GitHub Codespaces Overview & Environment Configuration (Optional)

First, make sure you have a network environment that can access GitHub smoothly. Otherwise, it is recommended to use Alibaba Cloud.

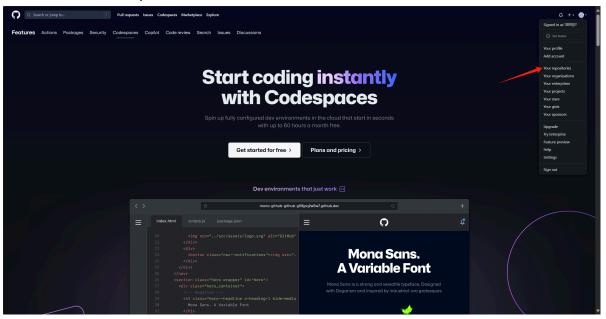
1. What is a codespace?

Codespaces are development environments hosted in the cloud. You can customize your projects for GitHub Codespaces by committing configuration files to a repository (often referred to as "configuration as code"), which creates a repeatable codespace configuration for all users of the project. For more information, see " <u>Introduction to development containers</u>."

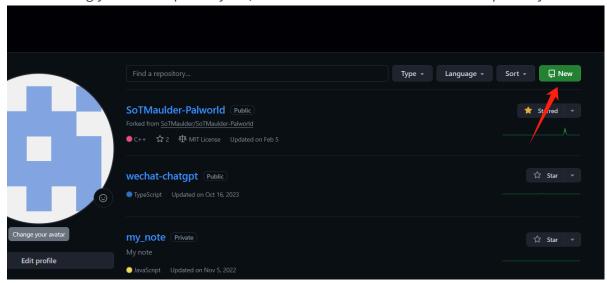


2. Create the first codespace

- 1. Open the URL: https://github.com/features/codespaces
- 2. Log in to your GitHub account
- 3. Click the icon Your repositories

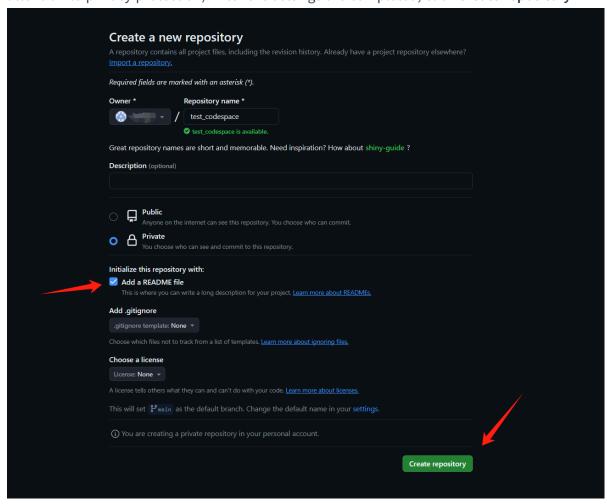


4. After entering your own repository list, click the **New** icon to create a new repository

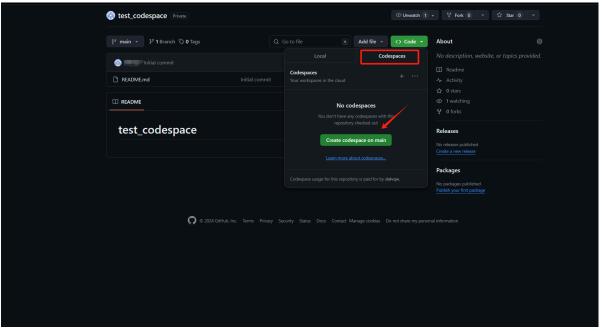


5. You can set it up as you like. For the sake of convenience and security, it is recommended to check **Add a README file** and select **Private** (because the API key is used in the course, pay

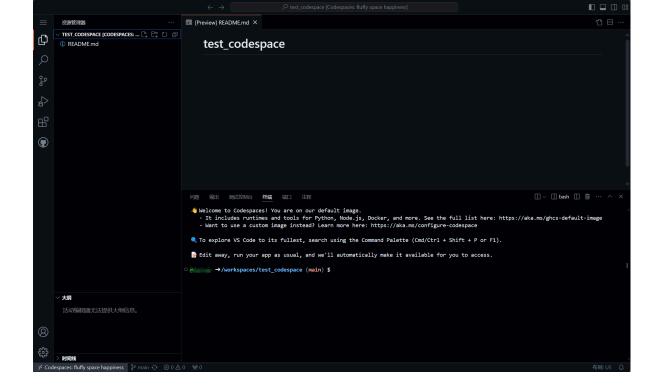
attention to privacy protection). After the settings are completed, click **Create repository**



6. After creating the repository, click **code** and select **Codespaces** . Click the icon **Create codespace on main**



7. After waiting for a while, the following interface will appear. The following operations are the same as VSCode. You can install plug-ins and adjust settings as needed.



