

By小马哥

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Git常用命令超级详细（全网最详细）

1.新建代码库

1.1在当前目录新建一个 Git 代码库

\$ git init

```
@224-Win7-B081 MINGW64 ~/Desktop/DevOps
$ git init
Initialized empty Git repository in C:/Users/mazhikai01/Desktop/DevOps/.git/
@224-Win7-B081 MINGW64 ~/Desktop/DevOps (master)
```

1.2新建一个目录，将其初始化为 Git 代码库

\$ git init [project-name]

```
@224-Win7- MINGW64 ~/Desktop/DevOps
$ ls
DevOps/
@224-Win7- MINGW64 ~/Desktop/DevOps
$ git init DevOps
Initialized empty Git repository in C:/Users/mazhikai01/Desktop/DevOps/DevOps/.git/
@224-Win7- MINGW64 ~/Desktop/DevOps
$ ls
DevOps/
@224-Win7- MINGW64 ~/Desktop/DevOps
$ cd DevOps
@224-Win7- MINGW64 ~/Desktop/DevOps/DevOps (master)
```

1.3下载一个项目和它的整个代码历史

\$ git clone [url]

```
MINGW64 ~/Desktop/DevOps
$ git clone http://.../devops/devops.git
Cloning into 'devops'...
warning: ----- SECURITY WARNING -----
warning: | TLS certificate verification has been disabled! |
warning: -----
warning: HTTPS connections may not be secure. See https://aka.ms/gcmcore-tlsverify for more
information.
warning: ----- SECURITY WARNING -----
warning: | TLS certificate verification has been disabled! |
warning: -----
warning: HTTPS connections may not be secure. See https://aka.ms/gcmcore-tlsverify for more
information.
warning: You appear to have cloned an empty repository.
@224-Win7- MINGW64 ~/Desktop/DevOps
$ ls
devops/
```

2.配置

Git 的设置文件为.gitconfig，它可以在用户主目录下（全局配置），也可以在项目目录下（项目配置）。

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2.1 设置提交代码时的用户信息

```
$ git config [--global] user.name "[name]"  
$ git config [--global] user.email "[email address]"
```

```
MINGW64 ~/Desktop/DevOps/devops (master)  
$ git config --global user.name "zhangsan"  
MINGW64 ~/Desktop/DevOps/devops (master)  
$ git config --global user.email "zhangsan@263.com"
```

2.2 编辑 Git 配置文件

```
$ vim ~/.gitconfig
```

```
MINGW64: /c/Users/mazhikai01/Desktop/DevOps/devops  
[user]^M  
    name = zhangsan  
    email = zhangsan@263.com  
    ui = true^M  
    status = auto^M  
    branch = auto^M  
    interactive = auto^M  
    diff = auto^M  
[credential]^M  
    helper = manager^M
```

2.3 显示当前的 Git 配置

```
$ git config --list
```

```
MINGW64 ~/Desktop/DevOps/devops (master)  
$ git config --list  
diff.astextplain.textconv=astextplain  
http.sslbackend=openssl  
http.sslcainfo=D:/Git/mingw64/ssl/certs/ca-bundle.crt  
core.autocrlf=true  
core.fscache=true  
core.symlinks=false  
pull.rebase=false  
credential.helper=manager-core  
credential.https://dev.azure.com.usehttppath=true  
init.defaultbranch=master  
user.name=zhangsan  
user.email=zhangsan@263.com  
user.ui=true
```

2.4 显示当前的 Git 配置

```
$ cat ~/.gitconfig
```

```
$ cat ~/.gitconfig  
[user]  
    name = zhangsan  
    email = zhangsan@263.com  
    ui = true  
    status = auto  
    branch = auto  
    interactive = auto  
    diff = auto  
[credential]  
    helper = manager
```

3. 增加/删除文件

3.1 添加指定文件到暂存区

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--MirZhang

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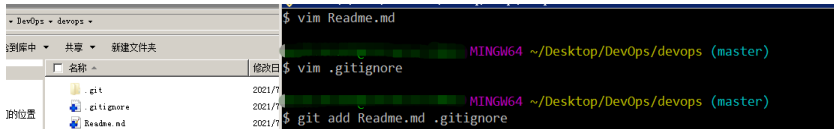
评论排行榜

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推荐排行榜

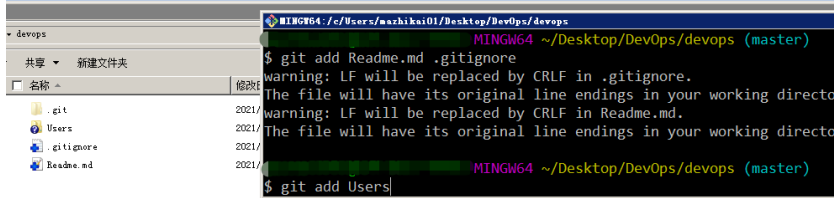
- [1. Git常用命令超级详细（全网最详细）\(2\)](#)

```
$ git add [file1] [file2] ...
```



3.2 添加指定目录到暂存区，包括子目录

```
$ git add [dir]
```



3.3 添加当前目录的所有文件到暂存区

```
$ git add .
```

3.4 删除工作区文件，并且将这次删除放入暂存区

```
$ git rm 1.txt 2.txt
error: the following files have changes staged in the index:
    1.txt
    2.txt
(use --cached to keep the file, or -f to force removal)
```

