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GPTWorld: an experimental multi-agent sandbox world.

⑤ GPTWorld is an experimental multi-agent sandbox world. ﴿ Unlike typical sandbox games, interactions in GPTWorld are not defined by pre-written scripts ■, but rather **inferred by a world engine based on large models** ﴿ .. In this world, virtual agents and objects are equipped with long term memory, they can act, react, and communicate with each other, all supported by Al ※ .

Creating a sandbox world is typically thought to need a bunch of game developing techiniques, which are out of reach for most people. That what <a> GPTWorld comes to rescue! <a> To facilitate the creation of a more diverse range of sandboxes, we aim to allow players to create custom worlds through simple configuration files or even natural language <a> To facilitate the creation of a more diverse range of sandboxes, we aim to allow players to create custom worlds through simple configuration files or even natural language <a> To facilitate the creation of a more diverse range of sandboxes, we aim to allow players to create custom worlds through simple configuration files or even natural language <a> To facilitate the creation of a more diverse range of sandboxes, we aim to allow players to create custom worlds through simple configuration files or even natural language <a> To facilitate the creation of a more diverse range of sandboxes, we aim to allow players to create custom worlds through simple configuration files or even natural language <a> To facilitate the creation of a more diverse range of sandboxes, we aim to allow players to create custom worlds through simple configuration files or even natural language <a> To facilitate the creation of a more diverse range of sandboxes, we aim to allow players to create custom worlds through the configuration files or even natural language <a> To facilitate the creation of a more diverse range of sandboxes, we aim to allow players to create custom worlds through the configuration of a more diverse range of sandboxes.

By enabling easy to grab world creation ability, we look forward to everyone to build their own interesting world, and eventually gathered into a rich sandbox world for intelligent agents to explore through community sharing >> .

A join us on this exciting journey of creating a groundbreaking sandbox world with limitless possibilities !

Currently, GPTWorld supports:

Easily creating your environment and entities using JSON and mounting them onto your world ³A.
Starting the environment's autonomous operation with just one command ³● Observing the behavior of the agent in your web browser

Experimental feature Creating environments with natural languages

- 🎉 TODOS! 🤝 Allowing players to build and share environments in a distributed way
- ▲ Acknowledgements: This project was greatly inspired by *Generative Agents: Interactive Simulacra of Human Behavior* during development, where the mechanism of agents' behavior takes the reflection-summary-plan framework.
- **Disclaimer:** This project is for academic and experimental purposes only. We currently suspect that it is far from a usable game product.

Usage

Install

It is suggested to use python=3.8 on all platforms.

1. Download project by

git clone https://github.com/ShengdingHu/GPT-World.git

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or download zip file and unzip it.

2. (Optional) Create a python virtual enviornment by

```
conda create -n gptworld python=3.8
```

- Note that python3.8 support websockiet the best, other python versions may encounter issues in web display currently. *
- 3. Go to project directory by

```
cd GPT-World
```

4. Install dependencies by

```
pip install -r requirements.txt
```

5. Then install this library by

```
pip install .
```

6. Build the front end

```
cd io/frontend_new/rpg-game/
npm run build
```

Run examples

We currently provide some example sandboxes in world_instances/, choose one that you want to launch. Take alice_home as an example.

1. start the world engine

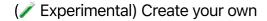
```
python gptworld/run.py -W alice_home
```

2. start the web server

```
python io/app.py -W alice_home
```

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now open the 5001 port of your localhost, and you will be able to see a simple environment.



1. If you want to create your world instance, modify the requirement in gptworld/create_world.py
and run

```
python gptworld/create_world.py
```

Global Configs

```
export GPTWORLD_LOG_LEVEL=XXX # (XXX can be debug, info, warning ...) to
set the logging level
```

Star History

