

1 配置公私钥

1 创建gitee和github的ssh key

```
cd ~/.ssh
ssh-keygen -t rsa -C "xxxxx@xxxxx.com"
```

替换正确的邮箱，按enter

创建gitee key时输入id_rsa.gitee，
创建github的ssh key时输入id_rsa.github

2 把public key复制到gitee或github

```
cat id_rsa.gitee.pub
查看公钥，gitee输入
id_rsa.gitee.pub，github输入
id_rsa.github.pub
将第二行到结尾的内容复制到gitee
或github的ssh中保存
```

3 创建配置解决ssh冲突

在.ssh文件夹中创建config文件，添加以下内容以区分两个ssh key

```
# gitee
Host gitee.com
HostName gitee.com
PreferredAuthentications publickey
IdentityFile ~/.ssh/id_rsa.gitee

# github
Host github.com
HostName github.com
PreferredAuthentications publickey
IdentityFile ~/.ssh/id_rsa.github
```

4 测试连接

```
ssh -T git@gitee.com      Welcome to Gitee.com, yourname!

ssh -T git@github.com     Hi yourname! You've successfully authenticated, but GitHub does not
                           provide shell access.
```

2 在github 上创建个人仓库

git remote add github ssh协议

git fetch github（remote 别名）branch 拉取远端分支

远端如果有提交 先fetch 再merge
pull 集成了fetch 和 merge 事件

rebase 和 pull 都行 rebase会导致本地的commit的id号发生变化
如团队要求主干线性提交就用rebase

什么叫 non-fast-forward 不是fast-forward 就是没有共同的祖先

git branch -v 查看本地所有分支

git branch -av 查看本地和远端所有分支

git push github --all 把所有的本地分支推送到远端

git merge -h 提示 如何让两个不相干的历史树合在一起
git merge --allow-unrelated-histories github/master

```
master 03a5c53 Add the first git command with config
* suling 5bf3fd1 Add test
temp 5bf3fd1 Add test
sulingdeMacBook-Pro:git_learning suling$ git branch -va
master      03a5c53 Add the first git command with config
* suling    5bf3fd1 Add test
temp       5bf3fd1 Add test
remotes/github/master  bc89bd3 Initial commit
remotes/github/suling  5bf3fd1 Add test
remotes/github/temp    5bf3fd1 Add test
remotes/zhiheng/suling 5bf3fd1 Add test
sulingdeMacBook-Pro:git_learning suling$ git checkout master
Switched to branch 'master'
sulingdeMacBook-Pro:git_learning suling$ git merge github/master
fatal: refusing to merge unrelated histories
sulingdeMacBook-Pro:git_learning suling$
```

git merge --no-ff

所谓 --no-ff参数的意思是——no fast forward 的意思。也就是说，合并的方法是不要把这个分支的提交以前置合并的方式，而是留下一个merge的提交
建议：只有feature合并到developer分支时，使用--no-ff参数，其他的合并都不使用--no-ff参数来做合并

4 不同人修改了不同文件如何处理

```
sulingdeMBP:101-GitRunner suling$ git clone git@github.com:git201901/git_learning.git
fatal: destination path 'git_learning' already exists and is not an empty directory.
sulingdeMBP:101-GitRunner suling$ ls -al
total 0
drwxr-xr-x  6 suling staff   204 12  3 15:05 .
drwxr-xr-x+ 89 suling staff  3026 12  4 11:40 ..
drwxr-xr-x  8 suling staff   272 11 25 21:18 0-material
drwxr-xr-x  3 suling staff   102 11 27 14:51 1-refer
drwxr-xr-x 12 suling staff   408 12  3 17:01 2-backup
drwxr-xr-x 11 suling staff   374 12  4 11:39 git_learning
sulingdeMBP:101-GitRunner suling$ git clone git@github.com:git201901/git_learning.git  git_learning_02
Cloning into 'git_learning_02'...
```

git config --add --local user.name 'xxx'
git config --add --local user.email 'xxx@.com'

进入窗口 移除多余的名字

```
sulingdeMBP:git_learning_02 suling$ git config --local -l
core.repositoryformatversion=0
core.filemode=true
core.bare=false
core.logallrefupdates=true
core.ignorecase=true
core.precomposeunicode=true
remote.origin.url=git@github.com:git201901/git_learning.git
remote.origin.fetch=refs/heads/*:refs/remotes/origin/*
branch.master.remote=origin
branch.master.merge=refs/heads/master
user.name=git2019
user.name=git2019@163.com
user.email=git2019@163.com
sulingdeMBP:git_learning_02 suling$ vi .git/config
```

