GitHub Guides

GitHub Guides
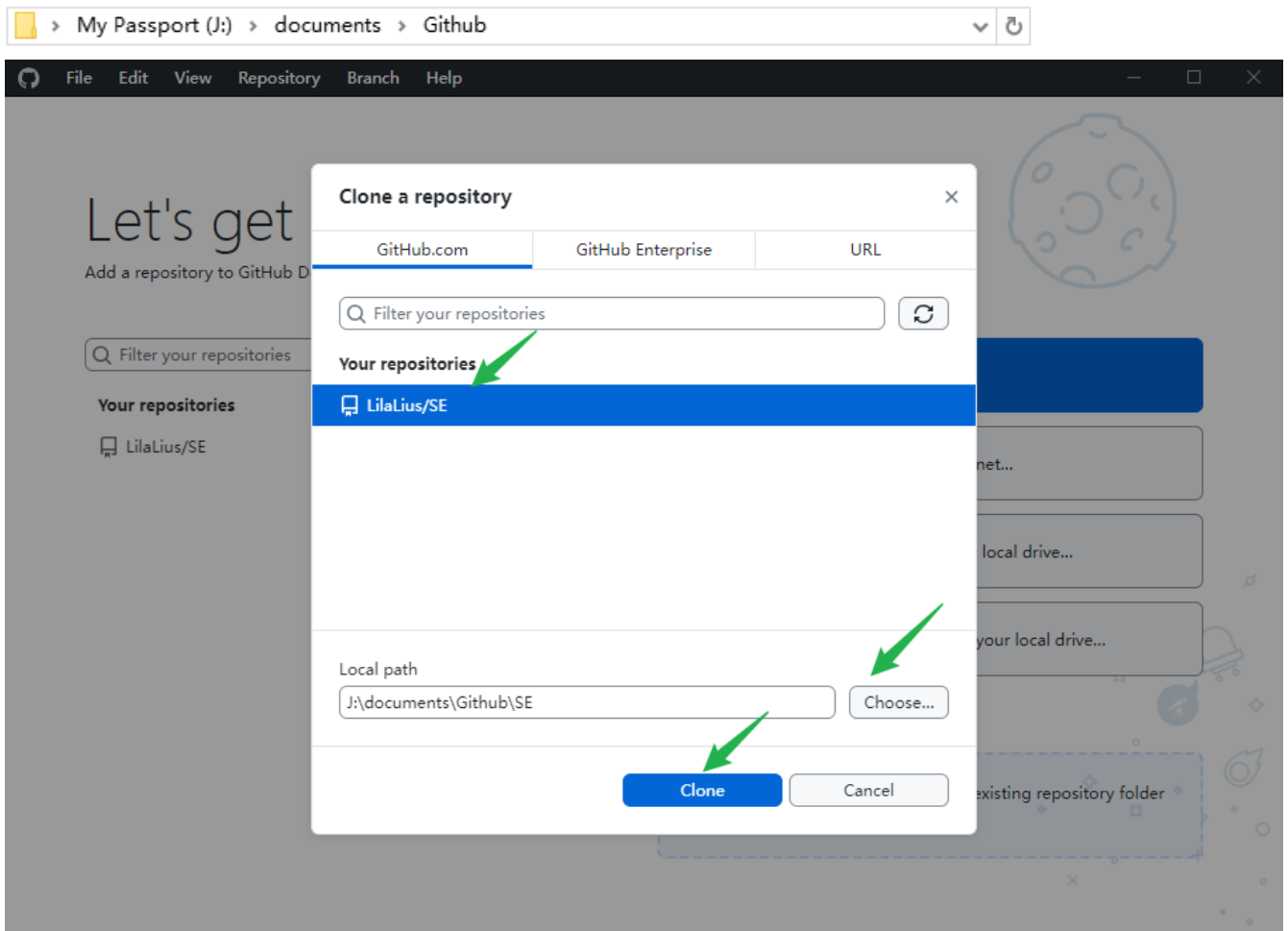
先看视频，可以结合文档看

创建repository

略

使用git clone+git仓库地址将某个仓库下载到本地

Cloning into 'J:\documents\Github\SE'...

