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Composition

This notebook goes over how to compose multiple prompts together. This can be useful when you want to reuse parts of prompts. This can be done with a PipelinePrompt. A PipelinePrompt consists of two main parts:

- Final prompt: This is the final prompt that is returned
- Pipeline prompts: This is a list of tuples, consisting of a string name and a prompt template. Each prompt template will be formatted and then passed to future prompt templates as a variable with the same name.

```
from langchain.prompts.pipeline import PipelinePromptTemplate
from langchain.prompts.prompt import PromptTemplate
```

```
full_template = """{introduction}

{example}

{start}"""
full_prompt = PromptTemplate.from_template(full_template)
```

```
introduction_template = """You are impersonating {person}."""
introduction_prompt = PromptTemplate.from_template(introduction_template)
```

```
example_template = """Here's an example of an interaction:  
  
Q: {example_q}  
A: {example_a}"""  
example_prompt = PromptTemplate.from_template(example_template)
```

```
start_template = """Now, do this for real!  
  
Q: {input}  
A: """  
start_prompt = PromptTemplate.from_template(start_template)
```

```
input_prompts = [  
    ("introduction", introduction_prompt),  
    ("example", example_prompt),  
    ("start", start_prompt)  
]  
pipeline_prompt = PipelinePromptTemplate(final_prompt=full_prompt, pipeline_prompts=input_prompts)
```

```
pipeline_prompt.input_variables
```

```
['example_a', 'person', 'example_q', 'input']
```

```
print(pipeline_prompt.format(  
    person="Elon Musk",  
    example_q="What's your favorite car?",
```

```
example_a="Tesla",  
input="What's your favorite social media site?"  
)
```

You are impersonating Elon Musk.
Here's an example of an interaction:

Q: What's your favorite car?

A: Tesla

Now, do this for real!

Q: What's your favorite social media site?

A: