Git and Github

写在前面:

作为一个非科班选手，为了使得自己看起来比较的专业，学会使用github是必不可少的了，此外由于有多台电脑，每台电脑之间的文件同步也十分的头疼，于是学会github和git势在必行

如何注册一个github和建立github仓库此处不多赘述，和普通的网站注册并无太多不同，也有很多教程

美化Git的界面：

如何链接github 和git：

铺垫工作在知乎这篇文章中有十分详细的介绍，但是在时间过程中会出现一点问题，在clone和push之前的步骤都是没有问题的。

https://www.zhihu.com/people/wu-ming-shi-lue-lue-lue

步骤:

新建文件夹和仓库

git init

git add

git commit -m "XXX"

git remote add origin ssh://git@github.com/zhouyangze/html.git

然后即可push

在push 和 clone 会遇到的一些问题：

关于clone的时候报错显示无法链接的时候，把http改为git即可解决

```
22365@LAPTOP-L135F75J MINGW64 ~/Desktop/Blog/CSS (master)
$ git clone http://github.com/eriklindernoren/PyTorch-GAN.git
Cloning into 'PyTorch-GAN'...
fatal: unable to access 'http://github.com/eriklindernoren/PyTorch-GAN.git/': Failed to
connect to 127.0.0.1 port 1087: Connection refused

22365@LAPTOP-L135F75J MINGW64 ~/Desktop/Blog/CSS (master)
$ git clone git://github.com/eriklindernoren/PyTorch-GAN.git
Cloning into 'PyTorch-GAN'...
remote: Enumerating objects: 1283, done.
Receiving objects:  15% (202/1283), 1.32 MiB | 19.00 KiB/s
```

当 git push origin branch_name时遇到报错如下：

```
22365@LAPTOP-L135F75J MINGW64 ~/Desktop/Blog (master)
$ git push origin master
fatal: unable to access 'https://github.com/zhouyangze/html.git/': Failed to connect to
127.0.0.1 port 1087: Connection refused
```

解决方案为:

输入**git remote –v**如果没有如何的反馈说明

```
22365@LAPTOP-L135F75J MINGW64 ~/Desktop/Blog (master)
$ git remote -v
```

说明与上游已断开链接，无法拉取代码，则需要重新remote链接

```
22365@LAPTOP-L135F75J MINGW64 ~/Desktop/Blog (master)
$ git remote add origin ssh://git@github.com/zhouyangze/html.git

22365@LAPTOP-L135F75J MINGW64 ~/Desktop/Blog (master)
$ git remote -v
origin  ssh://git@github.com/zhouyangze/html.git (fetch)
origin  ssh://git@github.com/zhouyangze/html.git (push)
```

链接之后即可push:

```
22365@LAPTOP-L135F75J MINGW64 ~/Desktop/Blog (master)
$ git push origin master
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 16 threads
Compressing objects: 100% (4/4), done.
Writing objects: 100% (5/5), 1.53 KiB | 521.00 KiB/s, done.
Total 5 (delta 0), reused 0 (delta 0), pack-reused 0
To ssh://github.com/zhouyangze/html.git
 * [new branch]      master -> master
```

但是可能会出现以下的报错，解决办法如下：

```
→  AI for Science (master) git pull --rebase origin master
warning: no common commits
remote: Enumerating objects: 11, done.
remote: Counting objects: 100% (11/11), done.
remote: Compressing objects: 100% (10/10), done.
remote: Total 11 (delta 2), reused 9 (delta 0), pack-reused 0
Unpacking objects: 100% (11/11), 3.04 KiB | 28.00 KiB/s, done.
From ssh://github.com/zhouyangze/html
 * branch            master     -> FETCH_HEAD
 * [new branch]      master     -> origin/master
Successfully rebased and updated refs/heads/master.

→  AI for Science (master) git push -u origin master
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 12 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 1.89 MiB | 1.02 MiB/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 ssh://github.com/zhouyangze/html.git
   4d993de..958d795  master -> master
Branch 'master' set up to track remote branch 'master' from 'origin'.
```

但是git 执行git pull –rebase报错误如下：

error: Cannot pull with rebase: You have unstaged changes.
error: Additionally, your index contains uncommitted changes.

原因：如果有未提交的更改，是不能git pull的

解决：
先执行git stash，再执行git pull –rebase，最后再执行git stash pop，之后即可push。其中git stash可用来暂存当前正在进行的工作，git stash pop从Git栈中读取最近一次保存的内容