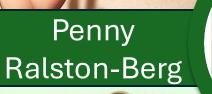
Using AI to Generate Engaging Course Content

Weak

Exploring Educational Content, Creative Ideation, and Image Description



Lisa Byrnes





### Kate Morgan



### Your Presenters (by Chatty G 2024)

Lisa Byrnes

Penny Ralston-Berg

Your Presenters (by Chatty G 2025)

### Kate Morgan



# From Rubrics to Custom GPTs

### Introduction to AI in Education







Why AI matters in teaching and learning

Enhancing productivity and personalization

A tool to support, not replace, faculty roles

### Getting Started with AI Tools

Popular AI tools: ChatGPT, Bing, Copilot, Gemini

Free and paid versions

Access via chat.openai.com (ChatGPT)



Use Bloom's Taxonomy for structure

### Writing Learning Objectives

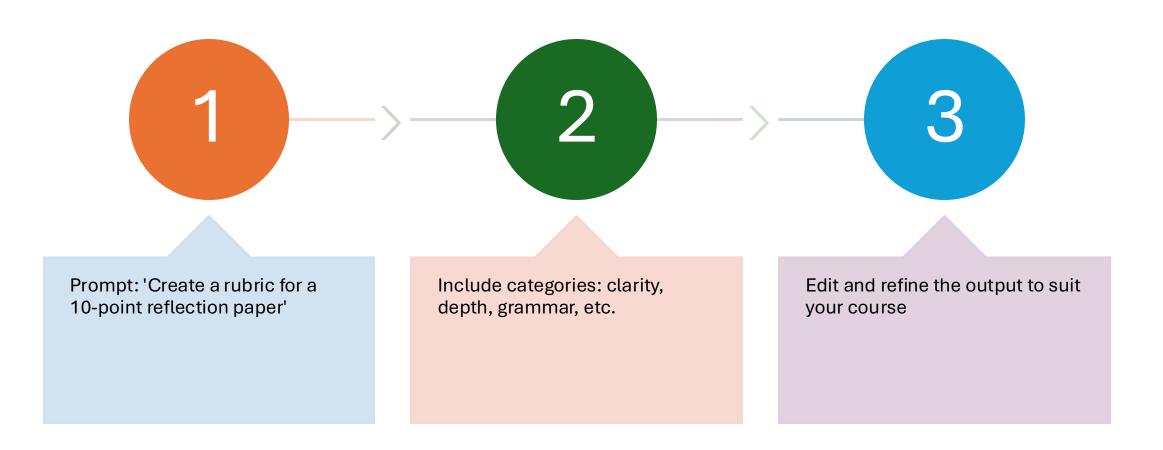


Prompt: 'Write 3 objectives for a lesson on X'



Al generates clear, measurable outcomes

## **Create Rubrics**



### **Project Assignment Rubric (40 Points Total)**

Criteria	Excellent	Proficient	Needs Improvement	Points Available
Analysis Description	Clearly explains the intended analysis, demonstrating a strong understanding of research studies and Excel techniques. Justification is well- supported by relevant literature and Excel practices. (10 points)	Provides an adequate description of the analysis, referencing research studies and Excel techniques, but with minor gaps in clarity or justification. (7 points)	The explanation is vague, lacks depth, or does not effectively reference research studies or Excel practices. (4 points)	10 points
Use of	Effectively integrates	References research	Limited or no reference	7 points

### **Generating Assessments and Activities**



Quizzes: multiple-choice, true/false



Essay prompts or short answer questions



Case studies and role-play scenarios

### **Enhancing Student Engagement**

Interactive scenarios and debates Writing partners or feedback tools

Al-generated study guides or summaries

### Administrative Uses of AI

Drafting	Analyzing	Managing	
Drafting syllabus policies and course communications	Analyzing student feedback	Managing schedules and planning	

