



Tools as OpenAI Functions

This notebook goes over how to use LangChain tools as OpenAI functions.

```
from langchain.chat_models import ChatOpenAI
from langchain.schema import HumanMessage
```

API Reference:

- `ChatOpenAI` from `langchain.chat_models`
- `HumanMessage` from `langchain.schema`

```
model = ChatOpenAI(model="gpt-3.5-turbo-0613")
```

```
from langchain.tools import MoveFileTool, format_tool_to_openai_function
```

API Reference:

- `MoveFileTool` from `langchain.tools`
- `format_tool_to_openai_function` from `langchain.tools`

```
tools = [MoveFileTool()]
functions = [format_tool_to_openai_function(t) for t in tools]
```

```
message = model.predict_messages(
    [HumanMessage(content="move file foo to bar")], functions=functions
)
```

```
message
```



```
AIMessage(content='', additional_kwargs={'function_call': {'name':  
'move_file', 'arguments': '{\n  "source_path": "foo",\n  "destination_path": "bar"\n}'}}}, example=False)
```

```
message.additional_kwargs["function_call"]
```

```
{'name': 'move_file',  
 'arguments': '{\n  "source_path": "foo",\n  "destination_path":  
  "bar"\n}'}
```