

# Day02

## 1. windows系统下git的使用

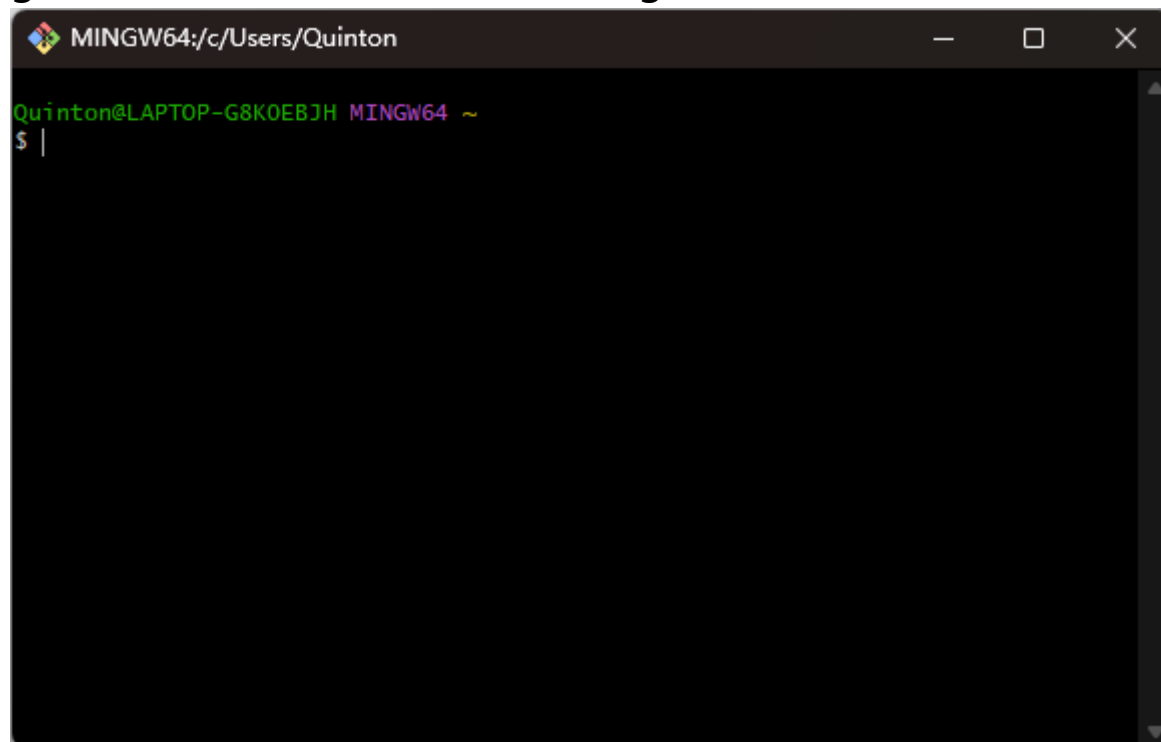
### 1. 下载Git Bash

进入Git Bash官网下载

<https://git-scm.com/download/win>

![gitbash](img/gitbash.png =x10)

gitbash打开后界面（后面推荐将git配置到win自带的terminal）

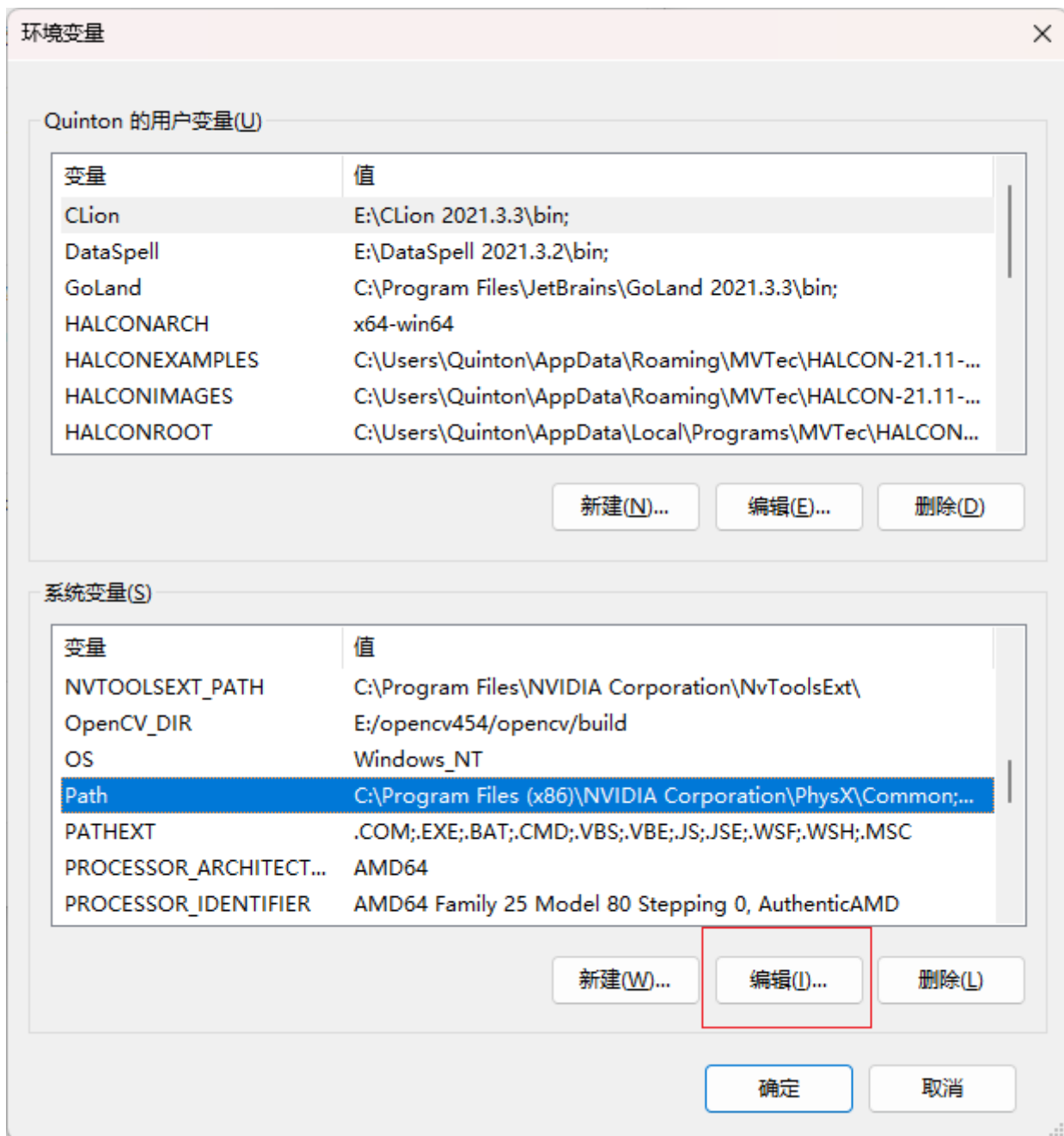


### 2.git配置到win自带终端cmd（推荐）

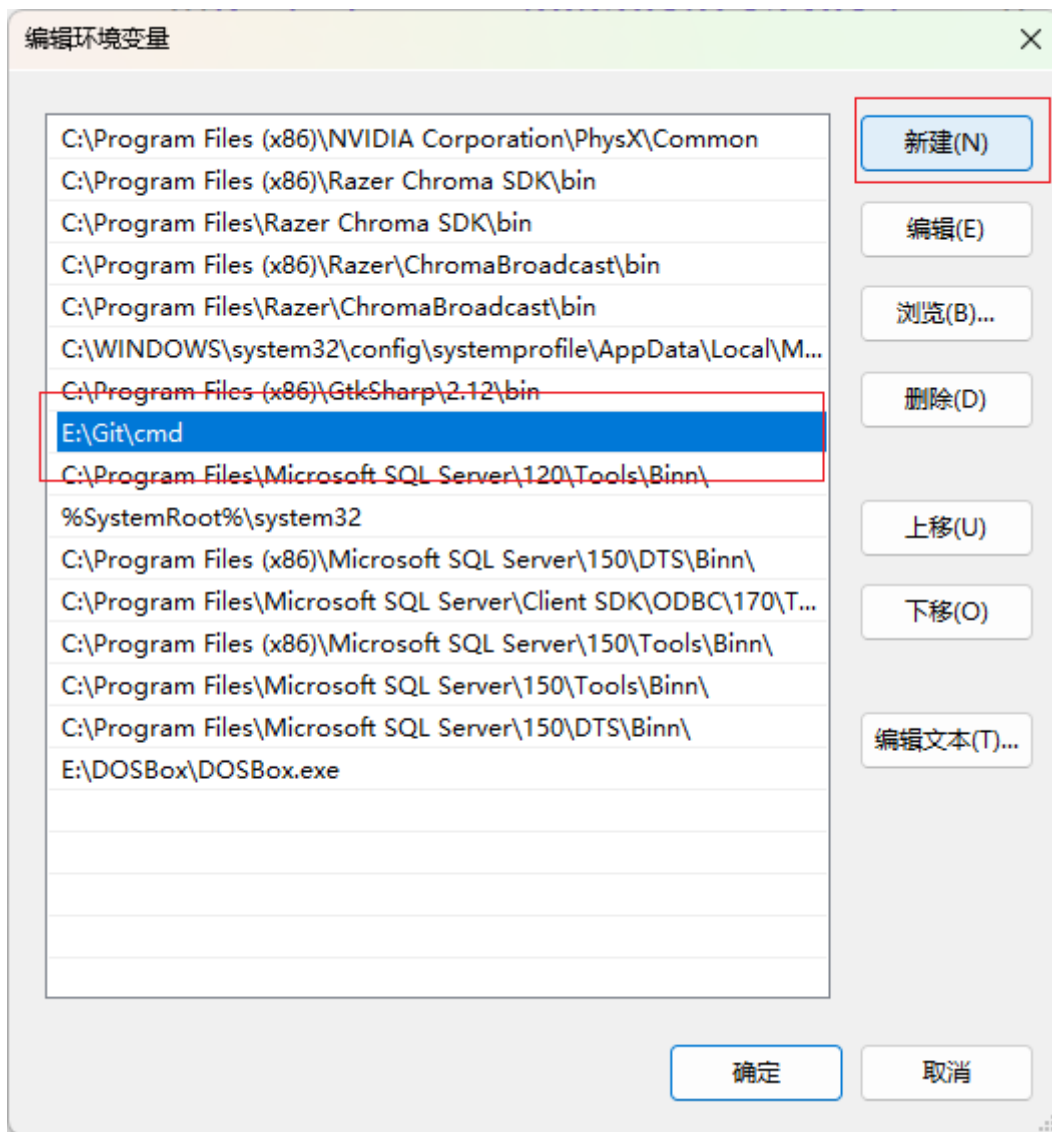
查看高级系统设置，选择环境变量



进入环境变量，选择Path，点击编辑



新建一个环境变量，为gitbash安装路径下的cmd文件夹  
注意使用自己的安装路径而不是图中路径！！



确定后，打开cmd测试，出现git命令提示即为正常

```
管理员: 命令提示符

rm          Remove files from the working tree and from the index

examine the history and state (see also: git help revisions)
bisect      Use binary search to find the commit that introduced a bug
diff        Show changes between commits, commit and working tree, etc
grep        Print lines matching a pattern
log         Show commit logs
show        Show various types of objects
status      Show the working tree status

grow, mark and tweak your common history
branch      List, create, or delete branches
commit      Record changes to the repository
merge       Join two or more development histories together
rebase      Reapply commits on top of another base tip
reset       Reset current HEAD to the specified state
