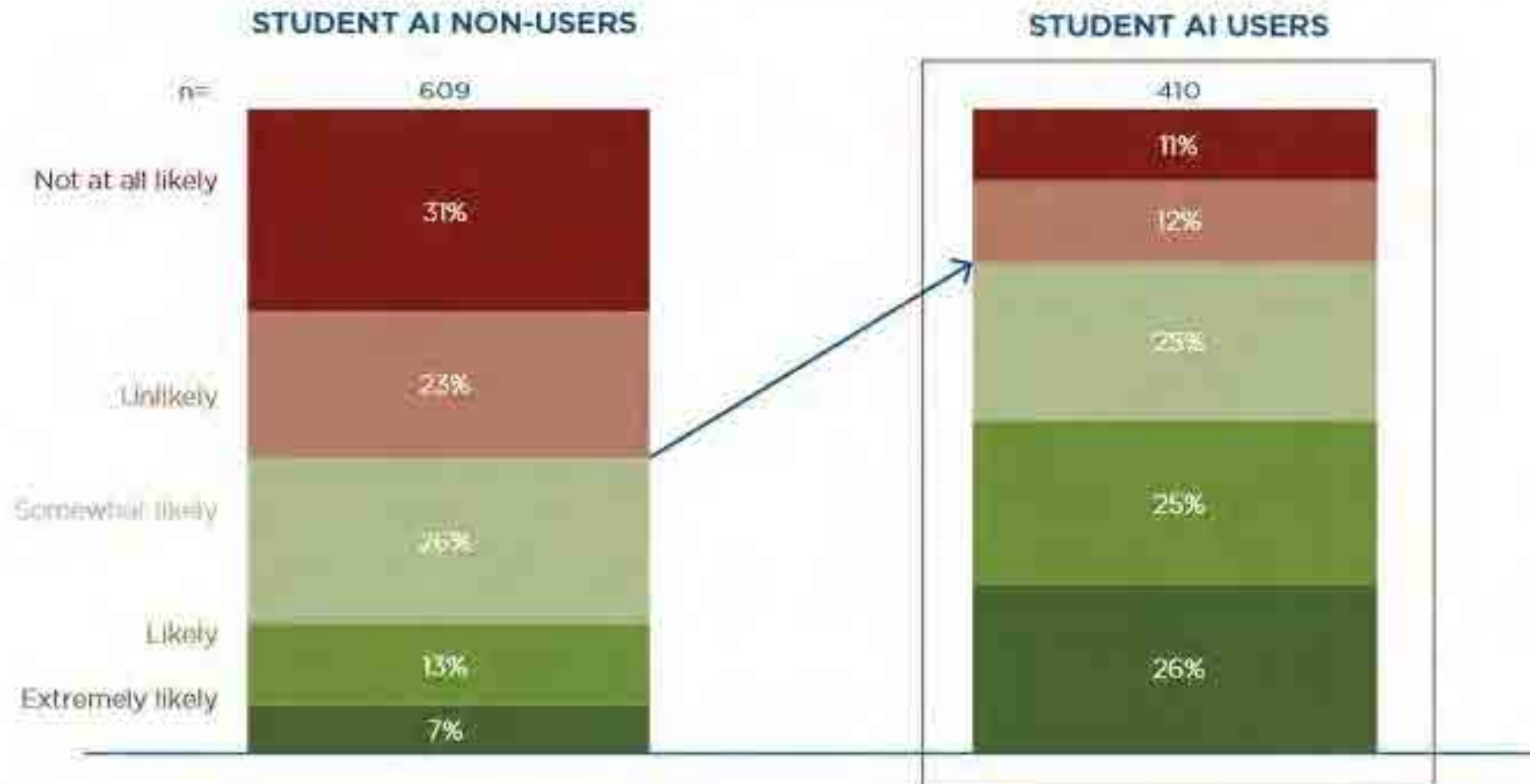
-- Dec. 2023, ChatGPT 3.5

Kevin Yee is the director of the Faculty Center for Teaching and Learning at the University of Central Florida (UCF). He has a PhD in German Language and Literature from the University of California, Irvine and has taught various courses in German, humanities, film, and cultural studies. He is also interested in the science of learning, interactive teaching, and AI fluency. He has co-edited a book on the intersection of VR and ethics in the college classroom.

-- Dec. 2023, Bing Chat

Accurate or Not, Students Are Going to Use It

Student likelihood to use AI writing tools even if prohibited, responses as of March 2023



+ Submit A Tool

Today December 1

8 AI tools added today.

Your JotBot writes like you.

Upload writing samples, add a prompt, and let JotBot take you from a blank page to final draft.

Start writing for free

Join Discord



Unlimited



Train JotBot

Add Context

History Essays

1889 characters

Other essays

2466 characters

Polisci essay

JotBot AI

👉 What are you writing?

Give instructions and/or paste in a prompt/question(s) you are answering. Use '@' to include files, links, and other context.

@ attach

👉 Have any ideas? *(optional)*

By default, ideas will be generated for you. Optionally, add anything you want to write about.

Search documents

+ New document

TODAY

📄 Tips for Creating JotBot

📄 The Impact of Japanese Im

📄 The Interplay Between Eme

📄 Tracing the Origins of Ja

📄 Consumer Decision-Making



OpenAI

GPTZero

Have You Put Your Quizzes Into ChatGPT?

