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# XML Agent

Some language models (like Anthropic's Claude) are particularly good at reasoning/writing XML. This goes over how to use an agent that uses XML when prompting.

```
from langchain.agents import XMLAgent, tool, AgentExecutor
from langchain.chat_models import ChatAnthropic
from langchain.chains import LLMChain
```

**API Reference:**

- XMLAgent from `langchain.agents`
- tool from `langchain.agents`
- AgentExecutor from `langchain.agents`
- ChatAnthropic from `langchain.chat_models`
- LLMChain from `langchain.chains`

```
model = ChatAnthropic(model="claude-2")
```

```
@tool
def search(query: str) -> str:
    """Search things about current events."""
    return "32 degrees"
```

```
tool_list = [search]
```

```
chain = LLMChain(
    llm=model,
    prompt=XMLAgent.get_default_prompt(),
    output_parser=XMLAgent.get_default_output_parser()
)
agent = XMLAgent(tools=tool_list, llm_chain=chain)
```

```python
agent_executor = AgentExecutor(agent=agent, tools=tool_list, verbose=True)
```

```python
agent_executor.run("whats the weather in New york?")
```

```
> Entering new AgentExecutor chain...
 <tool>search</tool>
<tool_input>weather in New York32 degrees

<final_answer>The weather in New York is 32 degrees

> Finished chain.



'The weather in New York is 32 degrees'
```