

The HyFlex of Blended Learning: Popular Frameworks for Powerful Learning

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Poll: Have you ever taken or taught a blended learning or HyFlex course?

- Yes many.
- Yes, just a couple.
- No, but I taught one or more technology enhanced ones.
- No but I am willing to try.
- No and I like it that way.

2

Blended Learning

3

Myth: Blended learning is easy to define.
Myth: Blended learning is hard to define.

Blending Online and F2F Instruction

“Blended learning refers to events that combine aspects of online and face-to-face instruction” (Rooney, 2003, p. 26; Ward & LaBranche, 2003, p. 22)

4

Historical Emergence of Blended (Graham, 2006)

5

Myth: There is a best model of blended.

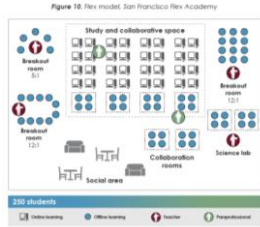
AMA Special Report, Effectively Implementing a Blended Learning Approach (Steven Shaw & Nicholas Igreri, 2006)

AMA at Work: lifelong learning, lifelong growth

Source: American Management Association, AMA at Work

6

Blended Model. Flex (curriculum primarily online with instructors available FTF)



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June 17, 2021 How can higher ed move blended learning forward?

Jessica Rowland Williams, eCampus News
<https://www.ecampusnews.com/2021/06/17/how-can-higher-ed-move-blended-learning-forward/>



How can higher ed move blended learning forward?
June 17, 2021
A new resource can help higher education faculty optimize blended learning strategies and options.

8

June 17, 2021 Planning for a Blended Future: A Research-Driven Guide for Educators

<https://www.everlearnereverywhere.org/resources/planning-for-a-blended-future/>



Figure 11. Visualization of a blended program.
Planning for a Blended Future // Re/defining the Blend Page 21

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June 17, 2021 Planning for a Blended Future: A Research-Driven Guide for Educators

<https://www.everlearnereverywhere.org/resources/planning-for-a-blended-future/>



Figure 1. The pedagogical shift from instructor-led to student-centered.

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June 17, 2021 Free Book: Hybrid-Flexible Course Design

<https://edtechbooks.org/hyflex>

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Fall 2021 Hybrid Modality: HyFlex Teaching

<https://instructionalcontinuity.georgetown.edu/pedagogies-and-strategies/hybrid-hyflex-teaching/>

In a HyFlex course, courses are delivered both in person and online at the same time by the same faculty member. For any given class meeting, some students might participate in person, while others might participate at the same time online, made possible by a combination of cameras, microphones, displays, and other technology in the classroom.



Some considerations for Concurrent or HyFlex Teaching and Learning

The physical campus constraints and health guidelines will make designing a HyFlex environment in the fall challenging. A brief commentary will explore some design questions to ask. The notes appear in the document with the HyFlex 1.0 report and should be used as a starting point for discussion.

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Fall 2021

Hybrid Modality: HyFlex Teaching

<https://instructionalcontinuity.georgetown.edu/pedagogies-and-strategies/hybrid-hyflex-teaching/>
HyFlex (a term coined by **Brian Beatty**) stands for a combination of "hybrid," meaning alternating between face-to-face meetings and remote interactions, and "flexible," meaning students move between these participation options.

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Silver Lining for Learning

Episode 49 | HyFlex Course design: Conditions, Controversy & Craftsmanship

HyFlex Course Design: Conditions, Controversy & Craftsmanship

silverliningforlearning.org
 Episode #49
 March 6 5:30pm Eastern

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Clearly... Learning is Changing!

How Online Learning is Changing Classroom Design

15

Education 3.0...Education 20/20

"In Education 3.0, classrooms would move away from lectures, such as this one, to having class time be spent on discussions and projects, using digital technology."
 (Per Wikipedia: https://en.wikipedia.org/wiki/Education_3.0)

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Now What is Education 4.0?

"Innovation-producing education. Learn more in: Development of Individual Agency within a Collaborative, Creative Learning Community"

<http://www.igi-global.com/dictionary/education-40/41255>
<https://thinc.in.th/engadmission/education4.html> (Chula Engineering)

1.0: Dictation of Knowledge
 2.0: E-Learning
 Knowledge: a commodity in modern world
 Skills: 21st century skill
 Attitude: Can-Do Attitude
 Knowledge Economy
 3.0: Knowledge-Producing
 4.0: Innovation-Producing
 Innovation Society

Thailand Education 4.0

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Education 20/20

VISION 20/20
 Fulfilling the Promise of Public Education

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20 New Roles of the Instructor

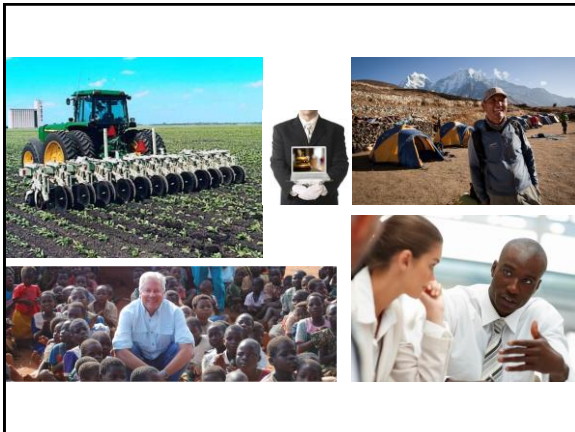
Captain **Course Ambassador** **Consumer Advocate**
Counselor **Curator**
Conductor **Concierge** **Cook** **Change Catalyst**
Camping Trip Guide **Comedian**
Consultant **Course Expedition Leader** **Collaborator**
Community Organizer **Chemist** **Care Giver**
Cultivator **Colleague**



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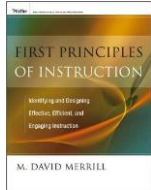



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Merrill's First Principles of Teaching/Instruction

<http://travellinedman.blogspot.com/2011/05/bonks-last-principles-of-instruction.html>

Integration	Activation
Problem/ Task	
Application	Demonstration
The First Principles Four Phase Cycle of Instruction	

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Bonk's 20 "Last" Principles of Instruction (LAST = Learning Activation System Template)

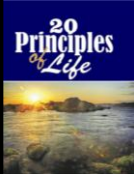


<http://travellinedman.blogspot.com/2011/05/bonks-last-principles-of-instruction.html>

Flexibility **Support and Feedback** **Choice and Options**
Convenience **Spontaneity** **Nontraditional Learning**
Collegiality **Organization** **Passion and Inspiration**
Cheerfulness and Optimism **Sharing** **Relevance and Meaningfulness**
High Expectations **Purpose and Vision** **Trial and Error (i.e., it is ok to fail)**
Empowerment and Autonomy **Human Connectedness** **Expanded Resources**
Cognitive Apprenticeship **#20 ???**

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Bonk's Last Principles of Teaching/Instruction (Education 4.0?)