switch      Switch branches
tag         Create, list, delete or verify a tag object signed with GPG

collaborate (see also: git help workflows)
fetch       Download objects and refs from another repository
pull        Fetch from and integrate with another repository or a local branch
push        Update remote refs along with associated objects

'git help -a' and 'git help -g' list available subcommands and some
concept guides. See 'git help <command>' or 'git help <concept>'
to read about a specific subcommand or concept.
See 'git help git' for an overview of the system.

C:\Users\Quinton>
```

## 3.git配置

设置用户名和邮箱

```
git config --global user.name "用户名"
```

```
git config --global user.email "邮箱"
```

欧了

## 4.使用git创建一个库（不太聪明的方法）

略，用不到

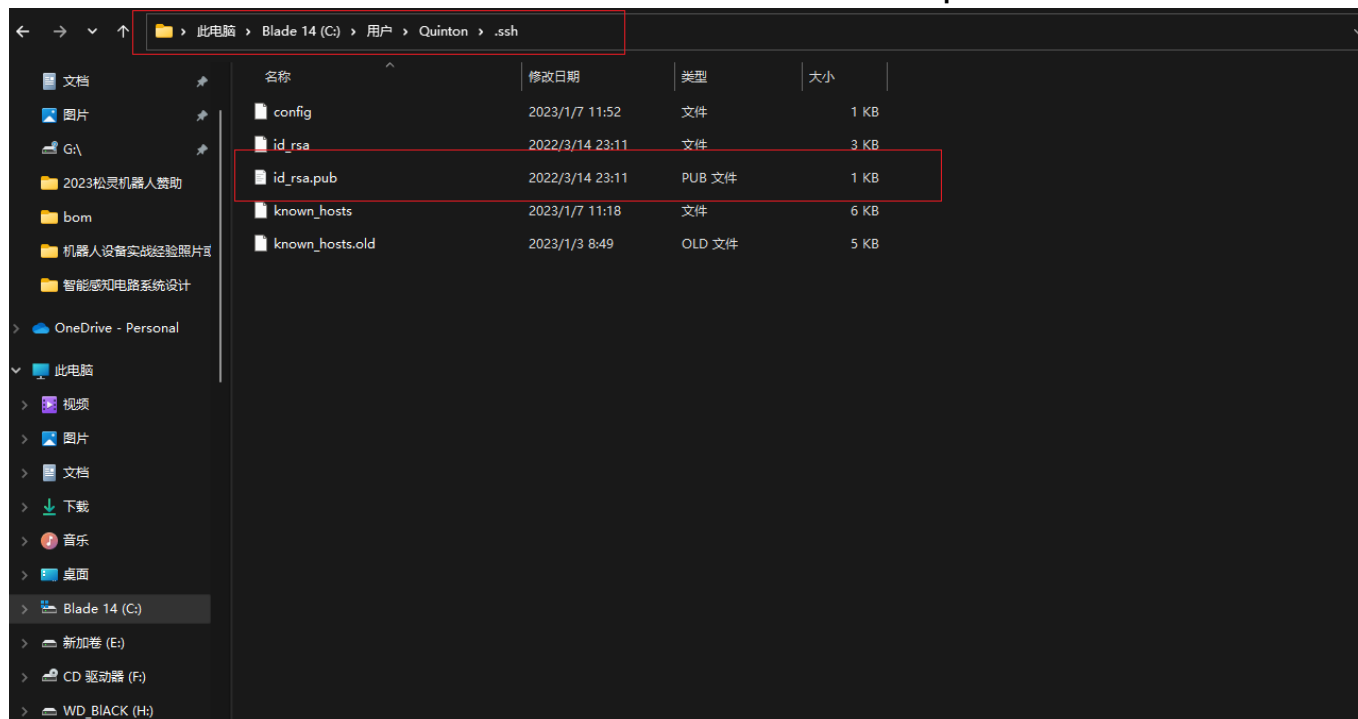
## 5.使用ssh方法连接远程仓库（聪明的方法）

### 1.配置ssh密钥至github仓库

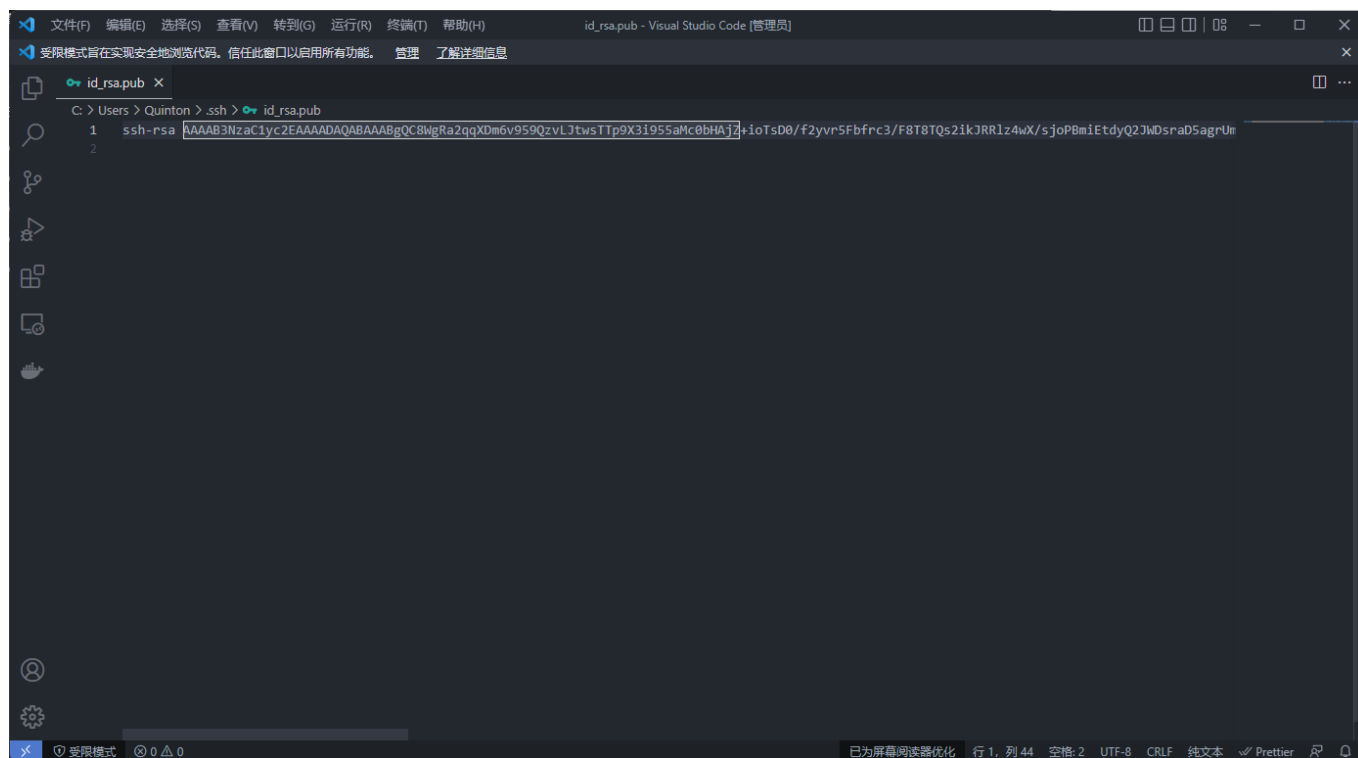
在cmd中配置好git的基础上，在cmd中输入下面的命令  
务必更换成登录GitHub使用的邮箱

```
ssh-keygen -t ed25519 -C "your_email@example.com"
```

