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一. 开始

1. 下载 git : <https://www.git-scm.com/downloads>
2. 安装成功后右键菜单会多出来两个选项:
 Git GUI Here
 Git Bash Here
 (大部分的 Git Bash Here 中的操作都可以通过 Git GUI Here 解决)
3. 克隆远程仓库到本地仓库: `git clone 远程仓库地址` (通过该指令本地仓库会自动建立与远程仓库的关联)

二. 上传/删除

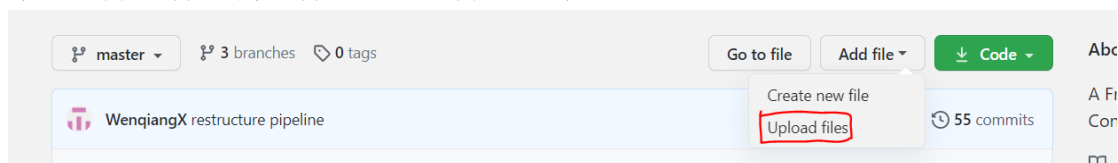
本地仓库上传文件到远程仓库:

Bash 方式:

1. 右键打开 Git Bash Here, `cd` 到本地仓库根路径下;
2. 添加单个: `git add 文件/文件夹名称` (注意: 不能 add 空文件夹)
3. 添加全部文件 `git add .`
4. 提交注释: `git commit -m '注释'`
5. 最后: `git push`

网站方式:

本地仓库文件上传文件到远程仓库可以采用下图方式



但该方法不能超出 100 个文件，若超出 100 个文件请采用 bash 方式

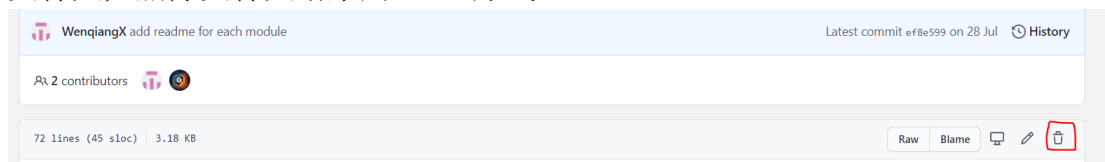
删除远程仓库文件：

Bash 方式

1. 右键打开 Git Bash Here, cd 到本地仓库根路径下；
2. 执行添加：git rm -r --cached ‘文件名/文件夹名’
3. 提交注释：git commit -m ‘注释’
4. 最后：git push

网站方式：

删除远程仓库文件也可采用下图方式， 但该方法仅能删除单个文件， 不能删除文件夹，删除文件夹请采用 bash 方式



三. 常用命令

其他

- 推送失去关联的分支 git push --set-upstream origin 分支名
- 显示信息：git show 分支名/标签名
- 显示本地仓库端与远程仓库差别 git remote show origin
- 删除所有缓存区文件 git rm -r --cached .
- 查看当前 git 状态信息（查看是否有文件未提交） git status

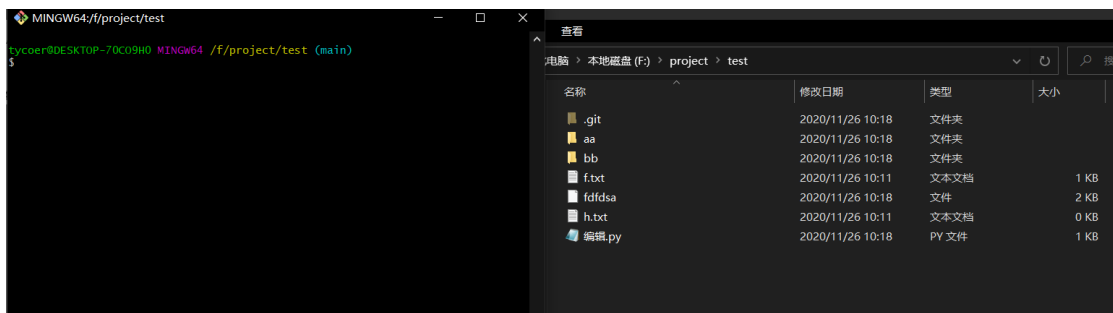
branch 分支

2020 年 10 月 1 日以后所有新创建的 Repositories 的默认主分支的名字是 main 而不是 master；

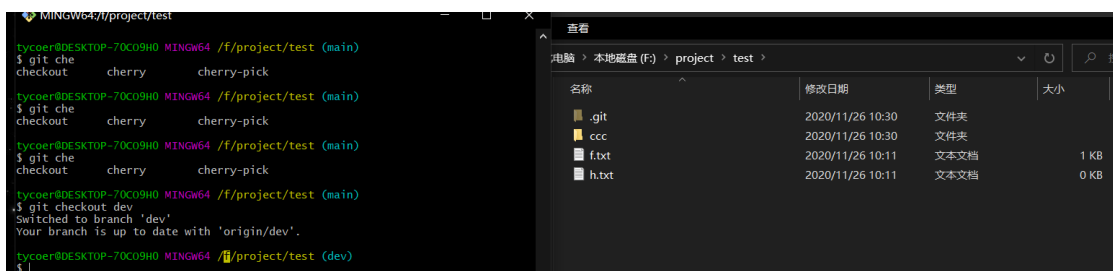
- 创建分支 git branch 分支名
- 列出所有分支 git branch -a
- 切换分支 git checkout 分支名