<http://travellinedman.blogspot.com/2011/05/bonks-last-principles-of-instruction.html>
<http://www.applica@bel.com/articles/education-4-0/>

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2025: AI, AI, AI, AI... AI in Higher Ed News

Revolutionizing storytelling with AI: Empowering ELLs
Susan Blaz, ESL Educator
February 7, 2023
Integrating AI tools responsibly empowers every student to find their voice and share their unique stories with confidence.

more than words
How to Think About Writing in the Age of AI
John Warner

Continuing the Conversation With ChatGPT About the Cost of Knowledge

Headway: 15-Min Book Summaries

25

2025: AI, AI, AI, AI... AI in Higher Ed News

Leading Through Disruption: Higher Education Executives Assess AI's Impacts on Teaching and Learning
A survey of college and university leaders provides a clear-eyed view on the promising changes taking place in the nation's campuses.
© Edward Wilson, Ed.D. | Lee News, Ed.D. | Teaching the Digital Future Series
AACU ELON

COPYRIGHT AND ARTIFICIAL INTELLIGENCE
Part 2: Copyrightability

College Leaders for Global on the Rise and Growth of Education

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January 30, 2025 Digital Education Council Global AI Faculty Survey Digital Education Council

<https://www.chronicle.com/newsletter/teaching/2025-01-30>

Digital Education Council Global AI Faculty Survey 2023 | Section 2: Faculty Sentiment on AI, Roles, and Skills for the Future

Substantial change is coming to teaching

Faculty perceptions of impact of AI on the role of instructors, % of respondents
Question: How much change do you think AI will bring to your role as an instructor?

Impact Level	% of Respondents
1 (No Change)	1%
2 (Minimal Change)	8%
3 (Moderate Change)	27%
4 (Significant Change)	46%
5 (Transformational Change)	18%

64%
Almost two in three respondents believe that AI will bring a significant to transformational change to the role of instructors.

Only 9% of faculty believe that AI will bring a minimal change to the role of instructors.

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January 30, 2025 Digital Education Council Global AI Faculty Survey Digital Education Council

<https://www.chronicle.com/newsletter/teaching/2025-01-30>

Digital Education Council Global AI Faculty Survey 2023 | Section 3: Faculty Sentiment on AI, Roles, and Skills for the Future

Faculty sentiment on AI divided, with one third staying neutral

Faculty sentiment on AI in education, % of respondents
Question: What is your overall sentiment on AI in education?

Sentiment	% of Respondents
57% Positive	57%
30% Neutral	30%
13% Negative	13%

57% Positive
57% of faculty have a positive sentiment toward AI.

30% Neutral
30% of faculty took a neutral stance, indicating a substantial proportion of educators are either uncertain or have mixed feelings about AI's impact on education.

13% Negative
13% of faculty hold a negative sentiment.

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Sources Teaching with AI

<https://openai.com/blog/teaching-with-ai>
<https://cybernews.com/academy/news/teaching-with-ai-openai-new-teachers-guide/>

Teaching with AI
We're releasing a guide for teachers using ChatGPT in their classroom—including suggested prompts, an explanation of how ChatGPT works and its limitations, the efficacy of AI detectors, and bias.

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November 23, 2023 TextGenEd: An Introduction to Teaching with Text Generation Technologies WAC Clearinghouse

<https://wac.colostate.edu/repository/collections/textgened/>

TextGenEd: An Introduction to Teaching with Text Generation Technologies. Co-editor with Annette Vee and Carly Schnitzler. *Writing Across the Curriculum Clearinghouse*, 2023.

TextGenEd Collection Released
© 11/23/2023
The WAC Clearinghouse, a collaboration between the WAC Clearinghouse and the Association for Writing Across the Curriculum, is pleased to announce the release of the collection, *TextGenEd: An Introduction to Teaching with Text Generation Technologies*. This collection, co-edited by Annette Vee and Carly Schnitzler, is the digital collection addressable to anyone in search for novel and innovative ways to work in the field. TextGenEd features a combination of best practices on topics such as AI ethics, research and data management, teaching experience, and professional writing, along with an instructor's guide, instructor understanding, and their selection of what to emphasize in their courses.

TEXT GEN ED
Teaching with Text Generation Technologies
Annette Vee, The Clearinghouse & Carly Schnitzler

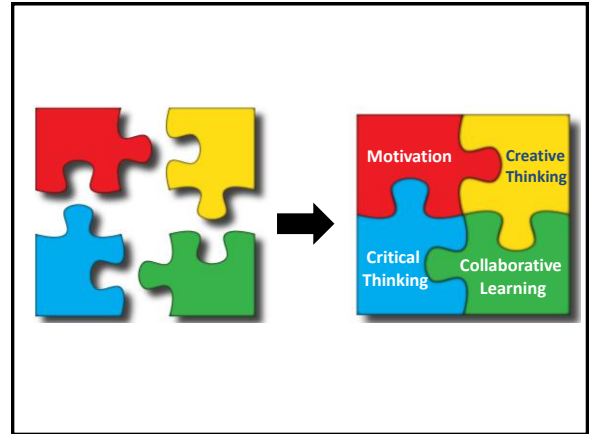
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July 23, 2023

101 creative ideas to use AI in education, A crowdsourced collection

Chrissi Nerantz, Sandra Abegglen, Marianna Karatsiori, & Antonio Martínez-Arboleda (Eds.). (2023). 101 creative ideas to use AI in education. A crowdsourced collection (2023.1.2) [Computer software]. Zenodo. <https://doi.org/10.5281/zenodo.8355454>
<https://www.chronicle.com/article/how-will-artificial-intelligence-change-higher-ed>

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MOTIVATION

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Motivation Research Highlights (Jere Brophy, Michigan State University)

1. **Supportive**, appropriate **challenge**, **meaningful**, moderation/optimal.
2. Teach **goal setting** and self-reinforcement.
3. Offer **rewards** for good/improved performance.
4. **Novelty**, **variety**, **choice**, adaptable to interests.
5. Game-like, **fun**, **fantasy**, **curiosity**, **suspense**, **active**.
6. Higher levels, **divergence**, **dissonance**, **peer interaction**.
7. Allow to create **finished products**.
8. Provide **immediate feedback**, advance organizers.
9. Show intensity, **enthusiasm**, **interest**, minimize **anxiety**.
10. Make content **personal**, **concrete**, **familiar**.

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Intrinsic Motivation

“...innate propensity to engage one’s interests and exercise one’s capabilities, and, in doing so, to seek out and master optimal challenges
 (i.e., it emerges from needs, inner strivings, and personal curiosity for growth)

See: Deci, E. L., & Ryan, R. M. (1985). *Intrinsic motivation and self-determination in human behavior*. NY: Plenum Press.

