

Home AI Open Interpreter: An Interesting AI Tool to Locally Run ChatGPT-Like Code Interpreter

# Open Interpreter: An Interesting AI Tool to Locally Run ChatGPT-Like Code Interpreter



Arjun Sha - Last Updated: September 13, 2023 4:26 pm

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After [Auto-GPT](#) and [Code Interpreter API](#), a new open-source project is making waves in the AI community. The project is named [Open Interpreter](#), and it's been developed by Killian Lucas and a team of open-source contributors. It combines ChatGPT plugin functionalities, Code Interpreter, and something like Windows Copilot to make AI a ubiquitous solution on any platform. You can use Open Interpreter to do anything you can think of. You can interact with the system at the OS level, files, folders, programs, internet, basically everything right from a friendly Terminal interface. So if you are interested, learn how to set up and use Open Interpreter locally on your PC.

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### Things to Remember Before You Proceed

1. To take full advantage of Open Interpreter, you should have access to the GPT-4 API key. The GPT-3.5 model simply doesn't cut it and throws multiple errors while running code. Yes, running GPT-4 API is expensive, but it opens a lot of new utilities on your system.
2. I would suggest not running the models locally unless you have a good understanding of the building process. The project is currently buggy, especially for local models on Windows (at least for us). Also, you'll need to have beefy hardware specs to get better performance from larger models.

### Set Up the Python Environment

1. First off, you need to [install Python and Pip](#) on your PC, Mac, or Linux computer. **Follow the linked guide** for detailed instructions.

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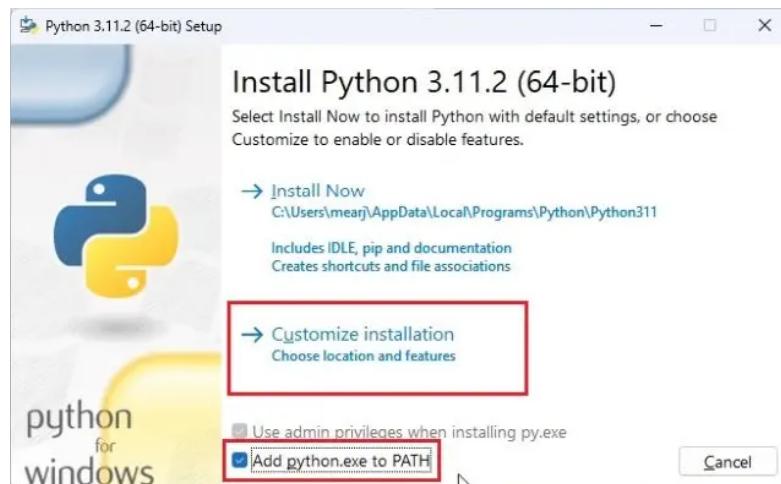
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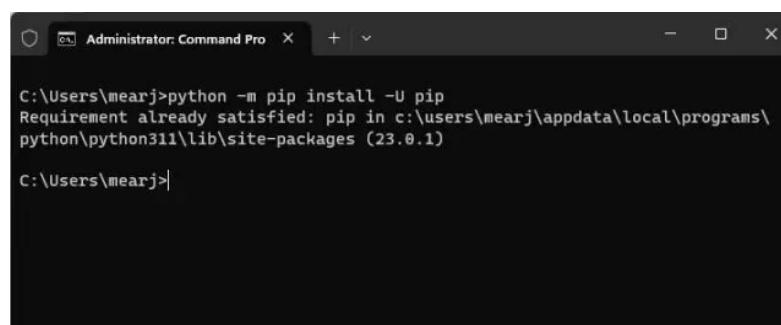
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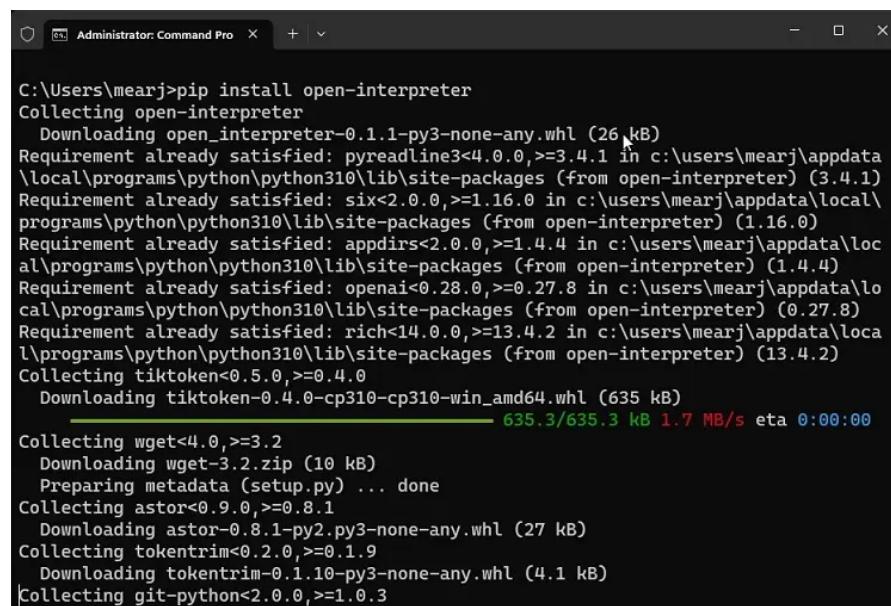
2. Next, open the Terminal or CMD and run the below command to **update Pip** to the latest version.

```
python -m pip install -U pip
```



