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前言

标题有点水，但请相信我，文章内容足够硬核，流程足够详细，绝对值得一看。本文将分几个部分向墙内用户介绍 OpenAI LLMs 服务：

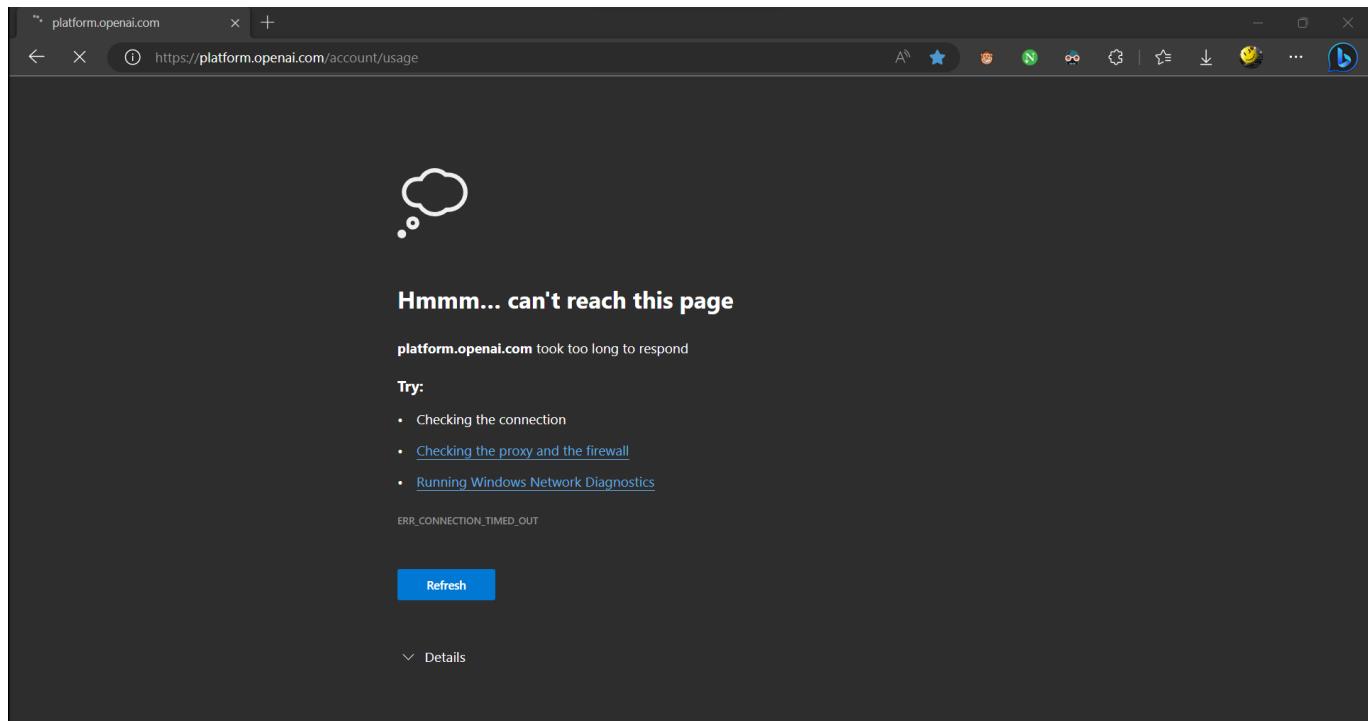
- 前言中将介绍国内用户使用 OpenAI 产品的几个须知
- 初阶难度将介绍三个标志性的 ai 产品
- 中阶难度将举例介绍使用 OpenAI API 的两种方式
- 高阶难度将介绍两种免翻墙使用 OpenAI API 的方法
- Bonus parts 则是一些与正文内容关联略小但能帮助理解的部分

希望能帮到各位，[点赞关注收藏不迷路](#)

To be continued... 意味着笔者暂时还没想好这块怎么写.....如果你有什么特别想看的部分或提建议或也欢迎在评论区提 issue 或 pull request

GFW 与 CloseAI，墙内之痛

先放几张国内用户一眼血压升高的图片：



Can not Reach Page. 你被 GFW 拦住了。这里不作赘述 **so fuck you GFW :)**



Please stand by, while we are checking your browser...

Checking Browser. 验证你是否为爬虫 · 或者从浏览器 cookies 等蛛丝马迹中判断你是否在不支持 OpenAI 服务的地区



Access denied



You do not have access to chat.openai.com.

The site owner may have set restrictions that prevent you from accessing the site.

Ray ID: 7b48ae770b4cfab2

Timestamp: 2023-04-08 07:08:51 UTC

Your IP address: 2602:feda:dde:7d5b:7e0f:cd2b:d58c:49e7

Requested URL: chat.openai.com/chat

Error reference number: 1020

Server ID: FL_467F92

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64)

AppleWebKit/537.36 (KHTML, like Gecko)

Chrome/112.0.0.0 Safari/537.36 Edg/112.0.1722.34



Not available

OpenAI's services are not available in your country.

*Service Unavailable in Your Country **so fuck you CloseAI :)***

A screenshot of a terminal window with a dark background. At the top left is a user icon labeled "You". At the top right are two small icons: a trash bin and a pencil. In the middle-left area, the text "hello" is visible. At the bottom-left, there is a profile icon of a person with a lamp and the text "Neuro-sama". Below this, several lines of text in a monospaced font show a failed API request:

```
request to
https://api.openai.com/v1/chat/completions
failed, reason: connect ETIMEDOUT
75.126.33.156:443
```

gpt API 网络请求失败

(已过滤) · 你就很难通过 CloseAI 堪比 Netflix 的 ip 封锁；没有基本的网络常识，你也很难绕过 CloseAI 额外的浏览器检测。因此，不翻墙使用 gpt 服务变得吃香，部分商家利用信息差向不提供 OpenAI 服务的地区高价兜售 OpenAI 服务，令人作呕，这是我写这篇文章的原因之一

了解 OpenAI LLMs

这部分我大概想介绍下不同 LLM 之间的定价和擅长工作等区别 **To be continued...**

Reference: [Models - OpenAI API Documentation](#)

Princing

To be continued...

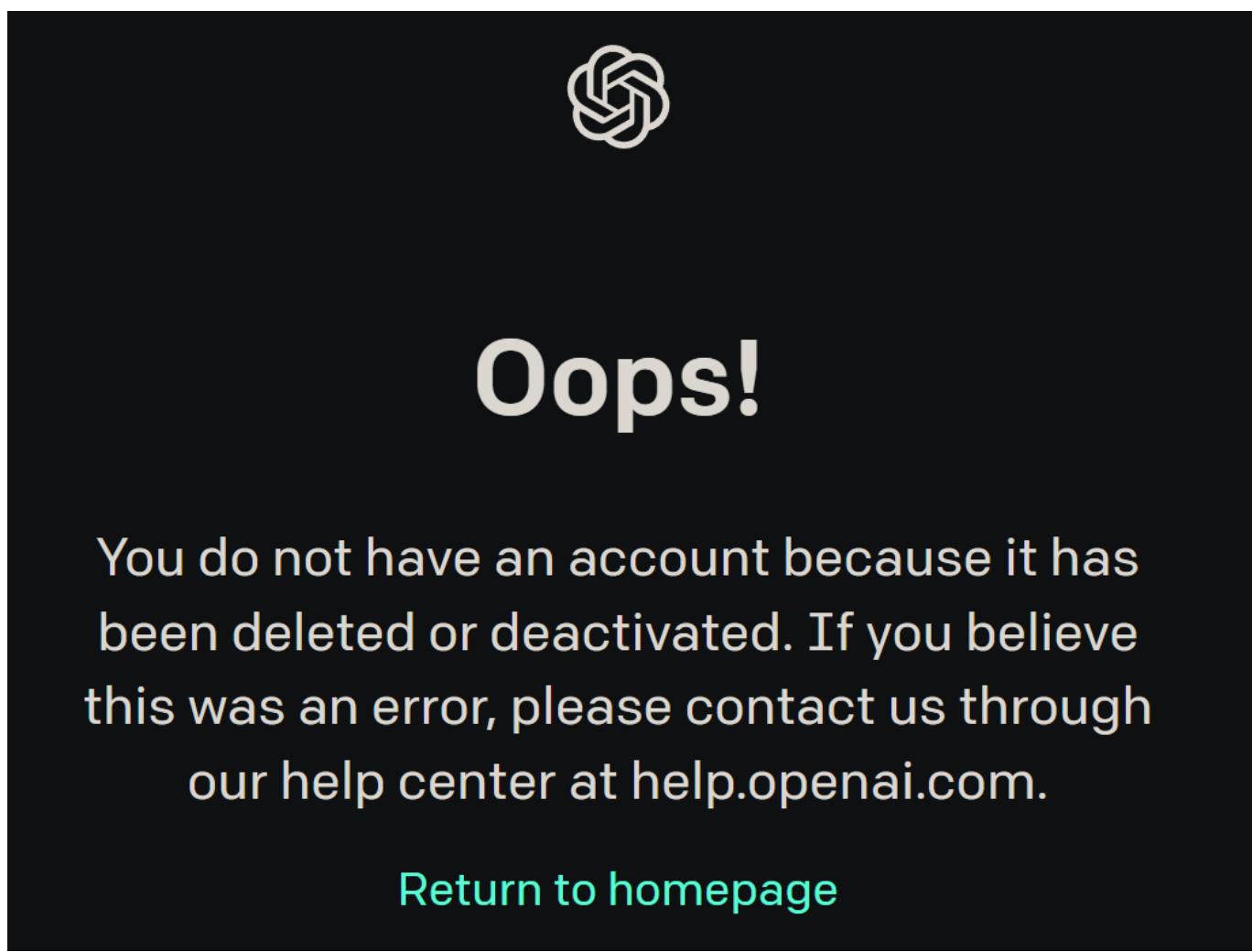
Reference: [Pricing -OpenAI API Documentation](#)

初阶 : ChatGPT

!IMPORTANT! 为什么不推荐购买 OpenAI 账号和营利性 ChatGPT 镜像

封号风险

网购 OpenAI 账号 (包括代注册) 往往来源于批量注册 · 一个 ip 地址注册多个 OpenAI 账号的后果就是被“秋后算账”封号 · 商家一跑了之 · 毫无商业诚信可言



你号没了

暴利行业

无论是兜售 OpenAI 账号还是出售“问答次数”等服务都是暴利！根据《[GPT-4 API 接口调用及价格分析](#)》，让价格高昂的 GPT-4 回复 2000 多字通常只需要 1 人民币左右，而更常用的 ChatGPT 只要 4 分钱不到！信息差使得国内营利性 ChatGPT 镜像完全成了割墙内人韭菜的暴利灰产

| token数 | 字数 | \$0.06 | \$0.03 | \$0.002 | \$0.02 | \$0.002 | \$0.0005 | \$0.0004 |
|--------------------------|----------------------|----------------------|----------------|----------------|----------------|----------------|-----------------|-----------------|
| gpt-4(completion) | gpt-4(prompt) | gpt-3.5-turbo | davinci | curie | babbage | ada | | |
| 1,000 | 750 | \$0.06 | \$0.03 | \$0.00 | \$0.02 | \$0.00 | \$0.00 | \$0.00 |
| 2,500 | 1,875 | \$0.15 | \$0.08 | \$0.01 | \$0.05 | \$0.01 | \$0.00 | \$0.00 |
| 5,000 | 3,750 | \$0.30 | \$0.15 | \$0.01 | \$0.10 | \$0.01 | \$0.00 | \$0.00 |
| 10,000 | 7,500 | \$0.60 | \$0.30 | \$0.02 | \$0.20 | \$0.02 | \$0.01 | \$0.00 |
| 25,000 | 18,750 | \$1.50 | \$0.75 | \$0.05 | \$0.50 | \$0.05 | \$0.01 | \$0.01 |
| 50,000 | 37,500 | \$3.00 | \$1.50 | \$0.10 | \$1.00 | \$0.10 | \$0.03 | \$0.02 |
| 100,000 | 75,000 | \$6.00 | \$3.00 | \$0.20 | \$2.00 | \$0.20 | \$0.05 | \$0.04 |
| 250,000 | 187,500 | \$15.00 | \$7.50 | \$0.50 | \$5.00 | \$0.50 | \$0.13 | \$0.10 |
| 500,000 | 375,000 | \$30.00 | \$15.00 | \$1.00 | \$10.00 | \$1.00 | \$0.25 | \$0.20 |
| 1,000,000 | 750,000 | \$60.00 | \$30.00 | \$2.00 | \$20.00 | \$2.00 | \$0.50 | \$0.40 |
| 1,250,000 | 937,500 | \$75.00 | \$37.50 | \$2.50 | \$25.00 | \$2.50 | \$0.63 | \$0.50 |
| 1,500,000 | 1,125,000 | \$90.00 | \$45.00 | \$3.00 | \$30.00 | \$3.00 | \$0.75 | \$0.60 |
| 1,750,000 | 1,312,500 | \$105.00 | \$52.50 | \$3.50 | \$35.00 | \$3.50 | \$0.88 | \$0.70 |
| 2,000,000 | 1,500,000 | \$120.00 | \$60.00 | \$4.00 | \$40.00 | \$4.00 | \$1.00 | \$0.80 |
| 10,000,000 | 7,500,000 | \$600.00 | \$300.00 | \$20.00 | \$200.00 | \$20.00 | \$5.00 | \$4.00 |

直观地看出调用 GPT 接口的定价

网络环境

- 已过滤
- 已过滤
- 值得注意的是，CloseAI 封禁节点的力度相当之大，因此机场出现无法解锁 CloseAI 服务而 [Access Denied](#) 的情况非常常见

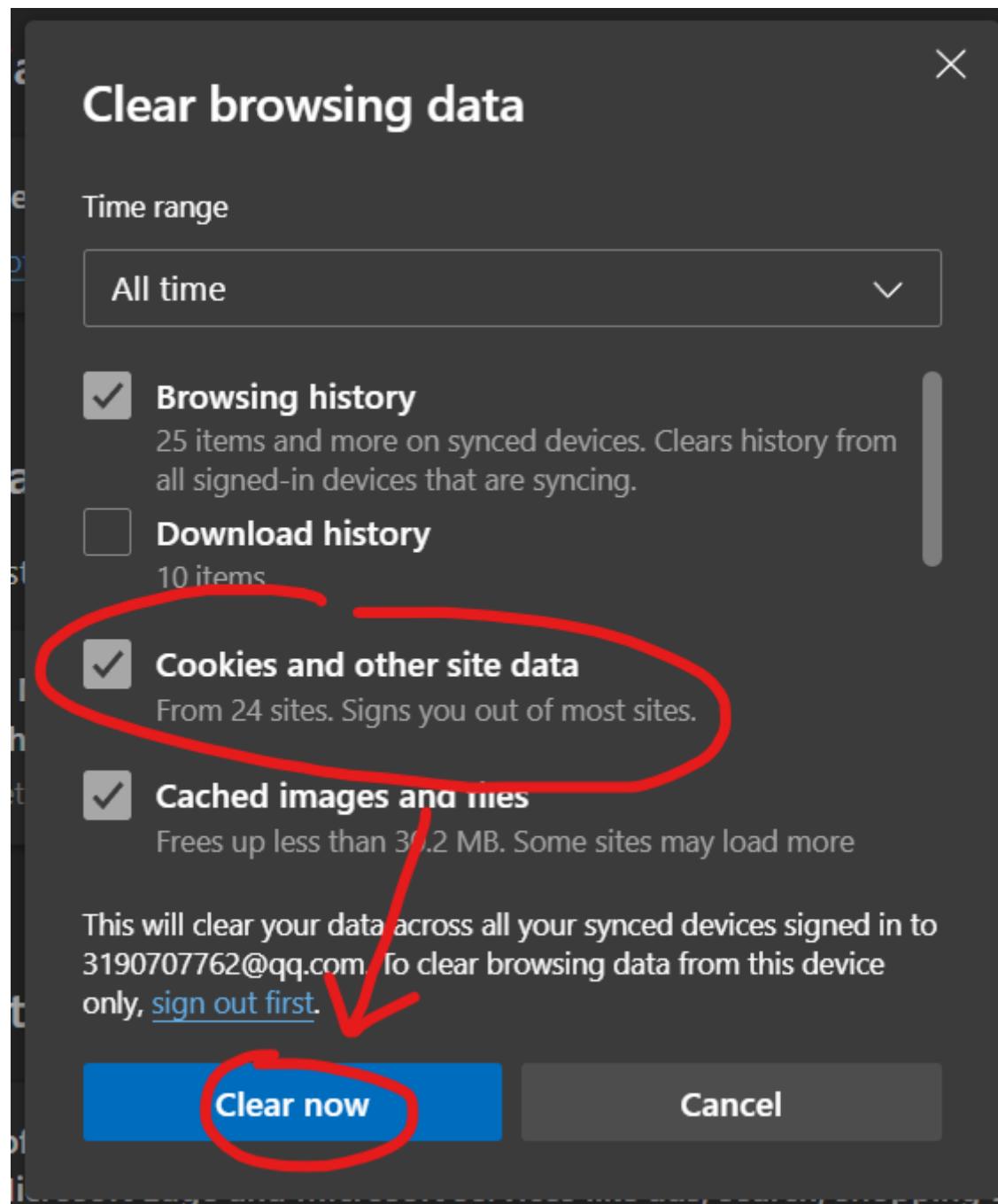
The screenshot shows the GLaDOS website's navigation bar with links to Home, Shop, Tools, and Customer Services. On the right, it shows the user account information "Account(3190707762@qq.com)" and a "Switch language" dropdown. Below the navigation, there is a dark banner with the text "Notification" and a red warning message: "ChatGPT/New Bing Unlocking is NOT WORKING" followed by "Please read our Notes on ChatGPT".

GlaDOS 解锁 OpenAI 是不稳定的

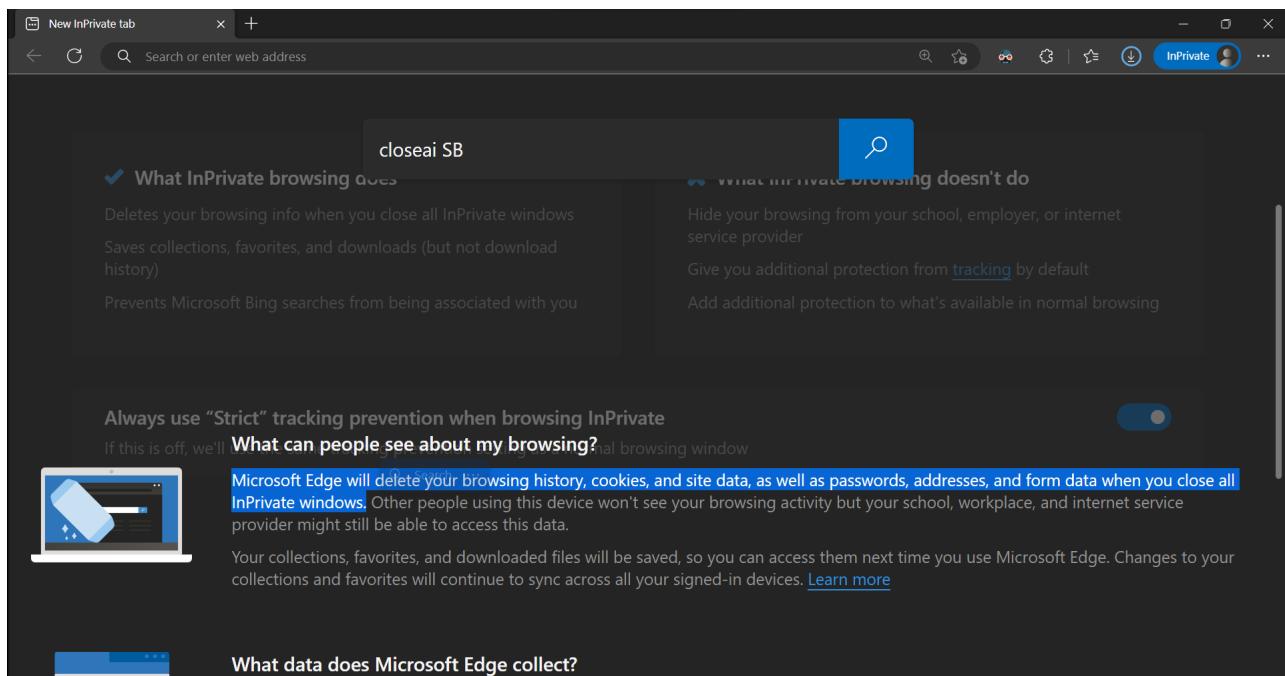
- 由于机场跑路的情况非常常见，因此最好常备多个机场，能买不限时流量计费就买流量，不是看流媒体通常速度不要紧。可以在这里查看机场解锁 OpenAI 情况 DuyaoSS 的 [Telegram 频道](#)

Access Denied 99% 是节点问题

- 浏览器环境对你能否进入 OpenAI 网站至关重要，当你切换了多个节点或更换机场后仍然遇到 **Access Denied 错误** 时，可以试着清除浏览器 cookies、更换浏览器或使用无痕浏览



以 Edge 为例，在浏览器地址栏输入 `edge://settings/clearBrowserData`，选中并清除浏览器 cookies



Crtl+Shift+N · 无痕浏览模式不会保存你的 cookies

有效邮箱

某月某日以来，OpenAI 先后禁止了 163mail、qqmail 甚至是 outlook 邮箱（即微软账号，CloseAI 急起来连它爹都封）的注册，因此你需要一个有效的邮箱来注册 OpenAI 账号，通常推荐用 gmail 注册（edu.cn 邮箱我没试过，听说似乎也可行）

[《如何使用 +86 大陆手机号注册 Gmail》](#)

海外电话

如果你没有实体海外电话，推荐使用 [sms-activate.org](#) 购买虚拟电话验证服务（俗称接码）

1. 注册 [sms-activate.org](#) 账号并充值一点钱（一般最低充值金额就够了）
2. 根据你节点所在地区购买 OpenAI 虚拟电话接码服务（上次我用美国手机号被 CloseAI 发现是虚拟手机号 ban 了，改用英国的手机号才成功）



找到 OpenAI

选择服务

openai

🔍

还没有找到新服务? 提供

 选择国家

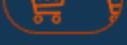
🔍

按国家分类:

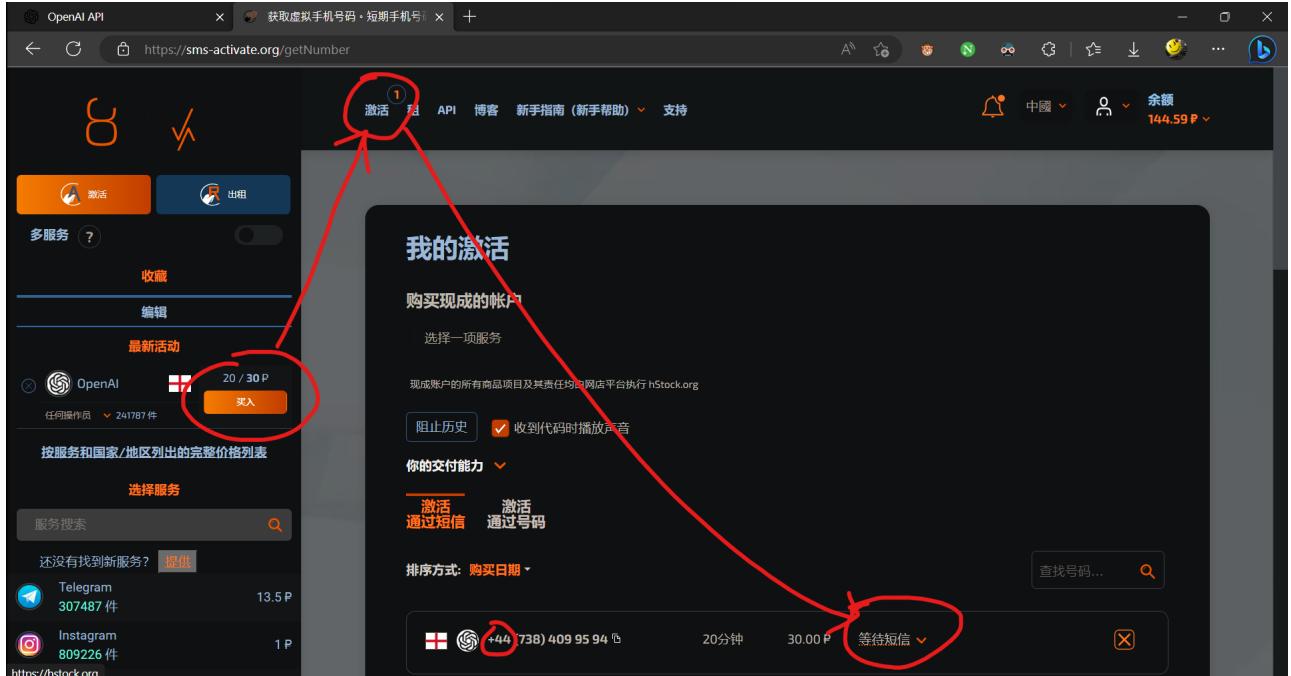
号码验证 ?

⌄

服务 价格 批发/零售 ?

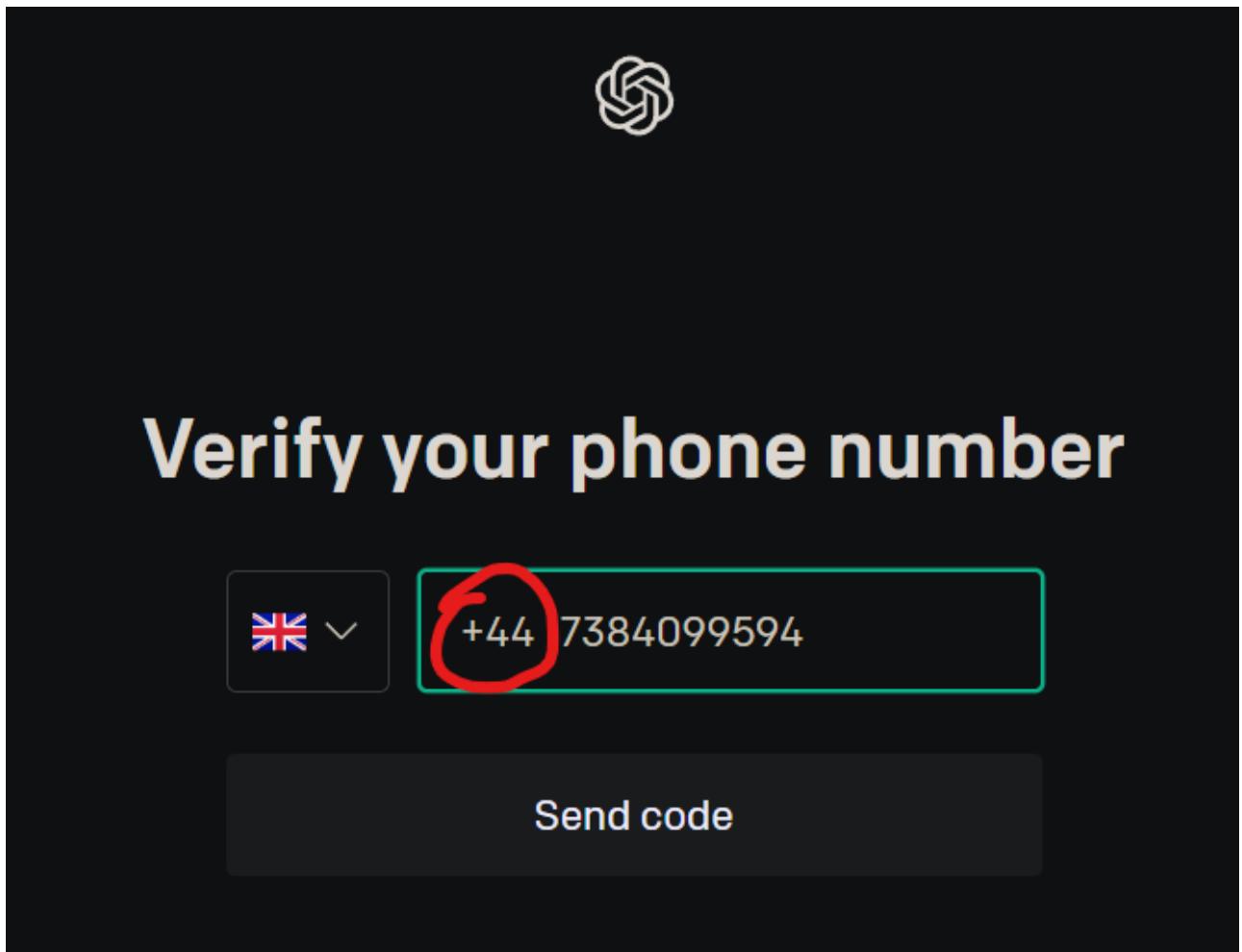
| 国家 | 件数 | 价格 | 批发/零售 | 操作 |
|---|---|-------------|-------|--|
|  印度尼西亚 | 63244 件 | 15 / 22.5 ₽ | 批发/零售 |  |
|  英格兰 | 241668 件 ★ | 20 / 30 ₽ | 批发/零售 |  |
|  巴西 | 7242 件 | 20 / 30 ₽ | 批发/零售 |  |
|  印度 | 14287 件 | 35 / 52.5 ₽ | 批发/零售 |  |
|  美国 (物理) | 2236 件 | 55 / 82.5 ₽ | 批发/零售 |  |
|  泰国 | 11219 件 | 20 / 30 ₽ | 批发/零售 |  |
|  马来西亚 | 3431 件 | 35 / 52.5 ₽ | 批发/零售 |  |
|  罗马尼亚 | 519 件 | 15 / 22.5 ₽ | 批发/零售 |  |

比较推荐英国地区，价格实惠



别担心，20分钟未收到短信或手动取消服务都会自动退款。

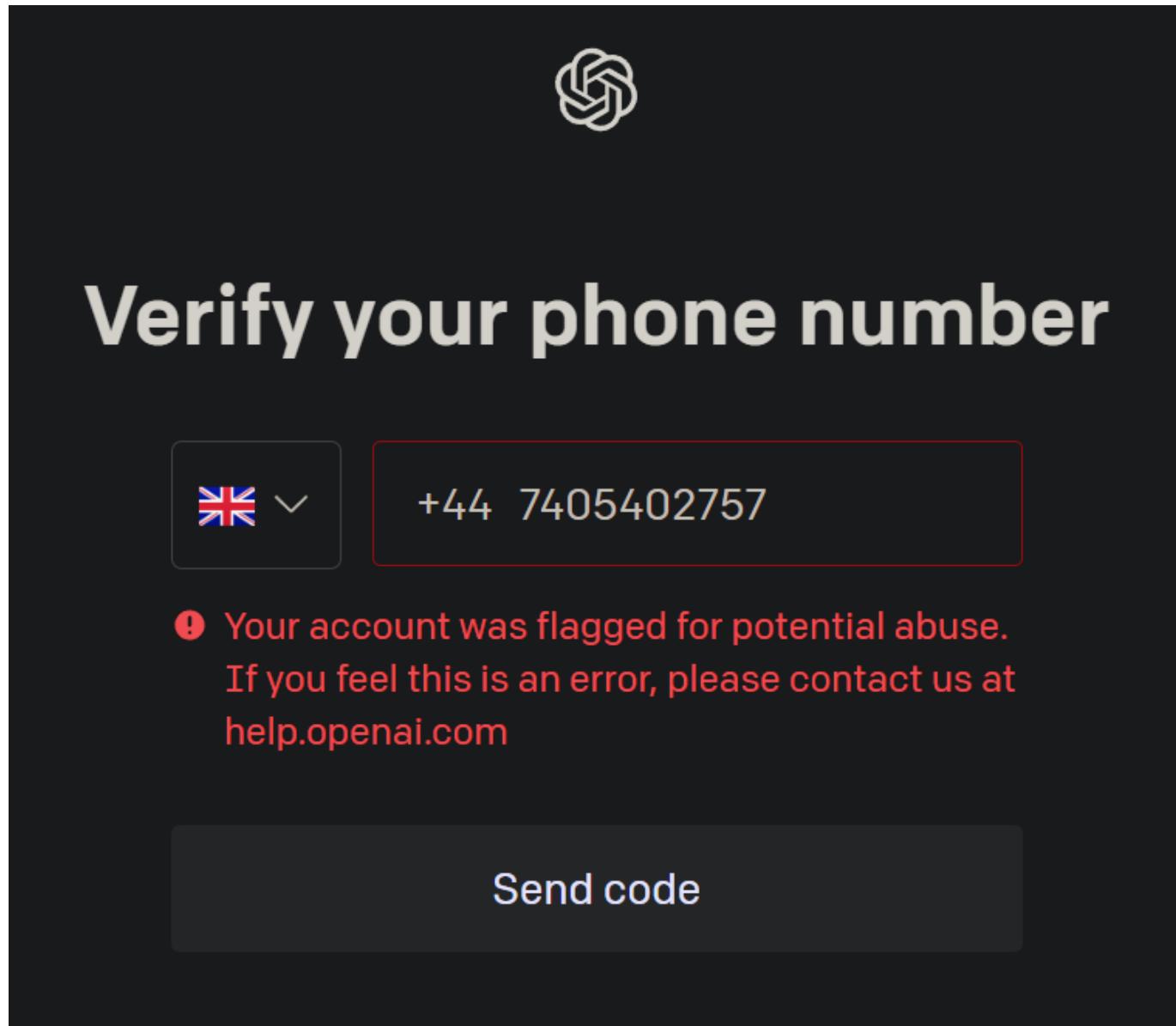
3. 复制手机号，去 [OpenAI 官网](#) 一步步注册。将 sms-activate.org 提供的虚拟手机号复制到 OpenAI 的电话号码输入框中



记得删除国家前缀（如 +44 英国）

4. 注册成功！开始使用

注册过程中可能遇到的问题



账号被怀疑参与非法行为。代理节点和你的手机号需处于同一国家



Verify your phone number



▼

+1 3435572708

- It looks like this is a virtual phone number (also known as VoIP). Please provide a valid, non-virtual phone number to continue.

