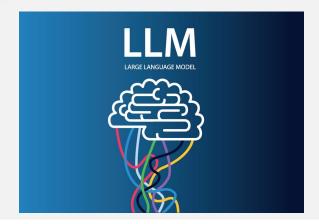




Session 2: Al and English Language Teaching

- Brief overview of Al/ChatGPT
- Prompt engineering
- Al as a pedagogical tool for language teaching
 - ChatGPT tasks
 - Diffit





menti.com 7937 8085

Using AI in Teaching: Three issues

1

Teaching Resource: ChatGPT as a resource for helping me create lessons and materials 2

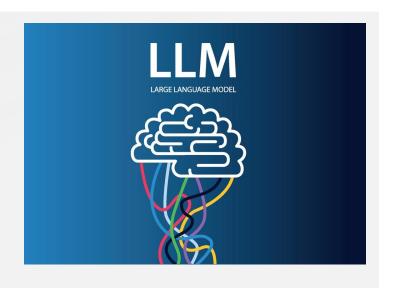
Pedagogical Tool: Use interactively with students to harness the power of AI to enrich teaching

3

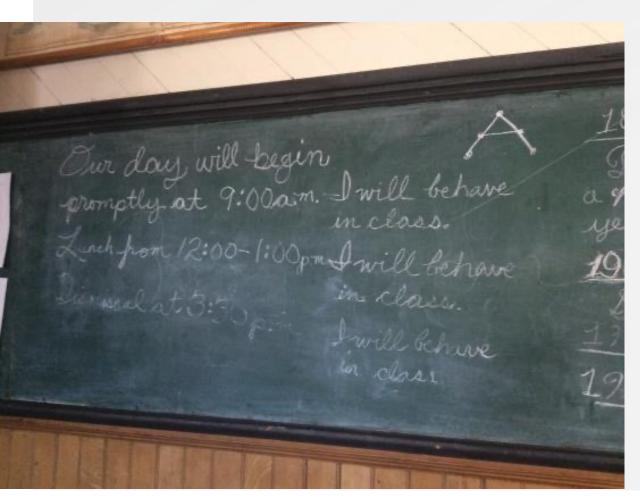
Policy: Clear guidelines for how students (and teachers) should use ChatGPT responsibly. and learning.

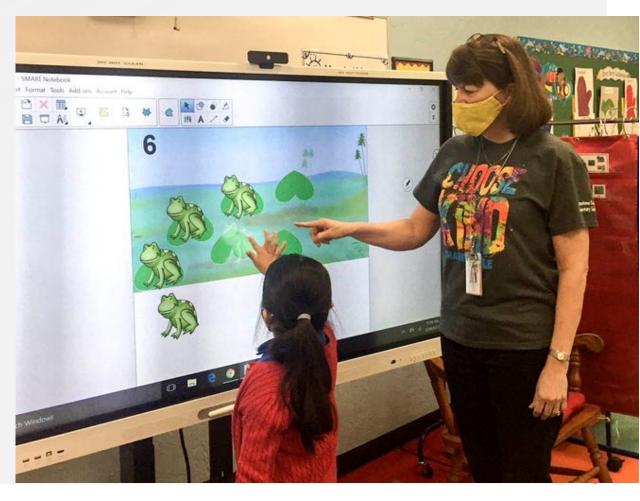
Al for English Language Educators

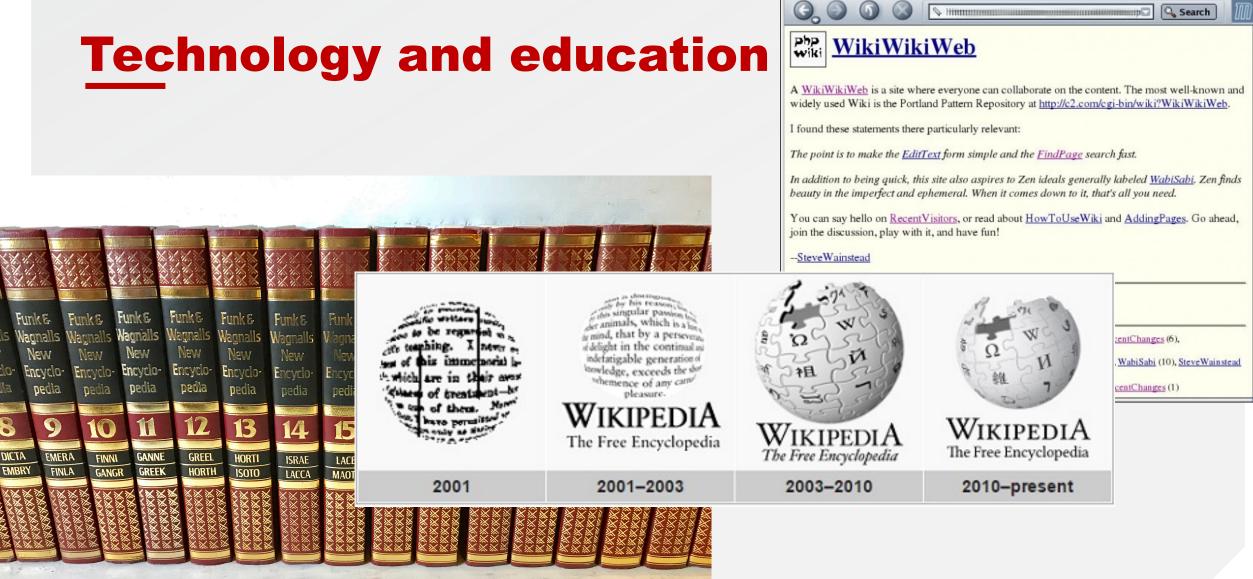
- Quick overview of Al/ChatGPT
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 - Diffit



