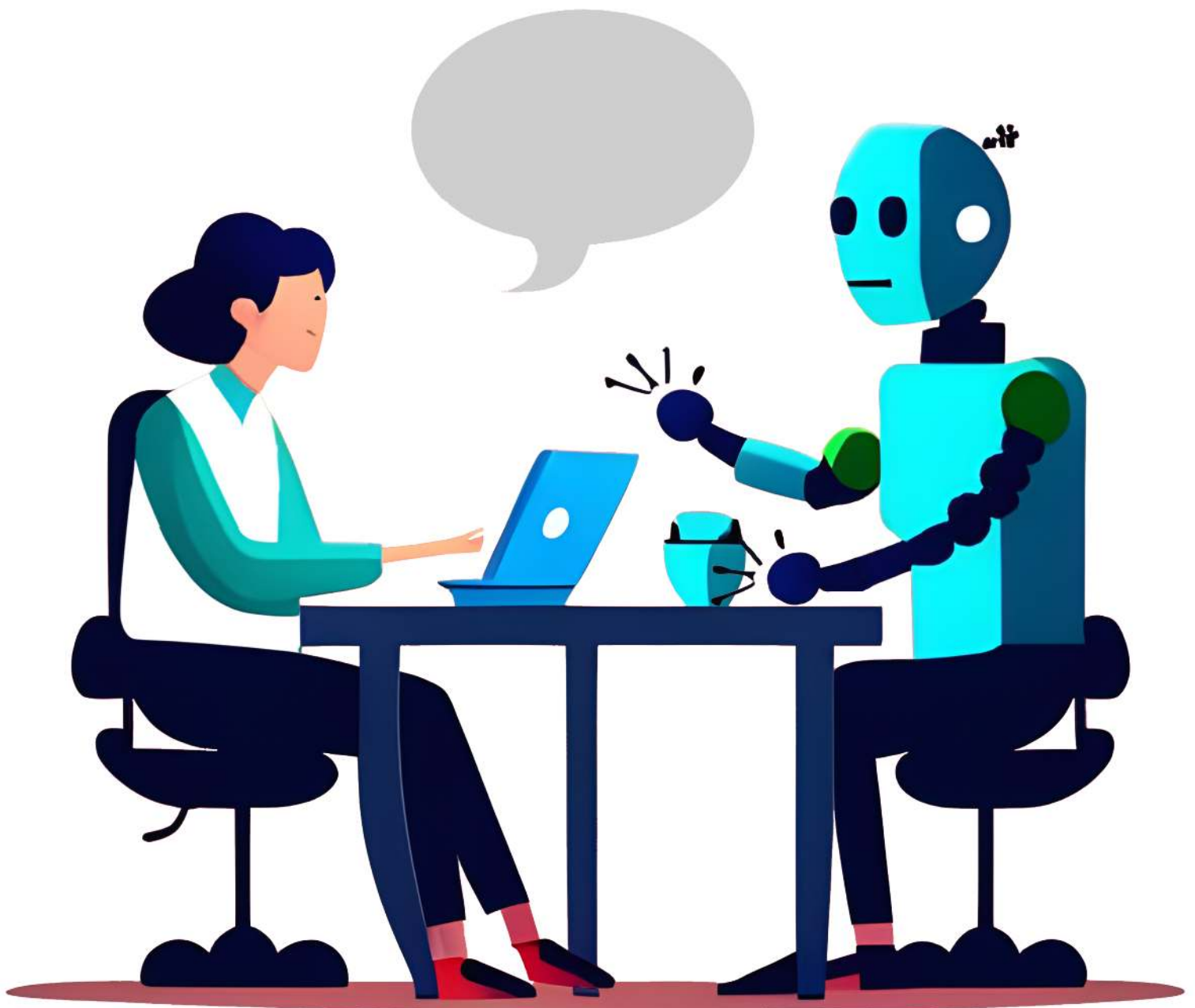


Prompts 101

The Beginner's Guide for
ChatGPT™ and Google Bard™



Second Edition

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Chatbots: An Introduction

Whether you are a beginner exploring the vibrant landscape of AI communication or an adept professional seeking to polish your expertise in prompting chatbots, this essential guide is fashioned with you in mind. We will discuss the fundamentals of chatbot interaction as well as the essential elements of prompting that are applicable to models such as OpenAI's ChatGPT™ and Google's Bard™.