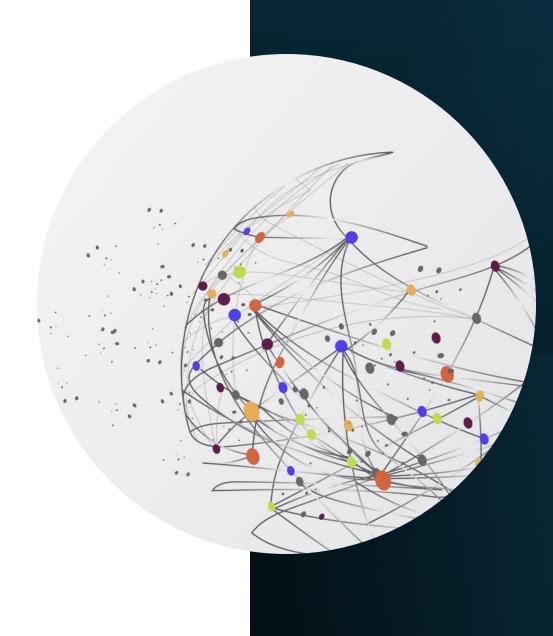
### **Example Custom GPTs for Education**

Labor Law Tutor: Answers casebased questions

Case Study Sim: Interactive decisionmaking tool Writing Coach: Gives feedback based on your rubric