3. Environment Configuration

Just refer 7.环境配置 to 1.2 通用环境配置 the configuration environment and skip the first two steps.

Since each repository can set up an independent codespace, we don't need to install the conda environment here. And because the GitHub server is overseas, there is no need to configure a domestic mirror source.

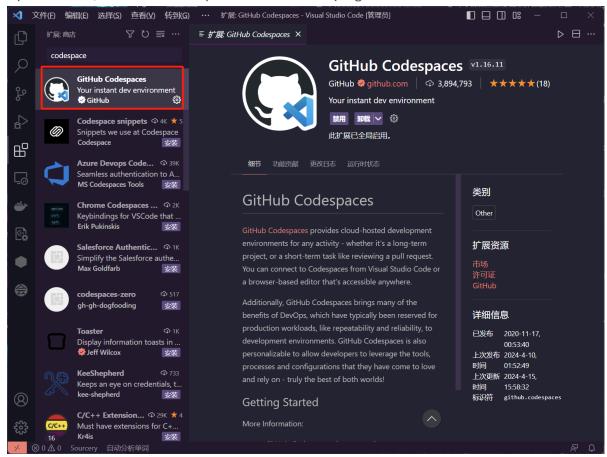
4. VSCode configures Python environment

Refer 7.环境配置 to 二、VSCode 配置 Python 环境 the configuration environment

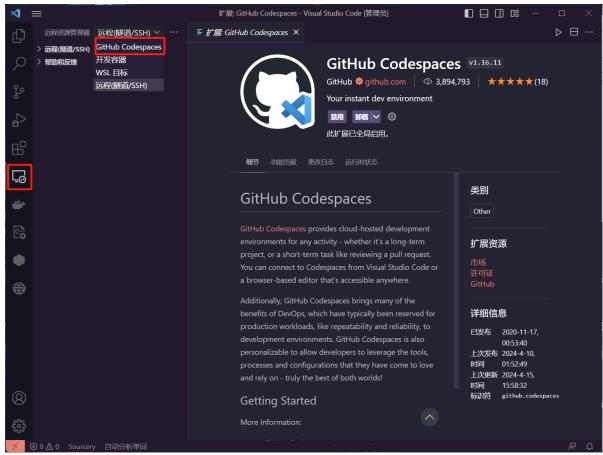
Note: After installing all configurations for the first time, you need to restart the codespace

5. Connecting Local VSCode to Codespace (optional)

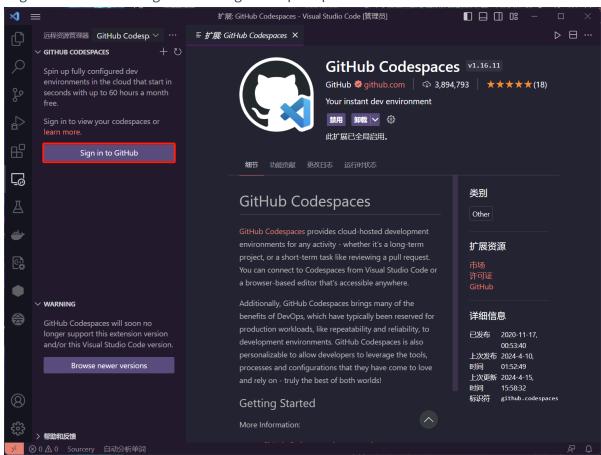
1. Open VSCode, search for codespace and install the plugin



2. In the VS Code activity bar, click the Remote Explorer icon



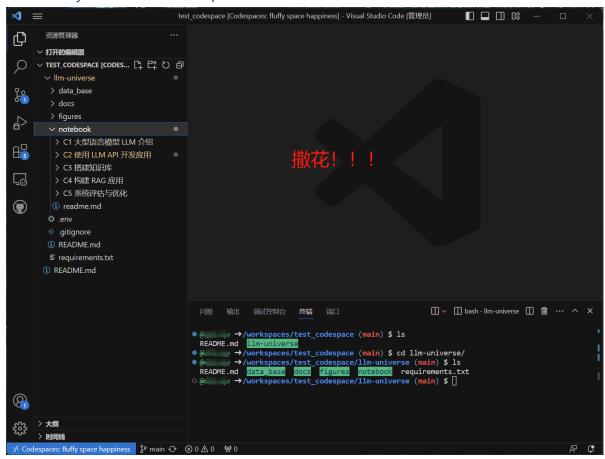
3. Log in to GitHub and log in according to the prompts