3.4.1 直接删除文件

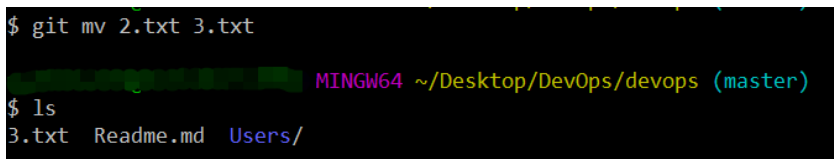
```
$ git rm -fr 1.txt
```

3.4.2 停止追踪指定文件，但该文件会保留在工作区

```
$ git rm --cached [file]
$ git rm --cached 1.txt 2.txt
rm '1.txt'
rm '2.txt'
```

3.5 改名文件，并且将这个改名放入暂存区

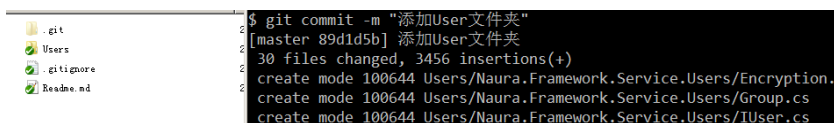
```
$ git mv [file-original] [file-renamed]
```



4. 代码提交

4.1 提交暂存区到仓库区

```
$ git commit -m [message]
```



4.2 提交暂存区的指定文件到仓库区

```
$ git commit [file1] [file2] ... -m [message]
```

```
MINGW64 ~/Desktop/DevOps/devops (master)
$ git commit Readme.md -m "添加Readme.md文件"
warning: LF will be replaced by CRLF in Readme.md.
The file will have its original line endings in your working directory
[master (root-commit) e76012d] 添加Readme.md文件
1 file changed, 1 insertion(+)
create mode 100644 Readme.md
```

4.3提交工作区自上次 commit 之后的变化，直接到仓库

```
$ git commit -a
```

4.4提交时显示所有 diff 信息

```
$ git commit -v
```

```
$ git commit -v -m "修改了ReadMe.md文件"
[master 5b190a9] 修改了ReadMe.md文件
1 file changed, 1 insertion(+)
```

4.5使用一次新的 commit，替代上一次提交如果代码没有任何新变化，则用来改写上一次 commit 的提交信息

```
$ git commit --amend -m [message]
```

5.分支

5.1列出所有本地分支

```
$ git branch
```

```
$ git branch
DevOps_Dev
DevOps_RC
DevOps_Release
* master
```

*表示当前分支

5.2列出所有远程分支

```
$ git branch -r
```

```
$ git branch -r
origin/master
```

5.3列出所有本地分支和远程分支

```
$ git branch -a
```

```
$ git branch -a
DevOps_Dev
DevOps_RC
DevOps_Release
* master
remotes/origin/master
```

5.4新建一个分支，但依然停留在当前分支

```
$ git branch [branch-name]
```

```
MINGW64 ~/Desktop/DevOps/devops (master)
$ git branch DevOps_Dev
MINGW64 ~/Desktop/DevOps/devops (master)
$ git branch DevOps_Release
MINGW64 ~/Desktop/DevOps/devops (master)
$ git branch DevOps_RC
```

5.5新建一个分支，并切换到该分支

```
$ git checkout -b [branch]
```

```
MINGW64 ~/Desktop/DevOps/devops (master)
$ git checkout -b DevOps_RC
Switched to a new branch 'DevOps_RC'
MINGW64 ~/Desktop/DevOps/devops (DevOps_RC)
```

5.6新建一个分支，指向指定 commit

5.6.1查看提交的日志

```
$ git log
```

```
commit 2cb44e585aab4d1b2370a3e42dc6d4070fe217dc (HEAD -> DevOps_RC, orig
Author: zhangsan <zhangsan@263.com>
Date: Sat Jul 10 11:03:12 2021 +0800
    修改了ReadMe.md文件，添加了一行说明

commit 89d1d5b198a77deb9096e11b02aec7187221f384
Author: zhangsan <zhangsan@263.com>
Date: Sat Jul 10 10:59:09 2021 +0800
...skipping...
commit 2cb44e585aab4d1b2370a3e42dc6d4070fe217dc (HEAD -> DevOps_RC, orig
Author: zhangsan <zhangsan@263.com>
Date: Sat Jul 10 11:03:12 2021 +0800
    修改了ReadMe.md文件，添加了一行说明

commit 89d1d5b198a77deb9096e11b02aec7187221f384
Author: zhangsan <zhangsan@263.com>
Date: Sat Jul 10 10:59:09 2021 +0800
    添加User文件夹

commit b54962a30b090f02a39fc3c6185750cf07b068ea
Author: zhangsan <zhangsan@263.com>
Date: Sat Jul 10 10:58:30 2021 +0800
    添加忽略文件

commit e76012d77857841d344ac04893a158e75e8088fc
Author: zhangsan <zhangsan@263.com>
Date: Sat Jul 10 10:56:46 2021 +0800
    添加Readme.md文件
```