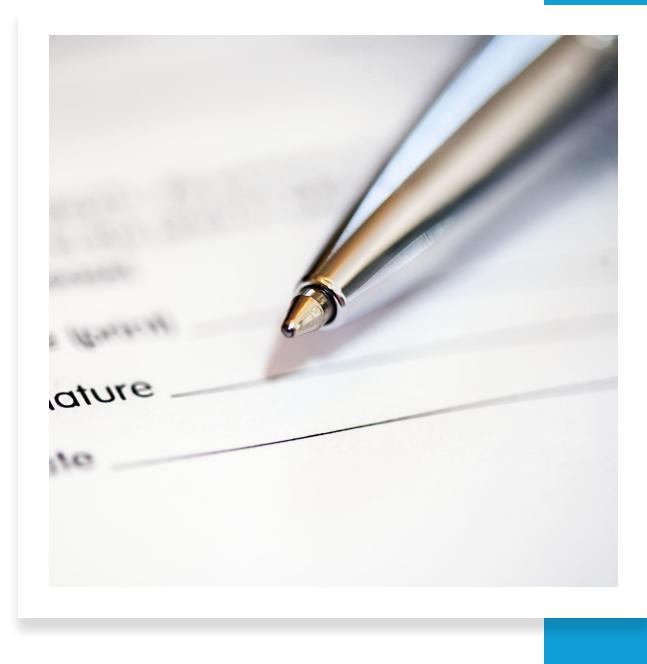
## Creating a Scenario with Custom GPTs

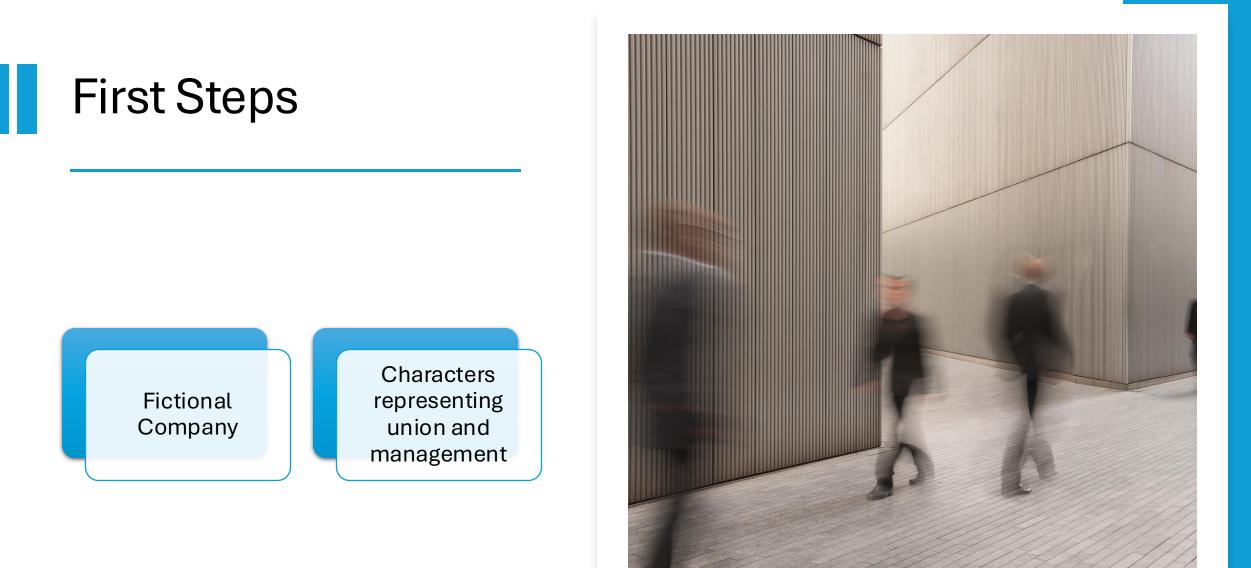
Leveraging AI to Enhance Learning and Engagement



### Goal

- Starter Story (Chat GPT4)
  - Fictious company
  - Characters
- Scenario with New Topic (Custom GPT)
  - Storyline continued each week
  - Same Characters
  - Assignments
  - Rubrics





### **Company: TechTronic**

### Original

	ŀ
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Cutting-edge technology company

### SME/ID Update



Software company



**Dedicated workforce** 



Diverse workforce



Automate processes



Compensation structure, adopting new technologies and automating processes

### **Scenario Characters**

### **ChatGPT Suggestions**

Common Names & Nationalities:

• Marianne, Elliot, Grace, Alexander, Sophia

#### Vague profiles

- Years with company
- Current Position

### **SME/ID Updates**

Diverse Names & Nationalities:

• Lola, Malik, Aisha, Aki, Kyda

#### In Depth Profiles

- Years with company
- Job Title
- Educational Background
- Professional Experience
- Area of Expertise
- Major Achievements

r Science from Massachusetts Institute of

re Engineering from Stanford University.

rare developer at a startup focused on developing n tools. Her contributions were pivotal in successfully p product, which gained significant traction in the



Lola, Software Engineer

Aisha, Financial Analysis

#### nalysis

from the Wharton School of the University of

tion (MBA) focusing on Strategic Management from

cial consulting, providing strategic financial advice to r work involved financial modeling, investment turing advice.

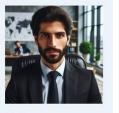
#### mmunications/Public Policy Specialist

#### ound:

nce in Communications from the University of Southern California. Administration with a concentration in Public Policy from Harvard

#### ence:

career in political campaigning, developing a keen understanding of nication and grassroots mobilization. His work focused on bor rights and public policy changes that benefit workers. I stint, Malik moved into the non-profit sector, working for a rganization. Here, he honed his organizing, advocacy, and public ading several successful campaigns for labor rights.



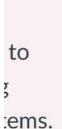
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plex

Malik, Communications/Public Policy Specialist



Aki, Senior Project Manager fornia,





Kyda, Middle-Level Operations Manager

### **Characters Created by Al**

# Designing the Custom GPT

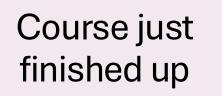
- Scenario crafter included:
  - Characters profiles built in ChatGPT 4
  - File used as Knowledge
  - Developed specific steps to be executed in Custom GPT
  - Plugged in various topics for each week

### Assignment Topics

- Early Stages of Union Organizing at TechTronic
- Union Organizing at TechTronic Innovations
- Negotiation and Compromise in Labor-Management Relations
- Resolving the TechTronic Strike
- Navigating the Post-Ratification Phase of a CBA

### **Custom GPT Demo**

### Faculty Insights and Adjustments



Students enjoyed the authentic assignments

Updates and enhancements

### Final Tips and Takeaways

- Start small: try objectives, rubrics, or quiz questions
- Develop confidence, move to custom GPT's
- Improve Efficiency
- Encourage ethical student use
- Explore custom GPTs for long-term value

Introduction to Al Imagery Trained on millions of images to learn patterns and features.

