

Prompts in LangChain

22 May 2025 22:24

What are Prompts

10 January 2025 08:37

Prompts are the input instructions or queries given to a model to guide its output.

```
from langchain_openai import ChatOpenAI
from dotenv import load_dotenv

load_dotenv()

model = ChatOpenAI(model='gpt-4', temperature=1.5, max_completion_tokens=10)

result = model.invoke("Write a 5 line poem on cricket")

print(result.content)
```

Prompt Template

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A **PromptTemplate** in LangChain is a structured way to create prompts dynamically by inserting variables into a predefined template. Instead of hardcoding prompts, PromptTemplate allows you to define placeholders that can be filled in at runtime with different inputs.

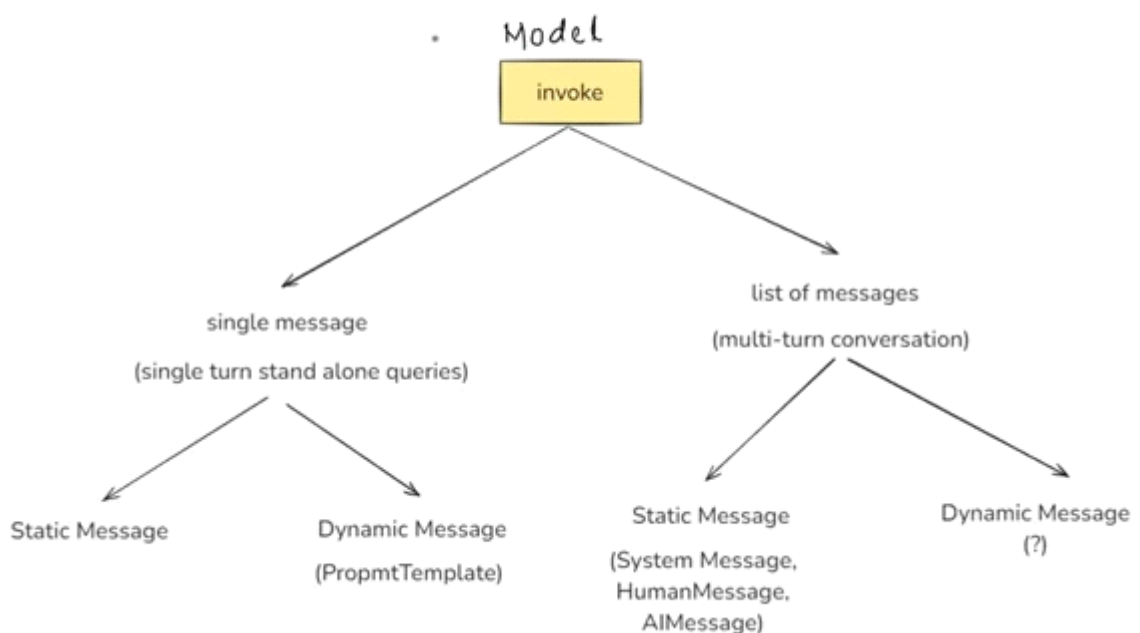
This makes it reusable, flexible, and easy to manage, especially when working with dynamic user inputs or automated workflows.

Why use PromptTemplate over f strings?

1. Default validation
2. Reusable
3. LangChain Ecosystem

Chat Prompt Templates

14 February 2025 00:02



A `MessagesPlaceholder` in LangChain is a special placeholder used inside a `ChatPromptTemplate` to dynamically insert chat history or a list of messages at runtime.