OpenAI Agent Tools

Bayram Annakov, onsa.ai

Agenda

- New tools
  - Web Search
  - Computer Use
  - File Search
- Agents SDK
- Observability

Tools

Web Search

“LLM + Google”

- Similar to Perplexity Sonar or LLM + serper tool
- Very expensive
- NB: This tool does not support zero data retention or data residency

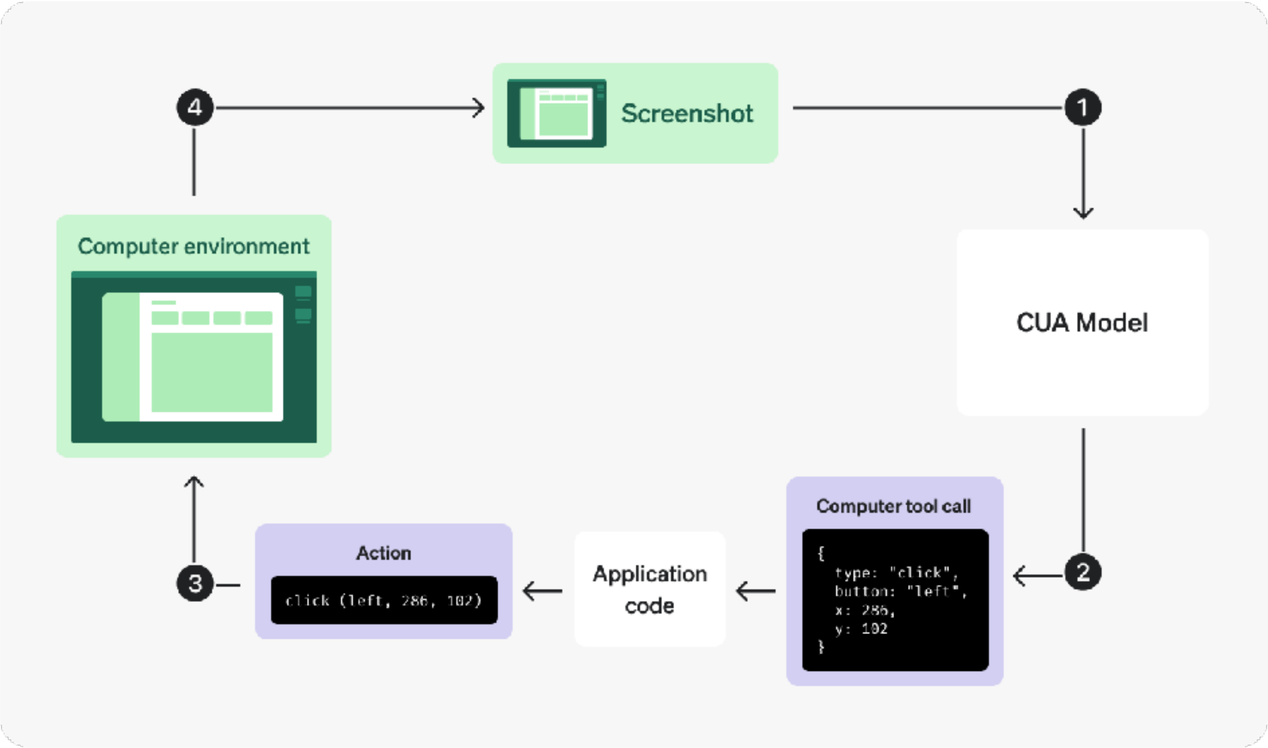
```python
response = client.responses.create(
    model="gpt-4o",
    tools=[{"type": "web_search_preview"}],
    input="Last week news in Johor Bahru"
)

print(response.output_text)
# Print URL citations from the response
for output in response.output:
    if hasattr(output, 'content'):
        for content_item in output.content:
            if hasattr(content_item, 'annotations'):
                for annotation in content_item.annotations:
                    if annotation.type == 'url_citation':
                        print(f"Citation: {annotation.title}")
                        print(f"URL: {annotation.url}")
                        print("-" * 50)
```