5.6.2新建一个分支，指向指定 commit ID

```
$ git branch [branch] [commit]
$ git branch DevOps_V0.3FixBug 89d1d5b198a77deb9096e11b02aec7187221f384
```

```
MINGW64 ~/Desktop/DevOps/devops (DevOps_RC)
$ git branch -a
  DevOps_Dev
* DevOps_RC
  DevOps_Release
  DevOps_V0.3FixBug
  master
remotes/origin/master
```

5.7新建一个分支，与指定的本地分支建立追踪关系

```
$ git branch --track [branch1] [branch2]
$ git branch --track DevOps_RC1 DevOps_RC
```

```
$ git branch --track DevOps_RC1 DevOps_RC
Branch 'DevOps_RC1' set up to track local branch 'DevOps_RC'.
```

5.7.1 DevOps_RC,增加一次提交

```
$ git commit -m "添加了一个2.txt文件"
[DevOps_RC b7a7725] 添加了一个2.txt文件
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 2.txt

MINGW64 ~/Desktop/DevOps/devops (DevOps_RC)
$ git branch -av
DevOps_Dev          2cb44e5 修改了ReadMe.md文件，添加了一行说明
* DevOps_RC         b7a7725 添加了一个2.txt文件
DevOps_RC1          2cb44e5 [behind 1] 修改了ReadMe.md文件，添加了一行说明
DevOps_Release      2cb44e5 修改了ReadMe.md文件，添加了一行说明
DevOps_V0.3FixBug   89d1d5b 添加User文件夹
master              2cb44e5 修改了ReadMe.md文件，添加了一行说明
remotes/origin/master 2cb44e5 修改了ReadMe.md文件，添加了一行说明
```

5.7.2 DevOps_RC,再增加一次提交

```
$ git commit -m "添加了3.txt文件"
[DevOps_RC f7ed8ad] 添加了3.txt文件
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 3.txt

MINGW64 ~/Desktop/DevOps/devops (DevOps_RC)
$ git branch -av
DevOps_Dev          2cb44e5 修改了ReadMe.md文件，添加了一行说明
* DevOps_RC         f7ed8ad 添加了3.txt文件
DevOps_RC1          2cb44e5 [behind 2] 修改了ReadMe.md文件，添加了一行说明
DevOps_Release      2cb44e5 修改了ReadMe.md文件，添加了一行说明
DevOps_V0.3FixBug   89d1d5b 添加User文件夹
master              2cb44e5 修改了ReadMe.md文件，添加了一行说明
remotes/origin/master 2cb44e5 修改了ReadMe.md文件，添加了一行说明
```

5.8切换到指定分支，并更新工作区

5.8.1切换到建立追踪的分支DevOps_RC1

```
$ git checkout [branch-name]
$ git checkout DevOps_RC1
```

```
MINGW64 ~/Desktop/DevOps/devops (DevOps_RC)
$ git branch -av
DevOps_Dev          2cb44e5 修改了ReadMe.md文件，添加了一行说明
* DevOps_RC         f7ed8ad 添加了3.txt文件
DevOps_RC1          2cb44e5 [behind 2] 修改了ReadMe.md文件，添加了一行说明
DevOps_Release      2cb44e5 修改了ReadMe.md文件，添加了一行说明
DevOps_V0.3FixBug   89d1d5b 添加User文件夹
master              2cb44e5 修改了ReadMe.md文件，添加了一行说明
remotes/origin/master 2cb44e5 修改了ReadMe.md文件，添加了一行说明

MINGW64 ~/Desktop/DevOps/devops (DevOps_RC)
$ git checkout DevOps_RC1
Switched to branch 'DevOps_RC1'
Your branch is behind 'DevOps_RC' by 2 commits, and can be fast-forwarded.
(use "git pull" to update your local branch)
```

5.8.2从建立追踪的分支拉取最新的变化

```
$ git pull
```

```
MINGW64 ~/Desktop/DevOps/devops (DevOps_RC)
$ git checkout DevOps_RC1
Switched to branch 'DevOps_RC1'
Your branch is behind 'DevOps_RC' by 2 commits, and can be fast-forwarded.
(use "git pull" to update your local branch)

MINGW64 ~/Desktop/DevOps/devops (DevOps_RC1)
$ git pull
From .
 * branch                DevOps_RC -> FETCH_HEAD
Updating 2cb44e5..f7ed8ad
Fast-forward
 2.txt | 0
 3.txt | 0
 2 files changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 2.txt
 create mode 100644 3.txt

MINGW64 ~/Desktop/DevOps/devops (DevOps_RC1)
```

5.9新建一个分支，与指定的远程分支建立追踪关系

5.9.1将本地的所有分支及信息全部推送到远程仓库

```
$ git push -u origin *:*
```

说明: origin, 查看是否配置origin; 默认克隆时, 自动建立;

```
$ git push -u origin *:*
warning: ----- SECURITY WARNING -----
warning: | TLS certificate verification has been disabled! |
warning: -----
warning: HTTPS connections may not be secure. See https://aka.ms/gcmcore-tlsverify for more info
rmation.
warning: ----- SECURITY WARNING -----
warning: | TLS certificate verification has been disabled! |
warning: -----
warning: HTTPS connections may not be secure. See https://aka.ms/gcmcore-tlsverify for more info
rmation.
Total 0 (delta 0), reused 0 (delta 0), pack-reused 0
remote:
remote: To create a merge request for DevOps_Dev, visit:
remote: http://192.168.145.88/devops/devops/-/merge_requests/new?merge_request%5Bsource_branch%5D=DevOps_Dev
```

