

Git

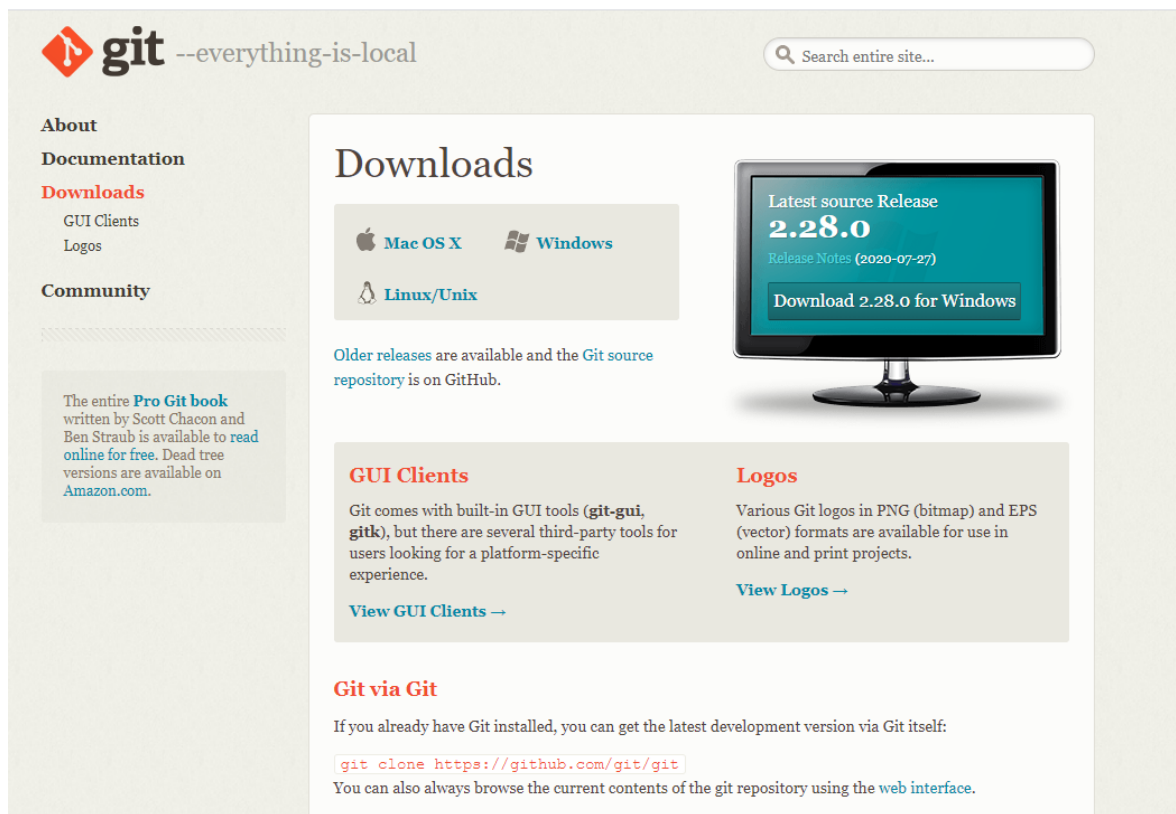
Git是一种分布式版本控制系统。

Git能够为我们解决版本控制方面的大多数问题，利用Git

- 我们可以为每一次变更提交版本更新并且备注更新的内容；
- 我们可以在项目的各个历史版本之间自如切换；
- 我们可以一目了然的比较出两个版本之间的差异；
- 我们可以从当前的修改中撤销一些操作；
- 我们可以自如的创建分支、合并分支；
- 我们可以和多人协作开发；
- 我们可以采取自由多样的开发模式。