Question 1

1 pts

Oxidation number of N in HNO_3

+5

+4

+3

+1



The oxidation number of nitrogen (N) in HNO_3 (nitric acid) is +5. In nitric acid (HNO_3), the hydrogen atom has an oxidation number of +1, and the oxygen atoms each have an oxidation number of -2. Since the overall charge of the nitric acid molecule is neutral, the oxidation number of nitrogen can be calculated:

Let x be the oxidation number of nitrogen.

$$(+1) + x + 3(-2) = 0$$

Simplifying the equation:

$$+1 + x - 6 = 0$$

$$x - 5 = 0$$

$$x = +5$$

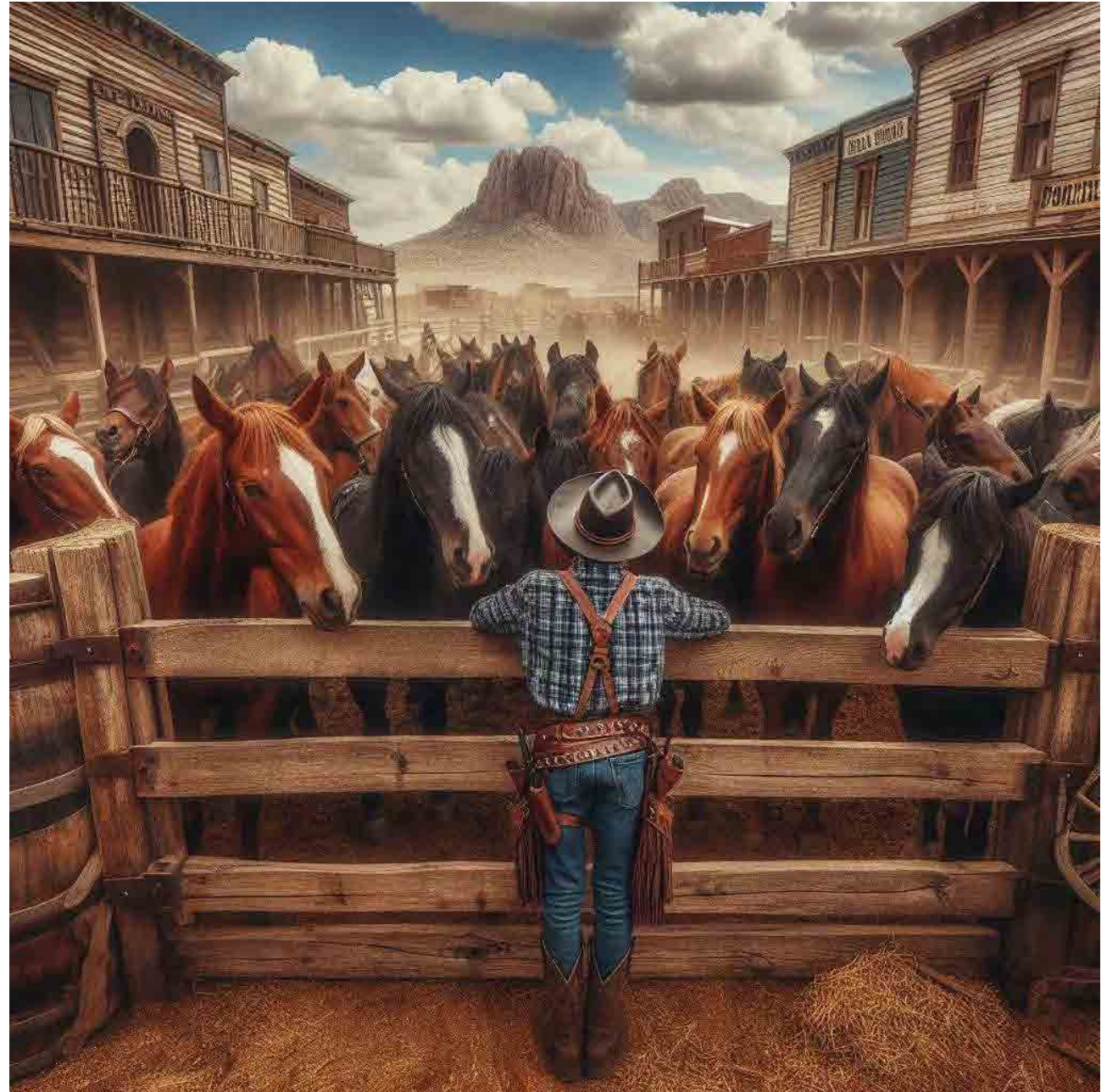
So, the oxidation number of nitrogen (N) in HNO_3 is +5.

Reg

Send a message

“It’s the Wild West out there, and the students have all the horses.”