In this e-book, we hope to help you understand the intricacies of shaping conversations and discover how chatbot prompting can unlock a variety of potentials. For instructional simplicity we will be using and referring to ChatGPT for examples.

What Is A Chatbot?

A chatbot is a computer program that interacts with humans in their natural languages. These interactions can occur through messaging applications, mobile apps, or even websites. If you have used a messaging app for customer support in recent years, chances are you have already interacted with a chatbot - perhaps without even knowing it!

Chatbots can be as simple as providing single-line responses to specific commands or as complex as carrying out sophisticated conversations. OpenAI's ChatGPT™ (Generative Pretrained Transformer) series and Google's Bard™ are two types of chatbots that are currently dominating the AI landscape. These chatbots are both Large Language Models (LLMs). LLMs are models trained on extensive data to predict what word should come next in a sentence.

The Capacity and Constraints of Chatbots

Chatbots, particularly those based on LLMs like GPT-4, are highly adept at a variety of tasks. They can write essays, poems, or stories; answer factual questions; create human-like text based on prompts; help teach languages; and even simulate conversation with a specific personality. They possess an astonishing ability to understand language as an input then generate human-like text, making them powerful tools for many language-oriented tasks.

While their versatility is impressive, it's equally crucial to understand what chatbots can't do. They cannot understand or perceive the world as humans do. They don't have feelings, beliefs, desires, fears, or experiences. They don't understand the content they are processing, and they lack the ability to reflect upon what they 'say'. While their responses may seem insightful or emotionally sensitive, it's a result of their training, not conscious understanding. Additionally, Chatbots cannot access personal data about individuals unless it's shared in the course of the conversation.

Artificial Intelligence and Large Language Models

Is a Large Language Model an example of artificial intelligence (AI)? The answer is yes. AI refers to the capability of a machine to imitate intelligent human behavior. LLMs like GPT-4 are subsets of AI, specifically in the field of natural language processing (NLP). They utilize machine learning techniques to understand, generate, and respond in human language, demonstrating a form of 'intelligence'.

However, it is crucial to differentiate this from human consciousness or self-awareness - LLMs like ChatGPT do not 'think' or 'understand' in the way humans do.

Current Limitations of LLMs

Several limitations exist as of the latest models, like ChatGPT-4:

A Lack of Common Sense

An important aspect of human communication is common sense knowledge: the general, shared understanding we have about the world that guides our decisions, actions, and interactions. Despite impressive progress, LLMs like GPT-4 still can't quite capture this knowledge. Because they don't actually comprehend the world as humans do, they lack this fundamental grasp of 'how things work.' For example, a chatbot might not object to a scenario where cats are used as boats or where it rains upwards — scenarios which are nonsensical to any human with basic life experience. Therefore, even with their extensive training, LLMs can sometimes produce responses that, while grammatically correct, might be logically flawed or even absurd.

Dependence on Input and Pre-Existing Knowledge

The quality of a chatbot's output is intrinsically linked to the quality of the input it receives and the knowledge it was initially trained with. If a question is unclear, too broad, or poorly structured, the response may not meet the user's expectations.

A chatbot's ability to provide accurate and up-to-date information depends on the data it was trained on. For instance, models like ChatGPT's knowledge is limited to the time before it was last trained - in the case of GPT-4, this cutoff is in September 2021 (barring some exceptions). Therefore, if a user asks a question about an event that happened after this cutoff, the chatbot would not have the necessary information to give a correct answer. Understanding ChatGPT's knowledge limitations when interacting with it will help you craft effective prompts.

Difficulty with Ambiguity

As humans, we draw upon our knowledge and context to clarify vague or ambiguous statements. Large Language Models (LLMs), on the other hand, cannot do that. They can't independently ask for clarification or pose follow-up questions. Give them a prompt like "How tall is he?", and if they don't know who 'he' refers to, they might take a shot in the dark or reply in a way that shows they are not following the context.

Inconsistency

Even though LLMs have been trained on mountains of data, they can sometimes be all over the place with their answers. This means that if you ask them the same or almost the same question at different times, you might get wildly different answers. This unpredictability comes from the fact that these models are probability-based and don't have the capacity to really understand or remember past interactions. For example, if you ask ChatGPT, "What's the capital of France?" a bunch of times, it's pretty likely to consistently answer "Paris." But if you ask it to spin a long tale or give an opinion, the answers may change every time you ask.

