


LangChain Prompt Template Comparison

Shared by Harsha

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H what is difference between langchain's prompttemplate and the chatprompt template.
In what situation we should use chatprompttemplate?

The main differences between LangChain's `PromptTemplate` and `ChatPromptTemplate` relate to how they handle conversation structure and message formatting:

PromptTemplate

- Designed for simple, single-turn text completion scenarios
- Works with basic string templates that get formatted with variables
- Produces a single string output that's sent directly to the model
- Best suited for traditional completion models or simple question-answering

```
python
```

```
from langchain.prompts import PromptTemplate

template = "What is the capital of {country}?"
prompt = PromptTemplate(template=template, input_variables=["country"])
formatted = prompt.format(country="France")
# Output: "What is the capital of France?"
```

ChatPromptTemplate

- Designed specifically for chat-based conversations with multiple message types
- Handles structured conversations with different message roles (system, human, assistant)
- Produces a list of message objects rather than a single string
- Maintains conversation context and message hierarchy

```
python
```

```
from langchain.prompts import Start your own conversation sagePromptTemplate, HumanMessage
```