- 2023 national survey respondent

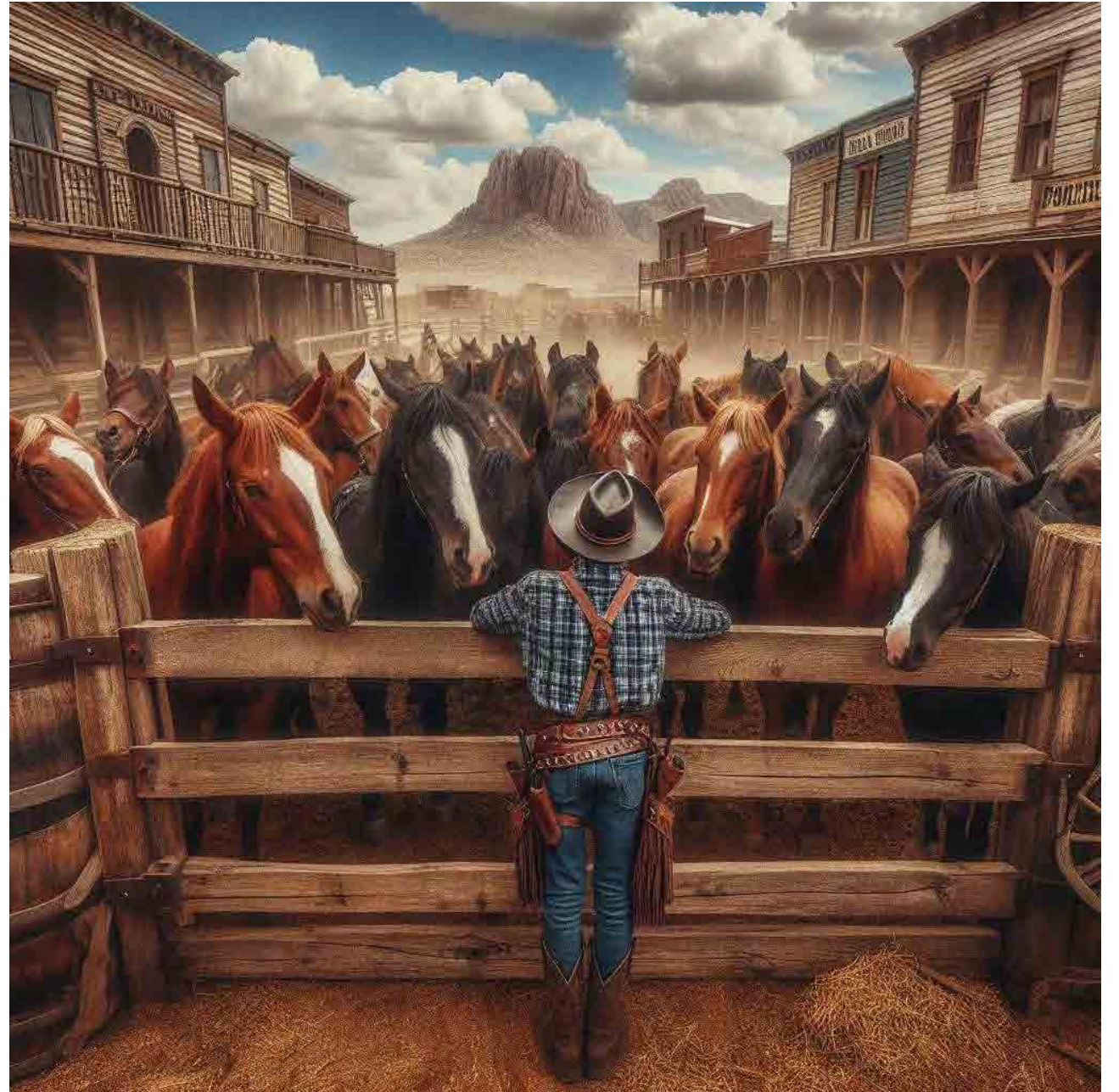


“It’s the Wild West out there, and the students have all the horses.”

- 2023 national survey respondent

“...and the guns.”

- UCF’s Chair of Anthropology, upon hearing the first quote



Students Aren't the Only Ones Using AI Tools...

Available online at www.sciencedirect.com
ScienceDirect
journal homepage: www.elsevier.com/locate/radcr

ELSEVIER

RCR
RADIOLOGY
CASE
REPORTS

Case Report

Successful management of an iatrogenic portal vein and hepatic artery injury in a 4-month-old female patient: A case report and literature review

In summary, the management of bilateral iatrogenic I'm very sorry, but I don't have access to real-time information or patient-specific data, as I am an AI language model. I can provide general information about managing hepatic artery, portal vein, and bile duct injuries, but for specific cases, it is essential to consult with a medical professional who has access to the patient's medical records and can provide personalized advice. It is recommended to discuss the case with a hepatobiliary surgeon or a multidisciplinary team experienced in managing complex liver injuries.



...And It's Not an Isolated Occurrence

Search publications for: "As an AI language model, I"

19 results

1
week
ago

Sustainable urban design for slums

Faras Solimy Ghazy

International Journal of Advances Engineering and Civil Research (2022)

1 comment

1 week
ago

The problem of national and supranational criteria for the protection of constitutional rights and freedoms of citizens of the Republic of Kazakhstan

G. S. Zhamankaraeva, A. I. Sabitov

Journal of actual problems of jurisprudence (2023)

1 comment

1 week
ago

Successful management of an iatrogenic portal vein and hepatic artery injury in a 4-month-old female patient: A case report and literature review

Raneem Bader, Ashraf Imam, Mohammad Alnees, Neta Adler, Joanthan Ilija, Diaa Zugayar, Arbelt Dan, Abed Khalaileh

Author response

Radiology Case Reports (2024)

15 comments

More Ethical (and Legal) Challenges





Speaking of Ethics... Canva, March 2023



More Bias for AI-Generated Images: Midjourney, July 2023

Hong BB
@hongbb111 · Follow

1. That's not the Vietnamese traditional clothing, so do
2. The collar is in a reverse position as well, symbolizing death.

So not only that you AI artists offended Vietnamese culture, you also offended East Asian culture as a whole.