Potential for Misuse

As with many technologies, LLMs have the potential to be misused. They can be used to generate harmful, offensive, or misleading content, given the right (or rather, wrong) prompts. The anonymity that chatbots provide can also be exploited for spreading disinformation, propaganda, or cyberbullying. Safeguarding against such misuse while maintaining the usefulness and openness of these systems is a major challenge in the field. Organizations like OpenAI have implemented use-case policies and moderation tools to help minimize harmful and untruthful outputs.

Technical, Yes. Artistic, Definitely!

Chatbot prompting is the art of crafting prompts that contextualize the conversation and elicit thoughtful responses from LLMs. It's the secret sauce that empowers us to ask good questions and receive great results. By providing the right context, we set the stage for LLMs to showcase their knowledge and creativity. It's like giving them a roadmap to guide them towards delivering relevant and meaningful answers.

Imagine you want to ask an LLM about the impact of climate change on coral reefs. Instead of a generic question like "How does climate change affect coral reefs?", let's infuse our prompt with creativity: "Picture yourself diving into the crystal-clear waters of a vibrant coral reef. As you marvel at the kaleidoscope of colors and the graceful dance of marine life, you begin to wonder about the threats that climate change poses to this delicate ecosystem. Can you shed some light on this pressing issue?"

By painting a vivid picture and invoking imagination, we engage the LLM on a deeper level. Our creative prompt triggers a more immersive and insightful response. Perhaps the LLM will describe the bleaching process, the symbiotic relationship between corals and algae, or the efforts being made to protect these fragile ecosystems. By leveraging our creativity, we can unlock a wealth of knowledge from LLMs and facilitate meaningful conversations. In this book, we will equip you with the tools and techniques to become skilled prompt engineers. We'll explore the nuances of context, question framing, and the effective use of creative language.

In the following chapters, we discuss how to unlock the true potential of LLMs and leverage their capabilities to ask good questions and obtain remarkable results.

New Chats and Hallucinations

In the world of chatbots, two crucial concepts bear significance: the initiation of new chats and the phenomenon called "hallucinations." If you're a beginner in this realm, these terms might seem a tad overwhelming. But fear not - this chapter aims to simplify these terms and explicate why they're so crucial for training chatbots like ChatGPT.

Starting New Chats: The Learning Cycle of a Chatbot

In the context of chatbots, a "new chat" refers to starting a new conversation or dialogue, wherein the chatbot doesn't remember past interactions. This might seem counter-intuitive. After all, we humans rely on previous conversations and experiences to guide our future interactions. So, why are new chats crucial for training chatbots?

For AI models like ChatGPT, new conversations present fresh and unique contexts. When a model is trained, it analyzes and processes a wealth of internet text, but it doesn't have a persistent memory of past interactions. By continually presenting new situations and dialogues, we expose the model to a vast range of scenarios, allowing it to improve its ability to generate responses. This process of learning and adaptation contributes significantly to the model's overall performance. It also serves to help avoid hallucinations, as explained below.

Hallucinations: A Pitfall of AI Conversations

In AI vernacular, "hallucinations" refer to instances when an AI model generates output that isn't grounded in its input or training data. For instance, a chatbot might claim something entirely false without any prompting or generate nonsensical text that doesn't align with the given context. This is a common pitfall in language generation models like ChatGPT.

Starting new chats with a chatbot like GPT-4 is crucial to mitigating the phenomenon of "hallucinations". When we initiate a new conversation, we essentially give the chatbot a fresh slate for each interaction, ensuring it doesn't recall any past discussions. This practice helps establish a fresh context for each dialogue, where the AI solely generates responses based on the immediate input and its training data. By constantly providing unique scenarios, we reduce the likelihood of the chatbot producing unrelated or irrelevant responses, commonly known as hallucinations.

If we keep talking to a chatbot without starting a new conversation, it might start to hallucinate and make mistakes based on its earlier responses. A chatbot that goes off track will say things that don't make sense or aren't related to a discussion. By starting new chats, we break this potential cycle. Each conversation is kept independent, helping ensure that possible mistakes from prior interactions do not influence the current chat, thus preventing hallucinations.