5.9.2查看origin信息

```
$ git remote -v
origin http://192.168.145.88/devops/devops.git (fetch)
origin http://192.168.145.88/devops/devops.git (push)
```

5.9.3新建一个分支，与指定的远程分支建立追踪关系

```
$ git branch --track [branch] [remote branch]
$ git branch --track DevOps_RC2 remotes/origin/DevOps_RC1
```

```
$ git branch --track DevOps_RC2 remotes/origin/DevOps_RC1
Branch 'DevOps_RC2' set up to track remote branch 'DevOps_RC1' from 'origin'.
```

5.9.4切换到建立追踪关系的新分支DevOps_RC2

```
$ git checkout DevOps_RC2
Switched to branch 'DevOps_RC2'
Your branch is behind 'origin/DevOps_RC1' by 1 commit, and can be fast-f
(use "git pull" to update your local branch)
```

5.9.5使用 git pull 更新本地分支（会拉取建立追踪关系的分支代码）

```
$ git pull
warning: ----- SECURITY WARNING -----
warning: | TLS certificate verification has been disabled! |
warning: -----
warning: HTTPS connections may not be secure. See https://aka.ms/gcmcore
warning: ----- SECURITY WARNING -----
warning: | TLS certificate verification has been disabled! |
warning: -----
warning: HTTPS connections may not be secure. See https://aka.ms/gcmcore
Updating f7ed8ad..c11bb1a
Fast-forward
```

```
Readme.md | 1 +
1 file changed, 1 insertion(+)
```

5.10 合并指定分支到当前分支

```
$ git merge [branch]
$ git merge DevOps_V0.3FixBug
```

```
MINGW64 ~/Desktop/DevOps/devops (DevOps_RC1)
$ git merge DevOps_V0.3FixBug
Auto-merging Readme.md
CONFLICT (content): Merge conflict in Readme.md
Automatic merge failed; fix conflicts and then commit the result.
MINGW64 ~/Desktop/DevOps/devops (DevOps_RC1|MERGING)
```

提示文件存在冲突，冲突解决后再提交

5.10.1 解决合并产生的冲突

按照冲突提示，修改冲突文件 Readme.md

```
$ vim Readme.md
```

```
MINGW64 ~/Desktop/DevOps/devops (DevOps_RC1|MERGING)
$ vim Readme.md
```

5.10.2 编辑修改解决冲突

5.10.2.1 冲突提示

```
MINGW64: /c:/Users/mazhikai01/Desktop/DevOps/devops
this is my first add
<<<<<< HEAD
this is my first commit -a
this is my first --track
=====
修改了V0.3FixBug的Bug
>>>>>> DevOps_V0.3FixBug
```

5.10.2.2 冲突解决

```
this is my first add
this is my first commit -a
this is my first --track
修改了V0.3FixBug的Bug
```

5.10.2.3 查看当前状态

```
$ git status
On branch DevOps_RC1
Your branch is up to date with 'origin/DevOps_RC1'.

You have unmerged paths. #有未合并的分支
(fix conflicts and run "git commit") #修复冲突并且运行git commit
(use "git merge --abort" to abort the merge) #使用 git merge --abort终止

Unmerged paths: #未合并的分支
(use "git add <file>..." to mark resolution)
   both modified:   Readme.md

no changes added to commit (use "git add" and/or "git commit -a")
```

此处我的处理措施是，把合并结果加入当前分支

```
MINGW64 ~/Desktop/DevOps/devops (DevOps_RC1|MERGING)
$ git add .

MINGW64 ~/Desktop/DevOps/devops (DevOps_RC1|MERGING)
$ git commit -m "合并冲突已经解决"
[DevOps_RC1 f6038c0] 合并冲突已经解决

MINGW64 ~/Desktop/DevOps/devops (DevOps_RC1)
```


5.11 选择一个 commit，合并进当前分支

```
$ git cherry-pick [commit]
```

5.11.1 选择别的分支（DevOps_RC1）的一个commit

```
$ git log
```

```
MINGW64 ~/Desktop/DevOps/devops (DevOps_RC1)
$ git log
commit 900d39d30f2487897c1fc09f71c4bd41e1c0cf7a (HEAD -> DevOps_RC1)
Author: 
Date: Sat Jul 10 14:52:40 2021 +0800

    3.txt添加了一行文字
```

5.11.2 切换到另一个项目合并一个提交至此分支的分支

5.11.2.1 切换分支（DevOps_Dev）

```
$ git checkout DevOps_Dev
Switched to branch 'DevOps_Dev'
Your branch is up to date with 'origin/DevOps_Dev'.
```

5.11.2.2 将选定的commit，合并进当前分支

```
$ git cherry-pick 900d39d30f2487897c1fc09f71c4bd41e1c0cf7a
```

```
MINGW64 ~/Desktop/DevOps/devops (DevOps_Dev)
$ git cherry-pick 900d39d30f2487897c1fc09f71c4bd41e1c0cf7a
CONFLICT (modify/delete): 3.txt deleted in HEAD and modified in 900d39d (3.txt添加了一行文字). Version 900d39d (3.txt添加了一行文字) of 3.txt left in tree.
error: could not apply 900d39d... 3.txt添加了一行文字
hint: after resolving the conflicts, mark the corrected paths
hint: with 'git add <paths>' or 'git rm <paths>'
hint: and commit the result with 'git commit'
```