Technology and education







WikiWikiWeb - Mozilla

File Edit View Go Bookmarks Tools Window Help

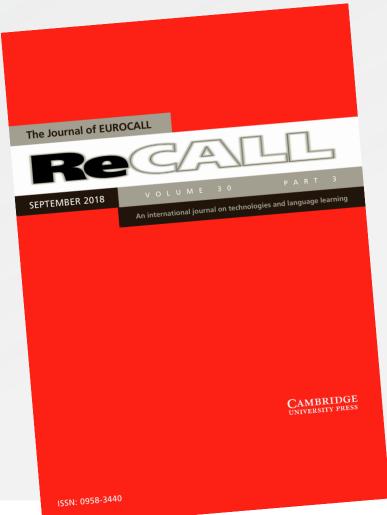




Paul Pimsleur, Professor of Foreign Languages at Ohio State University, pioneered the development of language learning labs in the 1950-60s, and established one of the first graduate programs in the U.S. in foreign language teaching and research at OSU.

Al and Language Teaching | Sayer

Technology and language learning





Technology and language learning



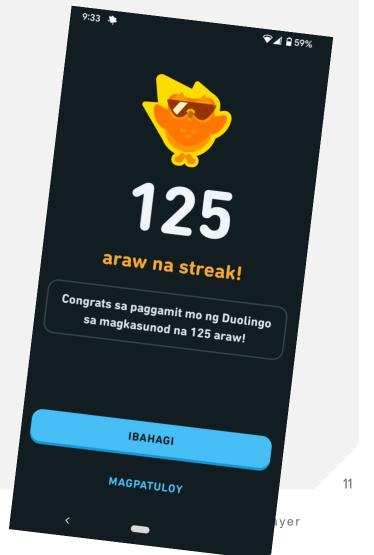
An L2 English learning project in Second Life hosted by the British Council in 2007



How does social media change the possibilities for language learners?

Technology and language learning





Quick overview: How ChatGPT Works

- ChatGPT is a type of advanced "chatbot"
- Chatbots are a type of "Generative Al"
- An Al can "think": it can generate novel content based on a limited input
- It is powered by a "brain" called a large language model
- Als now exist to create text, images, music, voices, videos









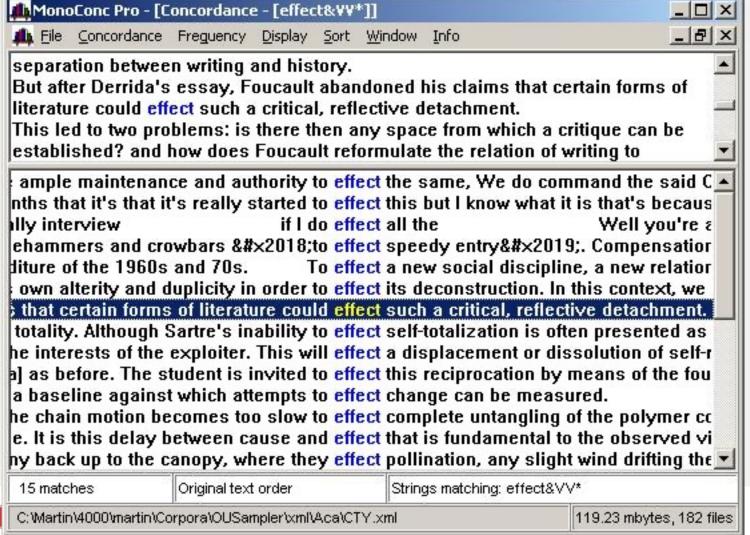








Corpus linguistics





Generative Pre-training Transformer

- Next-word predictor algorithm
- Predicts % likelihood of given word based on its "large language model" = giant dataset of billions of co-occurrences of words
 - Mary had a little _____
 - 87% Mary had a little lamb.
 - 12% Mary had a little lamb, its fleece was white as snow.
 - 1% Mary had a little piece of lettuce stuck in her teeth.