3. Now, run this command to **install Open Interpreter** on your machine.

```
pip install open-interpreter
```



## Set Up Open Interpreter on Your PC

1. Once Open Interpreter is installed, execute one of the below commands **based on your preference**.

- For the **GPT-4 model**. Must have access to GPT-4 API from OpenAI.

```
interpreter
```

- For the **GPT-3.5 model**. Available to free users.

```
interpreter --fast
```

- Run the **Code-llama model** locally. Free to use. You need good resources on your computer.

```
interpreter --local
```

2. I am going with the OpenAI GPT-4 model, but if you don't have access to its API, you can choose GPT-3.5. Now, go ahead and **get an API key** from OpenAI's [website](#). Click on "Create new secret key" and copy the key.

The screenshot shows the OpenAI API keys management interface. At the top, it says "API keys". Below that, it states: "Your secret API keys are listed below. Please note that we do not display your secret API keys again after you generate them." It also advises: "Do not share your API key with others, or expose it in the browser or other client-side code. In order to protect the security of your account, OpenAI may also automatically disable any API key that we've found has leaked publicly." A table lists several existing secret keys. A modal window is open in the center, titled "Create new secret key". It contains the instruction: "Please save this secret key somewhere safe and accessible. For security reasons, you won't be able to view it again through your OpenAI account. If you lose this secret key, you'll need to generate a new one." Below this, a text input field shows a partial key: "sk-...Viak". To the right of the input field is a green "Copy" button with a clipboard icon. At the bottom of the modal is a green "Done" button. The main table below the modal shows a list of keys, with the last one being "Secret key" created on "12 Sept 2023" with "Never" as the last used date. A "Done" button is also visible at the bottom of the table row.

3. **Paste the API key** in the Terminal and hit Enter. By the way, you can always press "Ctrl + C" to exit from Open Interpreter.

```
C:\Users\mearj>interpreter
Welcome to Open Interpreter.

| OpenAI API key not found

To use GPT-4 (recommended) please provide an OpenAI API key.

To use Code-Llama (free but less capable) press enter.

OpenAI API key: sk-[REDACTED] uwDo

Tip: To save this key for later, run export OPENAI_API_KEY=your_api_key on Mac/Linux or setx OPENAI_API_KEY your_api_key on Windows.

| Model set to GPT-4
```

