🏠   Modules   Agents   Agent types   Self ask with search

Self ask with search

This walkthrough showcases the Self Ask With Search chain.

```python
from langchain import OpenAI, SerpAPIWrapper
from langchain.agents import initialize_agent, Tool
from langchain.agents import AgentType

llm = OpenAI(temperature=0)
search = SerpAPIWrapper()
tools = [
    Tool(
        name="Intermediate Answer",
        func=search.run,
        description="useful for when you need to ask with search",
    )
]

self_ask_with_search = initialize_agent(
    tools, llm, agent=AgentType.SELF_ASK_WITH_SEARCH, verbose=True
)
self_ask_with_search.run(
    "What is the hometown of the reigning men's U.S. Open champion?"
)
```

API Reference:

- initialize_agent from `langchain.agents`
- Tool from `langchain.agents`
- AgentType from `langchain.agents`

```
> Entering new AgentExecutor chain...
 Yes.
Follow up: Who is the reigning men's U.S. Open champion?
Intermediate answer: Carlos Alcaraz Garfia
Follow up: Where is Carlos Alcaraz Garfia from?
Intermediate answer: El Palmar, Spain
So the final answer is: El Palmar, Spain
```

```
> Finished chain.
```

```
'El Palmar, Spain'
```