初始化Git

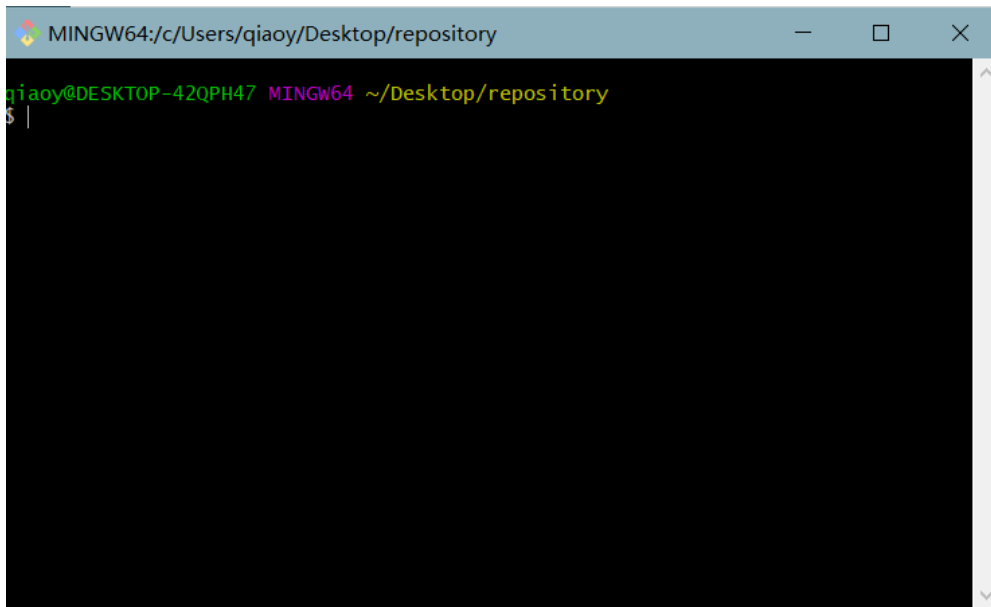
一、安装Git客户端



一路下一步下一步既可。

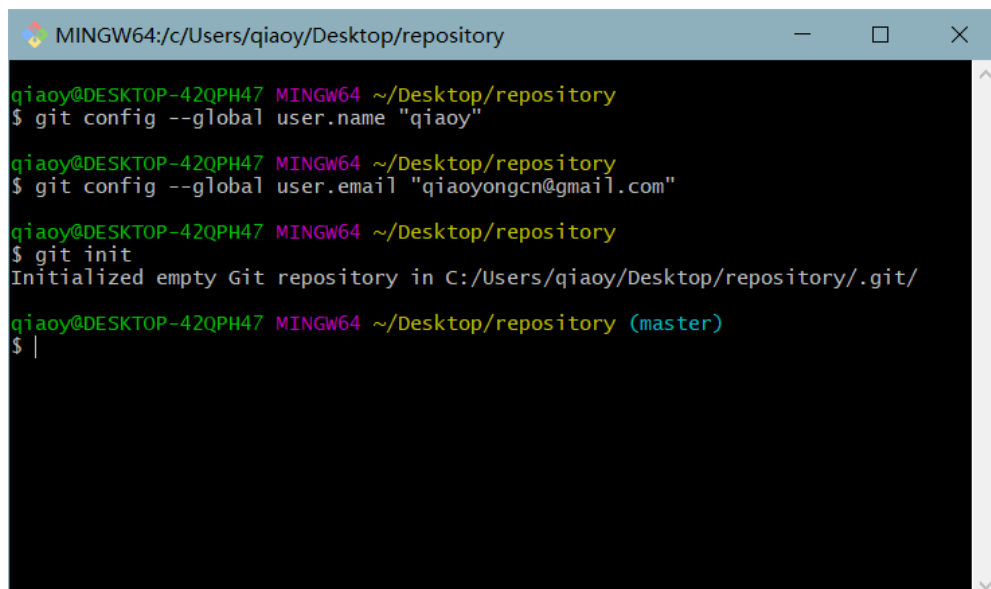
二、配置Git

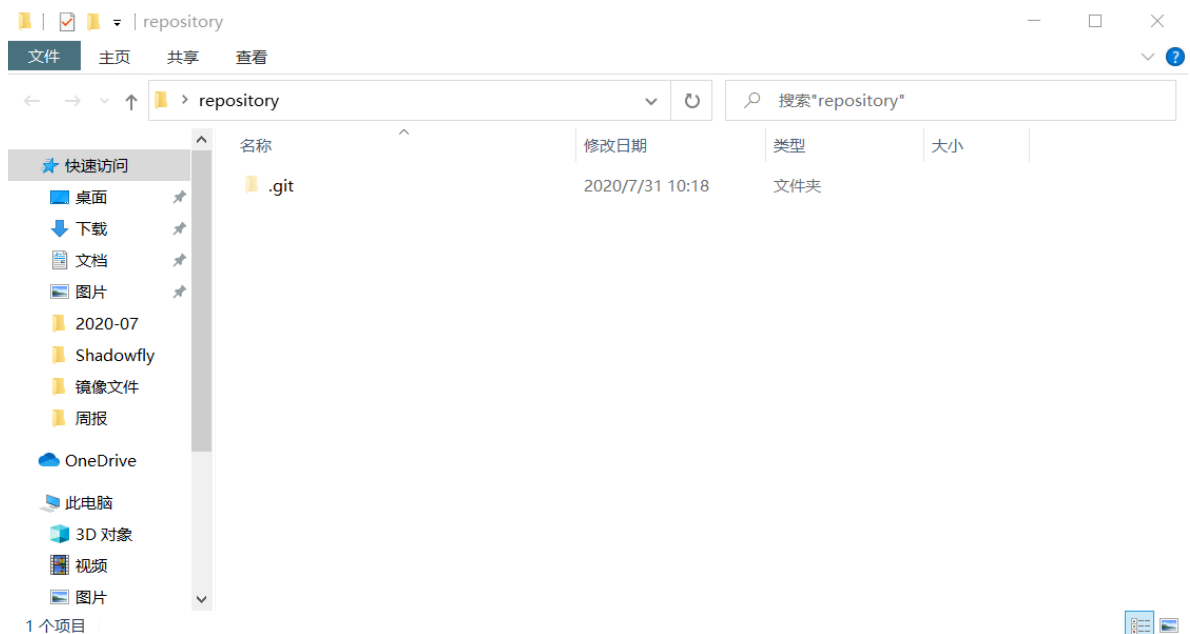
1、在本地找一块地方存放本地仓库，右键Git Bash进入git命令行。

A terminal window titled 'MINGW64:/c/Users/qiaoy/Desktop/repository'. The prompt is 'qiaoy@DESKTOP-42QPH47 MINGW64 ~/Desktop/repository' and the cursor is on a new line after a '\$'.

执行以下代码，生成.git文件夹。表示本地git创建成功。

```
git config --global user.name "qiaoy"  
git config --global user.email "qiaoyongcn@gmail.com"  
git init //项目根目录下创建一个.git子目录，用来保存版本信息。
```

A terminal window titled 'MINGW64:/c/Users/qiaoy/Desktop/repository' showing the execution of three git commands. The first command 'git config --global user.name "qiaoy"' is executed. The second command 'git config --global user.email "qiaoyongcn@gmail.com"' is executed. The third command 'git init' is executed, resulting in the output 'Initialized empty Git repository in C:/Users/qiaoy/Desktop/repository/.git/'. The prompt then changes to 'qiaoy@DESKTOP-42QPH47 MINGW64 ~/Desktop/repository (master)'.



2、配置ssh key

输入如下命令，然后一路回车，直到出现randomart image 既可

```
ssh-keygen -t rsa -C "qiaoyongcn@gmail.com"
