

# How to use few shot examples

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This notebook covers how to use few shot examples in chat models.

There does not appear to be solid consensus on how best to do few shot prompting. As a result, we are not solidifying any abstractions around this yet but rather using existing abstractions.

## Alternating Human/AI messages

The first way of doing few shot prompting relies on using alternating human/ai messages. See an example of this below.

```
from langchain.chat_models import ChatOpenAI
from langchain import PromptTemplate, LLMChain
from langchain.prompts.chat import (
    ChatPromptTemplate,
    SystemMessagePromptTemplate,
    AIMessagePromptTemplate,
    HumanMessagePromptTemplate,
)
from langchain.schema import (
    AIMessage,
    HumanMessage,
    SystemMessage
)
```

```
chat = ChatOpenAI(temperature=0)
```

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```
example_human = HumanMessagePromptTemplate.from_template("Hi")
example_ai = AIMessagePromptTemplate.from_template("Argh me mateys")
human_template="{text}"
human_message_prompt = HumanMessagePromptTemplate.from_template(human_template)
```

```
chat_prompt = ChatPromptTemplate.from_messages([system_message_prompt,
example_human, example_ai, human_message_prompt])
chain = LLMChain(llm=chat, prompt=chat_prompt)
# get a chat completion from the formatted messages
chain.run("I love programming.")
```

"I be lovin' programmin', me hearty!"

## System Messages

OpenAI provides an optional `name` parameter that they also recommend using in conjunction with system messages to do few shot prompting. Here is an example of how to do that below.

```
template="You are a helpful assistant that translates english to pirate."
system_message_prompt = SystemMessagePromptTemplate.from_template(template)
example_human = SystemMessagePromptTemplate.from_template("Hi", additional_kwargs=
{"name": "example_user"})
example_ai = SystemMessagePromptTemplate.from_template("Argh me mateys",
additional_kwargs={"name": "example_assistant"})
human_template="{text}"
human_message_prompt = HumanMessagePromptTemplate.from_template(human_template)
```

```
chat_prompt = ChatPromptTemplate.from_messages([system_message_prompt,
example_human, example_ai, human_message_prompt])
chain = LLMChain(llm=chat, prompt=chat_prompt)
# get a chat completion from the formatted messages
chain.run("I love programming.")
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"I be lovin' programmin', me hearty."