创建新分支关联远端分支

```
sulingdeMBP:git_learning_02 suling$ git branch -av
* master                8b5ca79 Merge remote-tracking branch 'github/master'
  remotes/origin/HEAD    -> origin/master
  remotes/origin/feature/add_git_commands 8b5ca79 Merge remote-tracking branch 'github/master'
  remotes/origin/master  8b5ca79 Merge remote-tracking branch 'github/master'
  remotes/origin/suling  5bf3fd1 Add test
  remotes/origin/temp    5bf3fd1 Add test
sulingdeMBP:git_learning_02 suling$ git checkout -b feature/add_git_commands origin/feature/add_git_commands
```

```
sulingdeMBP:git_learning_02 suling$ git checkout -b feature/add_git_commands origin/feature/add_git_commands
Branch 'feature/add_git_commands' set up to track remote branch 'feature/add_git_commands' from 'origin'.
sulingdeMBP:git_learning_02 suling$
```

进去命令行wq!

```
sulingdeMBP:git_learning suling$ git push github
To github.com:git201901/git_learning.git
 ! [rejected]        feature/add_git_commands -> feature/add_git_commands (fetch first)
error: failed to push some refs to 'git@github.com:git201901/git_learning.git'
hint: Updates were rejected because the remote contains work that you do
hint: not have locally. This is usually caused by another repository pushing
hint: to the same ref. You may want to first integrate the remote changes
hint: (e.g., 'git pull ...') before pushing again.
hint: See the 'Note about fast-forwards' in 'git push --help' for details.
sulingdeMBP:git_learning suling$ git fetch github
remote: Enumerating objects: 5, done.
remote: Counting objects: 100% (5/5), done.
remote: Compressing objects: 100% (1/1), done.
remote: Total 3 (delta 2), reused 3 (delta 2), pack-reused 0
Unpacking objects: 100% (3/3), done.
From github.com:git201901/git_learning
 a47683d..e0f99ee feature/add_git_commands -> github/feature/add_git_commands
sulingdeMBP:git_learning suling$ git branch -av
* master                8b5ca79 Merge remote-tracking branch 'github/master'
  suling                5bf3fd1 Add test
  temp                 5bf3fd1 Add test
  remotes/github/feature/add_git_commands e0f99ee Fix readme
  remotes/github/master 8b5ca79 Merge remote-tracking branch 'github/master'
  remotes/github/suling 5bf3fd1 Add test
  remotes/github/temp   5bf3fd1 Add test
  remotes/origin/master 8b5ca79 Merge remote-tracking branch 'github/master'
sulingdeMBP:git_learning suling$ git merge github/feature/add_git_commands
```

git merge origin/feature/add_git_commands <==> git merge c7320e
进入命令行wq!

```
sulingdeMacBook-Pro:git_learning_02 suling$ git push
To github.com:git201901/git_learning.git
 ! [rejected]        feature/add_git_commands -> feature/add_git_commands (fetch first)
error: failed to push some refs to 'git@github.com:git201901/git_learning.git'
hint: Updates were rejected because the remote contains work that you do
hint: not have locally. This is usually caused by another repository pushing
hint: to the same ref. You may want to first integrate the remote changes
hint: (e.g., 'git pull ...') before pushing again.
hint: See the 'Note about fast-forwards' in 'git push --help' for details.
sulingdeMacBook-Pro:git_learning_02 suling$ git fetch
remote: Enumerating objects: 5, done.
remote: Counting objects: 100% (5/5), done.
remote: Compressing objects: 100% (1/1), done.
remote: Total 3 (delta 2), reused 3 (delta 2), pack-reused 0
Unpacking objects: 100% (3/3), done.
From github.com:git201901/git_learning
 c012a80..c37320e feature/add_git_commands -> origin/feature/add_git_commands
sulingdeMacBook-Pro:git_learning_02 suling$ git branch -av
* feature/add_git_commands 74b9804 [ahead 1, behind 1] Add non fast-forward
  master                  8b5ca79 Merge remote-tracking branch 'github/master'
  remotes/origin/HEAD     -> origin/master
  remotes/origin/feature/add_git_commands c37320e Add commit command
  remotes/origin/master   8b5ca79 Merge remote-tracking branch 'github/master'
  remotes/origin/suling  5bf3fd1 Add test
  remotes/origin/temp     5bf3fd1 Add test
sulingdeMacBook-Pro:git_learning_02 suling$ git merge origin/feature/add_git_commands
```

5 不同人修改了同文件的不同区域如何处理？