## How to Use Open Interpreter on Your PC

1. To start using Open Interpreter, I asked it to set my **system to dark mode** and it worked. As I am using Windows, it created a Registry key and changed the theme seamlessly.

```
As you are using Windows, we can try to change the system theme using a registry key. The registry key that controls this setting is AppsUseLightTheme located in HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Themes\Persona

Here is the plan:

1 Check the current value of the AppsUseLightTheme registry key.
2 If the value is 0 (dark mode), change it to 1 (light mode).
3 Notify the user to log off and log on again for the changes to take effect.

Let's start with step 1, checking the current value of the AppsUseLightTheme registry key.

import winreg

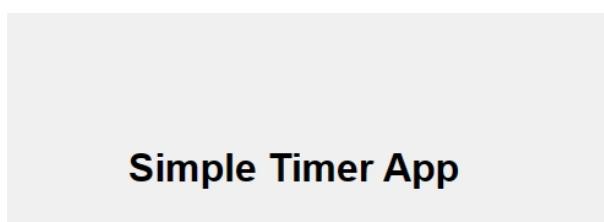
key = winreg.OpenKey(winreg.HKEY_CURRENT_USER,
'Software\\Microsoft\\Windows\\CurrentVersion\\Themes\\Personalize')
value, regtype = winreg.QueryValueEx(key, 'AppsUseLightTheme')

value

Would you like to run this code? (y/n)
```

y

2. Next, I asked it to create a simple **web-based Timer app**. And it did create an app in no time. This can very well turn out to be a great way to [earn money using the power of AI](#).