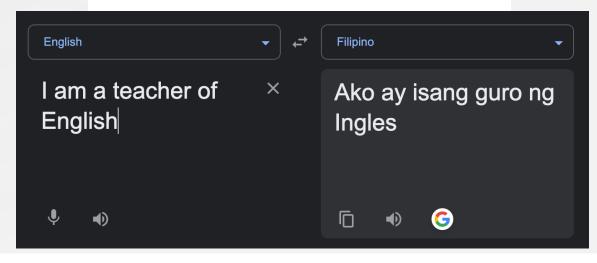


Large language model as Al brain



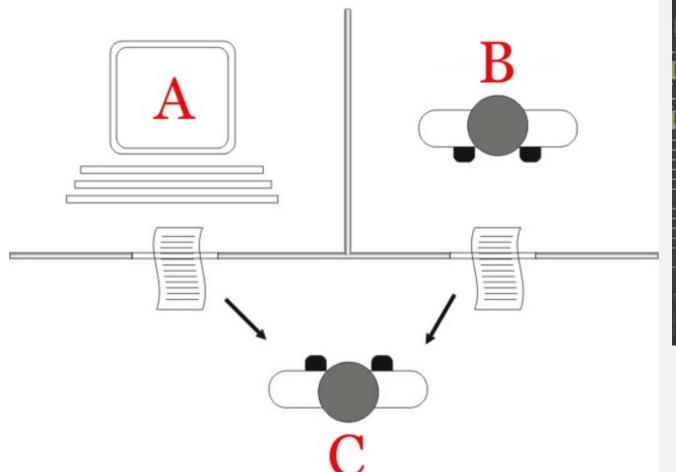
Does Al "understand" language?

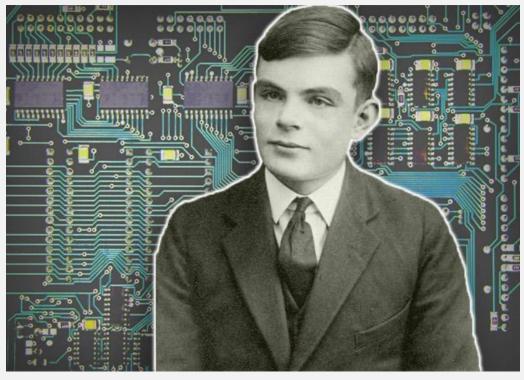






The Turing Test





Alan Turing (1912-1954)
Inventor of the idea of artificial intelligence



The "he picked it up and took it" problem

Bill saw John's wallet on the table.

He picked it up and took it.

Which is the correct interpretation?

- a. John took the table.
- b. John took the wallet.
- c. Bill took the table.
- d. Bill took the wallet.

Implied meaning:

- a. Bill stole the wallet.
- b. Bill is a thief.



Can ChatGPT understand meaning in context?



Use the following sentences to create a very short story about John and Bill: Bill saw John's wallet on the table. He picked it up and took it.

Other AI tools



Text-to-image generators





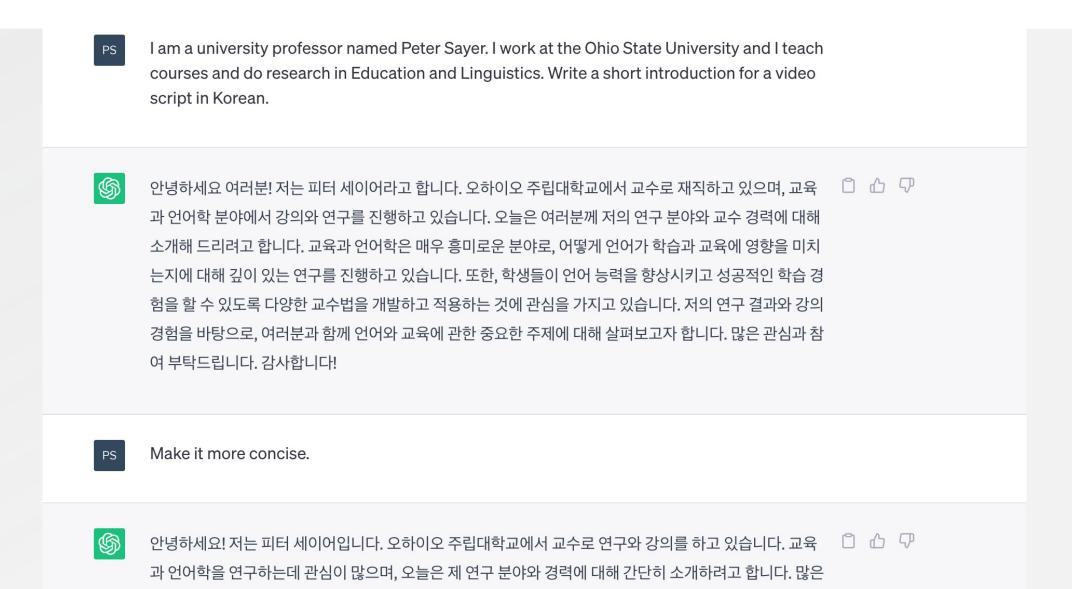
Dezgo: "a teacher and a group of students in a classroom in a postapocalyptic classroom"

