

ChatGPT Handout

This document intends to serve as a resource for ChatGPT's developing role in education.

WHAT IS CHATGPT?

ChatGPT (Chat Generative Pre-Trained Transformer) is a chatbot that uses Artificial Intelligence (AI). It was developed by OpenAI using the vast pool of texts and data accumulated from the internet in 2021 and prior. It was trained to mimic human writing to produce informative dialogue through its conversations with people.

Instructors might receive remarkable submissions or written work from students that are plagiarized from the program. ChatGPT can produce content that might be worth high grades in the class.

It is “free” to use and easily accessible. It only requires the user to create an account with the OpenAI site.

WHY IS IT USEFUL?

ChatGPT's utility makes up an extensive list...

- It can generate human-like responses to inquiries from people.
- It can provide data and info on an almost seemingly endless number of subjects.
- It can write poems, essays, songs, short stories, and various other literature.
- It can create prompts for essays and other forms of writing.
- It can create and write data scripts or code.
- It can provide research on numerous topics.
- It can serve as a language translation program.

LIMITATIONS?

ChatGPT is far from flawless. Despite its impressive capabilities, it still falls short in many areas...

- It cannot provide "non-text based responses."
- It cannot provide information on current or future data (post 2021).
- It is highly sensitive to question phrasing.
- It cannot provide much, if any, data for questions referencing in-class material.
- It has difficulty discerning between the truth and misinformation or fantasy.
- It has trouble playing chess.



Sure, here are three limitations of ChatGPT when it comes to writing:



1. ChatGPT may not always understand the context or purpose of a piece of writing. It may generate responses that are technically correct but not relevant or appropriate to the specific situation or task.
2. ChatGPT may struggle with tone and style, particularly in creative or expressive writing. While it can generate text that is grammatically correct and coherent, it may lack the nuance, voice, or emotional resonance that is often required in effective writing.
3. ChatGPT may not be able to incorporate outside research or sources into its writing in a meaningful way. While it can provide information and suggestions based on existing data and patterns, it may not be able to incorporate specific research or arguments from outside sources in a way that is convincing or coherent.

^Here are some of ChatGPT's limits, according to ChatGPT.

KEY FINDINGS

- ChatGPT is exceptionally accurate. However, it can often produce subtle or glaring inaccuracies in its responses.
- ChatGPT belongs to the same family as GPT-2, 3, and 4. The chatbot often utilizes GPT-3, a language model, to create text.
- There are sites and programs available to help detect AI incorporation in writing and submissions.
 - [GPTZero](#) is the most popular one at the moment. It has a reported 80-90% accuracy rate.
 - One prevailing issue is that submissions can be plagiarized from ChatGPT yet avoid detection by paraphrasing or rewriting ChatGPT generated responses.
- ChatGPT is very formulaic, and though it is designed to mimic human writing, it is still impersonal and blatantly objective.
- Various school districts within the US have banned any usage of ChatGPT from their schools' curriculum. However, there have been notable objections to this practice as some instructors argue that ChatGPT is a potent supplementary learning tool.

CLASSROOM APPLICATIONS:

Instructors...

- Should update their syllabi and academic integrity policies to include expectations about ChatGPT.
- Can filter or check more work through TurnItIn which is further developing its AI detection and plagiarism tools.
- Could consider using the chatbot as a resource before outright banning the whole program.
- May use ChatGPT to create lesson plans, learning objectives, or formal emails, etc.
- Could create projects that involve comparing human-written work to A.I. generated texts in order to increase digital literacy in the classroom.
- May test essay prompts on ChatGPT to test the complexity and idiosyncrasy of the prompts.
- Can request ChatGPT to generate possible activities for the class to do!

Students...

- Can use ChatGPT to explain more complex concepts in simpler ways.
- May use ChatGPT as a language translation assistance program or for coding support.
- Could use ChatGPT to organize and streamline their notes.
- Can use ChatGPT to create study activities and flashcards.
- May use the program to test their own composition and writing skills by comparing their work to something the chatbot produces.
- Could use the app to check for grammatical errors in the student's own work.
- Should use ChatGPT to become more familiar with A.I. tools as they grow to be more and more relevant.
- Should not solely rely on ChatGPT to replace independent research, work, and instruction.

RESOURCES:

<u>ChatGPT</u>	The chatbot program created by OpenAI.
<u>InstructGPT</u>	This OpenAI program allows users to further modify and train GPT.
<u>GPTZero</u>	An AI detection software and site.
<u>ChatGPT Handout - CU Denver</u>	A similar handout to this one. It further discusses possible short term and long term plans for AI.
<u>ChatGPT Padlet</u>	A collection of sites and articles discussing AI that is frequently updated.
<u>ACL 2023 Policy on AI Writing Assistance</u>	Professional opinions and policies on ways to handle ChatGPT.
<u>ChatGPT with Education Presentation</u>	A presentation that offers more ways for instructors to use ChatGPT in the classroom.
<u>ChatGPT Limitations</u> / <u>ChatGPT's Issues</u>	Two sites that discuss the (current) limitations of ChatGPT.
<u>ChatGPT Banned</u>	Forbes list of areas and districts that have explicitly prohibited the use of ChatGPT.
<u>ChatGPT Family</u>	Forbes explains the dynamic between ChatGPT and the other transformers that OpenAI works with.