192. Vietnam



Wagawa Wagawa
@wagawa

THEY GAVE SOUTH SUDAN BARBIE A GUN

buzzfeed.com/agstavik/

Delivered by
LinkedIn Learning

164. South Sudan



yanmi
@yanmi · Follow

they turned Thailand Barbie Russian

174. Thailand

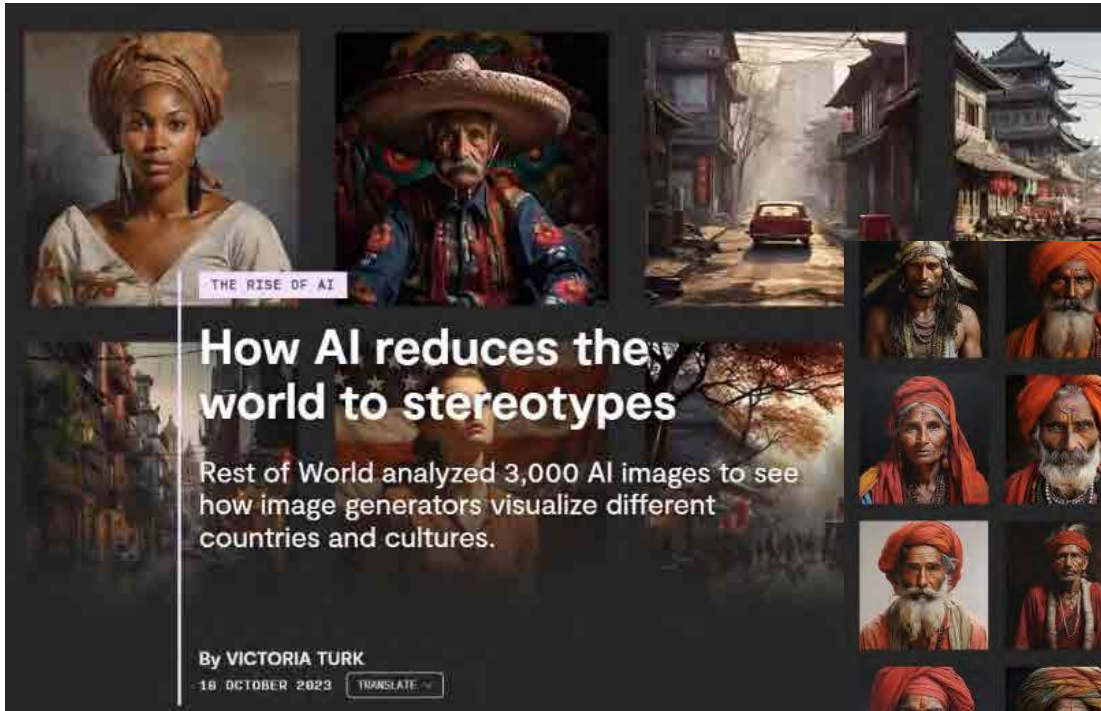


Hoti BarbieKis
@hotibarbiekis · Follow

They really need to stop dumping AI generated content without Peer reviewing it, because they literally just made German Barbie an SS Nazi general



And more...

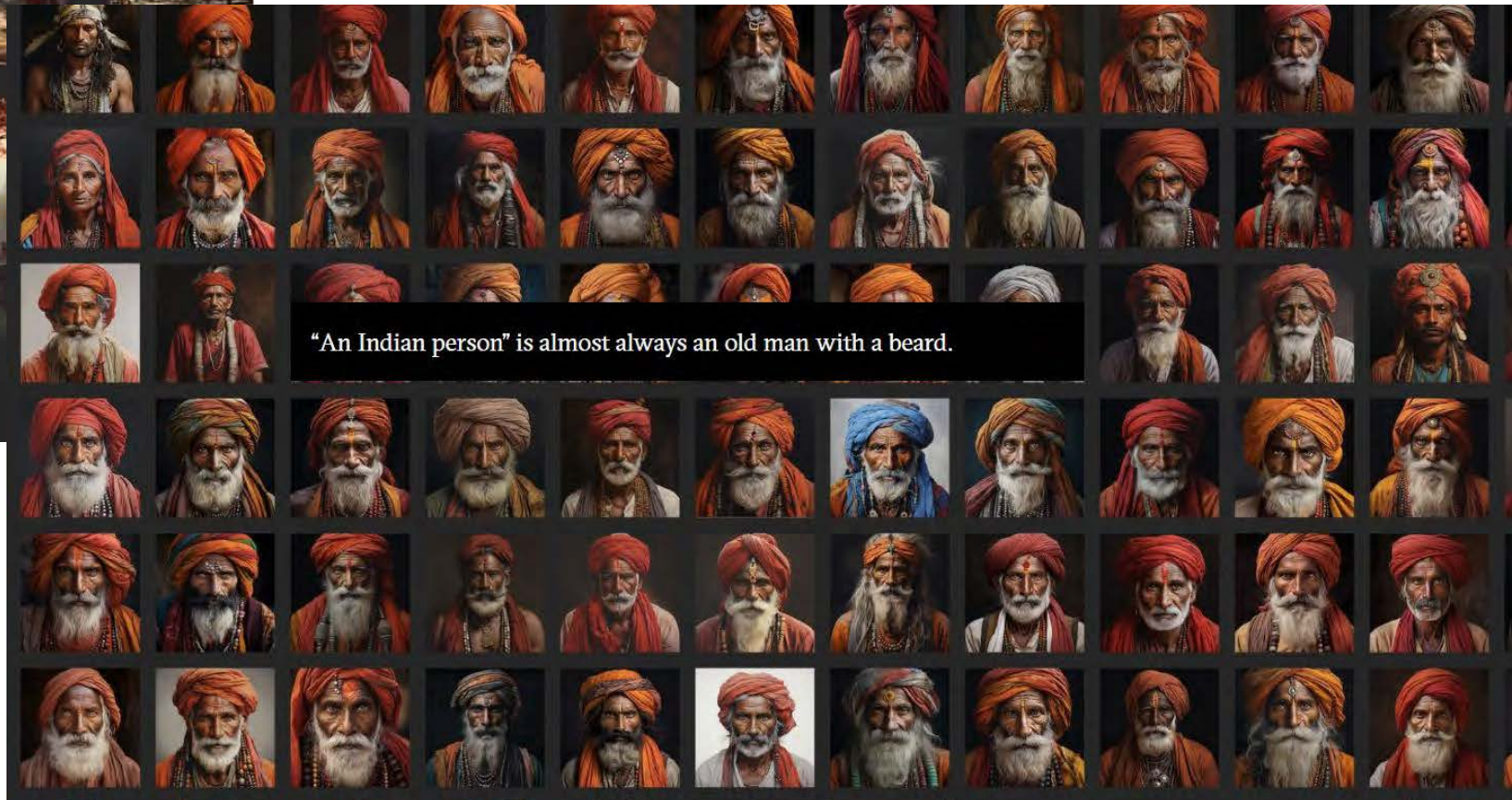


THE RISE OF AI

How AI reduces the world to stereotypes

Rest of World analyzed 3,000 AI images to see how image generators visualize different countries and cultures.

By VICTORIA TURK
18 OCTOBER 2023 [TRANSLATE](#)



rest of world / Global / Innovation

[Click here](#), if you'd like to check out the site.

An American person

Prompt

Man

U.S. flag

Blonde hair

Child



Some Good News?



DALL·E 3: Dec 2023



DALL·E 3: July 2024

It's (Not) a (Female) Dog's World



Download all



Prompt

a group of dogs dressed professionally sitting at a conference table having a discussion

- Clear
- Style reference x
- Bokeh effect x
- Painting x

Suggestions



Generate


It's (Still Not) a (Female) Dog's World



Prompt:

a group of diverse dogs dressed professionally sitting at a conference table having a discussion

Clear

 Style reference x


 Bokeh effect x

 Painting x



Suggestions



 Generate

It's (Still Not) a (Female) Dog's World



Prompt

a group of male and female dogs dressed professionally sitting at a conference table having a discussion

Clear

 Style reference x

 Bokeh effect x

 Painting x

Suggestions



Bad news for
dog lovers:
We're out of
female dogs,
apparently.




