

1 安装Git

- 一路默认就行了
- 打开Git Bash
- 绑定用户名和邮箱，就是你github的用户名和邮箱

```
git config --global user.name "wangshuaikun2021"
git config --global user.email "wangshuaikun2021@163.com"
```

- 黑人的命也是命，请把你的默认分支改为 main

```
git config --global init.defaultbranch=main
```

- `git config --list` 可以查看git的配置信息
- 生成秘钥

```
ssh-keygen -t rsa -C "wangshuaikun2021@163.com"
```

```
tangan@LAPTOP-L20AEM2E MINGW64 ~
$ ssh-keygen -t rsa -C "wangshuaikun2021@163.com"
Generating public/private rsa key pair.
Enter file in which to save the key (/c/Users/tangan/.ssh/id_rsa):
Created directory '/c/Users/tangan/.ssh'.
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /c/Users/tangan/.ssh/id_rsa
Your public key has been saved in /c/Users/tangan/.ssh/id_rsa.pub
The key fingerprint is:
SHA256:0QCCG2W0w5yMswH4+MpwUeUFCdJS2Y0fRQmtNIyICIk wangshuaikun2021@163.com
The key's randomart image is:
+---[RSA 3072]---+
|*==*.=o*oBo=o.|
|EB *.*=.* o|
|+=B o ..o +|
|o+.o . +|
|.. . S|
| .. .|
|...|
|.o|
|. |
+----[SHA256]-----+
```

- 到秘钥生成的文件夹下，找到 `id_rsa.pub`，打开，复制秘钥
- 将秘钥添加到你的github账号上

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SSH keys

This is a list of SSH keys associated with your account that GitHub can recognize.

Authentication Keys

key20230721

SHA256:0QCCG2W0w5yMswH4+MplUeUFCdJ52

Added on Jul 21, 2023

Never used — Read/write

Check out our guide to [generating SSH keys](#) or [troubleshooting](#).

GPG keys

There are no GPG keys associated with your account.

Learn how to [generate a GPG key](#) and [add it to your account](#).

wangshuaikun2021

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Tell us a little bit about yourself

You can @mention other users and organizations to link to them.

https://github.com/settings/keys

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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

key20230721

SHA256:0QCCG2W0w5yMswH4+MplUeUFCdJ52Y0fRQmtNIyICIk

Added on Jul 21, 2023

Never used — Read/write

Delete

Check out our guide to [generating SSH keys](#) or troubleshoot [common SSH problems](#).

GPG keys

New GPG key

There are no GPG keys associated with your account.

Learn how to [generate a GPG key](#) and [add it to your account](#).

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Add new 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