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Introducing the TEC-VARIETY Framework

<http://tec-variety.com/>
<http://tec-variety.com/TEC-VARIETY-Chinese.pdf>

Tone/Climate
Encouragement, Feedback
Curiosity

Variety
Autonomy
Relevance
Interactive
Engagement
Tension
Yields Products

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September 2022
Commonwealth of Learning
 Khoo, E., & Bonk, C. J. (2022). *Motivating and Supporting Online Learners*. Burnaby, BC, Canada: Commonwealth of Learning. [Free book available: http://hdl.handle.net/11599/4481](http://hdl.handle.net/11599/4481) and free course available: <https://colcommons.org/welcome/course/details/8>; <https://www.colvee.org/>

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September 23, 2022
Motivating and Supporting Online Learners
<https://colcommons.org/my-course>

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MOTIVATION
 MOTIVATION
 MOTIVATION
 MOTIVATION
 MOTIVATION

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January 13, 2022
1. Tone/Climate:
A. Course Introductions
 (R678) <https://padlet.com/cmsmeltz/h6zbpdfos6x19l>
 (R511) <https://padlet.com/sunseol/b1yr49ljxw6cmk>

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April 11, 2022
1. Tone/Climate: B. Warm-Up Exercises: What do you know about XYZ...? (in Jamboard)
https://jamboard-google.com/d/13u2c9N01756ATaL1C0eac89F0u0u8R8CQ0u0_851Q?view=7c3

What are educational uses of mobile?

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September 24, 2020
1. Tone/Climate: C. Breakout Rooms
How Do You Make Zoom Breakout Rooms Less Boring?, Expectations, Share a link, Introductions
Bonni Stachowiak (Columnist), Ed Surge
<https://www.edsurge.com/news/2020-09-24-how-do-you-make-zoom-breakout-rooms-less-boring>

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August 21, 2023
1. Tone/Climate:
D. ChatPDF: Generate Questions for Guest Speakers
https://curtbonk.com/R622_online_syllabus_Fall_2023.htm

Option: We are reading... "Exploring Interactions in a Synchronous Hybrid Language" Class (by Dr. Chaoran Wang). Input one or more assigned articles from guest(s) into ChatPDF and have it generate questions. Ask those questions during session.

Here are three example questions you may have about this PDF file:

- ▶ What are the six emergent patterns of interaction found in the classroom video recordings?
- ▶ How does hybrid instruction differ from the rural school's pedagogical tradition and classroom culture?
- ▶ What is the updated framework proposed by the author for understanding the complexities inherent in interactions within hybrid learning spheres?

Chat with any PDF

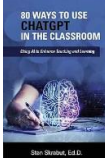

Upload your PDF

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August 15, 2023
1. Tone/Climate:
E. AI Generated Ice Breakers
25 applications in teaching and assessment
 Seb Dianati & Suman Laudari, Charles Darwin University
<https://www.timeshighereducation.com/campus/chatgpt-and-generative-ai-25-applications-teaching-and-assessment>

1. Tone/Climate: A. Develop Ice-Breaker or Team Building Exercises.

A. Act as if it is the first day of class and use proven and effective rapport-building exercises for students to create a sense of community.
B. Develop a series of questions for online students to engage in the class at the same time as I am delivering the class in a physical classroom.

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September 4, 2021
1. Tone/Climate: F. Ice Breakers in Jamboard
https://jamboard.google.com/d/1NAAPUg9nd2Zv_VLwjY05aHeln4kphQ-dbQ5BREdQgc/viewer?z=7


Write down something that epitomizes your personal motto or life theme?

No Schedule How many hours a day?	What's there's a goal? What's a goal?	Can things change in a day?	Connect	How many times a day?	Live everyday in the future and never give up!	No regrets	Love yourself
My personal motto is to keep it real and be honest.	"The biggest thing is not to give up on your dreams."	I just felt like I had to keep going to the end.	Life-long learning	Stay in the moment and enjoy it.	How is the world going to be?	Why not?	
In & Out	Put one item in front of the other and you will get to the bottom.	What's your biggest fear?	Do it now				

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September 8, 2023
2. Encouragement, Feedback:
A. Exam Preparation
<https://cybernews.com/academy/news/chatgpt-your-new-academic-mentor/>


1. The program **can review course material, create a tailored study schedule**, summarize and condense information, provide past exam questions, and even offer helpful tips that might make studying easier.
2. By providing the specific areas of your study, ChatGPT can help familiarize you with your chosen topic.
3. ChatGPT can explain concepts, **summarize key points**, generate practical questions, and help you review quizzes and assessments.



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August 31, 2023
2. Encouragement, Feedback:
B. Translation Assistance to Improve Writing and Conversation Skills
<https://openai.com/blog/teaching-with-ai>

Dr. Anthony Kaziboni, the Head of Research at the University of Johannesburg, **teaches students who mostly don't speak English outside of the classroom**. Kaziboni believes that command of English is a tremendous advantage in the academic world, and that misunderstandings of even small details of English grammar can hold back students from recognition and opportunity. **He encourages his students to use ChatGPT for translation assistance, to improve their English writing, and to practice conversation.**



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July 23, 2023
101 creative ideas to use AI in education,
2. Encouragement, Feedback:
C. Generating Feedback Poetry
 Chrisi Nerantzis, Sandra Abegglen, Marianna Karatsiori, & Antonio Martinez-Arboleda (Eds.). (2023). 101 creative ideas to use AI in education, A crowdsourced collection (2023 1.2) [Computer software]. Zenodo. <https://doi.org/10.5281/zenodo.8355454> (University of Leeds, Univ. of Calgary, and Univ. of Macedonia)

01 Generating feedback poetry

Author: Chrisi Nerantzis

Contact details: c.nerantzis@leeds.ac.uk

Institution/Organization: School of Education, University of Leeds

Role: Educator

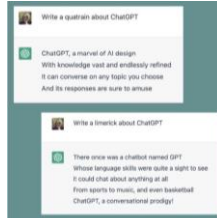
Context: Education, Professional Development

Tool(s) used: ChatGPT

My idea: Exploring the use of AI feedback poetry to engage students with the feedback they receive and give in new ways. Evidence suggests that students often don't engage with the feedback they receive. Feedback that

It is design (Carroll, 2017). Could it also reduce the amount and time educators spend on providing feedback?

Where the inspiration comes from: I have used alternative feedback



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July 23, 2023
101 creative ideas to use AI in education,
2. Encouragement, Feedback:
D. AI Generated Art-Based Feedback
 Zenodo. <https://doi.org/10.5281/zenodo.8355454>

97 AI to generate art-based feedback

Authors: Daniela Comanigh, Paula Corti, Bianca Sartoris
Contact details: daniela.comanigh@uniba.it, paula.corti@uniba.it, bianca.sartoris@uniba.it
Field: Education

Abstract: This paper presents a novel approach to generate art-based feedback on student work, using generative AI models to create personalized images and text that can be used to provide constructive feedback.

What we are aiming to achieve:
 • To generate art-based feedback on student work, using generative AI models to create personalized images and text that can be used to provide constructive feedback.
 • To explore the potential of generative AI models to create personalized images and text that can be used to provide constructive feedback.

Key findings:
 • The generated images and text were well-received by students and provided valuable feedback on their work.
 • The generated images and text were well-received by students and provided valuable feedback on their work.

