**前提准备：**

1. 更改主机名为你的个人姓名；

2. git 工具的下载和安装(https://gitforwindows.org/)；

3. github 上进行注册；

4. Git 开始连接 github 远程仓库。

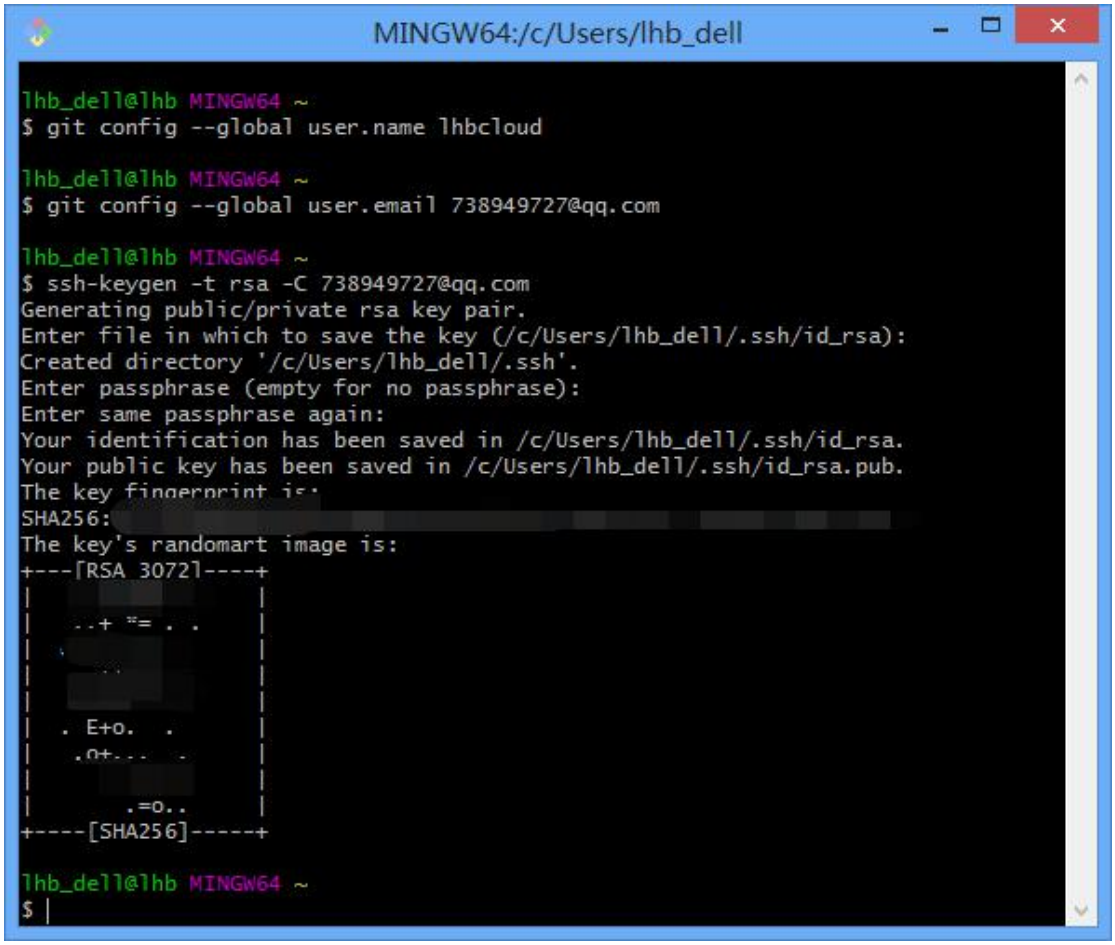
## 一、Git 的配置

1.设置用户名和邮箱(--global 为全局参数，表明本地所有 Git 仓库都会使用这个配置)

```
git config --global user.name "yourname"

git config --global user.email "your_email@youremail.com"
```