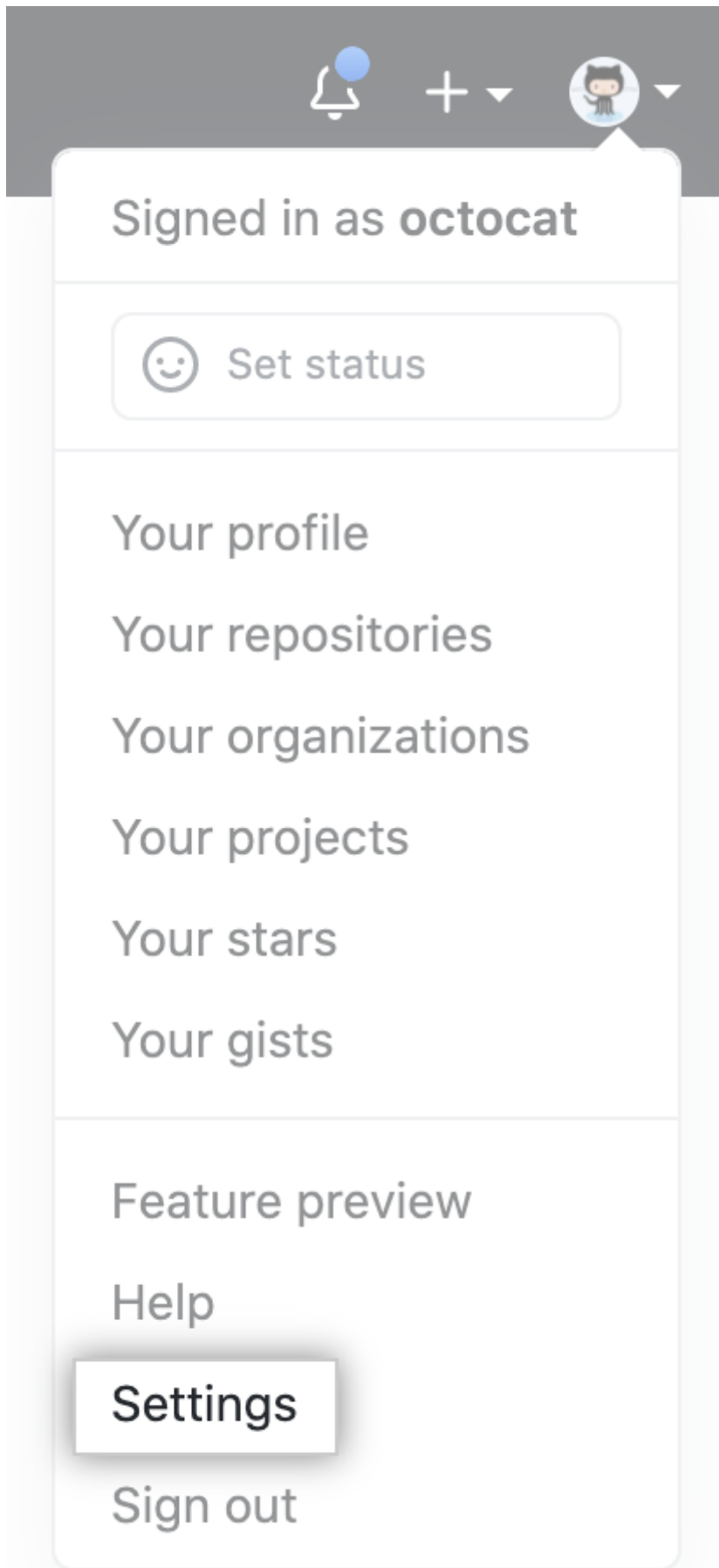
执行完后可以在图中路径找到ssh公钥文件id\_rsa.pub



打开后即可看到ssh公钥



在任何页面的右上角，单击个人资料照片，然后单击“设置”。



在边栏的“访问”部分中，单击“SSH 和 GPG 密钥”。

单击“新建 SSH 密钥”或“添加 SSH 密钥”。

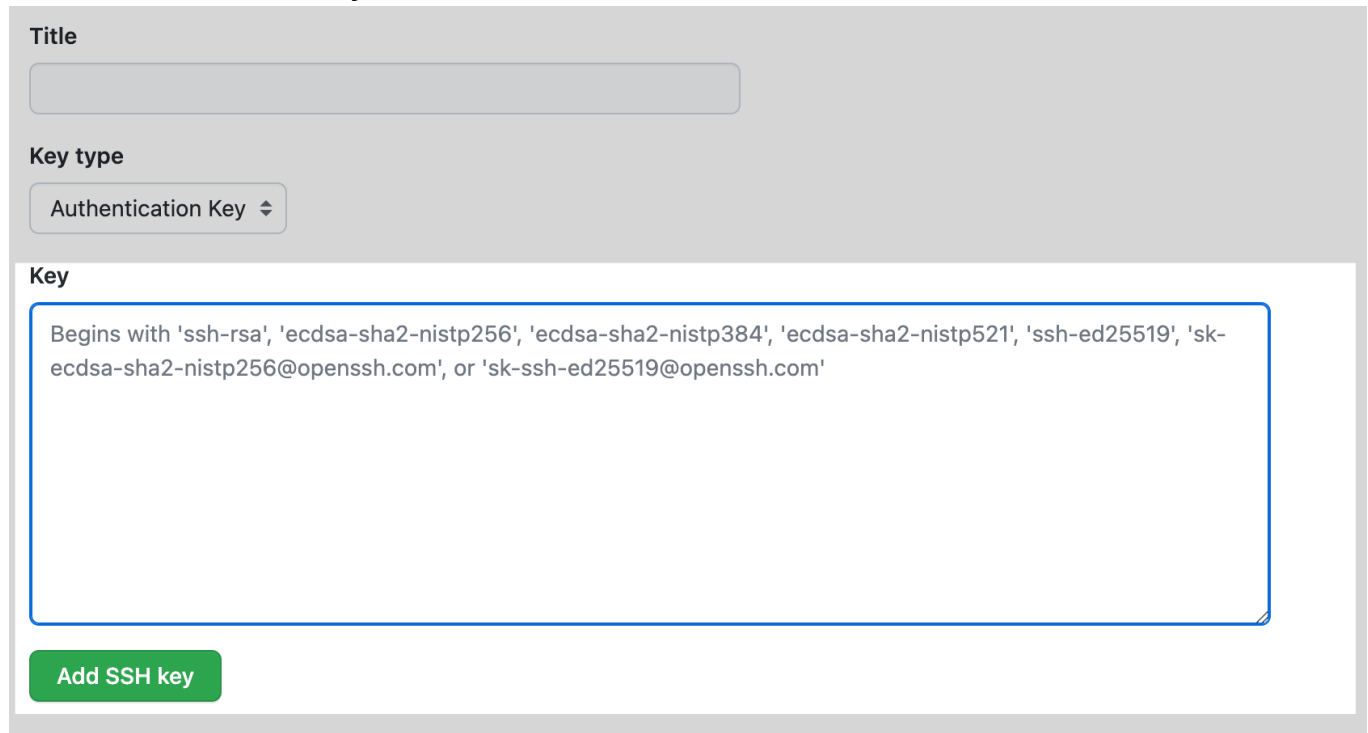
## SSH keys

New SSH key

This is a list of SSH keys associated with your account. Remove any keys that you do not recognize.