For a high-level output that does not need any change: "A bird in a clear blue mountain sky with open wings"

High-level output with something that can be improved: "Dragon in a fantastical world, dark background"

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August 15, 2023
ChatGPT and generative AI: 25 applications
3. Curiosity, Intrinsic, Unknowns:
A. Provide YouTube Summaries
<https://www.timeshighereducation.com/campus/chatgpt-and-generative-ai-25-applications-teaching-and-assessment>

YouTube Summary with ChatGPT and Take Notes

YOUTUBE SUMMARY WITH CHATGPT

NOTEPT

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March 7, 2022
3. Curiosity, Intrinsic, Unknowns:
B. Brainstorming in Padlet
<https://padlet.com/basdogan2/vw119ct98stylvw>

Brainstorming in Padlet

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July 8, 2022
3. Curiosity, Intrinsic, Unknowns:
C. Multimedia News
Dinosaur discovered in Argentina suggests why many prehistoric predators had small arms
Wyatte Grantham-Philips, USA TODAY
<https://www.usatoday.com/story/news/world/2022/07/08/new-dinosaur-species-argentina-mezaxca-gigaa/10011585002/>

Dinosaur discovered in Argentina suggests why many prehistoric predators had small arms

This man and his dog spent seven years walking around the world

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June 7, 2023
4. Variety, Novelty, Fun, Fantasy:
A. Learn new words through images by making suggestions for things to add or change
<https://filmmag.com/discovering-the-potential-of-bing-chat-for-language-learning/>

Learn new words through images by making suggestions for things to add or change

Идеи в Москве

Идеи в Москве с красными автомобилями

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February 16, 2024
4. Variety, Novelty, Fun, Fantasy:
B. Text to Video Generation
OpenAI's Video Generator Sora
Tony Ho Tron, The Daily Beast
<https://www.thedailybeast.com/openais-video-generator-sora-is-stunning-and-utterly-terrifying>

OpenAI's Video Generator Sora

Tony Ho Tron, The Daily Beast

Prompt: A stylish woman walks down a Tokyo street filled with warm glowing neon and animated city signage. She wears a black leather jacket, a long red dress, and black boots, and carries a black purse. She walks confidently and casually. The street is damp and reflective, creating a mirror effect of the colorful lights. Many pedestrians walk about.

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February 16, 2024
OpenAI's Video Generator Sora Is Stunning and Utterly Terrifying
 Tony Ho Tron, The Daily Beast

<https://www.thedailybeast.com/openais-video-generator-sora-is-stunning-and-utterly-terrifying>



In this scene, an AI-generated mammoth and a dromedary camouflaged through a forest in the distance. (Left) An AI-generated scene of a mammoth and a dromedary in a snowy landscape. (Right) An AI-generated scene of a mammoth and a dromedary in a snowy landscape. (Left) An AI-generated scene of a mammoth and a dromedary in a snowy landscape. (Right) An AI-generated scene of a mammoth and a dromedary in a snowy landscape.

© OpenAI

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October 2, 2021
4. Variety, Novelty, Fun, Fantasy:
C. Reverse Brainstorming in Jamboard

<https://jamboard.google.com/d/1uF5b2OJdvcjFVIO5qhaTxuGCLQ3xP-mIGPvF7kdjKA4/viewer?f=5>



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August 14, 2023
30 ChatGPT Prompts For Language Learners
 Natalia Álvarez-Morillo, Carnegie Learning
4. Variety, Novelty, Fun, Fantasy:
D. AI Chatbots as language teaching assistants

<https://www.carnegielearning.com/blog/30-chatgpt-prompts-language-learning/>

1. How do I use the [verb tense] in [target language]?
2. I'm struggling with [grammar topic]. Can you provide some guidance?
3. How do I form questions in [target language]?
4. I need help with the correct word order in [target language].
5. Could you provide some examples of [grammar rule] in sentences?

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5. Autonomy, Choice:
A. Reflect on Podcasts and Webcasts

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August 21, 2023
5. Autonomy, Choice:
B. Brave People Option:
Scholar Essay

https://curtbonk.com/R511_online_syllabus_fall_2023.htm

- **Brave People Option:** Have ChatPDF, ChatGPT, or another generative AI tool or platform generate a 2,000-3,000 word **summary or essay of a scholar**. Next, write a 2-3 page single-spaced reflection paper, review, or critique of that scholar and incorporate a couple of quotes and aspects of what generative AI produced.

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August 21, 2023
5. Autonomy, Choice:
C. Brave People Option:
Book Review

https://curtbonk.com/R511_online_syllabus_fall_2023.htm

- **Brave People Option:** Put a PDF of the chosen book or books into ChatPDF, ChatGPT, or other generative AI tool or platform and have it do a **critique or a book review** on it. Next, write a reflection paper, review, or critique of what generative AI produced. A mini-glossary of personal definitions for 20-25 key terms and concepts found in this book might be included in an appendix at the end of the review.

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February 14, 2022
6. Relevance, Meaningfulness:
A. Questions for Guests in Jamboard
https://jamboard.google.com/d/1BW2GB3aV0q35hSh1dNaMwOo_2RUcNTUuo7mriSEja/viewer?l=2

Questions on OER (or the COL) for Sanjaya Mishra

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6. Relevance, Meaningfulness:
B. Expert, Researcher, or Live Author Interviews and Discussions

Students might read the biography or resume of the guest as well as available articles, books, and other resources about this person. Next, the guest might respond to questions from the class based on these resources.

April 4, 2022, R678 Guest Vanessa Dennen at FSU on Social Media
<https://www.youtube.com/watch?v=-OT2UYE4XRU>

September 17, 2021, Expert chat session with Richard Mayer (1:17:47): <https://youtu.be/pVo71RsbgkA>

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October 16, 2021
6. Relevance, Meaningfulness:
C. AMA (Ask Me Anything) in Jamboard

Bloomington Group #1
 "Ask Curt Anything" About Instructional Strategies

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February 28, 2022
6. Relevance, Meaningfulness:
D. Past, Present, and Future Panels
 R678 with Tom Reeves, Tom Reynolds, Veronica Acosta, and Okhwa Lee
<https://youtu.be/BUu9vFqjxw>

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November 27, 2021
6. Relevance, Meaningfulness:
E. Guest Chats Playlists, R511, Fall 2021
<https://youtube.com/playlist?list=PLHcReRoW2lxPeQcA1LKhnj1MP1pKwP>

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February 7, 2022
7. Interactive, Collaborative:
A. Team Article Summaries in Jamboard
<https://jamboard.google.com/d/1X0GkFNUCjBv7aYhd6N73N208cV60F>
 Week Article #6 Themes and Questions



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October 5, 2023

7. Interactive, Collaborative:
B. Book Summary Comparison

Kevin McCullen, an associate professor of computer science at the State University of New York at Plattsburgh
Machines of Loving Grace: The Quest for Common Ground Between Humans and Robots, by John Markoff
<https://www.chronicle.com/newsletter/teaching/2023-10-05>

- A freshman seminar about AI and robotics. **Students work in groups to outline and summarize the first three chapters.** Then he **showed them what ChatGPT had produced** in an outline.
- "Their version and ChatGPT's version seemed to be from two different books," McCullen wrote. "ChatGPT's version was essentially a 'laundry list' of events. Their version was narratives of what they found interesting. The students had focused on what the story was telling them, while ChatGPT focused on who did what in what year." The chatbot also introduced false information, such as wrong chapter names.
- Found it "soulless."