2.生成密钥(SSH key)

```
ssh-keygen -t rsa -C "your_email@youremail.com"
```




3.添加密钥(SSH key)，并验证是否成功

添加密钥：将上一步骤生成的密钥即.ssh/id_rsa.pub 中内容全部复制。在 github 的 Settings-->SSH and GPG keys-->New SSH key，key 中粘贴复制的内容(Title 自定义)。

验证：github 输入第一条的命令，码云输入第二条

```
a. ssh -T git@github.com
```

```
lhb_dell@lhb MINGW64 ~
$ ssh -T git@github.com
The authenticity of host 'github.com (13.250.177.223)' can't be established.
RSA key fingerprint is SHA256:nThbg6kXUpJWGl7E1IGOCspRomTxdCARLviKw6E5SY8.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'github.com,13.250.177.223' (RSA) to the list of kno
n hosts.
Hi lhbcloud! You've successfully authenticated, but GitHub does not provide she
l access.

lhb_dell@lhb MINGW64 ~
$
```

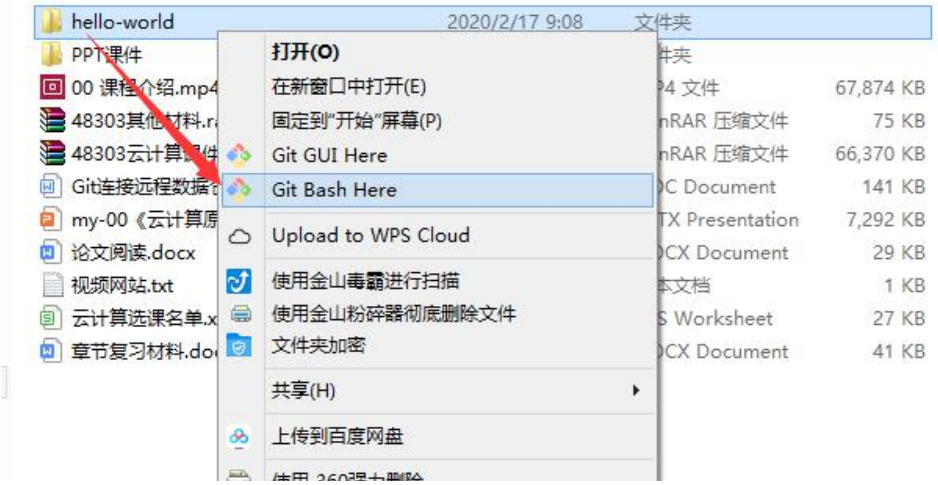
```
b. ssh -T git@gitee.com
```

## 二、创建项目工程

1.远程仓库：在 github 中 New repository 输入 Repository name。[例如：hello-world]

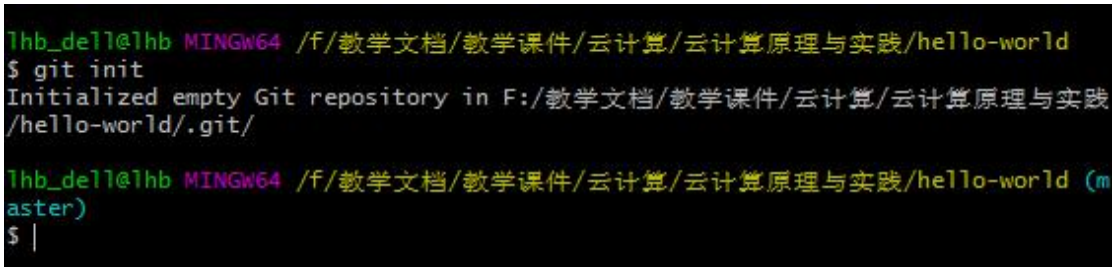
2.项目工程：在自己本地电脑上新建一个与 github 新项目工程同名的文件夹：hello-world

## 三、创建版本库




进入步骤二中的文件夹下，输入以下命令初始化仓库:

```
git init
```




出现：Initialized empty Git repository in E:/** /**/.git/ 则表示创建成功[注意：此时会生成一个.git 目录(隐藏目录)]