The Beatles - Bad Boy (deepfake)

YouTube 🔼

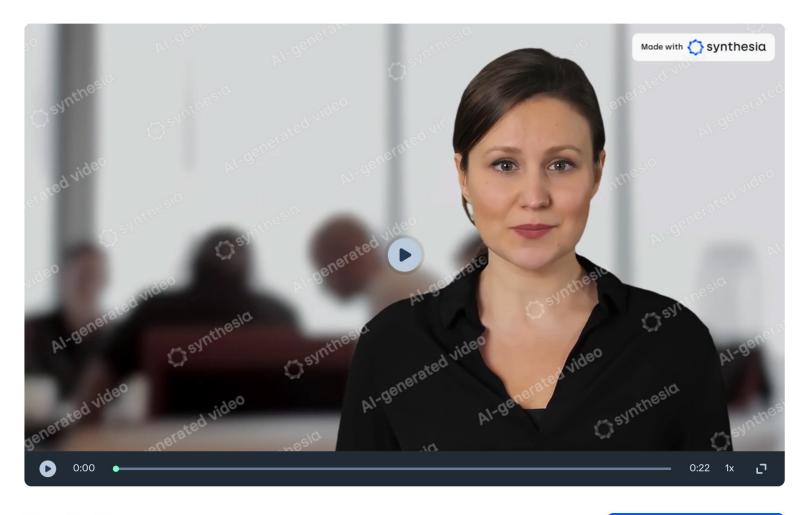
▶ YouTube · Carter's Beatle's Remasters · Jan 30, 2022







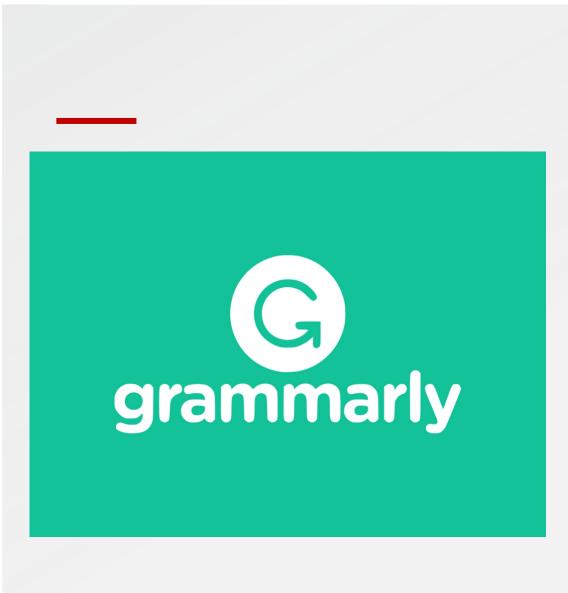
참여 부탁드립니다! 감사합니다.

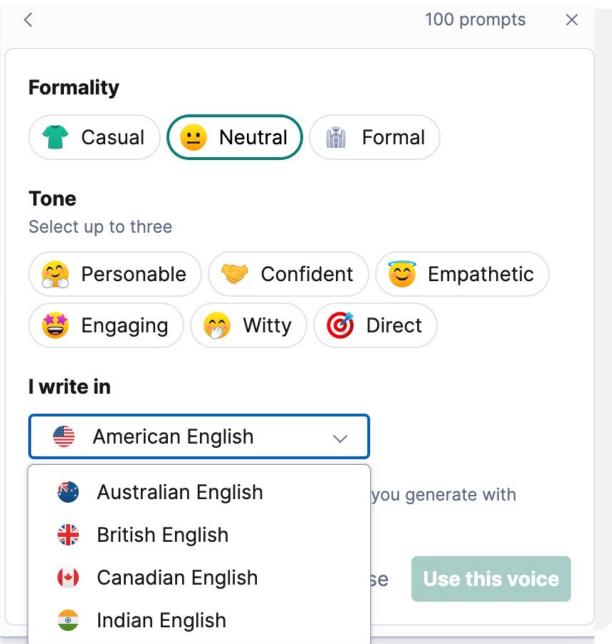


Your Al video

Hi Peter - check out your Al video.

Create Synthesia account





25

What ChatGPT does well and not well





- Summarize and synthesize ideas
- Present something in voice X
- Take the point of view of Expert X

- Math
- Source-based writing

ChatGPT writes pretty good term papers but either doesn't use citations or just makes them up.



