

Chat prompt templates

Given the importance of chat models in many LLM applications, LangChain provides functionality for creating prompt templates to structure messages to different chat *roles*.

The ChatPromptTemplate class has already been imported for you, and an LLM has already been defined.

Instructions

100 XP

- Assign appropriate roles to the messages provided and convert them into a *chat prompt template*.
- Create an LCEL chain and invoke it with the input provided.

script.py

```
llm = ChatOpenAI(model="gpt-4o-mini", api_key='<OPENAI_API_TOKEN>')

# Create a chat prompt template
prompt_template = ChatPromptTemplate.from_messages(
    [
        ("system", "You are a geography expert that returns the colors\npresent in a country's flag."),
        ("human", "France"),
        ("ai", "blue, white, red"),
        ("human", "{country}")
    ]
)

# Chain the prompt template and model, and invoke the chain
llm_chain = prompt_template | llm

country = "Japan"
response = llm_chain.invoke({"country": country})
print(response.content)
```