```

```
MINGW64/c:/Users/yang/Desktop/hello
yang@DESKTOP-CB9CPP6 MINGW64 ~/Desktop/hello (master)
$ git config --global user.name "littionishir"
yang@DESKTOP-CB9CPP6 MINGW64 ~/Desktop/hello (master)
$ git config --global user.email "littionishir@gmail.com"
yang@DESKTOP-CB9CPP6 MINGW64 ~/Desktop/hello (master)
$ git init
Reinitialized existing Git repository in C:/Users/yang/Desktop/hello/.git/
yang@DESKTOP-CB9CPP6 MINGW64 ~/Desktop/hello (master)
$ ssh-keygen -t rsa -C "littionishir@gmail.com"
Generating public/private rsa key pair.
Enter file in which to save the key (/c:/Users/yang/.ssh/id_rsa):
Created directory /c:/Users/yang/.ssh/.
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /c:/Users/yang/.ssh/id_rsa.
Your public key has been saved in /c:/Users/yang/.ssh/id_rsa.pub.
The key fingerprint is:
SHA256:FMeJxLh5n632WqEFVj205K+n3Zs+236EFlyAqdMEkA8 littionishir@gmail.com
The key's randomart image is:
[SHA256]
+-----[RSA 2048]-----
  o="TB=O O..
  ..6m..v .
  +-----+-----+
  +...+ . O
  oSr . . .
  ++.. . O
  . . O. . O
  . . +
  . +O.
  +-----[SHA256]-----
yang@DESKTOP-CB9CPP6 MINGW64 ~/Desktop/hello (master)
$
```