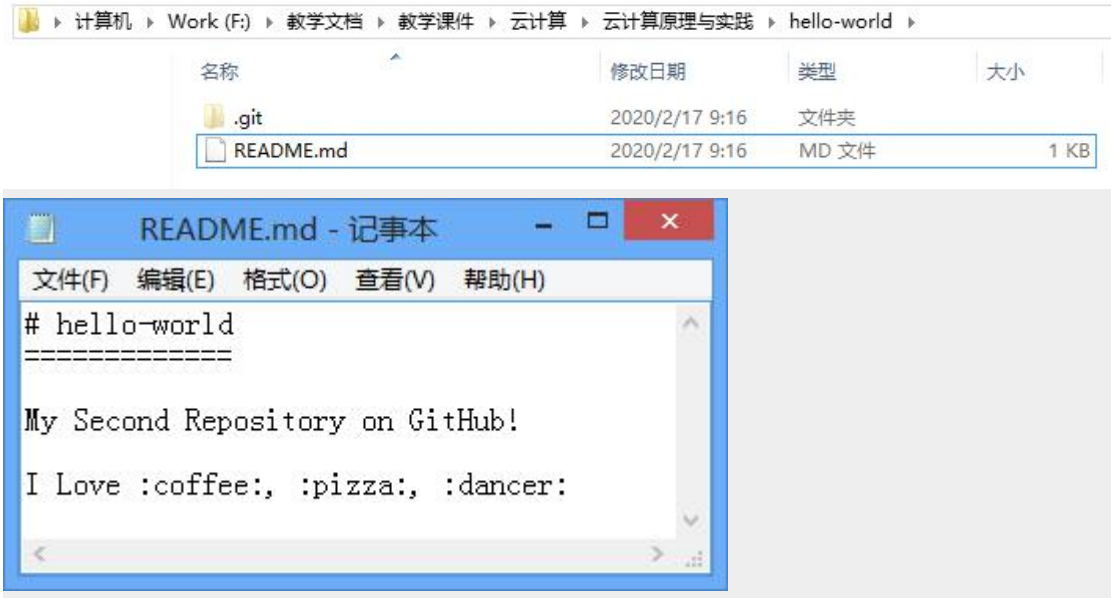

**四、连接远程仓库**(下面两种方式都可以)

```
git remote add origin git@github.com:yourName/repositoryname.git

git remote add origin https://github.com/yourName/repositoryname.git
```