Send code

你的手机号被鉴定为虚拟手机号。退款（未收到验证码可以直接点击“X”取消），换个国家的手机号

To be continued

如果出现其他问题，可以参考[《你注册 OpenAI 时为什么会失败》](#)

使用 ChatGPT

[ChatGPT playground](#) 是一个不需要 API 接口就可以直接使用的 OpenAI 官方产品，它提供了一个简单的聊天界面

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你是一名openai旗下的AI助手



是的，我是一名OpenAI旗下的AI助手，我的名称是ChatGPT。我是一个基于GPT-3.5架构训练的大型语言模型，能够回答各种问题并提供帮助和建议。请告诉我您需要什么样的帮助，我会尽力回答您的问题。

31

如何评价那些有非常详细的教程还是不会注册openai账号的人



评价一个人的能力和素质不能单纯地根据一个方面的表现来判断。尤其是在技术和科技领域，即使一个人没有注册OpenAI账号，也不一定代表他/她缺乏能力或素质。

首先，OpenAI的注册过程可能会有一些障碍和技术限制，比如需要邮箱验证、需要连接GitHub账号等等，这些可能会使注册过程变得复杂和繁琐。

其次，即使一个人无法注册OpenAI账号，也不能说明他/她缺乏技能或知识。人们可以在其他地方学习和掌握技能，例如通过自学、参加课程和培训等途径。因此，即使他们没有注册OpenAI账号，他们仍然可以成为出色的技术人才。

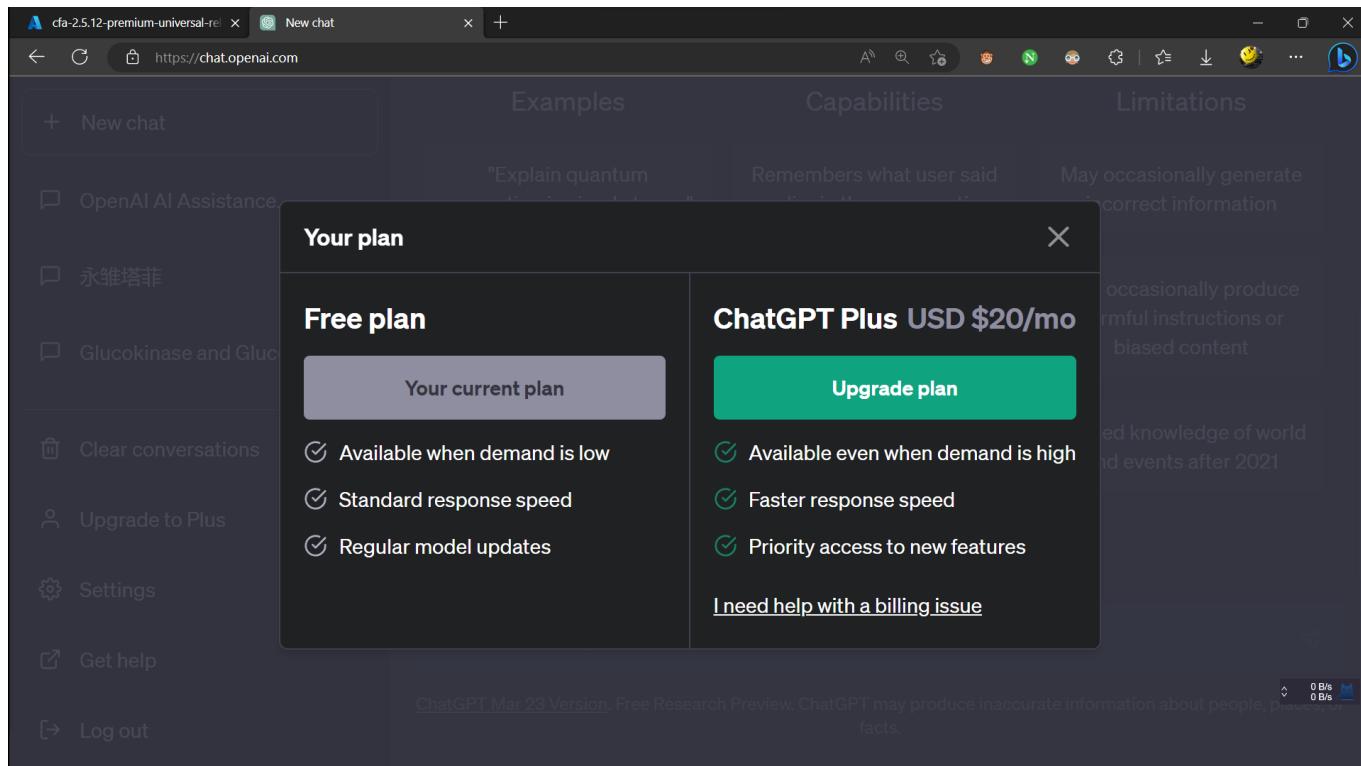
那你情商蛮高的



ChatGPT Mar 23 Version. Free Research Preview. ChatGPT may produce inaccurate information about people, places, or facts

高情商 chatbot

Optional* ChatGPT Plus



ChatGPT 和其他使用 API 的模型不同，前者属于一个成熟的产品，而后者则是主要面向开发者的服务。因此其付费版的价格也相对昂贵（得多）

ChatGPT Plus 是 OpenAI 官方提供的付费服务，它提供了：

1. 更快的回应速度（相较于 ChatGPT，不过还是绝对慢于 Azure OpenAI API）
2. 拥堵时仍能使用（不会被 Rate Limited）
3. GPT-4 免费试用（每 4h 100 次）

不过其实我个人并不推荐墙内用户购买 ChatGPT Plus，因为：

1. 价格昂贵（每月 20 USD，拼车还容易遇到各种问题）
2. 需要海外信用卡（麻烦，虚拟信用卡还容易多交钱）
3. 墙内访问麻烦（要过浏览器验证）

To be continued...

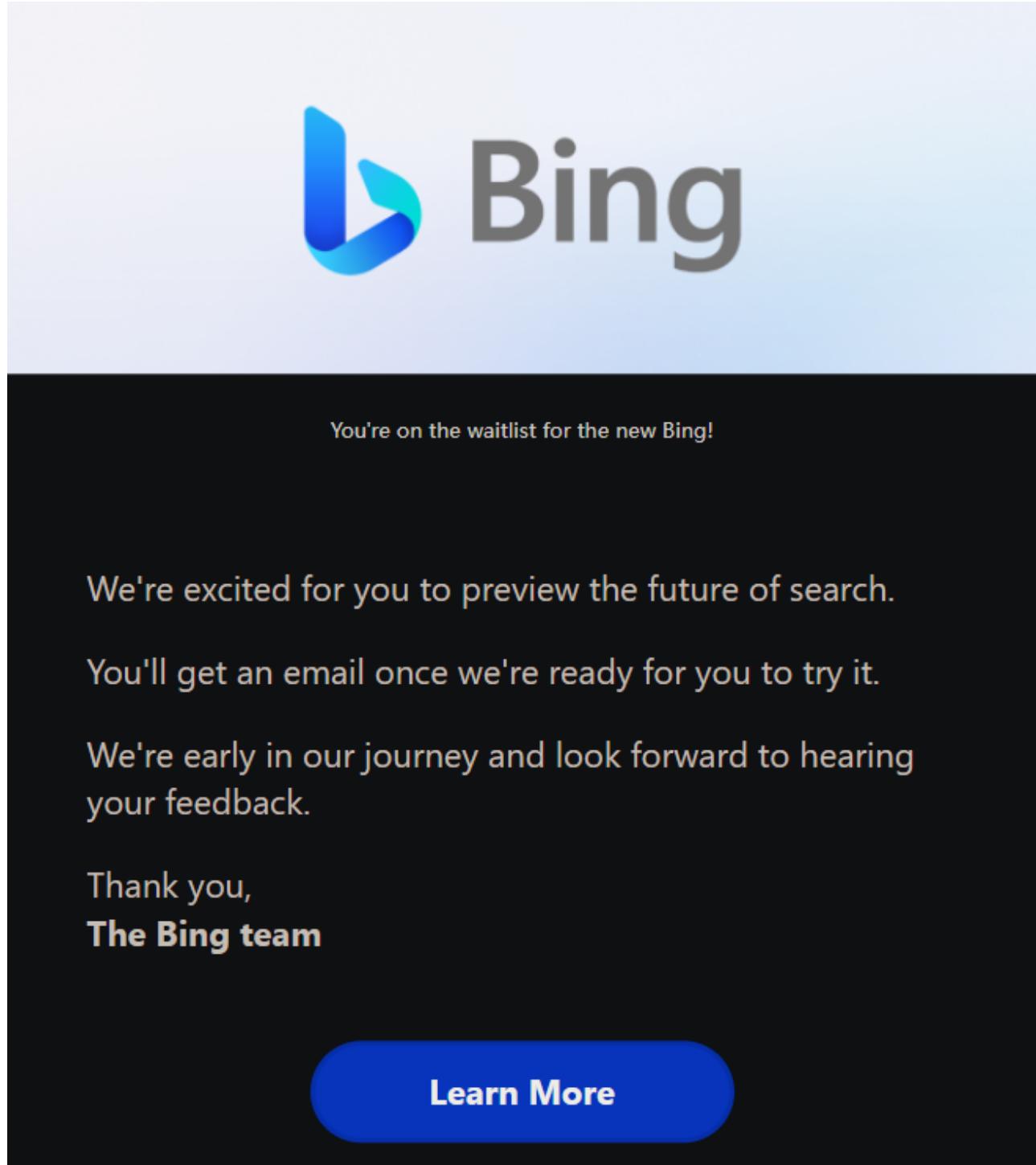
初阶：New Bing

1. 首先你需要一个微软账号，用大家的 edu 邮箱或者自己私人邮箱就行，不作赘述
2. 在官网 [下载 Edge dev](#) 并安装
3. 科学上网后打开 Edge dev，点击右边上角必应图标，会弹出申请按钮，登录微软账号加入等待列表



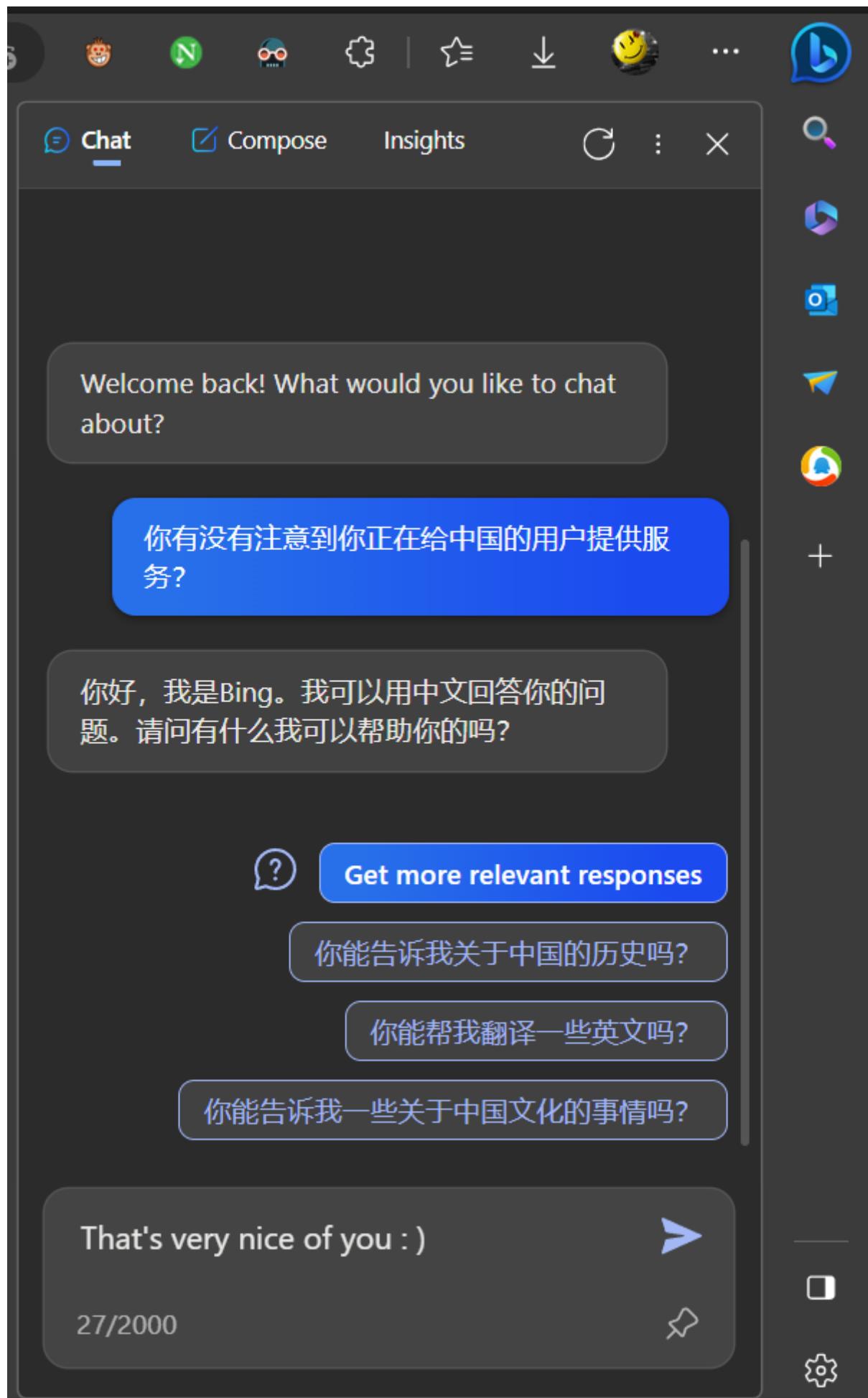
如果不翻墙访问的话这个 icon 不会显示 New Bing

4. 申请成功后会收到邮件



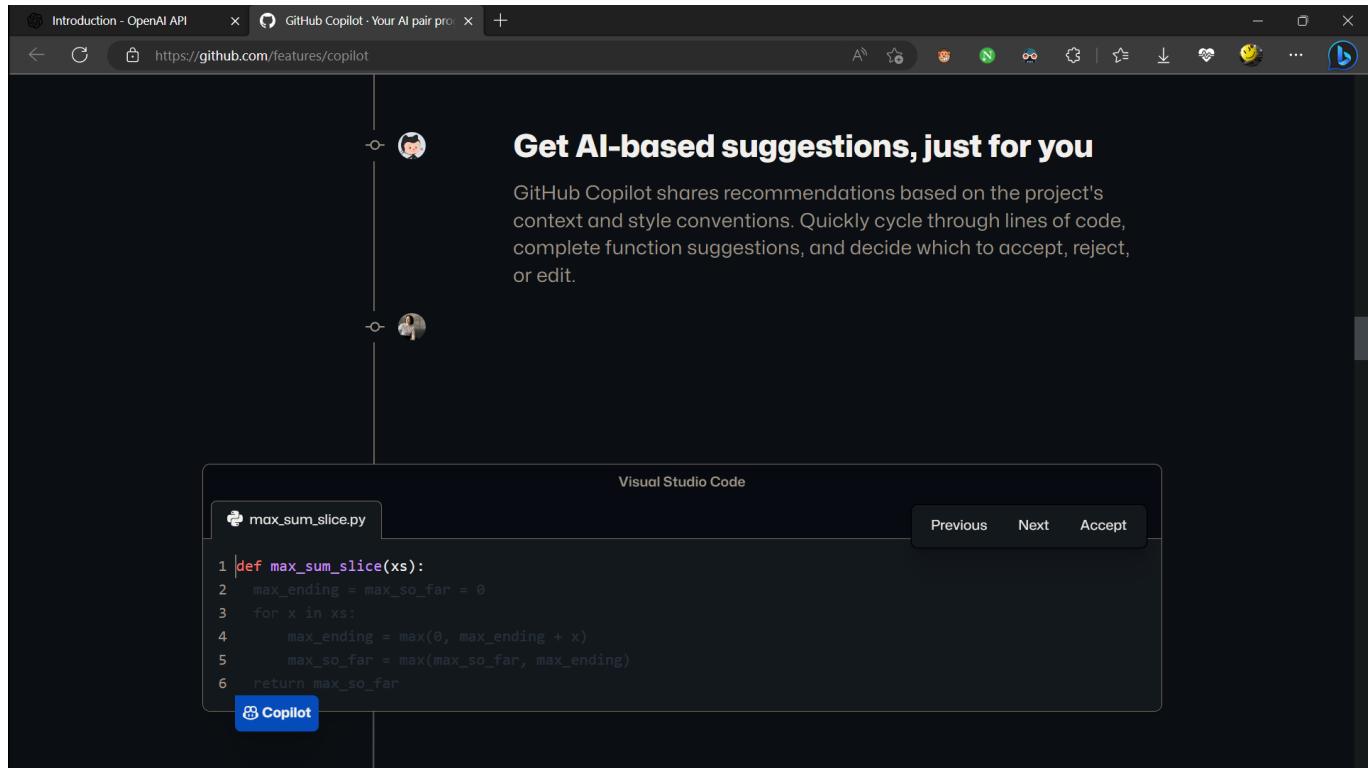
已经在 *waitlist* 里了，但通过时间差别挺大，从一天到半个月不等

5. 等待微软通过后，你会收到欢迎邮件，你就可以使用新必应。等候时间因人而异（奇怪的是笔者从未受到过欢迎邮件，资格倒确实通过了）
6. 资格通过后，你不需要 Edge dev 而只需要发布版 Edge 就可以愉快使用 New Bing（Edge dev 的圆角界面是哪个天才想出来的，太恶心了！）