### 2025 Updates:

- Text and spelling have gotten much better
- Images are much more realistic
- Videos are entering the arena
- Al and "see" and "understand" better!

# POLL

"What's your biggest curiosity or concern with Al images?"

## **Popular Tools**

**DALL-E 3** (in ChatGPT+ and CoPilot with inpainting): Great for visual ideation and prototyping

Adobe Firefly 2 (focus on commercial-safe imagery)

AdobeExpress or Canva AI for text + design combos

**OpenAl Sora** (mention as a video-generating evolution)

# Al Image Tools Comparison

ΤοοΙ	Best Use Case	Commercial Use Policy	Key Features	Interface	Accessibility
Adobe Firefly 2	Commercial-safe imagery, professional design assets	Yes, safe for commercial use with content provenance tools	Content credentials, generative fill, vector generation	Web-based in Creative Cloud, professional suite integration	Requires Adobe subscription (Creative Cloud)
DALL·E 3	Creative ideation, inpainting, imaginative visuals	Yes, but user is responsible for rights compliance	Inpainting, advanced prompt following, integration in ChatGPT+	Chat-based (ChatGPT), CoPilot, or API access	Requires ChatGPT Plus or Microsoft CoPilot
Adobe Express	Quick branded content with templates, integrated AI effects	Yes, aligned with Adobe's content safety tools	Al effects, design templates, brand kits	Web app, easy integration with Adobe tools	Free with Adobe account, some features premium
Canva Al	Social media graphics, educational visuals, AI-enhanced design	Depends on content source; user should verify licenses	Magic Write, Al design suggestions, drag-and-drop	Web-based, user-friendly, great for non-designers	Freemium model, premium templates and Al features

Morgan, K. (2025). Al image generation tools comparison: Adobe Firefly 2, DALL·E 3, Adobe Express, and Canva AI. Compiled from product documentation and usage guidelines. Presented at Higher Ed Quality in Action, April 2025

# Citing an Al Image

### Include:

- **Tool used** (e.g., DALL·E, Midjourney, Firefly)
- **Prompt** (or a short description of what was requested)
- Creator (you, the user who input the prompt)
- Date of creation
- Platform/Access point (e.g., ChatGPT,

Midjourney)

### Concerns About Copyright

Adobe Firefly 2 (launched 2024) images are safe to use commercially — and you can trace how they were made

**DALL-E 3** does not knowingly reproduce copyrighted content, but it does not guarantee copyright compliance either.

**OpenAI's Terms of Use** say: you can use the images for **any purpose**, including commercial use, but **you're responsible** for ensuring your use doesn't infringe on third-party rights.

### What can you do with Al Imagery?

Create scenarios for instruction or tutorials

Visuals for presentations

Illustrate abstract or emotional concepts

Character development

Honestly, almost anything...

# But it can also be used in reverse!

- Upload an image  $\rightarrow$  Ask for Accessible Alt text
- Upload an image with text  $\rightarrow$  Ask for the text
- Upload a chart  $\rightarrow$  Ask for a summary
- Upload an infographic  $\rightarrow$ Ask for a simplified summary to create content for a 5<sup>th</sup> grader.