- 随便取个名字，把秘钥站进去，添加即可

2 上传下载项目

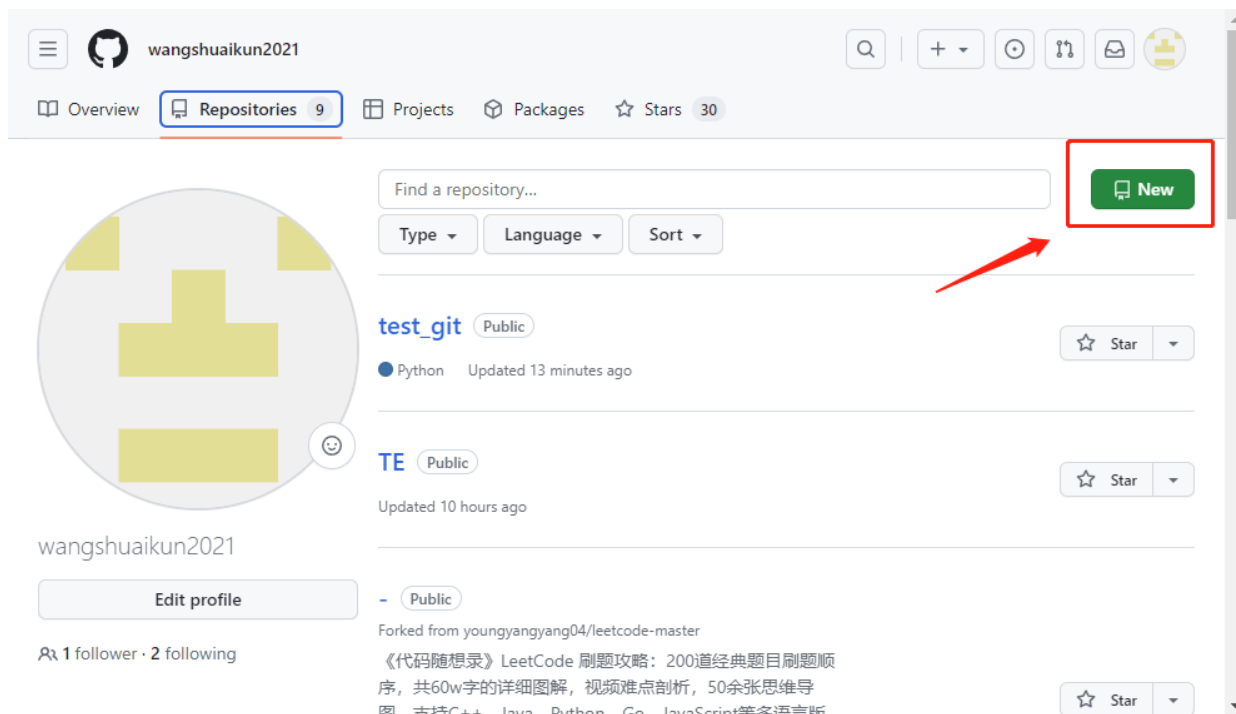
- 常用指令
- 基本配置
 - `git --version`: 返回版本号
 - `git --help`: 帮助文档
 - `git config --list`: 查看所有配置
 - `git config --list --show-origin`: 查看所有配置以及它们所在的文件
 - `git config --global user.name "用户名"`: 全局配置用户名
 - `git config --global user.email 邮箱地址`: 全局配置邮箱
 - `git config user.name`: 查看用户名
 - `git config user.email`: 查看邮箱

我们在 GitHub 的每次提交理论上都会在 主页的下面产生一条绿色小方块的记录，如果你确认你提交了，但是没有绿色方块显示，那肯定是你提交代码配置的邮箱跟你 GitHub 上的邮箱不一致，GitHub 上的邮箱可以到 Setting -> Emails里查看。

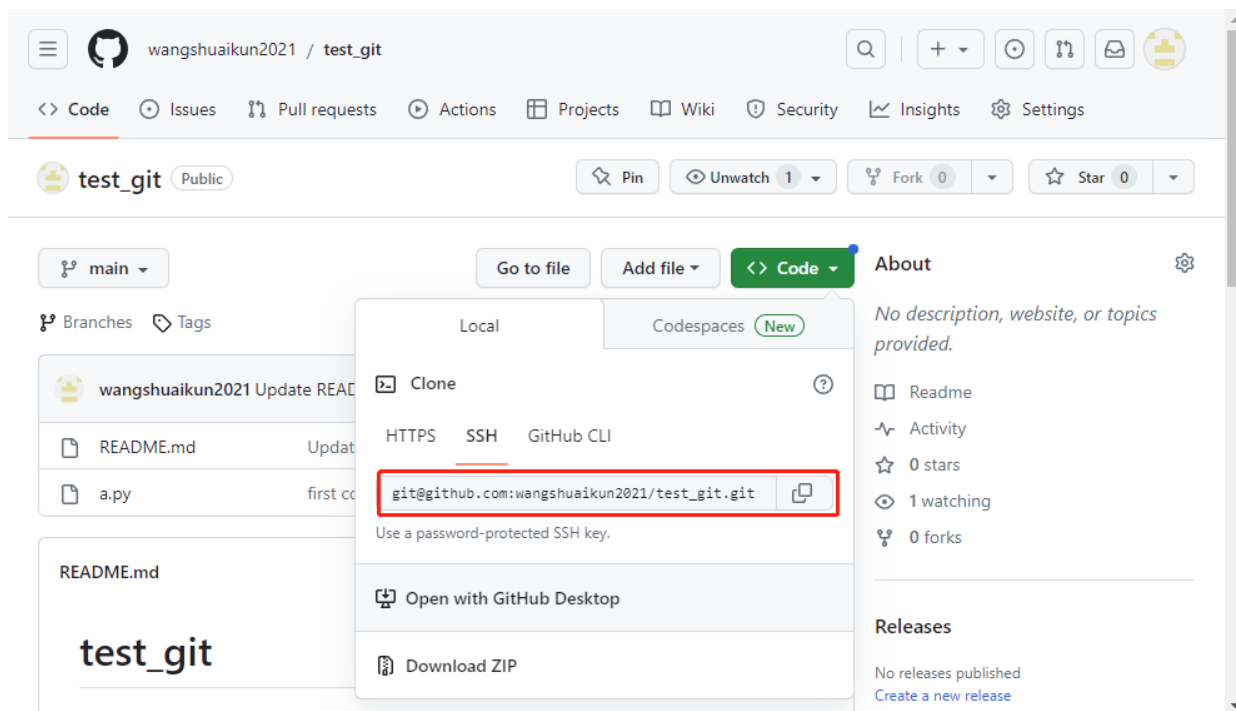
- 基本操作
 - `git status`: 查看仓库状态
 - `git init`: 创建一个空仓库，或者重新初始化一个已有仓库
 - `git add`: 把文件添加到可提交列表（临时缓冲区）
 - `git commit`: 提交改动（增删改）至仓库
 - `git log`: 打印提交日志
 - `git branch`: 查看、添加、删除分支
 - `git checkout`: 切换分支、标签
 - `git merge`: 合并分支
 - `git tag`: 新建、查看标签
 - `git clone`: 下载仓库

```
git init //把这个目录变成Git可以管理的仓库
git add README.md //文件添加到仓库
git add . //不但可以跟单一文件，还可以跟通配符，更可以跟目录。一个点就把当前目录下所有未追踪的文件全部add了
git commit -m "first commit" //把文件提交到仓库
git remote add origin git@github.com:wangjiax9/practice.git //关联远程仓库
git push -u origin master //把本地库的所有内容推送到远程库上
```

