



## Tool Usage in Kani

#### Provide Plain Python Code to Models

 Tools are written as plain Python methods and decorated with the special @ai function decorator  In this example, we give a model access to a real-time weather API

```
class WeatherKani(Kani):
 @ai function()
 def get_weather(self, loc: Annotated[str,
   AIParam(desc="The desired city")]):
    """Get the weather in a given location."""
   # ... Query some weather API
    return weather
engine = OpenAIEngine(api_key, model="gpt-4")
chat_in_terminal(WeatherKani(engine))
# USER: What's the weather in San Francisco?
# AI: [get_weather({"loc": "San Francisco"})]
# T00L: {"temp": 72, ...}
```

# AI: It's currently 72F in San Francisco.

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# Tool Prompting

ReAct et al

```
USER: What's the weather in Philly?
Thought 1: To find the weather, I should
use the provided get_weather tool.
  Philadelphia is in the United States,
which uses Fahrenheit to measure
temperature.
Action 1: get_weather[Philadelphia,
Fahrenheit]
Observation 1: cloudy; 75F
Thought 2: I now know the weather in
Philadelphia.
Action 2: Finish[It's currently 75F and
cloudy in Philadelphia, PA.]
```