出现此种情况为产生冲突

5.11.2.3 查看当前状态

```
$ git status
```

```
MINGW64 ~/Desktop/DevOps/devops (DevOps_Dev|CHERRY-PICKING)
$ git status
On branch DevOps_Dev
Your branch is up to date with 'origin/DevOps_Dev'.

You are currently cherry-picking commit 900d39d.
 (fix conflicts and run "git cherry-pick --continue")
 (use "git cherry-pick --skip" to skip this patch)
 (use "git cherry-pick --abort" to cancel the cherry-pick operation)

Unmerged paths:
 (use "git add/rm <file>..." as appropriate to mark resolution)
    deleted by us:   3.txt

no changes added to commit (use "git add" and/or "git commit -a")
```

5.11.2.4 解决冲突

```
MINGW64 ~/Desktop/DevOps/devops (DevOps_Dev|CHERRY-PICKING)
$ git add .
MINGW64 ~/Desktop/DevOps/devops (DevOps_Dev|CHERRY-PICKING)
$ vim 3.txt
MINGW64 ~/Desktop/DevOps/devops (DevOps_Dev|CHERRY-PICKING)
$ git commit -m "当前分支之前存在此文件且文件为空但被删除，合并进来的文件与之前文件存在同名冲突，已确认冲突并重新做了添加"
[DevOps_Dev f1a4a70] 当前分支之前存在此文件且文件为空但被删除，合并进来的文件与之前文件存在同名冲突，已确认冲突并重新做了添加
Date: Sat Jul 10 14:52:40 2021 +0800
1 file changed, 1 insertion(+)
create mode 100644 3.txt
```

冲突解决

5.12 删除分支

```
$ git branch -d [branch-name]
```

```
$ git branch -d DevOps_RC
Deleted branch DevOps_RC (was 2cb44e5).
```

5.13 删除远程分支

5.13.1查看当前分支的详细信息

```
$ git branch -av
* DevOps_V0.3FixBug
  DevOps_Dev
  DevOps_RC
  DevOps_RC1
  DevOps_RC2
  DevOps_Release
  DevOps_V0.3FixBug
  master
remotes/origin/DevOps_Dev
remotes/origin/DevOps_RC
remotes/origin/DevOps_RC1
remotes/origin/DevOps_RC2
remotes/origin/DevOps_Release
remotes/origin/DevOps_V0.3FixBug
remotes/origin/master

f1a4a70 当前分支之前存在此文件且文件为空但被删除，合并进来的文件与之前文件存在同名冲突，已确认冲突并重新做了添加
f7ed8ad 添加了3.txt文件
900d39d 3.txt添加了一行文字
900d39d 3.txt添加了一行文字
2cb44e5 修改了ReadMe.md文件，添加了一行说明
1c6e411 修复了V0.3FixBug
2cb44e5 修改了ReadMe.md文件，添加了一行说明
f1a4a70 当前分支之前存在此文件且文件为空但被删除，合并进来的文件与之前文件存在同名冲突，已确认冲突并重新做了添加
f7ed8ad 添加了3.txt文件
900d39d 3.txt添加了一行文字
900d39d 3.txt添加了一行文字
2cb44e5 修改了ReadMe.md文件，添加了一行说明
1c6e411 修复了V0.3FixBug
2cb44e5 修改了ReadMe.md文件，添加了一行说明
```

接下来，我要删除远程的这个分支

5.13.2删除远程分支

```
$ git push origin --delete DevOps_RC2

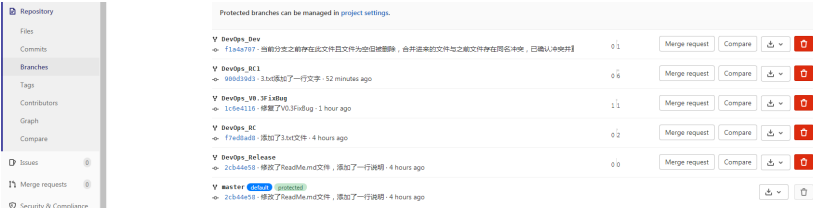
warning: ----- SECURITY WARNING -----
warning: | TLS certificate verification has been disabled! |
warning: -----
warning: HTTPS connections may not be secure. See https://aka.ms/gcmcore-tlsverify for more information.
warning: ----- SECURITY WARNING -----
warning: | TLS certificate verification has been disabled! |
warning: -----
warning: HTTPS connections may not be secure. See https://aka.ms/gcmcore-tlsverify for more information.
To http://[redacted]:[redacted]@devops.git
- [deleted] DevOps_RC2
```