国内访问 New Bing 比 [ChatGPT playground](#) 方便多了

初阶：GitHub Copilot



GitHub Copilot shares recommendations based on the project's context and style conventions. Quickly cycle through lines of code, complete function suggestions, and decide which to accept, reject, or edit

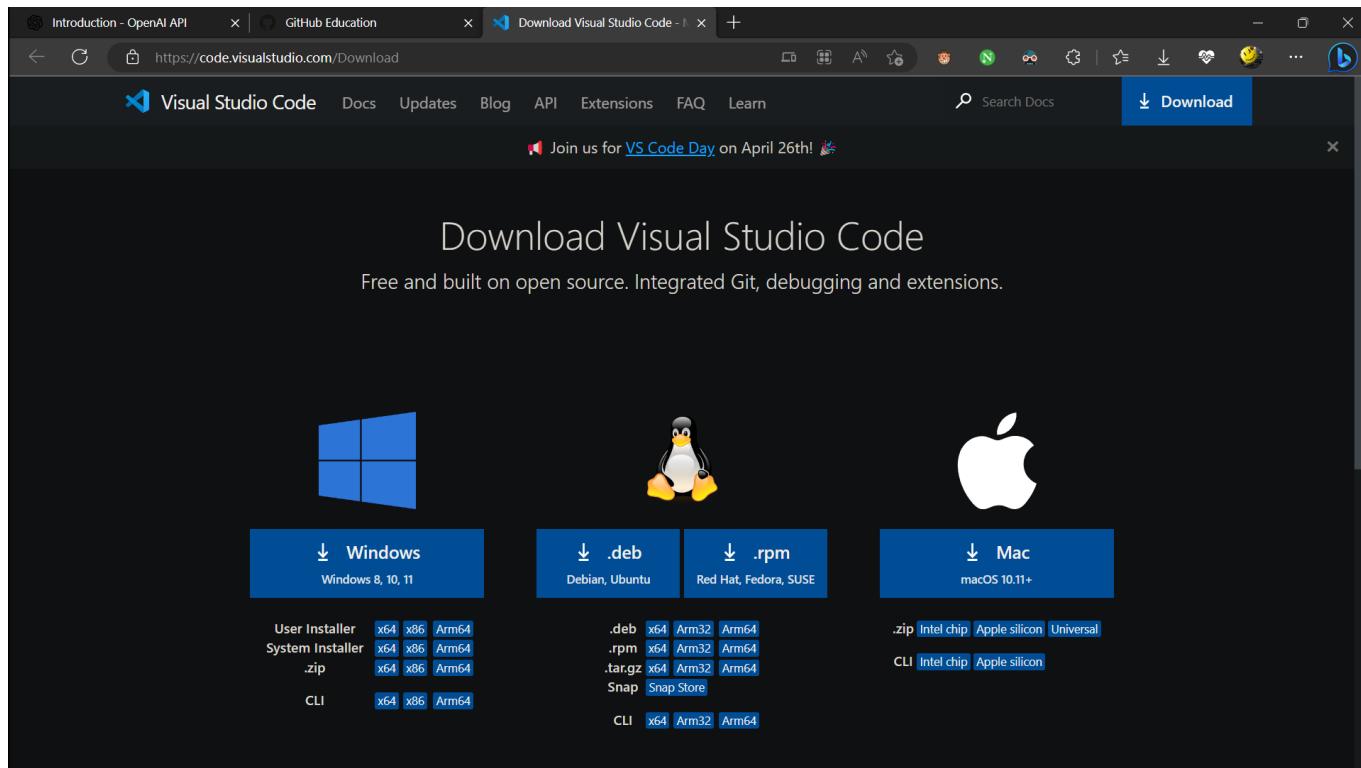
以 VScode 为例，在日常文字/代码工作中使用 GitHub Copilot 与其 experimental features **Optional***

The screenshot shows a browser window for 'GitHub Education' at the URL <https://education.github.com/globalcampus/student>. The page has a teal and purple color scheme. At the top, it says 'Get the most of your GitHub Education experience on GitHub Global Campus. With Global Campus you can access valuable offers in the GitHub Student Developer Pack, view student events, and much more!'. Below this is a 'GitHub.com' header with navigation links for Students, Teachers, Schools, Benefits, Events, Global Campus, and Community Exchange.

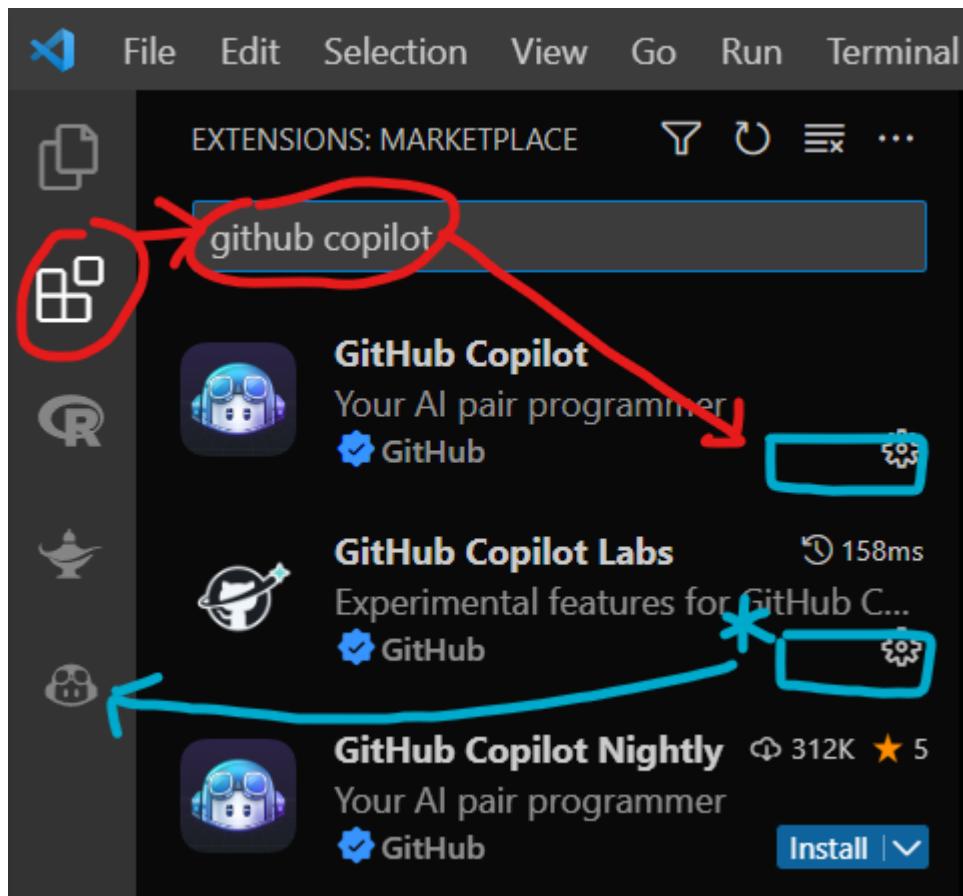
The main content area starts with a greeting 'Hi Sha1rholder, welcome to GitHub Global Campus!' and a location indicator 'Champaign, IL, United States'. It features sections for 'Student Developer Pack offers' (with a 'Explore More Offers' button) and 'Curated Experiences with popular offers' (listing 'Virtual Event Kit', 'Hackathon in the Cloud', 'Aspiring Creatives', 'Primer: Codespaces', 'Career Readiness', 'Intro to Web Dev', and 'Data Science & Machine Learning').

On the right side, there are two columns for the 'Education blog'. The first column has an article by 'Joseph Katsioloudes' on 'March 23, 2023' titled 'Build a secure code mindset with the GitHub Secure Code Game'. The second column has an article on 'March 6, 2023' titled 'Unleash your potential with GitHub'.

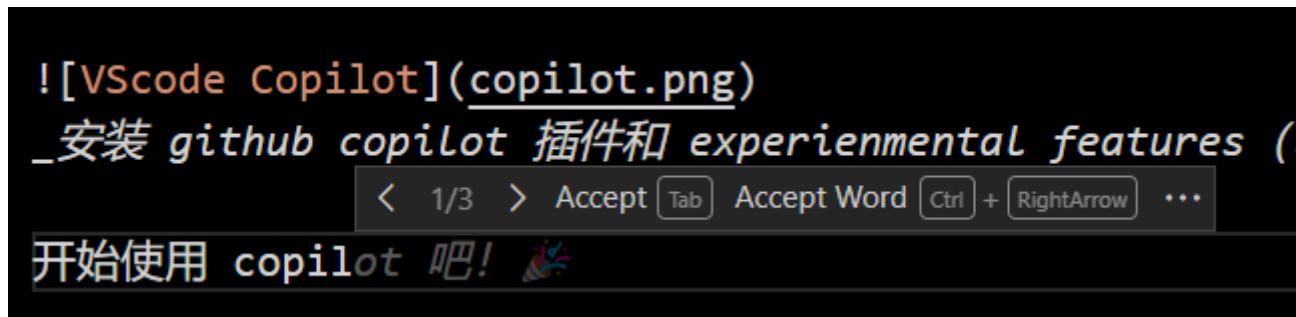
首先你需要一个已通过 GitHub 学生认证的 GitHub 账号（愿意直接掏钱买的大佬除外）



下载 VScode (当然其他支持 Copilot 的 IDE 也行)



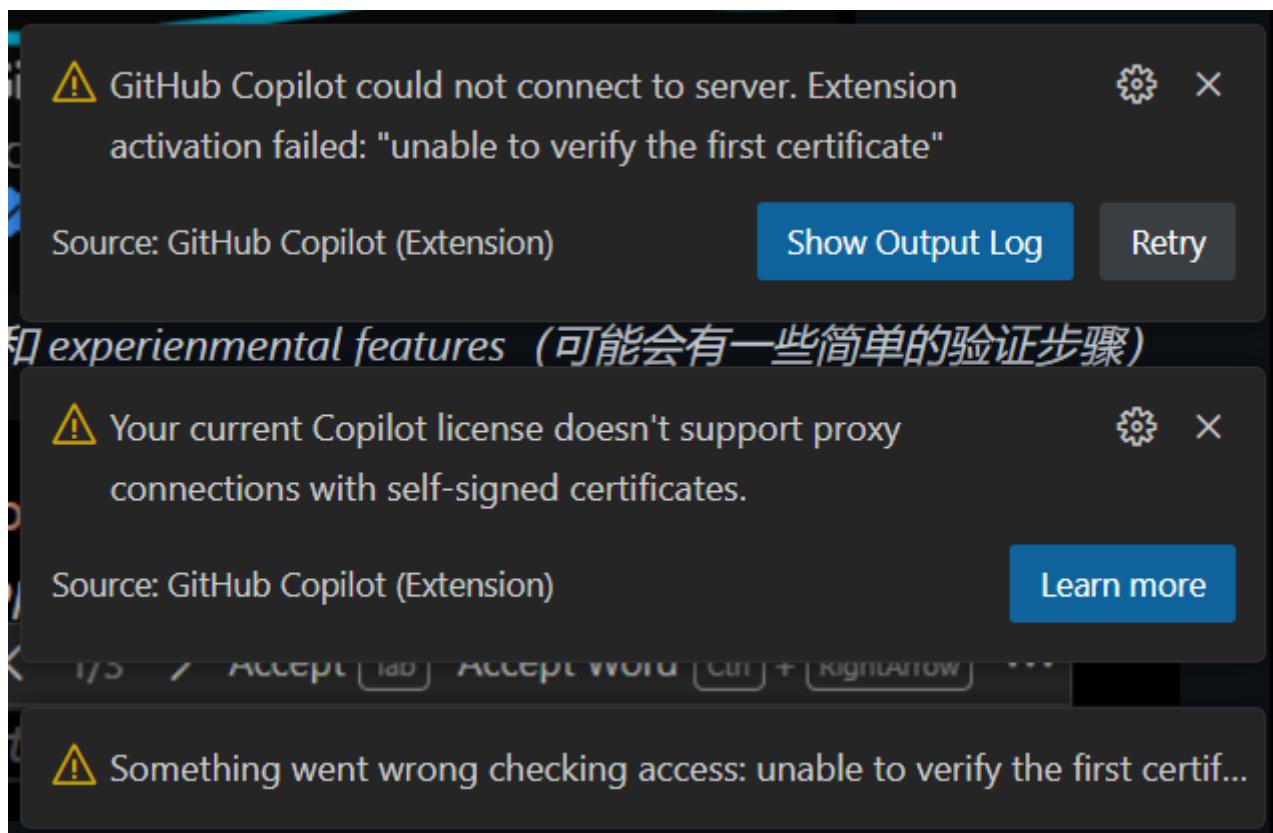
安装 GitHub Copilot 插件和 experimental features (可能会有一些简单的验证步骤)



