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CHAT-GPT



HANDBOOK

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# What's in the guide?

Welcome to the Chat GPT Pro Handbook Guide! This comprehensive guide is designed to help you accelerate your learning of artificial intelligence through the use of Chat GPT, a powerful language model developed by OpenAI.

In this guide, you will learn everything you need to know about using Chat GPT, including prompt methodology, the best prompts to use, and how to apply them to various use cases.

Whether you're a developer looking to integrate Chat GPT into your application, a researcher looking to experiment with language models, or a business looking to improve your customer service, this guide has something for you.

Let's get started...

# What is Chat GPT?

Chat GPT is a powerful language model developed by OpenAI that can understand human language and generate human-like responses to prompts and questions.

It's a type of artificial intelligence that's used for natural language processing tasks, such as answering questions, generating text, or engaging in conversation.

Chat GPT has been trained on a massive amount of data and is constantly learning and improving, making it a valuable tool for developers, researchers, and businesses.

It's essentially a large neural network that's been trained on a massive corpus of text data, such as books, articles, and websites.



# What is Chat GPT?

This training allows Chat GPT to learn the patterns and structures of human language, including grammar, syntax, and semantics.

As a result, it can understand the meaning behind written text and generate responses that are contextually relevant and grammatically correct.

Chat GPT is particularly impressive because it can generate responses that are not just informative, but also engaging and entertaining. It can simulate conversation with a human, and even mimic the style and tone of different writing styles or personalities.

Overall, Chat GPT is a powerful tool for a wide range of applications, including customer service, content creation, and chatbots.

# 5 Use Cases

Use Case 1:

## Master Prompting

Prompting is the process of instructing an AI to do a particular task. Simply put, step one is to learn how to talk to an AI to get it to do what you want.

In summary, prompting is a critical component of AI that enables users to interact with an AI system and achieve their desired outcomes.

By learning how to communicate effectively with an AI system and providing it with comprehensive training data, users can ensure that the AI is capable of accurately interpreting & executing their commands.

# 5 Use Cases

Thankfully, I've found an incredibly valuable (& completely free!) course on instructing AI to do precisely what you want, be that

- writing essays
- solving math problems
- creating art,
- writing code
- or becoming the ultimate coding copilot.

 <https://learnprompting.org/>



By simply going through the following lectures, you will be in 1% of the people who truly use the full power of ChatGPT.



# 5 Use Cases

Use Case 2:

## Become a Better Developer

We all learn differently. Do you prefer learning by watching videos, reading books, listening to podcasts, or diving head-first into practice? Let ChatGPT know about your learning preferences!

You recently learned JavaScript and want to dive into ReactJS, but you're unsure how? Ask ChatGPT. Say something like:

*Prompt*

**I've recently learned JavaScript and want to dive into ReactJS. How do you recommend I learn most efficiently? Provide me with a step-by-step guide and resources**

# 5 Use Cases

What if you're still unsure of how to proceed with learning? That's totally okay; there's one essential thing to remember — you can ask subquestions!

*Prompt*

**Tell me more about the sixth step,” and it will gladly do that for you. Just keep speaking with ChatGPT as if you were speaking with a coding instructor with infinite patience.**

Fantastic, you've become an excellent developer and started writing some code.

But from time to time, you get stuck — we all do! Don't worry; you have a professional bug squasher at your disposal, which brings us to...




# 5 Use Cases

Use Case 3:

## Ask ChatGPT to Help You Fix Bugs

Not sure how to center a div? No problem, ChatGPT knows how to do it. And it even explains its solutions!

Whatever error message you get, just paste it into ChatGPT. Let's say you were working in React & got the

 **Objects are not valid as a React child**

Paste it and add "How to fix" before it

*Prompt*

**How to fix Objects are not valid as a React child**

It gives you a complete explanation of when and how that happens and how to fix it!

# 5 Use Cases

Use Case 4:

## Ask ChatGPT to Generate Assets or Designs for you.

You're developing a website, and your designer didn't provide you with all the assets on time?

No worries, ChatGPT has friends that can generate them for you. Enhance your website with high-quality images by leveraging artistic assets tools like Midjourney or DALL·E 2.0.

However, knowing how to generate the best prompts to achieve the images you desire can be challenging. Fortunately, with ChatGPT4, you can easily ask for help generating effective prompts, allowing you to create stunning images that stand out.