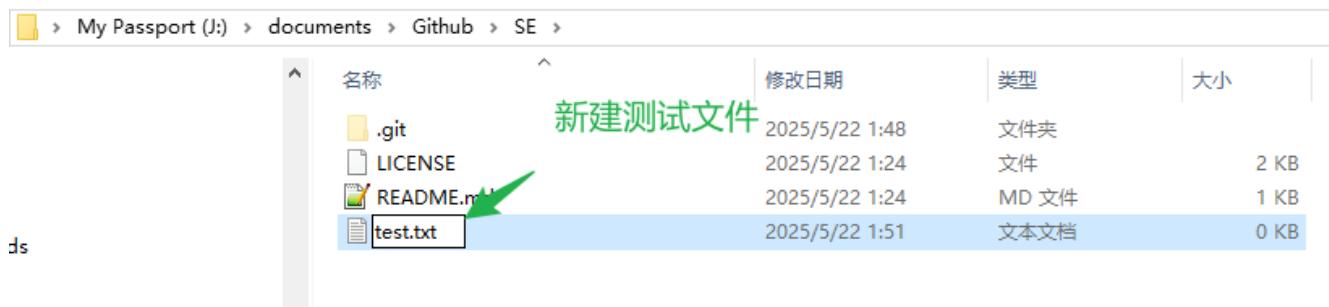# 将更改 commit到本地git

- 初始git

git查看修改状态

```
1  git status
```

```
J:\documents\Github\SE>git status
On branch main
Your branch is up to date with 'origin/main'.

nothing to commit, working tree clean
```

新建文件

新建测试文件
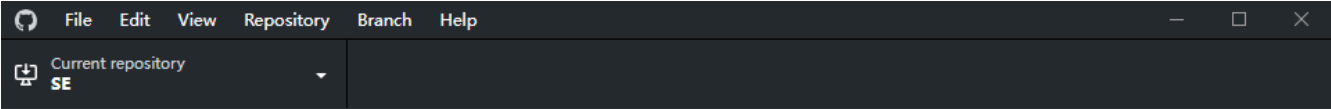
名称	修改日期	类型	大小
.git	2025/5/22 1:48	文件夹	
LICENSE	2025/5/22 1:24	文件	2 KB
README.md	2025/5/22 1:24	MD 文件	1 KB
test.txt	2025/5/22 1:51	文本文档	0 KB

git查看修改的状态

```
J:\documents\Github\SE>git status
On branch main
Your branch is up to date with 'origin/main'.

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        test.txt

nothing added to commit but untracked files present (use "git add" to track)
```

git指定本次commit包含的文件

```
1    git add
```

```
1    git add .
```

```
J:\documents\Github\SE>git add test.txt

J:\documents\Github\SE>git status
On branch main
Your branch is up to date with 'origin/main'.

Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        new file:   test.txt
```
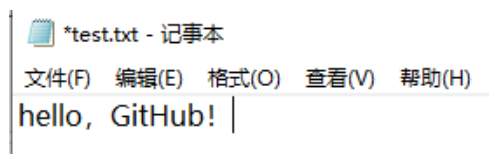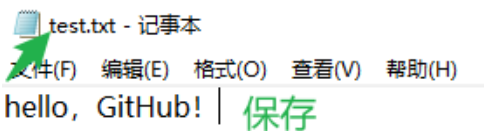
git完成一次到本地git的commit

```
1    git commit -a -m ""
```

```
J:\documents\Github\SE>git commit -a -m "update"
[main d0f0957] update
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 test.txt

J:\documents\Github\SE>git status
On branch main
Your branch is ahead of 'origin/main' by 1 commit.
  (use "git push" to publish your local commits)

nothing to commit, working tree clean
```