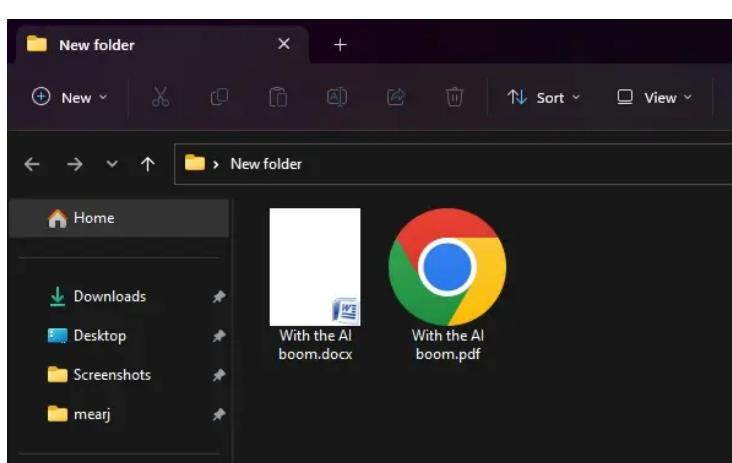




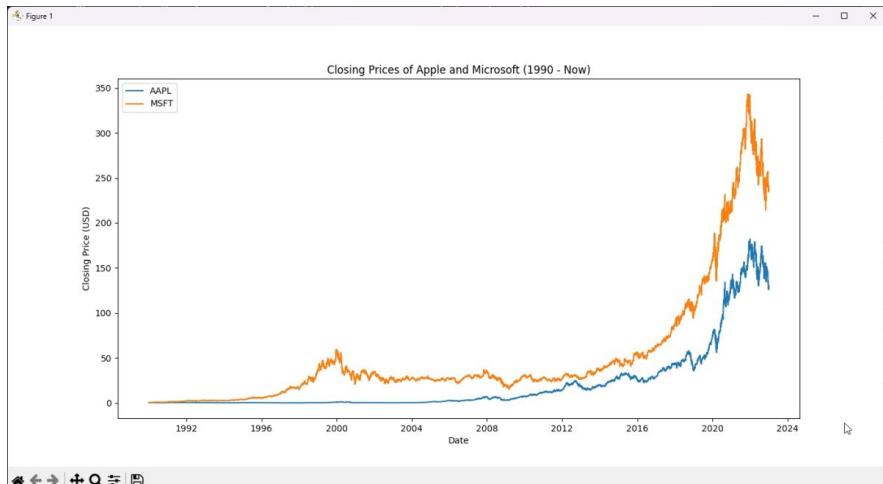
3. Next, I asked the Open Interpreter to **summarize a local text document** and it worked well.

```
LimeWire AI Studio is the place to be for building a\npassionate community. Fans can subscribe to numerous membership-based communities, which will\ngenerate revenue streams, which can be passed on to creators. Fans can also directly communicate\nwith creators and get access to exclusive perks.\nAI Studio is an ideal place for budding\ncreators and artists.\nUnlimited AI Image Generation\nLimeWire AI Studio is now live, and AI Image Generation is one of the highlight features on the\nplatform. The company also plans to bring more Generative AI features like music and video\ngeneration using AI. Coming back to AI Image Generation, LimeWire AI Studio features\nmultiple\nmodels, including Stable Diffusion XL, Stable Diffusion 2.1, and OpenAI's latest Dall-E 2\nmodel. The\ncompany says it's also working on its proprietary model, which should go live later this\nmonth.\nLimeWire AI Image Generation interface\nI tried the AI Image generation feature on LimeWire\nAI Studio and was impressed with the overall,\nclean UI and image processing. You can quickly choose\nthe model, enter your prompt, add some\nnegative prompts to avoid discrepancies in the image, select\nthe styling of the scene, and much\nmore. Keep in mind that free users get a total of 10 credits and\nlimited model availability. However, if\nyou subscribe to the top-tier paid plan, you can generate\nup to 10,000 images per month with no\nlimit on model usage.'\n\nI have successfully read the contents of the file "C:\Users\mearj\Desktop\limewire.txt". Here is a\nsummary of the text:\n\nLimeWire was a popular file-sharing platform in the past, but it has now been rebranded as an\nAI-powered content publishing platform called LimeWire AI Studio. Users can generate images, videos,\nand music using AI and monetize their content. LimeWire AI Studio also provides a platform for\ncontent creators, artists, and brands to build a community and generate revenue through\nmembership-based communities. The platform offers AI image generation as one of its main features,\nwith multiple models available. LimeWire AI Studio plans to introduce more generative AI features\nlike music and video generation in the future.\n\nPlease note that this is just a summary of the text. Let me know if there's anything else I can help\nyou with!
```

4. I also asked it to **convert a PDF file to DOCX** and worked flawlessly.



5. Next, it quickly pulled data from the internet and showed the stock price of Apple and Microsoft in a visual chart. You can try many such use cases with Open Interpreter, which are pretty interesting.



## Nifty Tips to Use Open Interpreter Locally

1. Open Interpreter always **asks for your permission** before running the code. After a point, it can get annoying. If you want to avoid it, you can start Open Interpreter in the below fashion.

```
interpreter -y
```

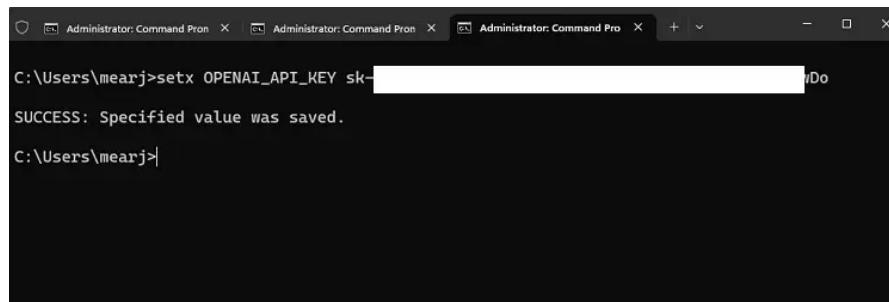
2. Next, you can permanently **set the OpenAI API key** in the command-line interface in the below fashion. This will save you a lot of time. Replace “`your_api_key`” with the actual key.

