

git学习笔记

Git study

1. git的文件管理机制-----快照
2. 分支管理机制-----指针

GitHub

1. 创建一个本地库
2. 创建一个远程库

```
git remote -v 查看当前拥有的远程库地址
```

```
git remote add origin [远程库地址]
```

- 增加一个远程库地址
- origin 表示的是该远程库的地址的别名

```
git push [远程库地址别名] [分支名]-----推送操作
```

出现的错误及解决方法

```
HP@Ã·Ã÷·Ç MINGW64 /d/GitHub/WeChat (main)
$ git pull origin main
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (3/3), 610 bytes | 46.00 KiB/s, done.
From https://github.com/12138study/WeChat
 * branch          main      -> FETCH_HEAD
 * [new branch]    main      -> origin/main
fatal: refusing to merge unrelated histories

HP@Ã·Ã÷·Ç MINGW64 /d/GitHub/WeChat (main)
$ git push origin main
To https://github.com/12138study/WeChat.git
 ! [rejected]        main -> main (non-fast-forward)
error: failed to push some refs to 'https://github.com/12138study/WeChat.git'
hint: Updates were rejected because the tip of your current branch is behind
hint: its remote counterpart. Integrate the remote changes (e.g.
hint: 'git pull ...') before pushing again.
hint: See the 'Note about fast-forwards' in 'git push --help' for details.

HP@Ã·Ã÷·Ç MINGW64 /d/GitHub/WeChat (main)
$ git pull origin main --allow-unrelated-histories
From https://github.com/12138study/WeChat
 * branch          main      -> FETCH_HEAD
Merge made by the 'ort' strategy.
 README.md | 2 ++
 1 file changed, 2 insertions(+)
 create mode 100644 README.md

HP@Ã·Ã÷·Ç MINGW64 /d/GitHub/WeChat (main)
$ git push origin main
Enumerating objects: 12, done.
Counting objects: 100% (12/12), done.
Delta compression using up to 8 threads
Compressing objects: 100% (5/5), done.
Writing objects: 100% (11/11), 1002 bytes | 334.00 KiB/s, done.
Total 11 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/12138study/WeChat.git
 bda8520..aa950bc  main -> main
```

`git clone [远程库地址]`-----克隆远程库到本地库

执行的操作:

1. 完整将远程库下载到本地库
2. 创建origin远程地址别名
3. 初始化本地库

`git fetch origin main`-----抓取远程库文件

- 本地文件没有改变

`git checkout origin/main`-----进入到抓取到的地址

`cat [文件名]`-----查看抓取下来的文件内容

`git merge origin/main`-----合并远程库与本地库文件

`git pull origin main`-----拉取操作

- pull = fetch + merge

