Modules

Callbacks

Logging to file

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This example shows how to print logs to file. It shows how to use the <code>FileCallbackHandler</code>, which does the same thing as <code>StdOutCallbackHandler</code>, but instead writes the output to file. It also uses the <code>loguru</code> library to log other outputs that are not captured by the handler.

```
from loguru import logger
from langchain.callbacks import FileCallbackHandler
from langchain.chains import LLMChain
from langchain.llms import OpenAI
from langchain.prompts import PromptTemplate
logfile = "output.log"
logger.add(logfile, colorize=True, enqueue=True)
handler = FileCallbackHandler(logfile)
llm = OpenAI()
prompt = PromptTemplate.from_template("1 + {number} = ")
# this chain will both print to stdout (because verbose=True) and write to
'output.log'
# if verbose=False, the FileCallbackHandler will still write to
'output.log'
chain = LLMChain(llm=llm, prompt=prompt, callbacks=[handler],
verbose=True)
answer = chain.run(number=2)
logger.info(answer)
```

API Reference:

- FileCallbackHandler from langchain.callbacks
- LLMChain from langchain.chains
- OpenAl from langchain.llms
- PromptTemplate from langchain.prompts

Now we can open the file output.log to see that the output has been captured.

```
pip install ansi2html > /dev/null
```

```
from IPython.display import display, HTML
from ansi2html import Ansi2HTMLConverter

with open("output.log", "r") as f:
    content = f.read()

conv = Ansi2HTMLConverter()
html = conv.convert(content, full=True)

display(HTML(html))
```

```
.body_foreground { color: #AAAAAA; }
body_background { background-color: #000000; }
inv_foreground { color: #000000; }
inv_background { background-color: #AAAAAA; }
.ansi1 { font-weight: bold; }
.ansi3 { font-style: italic; }
ansi32 { color: #00aa00; }
ansi36 { color: #00aaaa; }
</style>
</head>
<body class="body_foreground body_background" style="font-size: normal;" >
<span class="ansi1">&gt; Entering new LLMChain chain...
Prompt after formatting:
<span class="ansi1 ansi32"></span><span class="ansi1 ansi3 ansi32">1 + 2 =
</span>
<span class="ansi1">&gt; Finished chain.</span>
<span class="ansi32">2023-06-01 18:36:38.929</span> | <span</pre>
                    </span> | <span class="ansi36">__main__</span>:<span
class="ansi1">INFO
class="ansi36"><module&gt;</span>:<span class="ansi36">20</span> -
<span class="ansi1">
3</span>
</body>
</html>
```