

AutoGen: Enabling Next-Gen LLM Applications via Multi-Agent Conversation

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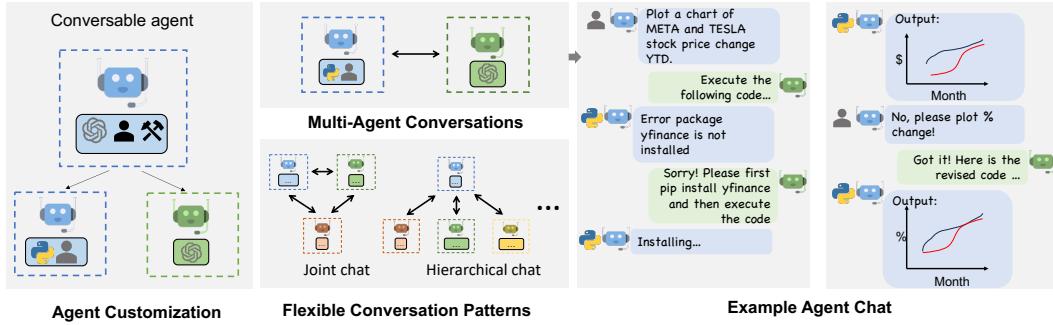


Figure 1: AutoGen enables diverse LLM-based applications using multi-agent conversations. (Left) AutoGen agents are conversable, customizable, and can be based on LLMs, tools, humans, or even a combination of them. (Top-middle) Agents can converse to solve tasks. (Right) They can form a chat, potentially with humans in the loop. (Bottom-middle) The framework supports flexible conversation patterns.

Abstract

AutoGen² is an open-source framework that allows developers to build LLM applications via multiple *agents* that can converse with each other to accomplish tasks. AutoGen agents are customizable, *conversable*, and can operate in various modes that employ combinations of LLMs, human inputs, and tools. Using AutoGen, developers can also flexibly define agent interaction behaviors. Both natural language and computer code can be used to program flexible conversation patterns for different applications. AutoGen serves as a generic framework for building diverse applications of various complexities and LLM capacities. Empirical studies demonstrate the effectiveness of the framework in many example applications, with domains ranging from mathematics, coding, question answering, operations research, online decision-making, entertainment, etc.

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²<https://github.com/microsoft/autogen>

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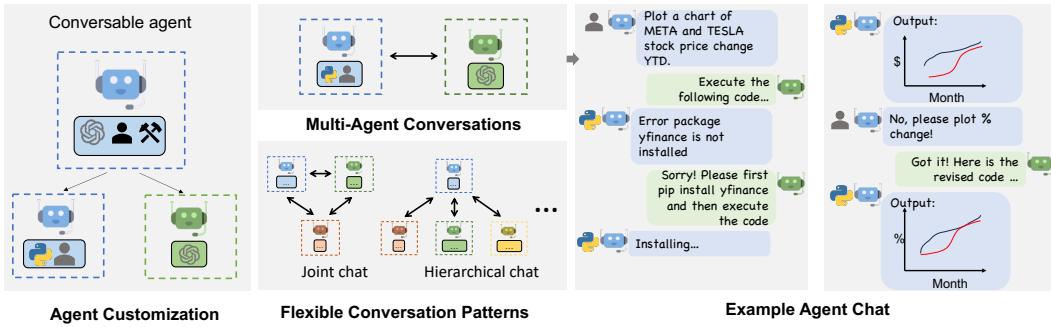


図 1: AutoGen は、マルチエージェント会話を使用して、多様な LLM ベースのアプリケーションを可能にします。（左）AutoGen エージェントは会話可能でカスタマイズ可能で、LLM、ツール、人間、またはそれらの組み合わせに基づくこともできます。（上から中央）エージェントは会話してタスクを解決できます。（右）彼らはチャットを形成でき、場合によってはループ内の人間と会話することができます。（下から中央）このフレームワークは、柔軟な会話パターンをサポートします。

Abstract

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