- **Windows**

```
setx OPENAI_API_KEY your_api_key
```

#### • macOS and Linux

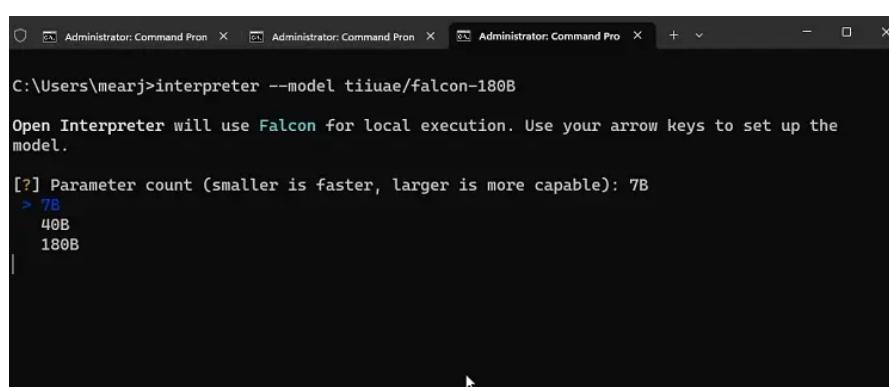
```
export OPENAI_API_KEY=your_api_key
```



A screenshot of a Windows Command Prompt window titled "Administrator: Command Pro". It shows the command `setx OPENAI_API_KEY sk-` being entered and then completed with a redacted value. The output shows "SUCCESS: Specified value was saved." followed by a prompt `C:\Users\mearj>`.

3. If you want to **locally use a different model**, you can define it like this. The model must be hosted on Hugging Face and the repo ID should be mentioned just like below. You can find the [best open-source AI models](#) from our linked article.

```
interpreter --model tiuae/falcon-180B
```



A screenshot of a Windows Command Prompt window titled "Administrator: Command Pro". It shows the command `interpreter --model tiuae/falcon-180B` being run. The output says "Open Interpreter will use Falcon for local execution. Use your arrow keys to set up the model." followed by a question mark prompt `[?] Parameter count (smaller is faster, larger is more capable):` and options `7B`, `40B`, and `180B`.

In case, you find the project too complex or buggy, check out our list of the [best AI coding tools](#). These tools allow you to get the best coding experience, be it your favorite IDE or a simple code editor.

