

- env setup. ① A key
② .env file

• Principles of Prompting.

- write clear and specific instructions,
- Give the model time to think

* Principle 1: write clear and specific instructions.

Tactic 1: Use delimites

Triple quotes: """

Triple backticks: ```

Triple dashes: ---

Angle brackets: < >

XML tags: <tag> </tag>

Tactic 2: Ask for structured output

HTML, JSON

Tactic 3: check whether conditions are satisfied check assumptions required to do the task

Tactic 4: Few-shot prompting

Give successful examples of completing tasks
Then ask model to perform the task.

* Principle 2

- Give the model time to think.

Tactic 1: Specify the steps to complete a task

Tactic 2: Instruct the model to work out its own solution before rushing to a conclusion.

' Prompt:

1. First, work on your own solution to the problem.

2. Then, compare your solution to the student's
solution and evaluate if the student's solution is
correct or not

Don't decide the solution if the student's solution
is correct until you have done the problem yourself.

• Model limitations

— Hallucination

Reducing hallucination: First find relevant information, then
answer the question based on the relevant information.

Chapter 3: Iterative

Iterative Prompt Development



Prompt guidelines:

- Be clear and specific
- Analyze why result does not give desired output
- Refine the idea and the prompt
- Repeat
 - * Use at most 50 words
 - * the description is intended for furniture retailer

from IPython.display import display, HTML
display(HTML(response))

Iterative Process

- Try something
- Analyze where the result doesn't give what you want
- clarify instructions, give more time to think
- Refine prompt with a batch of examples

Chapter 4 Summarizing

user cases, Summarizing the online review

Chapter 5 inferring sentiment

You can just let it say it's positive/negative
or you can add "Identify a list of emotions
that the writer of the following review is expressing"

This will generate response like:

happy, satisfied, grateful, impressed, content

Abstract some key values.

Chapter 5 Transforming

translation
Grammar/spelling check

What is APA style

(American Psychological Association)

(研究论文撰写格式)

Chapter 6 Expanding

使用场景:

Customer review →

提取 review in sentiment

→ Positive

→ Negative

temperature (randomness)

top_p

Chapter 7 chat bot

chat completion