*test.txt - 记事本

文件(F) 编辑(E) 格式(O) 查看(V) 帮助(H)

hello，GitHub!

test.txt - 记事本

文件(F)　编辑(E)　格式(O)　查看(V)　帮助(H)

hello，GitHub！ ｜ 保存

```
J:\documents\Github\SE>git status
On branch main
Your branch is ahead of 'origin/main' by 1 commit.
  (use "git push" to publish your local commits)

Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
        modified:   test.txt

no changes added to commit (use "git add" and/or "git commit -a")
```
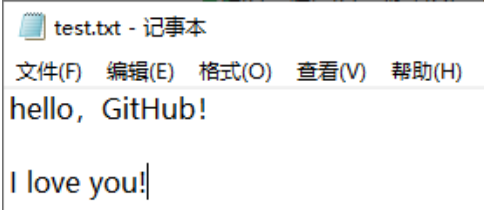
git加所有未保存的文件

```
1   git add .
```

```
J:\documents\Github\SE>git status
On branch main
Your branch is ahead of 'origin/main' by 1 commit.
  (use "git push" to publish your local commits)

Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        modified:   test.txt
```

```
J:\documents\Github\SE>git commit -a -m "update2"
[main 643cb90] update2
 1 file changed, 1 insertion(+)
```

> 只要有更改就会检测到

test.txt - 记事本

文件(F)　编辑(E)　格式(O)　查看(V)　帮助(H)

hello，GitHub！

I love you!

```
J:\documents\Github\SE>git status
On branch main
Your branch is ahead of 'origin/main' by 2 commits.
  (use "git push" to publish your local commits)

Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
        modified:   test.txt

no changes added to commit (use "git add" and/or "git commit -a")

J:\documents\Github\SE>git add test.txt
J:\documents\Github\SE>git status
On branch main
Your branch is ahead of 'origin/main' by 2 commits.
  (use "git push" to publish your local commits)

Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        modified:   test.txt


J:\documents\Github\SE>git commit -a -m "update3"
[main 4ca686e] update3
 1 file changed, 3 insertions(+), 1 deletion(-)

J:\documents\Github\SE>git status
On branch main
Your branch is ahead of 'origin/main' by 3 commits.
  (use "git push" to publish your local commits)

nothing to commit, working tree clean

J:\documents\Github\SE>
```

恢复到某个commit

git看一下之前的commit

```
1   git log
```

git恢复到某个commit

```
1  git reset --hard commit_id
```


push和pull操作

将本地内容同步到云端

```
J:\documents\Github\SE>git push origin
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 8 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 324 bytes | 32.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/LilaLius/SE.git
   91d0507..d0f0957  main -> main
```

同

| File | Edit | View | Repository | Branch | Help |

Current repository
SE

Current branch
main

Fetch origin
Last fetched just now

Changes | History

Filter
0 changed files

No local changes

There are no uncommitted changes in this repository. Here are some friendly suggestions for what to do next.

Open the repository in your external editor
Select your editor in Options
Repository menu or Ctrl + Shift + A

Open in Visual Studio Code

View the files of your repository in Explorer
Repository menu or Ctrl + Shift + F

Show in Explorer

Open the repository page on GitHub in your browser
Repository menu or Ctrl + Shift + G

View on GitHub

Summary (required)

Description

Commit to **main**

SE (Public)

Pin | Unwatch 1

main | 1 Branch | 0 Tags

Go to file | t

Add file | <> Code

LilaLius Update README.md

91d0507 · 2小时前 | 2 Commits

| LICENSE | Initial commit | 10小时前 |
| README.md | Update README.md | 2小时前 |

README | MIT license

SE

《软件工程》课程相关

刷新

SE Public   📌 Pin   👁 Unwatch 1

🔀 main ▾   🔀 1 Branch   🏷 0 Tags   🔍 Go to file   t   Add file ▾   `<> Code` ▾

刘苗 update   d0f0957 · 1小时前   🕐 3 Commits

📄 LICENSE   Initial commit   10小时前
📄 README.md   Update README.md   2小时前
📄 test.txt   update   1小时前

