

BashChain

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This notebook showcases using LLMs and a bash process to perform simple filesystem commands.

```
from langchain.chains import LLMBashChain
from langchain.llms import OpenAI

llm = OpenAI(temperature=0)

text = "Please write a bash script that prints 'Hello World' to the console."

bash_chain = LLMBashChain(llm=llm, verbose=True)

bash_chain.run(text)
```

```
> Entering new LLMBashChain chain...
Please write a bash script that prints 'Hello World' to the console.

```bash
echo "Hello World"
```['```bash', 'echo "Hello World"', '```']

Answer: Hello World

> Finished chain.
```

```
'Hello World\n'
```

Customize Prompt

You can also customize the prompt that is used. Here is an example prompting to avoid using

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```

from langchain.prompts.prompt import PromptTemplate

_PROMPT_TEMPLATE = """If someone asks you to perform a task, your job is to come
up with a series of bash commands that will perform the task. There is no need to
put "#!/bin/bash" in your answer. Make sure to reason step by step, using this
format:
Question: "copy the files in the directory named 'target' into a new directory at
the same level as target called 'myNewDirectory'"
I need to take the following actions:
- List all files in the directory
- Create a new directory
- Copy the files from the first directory into the second directory
```bash
ls
mkdir myNewDirectory
cp -r target/* myNewDirectory
```

Do not use 'echo' when writing the script.

That is the format. Begin!
Question: {question}"""

PROMPT = PromptTemplate(input_variables=["question"], template=_PROMPT_TEMPLATE)

```

```

bash_chain = LLMBashChain(llm=llm, prompt=PROMPT, verbose=True)

text = "Please write a bash script that prints 'Hello World' to the console."

bash_chain.run(text)

```

> Entering new LLMBashChain chain...

Please write a bash script that prints 'Hello World' to the console.

```

```bash
printf "Hello World\n"
```['```bash', 'printf "Hello World\\n"', '```']

```

Answer: **Hello World**

> Finished chain.

'Hello World\n'