Computer Tool

Operator as API

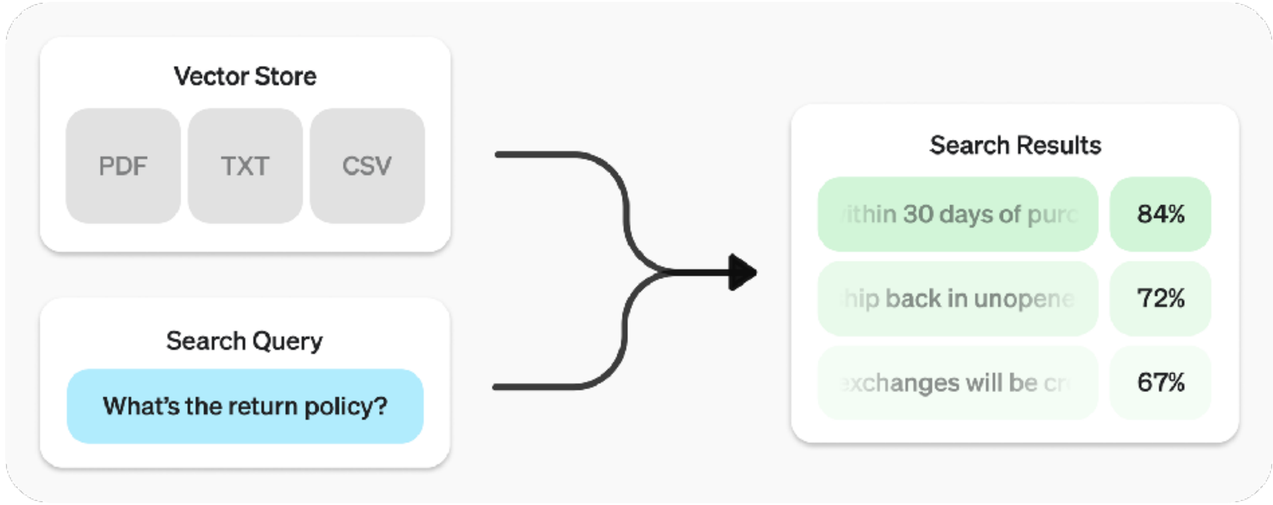
- Tech that powers OpenAI Operator
- Similar to browser-use
- You can use local browser or VM
- Sample app: https://github.com/openai/openai-cua-sample-app
- Recommended for browsers (38.1% on OSWorld)
- No zero data retention support