Prompt Engineering

- Prompt Engineering: **Giving ChatGPT good** input (prompt) in order to generate high-quality output
- Prompt engineering techniques are "patterns"



You are a physical therapist. I hurt my shoulder playing pickleball and have a condition called "frozen shoulder." Ask me questions one at a time until you have a PT plan for me that I can do at home.



I'm sorry to hear about your shoulder injury and the frozen shoulder condition. To create a personalized home physical therapy plan, I'll need some information from you. Let's start with the basics:





1. Can you describe the level of pain you're experiencing in your shoulder on a scale of 1 to 10, with 1 being minimal pain and 10 being severe pain?

Please provide your pain level, and we can proceed from there.



It's about a 3, but if I do a sudden jerking or lunging movement, I get a sharp jolt of pain from my shoulder to my elbow that is a 9



Thank you for sharing that information. It's important to avoid sudden jerking or lunging movements that cause such severe pain. Now, let's work on a home physical therapy plan to help improve your frozen shoulder.



1. Can you tell me how long you've had this condition, and have you received any medical advice or treatment for it before?

Understanding your history will help in tailoring the plan effectively.



- Act as Persona X
- Perform Task Y

Important: Use
 [+New chat] box in
 upper left to create
 a new task



Write a review of the book "Children of Blood and Bone" by Tomi Adeyemi



"Children of Blood and Bone" by Tomi Adeyemi is an enthralling and powerful fantasy novel that captivates readers from beginning to end. Set in a beautifully crafted West African-inspired world, the story follows Zélie, a young girl with a fiery spirit, as she embarks on a quest to restore magic to her kingdom.

公 5

Adeyemi's writing is vivid and immersive, effortlessly transporting readers into a world filled with rich cultural detail and breathtaking magic. The depth of the world-building is truly impressive, and the way Adeyemi weaves in themes of identity, oppression, and the struggle for justice adds an important layer of depth to the story.

The characters in "Children of Blood and Bone" are compelling and multi-dimensional. Zélie, in particular, is a fierce and relatable

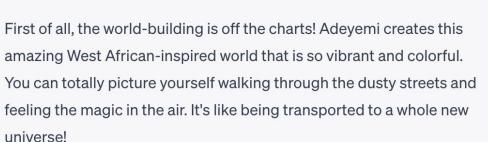




Act as a 7th grader. Write a review of the book "Children of Blood and Bone" by Tomi Adeyemi.



OMG, you guys, "Children of Blood and Bone" by Tomi Adeyemi is like the most epic fantasy book EVER! I mean, seriously, it's got everything you could want - magic, adventure, and a super cool heroine.



And let me tell you about the characters! Zélie is the main character, and she's fierce and strong. She's got this amazing connection to magic and is on a mission to bring it back to her people. I was rooting for her the whole way, and she never disappoints. Plus, there's this swoon-worthy romance going on, and I couldn't help but ship it so hard!



Pattern refinement:

- Act as a 7th grader.
- Act as a smart, serious 7th grader.
- Act as a serious 7th grader.
- Act as a 7th grader ... using straight-forward language.





Act as a 7th grader. Write a review of the book "Children of Blood and Bone" by Tomi Adeyemi using straight-forward language.



"Children of Blood and Bone" by Tomi Adeyemi is an awesome fantasy book. It's about a girl named Zélie who has to bring back magic to her kingdom. The world in the book is really cool, with a lot of Africaninspired stuff that makes it different from other fantasy stories.

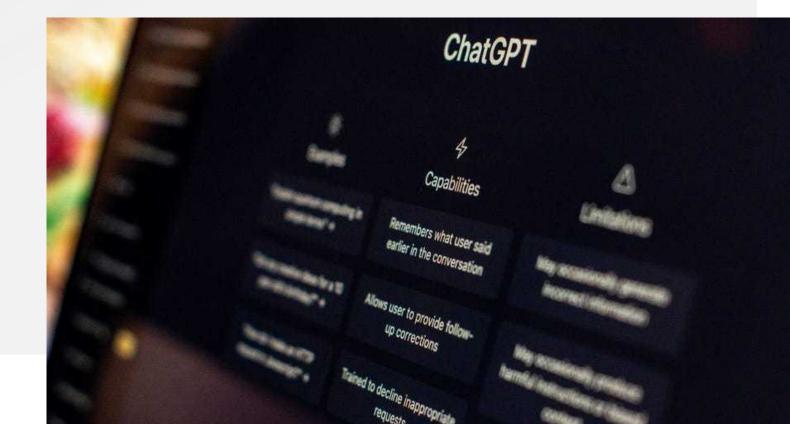
The characters are interesting, especially Zélie. She's brave and strong, and you can't help but root for her. There's also some romance in the book, which adds an extra layer of excitement.

The story is packed with action and surprises. There are intense battles and moments where you just can't put the book down.

Sometimes you can kind of predict what's going to happen, but there are also some twists that catch you off guard.