So outside of using new chats for separate conversations, how do we avoid these hallucinations? A few methods can help:

Evaluation and Fine-tuning: Popular models like ChatGPT are evaluated to detect and rectify any hallucinatory tendencies. It involves human reviewers who rate and review the model's outputs for a range of example inputs. Feedback from these reviewers can be used to fine-tune the model and reduce hallucinations.

Use of Moderation Tools: To prevent the AI from generating inappropriate, harmful, or misleading content, the use of moderation tools are used on chatbots like ChatGPT. These can warn or block certain outputs if they're likely to be unsafe.

User Feedback: Users can play a pivotal role in preventing hallucinations. By providing feedback on problematic outputs, they contribute to the continuous improvement and fine-tuning of the model.

Understanding and effectively implementing new chats and preventing hallucinations helps strengthen a chatbot's reliability for cogent responses.

The Essentials

In the world of chatbot interaction, your prompts are the keys that unlock the desired responses. Each word is a marker on the pathway you're laying out for models like ChatGPT to follow. This is where your technical ability and creative flair meet, turning simple instructions into crafted pieces of linguistic art.

In a nutshell, good prompt writing is a unique blend of technical precision and creative expression. The technical part lies in understanding how chatbots function - they predict and generate the next sequence of words based on the input given. It's a bit like programming, except instead of binary, you're working with human language. You're sculpting your sentences to align with the way the language model processes information.

On the other hand, the creative part allows you to weave a tapestry of language that guides the bot in a way that's engaging and efficient. It's not just about asking a question or providing a statement, it's about doing so in a way that evokes the desired response. You need to anticipate the model's interpretation and responses, much like a chess player anticipates their opponent's moves. This includes understanding context, predicting potential misunderstandings, and tailoring your language accordingly.

This is why good prompt writing is both a science and an art. It requires technical understanding, yes, but it also demands a storyteller's intuition. It asks you to map out your desired destination, then to paint a compelling picture that invites the chatbot to join you there. It's this balanced fusion of calculation and creativity that makes the craft so compelling and, when mastered, incredibly rewarding.

Here are some **essential points** to consider when crafting a prompt:

Context

It is important to provide enough context so the model understands what you're asking for. For instance, if you want a recipe for a vegan chocolate cake, it would be better to specify "vegan" in your prompt. A poorly contextualized prompt like "Give me a recipe for a cake" might not give you the desired result. Here's an example of a well-contextualized prompt: "Provide a step-by-step recipe for a vegan chocolate cake."

Brevity

While context is essential, it's also crucial to keep your prompts concise. Long, winding prompts can confuse the model and result in less accurate responses. For example, instead of saying, "I'm really interested in getting into yoga, so I was wondering if you could maybe provide me with a simple 15-minute beginner's routine", a more concise prompt would be: "Provide a 15-minute beginner's yoga routine."

Clarity

Ensure your prompt is clear and precise. If your request is vague, the model's response will likely be too. For instance, if you ask the model to "Describe a bird," the response could be about any bird and in any context. However, if you specify, "Describe the physical characteristics of a European Robin," the model will be able to provide a more precise response.

Generative Prompts

GPT-4 can generate various formats like essays, poems, or lists. But you can also ask it to generate stories, dialogues, or even write a song. Here are a few examples:

"Write a short story about a talking elephant who loves to paint."

"Compose a chorus for a country song about a lost love."

"Create a dialogue between a cat and a mouse about sharing cheese."

GPT-4 does not have an understanding of what should be the start or end of a conversation or a task. It is up to you to point it in the right direction and supply boundaries when looking for specific responses. We explore how to "steer" chatbots in the following chapters.

Having a clear understanding of these essential elements will greatly enhance your interactions with the model. But don't be afraid to experiment! The beauty of AI lies in its versatility and its ability to adapt to a myriad of requests.

The Anatomy of a Prompt

Crafting a well-structured and effective prompt is more than just a skill—it's an art that's essential to elicit meaningful and desired responses. A prompt can be thought of as a skeleton, providing not just a backbone, but an entire structural framework for the desired output. The way you phrase your prompt, the information you choose to include or exclude, and even the order of your words all form this metaphorical skeleton that shapes the contours of the AI's response.

Just like a human skeleton is composed of different bones, each playing a vital role in the body's function and movement, a well-crafted prompt too has several components, each of which plays a critical role in shaping the AI's response.

