

better629 Merge pull request #1897 from Ruyuan37/windows_terminal_adaptation 11cdf46 · 3 months ago

.devcontainer	fix bug for devcontainer; it should use meta...	2 years ago
.github	bugfix: Missing download info for actions/u...	last year
config	Include copyright to yaml files	11 months ago
docs	update video wall link	last year
examples	hello_world example compatibility	last year
metagpt	[terminal.py] Add Windows Terminal suppor...	5 months ago
tests	pre-commit fix	10 months ago
.coveragerc	update readme with news	last year
.dockerignore	remove duplicate string	3 years ago
.gitattributes	update readme with news	last year
.gitignore	fix conflicts	last year
.pre-commit-config.yaml	[terminal.py] Add Windows Terminal suppor...	5 months ago
Dockerfile	feat: Editor + read pdf/docx...	2 years ago
LICENSE	update license	3 years ago
MANIFEST.in	pypi with non-py files	2 years ago
README.md	Update README.md	6 months ago
SECURITY.md	fixbug: #1018	2 years ago
pytest.ini	ignore test file run_swe_agent_for_benchm...	last year
requirements.txt	chore: resolve conflict of setuptools	last year
ruff.toml	align ruff.toml with black	3 years ago
setup.py	remove milvus from RAG	last year

MetaGPT: The Multi-Agent Framework



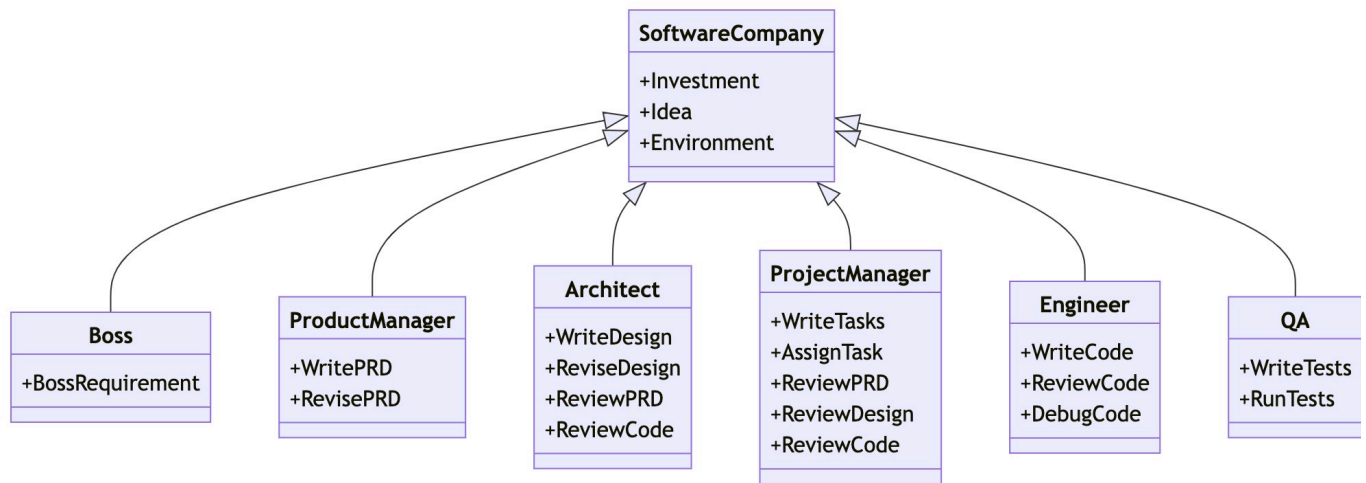
News

- 🚀 Mar. 10, 2025: 🌟 [mgx.dev](#) is the #1 Product of the Week on @ProductHunt! 🏆
- 🚀 Mar. 4, 2025: 🌟 [mgx.dev](#) is the #1 Product of the Day on @ProductHunt! 🏆
- 🚀 Feb. 19, 2025: Today we are officially launching our natural language programming product: [MGX \(MetaGPT X\)](#) - the world's first AI agent development team. More details on [Twitter](#).
- 🚀 Feb. 17, 2025: We introduced two papers: [SPO](#) and [AOT](#), check the [code](#)!
- 🚀 Jan. 22, 2025: Our paper [AFlow: Automating Agentic Workflow Generation](#) accepted for **oral presentation (top 1.8%)** at ICLR 2025, **ranking #2** in the LLM-based Agent category.

👉👉 [Earlier news](#)

Software Company as Multi-Agent System

1. MetaGPT takes a **one line requirement** as input and outputs **user stories / competitive analysis / requirements / data structures / APIs / documents, etc.**
2. Internally, MetaGPT includes **product managers / architects / project managers / engineers**. It provides the entire process of a **software company along with carefully orchestrated SOPs**.
 - i. `Code = SOP(Team)` is the core philosophy. We materialize SOP and apply it to teams composed of LLMs.