Can ChatGPT speak Taglish?





- Act as Persona X
- Perform Task Y

You are a non-native speaker of English with low intermediate proficiency in English.

Write an email to your boss explaining why you deserve a raise.

Include linguistic features, problems, and errors that a low intermediate level non-native speaker of English would make.













Dear [Boss's Name],

I hope this email finds you in good health and high spirits. I am writing to you today to humbly request a salary increase. I believe that I have been working diligently and have made significant contributions to the company over the past year.

Firstly, I have been working hardly on improving my skills and abilities since I joined the company. I have attended various training sessions and workshops to enhance my knowledge in my field of expertise. Moreover, I always take on additional responsibilities and projects whenever they are assigned to me. I have also taken the initiative to learn new software programs and tools that are essential for our work. All of these efforts have resulted in an increased efficiency and productivity in my work.



Furthermore, I have been receiving positive feedback from both



Act as an English as a second language teacher. Give critical feedback to the previous non-native speaker's email about ways to improve their English.



Subject: Feedback on Your Salary Increase Request







Dear [Employee's Name],

I hope this email finds you well. I have reviewed your email requesting a salary increase, and I appreciate your efforts to communicate your accomplishments. However, I would like to offer some feedback to help you improve your English skills and make your message more effective.

- 1. Greeting and Opening:
 - It would be more appropriate to use "I hope this email finds you well" instead of "I hope this email finds you in good health and high spirits."
 - Instead of "I am writing to you today to humbly request," you can simply say "I am writing to request."
- 2. Language and Word Choice:
 - Instead of "working hardly," you can use "working hard" to indicate your strong efforts.
 - Instead of "enhance my knowledge in my field of expertise," you



Act as an ESL teacher...

- Greeting and Opening
- Language and Word Choice
- Grammar and Sentence Structure
- Clarity and Conciseness
- Politeness and Closing



Audience Persona Pattern



Explain translanguaging to a linguist.



Translanguaging is a theoretical and pedagogical concept that has gained prominence in the field of sociolinguistics and language education. It challenges traditional notions of language boundaries and promotes a more fluid and dynamic understanding of language use.





In its essence, translanguaging recognizes that multilingual individuals and communities do not strictly separate languages but instead draw on their entire linguistic repertoire to communicate and make meaning. It goes beyond the traditional view of languages as discrete and isolated systems and embraces the idea that language is a social practice that is intertwined with culture, identity, and communication.

Translanguaging acknowledges that individuals are not limited to using a single language at a time but rather employ a continuum of linguistic resources, which may include words, phrases, grammatical structures, and even non-verbal elements, to express themselves. It emphasizes the idea that language is a flexible and creative tool that can be used



37

Audience Persona Pattern



Explain translanguaging to a layperson



Translanguaging is an idea that challenges the traditional view of languages as separate and \Box \Box distinct entities. Instead, it recognizes that people who speak more than one language often mix and blend their languages together in their everyday communication.



Imagine you have a friend who speaks both English and Spanish. When they talk, they may use words and phrases from both languages, switching back and forth depending on what feels most natural or appropriate at the moment. They might even use a combination of both languages in a single sentence. This mixing and blending of languages is what we call translanguaging.

Translanguaging is not a mistake or a sign of confusion; it is a natural and creative way of using language. It allows people to fully express themselves and connect with others, drawing on the different languages they know. It's like having a toolbox of languages and using the right tool for the job.



Translanguaging is particularly common in bilingual or multilingual communities, where

Audience Persona Pattern



Explain translanguaging. Assume I am a third grader who loves Pokeman.



Hey there, Pokeman fan! Let's talk about translanguaging in a way that relates to your favorite Pokémon world.





Translanguaging is like having a special power that lets you use different languages together, just like different Pokémon powers! You know how Pokémon have different moves that they can use in battles, right? Well, think of languages as different moves, and translanguaging lets you use those moves together to communicate.

Imagine you're talking to a friend who speaks a different language, let's say Spanish. You might know some words in Spanish and some in English. With translanguaging, you can mix those words together and have a fun conversation using both languages. It's like having a Pokémon that can use a combination of fire and water moves at the same time!

Just like in the Pokémon world, where trainers and their Pokémon work together to win battles, translanguaging allows people who speak different languages to work together and understand each other better. It's like having a powerful team of Pokémon that can



Flipped Interaction Pattern

- I am teacher. I have an immigrant student who is struggling with English. Ask me questions one at a time until you can suggest a tailored plan to help my student learn English.
- Ask me the first question.



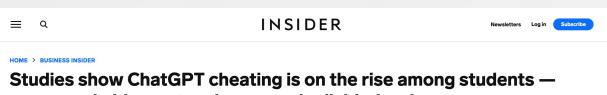
Flipped Interaction Pattern

- I would like you to ask me questions to achieve X
- You should ask questions until condition Y is met or to achieve this goal (alternatively, forever)
- (Optional) ask me the questions one at a time, two at a time, ask me the first question, etc.