cat 一下 把key 复制下来

```
cat /c:/Users/qiaoy/.ssh/id_rsa.pub
```

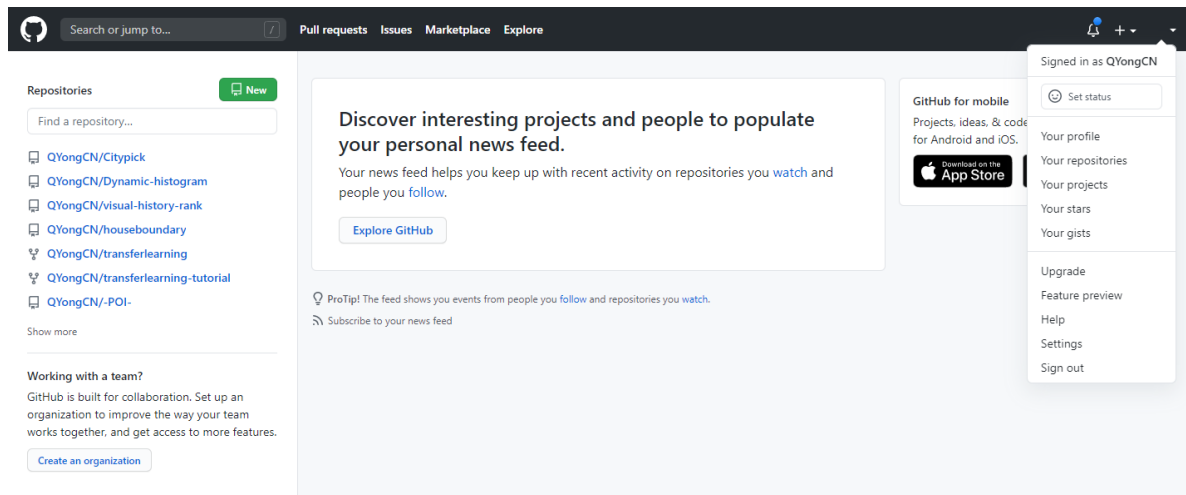
```
MINGW64/c/Users/qiaoy/Desktop/repository
$ git init
Initialized empty Git repository in C:/Users/qiaoy/Desktop/repository/.git/

qiaoy@DESKTOP-42QPH47 MINGW64 ~/Desktop/repository (master)
$ ssh-keygen -t rsa -C "qiaoyongcn@gmail.com"
Generating public/private rsa key pair.
Enter file in which to save the key (/c/Users/qiaoy/.ssh/id_rsa):
/c/Users/qiaoy/.ssh/id_rsa already exists.
Overwrite (y/n)?

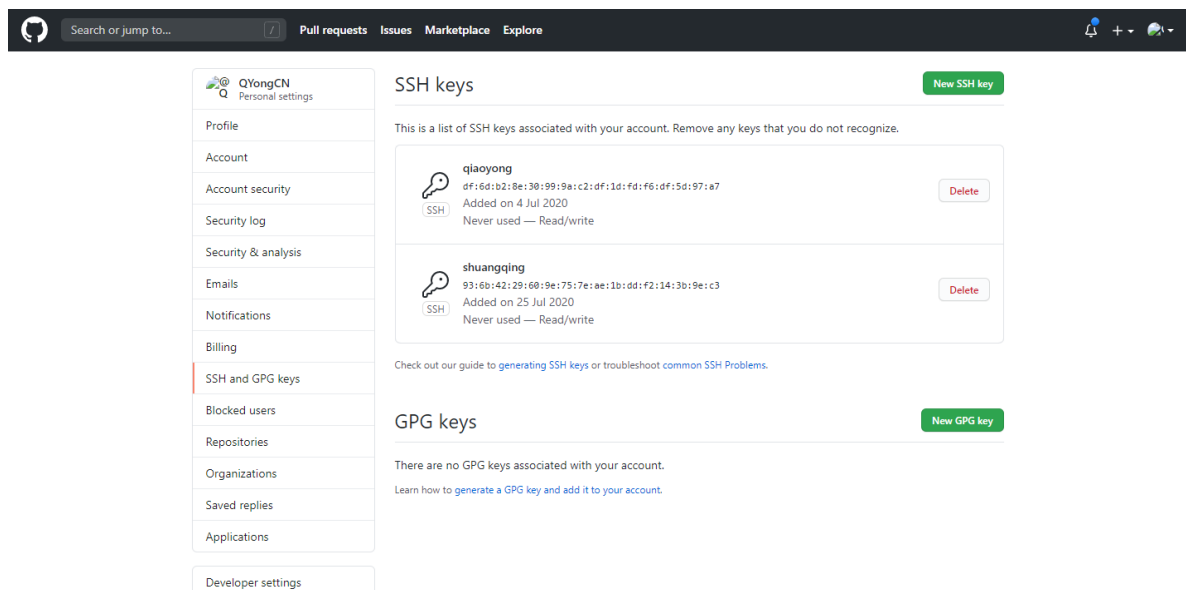
qiaoy@DESKTOP-42QPH47 MINGW64 ~/Desktop/repository (master)
$ cat /c/Users/qiaoy/.ssh/id_rsa.pub
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQGCepelkI9tczmGgAItBb4GEoCd3VMFzEyOktyKyak1
VJo2BcJ0t6rRTOakyPe4XUZ7v2qTndm/aDbwSbU6WTEmzIM1m8+kFeduCTI04drZTzWbXCLMJLRy7PP
wksBt95X5jAvKN06WrO/UqOXFh8I1asG9rQpWBYI3xr2Z00VgjID1d5zXRQP6v1ejZvq3rf+HHL13v2
8iEx12fD/6uuq6EVrmkN2tbbMwaePqOdW9m9F00m/skcEh+XC1Xoww2yYuFM+IJKV8RujDRnSTazZ3k
dadXvb2Eksg7w3CEPunWoUEk7VJGT/FKgLttfzPaKHIMySb50FF1mqS0nj1rG3DRFcW3kHouK1rMaS
QtqUM+jb0J0ruo0YD7b4DTm0CgwWm2RHW1OMPc/gPQJGGdTr8t2DhEYVmg4Cf+9QcJ6W+6zks36yDsH
/S1Iwwk1n1RY6kTclbHx1edtd+eN/i+9obm/YyOw7cZ4JtOzQZjd4UVhpIoPrceuMx/OP9dBqRKac=
qiaoyongcn@gmail.com

qiaoy@DESKTOP-42QPH47 MINGW64 ~/Desktop/repository (master)
$ |
```