The "Anatomy of a Prompt" include numerous elements, each contributing to the efficacy of your communication with the AI. These elements work in unison to breathe life into the bare bones of your prompt, enabling the chatbot to deliver responses that are not only accurate but insightful and engaging.

FORMATTING : The Structural Blueprint

Format is how you tell the AI to organize your thoughts.

Do you want a list, an essay, or an equation? The format can guide the AI to provide the info you need in the most useful, digestible way.

Examples:

"Give me a **bullet-point list** of ways to reduce stress."

"Please outline the main points of your argument in a **bullet-point list**."

"Create a **Haiku** about a tranquil garden."

By specifying the format, you're guiding the AI to provide a condensed yet comprehensive summary in paragraph form. The AI default may be to generating a paragraph or a string of sentences, which might not be the most appropriate or effective way to present the information you need. Below are 10 types of convenient formats you can request to get started:

Lists: "Create a bullet-point list of the top 5 tourist attractions in Paris."

Tables: "Organize the following information into a table with columns for Name, Age, and Occupation: John, 35, Engineer; Sarah, 28, Teacher; Mark, 42, Doctor."

Headings: "Write a report about climate change with the following headings: Introduction, Causes, Impacts, Solutions."

Code: "Write a Python function that calculates the factorial of a given number."

Bold or Italic text: "Write a persuasive paragraph where you emphasize the importance of recycling by using bold text for key points."

Quotes: "Write a famous quote about perseverance and surround it with quotation marks."

Hyperlinks: "Create a sentence where the words 'Learn more' are hyperlinked to the website www.example.com."

Images: "Describe a picturesque landscape and include a placeholder for an image of a beautiful sunset."

Footnotes: "Write an essay on the history of Ancient Egypt and include a footnote with additional information about the construction of the pyramids."

Math Equations: "Solve the following equation and display the solution in mathematical notation: $2x + 5 = 15$."

Without a specified format, the response may not meet your needs. If you were seeking a business proposal but didn't specify, you might end up with a limerick!

OBJECTIVE : The Content Compass

Here's where you point the AI in the right direction. Objective is the 'why' behind your AI's response. Giving it a clear goal helps it generate content that fulfills your needs.

Do you want to inform, persuade, entertain? Make it clear:

"Write a step-by-step guide on how to assemble a bookshelf using the provided instructions and tools."

This prompt clearly outlines the objective of creating a comprehensive guide that explains the process of assembling a bookshelf. The objective is to provide a clear, detailed set of instructions that users can follow to complete the task successfully.

"Develop a marketing strategy to increase customer engagement for an e-commerce website."

This prompt sets the objective of developing a marketing strategy aimed at enhancing customer engagement for an e-commerce website. The objective is to provide a well-thought-out plan with actionable steps to attract and engage customers effectively.

"Design a user-friendly mobile application for tracking fitness goals and progress."

In this prompt, the objective is to design a mobile application that is user-friendly and specifically caters to tracking fitness goals and progress. The focus is on creating an intuitive and efficient app interface that facilitates goal management and progress tracking for users.

"Create an informative blog post about the latest advancements in renewable energy."

Without a clear objective, your AI might default to a general-purpose response. You might want a persuasive argument and end up with a simple list of facts.

SCOPE : The Boundary Keeper

Setting the scope keeps your AI focused. It's like telling a dog to stay within the yard.

By defining the scope, you're giving your AI a map with clearly marked boundaries.

Below are 3 types of scope: narrow, broad, and comparative.

Narrow Scope : "Explain the rules and gameplay of chess, focusing on how each piece moves and captures."

Here, the scope is limited to explaining the rules and gameplay of chess, with a particular emphasis on the movement and capturing abilities of each chess piece. This narrow scope allows the model to provide a detailed explanation of the specific aspects of chess that are requested.

Broad Scope: "Discuss the impact of technology on society."

In this example, the broad scope allows GPT-4 to explore various aspects of technology's impact on society. By not restricting the scope too much, you give the model the freedom to provide a comprehensive and insightful response, covering different perspectives and angles.

Comparative Scope: "Compare and contrast the advantages and disadvantages of electric cars and traditional gasoline-powered cars."

In this example, the scope involves a comparison between two specific subjects: electric cars and traditional gasoline-powered cars. By framing the prompt with a comparative scope, you guide GPT-4 to analyze and highlight both the positive and negative aspects of each type of vehicle, leading to a balanced response.