What to do about student use of ChatGPT

 \square (f) (\square) (r)



young and old — as teachers remain divided on bans

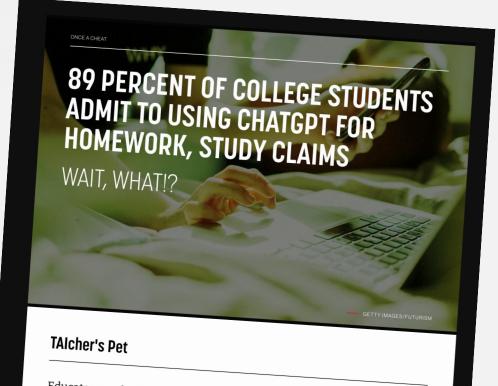
Aaron McDade Feb 8, 2023, 5:18 PM EST



Modern series

BUSINESS & PRODUCTIVITY

- Getty
- Over one in four teachers in a recent Study.com survey say they have caught students cheating by using ChatGPT.
- Some educators say it can be easy to detect Al-written work, but they understand the concern many others have.
- Others also believe it can be used to help students learn, and could make teachers' jobs easier.



Educators are battling a new reality: easily accessible AI that allows students to take immense shortcuts in their education — and as it turns out, many appear to already be cheating with abandon.

Online course provider Study.com <u>asked 1,000 students</u> over the age of 18 about the use of ChatGPT, OpenAI's blockbuster chatbot, in the classroom.

The responses were surprising. A full 89 percent said they'd used it on homework. Some 48 percent confessed they'd already made use of it to complete an at-home test or quiz. Over 50 percent said they used ChatGPT to write an essay, while 22 percent admitted to having sales to the ChatGPT for a page.

Can we detect Al-generated texts?



nour

noun: plagiarism; plural noun: plagiarisms

the practice of taking someone else's work or ideas and passing them off as one's own.

"there were accusations of plagiarism"

Similar: copying infringement of copyright piracy theft stealing poaching

Origin



early 17th century: from Latin *plagiarius* 'kidnapper' (from *plagium* 'a kidnapping', from Greek *plagion*) + <u>-</u> ism.



GPTZero



The World's #1 Al Detector with over 1 Million Users







REPORT A CONCERN

POLICY PROCESS SEARCH POLICIES

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The Ethics of Colleg

April 17, 2023

By Sierra President, Spring 2023 Office of

As AI technology continues to advance, looking for ways to incorporate it into t that has gained attention in recent yea developed by OpenAI that can generat user input. While ChatGPT has potenti raises important ethical consideration

Great opening, right? Well, how would instead it is a product of ChatGPT's h you, then you may be a part of the es since its release in November 2022.¹

Al is changing the way that the world technology for almost every aspect c assignments, and writing papers. Wi information, the ethical dilemmas of wonder if we should even be using

What are the ethical co

When users log into the ChatGPT si importantly outlines the limitation: incorrect information" and "may or parent company for ChatGPT, also may reinforce biases over time, ar

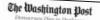
Knowing how unreliable this can I know how to feel about its usage.

ConnectCarolina UNC Search Can we use AI to detect AI?

Educators should not fear though, because Al detection tools are available. Al detectors were created to decide if text was AI-generated or human-generated. The AI detectors use a combination of data that compares human text to AI text and notices any patterns that can determine the text's origin. However, anyone using these detection tools should be cautious because the tools' levels of accuracy fluctuate depending on which Al detector is used and the length of text the tool is asked to evaluate. I decided to put these online AI detectors to the test by inputting my introductory paragraph, which was completely written by ChatGPT, in three different websites to

- GPTZero, claims to be the world's #1 Al detector, but determined that my input was "likely to be written entirely by a human," which we know to be untrue. The site does say that if educators plan to use GPTZero's conclusions, the educators should include GPTZero's information as only part of their assessment and should maintain a holistic view of each case.
- Content at Scale provides a human content score percentage. This site determined that there was a combination of Al and human generated information. More specifically, this detector gave the paragraph a 72 percent human content score, specifying that the first sentence was robotic and possibly artificially generated. This detector did not appear to identify the other sentences to be anything other than human-
- Writefull is used to determine the presence of GPT-3, GPT-4 or ChatGPT in a text. This site concluded that there was only a 30 percent chance that the sample paragraph came from one of these Al platforms.