📖 README   ⚖ MIT license   ✏

SE

《软件工程》课程相关

从云端拉取内容

```
1    git pull
```

#? ？？

```
J:\documents\Github\SE>git pull
error: RPC failed; curl 56 Recv failure: Connection was reset
fatal: expected flush after ref listing

J:\documents\Github\SE>git pull
fatal: unable to access 'https://github.com/LilaLius/SE.git/': Failed to connect to github.com port 443 after 21127 ms: Couldn't connect to server
```

```
1    J:\documents\Github\SE>git pull
2    error: RPC failed; curl 56 Recv failure: Connection was reset
3    fatal: expected flush after ref listing
```

```
1    J:\documents\Github\SE>git pull
2    fatal: unable to access 'https://github.com/LilaLius/SE.git/': Failed to connect to
     github.com port 443 after 21127 ms: Couldn't connect to server
```

关闭VPN

```
J:\documents\Github\SE>git pull
fatal: unable to access 'https://github.com/LilaLius/SE.git/': Recv failure: Connection was reset
```

```
1    J:\documents\Github\SE>git pull
2    fatal: unable to access 'https://github.com/LilaLius/SE.git/': Recv failure: Connection
     was reset
```

```
J:\documents\Github\SE>git pull
Already up to date.
```

使用分支

创建新branch

```
1    git branch 新branch名称
```

```
J:\documents\Github\SE>git branch
* main

J:\documents\Github\SE>git branch first_new_branch

J:\documents\Github\SE>git branch
  first_new_branch
* main
```

要push一下

切换branch

```
1    git checkout
```

```
J:\documents\Github\SE>git checkout first_new_branch
Switched to branch 'first_new_branch'
```

```
J:\documents\Github\SE>git status
On branch first_new_branch
nothing to commit, working tree clean
```

test.txt - 记事本
文件(F) 编辑(E) 帮
new feature

```
J:\documents\Github\SE>git status
On branch first_new_branch
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
        modified:   test.txt

no changes added to commit (use "git add" and/or "git commit -a")

J:\documents\Github\SE>git add test.txt

J:\documents\Github\SE>git status
On branch first_new_branch
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        modified:   test.txt


J:\documents\Github\SE>git commit -a -m "update"
[first_new_branch 4605051] update
 1 file changed, 1 insertion(+)

J:\documents\Github\SE>git status
On branch first_new_branch
nothing to commit, working tree clean
```

push

合并branch

回到主分支

```
J:\documents\Github\SE>git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.
```

📄 test.txt - 记事本

文件(F) 编辑(E) 格式(O) 查看(V) 帮助(H)

1	git merge

```
J:\documents\Github\SE>git merge   first_new_branch
Updating d0f0957..4605051
Fast-forward
 test.txt | 1 +
 1 file changed, 1 insertion(+)

J:\documents\Github\SE>git status
On branch main
Your branch is ahead of 'origin/main' by 1 commit.
  (use "git push" to publish your local commits)

nothing to commit, working tree clean
```

位于分支 main
您的分支领先 'origin/main' 共 1 个提交。
  (使用 "git push" 来发布您的本地提交)

无文件要提交，干净的工作区

📄 test.txt - 记事本

文件(F) 编辑(E) 格式(O) 查看(V) 帮助(H)

new feature

push

删除branch

```
1    git branch -D branch名称
```

```
J:\documents\Github\SE>git branch -D   first_new_branch
Deleted branch first_new_branch (was 4605051).

J:\documents\Github\SE>git branch
* main
```

同步到云端

```
J:\documents\Github\SE>git push origin
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 8 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 279 bytes | 279.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/LilaLius/SE.git
   d0f0957..4605051  main -> main
```

SE / test.txt

刘苗 update

| Code | Blame | 1 lines (1 loc) · |

1   new feature

在Git repository中创建一个 e1 目录