Without defining the scope, your request for the pros and cons on coding languages might include every programming language under the sun.

TONE : The Style Setter

Just like choosing the right outfit for a party, setting the right tone is crucial. Specifying tone helps your AI understand the mood you want the response to create.

Examples:

"Craft an **easy-going, conversational** blog post about the joys of backyard gardening."

"Compose a **humorous** toast for my best friend's wedding."

"Write a **formal** proposal for a new environmentally friendly project"

A vague tone can lead to a mismatch, like getting a sarcastic response when you were aiming for sincerity. An incorrect tone can lead to the AI's response being misunderstood or inappropriate for the situation. If the initial response is not what you are looking for, try a follow-up prompt with a specific tonal direction: "Rewrite your response in a _____ tone."

"You Are" : The Role Assignment

"You are..." assigns a role to the AI. This gives your AI a persona, allowing it to generate responses from a unique perspective, and adds depth to the conversation. This will influence the perspective, language, and tone of its responses. Want ChatGPT to play a certain role? Here's where you give it the script.

Examples:

"**Imagine you're a personal finance advisor.** Provide tips on how to create a balanced budget."

"**You're a world-renowned sommelier.** Discuss the art of wine tasting and how to appreciate different types of wine."

"**Pretend you're a climate scientist.** Explain the concept of global warming to a middle school student."

By using distinct voices you can explore specificities in tone and role:

“**Act as Oprah Winfrey** and host a talk show episode featuring inspiring stories of everyday heroes.”

“**Pretend you are Alan Watts** and provide some tips and steps on how to meditate.”

“**You are Serena Williams**. Give a motivational speech to aspiring tennis players at a sports academy.”

Be sure to use "You are" versus "Pretend" or "Act as" to avoid hallucinations. Failing to define the role may result in a generic, less engaging response. If you wanted expert advice but didn't specify, you might get a beginner-level perspective.

You can prompt a simulated conversation between two voices. Some effective roles to explore include: inventor, marketer, author, therapist, journalist, advertiser, accountant, copywriter, entrepreneur, and business coach.

CONTEXT : The Information Foundation

Providing context helps the AI create relevant and accurate content. Context is your AI's background check, giving it the base knowledge needed to construct an appropriate response. It's like giving a tour guide of the information landscape.

Examples:

"Write about the impact of the tech boom **on Silicon Valley's real estate**."

"**From the context of a biology teacher**, explain the concept of photosynthesis."

"Discuss the cultural impact of jazz music, **focusing on the Harlem Renaissance period**."

Without context, your AI could produce a response that's off-target or too general. A prompt about Shakespeare without specifying the context could lead to a response about his sonnets when you wanted something about his plays.

KEYWORDS – The Guidance Beacons

Keywords are like your AI's searchlights. They help it focus on the key elements you want to discuss or highlight.

Examples:

"Talk about migraines including triggers, symptoms, and treatment options."

"Discuss the life of Albert Einstein, focusing on his childhood, education, and breakthroughs."

"Write a blog post on self-care, including sections on mindfulness, exercise, and balanced diet."

Include as many as you think are pertinent. Without keywords, the AI might overlook specific points. A prompt about self-care might overlook mental health if it wasn't explicitly mentioned.

Try these KEYWORDS:

Describe, explain, tell me about, create, generate, invent, recommend, suggest, advise, compare, contrast, similarities, define, meaning, definition, share, discuss, talk about, how to, steps, tips, benefits, examples, challenges, impact

LIMITATIONS – The Content Sculptor

Setting word or character limits helps shape your content. It's like picking the right-sized canvas for a painting. Limitations are your AI's sandbox boundaries. They help shape the response's length and depth to your requirements.

Examples:

"Summarize the theory of relativity **in under 500 words**."

"Craft a detailed, **2000-word guide** to baking sourdough bread at home."

"Write an **eight sentence summary** of the French Revolution."

Without setting a limit, your AI might deliver a concise report when you wanted an exhaustive one, or a novella when you were looking for a short story.