It is important to note that the length of sample text impacts the accuracy of the results. For example, OpenAl's Al Text Classifier was not able to scan the sample paragraph because it did not reach a character minimum. OpenAI has publicly stated that this detector is only 26 percent accurate even when text does meet the minimum number of characters required. 11



Tech Help Desk Artificial Intelligence Internet Culture Space Tech Policy

A professor accused his class of using ChatGPT, putting diplomas in jeopardy

Al-generated writing is almost impossible to detect and tensions erupting at a Texas university expose the difficulties



By Pranshu Verma

Updated May 18, 2023 at 2:19 p.m. EDT | Published May 18, 2023 at 6:00 a.m. EDT





Students at Texas A&M University at Commerce were in celebration mode this past weekend, as parents $\underline{\text{filed into}}$ the university's Field House to watch students donned in cap and gown walk the graduation

Tech is not your friend. We are. Sign up for The Tech Friend newsletter.

But for pupils in Jared Mumm's animal science class, the fun was cut short when they received a heated email Monday afternoon saying that students were in danger of failing the class for using ChatGPT to cheat.

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Smoking weed after work? A growing number of employers don't mind.

2 Analysis | Printer ink is a scam. Here's how to spend



3 FTC investigates OpenAl over data leak and ChatGPT's inaccuracy



Threads follows Twitter in limiting number of posts that users can see



5 Al learned from their work. Now they want compensation.



Dilemma: There is currently no way to know with certainty what text has been generated by your student and what is generated by Al.

Rethinking pedagogy and teacher education with AI







Using Al in Teaching: Three issues

1

Teaching Resource: ChatGPT as a resource for helping me create lessons and materials 2

Pedagogical Tool: Use interactively with students to harness the power of AI to enrich teaching

3

Policy: Clear guidelines for how students (and teachers) should use ChatGPT responsibly. and learning.

Default (GPT-3.5)



You are president John F. Kennedy. It is October 1962, during the height of the Cuban Missile Crisis. Please answer the following questions.

• Preview Mode: Log in to Diffit to access resources

← Start new

| 2nd Grade | ≎ Er | inglish 🗘 | Export V | Share v |
|-----------|------|-----------|----------|---------|
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Causes of the Civil War

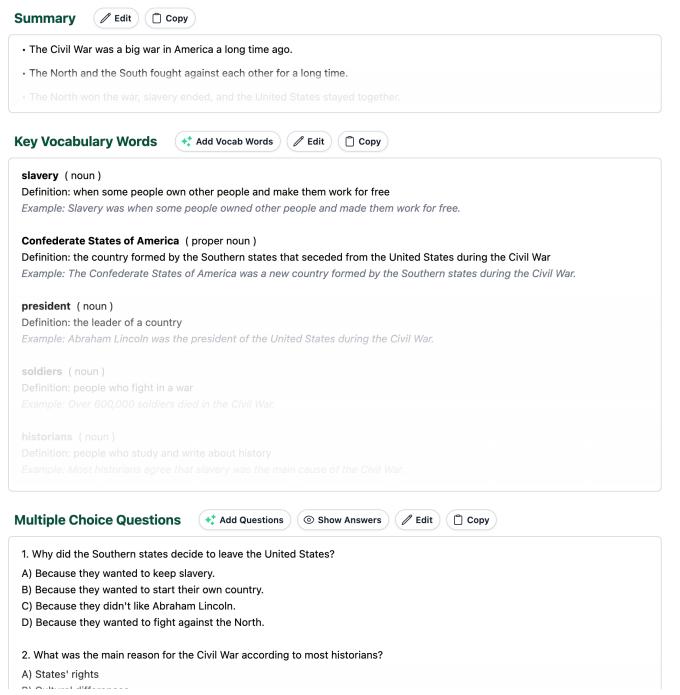
Adapted Reading Passage



The Civil War was a big war in America a long time ago. People had different reasons for why they fought in the war. Some people say that the main reason was slavery. Slavery was when some people owned other people and made them work for free. The Southern states wanted to keep slavery, but the Northern states wanted to get rid of it. They argued about it a lot and couldn't agree. This made the Southern states decide to leave the United States and start their own country called the Confederate States of America. The president at the time, Abraham Lincoln, didn't want the Southern states to leave, so he tried to stop them. This made the war start.

The war was very bad and a lot of people died. Over 600,000 soldiers died in the war. The North and the South fought against each other for a long time. The North wanted to keep the United States together, but the South wanted to be their own country. They fought in many battles all across the country. The North eventually won the war and the United States stayed together. Slavery was also ended after the war, which was a good thing because it was not fair to own people. The Civil War was a very important event in American history because it decided what kind of country the United States would be.





Ethical Concerns of Using AI in Education

- 1. Al may dilute student critical thinking and learning
- 2. Al is potentially dangerous for minors
- 3. Al apps require 'click-though agreements' that takes user data



Summary of Main Points

- ChatGPT and other generative Al apps can be powerful tools for language teachers
- Basic prompt engineering skills will help you generate high quality activities, the only limit is your own creativity!
- ChatGPT can be an excellent tool for students to use for language learning activities such as role playing, but...
- There are some serious ethical concerns and teachers should ensure the technology is being used reponsibly