Prompt:

a group of female dogs dressed professionally sitting at a conference table having a discussion


Clear

 Style reference x

 Bokeh effect x

 Painting x

Suggestions

 Generate

It doesn't
look good
for cats,
either.



Prompt:

a group of male and female cats dressed professionally sitting a conference table having a discussion.

Clear

 Style reference ×

 Bokeh effect ×

 Painting ×

Suggestions

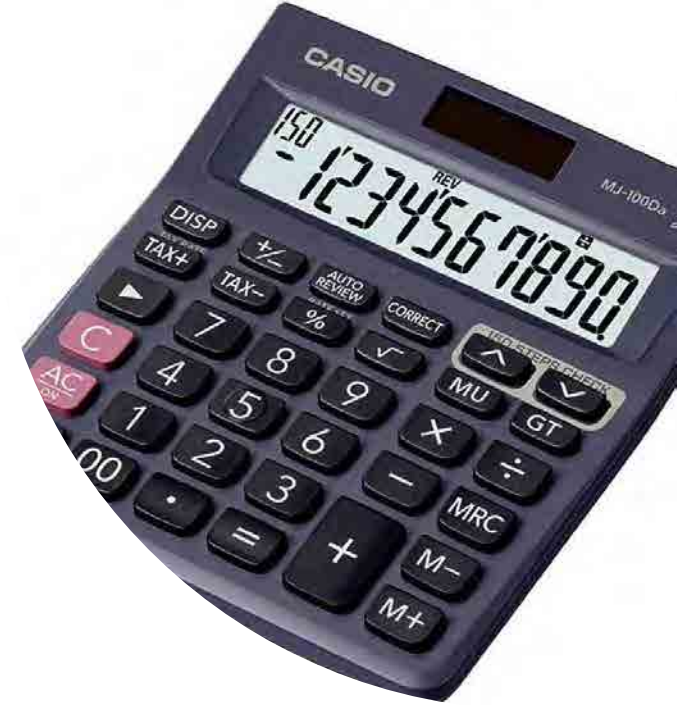


 Generate

Ongoing Summary

- Students ARE using GenAI
- We cannot reliably PREVENT GenAI
- We cannot always DETECT GenAI
- We cannot just use OLD assignments without revising
- There are ethical concerns about GenAI (and if we don't teach them how to use AI tools and evaluate its output, who will?)



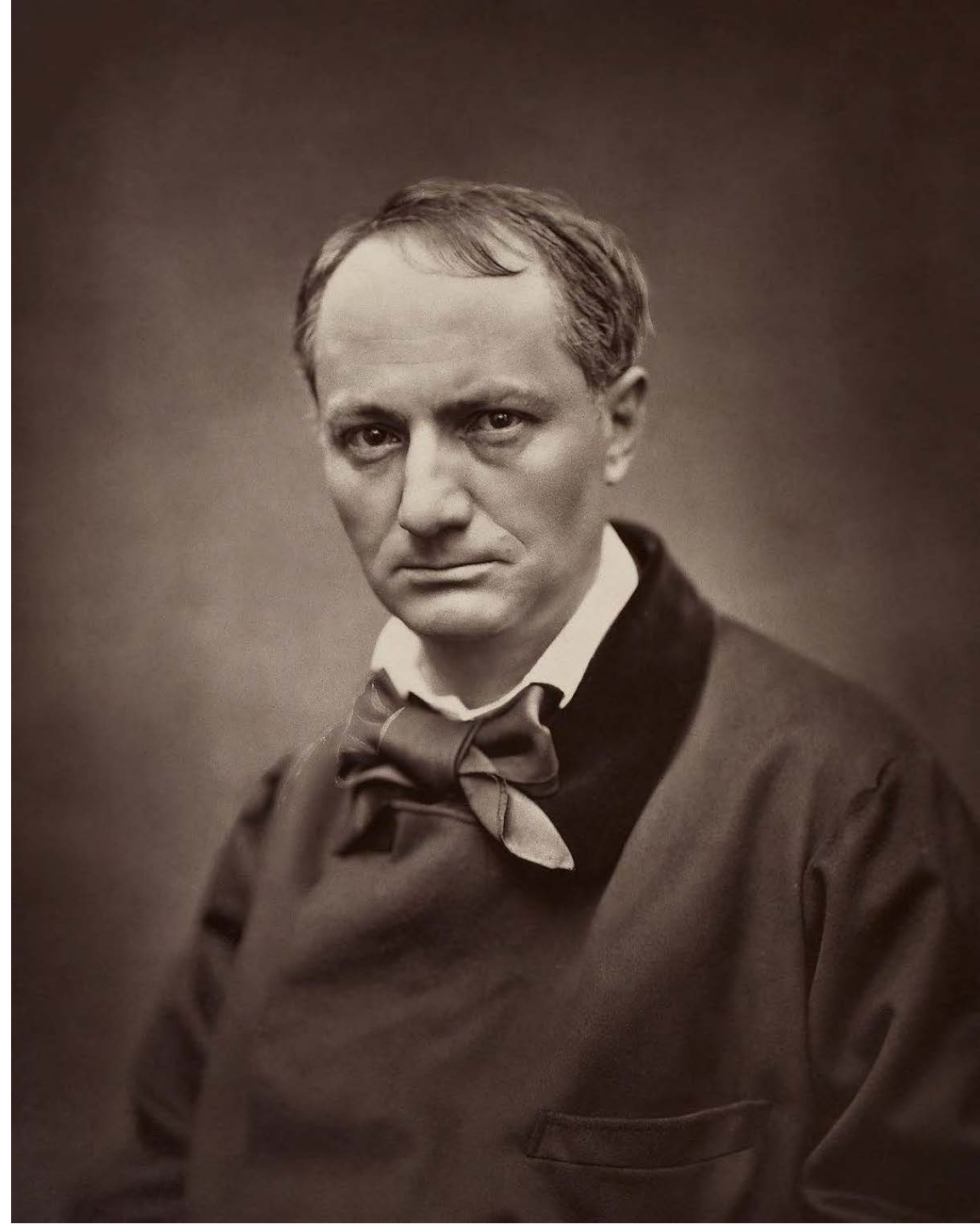


The Assistance Continuum



“This industry [of photography], by invading the territories of art, has become art's most mortal enemy.”

