Agent Visualization

Agent visualization allows you to generate a structured graphical representation of agents and their relationships using **Graphviz**. This is useful for understanding how agents, tools, and handoffs interact within an application.

Installation

Install the optional `viz` dependency group:

```
pip install "openai-agents[viz]"
```

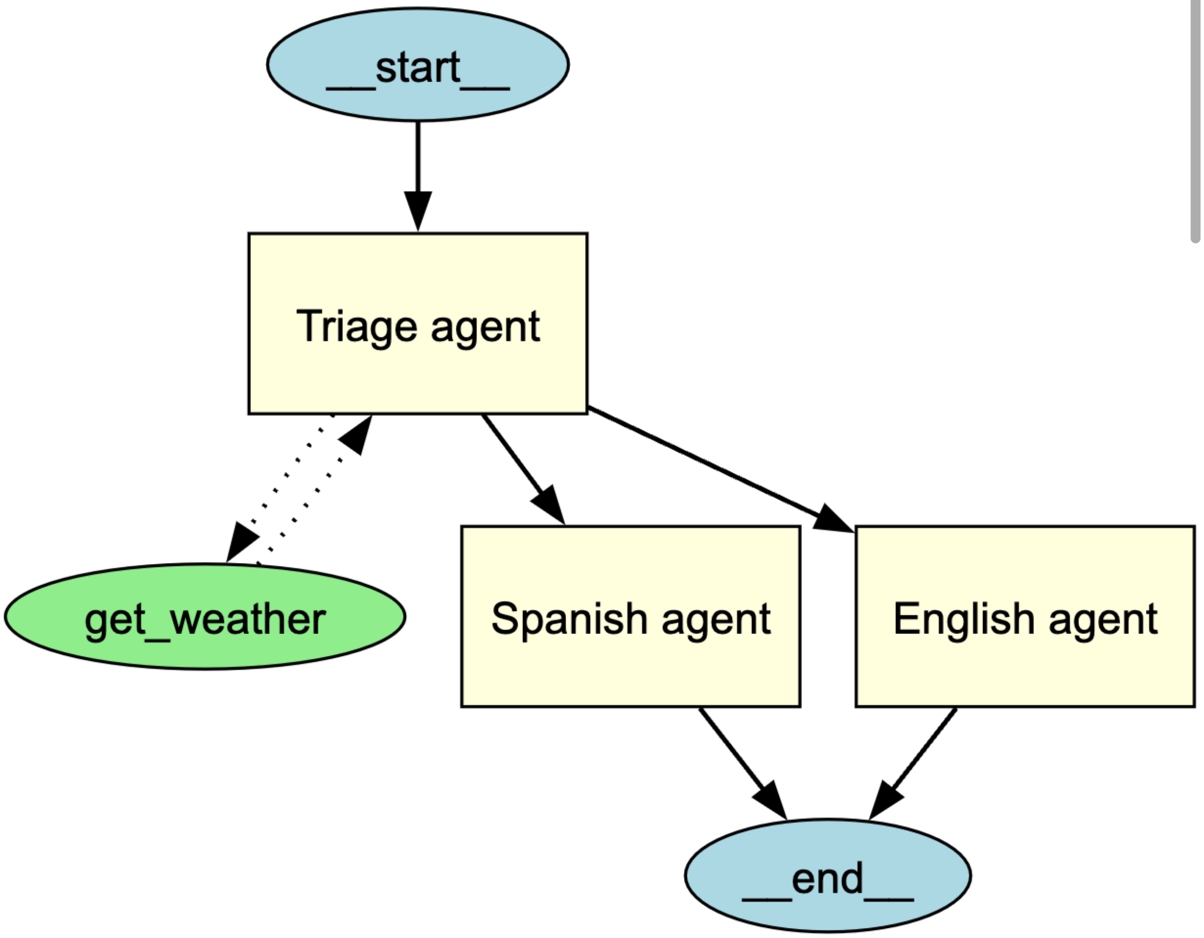
Generating a Graph

You can generate an agent visualization using the `draw_graph` function. This function creates a directed graph where:

- **Agents** are represented as yellow boxes.
- **Tools** are represented as green ellipses.
- **Handoffs** are directed edges from one agent to another.

Example Usage

```
from agents import Agent, function_tool
from agents.extensions.visualization import draw_graph

@function_tool
def get_weather(city: str) -> str:
    return f"The weather in {city} is sunny."

spanish_agent = Agent(
    name="Spanish agent",
    instructions="You only speak Spanish.",
)

english_agent = Agent(
    name="English agent",
    instructions="You only speak English",
)

triage_agent = Agent(
    name="Triage agent",
    instructions="Handoff to the appropriate agent based on the language of the request.",
    handoffs=[spanish_agent, english_agent],
    tools=[get_weather],
)

draw_graph(triage_agent)
```



This generates a graph that visually represents the structure of the **triage agent** and its connections to sub-agents and tools.

Understanding the Visualization

The generated graph includes:

- A **start node** (`__start__`) indicating the entry point.
- Agents represented as **rectangles** with yellow fill.
- Tools represented as **ellipses** with green fill.

- Directed edges indicating interactions:
- **Solid arrows** for agent-to-agent handoffs.
- **Dotted arrows** for tool invocations.
- An **end node** (`__end__`) indicating where execution terminates.

Customizing the Graph

Showing the Graph

By default, `draw_graph` displays the graph inline. To show the graph in a separate window, write the following:

```
draw_graph(triage_agent).view()
```

Saving the Graph

By default, `draw_graph` displays the graph inline. To save it as a file, specify a filename:

```
draw_graph(triage_agent, filename="agent_graph")
```

This will generate `agent_graph.png` in the working directory.