打开github,选择Account Settings



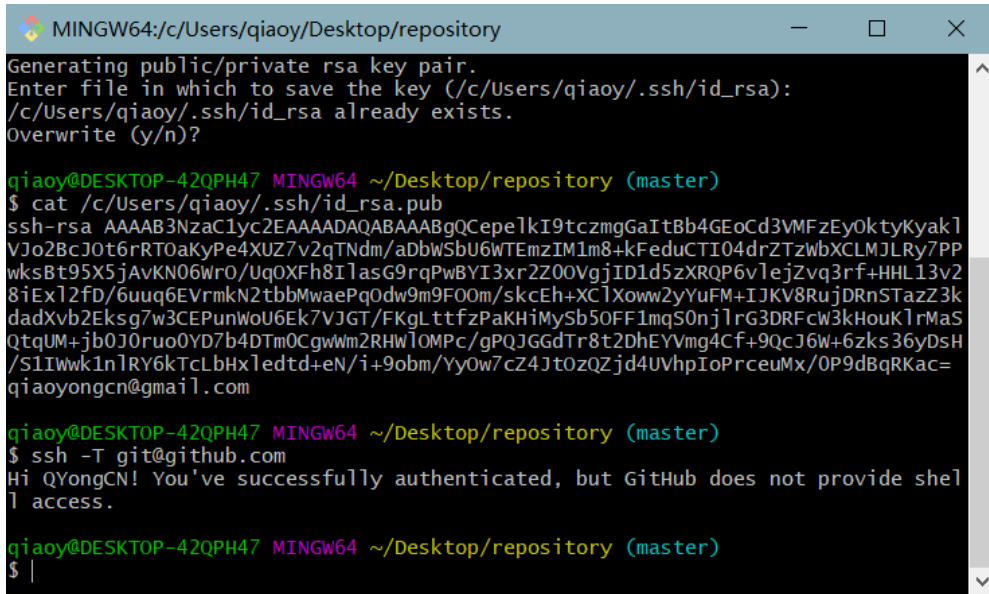
左边选择SSH and GPG Keys,点击New SSH, key title不重要 将你复制的key粘贴进来 Add SSH Key既可。



验证是否成功

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

回车就会看到: You've successfully authenticated, but GitHub does not provide shell access .这就表示已成功连上github.