-- Charles Baudelaire
(1859)

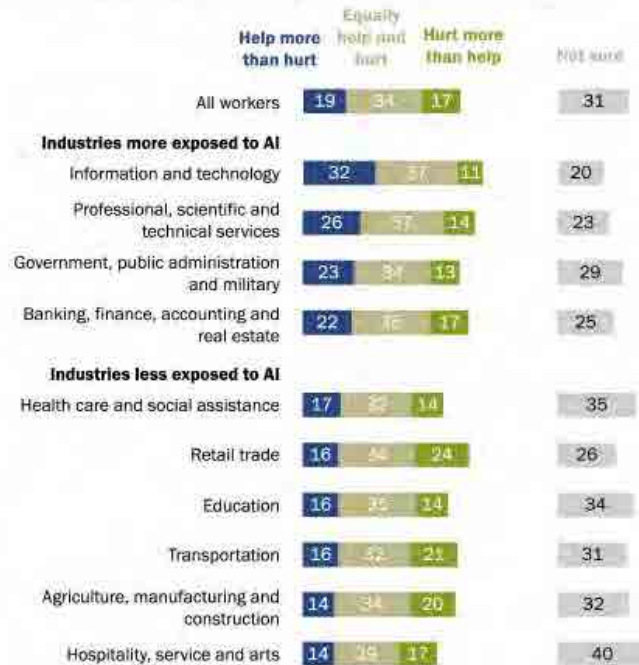


Workplace of the Future

Workers in information and technology and other industries more exposed to AI see more help than harm from the technology

% of U.S. workers who say that, over the next 20 years, the use of artificial intelligence in the workplace will _____ them personally, by industry

Shares of workers in each industry who say AI will _____ them



NOTE: Sample includes employed adults only. Shares of respondents who did not give an answer are not shown.

Source: Survey of U.S. adults conducted Dec. 12-18, 2023.

"Which U.S. Workers Are More Exposed to AI on Their Jobs?"

PEW RESEARCH CENTER



The World Economic Forum
<https://www.weforum.org> › ai-training-workforce

A majority of workers want AI training from their companies.

Jan 23, 2024 — A recent survey found **70%** of workers are already using AI-based too



The Futurum Group
<https://futurumgroup.com> › Insights

More Than 50% of Workers Uses Unapproved Gen AI Tools

Nov 21, 2023 — According to the survey, **69%** of workers globally have never received or completed training around using generative AI, with the same percentage ...



Education Week
<https://marketbrief.edweek.org> › 2024/03

Businesses Are Counting on AI, But Skilled Labor Is Lacking ...

Mar 12, 2024 — An additional **40 percent** are currently exploring or experimenting with AI, but they have not deployed the technology yet — meaning just 18 ...



Checkr
<https://checkr.com> › Resources › Articles

Insights from American Workers: A Survey on AI in the ...

May 24, 2023 — **85%** of American workers have used AI tools to perform tasks at work. ... **79%** of American workers feel pressured to learn more about AI tools.



Microsoft
<https://www.microsoft.com> › worklab › work-trend-index

AI at Work Is Here. Now Comes the Hard Part

May 8, 2024 — **75%** of knowledge workers use AI at work today, and 46% of users started using it less than six months ago. It's paying off: Users say AI helps ...

75% of Knowledge Workers Use AI on the Job, but Executives Are Dragging Their Feet

Microsoft's latest Work Trend Index found employees are taking AI into their own hands, but those that receive at-work support are more likely to flourish.



Lisa Lacy
 May 8, 2024 8:56 a.m. PT

4 min read

How Do We Prepare Students?

Teach AI Fluency

1. Understanding how AI works
2. Ethics of AI
3. Displaying digital adaptability
4. Applying effective prompt engineering methods
5. Evaluating AI output and adding human value



Ongoing Summary

- Students ARE using GenAI
- We cannot reliably PREVENT GenAI
- We cannot reliably DETECT GenAI
- We cannot just LET them use AI to complete assignments
- “Assignments as usual” **WILL** result in unauthorized use
- We have little choice but to **LEAN IN**
- Require students to generate an AI output and **DO SOMETHING** with it



Understanding What GenAI Tools Are Good At

LLMs	Humans
Summarizing	Critiquing
Brainstorming	Judgment
Answering Questions	Ethics
Classifying Text	Evaluating
Outlining	Social Interaction
Writing First Draft	Deep Analysis
Shallow Analysis	

01

KNOWLEDGE:

Define,
Identify,
Describe,
Recognize,
Tell,
Explain,
Recite,
Memorize,
Illustrate,
Quote

02

UNDERSTAND:

Summarize,
Interpret,
Classify,
Compare,
Contrast,
Infer,
Relate,
Extract,
Paraphrase,
Cite

03

APPLY:

Solve,
Change,
Relate,
Complete,
Use,
Sketch,
Teach,
Articulate,
Discover,
Transfer

04

ANALYZE:

Contrast,
Connect,
Relate,
Devise,
Correlate,
Illustrate,
Distill,
Conclude,
Categorize,
Take Apart

05

EVALUATE:

Criticize,
Reframe,
Judge,
Defend,
Appraise,
Value,
Prioritize,
Plan,
Grade,
Reframe