**五、从远程仓库 pull 文件**(若远程仓库没有文件，直接执行步骤六)

```
git pull origin master
```

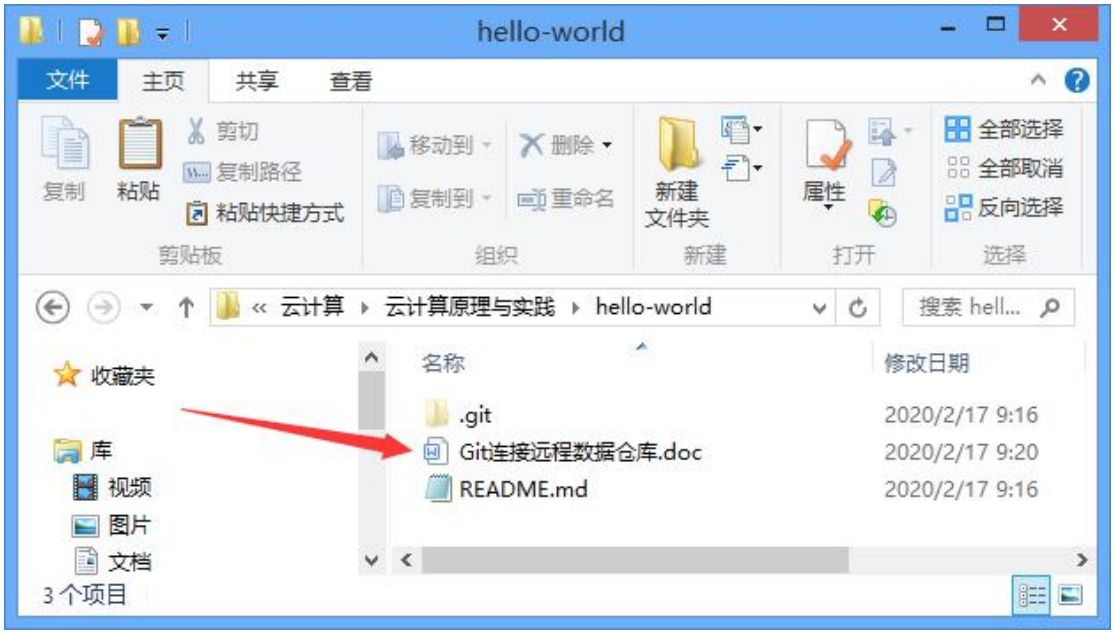
```
lhb_dell@lhb MINGW64 /f/教学文档/教学课件/云计算/云计算原理与实践/hello-world (m
aster)
$ git pull origin master
Warning: Permanently added the RSA host key for IP address '52.74.223.119' to th
e list of known hosts.
remote: Enumerating objects: 6, done.
remote: Counting objects: 100% (6/6), done.
remote: Compressing objects: 100% (3/3), done.
remote: Total 6 (delta 0), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (6/6), 1.25 KiB | 4.00 KiB/s, done.
From github.com:lhbcloud/hello-world
 * branch            master     -> FETCH_HEAD
 * [new branch]      master     -> origin/master

lhb_dell@lhb MINGW64 /f/教学文档/教学课件/云计算/云计算原理与实践/hello-world (m
aster)
$
```