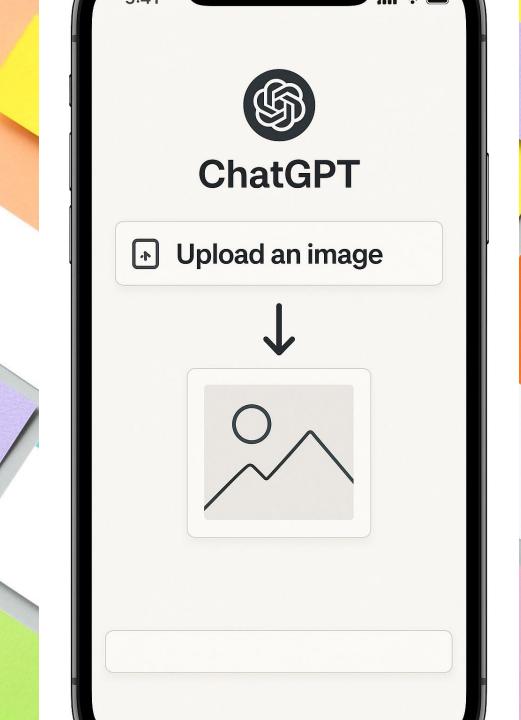


Image generated using DALL·E 3 (OpenAI), April 2025. Prompt: "A vertical rectangle that depicts an image being uploaded to ChatGPT."

### Ethical Awareness

**Bias** in datasets = biased outputs

**Consent & Copyright**: Who owns the image? What if it steals from real artists?

**Misinformation:** Al can make fake but convincing visuals

## Al or Real Image?



# Al or Real Image?



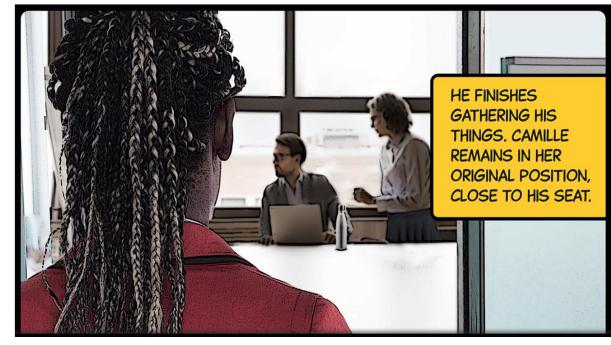
### **Creative Ideation Using AI**



 $\begin{array}{ccc} \text{ORIGINAL} & \rightarrow & \text{GENDER} & \rightarrow & \text{EXPRESSION} \end{array}$ 

Sexual Harassment Scenario using 'Inpainting'





# **Current Discussions**

 $\bigcirc$ 

- Deepfakes
- Misinformation
- Bias and representation

The Al Act in the EU and FTC guidance in the U.S. are shaping how imagery is created and used.

Q

Understanding ethical guardrails is as important as knowing how to prompt.

Create a logo for a company called "Global Robot"

# Supplemental graphics (details)

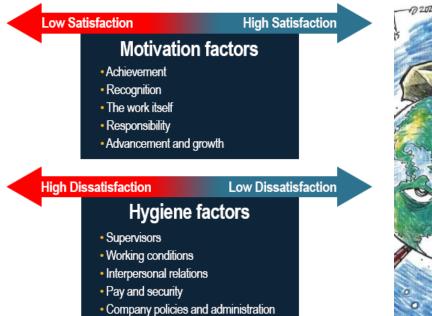


Create a corporate umbrella

> Create a "thought prompt" icon



#### Herzberg's Two-Factor Theory





#### Poverty in the United States

Percentage of people in poverty by state: 2015

ND

SD

KS

TX

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Percent

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U.S. perc





• Captions

AZ

MT

co

- Summaries
- Long Descriptions

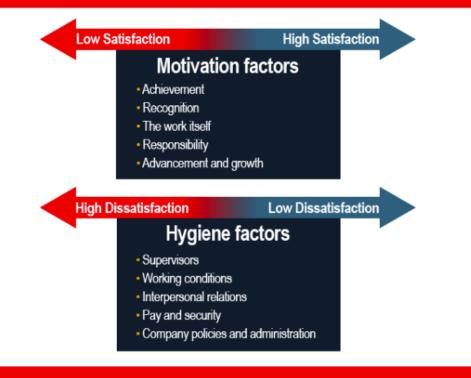


# Image Description Specialist

By Penny Ralston-Berg ℜ

WCAG specialist for concise image descriptions.

