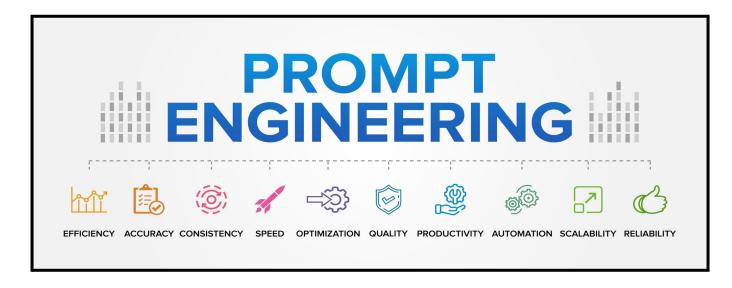


## **Components of a Good Prompt**

This resource breaks down the art of prompt engineering even further. You'll learn the importance of making a high-quality prompt, how these elements interact to guide a language model's responses, and how you can construct, analyze, and improve your own prompts.

## The Anatomy of a Prompt

Let's take a moment to deconstruct what a prompt really is. In the world of language models, a prompt is the input that guides the model's output. Think of it as a question, a task, or a starting point for the model's text generation process.



A prompt is more than just a command or question you feed to a language model. It is a carefully crafted combination of elements that steer the model in a specific direction. There are four key components that each prompt should ideally include. Let's discuss them in detail.

1. Context: The context of a prompt is the backbone upon which the entire interaction is built. It provides the background or scenario for the task at hand. Context helps a language model to make sense of what is expected from it. It can be a direct explanation of the situation, or it can involve more subtle hints about what kind of output is needed. For instance, if you wanted a detailed discussion on climate change impacts, providing a context like "In the light of recent IPCC reports and global policy discussions," can guide the Al to deliver a contemporary, nuanced response.

Think about a topic you're interested in, and write down a context for a potential prompt in the Chat-GPT text input box!

2. Task: The task is the actual instruction or directive for the language model. It defines what you want the model to do. The task may involve translating a sentence, generating a story, summarizing a passage, or answering a question, among many other things. It's essential to be clear and explicit about the task to avoid ambiguity in the response.

Using the context you wrote in the previous exercise, create a task that complements it. Write down the task in the Chat-GPT text input box!

- 3. Specificity: This component determines the detail level in your task. A vague task may lead to an output that's too general and unfocused, while a more specific task can guide the model's output toward the information you desire. The trick is to be as specific as possible without being overly restrictive, which could limit the model's creative possibilities.
- **4. Tone**: A prompt's tone can shape the output's nature. If you need a formal piece of text, your prompt should reflect that. On the other hand, if you want a casual, conversational tone, your prompt should include elements of that style. You can even ask for humor, sarcasm, or any other tone, and a good language model should be able to mimic it.

Based on the context and task you've created in the previous exercises, now decide on the tone you want from the language model. Write it down in the Chat-GPT text input box!

## **Crafting Your Prompts: A Balanced Act**

Having understood the components, it's time we move on to construct a well-structured prompt. Crafting a good prompt is akin to a balancing act — too little information and the Al could go off on a tangent; too much, and you might restrict the

creative possibilities of the Al. Here's how to strike that balance:

First, start with a clear context and task. These should form the skeleton of your prompt.

For instance, if you're looking to get a summary of a research paper on climate change, your context might be "Considering the latest research in the field of climate change," and your task would be "summarize the main findings of the paper."

Next, fine-tune the specificity of your prompt. You want to make sure you're not leaving too much open to interpretation but also not constricting the Al's output unnecessarily.

In the above example, a more specific prompt might be "summarize the main findings of the paper, focusing on the impact of global warming on polar ice caps."

**Finally, decide on the tone that fits your needs best**. In a professional setting, a more formal tone might be appropriate. A conversational tone could be more suitable if you're asking for a summary to be shared in a casual discussion.

Let's take a step back and view our crafted prompt: "Considering the latest research in the field of climate change, summarize the main findings of the paper, focusing on the impact of global warming on polar ice caps." This prompt provides context, clearly defines the task, is specific about what to focus on, and implies a formal tone appropriate for summarizing a research paper.

Building upon this, you can experiment, observe the responses, and tweak your prompts accordingly.

## Examples of Well-Crafted Prompts vs. Bad Prompts

To further illustrate the importance of each component in a prompt, let's compare examples of well-crafted prompts with examples of bad prompts. This will help you better understand how each component contributes to the effectiveness of a prompt. Take a look at the table below:

Component	Well-Crafted Prompt	Bad Prompt
Context	Considering recent breakthroughs in cancer research, provide an overview of the latest treatment options available for stage 4	Tell me about cancer treatment.

	breast cancer patients.	
Task	Write a persuasive essay arguing for or against the implementation of renewable energy policies to combat climate change.	Write an essay.
Specificity	Create a detailed step-by-step guide for making homemade pizza dough, including ingredient measurements and baking instructions.	Share a recipe for pizza dough.
Tone	In a friendly and engaging manner, explain the concept of compound interest to a teenager who is new to personal finance.	Explain compound interest.

In the well-crafted prompts, you can see how each component adds clarity, specificity, and context to guide the language model effectively. The bad prompt, on the other hand, lacks necessary details, resulting in vague or irrelevant responses from the language model.

By comparing these two examples, you can begin to recognize the importance of constructing prompts that encompass all components and avoid the pitfalls of poorly crafted prompts.