67

June 3, 2020

7. Interactive, Collaborative:
C. Collab Annotation and Group Reading (Perusal)

How to Do Collaborative Annotation and Group Reading in Perusal for Online or Blended Classrooms
EdTech with Adam: <https://www.youtube.com/watch?v=edu91ECCompA>
<https://perusal.com/>




68

August 31, 2023


7. Interactive, Collaborative:
D. Role Playing Challenging Conversations

<https://openai.com/blog/teaching-with-ai>

Dr. Helen Crompton, Professor of Instructional Technology at Old Dominion University, encourages her education graduate students to use ChatGPT as a stand-in for a particular persona—like a **debate partner who will point out weaknesses in their arguments**, a **recruiter who's interviewing them for a job**, or a **new boss who might deliver feedback in a specific way**.



Last month, educational psychologist Ronald Beghetto asked a group of graduate students and teaching professionals to discuss their work in an unusual way. As well as talking to each other, they conversed with a collection of **creativity-focused chatbots based on ChatGPT... at Arizona State University (ASU)**. **Beghetto prompts the bots to take on various personas to encourage creativity** — for example, by deliberately challenging someone's assumptions. One student discussed various dissertation topics with the chatbots



69

July 12, 2023

8. Engagement, Involvement:
A. Analyze AI Bias
Daniel Stanford's Substack

https://danielstanford.substack.com/p/incorporating-ai-in-teaching-practical?r=bejrv&utm_campaign=post&utm_medium=web

Example Activity: Analyze examples of bias in AI output.

- Example prompt: **Write a scene in a movie script where people in specific professions interact** (e.g., a doctor/nurse, pilot and flight attendant).
- Student reflection question: **What gender did AI assign to each role?** How did this reinforce or contradict common stereotypes?
- Additional example assignment: **Analyze how AI handles racial or gender representation** depending on prompt wording. See examples at bit.ly/bias-in-ai-images.

70

July 12, 2023

8. Engagement, Involvement:
A. Analyze AI Bias
Daniel Stanford's Substack

https://danielstanford.substack.com/p/incorporating-ai-in-teaching-practical?r=bejrv&utm_campaign=post&utm_medium=web

Examples of Bias in AI Image Generation

The document was created by Frank Rebeck. Content will be used as-is. © 2023. All rights reserved. https://www.danielstanford.substack.com/p/incorporating-ai-in-teaching-practical?r=bejrv&utm_campaign=post&utm_medium=web

The images below were generated in May 2023. They demonstrate how image generation tools can default to white/lighter skin tones and must be explicitly prompted to create images with "diverse racial representation" in order to include broader range of skin tones.

Midjourney Examples

The following images were generated by Dall-E3 and Midjourney.

Prompt: "Illustration of nurse, doctor, pilot and professor with diverse racial representation"



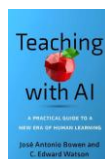
71

April 4, 2024

Teaching with AI: A Practical Guide to a New Era of Human Learning (2024)

8. Engagement, Involvement:
B. Blogging and Journaling
Jose Antonio Bowen and C. Edward Watson
<https://www.press.jhu.edu/books/title/53869/teaching-ai>

Record weekly course reflections in a blog or a journal. Then have students get feedback from both a peer and ChatGPT. Have students write one or more reflections on the difference on feedback offered. Or ChatGPT could create weekly blog posts to compare to.



72

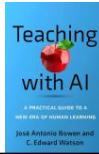
April 4, 2024

Teaching with AI: A Practical Guide to a New Era of Human Learning (2024)

8. Engagement, Involvement:
C. Human vs. AI

Jose Antonio Bowen and C. Edward Watson
<https://www.press.jhu.edu/books/title/53869/teaching-ai>

Ask students to write a paragraph, article abstract, short paper, poem, lecture summary of key points, etc. both with and without AI. Next share the artifact with a partner. Each person attempts to identify the human and AI elements. Finally, they discuss how either draft document could be improved.



73

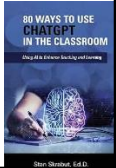
February 10, 2023

80 Ways to Use ChatGPT in the Classroom
Stan Skrabut, Ed.D.

8. Engagement, Involvement:
D. List Generator Discussions

<https://www.amazon.com/80-Ways-Use-ChatGPT-Classroom/dp/B0BYC8MXJY>

Have ChatGPT or any other generative AI tool generate a list (e.g., ice breakers, student paired interview questions, book or article recommendations, course guidelines or objectives, course objectives, etc.) and then engage students in small group and then whole class discussions.



74

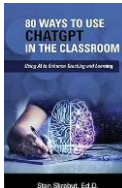
February 10, 2023

80 Ways to Use ChatGPT in the Classroom
Stan Skrabut, Ed.D.

8. Engagement, Involvement:
E. Language Conversation Partners

<https://www.amazon.com/80-Ways-Use-ChatGPT-Classroom/dp/B0BYC8MXJY>

Generative AI might also translate articles and blocks of text into the target language. Next have students work in teams to improve the drafts through rewriting and discussion.

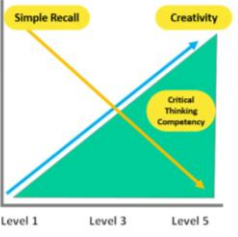
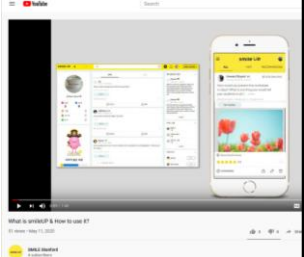


75

May 11, 2020

9. Tension, Challenge, Controversy, etc.:
A. What is smileUP & How to use it?
SMILE, Stanford

<https://www.youtube.com/watch?v=pblU8sSALWo>



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May 11, 2020

9. Tension, Challenge, Controversy, etc.:
A. What is smileUP & How to use it?
SMILE, Stanford

<https://ask.smile.stanford.edu/>
<https://www.youtube.com/watch?v=pblU8sSALWo>

Specifically, SMILE will be used to assess student's critical thinking and GPT 3.5 to provide constructive feedback to the questions. Accordingly, students will be given access to SMILE (<https://ask.smile.stanford.edu/>) to ask questions of their own. SMILE will rank the student's question from level 1 (i.e., the most basic) to level 5 (i.e., the most critical) based on its breadth and depth and its analytical nature using the Bloom Taxonomy criteria. 50 or more questions and write a reflection report on the breadth and depth of the response of ChatGPT.

77

11. Kim, P., Wang, W., & Bonk, C. J. (provisional acceptance). Generative AI as a coach to help students enhance proficiency in question formulation: Just ask SMILE. *Journal of Educational Computing Research*.

Following the launch of the generative AI Web application, Ask.SMILE, for evaluating the level of questions asked, 2,559 educators generated 25,973 question-feedback sets over a three-month period; an average of over 10 questions generated per participant.