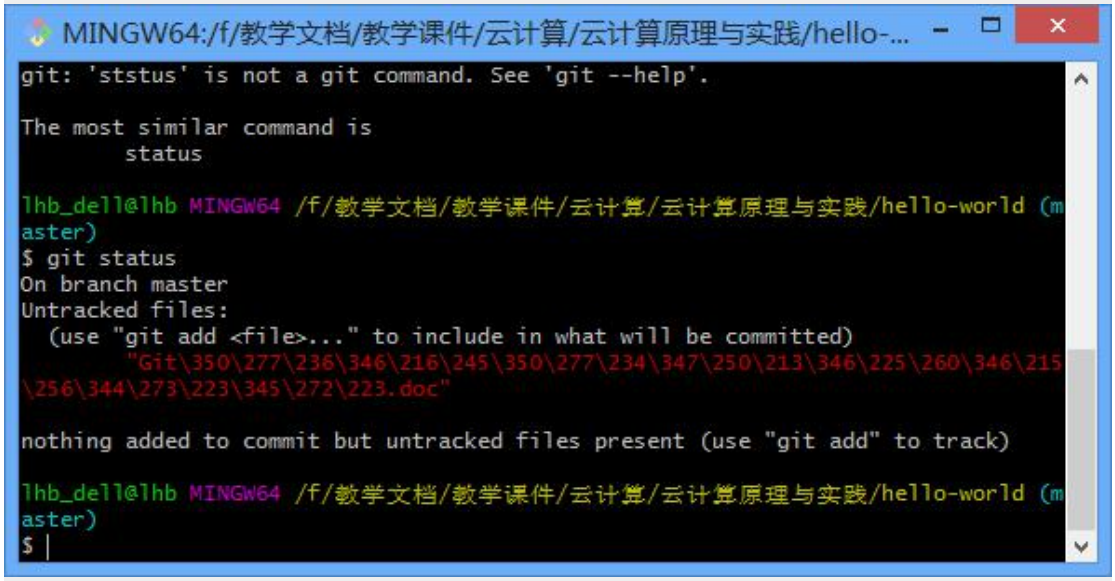




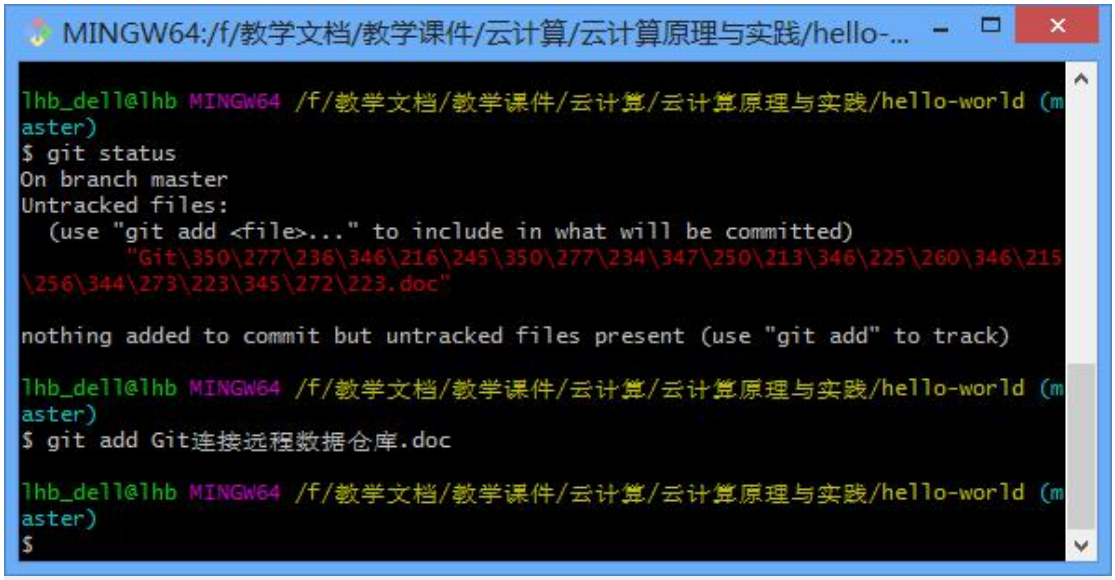
六、**将本地文件 push 到远程仓库**(若没有文件则手动创建)

