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# Self Ask With Search

This notebook showcases the Self Ask With Search chain.

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

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="self-ask-with-search",
verbose=True)
self_ask_with_search.run("What is the hometown of the reigning men's U.S. Open
champion?")
```

> Entering new AgentExecutor chain...

Yes.

Follow up: Who is the reigning men's U.S. Open champion?

Intermediate answer: Carlos Alcaraz won the 2022 Men's single title while Poland's Iga Swiatek won the Women's single title defeating Tunisian's Ons Jabeur.

Follow up: Where is Carlos Alcaraz from?

Intermediate answer: El Palmar, Spain

So the final answer is: El Palmar, Spain

> Finished AgentExecutor chain.

'El Palmar, Spain'