4. You can see the codespace we just created here. Click the red box connection icon



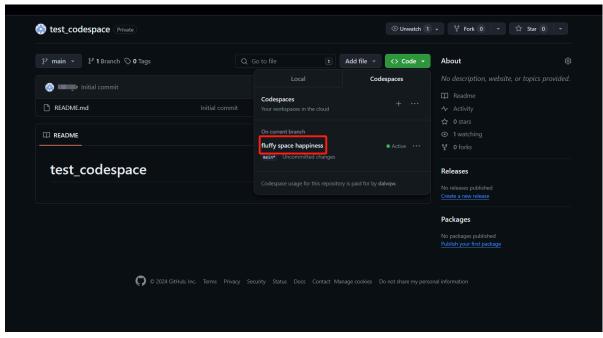
5. Successfully connected to codespace



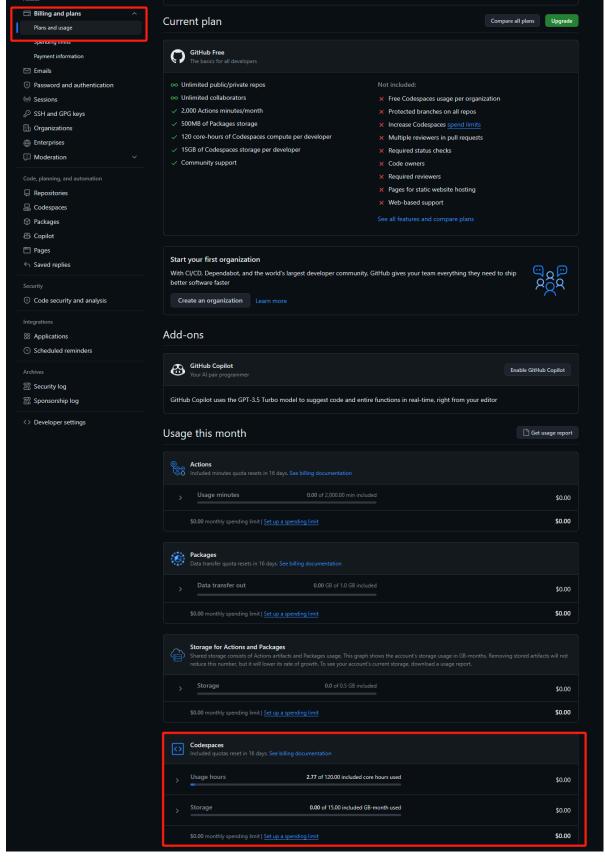
6. VSCode official configuration document

6. Others

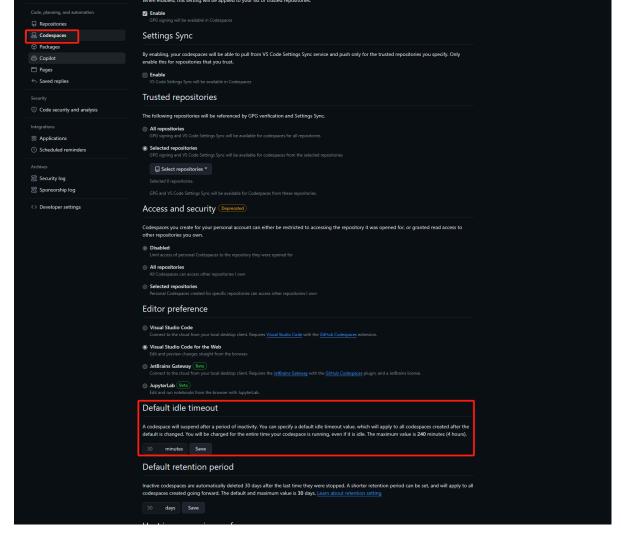
1. After closing the webpage, find the newly created repository and click the red box to select the content to re-enter the codespace



2. After finding the GitHub account settings, you can see the remaining free quota in **Plans and usage.**



3. Codespace settings, it is recommended to adjust the suspension time (too long a time will waste credits)



4. Because codespace can be accessed through the web, the most important thing is of course that you can carry a tablet with you to access the web for programming learning.

We now have the necessary foundation for development. In the next chapter, we will introduce the required environment configuration in detail.

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5. Alibaba Cloud Server Usage Guide

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