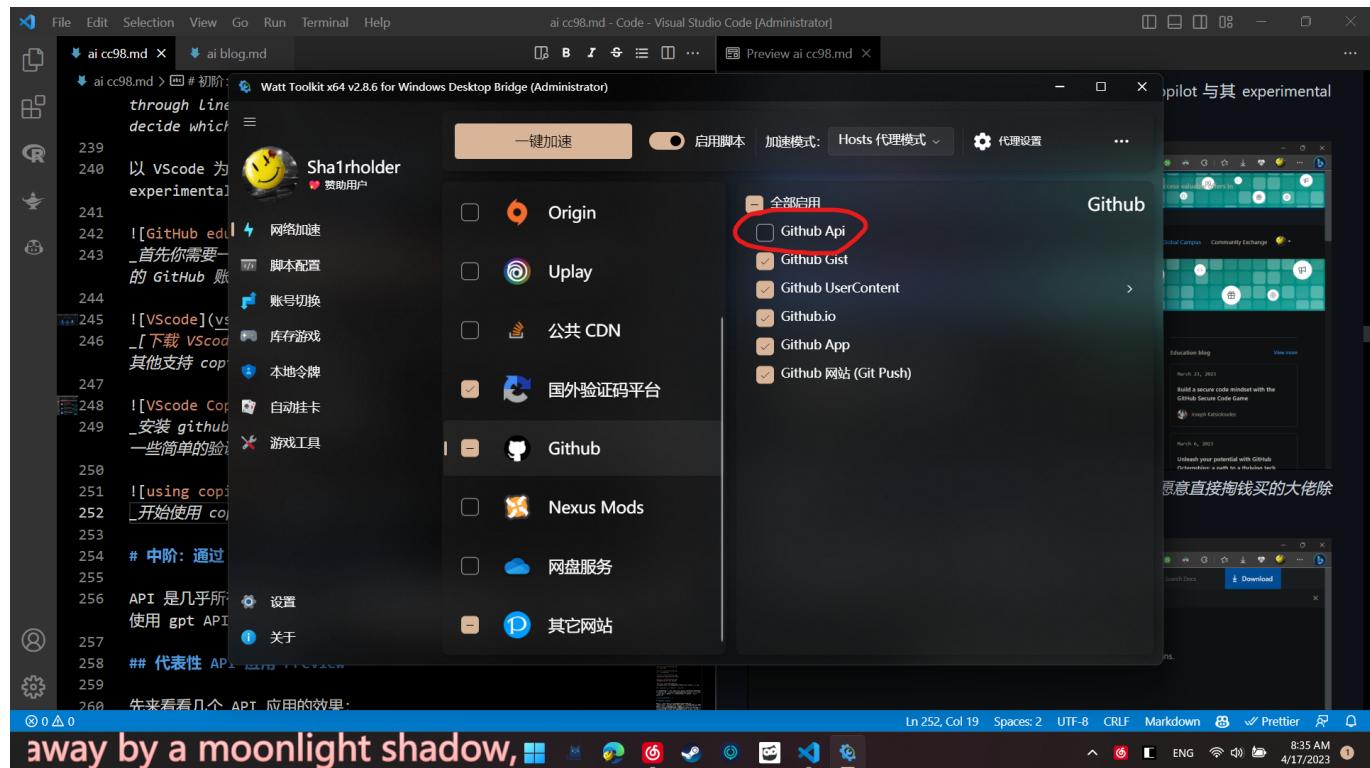
开始使用 Copilot 吧! 🎉

Host 代理引发的错误

某些 host 代理比如 Watt Toolkit 的 GitHub API 加速功能和 Copilot 冲突，使用时需将其关闭



Watt Toolkit host 代理加速 GitHub 引发的错误



取消勾选该项即可

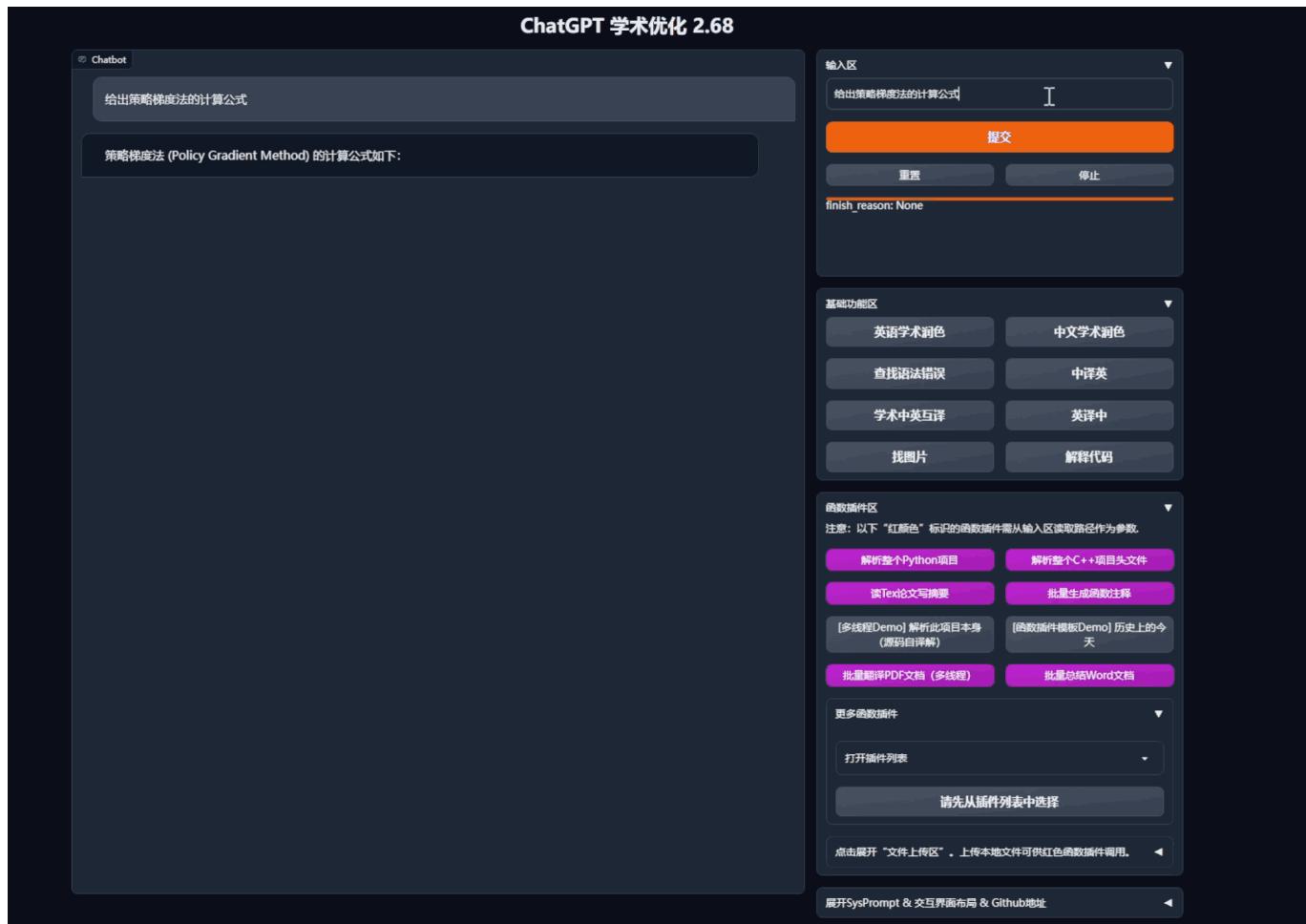
中阶：通过 API 访问 OpenAI 服务

API 是几乎所有基于 OpenAI 服务的应用程序的基础，该部分将举例说明使用 gpt API 的情景和方法。该部分要求你已经拥有一个 OpenAI 账号

代表性 API 应用 Preview

先来看看几个 API 应用的效果：

ChatGPT 学术优化



其实它还支持除 ChatGPT 以外的多种 LLM (大型语言模型)

ChatGPT-academic 是科研工作专用 ChatGPT 拓展，特别优化学术 Paper 润色体验，支持自定义快捷按钮，支持自定义函数插件，支持 markdown 代码块表格显示，Tex 公式双显示，有 Python/C++ 项目剖析/自译解功能，PDF/LaTeX 论文翻译/总结功能，兼容 ChatGLM 等本地模型

ChatGPT - Genie AI

The screenshot shows a Visual Studio Code interface with two tabs: 'markdown.md - Code' and 'draft.txt'. The 'markdown.md' tab displays a conversation with 'Neuro-sama' and a code snippet for 'ChatGPT_academic'. The 'draft.txt' tab shows a preview of the markdown content.

```

193     其实它不只支持 chatgpt 模型
194
195 [ChatGPT_academic](https://github.com/binary-husky/chatgpt_academic) 是科研工作专用 GPT 拓展，特别优化学术 Paper 润色体验，支持自定义快捷按钮，支持自定义函数插件，支持 markdown 代码块表格显示，Tex 公式双显示，有 Python/C++项目剖析/自译解功能，PDF/LaTeX 论文翻译/总结功能，兼容 ChatGLM 等本地模型
196
197     ### ChatGPT - Genie AI
198
199 ![[ChatGPT - Genie AI](genie%20gui.png)]
200 _[点我获取效果预览视频](genie_main)
201 Follow link (ctrl + click)
202 [ChatGPT - Genie AI](https://marketplace.visualstudio.com/items?itemName=genieai.chatgpt-vscode) is Your best AI pair programmer. Save conversations and continue any time. A Visual Studio Code - ChatGPT Integration. Supports GPT-4, GPT3.5, GPT3 and Codex models. Create new files, view diffs with one click; your copilot to learn code, add tests, find bugs and more
203
204     ### Interactive Simulacra of Human Behavior
205
206 [view paper on web](https://arxiv.org/abs/2304.03442)
207 [view paper as pdf](chatgpt%20town.pdf)
208 [play demo](https://reverie.herokuapp.com/arXiv_Demo/)
209
210 Park, J.S., O'Brien, J.C., Cai, C.J., Morris, M.R., Liang, P. and Bernstein, M. S., 2023. Generative Agents: Interactive Simulacra of Human Behavior. arXiv preprint arXiv:2304.03442.
211
212 > ![[game demo](chatgpt%20town.jpg)]
213 > Generative agents create believable simulacra of human behavior for interactive

```

[获取效果预览视频.mp4](#)

ChatGPT - Genie AI is Your best AI pair programmer. Save conversations and continue any time. A Visual Studio Code - ChatGPT Integration. Supports GPT-4, GPT3.5, GPT3 and Codex models. Create new files, view diffs with one click; your Copilot to learn code, add tests, find bugs and more

Interactive Simulacra of Human Behavior



Generative agents create believable simulacra of human behavior for interactive applications

Park, J.S., O'Brien, J.C., Cai, C.J., Morris, M.R., Liang, P. and Bernstein, M.S., 2023. Generative Agents: Interactive Simulacra of Human Behavior. arXiv preprint arXiv:2304.03442.

[view on arxiv.org](#) [view pdf](#) [play game demo](#)

申请 API key

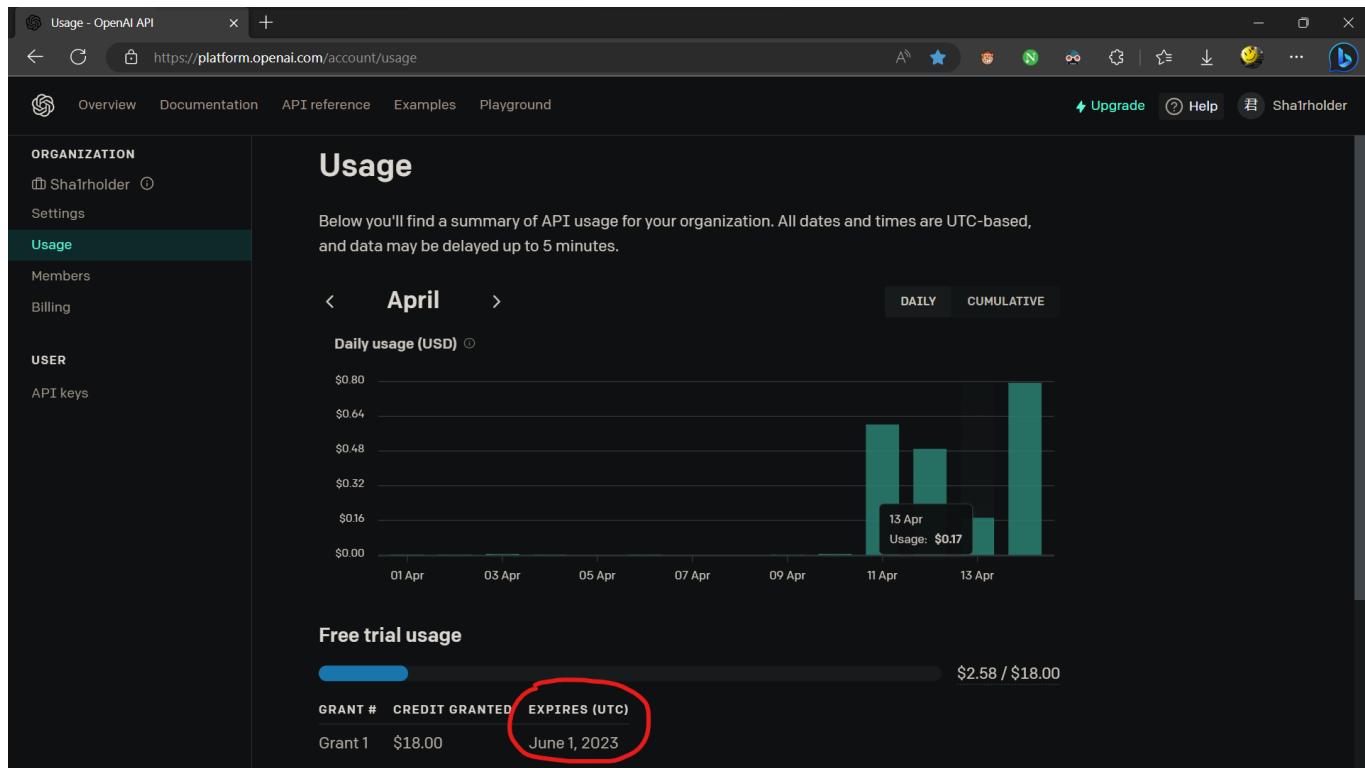
3月前注册的OpenAI账户一般有18美元免费额度，有效期至6月30日；而3月1日之后注册的账号免费额度只有5美元，有效期到7月，注册时间往后推移，有效期也会向后推移。这些钱将是你接下来使用基于API的OpenAI服务的基础（有海外信用卡的大佬除外），你将开始使用API来访问OpenAI服务。从创建API key开始

The screenshot shows the 'API keys' section of the OpenAI platform. On the left, there's a sidebar with 'Organization' and 'User' sections. Under 'User', 'API keys' is selected and highlighted in green. The main content area has a heading 'API keys' and a note: 'Your secret API keys are listed below. Please note that we do not display your secret API keys again after you generate them.' Below this, another note says: '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 rotate any API key that we've found has leaked publicly.' A table lists an existing API key: 'Secret key' with key value 'sk-...mmz1', created on 'Feb 27, 2023' and last used on 'Apr 15, 2023'. At the bottom of the table is a button '+ Create new secret key', which is circled in red.

在OpenAI官网[创建和管理API key](#)

The screenshot shows a modal dialog titled 'Create new secret key'. It contains a warning message: '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 the message is a text input field containing the generated API key: 'sk-qDMU...', with the first few characters 'sk-' circled in red. To the right of the input field are two buttons: 'D5' and a copy icon. At the bottom right of the dialog is a 'Done' button.

复制API key 注意：请妥善保存你的API key，因为你将再也看不见它



你可以在 [account > usage](#) 处管理你的 API key，免费账户的额度会自动过期

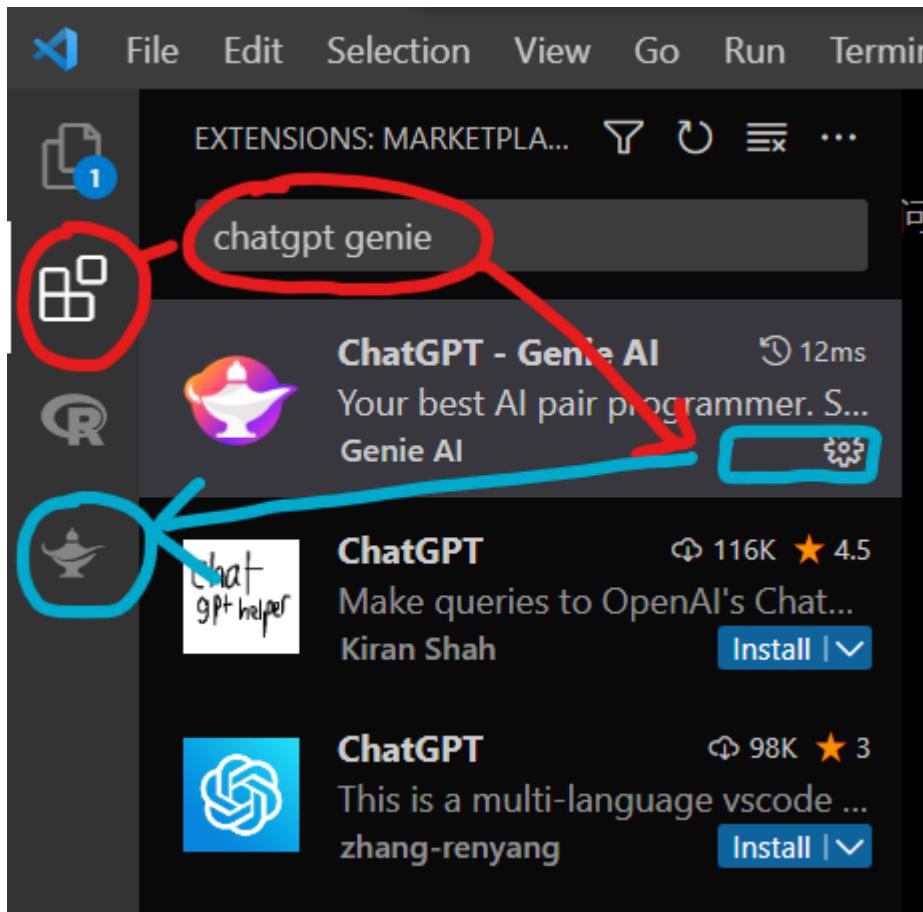
使用 OpenAI API

你可以用任何语言通过 HTTP 请求与 API 进行交互，使用我们的官方 Python 接口、官方 Node.js 库或由社区维护的库 <https://platform.OpenAI.com/docs/API-reference>

