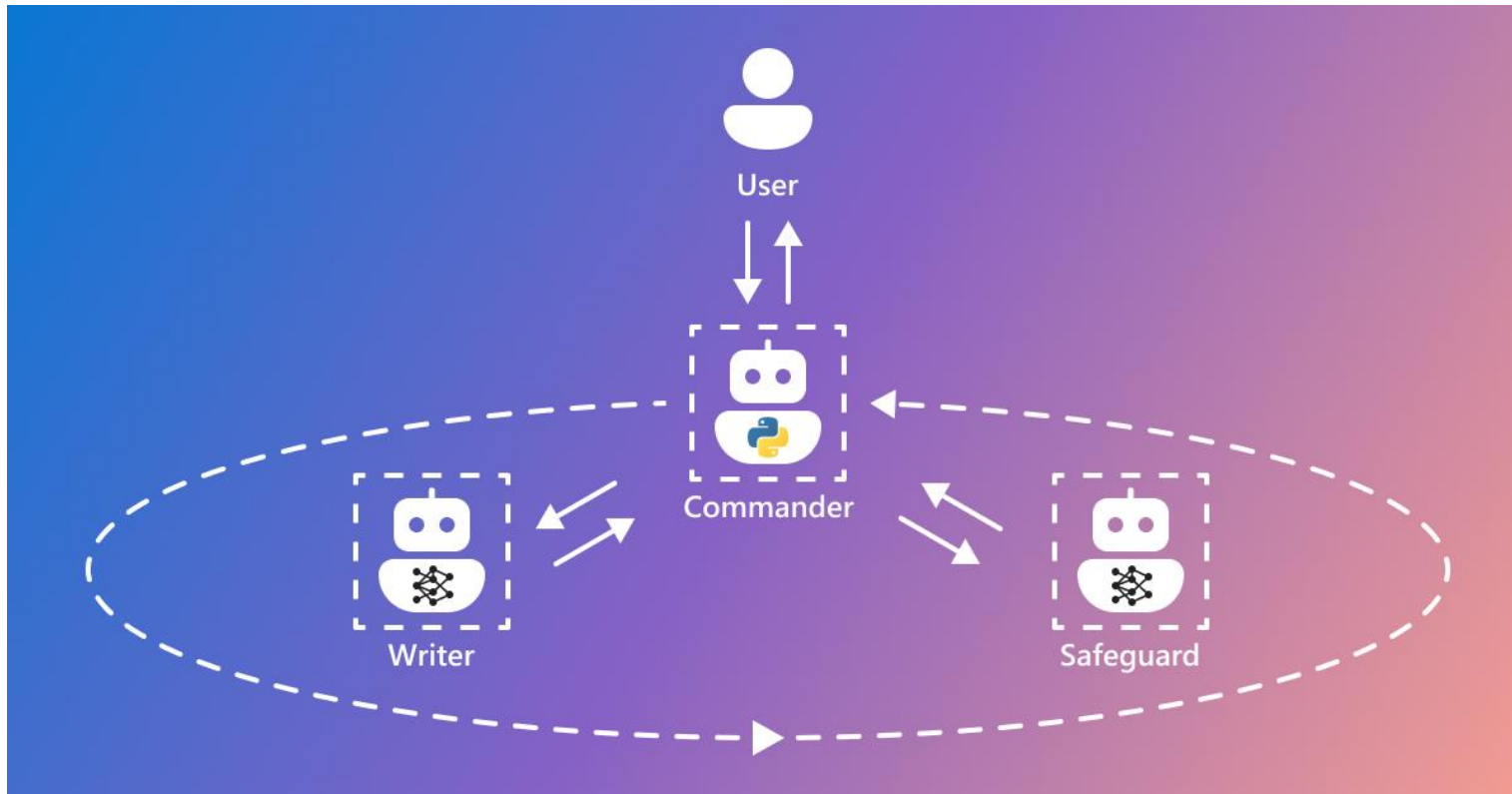# AutoGen

AutoGen

자율적으로 행동하거나 인간과 함께 작업할 수 있는 다중 에이전트 AI 애플리케이션을 만드는 프레임워크
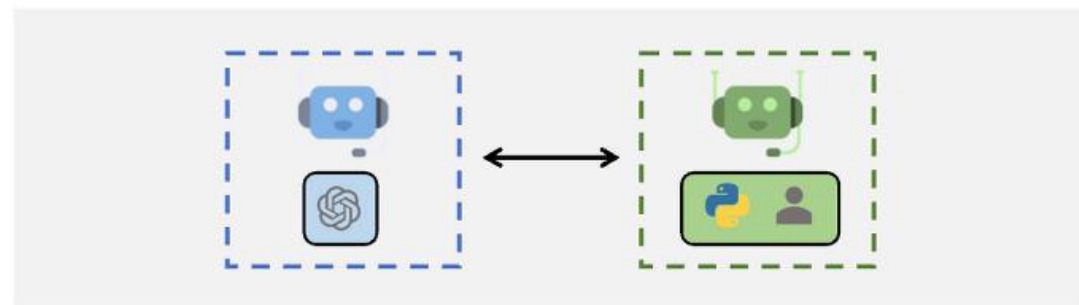