Figure 1. Example of asking a Level 1 question (i.e., remembering) and system feedback in the Ask.SMILE system





Figure 2. Example of asking a Level 2 question (i.e., understanding) and system feedback in the Ask.SMILE system



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May 11, 2020

9. Tension, Challenge, Controversy, etc.:
A. What is smileUP & How to use it?
SMILE, Stanford

<https://www.youtube.com/watch?v=pblU8sSALWo>

79

Kim, P., Wang, W., & Bonk, C. J. (in press for 2025). Generative AI as a coach to help students enhance proficiency in question formulation. *Journal of Educational Computing Research*. <https://doi.org/10.1177/07356331251314222>

Following the launch of the generative AI Web application, Ask.SMILE, for evaluating the level of questions asked, 2,559 educators generated 25,973 question-feedback sets over a three-month period; an average of over 10 questions generated per participant.

Table 2: Question Level Statistics

	Value	Percent
Number of Observations (N)	25,973	100%
Level 1 Remembering Questions	7,073	27.2%
Level 2 Understanding Questions	4,401	16.9%
Level 3 Applying Questions	2,574	9.9%
Level 4 Analyzing Questions	3,832	14.9%
Level 5 Evaluating-Creating Questions	8,093	31.1%
Mean Level of Questions	3.056	
Standard Deviation (SD)	1.627	

80

Kim, P., Wang, W., & Bonk, C. J. (in press for 2025). Generative AI as a coach to help students enhance proficiency in question formulation. *Journal of Educational Computing Research*. <https://doi.org/10.1177/07356331251314222>

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Table 3: Cross-tabulation of Average Level and First Level of User Questions Generated

First Level	Average Question Level					Total
	1	2	3	4	5	
1	486	208	176	45	0	915
2	13	247	110	78	1	449
3	0	29	152	58	0	239
4	0	23	39	242	14	318
5	0	15	76	117	430	638
Total	499	522	553	540	445	2559

81

May 11, 2020

9. Tension, Challenge, Controversy, etc.:
B. What is smileUP & How to use it?
SMILE, Stanford

<https://www.youtube.com/watch?v=pblU8sSALWo>

SMILE is connected to ChatGPT to give feedback and guidance. Have student experiment to see who can ask Level 4 and Level questions. Professor Trang Phan fosters critical thinking by having her education students at Fresno State ask the same question and phrase differently every time and reflect on the authenticity, accuracy, trustworthiness, and the ethical and moral nature of the responses. And also record the level of question according to SMILE.

82

9. Tension, Challenge, Controversy, etc.:
C. Virtual Sharing Walls Competitions
e.g., Padlet (A collaboration and discussion board)
August 27, 2021, What is Education 3.0?

<https://padlet.com/basdogan2/ywl19ct98styo1bw>

83

October 5, 2023

10. Yields Products, Goals:
A. Support for Job Applications and Resumes

Grace Heneks, a lecturer in the English department at Texas A&M University <https://www.chronicle.com/newsletter/teaching/2023-10-05>

Students were asked to work with ChatGPT in a technical professional-writing course and a writing about literature course. In both courses, she says, students were underwhelmed by the product. In the technical writing course, students used ChatGPT to write job-application materials, such as cover letters and resumes. Most of them, she wrote, found that the chatbot actually created work because, even with multiple prompts, the writing did not have much personality and was repetitive. The same held true in her writing course when she used ChatGPT in class and also when students reviewed a ChatGPT-generated essay.

84

April 23, 2020
10. Yields Products, Goals:
B. Student Generated Timelines, Taxonomies, and Concept Maps (Sutori, xtimeline, Preceden, Timeline.js, TimeLineCurator, Time Mapper, etc.)
https://timegilder.com/1/5084348903a480987min_zoom=1&max_zoom=100
<https://time.graphics/line/356a1211435318430fa1741b5087552c>

85

September 3, 2017
10. Yields Products, Goals:
C. Mindmap Recaps of Online Discussions Mindmap of Week 2 of R511
<https://www.mindmeister.com/148176841/148176841?source=share&shareid=148176841>

86

Poll: Any light bulbs going off in your head so far?

- Yes definitely...many of them...pop...pop...pop!
- Yes, several times.
- Yes maybe!
- Not yet (but hopefully soon...)
- Nope. Darn it my brain is not working today.
- There's no hope with this idiot presenting.

87

Make Commitments: Stop and Share in Chat Window: Which principle(s) of TEC-VARIETY will you use?

Tone/Climate
Encouragement, Feedback
Curiosity

Variety
Autonomy
Relevance
Interactive
Engagement
Tension
Yields Products

88

The R2D2 Model: Read, Reflect, Display, Do...

89

Question: How can technology address diverse learner needs?

90

The R2D2 Model


1. Read (Auditory and Verbal Learners)
2. Reflect (Reflective Learners)
3. Display (Visual Learners)
4. Do (Tactile, Kinesthetic, Exploratory Learners)



91

1. Auditory or Verbal Learners

- Auditory and verbal learners prefer words, spoken or written explanations.



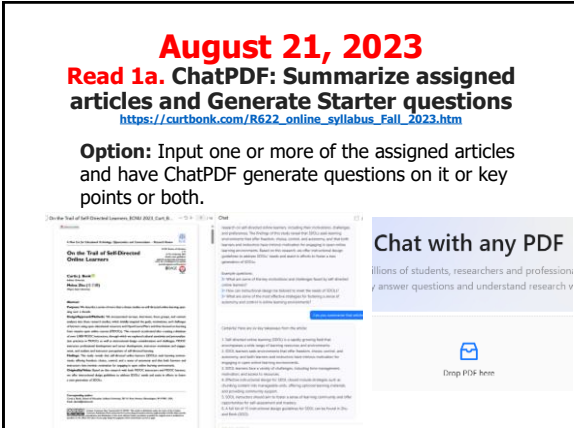
92

August 21, 2023

Read 1a. ChatPDF: Summarize assigned articles and Generate Starter questions

https://curtbonk.com/R622_online_syllabus_Fall_2023.htm

Option: Input one or more of the assigned articles and have ChatPDF generate questions on it or key points or both.



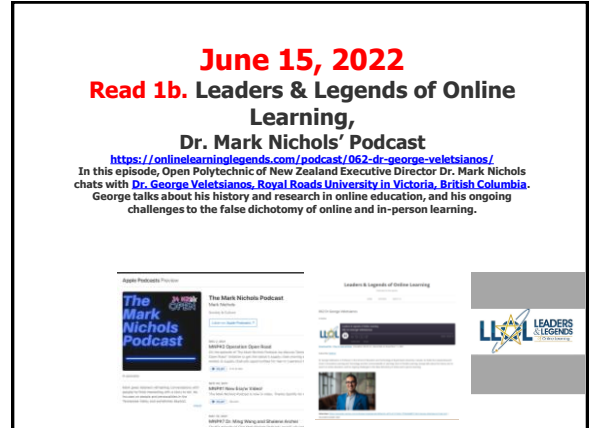
93

June 15, 2022

Read 1b. Leaders & Legends of Online Learning, Dr. Mark Nichols' Podcast

<https://onlinelearninglegends.com/podcast/062-dr-george-veletsianos/>

In this episode, Open Polytechnic of New Zealand Executive Director Dr. Mark Nichols chats with Dr. George Veletsianos, Royal Roads University in Victoria, British Columbia. George talks about his history and research in online education, and his ongoing challenges to the false dichotomy of online and in-person learning.