可以看到远程的此分支已经删除了

```
$ git branch -av
* DevOps_V0.3FixBug
  DevOps_Dev
  DevOps_RC
  DevOps_RC1
  DevOps_RC2
  DevOps_Release
  DevOps_V0.3FixBug
  master
remotes/origin/DevOps_Dev
remotes/origin/DevOps_RC
remotes/origin/DevOps_RC1
remotes/origin/DevOps_Release
remotes/origin/DevOps_V0.3FixBug
remotes/origin/master

f1a4a70 当前分支之前存在此文件且文件为空但被删除，合并进来的文件与之前文件存在同名冲突，已确认冲突并重新做了添加
f7ed8ad 添加了3.txt文件
900d39d 3.txt添加了一行文字
900d39d 3.txt添加了一行文字
2cb44e5 修改了ReadMe.md文件，添加了一行说明
1c6e411 修复了V0.3FixBug
2cb44e5 修改了ReadMe.md文件，添加了一行说明
f1a4a70 当前分支之前存在此文件且文件为空但被删除，合并进来的文件与之前文件存在同名冲突，已确认冲突并重新做了添加
f7ed8ad 添加了3.txt文件
900d39d 3.txt添加了一行文字
2cb44e5 修改了ReadMe.md文件，添加了一行说明
1c6e411 修复了V0.3FixBug
2cb44e5 修改了ReadMe.md文件，添加了一行说明
```

可以看到远程的此分支已经删除了



5.13.3 删除远程分支

```
$ git branch -dr origin/DevOps_RC1
Deleted remote-tracking branch origin/DevOps_RC1 (was 900d39d).

$ git branch -av
* DevOps_V0.3FixBug
  DevOps_Dev
  DevOps_RC
  DevOps_RC1
  DevOps_RC2
  DevOps_Release
  DevOps_V0.3FixBug
  master
remotes/origin/DevOps_Dev
remotes/origin/DevOps_RC
remotes/origin/DevOps_Release
remotes/origin/DevOps_V0.3FixBug
remotes/origin/master

f1a4a70 当前分支之前存在此文件且文件为空但被删除，合并进来的文件与之前文件存在同名冲突，已确认冲突并重新做了添加
f7ed8ad 添加了3.txt文件
900d39d [gone] 3.txt添加了一行文字
900d39d [gone] 3.txt添加了一行文字
2cb44e5 修改了ReadMe.md文件，添加了一行说明
1c6e411 修复了V0.3FixBug
2cb44e5 修改了ReadMe.md文件，添加了一行说明
f1a4a70 当前分支之前存在此文件且文件为空但被删除，合并进来的文件与之前文件存在同名冲突，已确认冲突并重新做了添加
f7ed8ad 添加了3.txt文件
900d39d [gone] 3.txt添加了一行文字
2cb44e5 修改了ReadMe.md文件，添加了一行说明
1c6e411 修复了V0.3FixBug
2cb44e5 修改了ReadMe.md文件，添加了一行说明
```

gone 表示已经被删除的；

```
$ git branch -av
* DevOps_V0.3FixBug
  DevOps_Dev
  DevOps_RC
  DevOps_RC1
  DevOps_RC2
  DevOps_Release
  DevOps_V0.3FixBug
  master
remotes/origin/DevOps_Dev
remotes/origin/DevOps_RC
remotes/origin/DevOps_Release
remotes/origin/DevOps_V0.3FixBug
remotes/origin/master

f1a4a70 当前分支之前存在此文件且文件为空但被删除，合并进来的文件与之前文件存在同名冲突，已确认冲突并重新做了添加
f7ed8ad 添加了3.txt文件
900d39d [gone] 3.txt添加了一行文字
900d39d [gone] 3.txt添加了一行文字
2cb44e5 修改了ReadMe.md文件，添加了一行说明
1c6e411 修复了V0.3FixBug
2cb44e5 修改了ReadMe.md文件，添加了一行说明
f1a4a70 当前分支之前存在此文件且文件为空但被删除，合并进来的文件与之前文件存在同名冲突，已确认冲突并重新做了添加
f7ed8ad 添加了3.txt文件
900d39d [gone] 3.txt添加了一行文字
2cb44e5 修改了ReadMe.md文件，添加了一行说明
1c6e411 修复了V0.3FixBug
2cb44e5 修改了ReadMe.md文件，添加了一行说明
```

gone 表示已经被删除的；

6. 标签

6.1列出所有 tag

```
$ git tag
$ git tag
V0.3FixBug
$ git tag -l
```

```
DevOps_Dev_V1.0
Dev_V1.0
V0.3FixBug
$ git tag --list
DevOps_Dev_V1.0
Dev_V1.0
V0.3FixBug
```

6.2新建一个 tag 在当前 commit

```
$ git tag [tag]
```

```
$ git tag V0.3FixBug
```

6.3新建一个 tag 在指定 commit

```
$ git tag [tag] [commit] -m [message]
```

```
$ git tag Dev_V1.0 89d1d5b198a77deb9096e11b02aec7187221f384 -m "初始开发基线"
```

6.4新建一个tag在当前commit,提交信息为： 文件内容

```
$ git tag DevOps_Dev_V1.0 -F ReleaseNotes.md
```