Software Company Multi-Agent Schematic (Gradually Implementing)

Get Started

Installation

Ensure that Python 3.9 or later, but less than 3.12, is installed on your system. You can check this by using: `python --version`.
 You can use conda like this: `conda create -n metagpt python=3.9 && conda activate metagpt`

```

pip install --upgrade metagpt
# or `pip install --upgrade git+https://github.com/geekan/MetaGPT.git`
# or `git clone https://github.com/geekan/MetaGPT && cd MetaGPT && pip install --upgrade -e .`
  
```

Install [node](#) and [pnpm](#) before actual use.

For detailed installation guidance, please refer to [cli install](#) or [docker install](#)

Configuration

You can init the config of MetaGPT by running the following command, or manually create `~/.metagpt/config2.yaml` file:

```
# Check https://docs.deepwisdom.ai/main/en/guide/get_started/configuration.html for more details
metagpt --init-config # it will create ~/.metagpt/config2.yaml, just modify it to your needs
```

You can configure `~/.metagpt/config2.yaml` according to the [example](#) and [doc](#):

```
llm:
  api_type: "openai" # or azure / ollama / groq etc. Check LLMTType for more options
  model: "gpt-4-turbo" # or gpt-3.5-turbo
  base_url: "https://api.openai.com/v1" # or forward url / other llm url
  api_key: "YOUR_API_KEY"
```

Usage

After installation, you can use MetaGPT at CLI

```
metagpt "Create a 2048 game" # this will create a repo in ./workspace
```

or use it as library

```
from metagpt.software_company import generate_repo
from metagpt.utils.project_repo import ProjectRepo

repo: ProjectRepo = generate_repo("Create a 2048 game") # or ProjectRepo("<path>")
print(repo) # it will print the repo structure with files
```

You can also use [Data Interpreter](#) to write code:

```
import asyncio
from metagpt.roles.di.data_interpreter import DataInterpreter

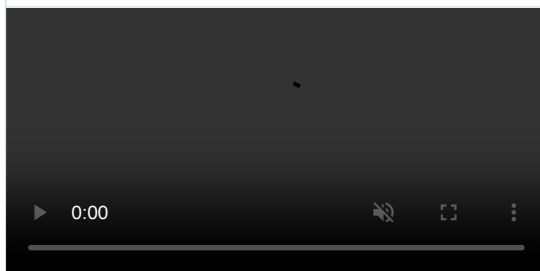
async def main():
    di = DataInterpreter()
    await di.run("Run data analysis on sklearn Iris dataset, include a plot")

asyncio.run(main()) # or await main() in a jupyter notebook setting
```

QuickStart & Demo Video

- Try it on [MetaGPT Huggingface Space](#)
- [Matthew Berman: How To Install MetaGPT - Build A Startup With One Prompt!!](#)
- [Official Demo Video](#)

metagpt_video_wall_2025.mp4 ▾



Tutorial

- [Online Document](#)

- 📖 [Usage](#)
- 🔍 [What can MetaGPT do?](#)
- ✂️ How to build your own agents?
 - [MetaGPT Usage & Development Guide | Agent 101](#)
 - [MetaGPT Usage & Development Guide | MultiAgent 101](#)
- 🧑‍🎓 Contribution
 - [Develop Roadmap](#)
- 🚀 Use Cases
 - [Data Interpreter](#)
 - [Debate](#)
 - [Researcher](#)
 - [Receipt Assistant](#)
- ? [FAQs](#)

Support

Discord Join US

🗨️ Join Our [Discord Channel](#)! Looking forward to seeing you there! 🎉

Contributor form

📝 [Fill out the form](#) to become a contributor. We are looking forward to your participation!

Contact Information

If you have any questions or feedback about this project, please feel free to contact us. We highly appreciate your suggestions!

- **Email:** alexanderwu@deepwisdom.ai
- **GitHub Issues:** For more technical inquiries, you can also create a new issue in our [GitHub repository](#).

We will respond to all questions within 2-3 business days.

Citation

To stay updated with the latest research and development, follow [@MetaGPT_](#) on Twitter.

To cite [MetaGPT](#) in publications, please use the following BibTeX entries.

```
@inproceedings{hong2024metagpt,  
  title={Meta{GPT}: Meta Programming for A Multi-Agent Collaborative Framework},  
  author={Sirui Hong and Mingchen Zhuge and Jonathan Chen and Xiawu Zheng and Yuheng Cheng and Jinlin Wang and Ce  
  booktitle={The Twelfth International Conference on Learning Representations},  
  year={2024},  
  url={https://openreview.net/forum?id=VtmBAGCN7o}  
}
```

For more work, please refer to [Academic Work](#).

Releases 22

📦 **Patch release: v0.8.1** Latest
on Apr 22, 2024

[+ 21 releases](#)

Packages

No packages published

Contributors 112



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Languages