#### Herzberg's Two-Factor Theory



#### Alt Text:

Herzberg's Two-Factor Theory diagram showing Motivation and Hygiene factors as influences on satisfaction and dissatisfaction.

#### Long Description:

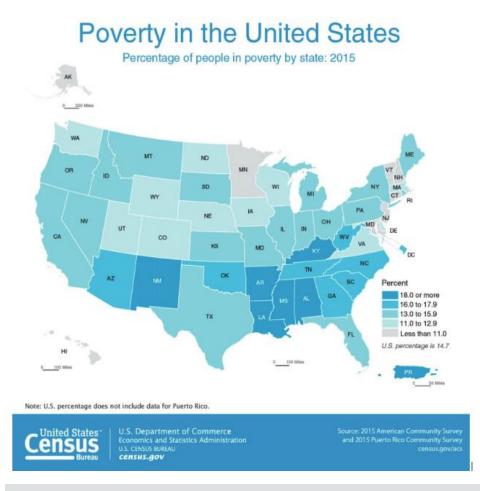
This diagram illustrates Herzberg's Two-Factor Theory, separating factors that influence job satisfaction and dissatisfaction. The layout includes two horizontal sections, each with a gradient arrow indicating the continuum of satisfaction to dissatisfaction.

- **1. Motivation Factors** (top section, labeled from "Low Satisfaction" to "High Satisfaction"):
  - Achievement
  - Recognition
  - The work itself
  - Responsibility
  - Advancement and growth

These factors are associated with increased satisfaction.

- 2. Hygiene Factors (bottom section, labeled from "High Dissatisfaction" to "Low Dissatisfaction"):
  - Supervisors
  - Working conditions
  - Interpersonal relations
  - Pay and security
  - Company policies and administration

These factors relate to the prevention of dissatisfaction.



#### Alt Text:

Map of the United States showing poverty rates by state in 2015, with darker shades indicating higher poverty rates.

#### Long Description:

This map shows the percentage of people in poverty by state in the United States for the year 2015. States are shaded in different colors based on poverty rates:

- Dark blue: 18.0% or more in poverty
- Medium blue: 16.0% to 17.9% in poverty
- Light blue: 13.0% to 15.9% in poverty
- Pale blue: 11.0% to 12.9% in poverty
- Light gray: Less than 11.0% in poverty

Several southern states, including Mississippi, Louisiana, and New Mexico, have the highest poverty rates (dark blue). In contrast, northeastern states like New Hampshire and Vermont have the lowest poverty rates (light gray). A note at the bottom indicates that Puerto Rico is not included in the U.S. percentage data. The national average poverty rate for 2015 is listed as 14.7%.

There's a scale in miles for reference, and the map is sourced from the U.S. Census Bureau, based on data from the 2015 American Community Survey.



#### Alt Text:

A cartoon of Earth with a thermometer and an ice pack on its head, looking sick. Two aliens in a spaceship observe, with one saying, "They're willing to do this to their own home... and they wonder why we haven't made contact?!"

#### Long Description:

This cartoon depicts Earth, personified with a sick expression, a thermometer in its mouth, and an ice pack on its head, suggesting illness. The planet's continents are visible, and its facial expression looks tired and concerned. Floating nearby, two green aliens in a flying saucer watch Earth from their cockpit. One alien gestures while speaking, and a speech bubble above them says, "They're willing to do this to their own home... and they wonder why we haven't made contact?!"