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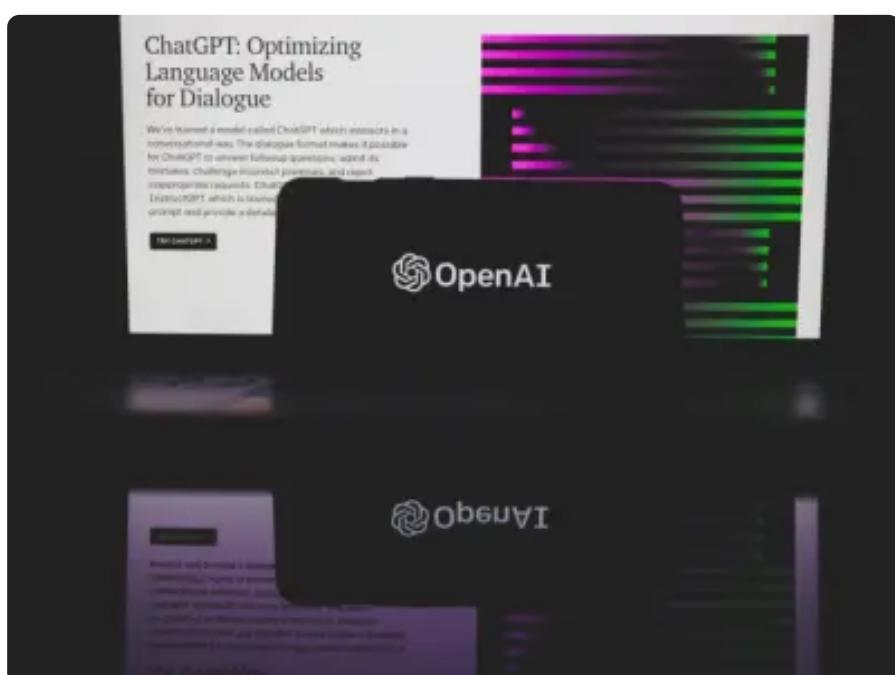
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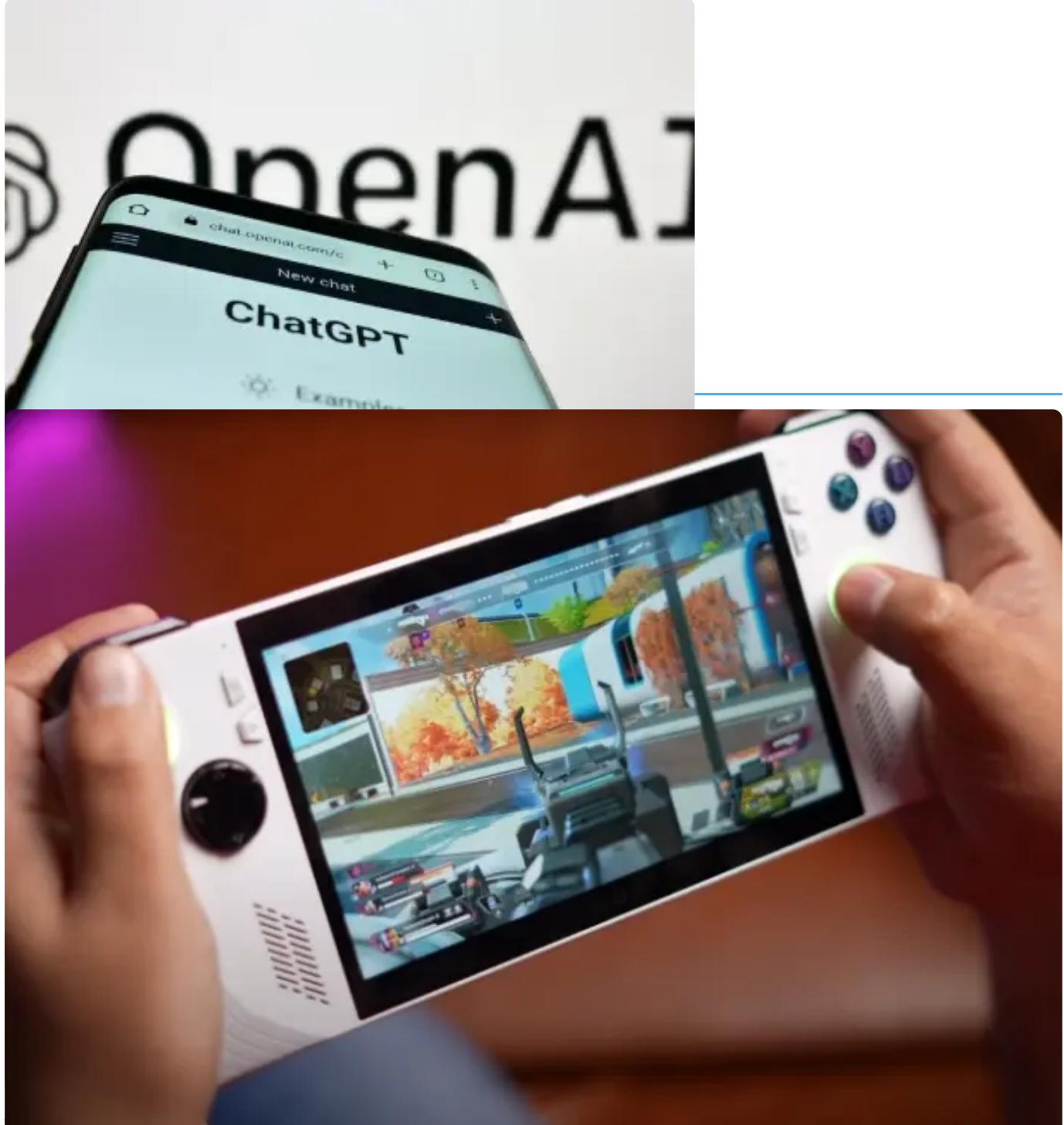
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