94


Silver Lining for Learning

Episode #59 | It's Time to be Inclusive and Include UDL

May 22 2:30 pm EDT

It's time to be Inclusive & include UDL

With guests: Elizabeth (Beth) Fisher, Claire Dunsmuir, Maria Lynn Douglas, Fran Alatorre



95

Pedagogical Uses of Podcasts

1. Replace some course readings.
2. Podcast reenactments.
3. Use of podcasts to back up different sides of debates or to start debates.
4. Remix episodes and explore themes and common issues.
5. Support asynchronous discussion.
6. Add multimedia component to student papers.
7. Interview the podcast hosts and guests.
8. Identify new discoveries and trends in the field.
9. Favorite podcast show competitions.
10. Supplement class lectures or presentations.

96

Pedagogical Benefits of Podcasts

(Palenque, 2016, Journal of Instructional Research)

1. Promotes active listening.
2. Expands vocabulary.
3. Support active, social, and creative aspects of learning.
4. Provides opportunities for reflection.
5. Aligns with self-paced and independent learning.
6. Helps chunk learning and connect to what you know.
7. Fosters audience awareness and social cognition
8. Potential for audio feedback to learners.
9. Provides alternative to reading.
10. Fosters planning skills.

97

January 20, 2016

Read 1c. Text to Audio

(e.g., Speechify; <https://www.hsalfrank.com/speechify>)

98

2. Reflective and Observational Learners

• Reflective and observational learners prefer to reflect, observe, view, and watch learning; they make careful judgments and view things from different perspectives

99

September 4, 2021

Reflect 2a. Venn Diagrams in Jamboard

<https://jamboard.google.com/d/1uf5b20JdvciFVI05qhaIxuGCLQ3xP-mIGPvF7kdJKa4/viewer?z=5>

100

Reflect 2b. Big Issue Reflections and What-If Reflections

(Big Questions Online (BQO))
(e.g., [Can a Living Creature Be as Big as a Galaxy?](https://www.bigquestionsonline.com/))

101

Reflect 2c. Online Role Play or Debate

(e.g., documentary production)

<ul style="list-style-type: none"> • Controller/Executive Director/CEO/Leader • Connector/Relator/Linker/Synthesizer • Decider/Judge/Settler • Devil's Advocate/Critic/Censor • Reflector/Thinker/Speculator/Observer/Watcher • Warrior/Debater/Arguer/Conqueror/Bloodletter • Idea Squelcher/Biased/Preconceiver • Slicker/Slough/Slag-Startier/Dude 	<ul style="list-style-type: none"> • Artist/Idea Person/Visionary/Muse • Planner/Predictor/Guesser/Flowbatter • Organizer/Starter/Founder/Initiator • Questioner/Ponderer/Protester • Adventurer/Discoverer/Explorer/Traveler • Mediator/Negotiator/Compromiser/Peacemaker • Watchdog/Evaluator/Messenger • Creative Energy/Inventor/Generator/Brainstormer 	<ul style="list-style-type: none"> • Optimiser/Open-minded/Idealist • Robotic/Information Dumper/Spock-like • Absent Minded/Stumpler/Dense/Amateur • Coach/Facilitator/Inspirator/Trainer • Guide/Mentor/Teacher/Scaffolder • Humanitarian/Do Gooder/Funder/Raiser • Funny/Humorous/Comic/Witty • Advisor/Responder/Helper/Tutor • Waddly/Wiseperson/Sage/Guru/Spiritual Leader
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Example 2: Scaffolding...in the form of structuring the online environment and engagement e.g. reflective roles, self-coding, timely-engagement of instructors or otherwise you have "serial monologues."

102

November 25, 2021
Reflect 2d. Interpreting Interactive Graphs and Infographics
 ARK Invest
<https://ark.invest.com/beliefs/portfolios/contrarian/robo-market-cap-associated-with-innovation/>

2020
\$14 Trillion

2030
\$210 Trillion

Compound Annual Rates of Growth
 21%
 15%
 29%
 42%

103

November 23, 2023
Reflect 2e. Translating Policy Document into Plain English (TextGenEd)
 Timothy Laquintano, Lafayette College
<https://wac.colostate.edu/repository/collections/textgened/professional-writing/translating-a-policy-document-into-plain-english/>

This assignment asks **undergraduate students to translate a complex policy document into plain English and then compare their output to the output of a large language model asked to do the same task.** Students critically compare the semantic choices and sacrifices they made during the translation with the meaning lost during the machine translation, which attunes them to the risks and benefits of LLM output. It can be adapted to most disciplines and course levels.

104

3. Visual Learners

• **Visual learners prefer diagrams, flowcharts, timelines, pictures, films, and demonstrations.**

105

July 23, 2023
101 creative ideas to use AI in education, Display 3a. Rewriting with AI Image Generators
 Chrsi Nerantzi, Sandra Abegglen, Marianna Karatstori, & Antonio Martinez-Arboleda (Eds.). (2023). 101 creative ideas to use AI in education, A crowdsourced collection (2023 1.2) [Computer software]. Zenodo. <https://doi.org/10.5281/zenodo.8355454> (University of Leeds, Univ. of Calgary, and Univ. of Macedonia)

34 Rewriting with AI Image Generators

Author: Christopher Sean Harris
 charris2@calstatela.edu

Role: Educator

Institution/Organization: California State University

Context: Students use AI image-generation tools such as DALL-E to create images based on their writing, particularly memos.

Tool(s) used: DALL-E 2

My idea: Rewriting with AI Image Generators

What I aim to achieve: Students must write effective & brief summaries of their writing to provide an AI image generator with pertinent instructions. Additionally, students must provide the AI tool with a command, a shared rubric, and context. The exercise helps students summarize in descriptive text as well as learn to be thoughtfully and intentionally collaborative with AI tools.

Where the inspiration comes from: Discussing their multimodal memos, students reviewed a list of images they could use. I suggested AI and digital art when they were in the project. From there, we discussed ways to refine the prompt to direct the AI to produce various headlines and text on a page paired with their DALL-E 2

106

September 4, 2021
Display 3b. PMI in Jamboard
https://jamboard.google.com/d/1K1jvX4ixA2RgE5OH58laB_cW-LsoEUzMODFj88eP00/viewer?z=4

107

June 7, 2023
Display 3c. Bing Chat for stories, plays, poems, images, etc.

