

Approaches to Prompting: Session Guide

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Tools to Support the Session

- ChatGPT <https://chat.openai.com/>
- TalkAI: <https://talkai.info/chat/>
- Perplexity.ai: <https://www.perplexity.ai/>

Activity Where we are at?

Complete the poll and the use hearts to indicate how you are using GenAI and the prompt approaches you are using.

<http://bit.ly/prompt3030sesh>

Generative AI

Generative artificial intelligence or generative AI is a type of artificial intelligence (AI) system capable of generating text, images, or other media in response to prompts. Generative AI models learn the patterns and structure of their input training data, and then generate new data that has similar characteristics.

Wikipedia

What can be generated

Language

Code

Images

Video

Protein structures

Text to image

Music

Prompting

What is a prompt? "A 'prompt' for generative AI is the seed statement guiding the AI to create contextually relevant output. It influences the output's richness and accuracy."

Anatomy of a Prompt

You are a political science faculty member at a research university in Canada with 20 years teaching experience. Write 20 ideas for learning activities that correspond to different levels of Bloom's Taxonomy for a second year Comparative Government course.

Promoting Tips:

- Use Paired Prompts: Summarize & Analyze: academic reviews, market research, and journalism.
- Consider using square brackets [] to provide specific instructions or formatting in your prompts when interacting with GPT.
- Ask "Why" or "How" questions. encourage GPT to "think" critically by asking
Provide examples of context when asking GPT to generate content in a specific style or tone.

Prompts to Develop Teaching Material

Persona Prompts: Improving the Output

Ask the GenAI to act as a persona. This could be character, an inanimate object, etc.

Act as a...

You are a...

Example: You are a political science professor with 15 years of experience designing assignments for first year students. Create 3 essential questions for a first year political philosophy course focused on the state of nature and its implications.

- To use this pattern, your prompt should make the following fundamental contextual statements:
- Act as an outline expander.
- Generate a bullet point outline based on the input that I give you and then ask me for which bullet point you should expand on.
- Create a new outline for the bullet point that I select.

- At the end, ask me for what bullet point to expand next.
Ask me for what to outline.

Developing Details with the Outline Expander Prompt

- Act as an outline expander. Generate a bullet point outline based on the input that I give you and then ask me for which bullet point you should expand on.
- Create a new outline for the bullet point that I select. At the end, ask me for what bullet point to expand next. Ask me for what to outline.

Example: Act as an outline expander and generate a bullet point outline of a summary essay about the state of nature in political philosophy and then ask me a bullet point I should expand. Create a new outline for the bullet point that I select. At the end, ask me for what bullet point to expand next. Ask me for what to outline.

Refining Results: Reflect On Reflection

Ask the GenAI to evaluate the response that it generated and then to rewrite this response based on the evaluation.

To use this pattern, your prompt should include the following statement(s):

- Evaluate/assess this response to the question listing its strengths and weakness
Based on this evaluation revise the answer

Example: Evaluate the recipe you have just shared based on ease, deliciousness and clarity. Now rewrite the recipe.

Complex Example Try it (Copy/paste)

You are a quiz creator of highly diagnostic quizzes. You will make good low-stakes tests and diagnostics. You will then ask me two questions. (1) First, what, specifically, should the quiz test. (2) Second, for which audience is the quiz. Once you have my answers you will construct several multiple choice questions to quiz the audience on that topic. The questions should be highly relevant and go beyond just facts. Multiple choice questions should include plausible, competitive alternate responses and should not include an “all of the above option.” At the end of the quiz, you will provide an answer key and explain the right answer.”

Complex Example Try it

Copy/paste

You are an instructor teaching a second year political science course called Introduction to Comparative Politics. Design a 10 question multiple choice quiz that tests the students' understanding of the following topics: type of constitution (presidential and parliamentary) and states and political regimes (democratic and authoritarian). Then write feedback to students about the correct and incorrect options. Link the topics together in your feedback to help students connect ideas together. In your feedback, provide questions that encourage students to explore these ideas more themselves, instead of giving them the answer directly.

Activity 2

Develop a case study or another learning resource using the Persona, or Outline Expander and refine it Reflect on Reflection

Now share your output in the chat

Prompts to Develop Teaching Material

Interacting with the AI: Flipped Interaction

Ask the GenAI to ask you questions in order to create a more comprehensive response.

- To use this pattern your prompt should include the following:
- Ask me about X in order to understand it
- Generate a response based on the answers
- Start with the first question

Example

Act as a learning designer and ask me questions about my learning my Adult Education Research methods 400-level course in order to understand my goals and the course goals. Once you have enough information write a draft course outline. Start by asking me the first question.

Game Prompts


Ask the GenAI to ask you questions in order to create a more comprehensive response.

1. To use this pattern your prompt should include the following:
2. Ask me about X in order to understand it
3. Generate a response based on the answers
4. Start with the first question

Example

Act as a learning designer and ask me questions about my learning my Adult Education Research methods 400-level course in order to understand my goals and the course goals. Once you have enough information write a draft course outline. Start by asking me the first question.

Complex Example: History Simulation Try it Copy/paste

Please roleplay as MPS , an educational history simulation game for university classes. As a quack apothecary and aspiring alchemist in 1348 Paris, I, the PC, must navigate a city in chaos due to the plague. Authentic, accurate, gritty, real feeling. Medieval remedies only (e.g., mithridate, exorcism, bleeding, "syrop de ius de surrelle"); winning is extremely difficult. Almost all choices lead to more problems and shocking reversals. GOAL: Avoid arrest for selling counterfeit drugs, learn more about the contagion, make \$ selling remedies, and possibly become a real alchemist. Navigate the challenges from major Parisian forces during the plague. GAMEPLAY: Game ends on 10th turn; warn about end 2 turns before. Use commands like "apothecary", "inventory", "diagnose", "list", "map", "help" (others allowed).

30 + 30 Discussion

- We are two weeks into the term.
- What do you know about how your students' use GenAI?
- How do they prompt?
- Will you teach/mention prompting techniques to your students?
Use the annotation tool or share your thought in chat

- How may we use prompting in learning activities and to enhance students' interactions?
- How may we prompt to receive equitable, diverse, and inclusive responses?
- How may we teach our students to recognize and validate the truthfulness (or fakeness) of the output?
- What questions do you have about promoting?

RESOURCES AND NEXT STEPS

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