Try these LIMITATIONS:

"provide a concise answer in one sentence," "summarize the information in a paragraph," "limit the response to 100 words," "provide a bulleted list of key points," "generate a tweet-length response," "answer with a yes/no response," "offer an explanation using three sentences," or "give a step-by-step response with no more than five steps,"

AUDIENCE – The Reader's Lens

Identifying the audience is like choosing the perfect gift for a friend; it's all about what's most suitable and valuable for them. By specifying the audience in your prompts, you're enabling the AI to tailor its responses to their needs, understanding, and interests.

Examples:

"Write a children's story about a courageous bunny overcoming its fears, **suitable for ages 5-7.**"

"Create a detailed, technical report on the latest advances in machine learning **for a group of data scientists.**"

"Craft a beginner-friendly guide to using a DSLR camera **for novice photographers.**"

Without specifying the audience, the AI might create content that doesn't resonate with your readers. For instance, if you request a guide on quantum physics without specifying the audience, you might receive a high-level academic paper instead of a beginner-friendly overview that you intended for high school students.

By aligning the audience with the prompt, you ensure that your AI's output hits the mark, creating meaningful engagement with the readers.

TRY THESE AUDIENCES:

*Children aged 6-12, **teenagers**, young adults, **college students**, parents and caregivers, **healthcare professionals**, finance professionals, **professionals in technology**, senior citizens, **hobbyists and enthusiasts like gamers**, artists, **photographers**, home cooks and food lovers, **fitness and wellness enthusiasts**, entrepreneurs, **business owners**, **students preparing for exams**, language learners, **pet owners**, environmental activists, **history buffs**, science and technology enthusiasts, and **DIY and craft enthusiasts**.*

CITATIONS : Verifying Facts

Using citations in your prompts for the AI is crucial when you need it to provide information that is backed by credible sources. This is particularly essential for academic, research, or professional contexts where factual accuracy and attribution are paramount. If you don't utilize citations, the information generated might lack credibility and context, which might mislead the readers or lead to intellectual property disputes.

Example:

"Could you provide a summary of the current research on the impact of AI in healthcare, **including references to peer-reviewed articles?**"

"Please generate a detailed report on the effects of climate change on agriculture. **Make sure to cite authoritative and recent sources.**"

"Can you explain the principle of quantum superposition in layman's terms? **Include citations from reputable physicists or scientific publications.**"

False Information

Models like ChatGPT do not have direct access to databases, the internet, or real-time information, therefore any specific sources, articles, or data mentioned in its responses are likely to be part of the general knowledge it has learned or are completely made-up. It is also unable to verify information against real-time data.

It's crucial to cross-verify any purported 'citations' given by the model independently, especially when using the information for academic, professional, or other critical purposes.

POINTS OF VIEW : The Comprehensive Take

Asking a chatbot to consider different points of view fosters a more comprehensive understanding of any subject matter. It ensures that the answer generated is not one-sided or biased, but instead reflects the potential diverse perspectives on a given topic.

Examples:

"How would the narrative of income inequality differ through the lenses of a capitalist and a socialist? [Share the key tenets and critiques each side offers.](#)"

"How do western and eastern philosophical traditions view the concept of self? [Provide insights from notable philosophers from each tradition.](#)"

"Discuss the advantages and disadvantages of online education [from the perspectives of teachers, students, and parents.](#)"

COUNTERARGUMENT : The Perspective Mirror

Integrating counterarguments in your prompts is a great strategy for achieving a more robust and persuasive response. It shows a nuanced understanding of the topic and a readiness to engage with opposing views. Ignoring this element might lead to the generation of one-sided or overly simplistic content that fails to engage with the complexity of a subject.

Examples:

"Argue in favor of [renewable energy](#), [addressing common criticisms such as](#) the intermittency problem and high initial costs."

"[Defend the value of](#) a liberal arts education in today's tech-driven economy, [while acknowledging and addressing the argument that](#) it lacks practicality or direct job applicability."

"Support the argument for remote work as the future of business, but [also address counterarguments related to](#) employee isolation and challenges with collaboration."

A Simpler Format

When first learning how to prompt, a simple format can help organize and clearly define your thoughts for ChatGPT in a structured manner. Here is a descriptive prompt:

"You are a cook looking for an easy and delicious vegan dessert recipe. Your goal is to create a delicious dessert that showcases the vibrant flavors of plant-based ingredients. In a friendly and informative manner, provide a detailed recipe with a list of ingredients that will guide me through the process of preparing this vegan dessert."