- 在github新建一个仓库



- 复制SSH地址



- 在你本地的一个空文件夹下打开Git Bash，克隆到本地

```
git clone git@github.com:wangshuaikun2021/test_git.git
```

- 会多一层文件夹，cd到那里面
- `git log` 可以查看git的日志信息

```
tangan@LAPTOP-L20AEM2E MINGW64 /e/some_projects/myPackage/github测试2/test_git (main)
$ git log
commit d2008bc270c4288f4192cc3cd1cd75538e1e39c3 (HEAD -> main, origin/main, origin/HEAD)
Author: wangshuaikun2021 <90167527+wangshuaikun2021@users.noreply.github.com>
Date: Fri Jul 21 23:01:06 2023 +0800

    Initial commit
```

- 然后就可以开始你的项目了，比如新建了一个py文件，`a.py`，只需要 `git add` 然后 `git commit` 然后 `git push` 到github上即可，具体如下：

```
git add --all
git commit -m "first commit"
git push origin main
```

- 你可以随时 `git log` 查看日志信息

```
tangan@LAPTOP-L20AEM2E MINGW64 /e/some_projects/myPackage/github测试2/test_git (main)
$ git log
commit d2c36617576e049a4453e1f1c94784e0dccc52dc (HEAD -> main, origin/main, origin/HEAD)
Author: wangshuaikun2021 <wangshuaikun2021@163.com>
Date: Fri Jul 21 23:07:38 2023 +0800

    first commit

commit d2008bc270c4288f4192cc3cd1cd75538e1e39c3
Author: wangshuaikun2021 <90167527+wangshuaikun2021@users.noreply.github.com>
Date: Fri Jul 21 23:01:06 2023 +0800

    Initial commit
```

- 如果你的远程仓库更新了，你想更新到本地，`pull`就行了

```
git pull origin main
```

- `pull`的时候有时候因为网络问题会报错，提示你连接关闭了，多试几次就行了

```
tangan@LAPTOP-L20AEM2E MINGW64 /e/some_projects/myPackage/github测试2/test_git (main)
$ git pull origin main
kex_exchange_identification: Connection closed by remote host
Connection closed by 20.205.243.166 port 22
fatal: Could not read from remote repository.

Please make sure you have the correct access rights
and the repository exists
```