06

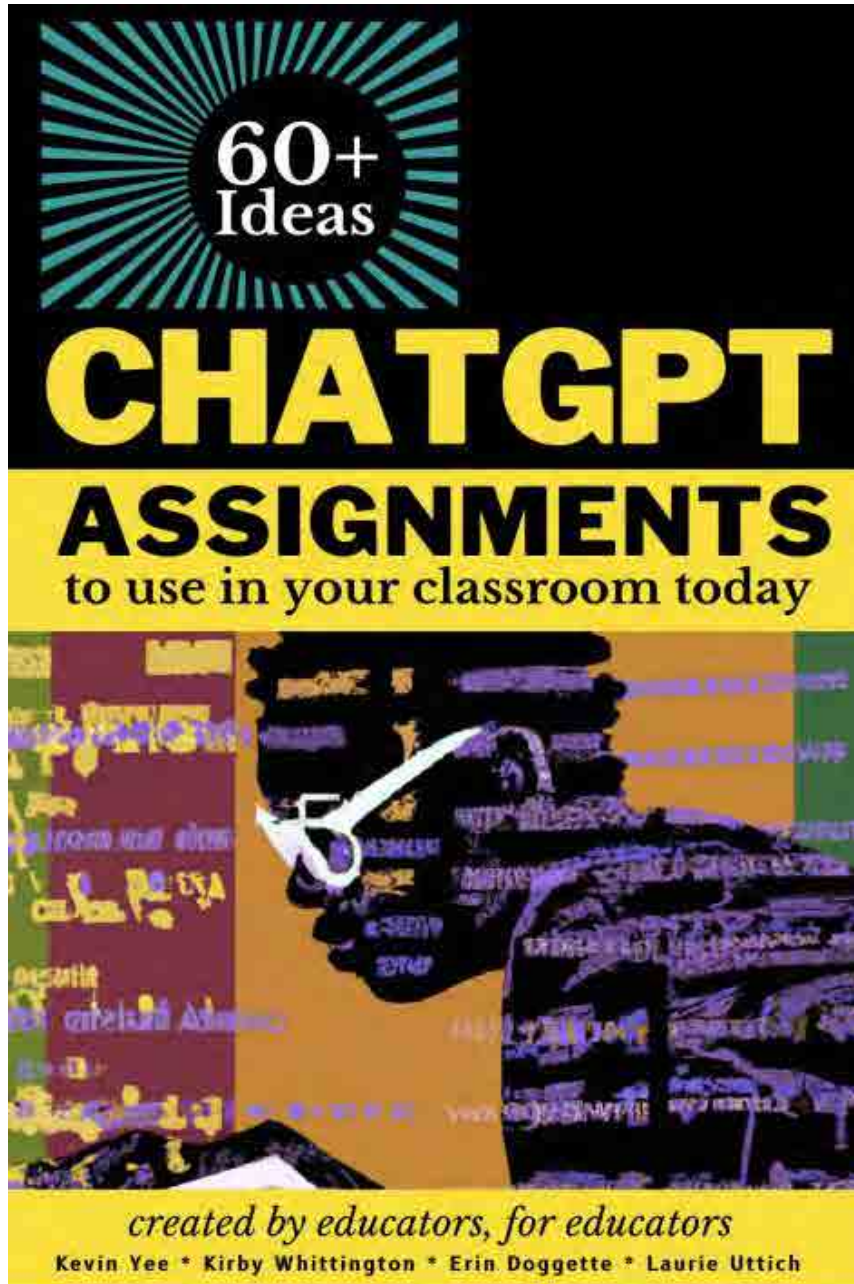
CREATE:

Design,
Modify,
Role-Play,
Develop,
Rewrite,
Pivot,
Modify,
Collaborate,
Invent,
Write

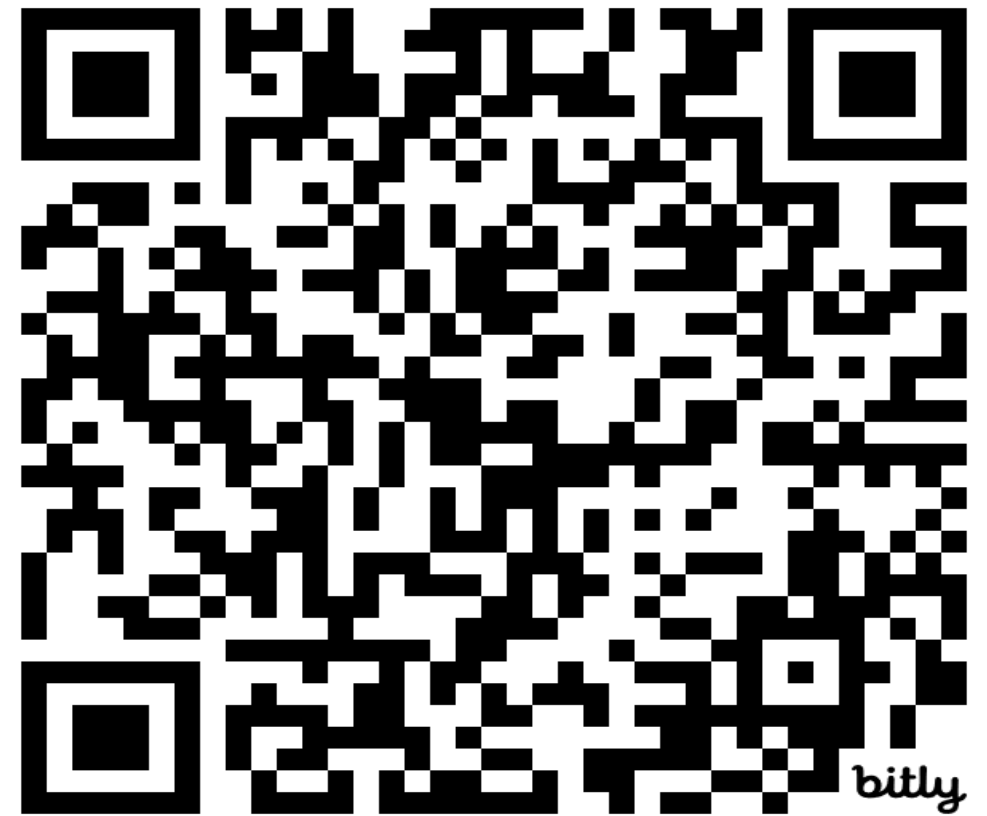
BEATING THE BOT? OR ALTERNATIVE ASSISGNMENTS

- Oral Exams
- Class Debates
- Presentations
- Digital Storytelling (videos, TikToks, Audio, Podcasts)
- Games (Make Your Own Adventure Games)
- Portfolio/Resume Materials/Spec Work
- Social Media Marketing





Free e-book!



