Google Serper API

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This notebook goes over how to use the Google Serper component to search the web. First you need to sign up for a free account at serper.dev and get your api key.

```
import os
  os.environ["SERPER_API_KEY"] = ""

from langchain.utilities import GoogleSerperAPIWrapper

search = GoogleSerperAPIWrapper()

search.run("Obama's first name?")

'Barack Hussein Obama II'
```

As part of a Self Ask With Search Chain

```
from langchain.utilities import GoogleSerperAPIWrapper
from langchain.llms.openai import OpenAI
from langchain.agents import initialize_agent, Tool

llm = OpenAI(temperature=0)
```

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```
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: Current champions Carlos Alcaraz, 2022 men's singles champion.
Follow up: Where is Carlos Alcaraz from?
Intermediate answer: El Palmar, Spain
So the final answer is: El Palmar, Spain
> Finished chain.
```

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