### Authentication Keys

在 "Title"（标题）字段中，为新密钥添加描述性标签。例如，如果使用的是个人笔记本电脑，则可以将此密钥称为“个人笔记本电脑”。将密钥粘贴到 "Key"（密钥）字段。

A screenshot of a web form for adding a new SSH key. The form has a light gray background. At the top, there's a section labeled "Title" with a text input field. Below that is a "Key type" section with a dropdown menu currently showing "Authentication Key". The main section is labeled "Key" and contains a large text area with a blue border. Inside this text area, there is a list of supported key types: 'ssh-rsa', 'ecdsa-sha2-nistp256', 'ecdsa-sha2-nistp384', 'ecdsa-sha2-nistp521', 'ssh-ed25519', 'sk-ecdsa-sha2-nistp256@openssh.com', and 'sk-ssh-ed25519@openssh.com'. At the bottom left of the form, there is a green button labeled "Add SSH key".

Title

Key type

Authentication Key

Key

Begins with 'ssh-rsa', 'ecdsa-sha2-nistp256', 'ecdsa-sha2-nistp384', 'ecdsa-sha2-nistp521', 'ssh-ed25519', 'sk-ecdsa-sha2-nistp256@openssh.com', or 'sk-ssh-ed25519@openssh.com'

Add SSH key

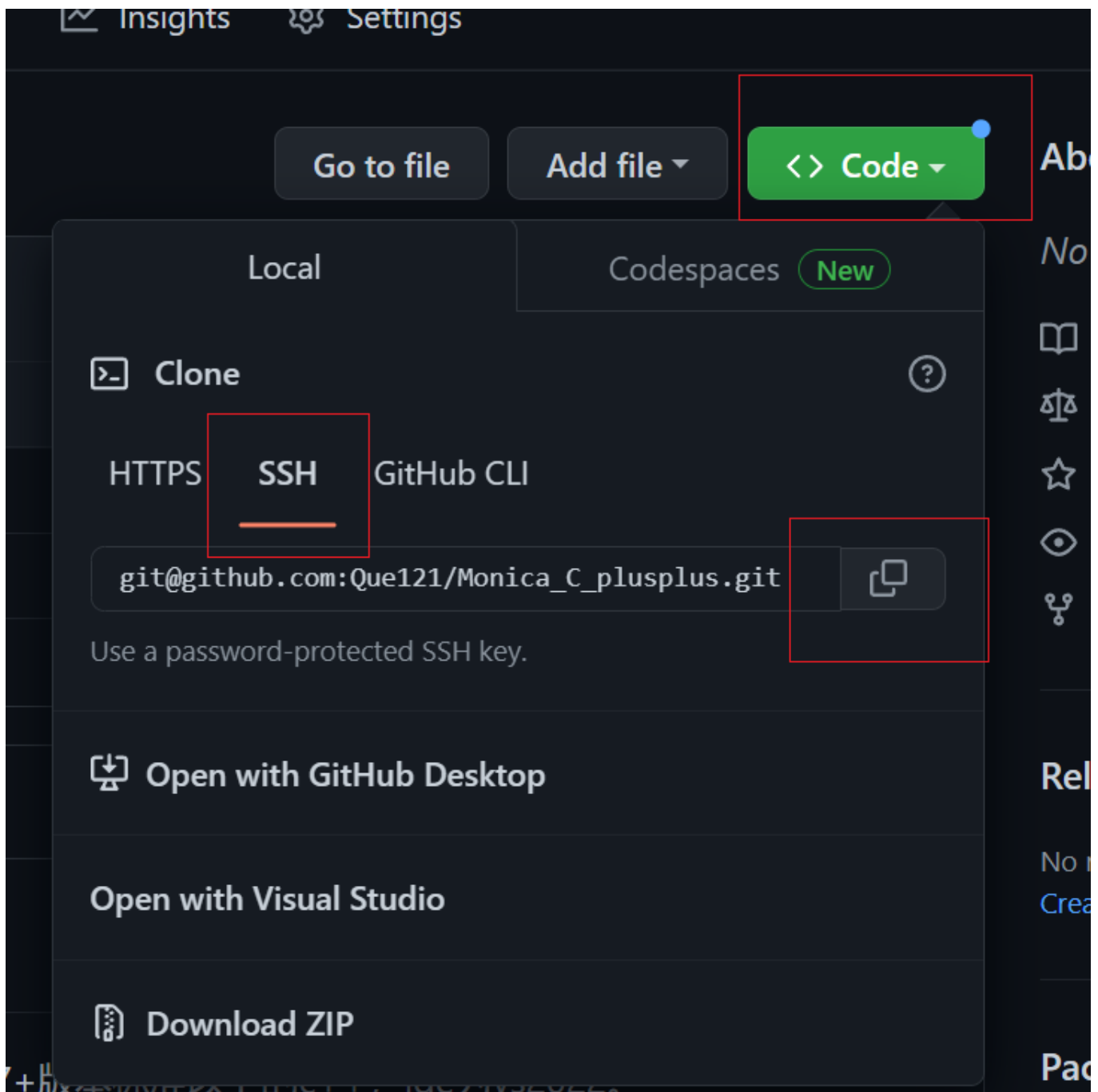
单击“添加 SSH 密钥”。

Add SSH key

## 2.克隆仓库到本地

进入需要克隆的仓库，以Monica\_C\_plusplus仓库为例子  
复制ssh协议的git链接



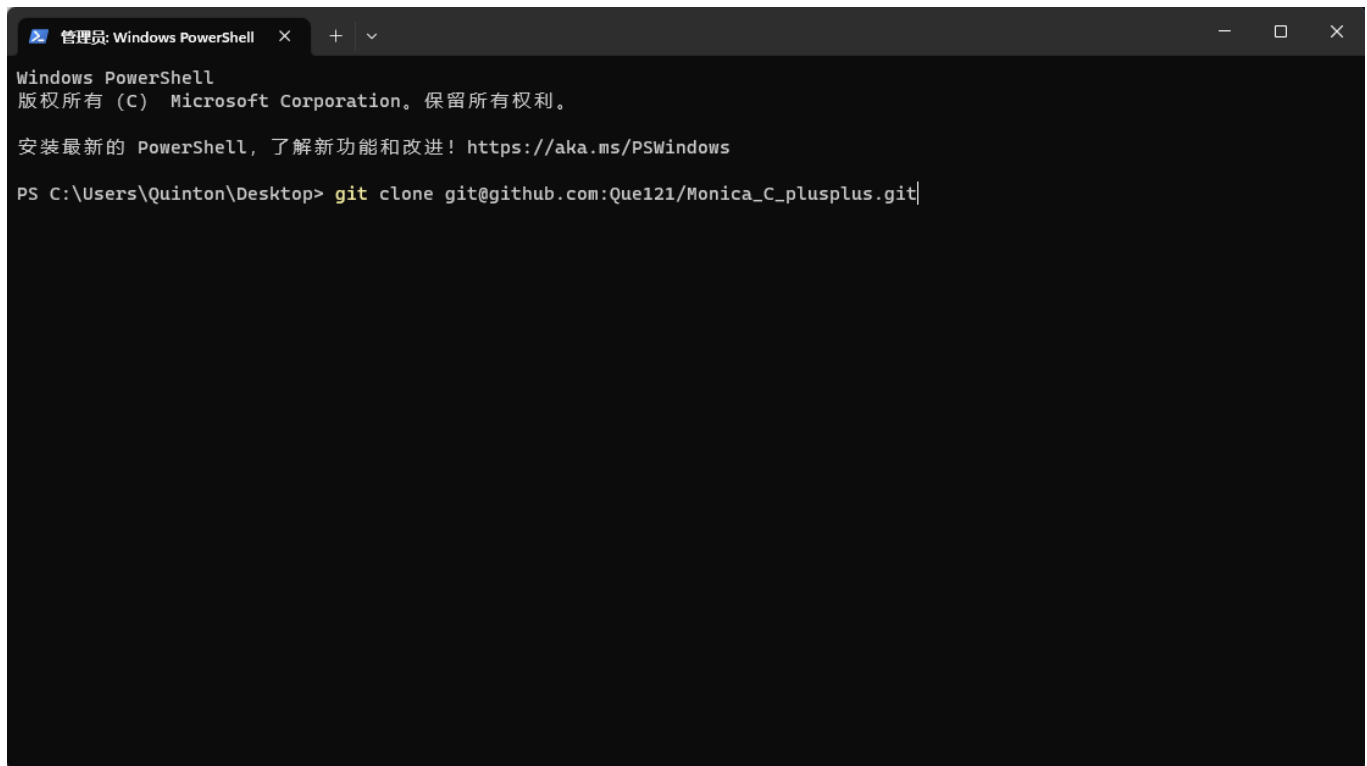


右键桌面，选择在终端中打开

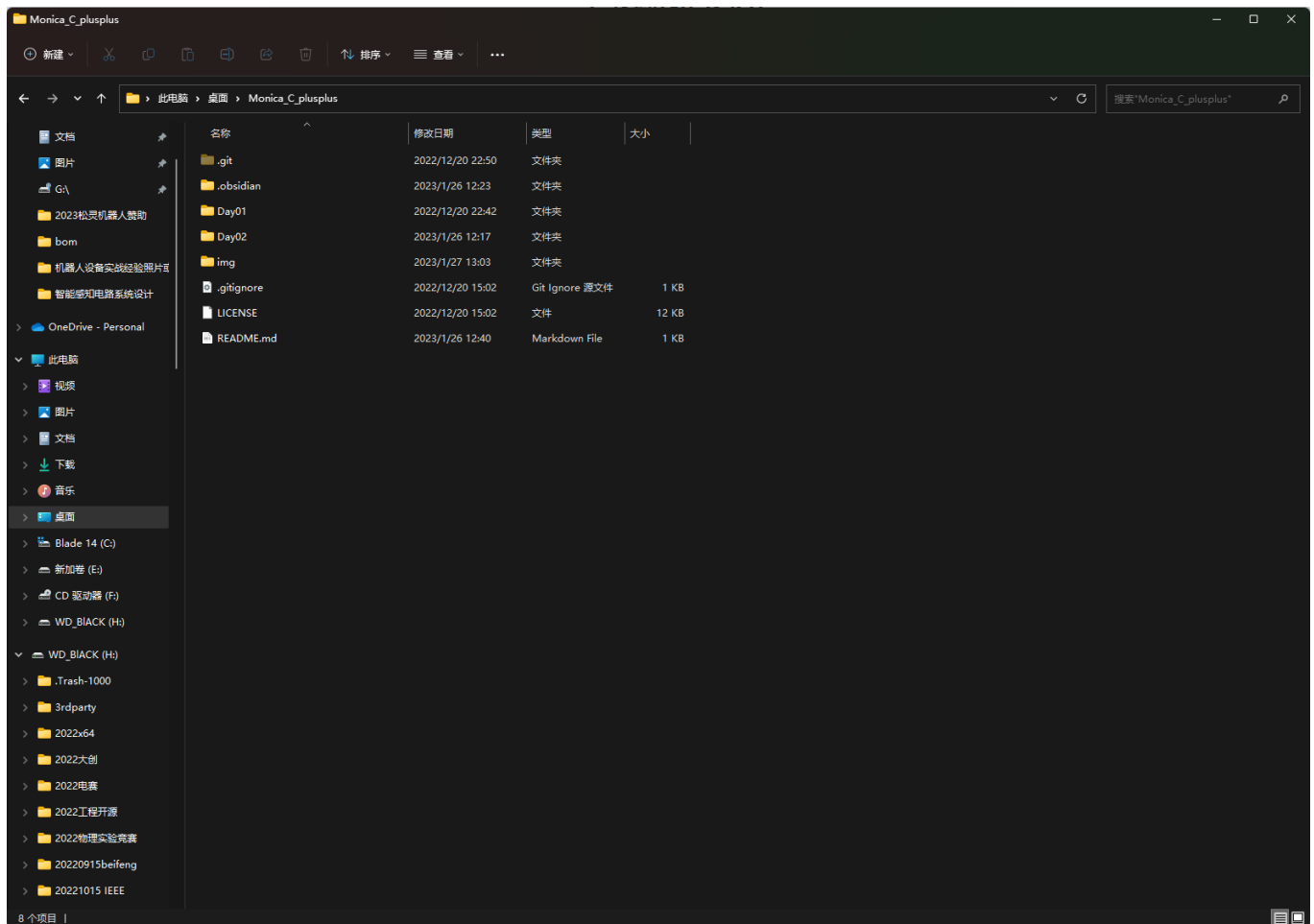


进入终端，使用git clone命令，并在后面加入git链接

```
git clone git@github.com:Que121/Monica_C_plusplus.git
```