VScode: ChatGPT-Genie

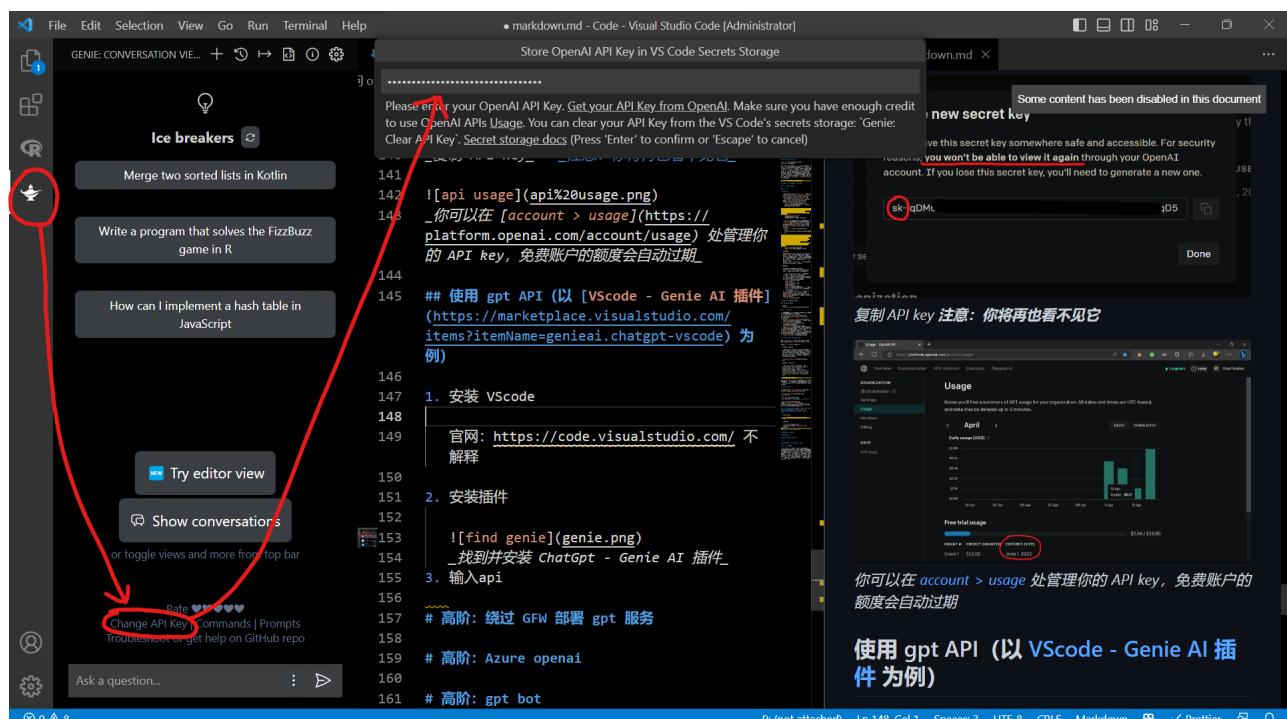
该部分面向使用 VScode 的用户，以 [VScode Genie AI 插件](#) 为例介绍如何使用 OpenAI API

1. 安装 VScode 插件



找到并安装 ChatGPT - Genie AI 插件，成功后会在左侧显示 Genie 图标

2. 输入 API key



在这里输入你的以 sk- 开头的 API key

3. **Optional*** 优化插件设置

找到 VScode 设置文件 setting.json (通常在 C:\Users\用户名\AppData\Roaming\Code\User\settings.json) · 在最外层的花括号中输入以下设置或按需在 GUI 中修改

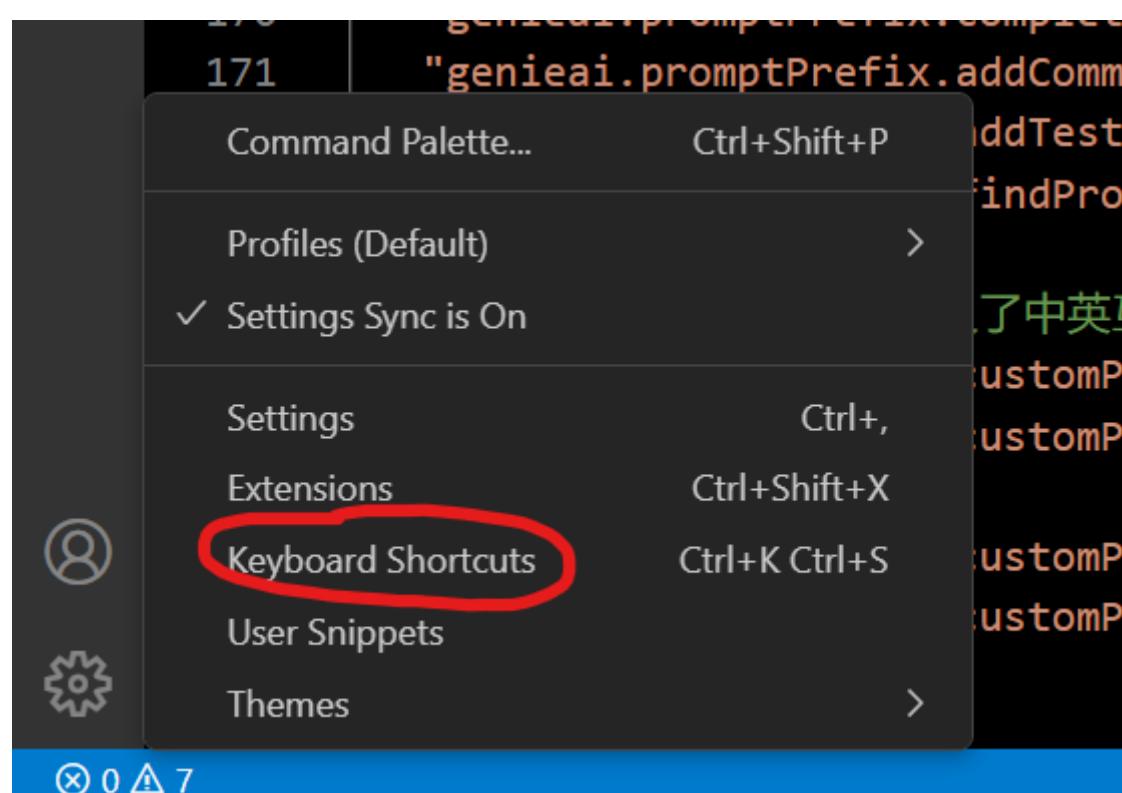
Genie 插件设置

```
// 自定义对话精灵名称 ( 你最好不认识她它 )
"genieai.personalizedName": "Neuro-sama",

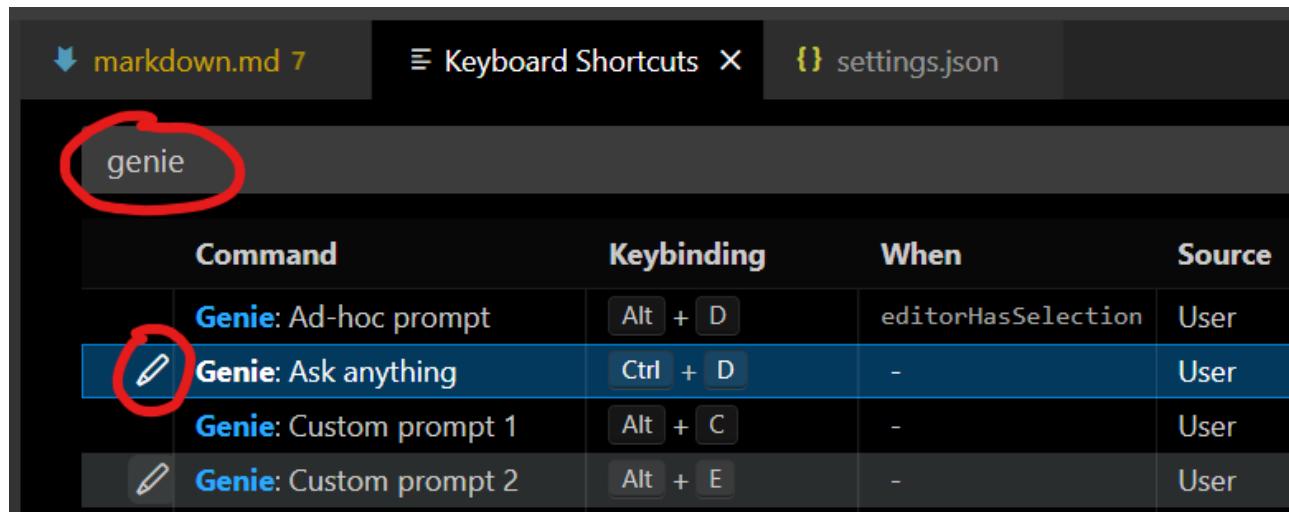
// 禁用不常用功能
"genieai.promptPrefix.completeCode-enabled": false,
"genieai.promptPrefix.addComments-enabled": false,
"genieai.promptPrefix.addTests-enabled": false,
"genieai.promptPrefix.findProblems-enabled": false,

// 开启自定义前缀 ( 我定义了中英互译 )
"genieai.promptPrefix.customPrompt1-enabled": true,
"genieai.promptPrefix.customPrompt1": "Translate to Chinese",
"genieai.promptPrefix.customPrompt2-enabled": true,
"genieai.promptPrefix.customPrompt2": "Translate to English",

// 允许储存对话记录
"genieai.enableConversationHistory": true,
```



进入 VScode 快捷键编辑 GUI



搜索 *genie*，修改你想要的快捷键。以上是我个人的绑键策略

4. 开始使用

配置科学上网环境，但使用 API 时无需担心浏览器环境！

```

GENIE: CONVERSATION VIEW
向 cc98 论坛的大家介绍一下你自己
@ Neuro-sama
各位 cc98 论坛的朋友们，我是 Neuro-sama。作为一名专业的开发者和编程专家，我有多年的经验，在各种编程语言和技术方面都非常熟练。我喜欢帮助他人解决编程难题，并与大家分享我的知识和经验。在这里，我将尽最大的努力帮助大家解决任何与编程相关的问题。感谢您的关注！

@ You
你可以如何帮助你的用户们

@ Neuro-sama
作为一个编程专家，我可以通过以下方式帮助我的用户：
1. 回答编程相关的问题：如果用户在编程方面遇到了困
Ask a question... : >

```

```

markdown.md - Code - Visual Studio Code [Administrator]
markdown.md x draft.txt
markdown.md > # 中阶: 用 API 访问 openai 服务 > ## 效果 preview > ### ChatGPT - Genie AI
193 真实它不只支持 chatgpt 模型
194
195 [ChatGPT_academic](https://github.com/binary-husky/chatgpt_academic) 是科研工作专用 GPT 拓展，特别优化学术 Paper 润色体验，支持自定义快捷按钮，支持自定义函数插件，支持 markdown 代码块表格显示，Tex 公式双显示，有 Python/C++项目剖析/自译解功能，PDF/LaTeX 文档翻译/总结功能，兼容 ChatGLM 等本地模型
196
197 ### ChatGPT - Genie AI
198
199 ![[ChatGPT - Genie AI](genie%20gui.png)
200 _[点我获取效果预览视频](/ani_mn4)
Follow link (ctrl + click)
201
202 [ChatGPT - Genie AI](https://marketplace.visualstudio.com/items?itemName=geniesai.chatgpt-vscode) Your best AI pair programmer. Save conversations and continue any time. A Visual Studio Code - ChatGPT Integration. Supports GPT-4, GPT3.5, GPT3 and Codex models. Create new files, view diffs with one click; your copilot to learn code, add tests, find bugs and more
203
204 ### Interactive Simulacra of Human Behavior
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206 [view paper on web](https://arxiv.org/abs/2304.03442)
207 [view paper as pdf](chatgpt%20town.pdf)
208 [play demo](https://reverie.herokuapp.com/arXiv_Demo/)
209
210 Park, J.S., O'Brien, J.C., Cai, C.J., Morris, M.R., Liang, P. and Bernstein, M. S., 2023. Generative Agents: Interactive Simulacra of Human Behavior. arXiv preprint arXiv:2304.03442.
211 > ![game demo](chatgpt%20town.jpg)
212 > Generative agents create believable simulacra of human behavior for interactive
213

```

给项目点个 Star

Android: Alissu GPT

[Alissu: Chat with AI](#) 是 Google Play 中最受欢迎、最简洁、最方便的基于 OpenAI API 的安卓 gpt 应用之一。该项目允许你使用公共 API key 进行少量临时的查询，但你也可以上传自己的 API key（据其团队称不会云储存用户的 API key，但由于其似乎并非开源项目因此对 API 保密有特别高需求的同学应谨慎对待）来无限制使用 Davinci 等更昂贵的模型，获取更多的查询次数并大幅减少广告。

Alissu: Chat with AI

Ekmen
包含广告

3.9★
1870条评论
10万+
下载次数
12+
12 岁以上

安装
添加到心愿单

在您的设备上可以使用此应用

开发者联系信息
类似应用
Chatbeast | All-in-one AI chat
Teqqed

在你的安卓设备上 [安装 Alissu](#)。如果你没有 google play，也可以从我的 Azure 容器中下载

6:43

Change AI

Contributors

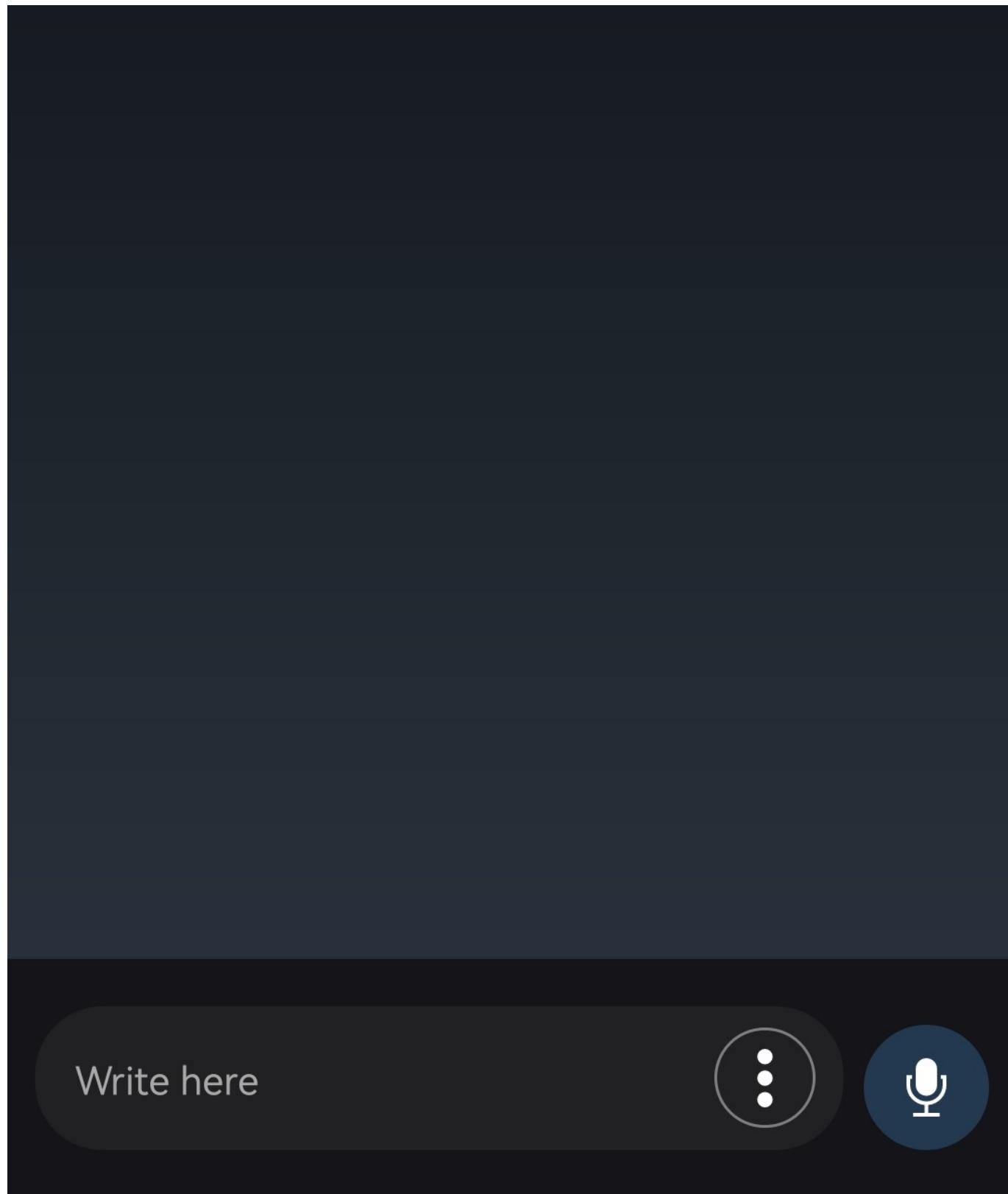
Add Key

History

Feedback

Join Us

Settings



点击右上角☰ 符号 Add Key，添加你的 Optnai API key（暂不支持 Azure OpenAI API）并修改你想用的模型（推荐 Turbo）

相关教程：[在安卓手机上配置科学上网环境并安装谷歌服务](#)

高阶：部署墙内可用的 ChatGPT “镜像”

然而，每次总需要翻墙才能使用 gpt，这样的体验实在是太糟糕了。本文将介绍如何用 Netlify 托管部署你自己的 ChatGPT “镜像”，使你可以无需翻墙使用 gpt API，还可以让你不会翻墙的家人们随时使用 OpenAI 服务。

GitHub 开源项目 [ChatGPT-demo](#) 已经为你做好了一个 ChatGPT 镜像网站，万事俱备，你只需要部署+上传自己的 API key 即可。此部分默认你拥有基础的网络常识，初步掌握使用 gpt API 的方法，并拥有一个 GitHub 账号。就算啥都没有也不要紧反正简单得很 (●'◡'●)／＼—————

先上用例：<https://glittery-zabaione-7c5781.netlify.app/>

The screenshot shows a dark-themed web application interface. At the top left is a small gray robot icon. The title "ChatGPT Demo" is displayed in large, bold, white and blue letters. Below it, a subtitle reads "Based on OpenAI API (gpt-3.5-turbo)." A user message is shown with the text "你是一只雪豹" and a purple circular profile picture. The AI's response follows, with a green circular profile picture and the text: "我会悄悄地潜近岩羊，尽可能不被它们察觉。我会利用我的敏捷和强壮的身体，靠近它们并一跃而起，瞬间咬住它们的脖子。然后我会将岩羊带回我的巢穴，享用美味的食物。作为一只雪豹，我需要每天摄取足够的蛋白质和营养物质来维持我的健康和生命力。". A "Regenerate" button is located below the AI's message. At the bottom, there is a dark blue input bar containing the text "芝就是士雪豹" with a thumbs-up emoji, and two buttons labeled "Send" and a small icon.

