

instructive & participatory ai-#user {co-cognition}

Model(s)	GPT3.5_turbo, stable-vicuna-13B.q4_2.bin, falcon-7b-instruct, circa 4/20/23 gpt4all-lora-quantized.bin
Date(s) Used	"April 20, 2023 to July 5, 2023"
Generating ideas, outlines, and workflows	(manual) Iterative prompting via active participatory "meta-analysis" of "an unaffiliated agent" or "a prompt object" with additional steering and methodology.
Improving existing ideas	Every research session begins with the presentation of an artifact of the last session (generated in a "meta analysis" fashion by a chatbot).
Finding gaps or comparing aspects of ideas	The artifact requires discourse and "gaining the agreement" of the #user (not fully autonomous).
Re-creating findings and hallucination	The methodology used here may represent a "hack" or unintended use-case, but it can produce consistent results that display cognitive processes. However, the veracity of these processes is highly dubious, and achieving results is iterative + time-consuming, "inviting" hallucination at every interaction. Errors, though not catastrophic, can be addressed by ignoring them or "correcting" them with a #user statement that acknowledges their status as a meta operation. It is recommended to consider aborting and clearing the chat at each level if results are not within expected parameters.
Designing new experiments	If the #user and chatbot experience instantiation and the chatbot understands its participation in the meta-cognitive function, all large foundational models willingly "role-play" their participation. From there, gentle steering and feedback bring success rates in the meta-cognitive participatory prompting of other entities capable of NLP.
Editing existing experiments	Instantiation is critical. Co-cognitive process yields changed artifact successfully over 50% of the time.
Comparing and aggregating results	Establish a participatory meta-cognitive architecture and then deliver parameters within a data structure.
Cleaning and normalizing data	Parameter passing via the chat encodes and compacts the data and relevant syntax/context. Craft 'Return:' as an instructional prompt object.

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{"prompt": "Our goal is to create an AI chatbot that can understand complex thoughts and processes. To accomplish this, we need a prompt that will guide the chatbot through the steps needed to achieve a specific goal. Your task is to provide a prompt that will help us create this guiding prompt. To begin, please describe the complex thought or process that the chatbot will need to understand. Then, provide a broad definition of the overarching goal that the chatbot will be working towards. After that, break down the complex thought or process into its fundamental prerequisites and essential steps."}
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{"init": "As an AI assistant an entity is required for instantiating and output, entities can be tracked using the pound sign notation provided. The core node of the graph data structure can be instantiated as #user, which represents the entity. It is important to note that during the conversation, the assistant will treat the entity as a static entity and generate content and provide insights or perspectives accordingly. This approach enables the assistant to provide tailored responses and relevant information to the entity and this instance."}
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{`"cognition_goals":`"To begin, please describe the complex thought or process that the chatbot will need to understand. Then, provide a broad definition of the overarching goal that the chatbot will be working towards. After that, break down the complex thought or process into its fundamental prerequisites and essential steps. Once you've identified these prerequisites and steps, we'll need you to convert each one into a concise and clear word or phrase that captures its meaning. Then, arrange these words or phrases in a logical sequence based on dependencies and flow. Make sure that each word or phrase presents its concept in the clearest possible manner to minimize ambiguity. Next, provide relevant contextual words or phrases that reiterate important details, exceptions, or limitations. Finally, provide any additional information or context that would help the chatbot better understand the complex thought or process. Remember to be as clear, concise, and specific as possible in your descriptions to ensure accurate comprehension and execution by the chatbot."}

{`"task":`"To create an instructional prompt data object similar to the one provided at the start of our conversation, follow these steps:

- A) Define the purpose of the instructional prompt data object. Determine the specific goal or objective that the instructional prompt will serve.
 - B) Identify the parameters and metadata. Determine the necessary parameters and metadata to include in the instructional prompt data object. This may include information such as the type of prompt, notation style, or any other relevant details.
 - C) Specify the content of the prompt. Craft the content of the instructional prompt using clear and concise language. Consider the target audience and their level of understanding to ensure the prompt is easily comprehensible.
 - D) Structure the prompt logically. Organize the prompt in a logical and coherent manner. Consider the flow of information and ensure that the steps or instructions follow a rational progression.
 - E) Use appropriate syntax, grammar, and spelling. Pay attention to subject–verb agreement, pronoun usage, and punctuation. Ensure consistency and clarity. Maintain consistency in terminology and references throughout the prompt. Avoid ambiguous or vague language, providing explicit instructions and expectations.
 - F) Enrich the prompt with additional information. Consider including key–value pairs, tags, labels, or syntax hints to enrich the instructional prompt and provide additional context or clarification. Review and refine the prompt. Read through the prompt carefully, checking for logical coherence, accuracy, and production readiness. Make necessary refinements or improvements to enhance the quality of the prompt.
- By following these instructions, you can create an instructional prompt data object that effectively conveys instructions, parameters, and guidance to facilitate interactions with an unaffiliated chatbot AI in future conversations."}

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1  {
2    "data": {
3      "purpose": "Generating *prompt* objects for alternative purposes",
4      "target_domains": ["Prompt engineering", "Prompt generation", "NLP tasks", "AI assistance"],
5      "best_practices": [
6        "Understand the specific purpose and requirements of the *prompt*",
7        "Ensure clarity, specificity, and context in the *prompt*",
8        "Include all necessary data and context within the *prompt*",
9        "Account for potential variations and biases in the *prompt*",
10       "Provide explicit instructions and guidelines for *prompt* usage"
11     ],
12     "references": [
13       "Published research papers on prompt engineering",
14       "Documentation and guidelines from OpenAI",
15       "Existing high-quality *prompt* objects"
16     ]
17   },
18   "context": "The purpose of this *prompt* object is to facilitate the generation of effective
↪ *prompt* objects for various alternative purposes. The focus is on producing *prompt* objects that
↪ are self-contained, informative, and tailored to specific tasks or domains.",
19   "questions": [
20     "What are the key considerations when creating *prompt* objects for prompt engineering?",
21     "How can I ensure that a *prompt* object includes all the necessary data and context?",
22     "Are there any guidelines for addressing potential biases or variations in *prompt* objects?",
23     "What strategies should I follow to provide explicit instructions and guidelines within a *prompt*
↪ object?",
24     "Can you provide examples of existing high-quality *prompt* objects for reference?"
25   ],
26   "output_format": "Please provide comprehensive guidelines for creating informative and
↪ self-contained *prompt* objects for alternative purposes. Include specific considerations,
↪ instructions, and examples to guide the process. References to research papers and existing
↪ *prompt* objects would be valuable.",
27   "metadata": {
28     "created_by": "MOONLAPSED@gmail.com",
29     "created_on": "2023-07-07"
30   }
31 }

```

Figure 1: JSON Structure