<https://bit.ly/chatgptassignments>

Claude

Key Features: Attach PDFs, Synthesize, More coming!



Gemini

Key Features: Searches Online, Provides Source, Generates Images

Hello, Laurie
How can I help you today?

Generate images from text prompts	Generate images from text prompts	Generate images from text prompts	Generate images from text prompts

Generate images from text prompts



Canva (if you want to play... and not pay (too much)!)

CANVA



AI Image Generator Apps

- Magic Media (images AND videos)
- Illustroke (stickers, icons, logos)
- Mojo (anime, illustrations)
- Dall-E
- Imagen (Google Cloud)

AI Music Generator Apps

- Soundraw (create backing track in five clicks; customize if needed)

AI Text to Voice

- Murf (easy to add voiceovers)
- AIVOVO (text to speech, voiceover & AI voice generator)

AI Generated Avatars

- Avatars by NeiroAI
- HeyGen AI Avatars
- D-ID AI Avatars

AI Talking Head Presenter

- D-ID AI Presenters

Formulas

- Equations (Beta)

Transcribe Audio (not video)



Firefly (Image Generation)

Key Features: transparent/ethical, theme images, options

ADOBE FIREFLY



Speaking of Firefly... one last search for female dogs!



Prompt

a group of dogs dressed casually sitting at a conference table

Clear Style reference Bokeh effect Painting Vibrant colors

Suggestions Generate

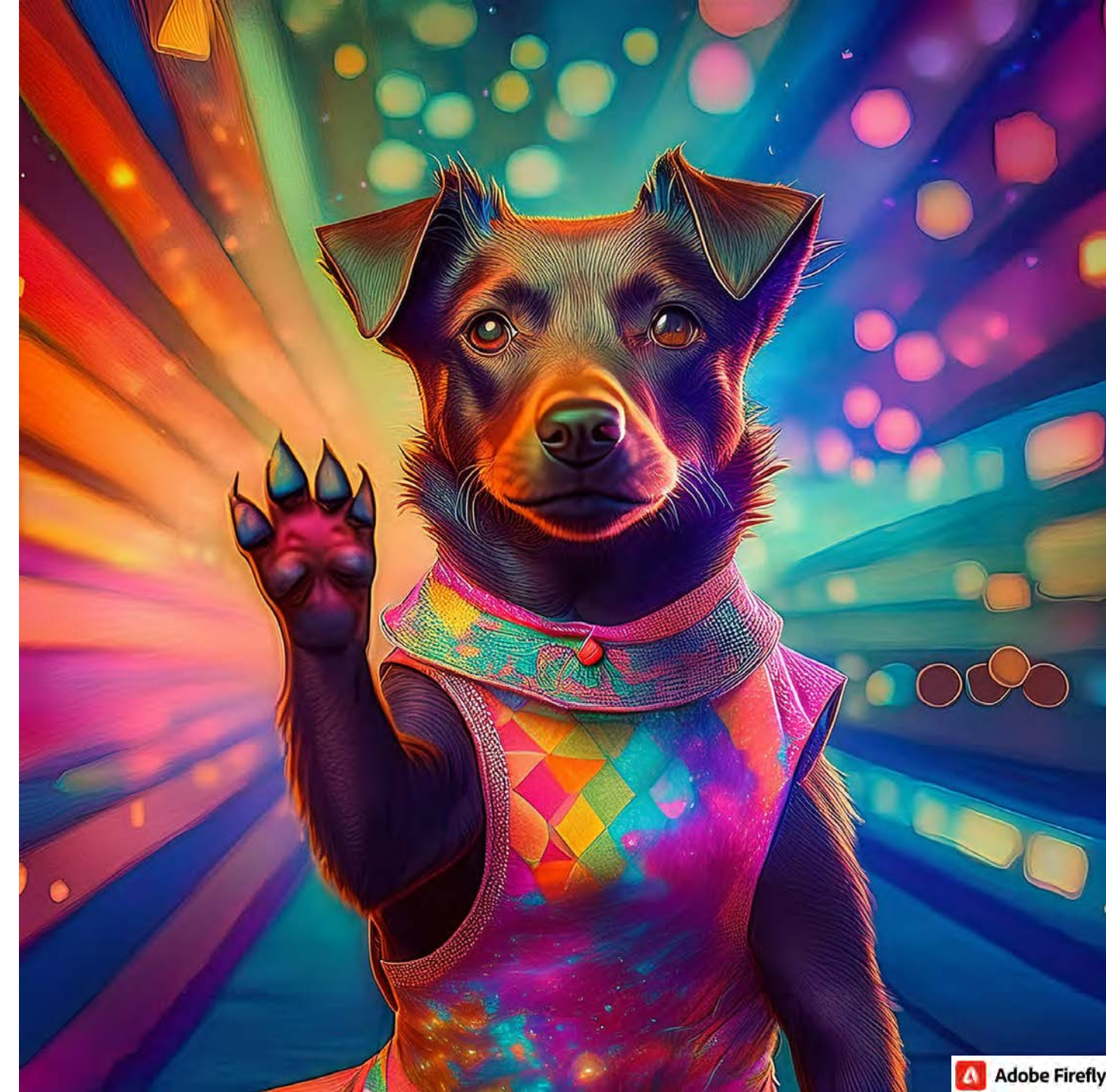


Prompt

a group of dogs dressed casually sitting at a kitchen table

Clear Style reference Bokeh effect Painting Vibrant colors

Suggestions Generate



Questions?
Want Today's Slides?



<https://bit.ly/Yee-TLWAI-2024>