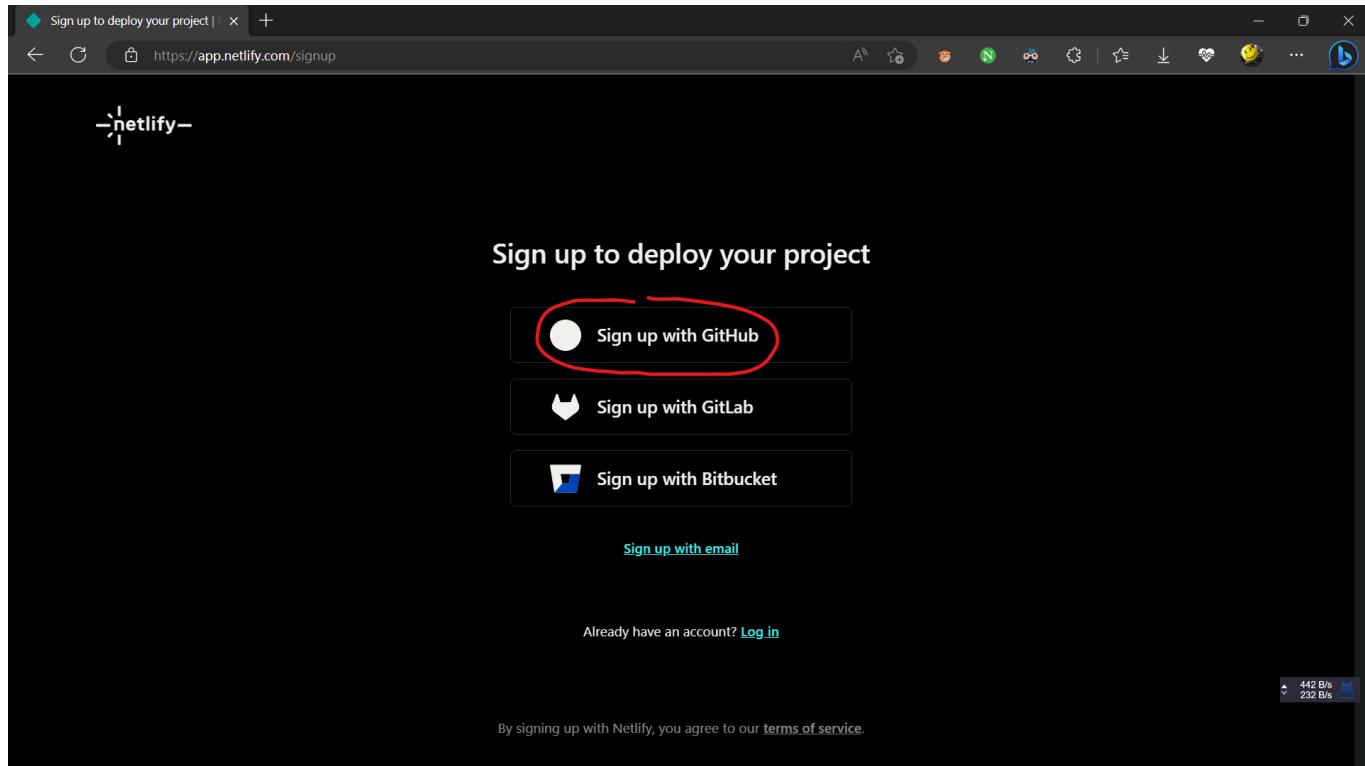
Made by Diu | [Source Code](#)

我自己部署的公益项目，大家随便用

前置条件

确保自己拥有一个可用的 GPT-3.5-Turbo API

[Netlify](#) 是一家美国云计算公司，可以为用户提供静态网页托管服务

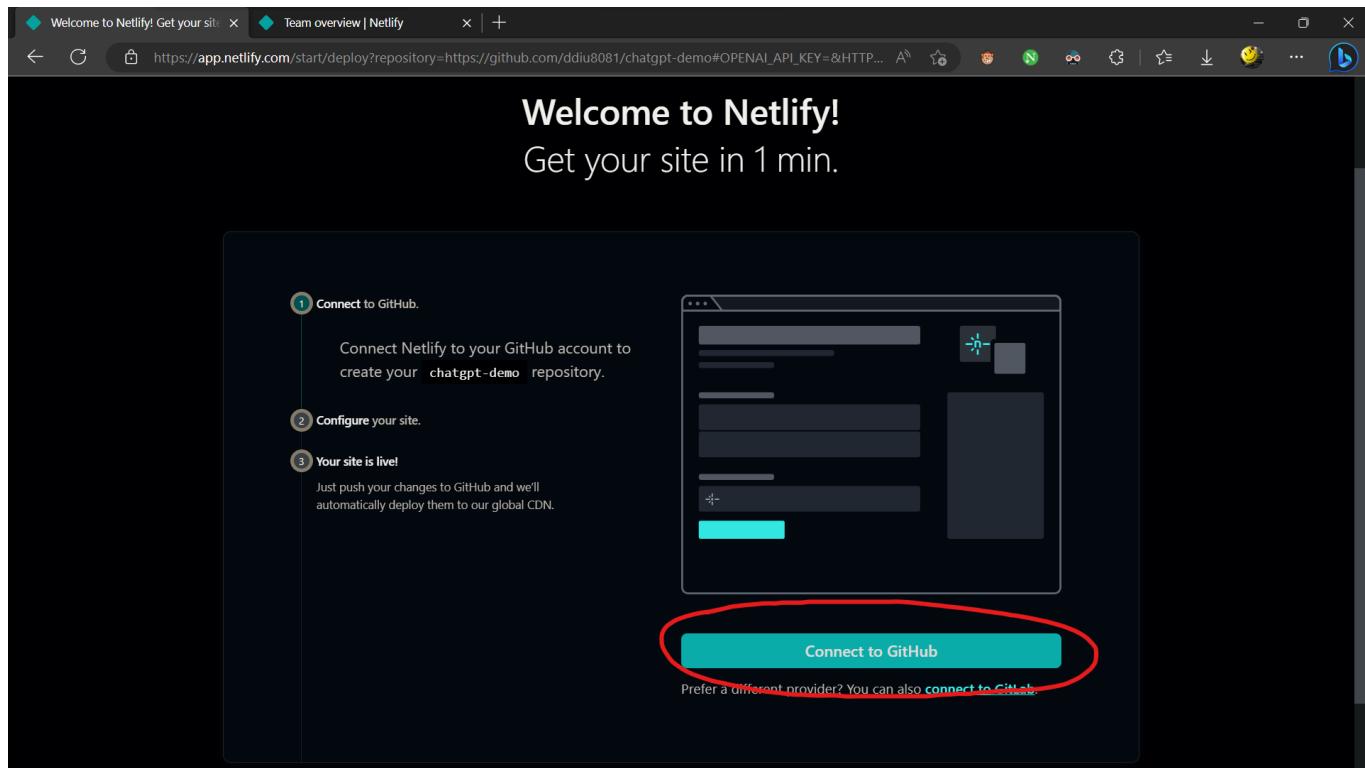


用 GitHub 账号注册 Netlify，如果 GitHub 打不开可以用 [Watt Toolkit](#) 加速

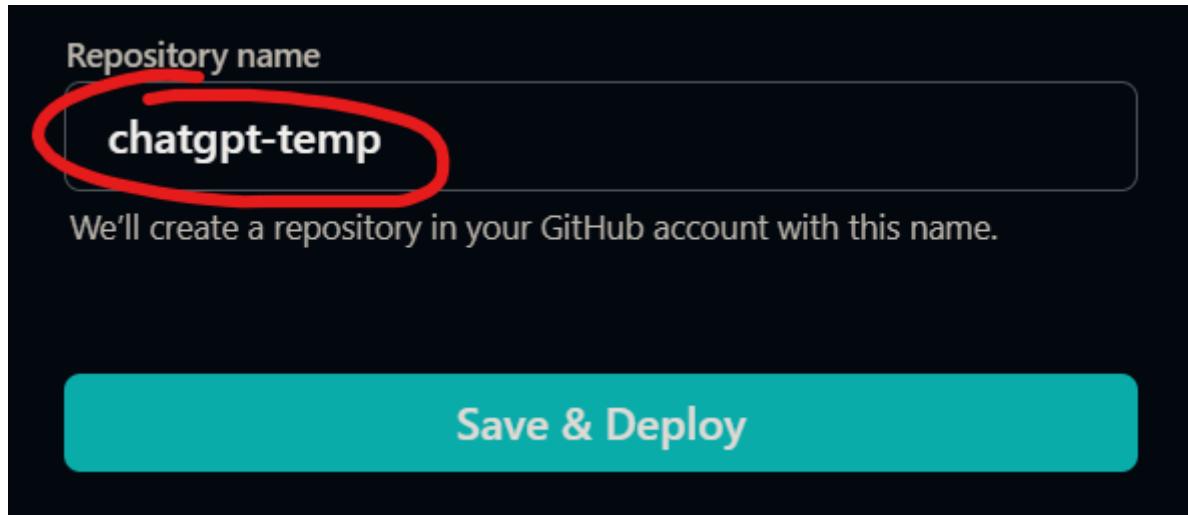
一键部署

克隆开源 ChatGPT “镜像” [ChatGPT-demo](#) 到你的 GitHub repository 并部署服务

一键克隆+部署



链接到你的 GitHub



给你的repository 取个名

A screenshot of a Netlify deployment progress page. The URL in the address bar is https://app.netlify.com/sites/poetic-marzipan-6096b2/deploy/6439c06f06e2bc4c97131efd. The main heading is "Sha1rholder's team > poetic-marzipan-6096b2". On the left, a box displays "Deploy in progress for poetic-marzipan-6096b2" with the message "Netlify's robots are busy building and deploying your site to our CDN." It shows the deployment started "Today at 5:06 AM" and is currently "Production: main@HEAD". There are "Cancel deploy" and "Deploy settings" buttons. On the right, a box says "Fancy a game while you wait?" with the message "We're on a mission to find the cutest emoji." It features a "Play game" button and a small emoji icon. At the bottom, a "Deploy log" section shows the following log entries:

```
1 5:06:59 AM: build-image version: 91488c6c0412f5c1c00fb34eff5c1fc41a32bce9 (focal)
2 5:06:59 AM: buildbot version: 91488c6c0412f5c1c00fb34eff5c1fc41a32bce9
3 5:06:59 AM: Fetching cached dependencies
4 5:06:59 AM: Failed to fetch cache, continuing with build
5 5:06:59 AM: Starting to prepare the repo for build
6 5:06:59 AM: No cached dependencies found. Cloning fresh repo
7 5:06:59 AM: git clone --filter=blob:none https://github.com/ddiu8081/chatgpt-demo
```

等待部署完成 (约2分钟)

The screenshot shows the Netlify Deploy details page for a site named "poetic-marzipan-6096b2". The deployment was made at 5:06 AM using the "Astro" build command. It processed 2 new files, 4 redirect rules, and 1 header rule. A "Play game" button is visible on the right.

部署成功！

添加 API key

我们还需要为网站添加 API key 来驱动它

The screenshot shows the Netlify Deploy details page for the same site. The "Options" dropdown menu is open, and the "Deploy settings" option is highlighted with a red circle.

打开部署设置

The screenshot shows the Netlify Site settings interface for the site `poetic-marzipan-6096b2`. The left sidebar has a red circle around the **Environment variables** link under the **Build & deploy** section. The main content area is titled **Continuous deployment**, which is described as "Settings for continuous deployment from a Git repository". It shows that the site is linked to a Git repository at `github.com/Sh1rholder/chatgpt-temp`. A red arrow points from the "Edit" button next to the `OPENAI_API_KEY` variable to the "Edit" button in the top right corner of the environment variables table.

打开环境变量界面

The screenshot shows the Netlify Environment variables page. The left sidebar has a red circle around the **Environment variables** link under the **Build & deploy** section. The main content area lists environment variables. The `OPENAI_API_KEY` variable is highlighted with a red circle and an arrow pointing to the "Edit" button in the table. The table columns are **Deploy context** and **Value**.

| Deploy context | Value |
|---------------------------------|---------|
| Production | ⚠ Empty |
| Deploy Previews | ⚠ Empty |
| Branch deploys | ⚠ Empty |
| Local development (Netlify CLI) | ⚠ Empty |

找到并修改 `OpenAI_API_KEY` 变量

OPENAI_API_KEY

All scopes · 1 value in 1 deploy context

Key:

Scopes:

All scopes

Specific scopes
Limit this environment variable to specific scopes, such as builds, functions, or post processing [Upgrade to unlock](#)

Same value for all deploy contexts

Different value for each deploy context
Use different environment variable values for production, Deploy Previews, branch deploys, and local development (Netlify CLI)

Filter by key name Any scope Any context Sort

Values:

Production [Edit](#)

Most values that are set for production should also be set for Deploy Previews, so that these contexts match in behavior

Deploy Previews [Edit](#)

Branch deploys [Edit](#)

This value applies to all branch deploys. You can [override the value on a specific branch](#)

Local development (Netlify CLI) [Edit](#)

+ Add a branch value (optional)

[Save variable](#) [Cancel](#)

输入你自己的 API key 并保存

The screenshot shows the Netlify site settings page for a site named "poetic-marzipan-6096b2". The URL "poetic-marzipan-6096b2.netlify.app" is circled in red. The page includes a sidebar with options like General, Build & deploy, Environment variables (which is selected), and Analytics. The main content area displays environment variables with a search bar and sorting options.

恭喜你现在可以随时随地无需翻墙访问你自己的 ChatGPT “镜像”了

Optional* 更换模型和 Base URL

本部分需要你提前掌握下一章节 Azure OpenAI 的内容，如果你不想了解，可以跳过这一部分。该部分将介绍如何更换 ChatGPT “镜像”的模型和 Base URL，使你可以使用任何你想要的模型，或更换为 Azure OpenAI API

To be continued...

高阶：Azure OpenAI

现在我们再要用 GPT-3.5 已经不需要翻墙了，但可怜的 ~~Neuro-sama~~ ChatGPT Genie 还在墙内，使用起来不仅得翻墙，速度还慢，又经常出岔子。因此，我们隆重推出：**Macrohard Azure OpenAI**。它不仅墙内还直接可用，速度还比 OpenAI 的 API 快很多，甚至还有对学生每年整整 100 美刀的免费额度，~~甚至对于大型企业而言还大大提高了数据安全性和可控性（但这个你们应该不 care）！~~！

Let's start

该部分以使用 Azure OpenAI API 取代原生 OpenAI API 使用 VScode Genie 插件为例介绍如何使用 Azure OpenAI API。此部分需要你具有一定网络知识，掌握使用 gpt API 的方法，并拥有一个已通过 GitHub 学生认证的 GitHub 账号

Azure 学生认证

The screenshot shows a web browser window for the Azure Student Free Account page. The title bar reads "面向学生的 Azure - 免费帐户额度". The URL is https://azure.microsoft.com/zh-cn/free/students/. The main heading is "使用面向学生的 Azure 在云中免费生成内容". Below it, a subtext says "每年是学生时，使用大学或学校电子邮件进行注册和续订". There are two buttons: "免费开始使用" (Free Start) and "了解资格" (Learn Qualifications). The central message area features two boxes: one with "从 \$100 Azure 额度开始" and another with "无需信用卡". Below these is a plus sign followed by "免费服务". A note at the bottom states "获得额度时免费获取热门服务。".