回车后即可克隆仓库至本地



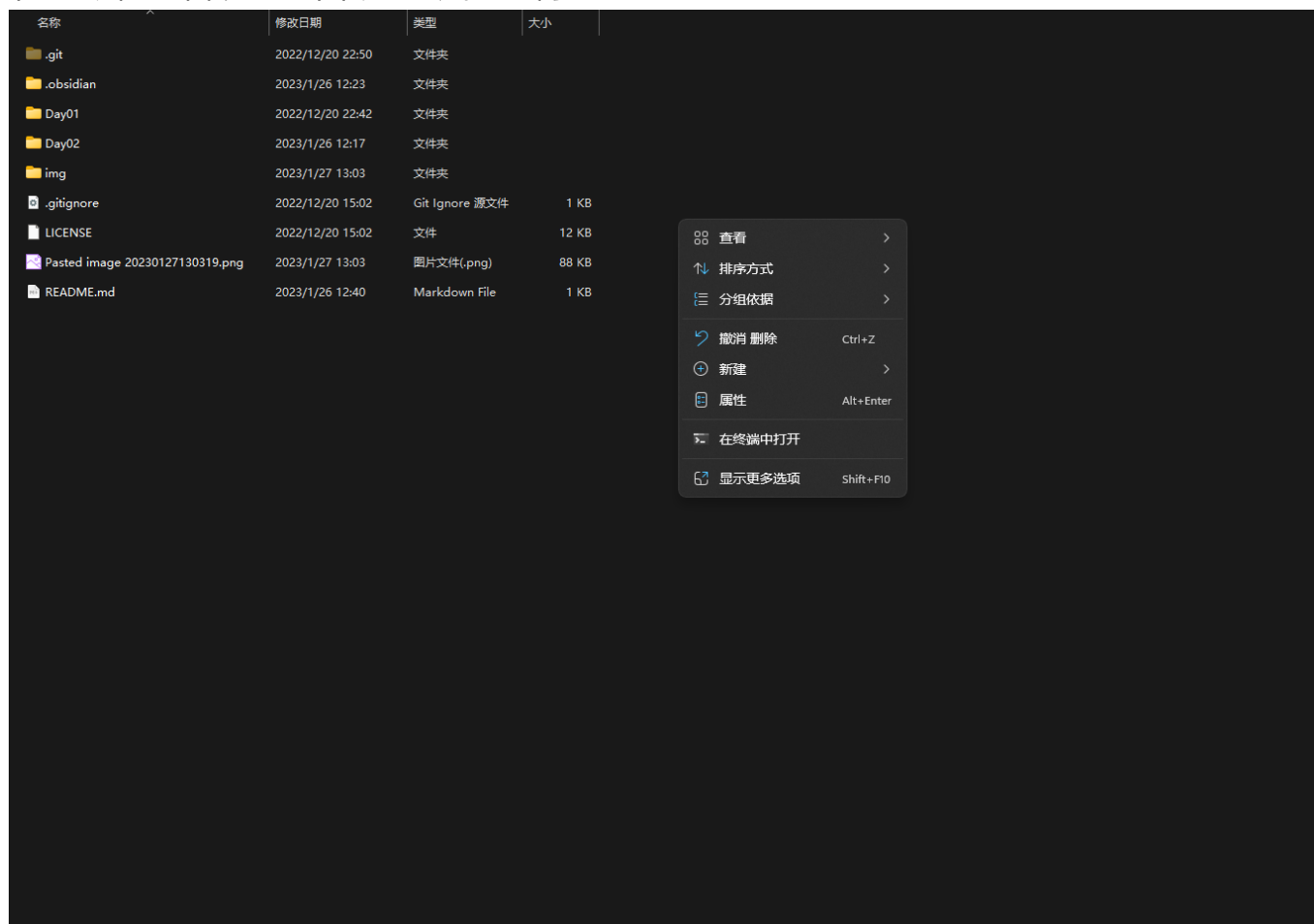
## 6.拉取仓库和更新仓库

### 1.拉取仓库

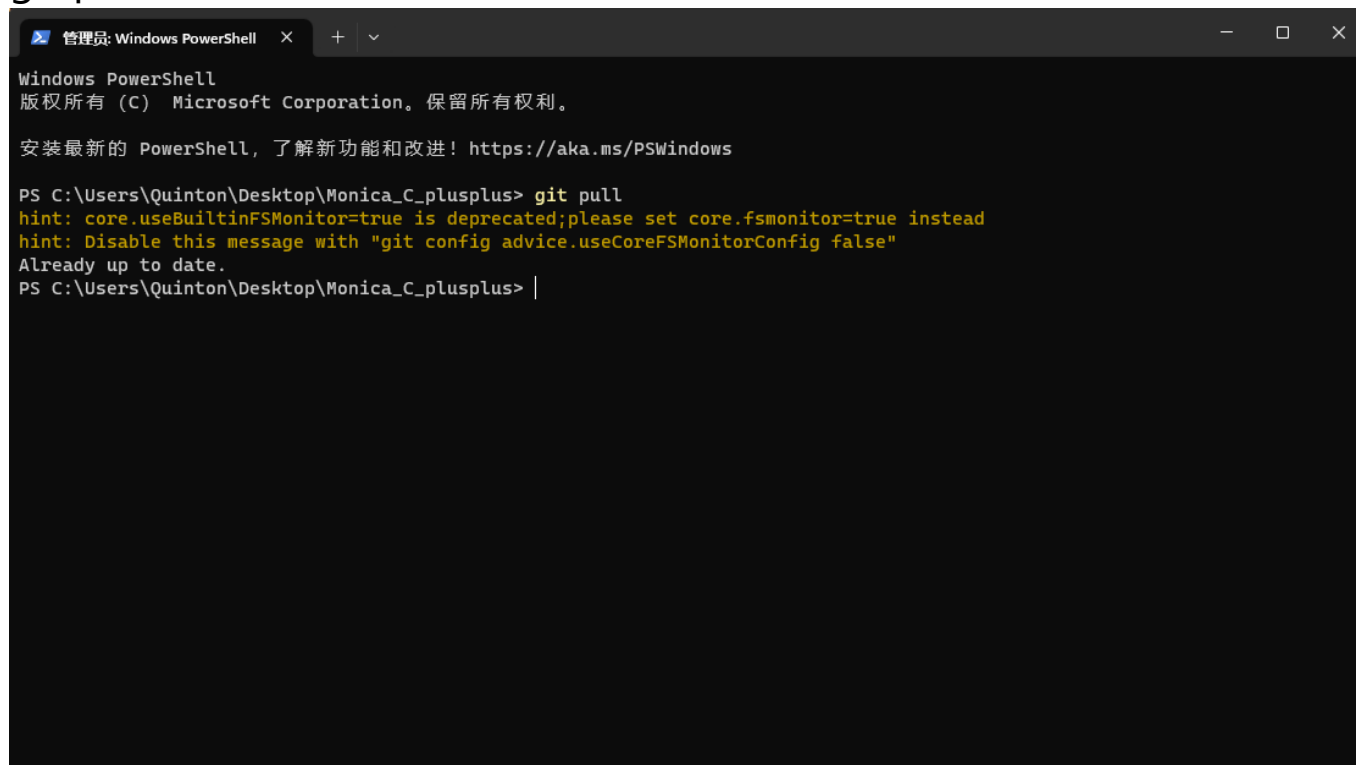
拉取仓库指将github仓库文件拉取到本地  
拉取仓库十分简单

```
git pull
```

## 在仓库文件夹下右键打开终端



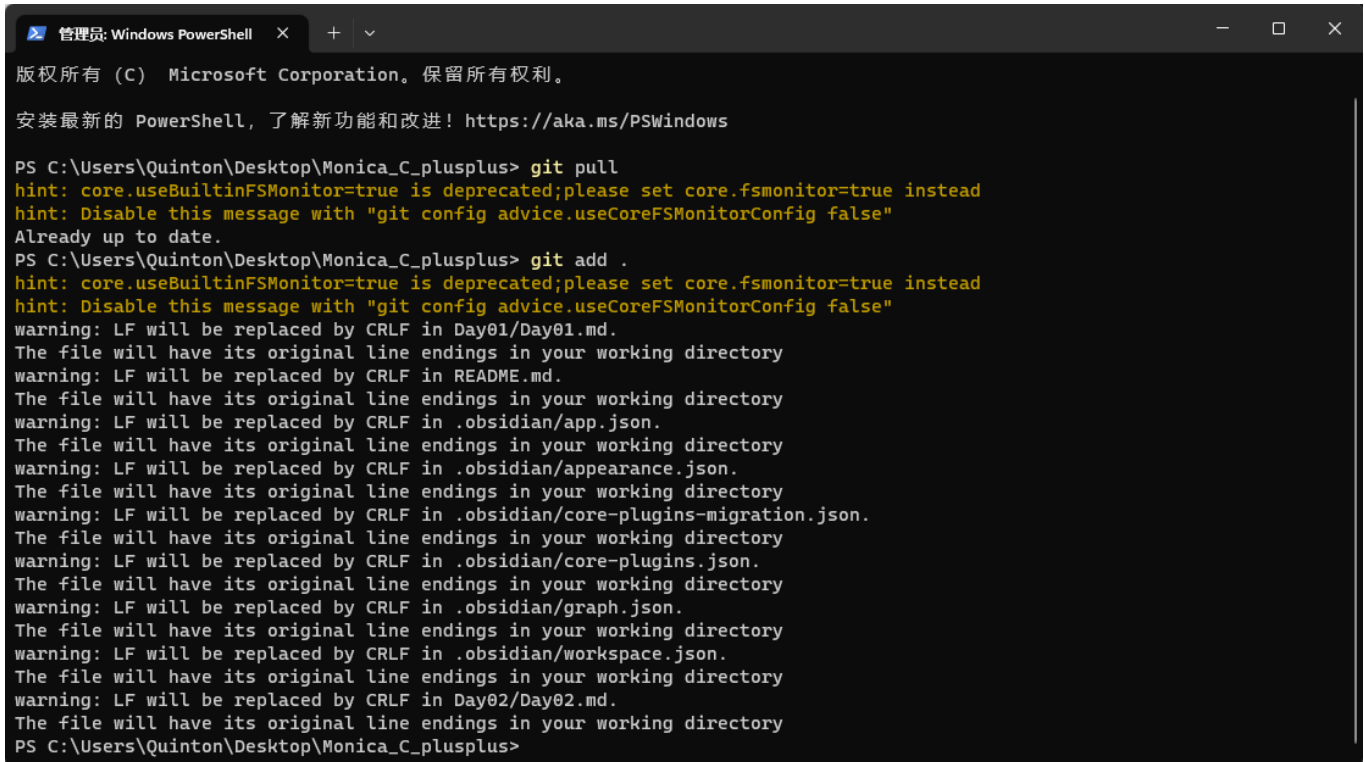
## git pull然后回车



## 2.更新仓库

更新仓库指将本地仓库更新到github仓库，也叫push到github  
在更新仓库前必须先拉取最新仓库进行合并  
在仓库首目录按以下命令执行

```
git add .
```



```
管理员: Windows PowerShell
版权所有 (C) Microsoft Corporation。保留所有权利。

安装最新的 PowerShell，了解新功能和改进！https://aka.ms/PSWindows

PS C:\Users\Quinton\Desktop\Monica_C_plusplus> git pull
hint: core.useBuiltinFSMonitor=true is deprecated;please set core.fsmonitor=true instead
hint: Disable this message with "git config advice.useCoreFSMonitorConfig false"
Already up to date.
PS C:\Users\Quinton\Desktop\Monica_C_plusplus> git add .
hint: core.useBuiltinFSMonitor=true is deprecated;please set core.fsmonitor=true instead
hint: Disable this message with "git config advice.useCoreFSMonitorConfig false"
warning: LF will be replaced by CRLF in Day01/Day01.md.
The file will have its original line endings in your working directory
warning: LF will be replaced by CRLF in README.md.
The file will have its original line endings in your working directory
warning: LF will be replaced by CRLF in .obsidian/app.json.
The file will have its original line endings in your working directory
warning: LF will be replaced by CRLF in .obsidian/appearance.json.
The file will have its original line endings in your working directory
warning: LF will be replaced by CRLF in .obsidian/core-plugins-migration.json.
The file will have its original line endings in your working directory
warning: LF will be replaced by CRLF in .obsidian/core-plugins.json.
The file will have its original line endings in your working directory
warning: LF will be replaced by CRLF in .obsidian/graph.json.
The file will have its original line endings in your working directory
warning: LF will be replaced by CRLF in .obsidian/workspace.json.
The file will have its original line endings in your working directory
warning: LF will be replaced by CRLF in Day02/Day02.md.
The file will have its original line endings in your working directory
PS C:\Users\Quinton\Desktop\Monica_C_plusplus>
```