注意!! 切换分支后你的本地仓库文件随之修改

分支 main 状态下:



分支 dev 状态下, 可以看到本地仓库文件也跟着切换了



- 合并分支 `git merge 分支名` (合并时可能存在文件冲突, 查看冲突文件 `git status`, 合并后)
合并时发生冲突:

```
tycoer@DESKTOP-70C09H0 MINGW64 /f/project/test (dev)
$ git merge main
CONFLICT (modify/delete): 编辑.py deleted in HEAD and modified in main. Version
main of 编辑.py left in tree.
Automatic merge failed; fix conflicts and then commit the result.
```

`git status` 查看冲突文件, 分支 dev 变成 dev|MERGING

```
tycoer@DESKTOP-70C09H0 MINGW64 /f/project/test (dev|MERGING)
$ git status
On branch dev
Your branch is up to date with 'origin/dev'.

You have unmerged paths.
  (fix conflicts and run "git commit")
  (use "git merge --abort" to abort the merge)

Changes to be committed:
  new file:   f.txt
  new file:   h.txt

Unmerged paths:
  (use "git add/rm <file>..." as appropriate to mark resolution)
    deleted by us:   "\347\274\226\350\276\221.py"
```

dev|MERGING 状态下如果切换分支会报错:

```
tycoer@DESKTOP-70C09H0 MINGW64 /f/project/test (dev|MERGING)
$ git checkout main
error: you need to resolve your current index first
编辑.py: needs merge
```

dev|MERGING 状态下应 `add-commit-push` 后再进行后续操作, 可以看到

push 后 dev | MERGING 变回 dev

```
tycoer@DESKTOP-70C09H0 MINGW64 /f/project/test (dev|MERGING)
$ git add .

tycoer@DESKTOP-70C09H0 MINGW64 /f/project/test (dev|MERGING)
$ git commit -m 'a'
[dev 57432c4] a

tycoer@DESKTOP-70C09H0 MINGW64 /f/project/test (dev)
$ git push
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 12 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (2/2), 311 bytes | 311.00 KiB/s, done.
Total 2 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/tycoer/test
5b97bd3..57432c4 dev -> dev
```

此时再切换分支就成功了

```
tycoer@DESKTOP-70C09H0 MINGW64 /f/project/test (dev)
$ git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.

tycoer@DESKTOP-70C09H0 MINGW64 /f/project/test (main)
$ |
```

- 删除本地仓库分支 `git branch -d 分支名`
- 删除远程分支 `git push origin --delete branch`
- 将创建的分支推送到 远程仓库 `git push origin 分支名`
- 从远程上更新到本地仓库 `git pull origin 分支名`

Tag 标签

- 创建标签 `git tag 标签名 -m 注释`
- 列出所有标签 `git tag -a`
- 将创建的标签推送到 github 上 `git push origin 标签名`
- 删除本地仓库 Tag 命令: `git tag -d 标签名`
- 删除远程 Tag 命令: `git push origin --delete 标签名`

四. Pull Request (PR)

<https://www.cnblogs.com/momo798/p/11599679.html>

五. Code Review

1. 给代码添加评论(具体给某一条语句添加评论)

The screenshot shows the GitHub repository 'tycoer' with a commit 'Add files via upload' by user 'tycoer' on Oct 22, 2020. The commit hash is 8ddb9d7. A red box highlights the '1 commits' link. Below the commit list, the 'Commits on Oct 22, 2020' section shows the same commit. A red box highlights the 'Add files via upload' link. The 'Files changed' section shows a diff for 'realsense.py' with 484 additions and 0 deletions. A red box highlights a comment icon next to a line of code. The comment is from 'tycoer' 30 minutes ago, stating 'Author Owner' and 'VCZVZXCV'. The code diff shows imports for cv2, pyrealsense2, numpy, os, json, and h5py.

2. 通过 PR 的方式添加评论或对比代码:

The screenshot shows a GitHub Pull Request (PR #4) titled 'tycoer wants to merge 6 commits into main from dev'. The PR is open and has 165 -33 changes. The 'Files changed' section shows a diff for 'realsense.py' with 3 changes. A red box highlights a comment icon next to a line of code. The comment is from 'tycoer' 20 hours ago, stating 'Author Owner' and 'VCZVZXCV'. The code diff shows imports for numpy and h5py, and a line of code for 'pull_request = 1'.