The scene takes place in space, with stars and planets surrounding the figures. The cartoon is signed "Darkow, Columbia Missourian, 2023."

## Al is Transforming OUR WORLD

- more realistic AI-generated images
- development of AI systems that can interpret emotional cues in images
- diversity and bias issues are evolving

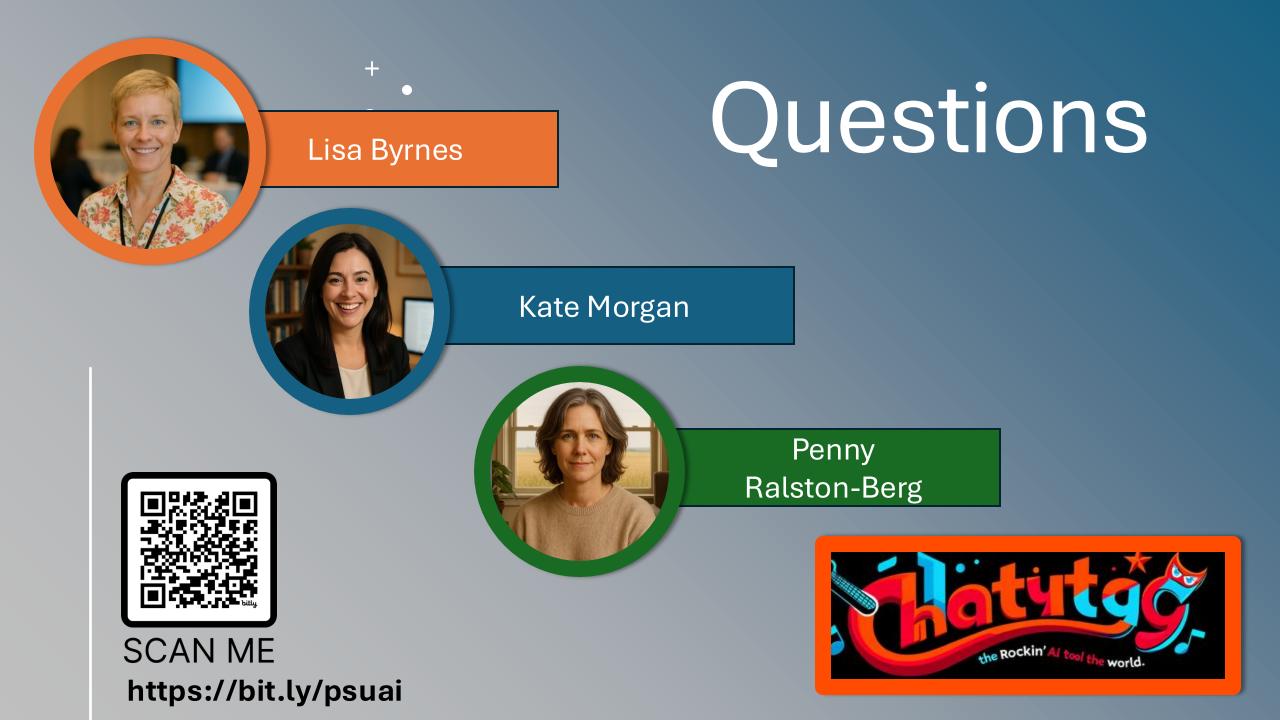
\*Major updates are happening <del>every couple of</del> months EVERYDAY! (according to AI).



# It's not just images... Al is becoming your co-creator across formats.

### Let's Play with Images! A simple prompt: subject --> action-->outcome

Create	Describe	See
Create a storyline image: • Al walks into a bar	An image of an abstract concept: • What does curiosity look like?	See how many biases are depicted: • How can I visualize poverty?



### Future Applications of AI

Exploring further integration of AI into diverse educational fields. Potential for scaling up the custom GPT approach across other disciplines. Continuous improvement based on technological advancements and feedback.