“注释”为此次更新的备注信息，可更改

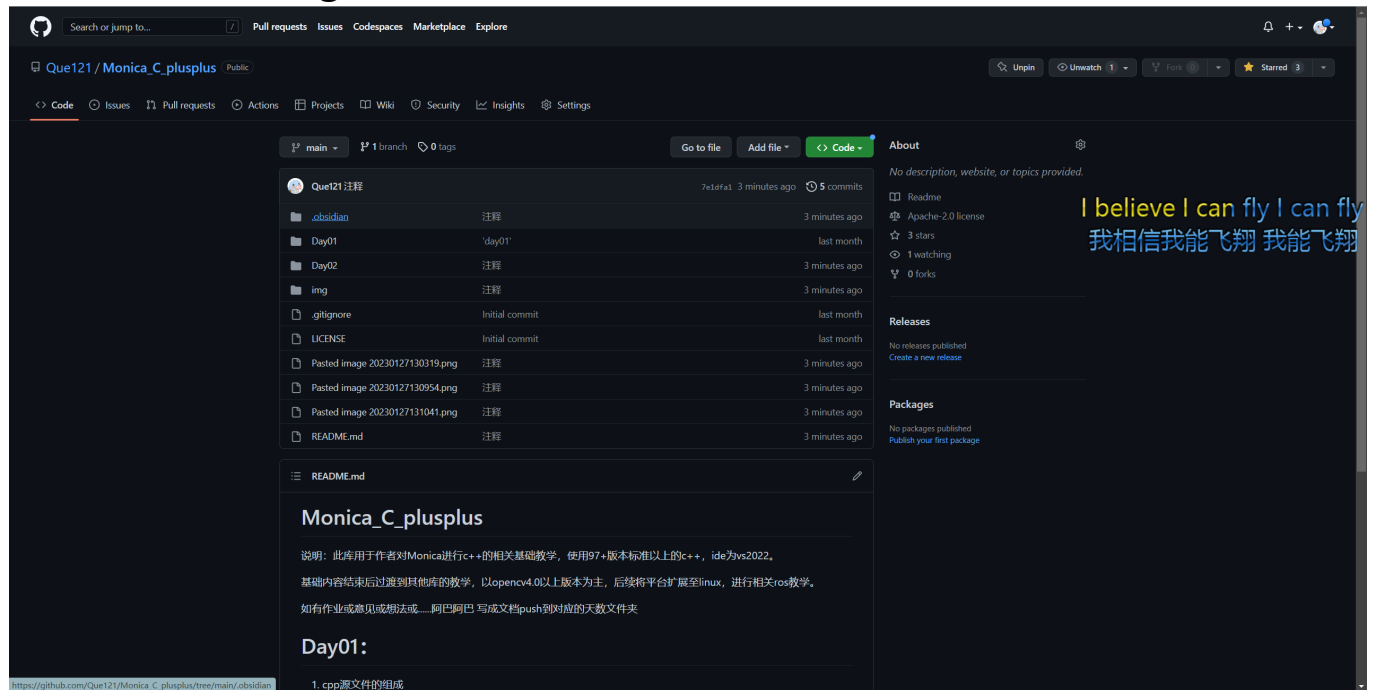
```
git commit -m "注释"
```

```
管理员: Windows PowerShell
warning: LF will be replaced by CRLF in Day02/Day02.md.
The file will have its original line endings in your working directory
PS C:\Users\Quinton\Desktop\Monica_C_plusplus> git commit -m "注释"
hint: core.useBuiltinFSMonitor=true is deprecated; please set core.fsmonitor=true instead
hint: Disable this message with "git config advice.useCoreFSMonitorConfig false"
[main 7e1dfa1] 注释
23 files changed, 369 insertions(+), 4 deletions(-)
create mode 100644 .obsidian/app.json
create mode 100644 .obsidian/appearance.json
create mode 100644 .obsidian/core-plugins-migration.json
create mode 100644 .obsidian/core-plugins.json
create mode 100644 .obsidian/graph.json
create mode 100644 .obsidian/hotkeys.json
create mode 100644 .obsidian/workspace.json
create mode 100644 Day02/Day02.md
create mode 100644 Pasted image 20230127130319.png
create mode 100644 Pasted image 20230127130954.png
create mode 100644 Pasted image 20230127131041.png
create mode 100644 img/Pasted image 20230126125556.png
create mode 100644 img/Pasted image 20230126134638.png
create mode 100644 img/Pasted image 20230126134817.png
create mode 100644 img/Pasted image 20230126135215.png
create mode 100644 img/Pasted image 20230126135320.png
create mode 100644 img/Pasted image 20230126142253.png
create mode 100644 img/Pasted image 20230126142618.png
create mode 100644 img/Pasted image 20230127124401.png
create mode 100644 img/Pasted image 20230127125541.png
create mode 100644 img/Pasted image 20230127125657.png
create mode 100644 img/gitbash.png
PS C:\Users\Quinton\Desktop\Monica_C_plusplus> |
```

最后git push即可更新仓库

```
管理员: Windows PowerShell
create mode 100644 .obsidian/core-plugins-migration.json
create mode 100644 .obsidian/core-plugins.json
create mode 100644 .obsidian/graph.json
create mode 100644 .obsidian/hotkeys.json
create mode 100644 .obsidian/workspace.json
create mode 100644 Day02/Day02.md
create mode 100644 Pasted image 20230127130319.png
create mode 100644 Pasted image 20230127130954.png
create mode 100644 Pasted image 20230127131041.png
create mode 100644 img/Pasted image 20230126125556.png
create mode 100644 img/Pasted image 20230126134638.png
create mode 100644 img/Pasted image 20230126134817.png
create mode 100644 img/Pasted image 20230126135215.png
create mode 100644 img/Pasted image 20230126135320.png
create mode 100644 img/Pasted image 20230126142253.png
create mode 100644 img/Pasted image 20230126142618.png
create mode 100644 img/Pasted image 20230127124401.png
create mode 100644 img/Pasted image 20230127125541.png
create mode 100644 img/Pasted image 20230127125657.png
create mode 100644 img/gitbash.png
PS C:\Users\Quinton\Desktop\Monica_C_plusplus> git push
Enumerating objects: 30, done.
Counting objects: 100% (30/30), done.
Delta compression using up to 16 threads
Compressing objects: 100% (26/26), done.
Writing objects: 100% (28/28), 748.61 KiB | 1.83 MiB/s, done.
Total 28 (delta 0), reused 0 (delta 0), pack-reused 0
To github.com:Que121/Monica_C_plusplus.git
   b4b00ce..7e1dfa1  main -> main
PS C:\Users\Quinton\Desktop\Monica_C_plusplus>
```