And this prompt can be rewritten using a simple prompt format:

Task: Create a recipe
Topic: Vegan dessert
Style: Easy and delicious
Tone: Informative and friendly
Audience: Home cooks
Format: List of ingredients

Using this format has several advantages. Firstly, it helps you clearly articulate your intention and the specific type of response you are looking for. By breaking down the prompt into different components, you can focus on each aspect and ensure that ChatGPT understands your requirements accurately.

This format is also concise and to the point, which can be beneficial when interacting with ChatGPT. Instead of using lengthy descriptive paragraphs, which when done without precision may confuse the chatbot or dilute your prompt's clarity, the simple format highlights key information while being easy to read and understand.

As you become more familiar with using ChatGPT, you can experiment with different prompt styles, including descriptive paragraphs. Starting with a structured format provides a solid foundation and helps you gain confidence in interacting with the chatbot effectively. You can also add or subtract components such as Role ("You Are"), Limitations, Keywords, and more, to explore the clarity of responses.

"Ask as Many Questions as You Need"

When interacting with an AI model like GPT-4, one powerful technique to ensure a detailed, open-ended conversation is to invite the model to ask questions. This strategy is particularly effective when you want the AI to guide the discussion or to obtain more specific information based on user responses. The phrase "ask as many questions as you need" can be instrumental in these instances. This chapter sheds light on how to effectively use such a statement in your prompts to keep the conversation engaging and informative.

The first aspect to consider is the context of the discussion. Depending on your specific needs, you may want the AI to ask more about your preferences, your goals, or your knowledge on a subject. For instance, if you want to start a fitness regimen, you could prompt: "I'm planning to start a fitness regimen. As a personal trainer, ask as many questions as you need to understand my current fitness level and goals."

Secondly, this approach can be particularly helpful when the AI needs to understand complex or multi-faceted topics. When you want the AI to generate a detailed analysis or comprehensive plan, inviting it to ask questions can guide it towards understanding the intricacies of the subject matter. For example, "I'm considering investing in renewable energy. As a financial advisor, ask as many questions as you need to provide a detailed investment strategy."

Finally, this technique also serves well in brainstorming sessions. By allowing GPT-4 to ask questions, it can prompt you to think in ways you might not have considered. An example could be, "I'm trying to come up with a plot for a science fiction novel. As a creative writing assistant, ask as many questions as you need to help me build a unique and engaging story."

Prompt and Prompt Again

Interacting with ChatGPT isn't about typing random things into a box and expecting it to produce nuggets of wisdom (though, there will be those magical moments). It's about discovering how different prompts elicit varied responses, learning how to guide the conversation, and most importantly, embracing the adventure of experimentation. Think of a chatbot as a sophisticated recipe, where your prompts are the ingredients. Just as adding a pinch of salt can completely change the flavor of a dish, tweaking your prompts can dramatically alter the AI's responses.

So how does one embark on this voyage of experimentation? Here are a few tips to get you started:

Variety is the spice of life. Mix up your prompts. Ask for facts, stories, predictions, and more. Get a feel for the chatbot's capabilities and adapt your prompts accordingly.

Don't shy away from details. Experiment with different levels of precision in your prompts. Ask for broad information, then narrow it down. See how the chatbot responds to varying degrees of detail.

Play with context. Provide context in some conversations and omit it in others. Observe how the chatbot navigates these different scenarios.

Test its limits. Don't be afraid to push the boundaries. Ask complex questions or request unusual tasks. The results may surprise you!

Lastly, **learn from your interactions.** Each chat with your bot is an opportunity to refine your prompting skills and better understand its strengths and limitations.

Ultimately, engaging with a chatbots is an exploration and an ongoing experiment. It's about asking different questions, varying your approach, and learning as you go. As you keep practicing, you'll learn how to ask for things in the right way to get the results you're looking for. Remember to be patient because it might take some time to become a prompt-writing pro. By sticking with it and approaching AI with curiosity and creativity, you'll discover new possibilities and make the most of AI-powered interactions.

AI Chatbot Academy specializes in chatbot prompting and interaction. This e-book was created and edited utilizing the very techniques included in this e-book. **ChatGPT models 3.5** and **4** were both used to deliver valuable insights into AI prompts.

Join us on this journey as we explore the potential of AI-powered interactions and expand your understanding of the rapidly expanding future of technology at ChatbotAcademy.AI