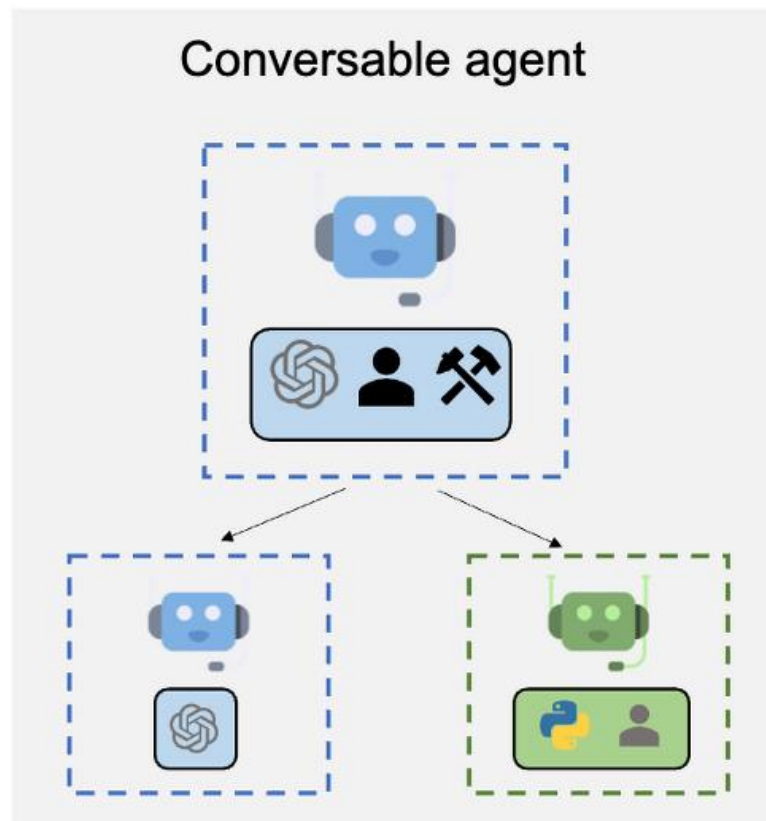
■ 참고 : [논문 리뷰] AutoGen: Enabling Next-Gen LLM Applications via Multi-Agent Conversation