更新成功后，在github上看到更新结果



## 2. Obsidian的使用

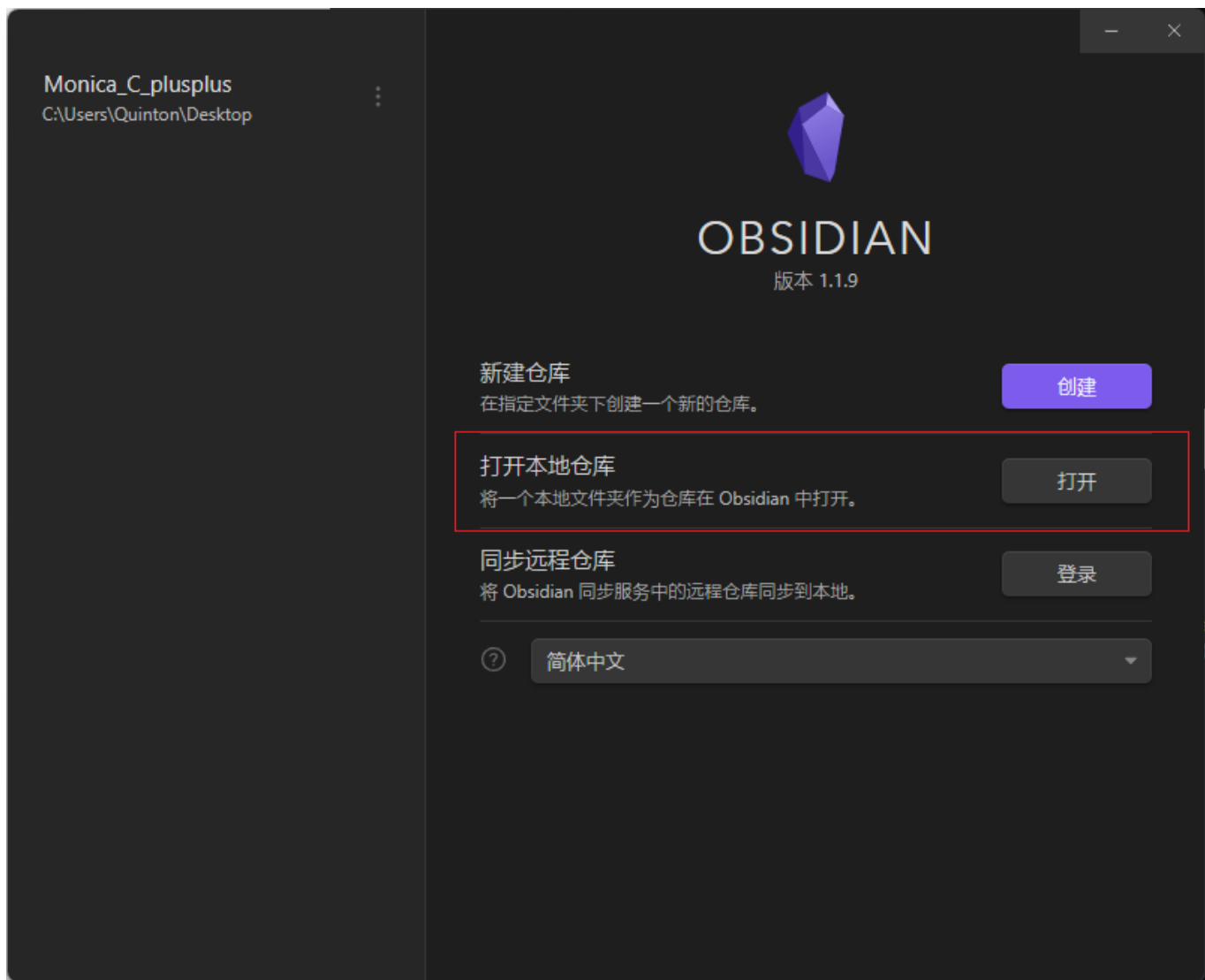
官网下载obsidian

<https://obsidian.md/>

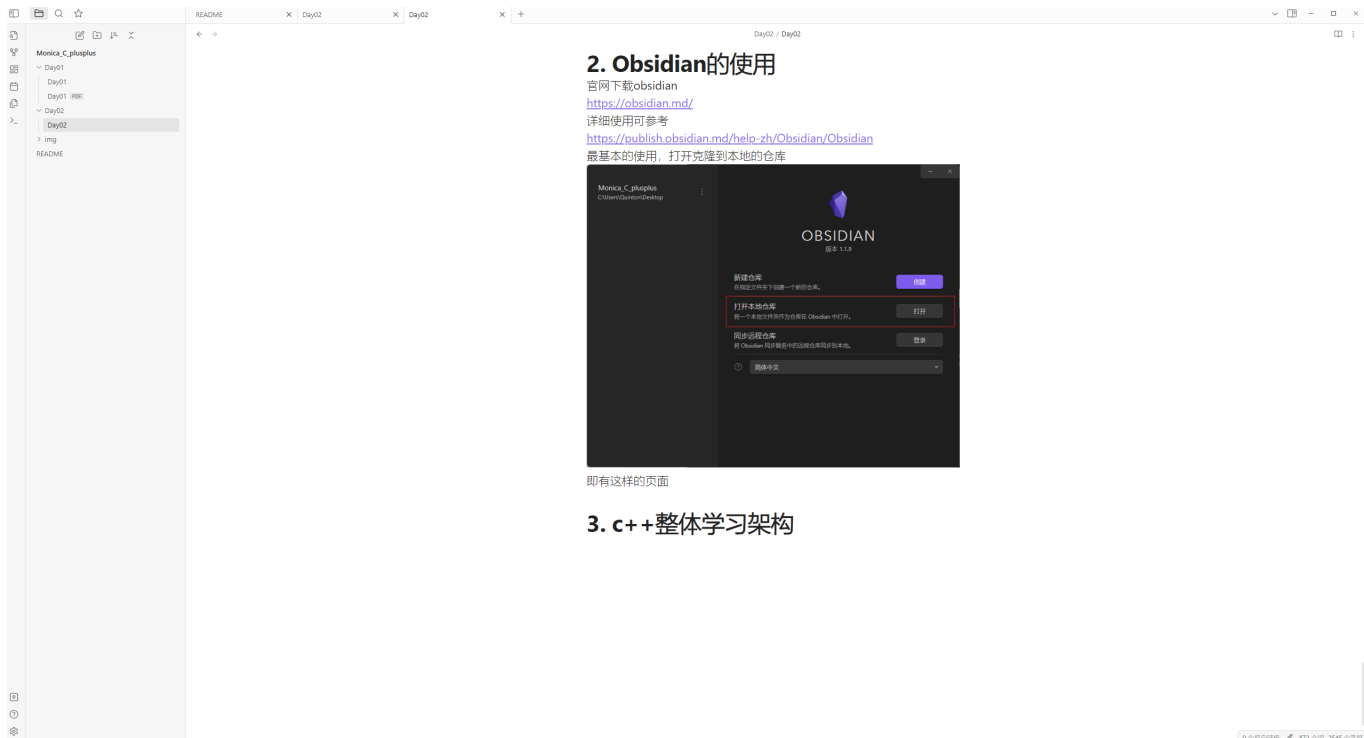
详细使用可参考

<https://publish.obsidian.md/help-zh/Obsidian/Obsidian>

最基本的使用，打开克隆到本地的仓库



即有这样的页面

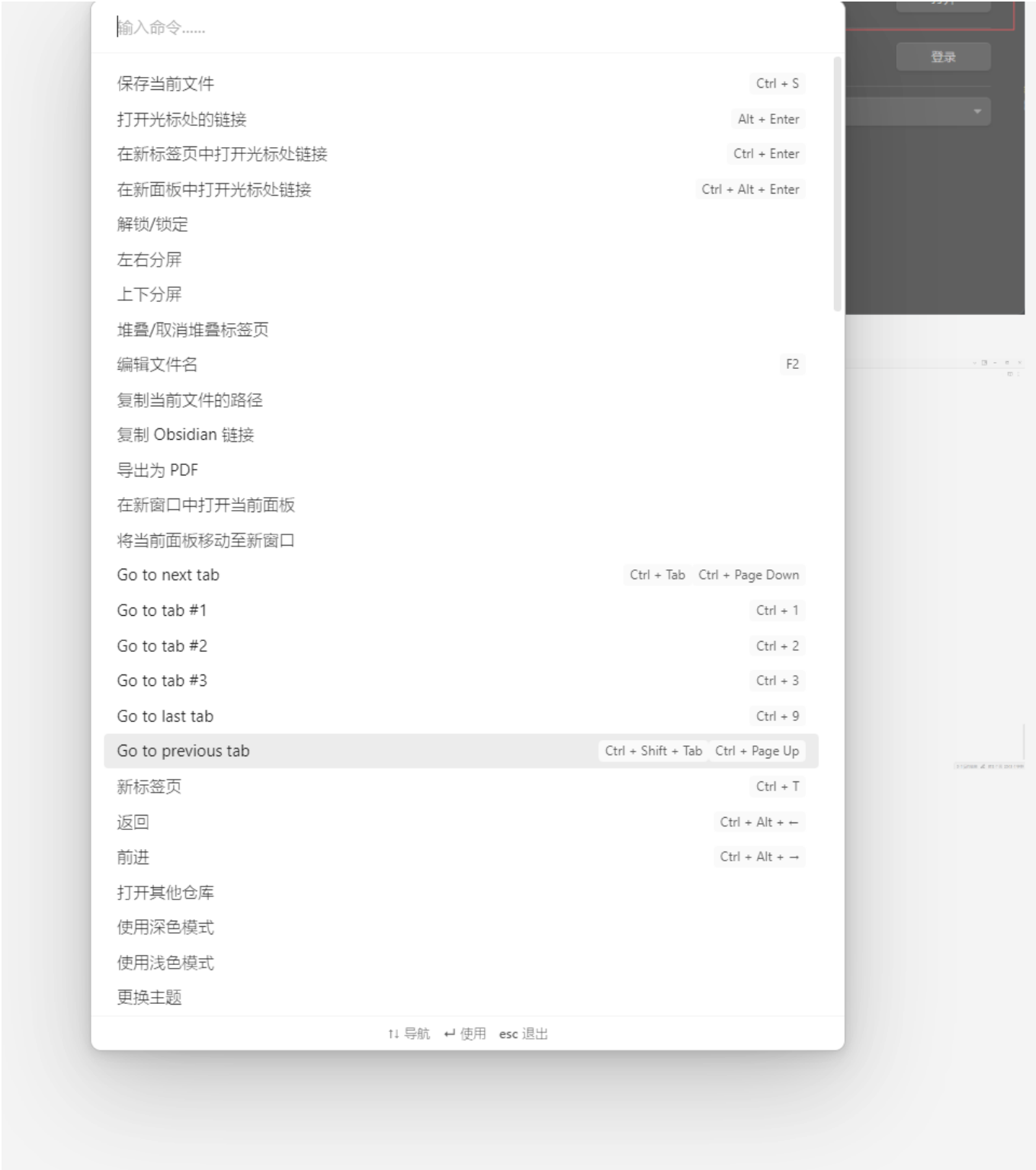


即有这样的页面

### 3. c++整体学习架构



编辑语法为markdown，使用ctrl+p可以调出帮助页面



图片过小，右键图片查看原图