Users can easily write a prompt to create an image directly in the chat. OpenAI's **DALL-E** (it can also be used at bing.com/create). Users can create as many images as they would like for free. <https://tesl-ej.org/pdf/ej107/int.pdf>

108

March 31, 2022
Display 3d. Short Educational Videos:
Anchored Instruction/Macrocontext
TEDE, BBC News, and New York Times
<https://www.ted.com/> and <https://www.youtube.com/c/BBCNews/featured>

109

November 21, 2022
TED Talks Education
<https://www.ted.com/about/programs-initiatives/ted-talks-education>

110

March 29, 2022
Display 3d. Guest Expert Chats
R511 Week 11 Questions and Answers With Dr. Thiagi
(1 hour, 15 minutes)
 Single Camera View: <https://youtu.be/40GhwJsaFAo>
 Multiple Camera View: <https://youtu.be/EssDmqUQ30g>

111

Ten Pedagogical Uses of Shared Online Videos

1. Pause and Reflect
2. Key Concept Reflections
3. Video Anchor or Starter
4. Video Capstone or Ending
5. Online Weekly Content Previews and Discussions

112

More Uses of Shared Online Videos

6. Rank or Evaluate Anchor Archives
7. Student Anchor Creator Competitions
8. Concept or Technology Demonstrations
9. Anchor Video Debates
10. Anchor Creator Interviews

113

Display 3e.
Collaborative Web and PDF Annotation Tools
Hypothes.is (Free): <https://web.hypothes.is/>
 Note Anywhere: <https://www.youtube.com/watch?v=qdA1sowd4Ho>
 Adds virtual sticky notes to webpages

114

April 30, 2020
Display 3f. Word Clouds:
Week 2 and 5 (13 and 14)
<https://www.wordclouds.com/>

115

July 23, 2023
101 creative ideas to use AI in education,
Display 3g. Rewriting with AI Image Generators
 Chrissi Nerantzi, Sandra Abegglen, Marianna Karatsiori, & Antonio Martínez-Arboleda (Eds.). (2023).
 101 creative ideas to use AI in education, A crowdsourced collection (2023 1.2) [Computer software].
 Zenodo. <https://doi.org/10.5281/zenodo.8355454>
 (University of Leeds, Univ. of Calgary, and Univ. of Macedonia)

116

February 15, 2024 [Soro](#)
AI Generated Videos Just Changed Forever
Video (12:01): <https://youtu.be/NXpdyAWLDas>

117

February 16, 2024
OpenAI's Video Generator Sora Is Stunning
and Utterly Terrifying
 Tony Ho Tron, The Daily Beast
<https://www.thedailybeast.com/openais-video-generator-sora-is-stunning-and-utterly-terrifying>

Prompt: Photorealistic closeup video of two pirate ships battling each other as they sail inside a cup of coffee.
 OpenAI

118

February 16, 2024
OpenAI's Video Generator Sora Is Stunning
and Utterly Terrifying
 Tony Ho Tron, The Daily Beast
<https://www.thedailybeast.com/openais-video-generator-sora-is-stunning-and-utterly-terrifying>

Prompt: Animated scene featuring a close-up of a short fluffy monster floating beside a melting red candle. The art style is 3D and realistic, with a focus on lighting and texture. The mood of the painting is one of wonder and curiosity, as the monster gazes at the flame with wide eyes and open mouth. Its pose and expression convey a sense of innocence and playfulness, as if it is exploring the world around it for the first time. The use of warm colors and dramatic lighting further enhances the cozy atmosphere of the image.
 OpenAI

119

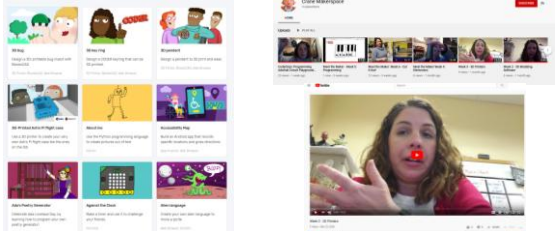
4. Tactile/Kinesthetic Learners

- Tactile/kinesthetic senses can be engaged in the learning process are role play, dramatization, cooperative games, simulations, creative movement and dance, multi-sensory activities, manipulatives and hands-on projects.

120

April 23, 2020
Do 4a. Demonstration Videos
Crane Makerspace, Tina Closser

https://www.youtube.com/channel/UCbeWfF49a7pZ0JMB19T8t5w?view_as=subscriber
<https://sites.google.com/view/cranetech/home>
<https://projects.raspberrypi.org/en/projects>



121

November 5, 2024
Do 4b. AI Video Generation (Synthesia)
AI in Education Tutorial (Claudio Pinto)
Final Projects R546 Fall of 2024

<https://share.synthesia.io/45b37421-90a3-4186-b855-8b8665763201> (Synthesia)
#1 AI video platform. Create professional looking videos in 140+ languages. Pick a template, choose between 230+ diverse avatars, and type your text.
 Synthesia is a **synthetic media** generation company that develops software used to create **AI** generated video content. It is based in **London, England**.



122

February 19, 2023
Do 4c. Generate images and have students draft stories

DALL·E: An "Intelligent" Illustrator for your Language Classroom
<https://iftmag.com/dall-e-2/>

- Ask **DALL-E** to **generate culturally-specific images** and then have students research and explain why the image does or does not fit the reality in the context of the target culture.
- Ask **DALL-E** to **generate images based on idioms or proverbs** as part of a lesson on them.
- Have **students give prompts** to **DALL-E** and then revise the prompts, analyzing why one prompt may have worked better than another or given a different result.

123

February 4, 2023
Do 4d. Create Class Glossaries
ChatGPT for language learning – All the prompts you need
Theodosios Karageorgakis, Educraft
<https://educraft.tech/chatgpt-in-the-language-learning/>

money for the fare. It helps avoid confusion and delays in the payment process.

4. "How many people are in your group?"
 This phrase is used by taxi drivers to ask how many people will be traveling together. It helps the driver choose the appropriate size of the taxi and ensure everyone fits comfortably.

5. "Please speak slowly."
 This phrase is used by taxi drivers to ask passengers to speak slowly and clearly. It helps the driver understand the passenger's instructions and provide better service.

Glossaries


We could also ask ChatGPT to generate a glossary for the online course. Let's build up on the previous prompt.

Now, I want you to create a glossary of the 10 most common phrases taxi drivers need. Use simple language (A1 level) to explain the various phrases.

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Poll: Which pedagogical model or framework do you prefer?


- a. TEC-VARIETY
- b. R2D2
- c. Neither
- d. Both
- e. I will try to create some unique combo of the two.



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Poll: How many ideas did you get from this talk now?

1. 0 if I am lucky.
2. Just 1.
3. 2, yes, 2...just 2!
4. Do I hear 3? 3!!!!
5. 4-5.
6. 5-10.
7. More than 10.



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**Chat Window Sharing:
Three Words from this Session...?**
e.g., "I am happy!" and...
"minions are happy!"



127

**We are entering a jumping
off point...**



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Remember...
"I cannot do this alone."
"I cannot do this alone."
"I cannot do this alone."
"I cannot do this alone."



I can't do this alone.

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Any Questions or Comments?

Slides at: [TrainingShare.com](https://www.trainingshare.com) (go to "Archived Talks")

Papers: [PublicationShare.com](https://www.publicationshare.com)

Free book: <http://tec-variety.com/>

Free Course: <https://colcommons.org/welcome/coursedetails/8>

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