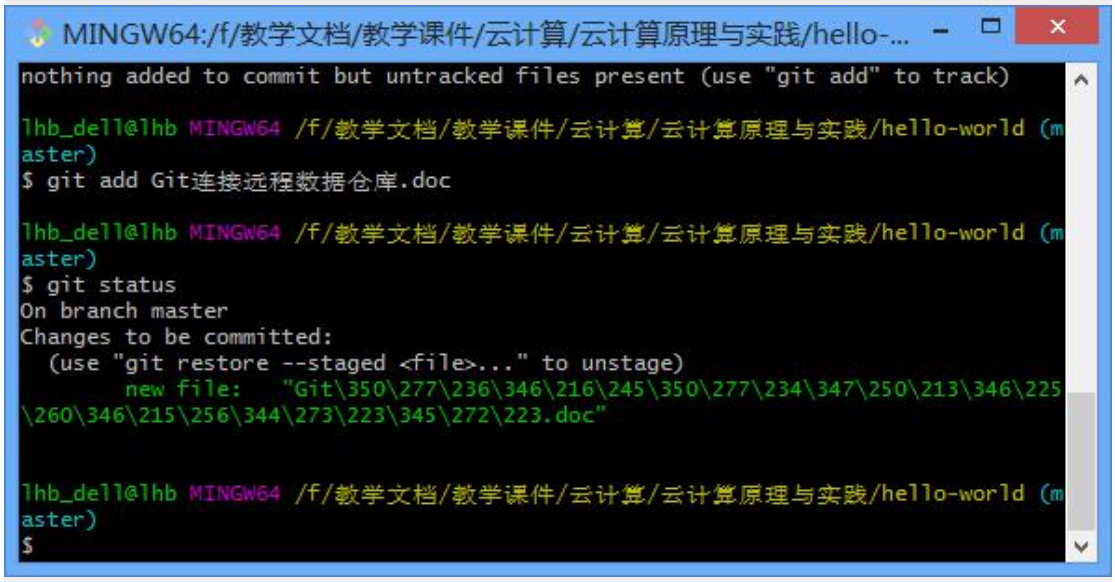



1. `git status` 查看工作目录的状态

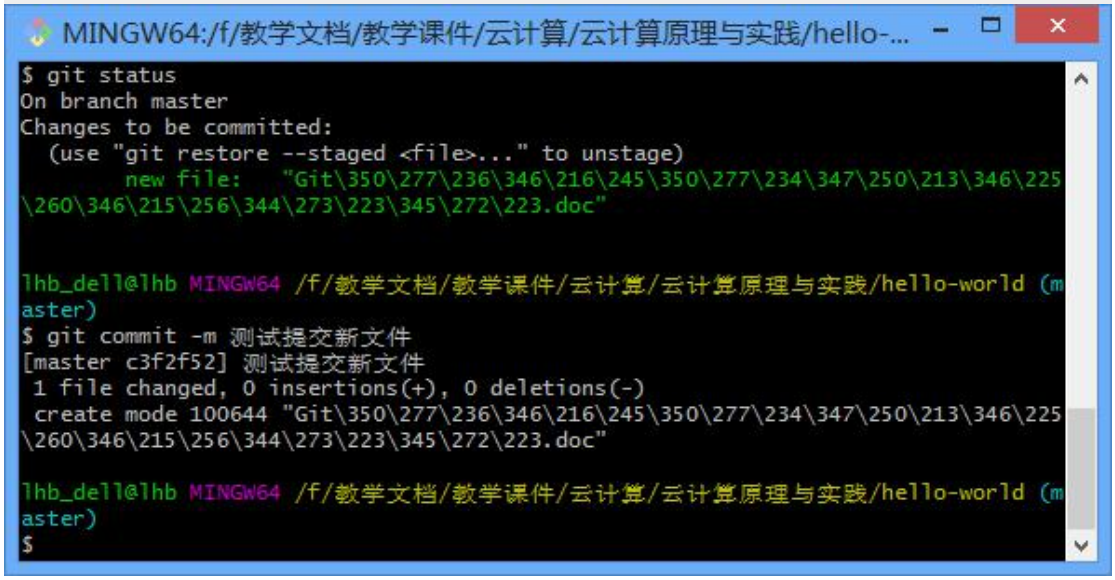



2. `git add <file>` 将文件添加到暂存区

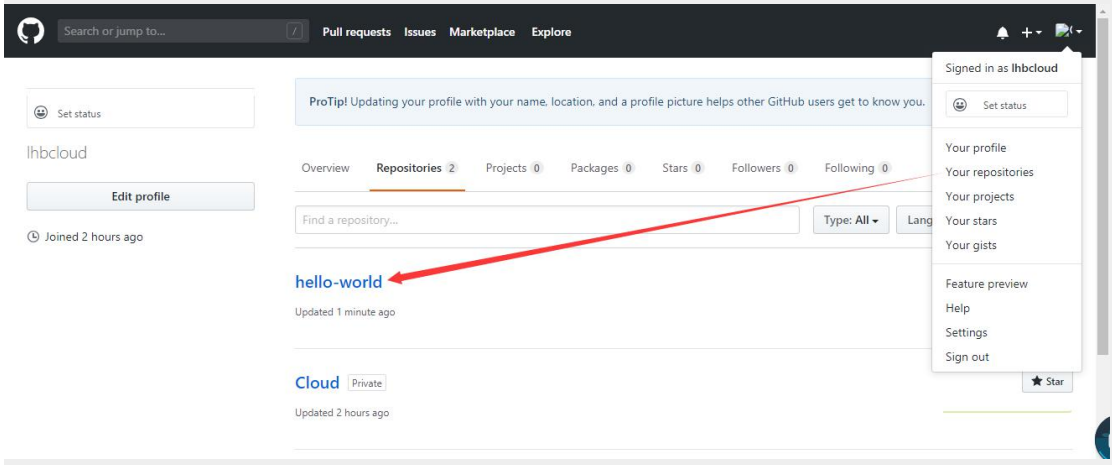


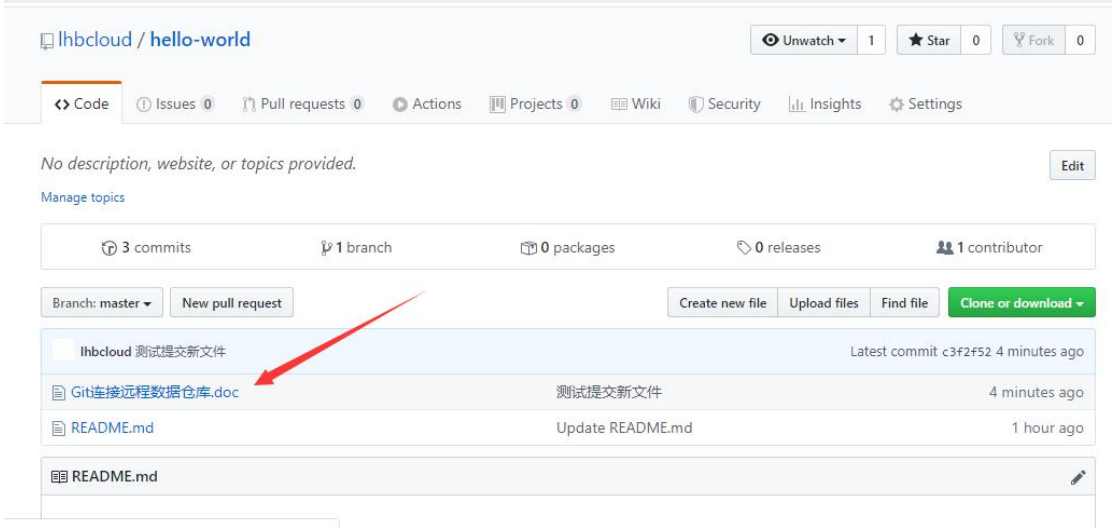




3. `git commit -m "commnet"` 提交更改,添加备注信息(此时将暂存区的信息提交到本地仓库)



4. `git push origin master` 将本地仓库的文件 push 到远程仓库(若 push 不成功，可加 -f 进行强推操作)


注：至此已经完成了 远程与本地仓库的配置，若需要单独配置可见以下操作

## 七、所遇问题及解决办法

### Q1. git pull origin master 无法进行 pull，出现如下提示：

```
git pull origin master
```

```
fatal: unable to access 'https://github.com/yourName/Demo.git': error setting certificate verify locations:
  CAfile: G:/Program Files/Git/mingw64/ssl/certs/ca-bundle.crt
  CApath: none
```

**分析：**ca-bundle.crt 文件是证书文件。根据提示 CApath：none 没有该文件，所以无法访问远程仓库

**解决：**修改为正确路径 或者 将证书验证设置 false

```
git config --system http.sslcainfo E:/Program Files/Git/mingw64/ssl/certs/ca-bundle.crt

git config --system http.sslverify false
```

**Q2.git pull origin master 出现如下提示：**

```
fatal: refusing to merge unrelated histories
```

**解决：**如下操作即可解决

```
git pull origin master --allow-unrelated-histories
```

**Q3.每次 git push origin master 时都需要输入用户名和密码：**

因为配置的时候使用的是 https 协议，所以每次都需要输入

```
git remote -v  查看远程连接

git remote rm origin  删除远程连接

git remote add origin git@github.com:yourName/repositoryname.git
```

**Q4: git 报错$ git push -u origin master ERROR: Repository not found. fatal: Could not read from remote repository**

```
git remote set-url origin https://github.com/lhb738441242/Test.git
```