6.5查看 tag 信息

```
$ git show [tag]
$ git show DevOps_Dev_V1.0
```

```

$ git show DevOps_Dev_V1.0
tag DevOps_Dev_V1.0
Tagger: 
Date:   Sat Jul 10 16:22:31 2021 +0800
Version: (Dev_v1.0)

Introduction:
  welcome to use NCF package , using it , you can develop your personal control-application code  quickly.

  more information http://www.devops.com

  this version is from V0.3FixBug

System Requirements:
- CPU:  2C
- OS:   windows7 64位
- Memory: 1G
- Hard-disk: 40G
- Others:

Runtime Environment

V0.3FixBug
- 修改Demo程序bug

Dev_v1.0
- 建立DevOps平台项目
- 建立DevOps项目
- 需要.netframework4.6.1支持
- 需要mysqlV5.1.5支持

commit 3d9be30ad315aee214870d38a5bce07de8fc19d2 (HEAD -> DevOps_Dev, tag: DevOps_Dev_V1.0, origin/DevOps_Dev)
```

6.6提交指定 tag到远程仓库

```
$ git push [remote] [tag]
```

```
$ git push origin V0.3FixBug
```

```
$ git push origin V0.3FixBug
warning: ----- SECURITY WARNING -----
warning: | TLS certificate verification has been disabled! |
warning: -----
warning: HTTPS connections may not be secure. See https://aka.ms/gcmcore-tlsverify for more information.
warning: ----- SECURITY WARNING -----
warning: | TLS certificate verification has been disabled! |
warning: -----
warning: HTTPS connections may not be secure. See https://aka.ms/gcmcore-tlsverify for more information.
Total 0 (delta 0), reused 0 (delta 0), pack-reused 0
To http://devops/devops.git
 * [new tag]          V0.3FixBug -> V0.3FixBug
```

6.7提交所有 tag

```
$ git push [remote] --tags
```

```
$ git push origin --tags
```

```
$ git push origin --tags
warning: ----- SECURITY WARNING -----
warning: | TLS certificate verification has been disabled! |
warning: -----
warning: HTTPS connections may not be secure. See https://aka.ms/gcmcore-tlsverify for more information.
warning: ----- SECURITY WARNING -----
warning: | TLS certificate verification has been disabled! |
warning: -----
warning: HTTPS connections may not be secure. See https://aka.ms/gcmcore-tlsverify for more information.
Enumerating objects: 2, done.
Counting objects: 100% (2/2), done.
Delta compression using up to 4 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (2/2), 673 bytes | 168.00 KiB/s, done.
Total 2 (delta 0), reused 0 (delta 0), pack-reused 0
To http://[redacted]:[redacted]/devops/devops.git
 * [new tag]          DevOps_Dev_V1.0 -> DevOps_Dev_V1.0
 * [new tag]          Dev_V1.0 -> Dev_V1.0
```

6.8基于某个tag创建分支并切换至该分支

```
$ git checkout -b [branch] [tag]
```

```
$ git checkout -b DevOps_RC3 V0.3FixBug
```

```
MINGW64 ~/Desktop/DevOps/devops (DevOps_Dev)
$ git checkout -b DevOps_RC3 V0.3FixBug
Switched to a new branch 'DevOps_RC3'

MINGW64 ~/Desktop/DevOps/devops (DevOps_RC3)
```

7.查看信息

7.1显示有变更的文件

```
$ git status
```

```
On branch DevOps_Dev
Your branch is up to date with 'origin/DevOps_Dev'.

You are currently cherry-picking commit 900d39d.
(fix conflicts and run "git cherry-pick --continue")
(use "git cherry-pick --skip" to skip this patch)
(use "git cherry-pick --abort" to cancel the cherry-pick operation)

Unmerged paths:
  (use "git add/rm <file>..." as appropriate to mark resolution)
    deleted by us:   3.txt

no changes added to commit (use "git add" and/or "git commit -a")
```

7.2显示当前分支的版本历史

```
$ git log
```

```
commit 2cb44e585aab4d1b2370a3e42dc6d4070fe217dc (HEAD -> DevOps_Dev, ori
Author: zhangsan <zhangsan@263.com>
Date:   Sat Jul 10 11:03:12 2021 +0800
    修改了ReadMe.md文件，添加了一行说明
commit 89d1d5b198a77deb9096e11b02aec7187221f384 (origin/DevOps_V0.3FixBu
Author: zhangsan <zhangsan@263.com>
Date:   Sat Jul 10 10:59:09 2021 +0800
    添加User文件夹
commit b54962a30b090f02a39fc3c6185750cf07b068ea
Author: zhangsan <zhangsan@263.com>
Date:   Sat Jul 10 10:58:30 2021 +0800
    添加忽略文件
commit e76012d77857841d344ac04893a158e75e8088fc
Author: zhangsan <zhangsan@263.com>
Date:   Sat Jul 10 10:56:46 2021 +0800
    添加Readme.md文件
```