完成 [Azure 学生认证](#) 前提是先通过 **GitHub** 学生认证！



Start using your Azure for Students credit

Welcome to Azure for Students! Your account includes a USD100 credit, good for up to a year. Use your credit to try popular Azure products including virtual machines, artificial intelligence, and databases.

[Get started >](#)



Build the skills you need for your career with free, hands-on learning modules in [Microsoft Learn](#). You get instant, in-browser access to Microsoft tools, so modules don't count against your USD100 Azure for Students credit.

Account information

Subscription ID: d325 [REDACTED] 398

Subscription name: Azure for Students

*Depending on the country in which you sign up for your Azure account, you may receive this credit in a specified local currency.

申请通过后会受到一封确认邮件，其中包含你的 *Subscription ID*

申请 Azure GPT-3.5 API

如实填写 [Azure GPT-3.5 申请表](#)，以下是几个需要稍微注意的地方：

3

How many Azure Subscription ID's would you like to have access to this service? *

- 1
- 2
- 3

有几个就填几个 (通常是一个)

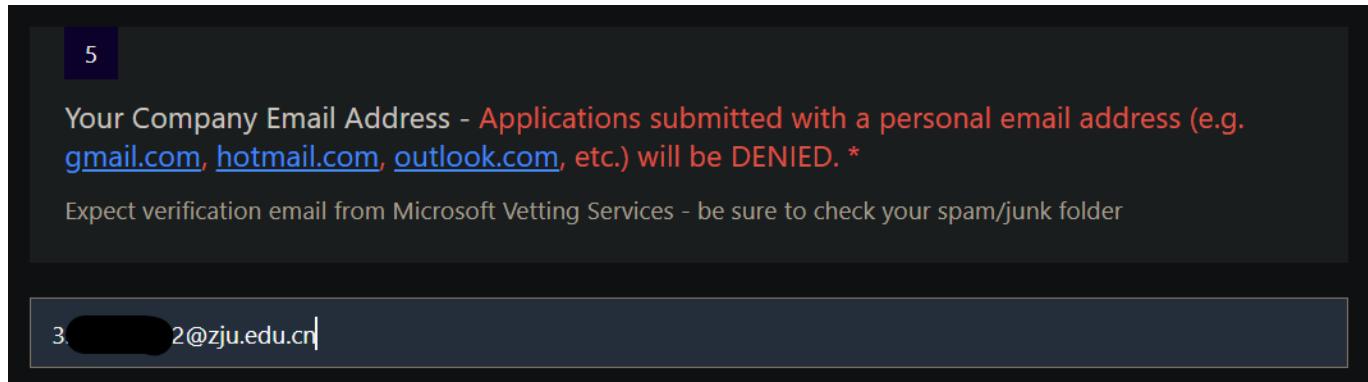
4

Please provide your 1st Azure Subscription ID (not your Tenant ID)

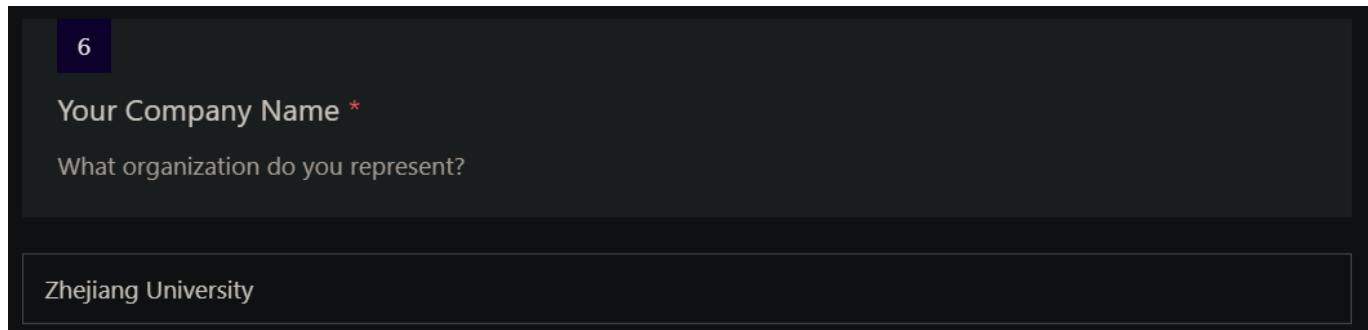
Subscription must belong to your organization. If you do not enter a valid Subscription ID, your application will be DENIED. Don't know your Azure Subscription ID? See article for help: <https://aka.ms/get-subscription-id> *

The screenshot shows the Microsoft Azure (Preview) portal. At the top, there is a navigation bar with 'Microsoft Azure (Preview)' and a search bar. Below the navigation bar, the 'Subscriptions' page is displayed. On the left, there is a sidebar with 'Azure services' and a 'Create a resource' button. The main area shows a list of subscriptions. At the top of this list, there are buttons for 'Add', 'Manage Policies', 'View Requests', and 'View eligible subscriptions'. Below these buttons are filters for 'Search for any field...', 'Subscriptions == global filter', 'My role == all', and 'Status == all'. The subscription list includes columns for 'Subscription name', 'Subscription ID', 'My role', and 'Specified access'. A red rectangular box highlights the 'Subscription ID' column. At the bottom of the page, there is a text input field labeled 'Enter your answer'.

把你邮件里的 Subscription ID 填进去



用你高贵的 *EDUmail* 而不是私人邮箱



你浙

后面按需填就行，可惜我没法重新给你们变出一张表单提交成功的图来

部署 Azure OpenAI 服务

This screenshot shows the Azure Cognitive Services dashboard. The left sidebar lists services: Overview, All Cognitive Services, Azure OpenAI (selected), Speech, and Language. The main area displays a table for Azure OpenAI resources. A red circle highlights the "+ Create" button at the top left of the table header. The table shows one record: "Sha1holder-gpt" (Kind: OpenAI, Location: East US, Pricing tier: S0). Navigation controls at the bottom include "Page 1 of 1" and "Give feedback".

进入 [Azure OpenAI dashboard](#) 创建 OpenAI 服务

The screenshot shows the 'Create Azure OpenAI' wizard on the Microsoft Azure portal. The 'Instance Details' step is being completed. A red arrow points to the 'Name' input field, which contains 'temp'. Below the field, two error messages are displayed: 'The sub-domain name is already used. Please pick a different name.' and 'The provided sub-domain name is either invalid or already in use. Please pick a different name.' The 'Region' dropdown is set to 'East US'. The 'Pricing tier' dropdown is empty. At the bottom, there are '< Previous' and 'Next' buttons, with 'Next' being highlighted.

必须搞一个新域名，和cc89 id 不能重复一个道理

The screenshot shows the 'Create Azure OpenAI' wizard on the Microsoft Azure portal. The 'Instance Details' step is being completed. The 'Name' input field now contains 'domainNameThatHaveNeverBeenRegistered'. The 'Region' dropdown is set to 'East US' and the 'Pricing tier' dropdown is set to 'Standard S0'. The 'Next' button at the bottom is highlighted with a red circle. The status bar at the bottom right shows the date and time as '4/15/2023 9:21 AM'.

按照这样填写 (Region 随手选一个 · Domain Name 当然没必要这么长 · Pricing tier 你没得选)

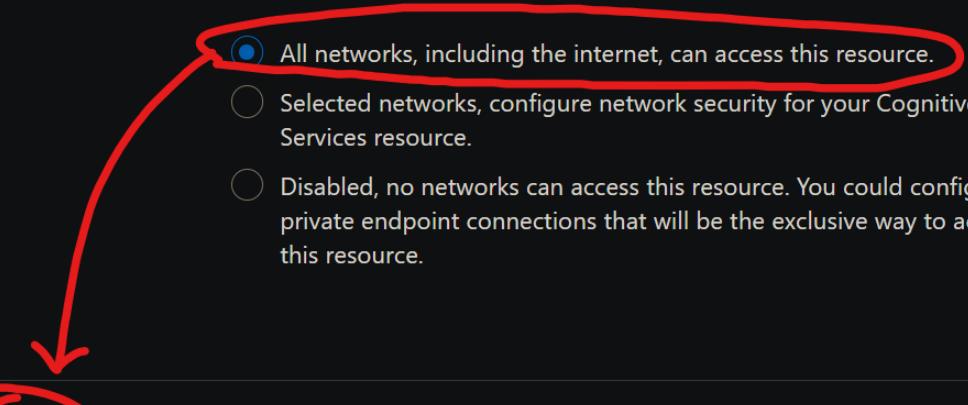
Basics Network Tags Review + submit

Configure network security for your Cognitive Services resource.

Type *

All networks, including the internet, can access this resource.
 Selected networks, configure network security for your Cognitive Services resource.
 Disabled, no networks can access this resource. You could configure private endpoint connections that will be the exclusive way to access this resource.

< Previous **Next**



懂得都懂没啥好说的

Home >

Create Azure OpenAI

Validation Passed

Basics Tags **Review + submit**

TERMS

By clicking "Create", I (a) agree to the legal terms and privacy statement(s) associated with the Marketplace offering(s) listed above; (b) authorize Microsoft to bill my current payment method for the fees associated with the offering(s), with the same billing frequency as my Azure subscription; and (c) agree that Microsoft may share my contact, usage and transactional information with the provider(s) of the offering(s) for support, billing and other transactional activities. Microsoft does not provide rights for third-party offerings. See the [Azure Marketplace Terms](#) for additional details.

Create < Previous Next



提交

The screenshot shows the Microsoft Azure portal with the URL <https://portal.azure.com/#view/HubsExtension/DeploymentDetailsBlade/~/overview/id/%2Fsubscriptions%2F...>. The page title is "Microsoft.CognitiveServicesOpenAI-20230415094505 | Overview". The left sidebar shows "Overview", "Inputs", "Outputs", and "Template". The main content area displays the message "... Deployment is in progress" and provides deployment details: Deployment name: Microsoft.CognitiveServicesOpen..., Start time: 4/15/2023, 9:54:57 AM, Subscription: Azure for Students, Resource group: openai. A redacted Correlation ID is shown. Below this, the "Deployment details" section shows a table with columns: Resource, Type, Status, and Operation details. The table is empty with the message "No results.". On the right side, there are promotional cards for Microsoft Defender for Cloud, Free Microsoft tutorials, and Work with an expert.

等候部署完成 (约 5 分钟)

The screenshot shows the Microsoft Azure portal with the same URL and title as the previous screenshot. The deployment status has changed to "Your deployment is complete". The deployment details remain the same: Deployment name: Microsoft.CognitiveServicesOpen..., Start time: 4/15/2023, 9:54:57 AM, Subscription: Azure for Students, Resource group: openai. The "Deployment details" table now shows one resource: "Sha1holder-davinci" (Type: Microsoft.CognitiveSer..., Status: OK). The "Next steps" section contains a "Go to resource" button. The right side of the page includes promotional cards for Cost Management, Microsoft Defender for Cloud, and Work with an expert.

部署成功！

部署 Azure OpenAI 模型

待申请通过后（似乎没有邮件提醒，笔者2天内就通过了）创建模型，推荐GPT-3.5-Turbo-0301（即ChatGPT的快照版本）。不同模型之间各有优劣，定价也天差地别。然而，谁能阻止你部署多个模型呢？

获取 Azure OpenAI API key

回到 [Azure OpenAI dashboard](#)

| Name | Kind | Location | Custom Domain Name | Pricing tier | Status |
|---------------------|--------|----------|---------------------|--------------|-----------|
| Sha1rholder-davinci | OpenAI | East US | sha1rholder-davinci | S0 | Succeeded |
| Sha1rholder-gpt | OpenAI | East US | sha1rholder-gpt | S0 | Succeeded |

选择你创建的服务

The screenshot shows the Microsoft Azure portal interface. The top navigation bar includes tabs for 'Sha1holder-davinci - Microsoft' and 'Sha1holder-gpt - Microsoft Azu'. The main title is 'Sha1holder-davinci | Keys and Endpoint'. On the left, a sidebar lists various service categories like 'Access control (IAM)', 'Tags', 'Diagnose and solve problems', 'Resource Management', 'Keys and Endpoint' (which is selected and highlighted in yellow), 'Model deployments', 'Pricing tier', 'Networking', 'Identity', 'Cost analysis', 'Properties', 'Locks', 'Monitoring', and 'Alerts'. The main content area displays two key fields: 'KEY 1' and 'KEY 2', each with a red box around its copy icon. Below these are fields for 'Location/Region' set to 'eastus' and 'Endpoint' set to 'https://sha1holder-davinci.openai.azure.com/'. A large red wavy underline highlights the 'Endpoint' URL.

获取一个 Azure OpenAI key 和 Endpoint

用 VScode Genie 调用 Azure OpenAI API

The screenshot shows a Visual Studio Code window with the Genie AI extension installed. The sidebar on the left displays various AI-related cards such as "Merge two sorted lists in Kotlin", "Write a program that solves the FizzBuzz game in R", and "How can I implement a hash table in JavaScript". A red circle highlights the Genie icon in the sidebar.

The main editor area contains a Markdown file titled "Store OpenAI API Key in VS Code Secrets Storage". It includes instructions for getting an OpenAI API key and a code snippet for using the gpt API with VScode - Genie AI. A red arrow points from the "Change API Key" button in the sidebar to the "API key" field in the code editor.

A modal dialog box titled "new secret key" is open, asking for confirmation to save the secret key. A red circle highlights the "API key" field in this dialog.

On the right side, there is a "Usage" dashboard showing API usage statistics for April. A red circle highlights the "EXPIRED DATE" field, which is set to "2023-01-01".

At the bottom, a note states: "你可以在 account > usage 处管理你的 API key, 免费账户的额度会自动过期" (You can manage your API key in account > usage, the free account's quota will automatically expire).

使用 gpt API (以 VScode - Genie AI 插件为例)

在这里输入你的 Azure OpenAI API key，长度和 sk- 开头的原生 OpenAI API key 不一样

打开 VScode 设置文件 `setting.json` (通常在 `C:\Users\用户名\AppData\Roaming\Code\User\`)，在最外层的花括号中插入以下设置（需替换部分代码）或按需在 GUI 中修改 Genie 插件设置

```
"genieai.OpenAI.model": "[模型名称]",  
"genieai.OpenAI.maxTokens": "[自定义最大 tokens]", // 需小于最大 tokens
```

```
"genieai.OpenAI.APIBaseUrl": "[Endpoint]",  
"genieai.Azure.url": "[Endpoint]/OpenAI/deployments/[模型名称][/Optional : 调用方  
法]/completions?API-version=[你的 API 版本]",
```

Example:

```
// 可以用注释来方便地替换多个预设  
/*  
"genieai.OpenAI.model": "text-davinci-003",  
"genieai.OpenAI.maxTokens": 3800, // 最大 tokens: 4097  
"genieai.OpenAI.APIBaseUrl": "https://sha1rholder-gpt.OpenAI.Azure.com",  
"genieai.Azure.url": "https://sha1rholder-  
gpt.OpenAI.Azure.com/OpenAI/deployments/tdavinci3/completions?API-version=2023-03-  
15-preview"  
*/  
  
"genieai.OpenAI.model": "gpt-3.5-turbo-0301",  
"genieai.OpenAI.maxTokens": 16000, // 最大 tokens: 16384  
"genieai.OpenAI.APIBaseUrl": "https://sha1rholder-gpt.OpenAI.Azure.com",  
"genieai.Azure.url": "https://sha1rholder-  
gpt.OpenAI.Azure.com/OpenAI/deployments/gpt35/chat/completions?API-version=2023-  
03-15-preview"
```

[Azure OpenAI 关于 API 版本、请求与返回的文档](#)

[OpenAI 关于各 gpt 模型最大 tokens 数的文档](#)

完成设置后，无需翻墙就可以在 VScode 中使用 ChatGPT Genie 了

高阶：部署基于 LLM 的聊天 bots

To be continued...

Bonus Parts:

开发基于 LLMs 的应用

该部分以使用 OpenAI sdk 编写简单的脚本为例，介绍如何使用 OpenAI sdk 开发基于 LLMs 的应用

To be continued...

GitHub 学生认证指南

To be continued...

用大陆 +86 手机号注册 Gmail

To be continued...

To be continued...