AutoGen 에코시스템

다중 에이전트 워크플로를 만드는 데 필요한 프레임워크, 개발자 도구, 애플리케이션을 제공
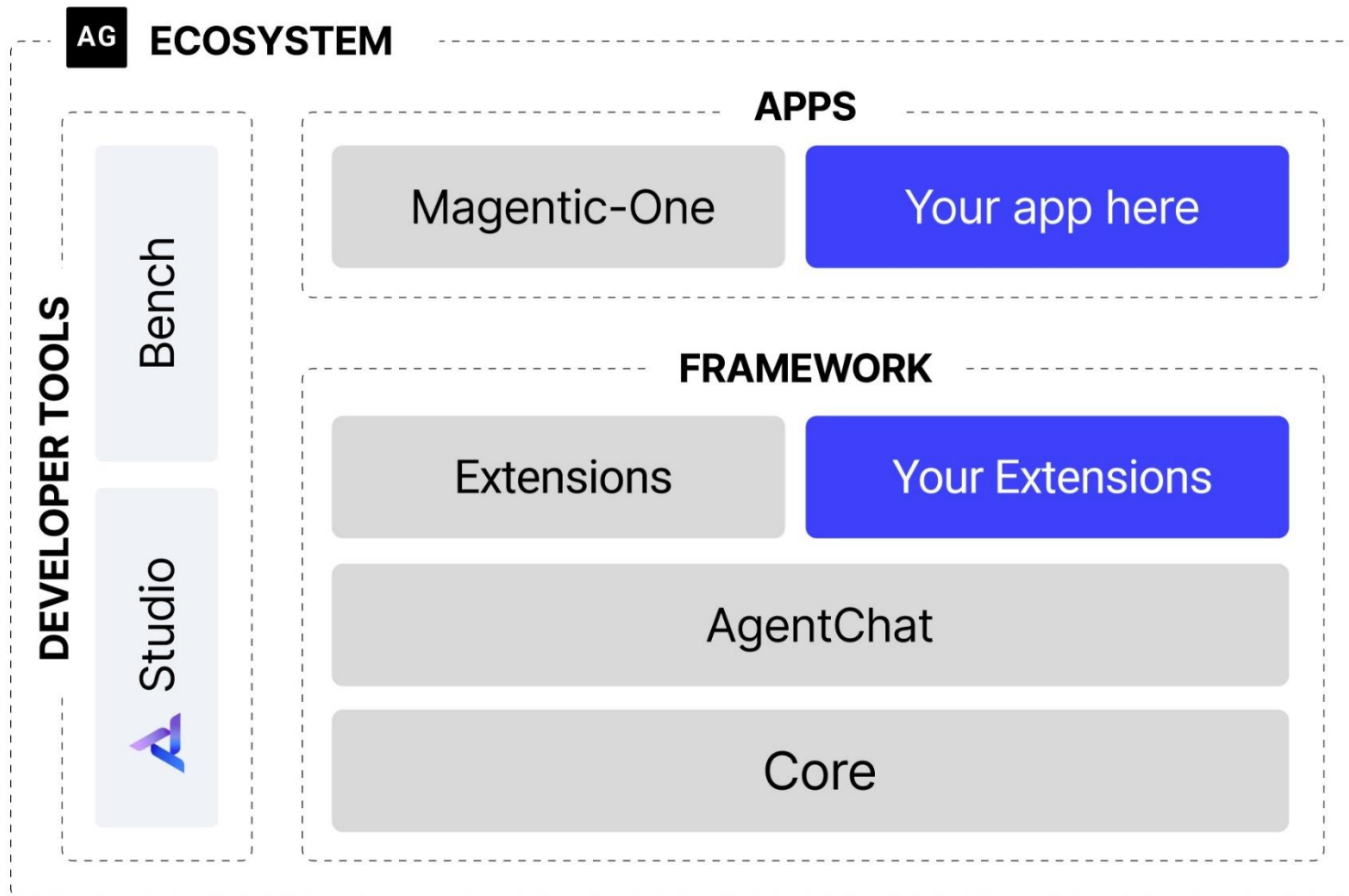
AutoGen Studio

AI 에이전트를 빠르게 프로토타이핑 할 수 있도록 구축된 No-code GUI

https://github.com/microsoft/autogen/tree/main/python/packages/autogen-studio

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AutoGen v0.4 Migration

기존 pyautogen 패키지는 0.2.34 버전 이후로 Microsoft에서 더 이상 제공되지 않고 버전 업그레이드를 적극 권장함

AutoGen 설치

■ AutoGen 설치

```
# Install AgentChat and OpenAI client from Extensions
pip install -U "autogen-agentchat" "autogen-ext[openai]"


# Install AutoGen Studio for no-code GUI
pip install -U "autogenstudio"
```

■ AutoGen Studio 실행

```
# Run AutoGen Studio on http://localhost:8080

autogenstudio ui --port 8080 --appdir ./my-app
```

AutoGen Tutorial

🧠 Models

How to use LLM model clients

✉ Messages

Understand the message types

🤖 Agents

Work with AgentChat agents and get started with `AssistantAgent`

🔀 Teams

Work with teams of agents and get started with `RoundRobinGroupChat`.

👥 Human-in-the-Loop

Best practices for providing feedback to a team

⬤ Termination

Control a team using termination conditions

</> Custom Agents

Create your own agents

🗄 Managing State

Save and load agents and teams for persistent sessions

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AutoGen 실습 autogen_travel_planning.ipynb

■ Example

Travel Planning

Generating a travel plan using multiple agents.

Company Research

Generating a company research report using multiple agents with tools.

Literature Review

Generating a literature review using agents with tools.

Thank you