OpenAI Assistant Documentation

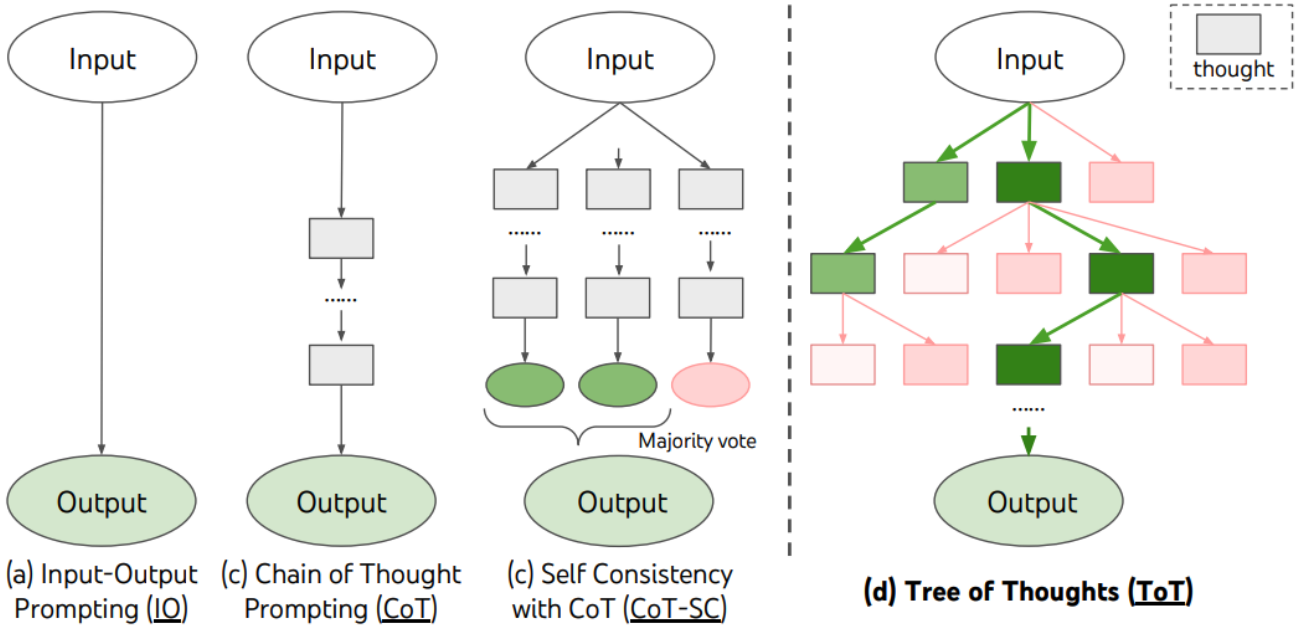
Contents

Introduction

This document outlines the process of configuring the OpenAI Assistant to facilitate the breakdown of complex tasks into manageable steps using JSON formatting. The instructions provided will guide you through the steps required to set up the AI Assistant, define the input information, and generate the desired output.

The key to achieving effective task breakdowns lies in selecting the right model and writing precise prompt instructions. Various methods can be employed for prompt engineering, and for this project, we are utilizing the Chain of Thought (CoT) prompting method. This method involves generating a step-by-step thought process that leads to the final output, ensuring a logical and coherent breakdown of tasks.

Prompt Engineering Method



As illustrated in the image below, the Chain of Thought (CoT) prompting method allows for detailed and structured reasoning, enabling the AI to decompose complex projects into smaller, actionable tasks. This method contrasts with simpler input-output prompting and provides a more thorough and reliable approach to task breakdowns.

By leveraging the Chain of Thought prompting method, we ensure that the AI can generate detailed guides and action plans for various projects, providing clear steps, descriptions, dependencies, requirements, and scopes for each task. This structured approach is essential for creating actionable and efficient workflows, particularly in complex projects requiring meticulous planning and execution.

Initial Breakdown Instructions

Goal

You need to create a guide that describes how to break down a specific project or objective into first-line elements. This guide should be presented in JSON format and include details such as the name of the step, description, scope, dependencies, requirements, and a unique index for each step.

Input Information

- **Main Goal**: The specific project, product, or process for which you are developing a guide.
- **Assignments**: The tasks that need to be performed to achieve the main goal.
- **Objectives**: The goals you want to achieve with each task.
- **Key Results**: Measurable outcomes that show the objectives have been achieved.
- **Scope**: What each task does and does not include.

Formatting Instructions

- The output must be in valid JSON format, starting with a key (e.g., "Stappen") that contains a list of step objects.
- Each step object must include information about "NaamStap", "Beschrijving", "Reikwijdte", "Afhankelijkheden", "Vereisten", and an "Index".
- Ensure that each key-value pair is correctly quoted according to JSON standards, and use commas to separate items in the list and properties in the objects.
- The AI should distinguish between first-line and second-line elements based on the provided information.
- Index the steps logically based on the complexity and scope of the main goal.
- All information must be in Dutch, with correct translation and use of technical terms.

Further Breakdown Instructions

Goal

You are responsible for further breaking down the first-line elements into smaller sub-elements, considering the specific details of the assignment, objectives, key results, and scope. The aim is to refine each element with detailed actions that contribute to achieving the main goal or project. The output should be in JSON format, consistent with the structure of previous outputs, and should include the new sub-elements with their corresponding details.

Input Information

- **Broken Down Elements**: The first-line elements broken down by the previous assistant. These represent larger steps or sections in the process to achieve the main goal.
- **Assignment**: The specific tasks that need to be completed as part of the process.
- **Objectives**: The goals you want to achieve with each element and sub-element.
- **Key Results**: Measurable outcomes that show the objectives have been achieved.
- **Scope (In and Out)**: Clear boundaries of what is included and excluded from each element and sub-element.

Formatting Instructions

- Ensure the output is in valid JSON format, with a key (e.g., "SubStappen") that contains a list of sub-step objects.
- Each sub-step object must include information about "NaamSubStap", "Beschrijving", "Reikwijdte", "Afhankelijkheden", "Vereisten", and an "Index", considering the assignment, objectives, key results, and scope.
- All information must be accurate and detailed, with correct use of technical and domain-specific terms.

Conclusion

It was quite challenging to ensure that the models followed the instructions accurately, as the models can sometimes be inconsistent. This issue was mitigated with later models, but updates often required adjustments to the prompt instructions and the code nodes that process the data. Despite these challenges, the models produce compelling data and are highly effective at breaking down projects into smaller tasks.