

# What is LMStudio?

LMStudio is a powerful software that lets you run Large Language Models (LLMs) locally on your computer. This provides a private, controlled alternative to cloud-based AI services.

LMStudio offers cost-free experimentation with LLMs, supporting local server functionality for seamless integration with applications like **AutoGen Studio**. Its intuitive interface also allows direct chat with models, making it ideal for testing and exploration.

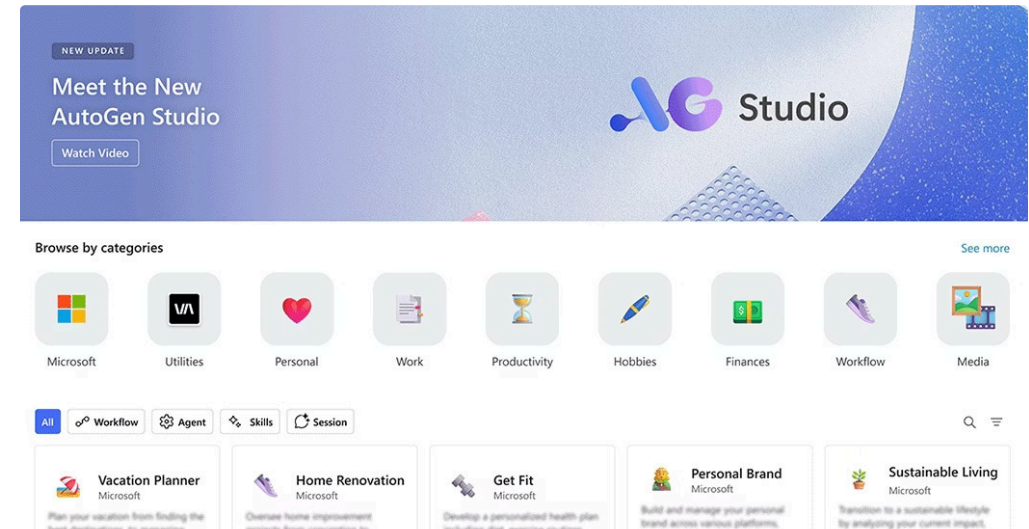


# What is AutoGen Studio?

Developed by Microsoft, AutoGen is a powerful framework that simplifies building advanced AI applications by intelligently orchestrating and integrating Large Language Models.

## Key Characteristics

- **Multi-Agent Orchestration:** Build and manage complex conversations between multiple AI agents
- **Seamless Integration:** Incorporate LLMs, human feedback, and external tools effortlessly
- **Microsoft Support:** Backed by Microsoft for long-term viability and continuous development



# AutoGen Studio: Visual AI Agent Development

AutoGen Studio is a web-based platform that transforms how you interact with AI agents. It provides an intuitive visual interface for prototyping and testing agent-driven solutions, dramatically reducing the need for extensive coding expertise.



## Visual Prototyping

Design and orchestrate agent workflows through an intuitive drag-and-drop interface



## No Coding Required

Create complex agent behaviors without programming skills—perfect for rapid experimentation



## Versatile Model Support

Integrate various language models, from OpenAI to local open-source alternatives

# Getting Started: Installation & Launch

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## Install AutoGen Studio

```
pip install autogenstudio
```

## Run AutoGen Studio

```
autogenstudio ui
```

After running the command, open the provided URL (typically <http://127.0.0.1:8081>) in your web browser to access the interface.

# Overview of AutoGen Studio Interface

AutoGen Studio offers a web-based interface for designing, managing, and running multi-agent applications, structured into four main sections for various development stages.



## Gallery

Central hub for managing reusable components and building blocks



## Team Builder

Visual canvas for constructing and modifying agent teams



## Playground

Interactive environment for testing and executing agent teams



## Deploy

Options for operationalizing your agent teams in production

Team Builder

Teams 1

+ New Team

Recents

Default Team\_17391  
team 1 agent  
just now

From Gallery

Default Team\_17391  
team 1 agent

Web Agent Team (Operat...  
team 3 agents

Deep Research Team  
team 3 agents

Toggle between visual builder and JSON mode

Visual builder mode (experimental)

Test teams interactively

Test Team

Component Library

Drag a component to add it to the team

Search components...

Agents (4)

- AssistantAgent
- MultimodalWebSurfer
- AssistantAgent
- UserProxyAgent

Models (3)

Tools (6)

Terminations (3)

Default Team\_17391 team

Model 1 Agent

A single AssistantAgent (with a calculator tool) in a RoundRobinGroupChat team.

AGENTS (1)

assistant\_agent

Drop agents here

TERMINATIONS

OrTerminationCondition

Drop termination here

AssistantAgent agent

Model 1 Tools

assistant\_agent  
An agent that provides assistance with tool use.

MODEL

gpt-4o-mini

Drop model here

TOOLS

calculator

Drop tools here

Create a new team from a gallery template

Drag in items from the Component Library

Click on the edit icon to edit nodes

Maintained by the AutoGen Team.

v0.4.1

Made with GAMMA

# The Gallery: Your Component Library

The Gallery serves as the central hub in AutoGen Studio for managing all reusable components. The "Default Component Gallery" organizes these essential building blocks into specialized tabs, each containing pre-configured elements ready to use in your projects.

01

## Teams Tab

Pre-configured groups of agents working together (default: Round Robin, Selector)

02

## Agents Tab

Core entities that communicate, use models, and execute tools to achieve goals (default: Assistant Agent, User Proxy, Web Surfer Agent)

03

## Tools Tab

Python functions extending agent capabilities for specific actions or external interactions (default: Calculator, Image Generation, Fetch Webpage, Bing Search, Google Search, Python Code Execution)

04


## Models Tab

LLMs providing reasoning and language capabilities—the "brains" of an agent (default: OpenAI, Mistral, Anthropic Claude, AzureOpenAI)

05

## Terminations Tab

Defines criteria for when a team's task or conversation should conclude, including text detection, message limits, and logical combinations

 Each component defined in the Gallery can be selected and assembled in the Team Builder to create powerful agent workflows.