# 5 Use Cases

*Prompt*

**I want you to act as a highly experienced photographer. You will use rich and highly artistic language when describing your photo prompts — the prompt must be one sentence long**

In this case, you could be building a website that fixes developers' bugs automatically, and you need a photo to illustrate the frustration developers experience when encountering bugs.

*Prompt*

**Write a prompt for a photo of a frustrated web developer screaming at his code errors**

For the second prompt, let's say we're looking for a logo for your new developer portfolio. We can write something like:

# 5 Use Cases

*Prompt*

**Write a prompt for a personal developer portfolio logo icon. My initials are J and D.**

Now you know that you can utilize the power of ChatGPT when pairing it with other extraordinary tools.

Finally, with all your new skills, you're ready to start applying for jobs.



# 5 Use Cases

Use Case 5:

## Ask ChatGPT to help you get a job

If you're preparing for a job, ask ChatGPT to write a resume. Give it as much helpful information about yourself as possible, and let it do its job.

*Prompt*

**Write a resume for a following developer:**

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

We get back an incredibly detailed resume that I couldn't have written better myself.

# 5 Use Cases

Now that you have a resume, you can start applying for jobs.

You can browser a LinkedIn jobs and select your preferred job and the copy the job with requirements of specific position

*Prompt*

**Write me a cover letter for the following job post:**

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

In this case, it will make you look like the perfect candidate, because it took all of the knowledge from your resume and took everything that the company needs and it paired it.



# 5 Use Cases

Now, you need to prepare for interview, so what you can do is you can say

*Prompt*

**Act as a professional technical interviewer and ask some questions about React**

And without any hesitation it will question you.

What happens when you don't know the answers of some of these questions?

You can ask unlimited sub-questions, you can say:

*Prompt*

**What is the answer to question number 2?**

And immediately, it's going to give it to you.

# Conclusion

In conclusion, learning ChatGPT effectively will help you:

- Become a Better Developer
- You Fix Bugs
- Generate Assets or Designs
- Get a job

and that's just the beginning.

**ChatGPT can help you in all aspects of your life.**

# Prompt Engineering

The reason why GPT-3 answers differently to the two prompts is likely due to the specific wording of the prompts. When you phrase the question as "Make sure your answer is exactly correct", it implies that the answer must be precise and accurate to a high degree. This could lead the AI to double-check its calculations and provide a more precise answer.

Telling the AI twice to give a correct answer can be helpful in certain situations, such as when the exactness of the answer is important, or when you want to emphasize the importance of accuracy to the AI. However, it is not always necessary or useful to do so, and in some cases, it could lead to redundant or repetitive outputs.



# Useful Code Prompts

## Generate code:

*Prompt*

**Create a [language] script to parse [file format] and extract [information] with the following requirements: [requirements list].**

*Prompt*

**Write a [language] function to filter [data structure] based on [condition] with the following inputs: [input variables] and expected output: [output description].**

*Prompt*

**Implement a [language] function that handles [task] asynchronously with the following inputs: [input variables] and expected output: [output description]**

# Useful Code Prompts

## Code completion:

*Prompt*

**Complete the** [language] **code to parse** [file format] **and extract** [information]: [code snippet]

*Prompt*

**Finish the** [language] **implementation of** [design pattern] **for** [use case]: [code snippet]

*Prompt*

**Complete the** [language] **code to convert** [data structure] **into** [output format]: [code snippet]

# Useful Code Prompts

## Bug detection:

*Prompt*

**Locate any logic errors in the following [language] code snippet: [code snippet]**

*Prompt*

**Review the following [language] code for potential SQL injection vulnerabilities: [code snippet]**

## Code review:

*Prompt*

**Analyze the given [language] code for code smells and suggest improvements: [code snippet]**



# Useful Code Prompts

## Code refactoring:

*Prompt*

**Suggest refactoring improvements for the following [language] code to enhance testability:** [code snippet]

*Prompt*

**Refactor the given [language] code to improve its error handling and resilience:** [code snippet]

*Prompt*

**Propose changes to the given [language] code to follow [SOLID or other design principles] :** [code snippet]

*Prompt*

**Identify opportunities to apply [architecture pattern] in the given [language] code:** [code snippet]

# Useful Code Prompts

## Generating SQL Queries

Prompt

Assume the table names and generate an SQL code to find out Elon Musk's tweets from 2019.

## Explain / Write Regex

Prompt

What exactly does this regex do? `rege(x(es)?|xps?)`

## Change CSS with JavaScript

Prompt

How to use JavaScript to change CSS?