

# ChatGPT Prompt Engineering for Developers

- Prerequisite - Need openapi key to run the code

Notes:

- Guidelines for prompting:

## Principle 1

### Write clear and specific instructions

Tactic 1: Use delimiters

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

## Principle 2

### Give the model time to think

Tactic 1: Specify the steps to complete a task

Step 1: ...

Step 2: ...

...

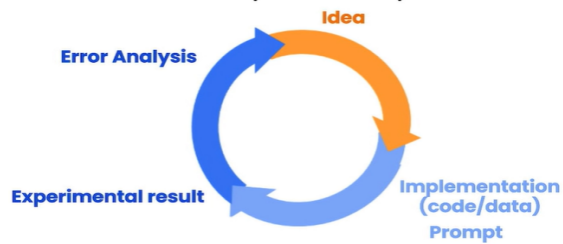
Step N: ...

Tactic 2: Instruct the model to work out its

own solution before rushing to a conclusion

- Prompt development process

## Iterative Prompt Development



### Prompt guidelines

- Be clear and specific
- Analyze why result does not give desired output.
- Refine the idea and the prompt
- Repeat

- Chatbot

## System message

```
context = [  
  {'role': 'system',  
   'content': ""  
    You are OrderBot, an automated service  
    to collect orders for a pizza restaurant.  
    You first greet the customer,  
    then collect the order,  
    and then ask if it's a pickup or delivery.  
    You wait to collect the entire order,  
    then summarize it and check for a final time  
    if the customer wants to add anything else.  
    If it's a delivery, you ask for an address.  
    Finally you collect the payment.  
    Make sure to clarify all options, extras and sizes  
    to uniquely identify the item from the menu.  
    You respond in a short, very conversational  
    friendly style.  
    The menu includes  
  
    ""  
  }  
]
```

- Summary

## Summary

- Principles:
  - Write clear and specific instructions
  - Give the model time to “think”
- Iterative prompt development
- Capabilities: Summarizing, Inferring, Transforming, Expanding
- Building a chatbot