A terminal window titled 'MINGW64:/c/Users/qiaoy/Desktop/repository'. The prompt is 'qiaoy@DESKTOP-42QPH47 MINGW64 ~/Desktop/repository (master)'. The user runs '\$ cat /c/Users/qiaoy/.ssh/id_rsa.pub', which displays a long SSH public key. Then, the user runs '\$ ssh -T git@github.com', and the terminal shows the output: 'Hi QYongCN! You've successfully authenticated, but GitHub does not provide shell access.' The prompt returns to '\$ |'.

代码上传到GitHub

一、创建项目

- 1.点击+号->new repository 填写Repository的名字 填写Repository的描述 (Initialize this repository with a README)可选
- 2.创建完成后点击clone or download, 复制Repository的地址

Create a new repository


A repository contains all project files, including the revision history. Already have a project repository elsewhere? [Import a repository.](#)

Repository template

Start your repository with a template repository's contents.

No template ▾

Owner *

 QYongCN ▾

Repository name *

/

Great repository names are short and memorable. Need inspiration? How about **cautious-memory**?

Description (optional)

☒  **Public**

Anyone on the internet can see this repository. You choose who can commit.

☐  **Private**

You choose who can see and commit to this repository.

Skip this step if you're importing an existing repository.

☐ **Initialize this repository with a README**

This will let you immediately clone the repository to your computer.

Add .gitignore: **None** ▾

Add a license: **None** ▾



Create repository

二、本地初始化一个项目

1.git 的基础配置，作用是告诉 git 你是谁

```
git config --global user.name "qiaoy"  
git config --global user.email "qiaoyongcn@gmail.com"
```

2.在你的需要初始化版本库的文件夹中执行

Clone with HTTPS 

[Use SSH](#)

Use Git or checkout with SVN using the web URL.



Open with GitHub Desktop



Download ZIP

```
git init  
git remote add origin git@github.com:QYongCN/Citypick.git
```

如果你想克隆一个项目，只需要执行

```
git clone git@github.com:QYongCN/Citypick.git
```

3、完成第一次提交

1.进入你已经初始化好的或者克隆项目的目录,然后执行

```
git pull origin master  
git add .
```

2.若出现该warning: LF will be replaced by CRLF in xxx文件(解决办法如下代码)

```
git config --global core.autocrlf false //禁用自动转换
```

3.提交信息

```
git commit -m "Initial commit"
```

4.正式上传

```
git push origin master
```

更新代码到GitHub

添加

```
git add 文件名
```

提交

```
git commit -m "update Readme.md"
```

推送

```
git push origin master
```

强制推送

```
git push -u origin master -f
```

回滚代码

查找历史版本

```
git log
```

```
MINGW64:/e/repository/Citypick

乔勇@DESKTOP-4UJ4CH8 MINGW64 /e/repository/Citypick (master)
$ git log
commit 41f162d3fa04ce9a7cd8a87da6e9a756da81faef (HEAD -> master, origin/master)
Author: qiaoyongcn <qiaoyongcn@gmail.com>
Date: Thu Jul 30 11:24:21 2020 +0800

    将tip类名和id改为cityChooseTip

commit 4c25bca4b2abca1d70229b5aa8b1127b3970371e
Author: qiaoyongcn <qiaoyongcn@gmail.com>
Date: Thu Jul 30 10:28:37 2020 +0800

    修改提示框位置

commit 151d93180c039853d9ecb69d9e861b86b0bcb707
Author: qiaoyongcn <qiaoyongcn@gmail.com>
Date: Thu Jul 30 09:56:27 2020 +0800

    修复了一些Bug

commit d0f4a6daF0fd38aa8ecF7e83d0F6Fa2613191cd2
Author: qiaoyongcn <qiaoyongcn@gmail.com>
Date: Thu Jul 30 09:04:55 2020 +0800

    解决了控件闪退的问题

commit 258f3bd25dc0650553a75fea088e3a6615c68067
Author: qiaoyongcn <qiaoyongcn@gmail.com>
Date: Thu Jul 30 08:13:02 2020 +0800

    修复了一些Bug

commit 2523198b076a85c60ed0caeee7a508875846df04
Author: qiaoyongcn <qiaoyongcn@gmail.com>
Date: Wed Jul 29 21:06:01 2020 +0800
```

恢复到历史版本

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

把修改推到远程服务器

```
git push -f -u origin master
```