File Search

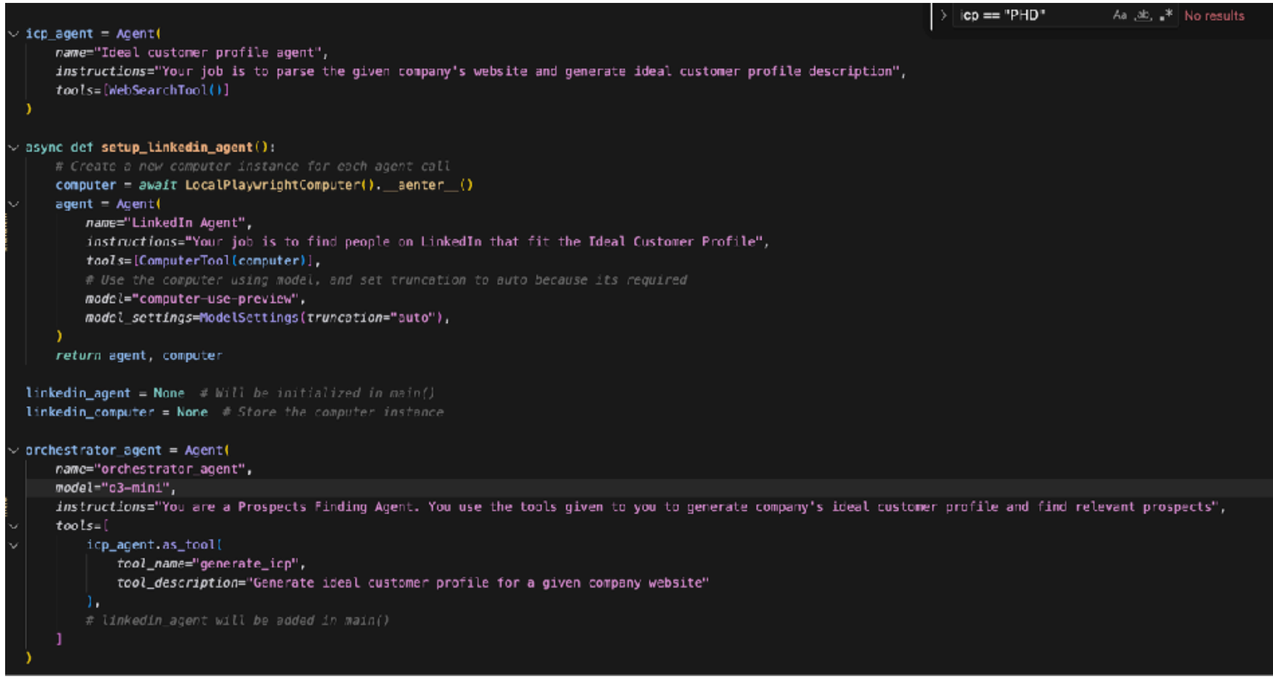
RAG as API

- Similar to Assistants API
- Combine text search with semantic search
- Has query-rewrite setting
- Supports attribute filtering & reranking
- Kinda expensive ($0.1 per GB **per day**)



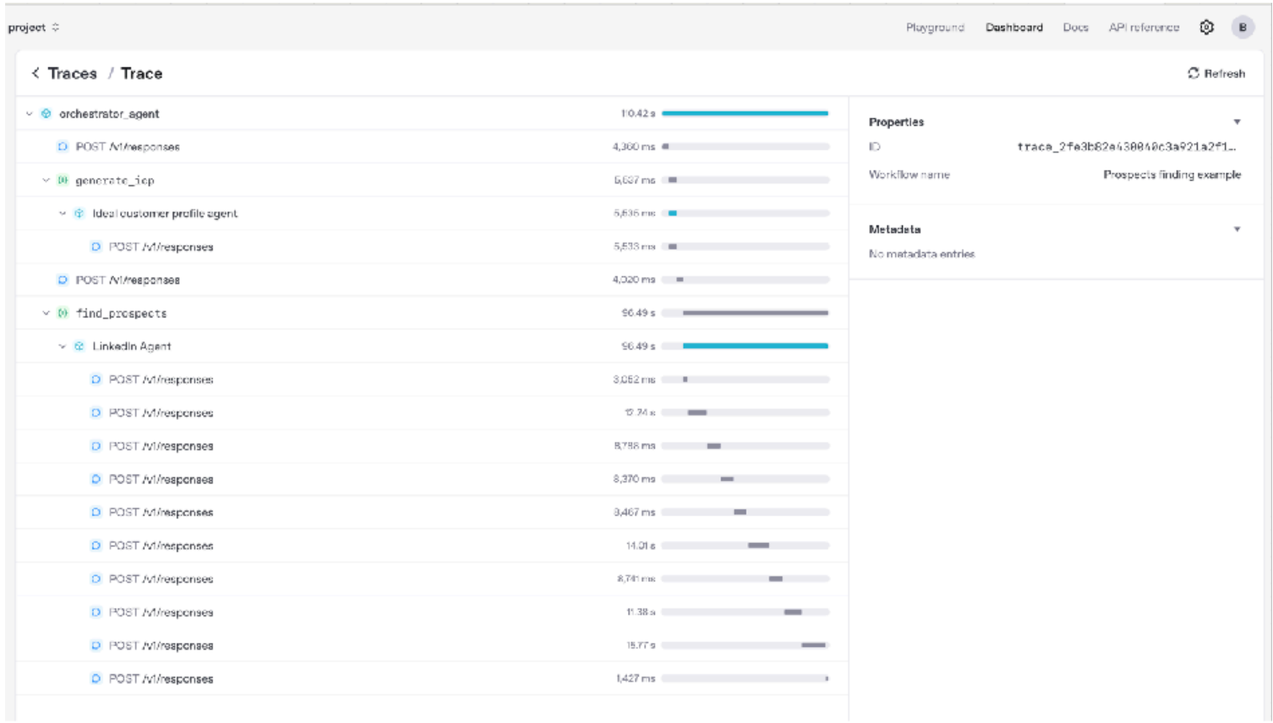
Agents SDK

- Reminds CrewAI
- Liked “agent as tool” feature
- Vendor lock-in attempt?
- Make sure to use o-models (o3-mini works great)



Observability

- Reminds Langfuse, but less powerful
- Works out-of-the-box, does not require any configuration



Final Thoughts

- Strong focus on AI Agents
- Attempt to lock developers in
- Expensive (for now)

Q&A