7.3显示 commit 历史，以及每次 commit 发生变更的文件

```
$ git log --stat
```

```
commit 1c6e4116363e0dce9a931eeaad1d1dcd470bb673 (HEAD -> DevOps_RC3, tag: Dev_V1.0)
Author: zhangsan <zhangsan@263.com>
Date: Sat Jul 10 14:07:01 2021 +0800
    修复了V0.3FixBug
    README.md | 1 +
    1 file changed, 1 insertion(+)
commit 89d1d5b198a77deb9096e11b02aec7187221f384 (tag: Dev_V1.0)
Author: zhangsan <zhangsan@263.com>
Date: Sat Jul 10 10:59:09 2021 +0800
    添加User文件夹
    Users/Naura.Framework.Service.Users/Encryption.cs | 100 ++
    Users/Naura.Framework.Service.Users/Group.cs | 215 ++++
    Users/Naura.Framework.Service.Users/IUser.cs | 86 ++
    .../IUserClientService.cs | 152 +++
    .../Naura.Framework.Service.Users.csproj | 97 ++
    .../Properties/AssemblyInfo.cs | 36 +
    Users/Naura.Framework.Service.Users/User.cs | 266 +++++
    Users/Naura.Framework.Service.Users/UserClient.cs | 16 +
    .../UserClientService.cs | 901 ++++++
    .../Naura.Framework.Service.Users/UserContract.cs | 207 ++++
    Users/Naura.Framework.Service.Users/UserServer.cs | 1171 ++++++
    .../DesignTimeResolveAssemblyReferencesInput.cache | Bin 0 -> 6960 bytes
    ...ework.Service.Users.csproj.FileListAbsolute.txt | 6 +
    ...vice.Users.csprojResolveAssemblyReference.cache | Bin 0 -> 22983 bytes
    .../obj/Debug/Naura.Framework.Service.Users.dll | Bin 0 -> 38912 bytes
commit 1c6e4116363e0dce9a931eeaad1d1dcd470bb673 (HEAD -> DevOps_RC3, tag: Dev_V1.0)
Author: zhangsan <zhangsan@263.com>
Date: Sat Jul 10 14:07:01 2021 +0800
    修复了V0.3FixBug
    README.md | 1 +
    1 file changed, 1 insertion(+)
commit 89d1d5b198a77deb9096e11b02aec7187221f384 (tag: Dev_V1.0)
Author: zhangsan <zhangsan@263.com>
Date: Sat Jul 10 10:59:09 2021 +0800
    添加User文件夹
    Users/Naura.Framework.Service.Users/Encryption.cs | 100 ++
    Users/Naura.Framework.Service.Users/Group.cs | 215 ++++
    Users/Naura.Framework.Service.Users/IUser.cs | 86 ++
    .../IUserClientService.cs | 152 +++
    .../Naura.Framework.Service.Users.csproj | 97 ++
    .../Properties/AssemblyInfo.cs | 36 +
    Users/Naura.Framework.Service.Users/User.cs | 266 +++++
    Users/Naura.Framework.Service.Users/UserClient.cs | 16 +
    .../UserClientService.cs | 901 ++++++
    .../Naura.Framework.Service.Users/UserContract.cs | 207 ++++
    Users/Naura.Framework.Service.Users/UserServer.cs | 1171 ++++++
    .../DesignTimeResolveAssemblyReferencesInput.cache | Bin 0 -> 6960 bytes
    ...ework.Service.Users.csproj.FileListAbsolute.txt | 6 +
    ...vice.Users.csprojResolveAssemblyReference.cache | Bin 0 -> 22983 bytes
    .../obj/Debug/Naura.Framework.Service.Users.dll | Bin 0 -> 38912 bytes
    .../obj/Debug/Naura.Framework.Service.Users.pdb | Bin 0 -> 77312 bytes
    ...tedFile_036C0B5B-1481-4323-8D20-8F5ADCB23D92.cs | 0
    ...tedFile_5937a670-0e60-4077-877b-f7221da3dda1.cs | 0
    ...tedFile_E7A71F73-0F8D-4B9B-B56E-8E70B10BC5D3.cs | 0
    .../GroupTests.cs | 51 +
    .../Naura.Framework.Service.UsersTests.csproj | 99 ++
    .../Properties/AssemblyInfo.cs | 36 +
    .../DesignTimeResolveAssemblyReferencesInput.cache | Bin 0 -> 6571 bytes
    ...Service.UsersTests.csproj.FileListAbsolute.txt | 17 +
    ...UsersTests.csprojResolveAssemblyReference.cache | Bin 0 -> 38740 bytes
    .../Debug/Naura.Framework.Service.UsersTests.dll | Bin 0 -> 5120 bytes
    .../Debug/Naura.Framework.Service.UsersTests.pdb | Bin 0 -> 11776 bytes
    ...tedFile_036C0B5B-1481-4323-8D20-8F5ADCB23D92.cs | 0
    ...tedFile_5937a670-0e60-4077-877b-f7221da3dda1.cs | 0
    ...tedFile_E7A71F73-0F8D-4B9B-B56E-8E70B10BC5D3.cs | 0
    30 files changed, 3456 insertions(+)
commit b54962a30b090f02a39fc3c6185750cf07b068ea
Author: zhangsan <zhangsan@263.com>
Date: Sat Jul 10 10:58:30 2021 +0800
    添加忽略文件
    .gitignore | 1 +
    1 file changed, 1 insertion(+)
```

```
commit e76012d77857841d344ac04893a158e75e8088fc
Author: zhangsan <zhangsan@263.com>
Date: Sat Jul 10 10:56:46 2021 +0800
    添加Readme.md文件
Readme.md | 1 +
1 file changed, 1 insertion(+)
(END)
```

7.4显示某个文件的版本历史，包括文件改名

\$ git log --follow [file]

```
$ git log --follow Readme.md
commit 1c6e4116363e0dce9a931eeaad1d1dcd470bb673 (HEAD -> DevOps_RC3, tag
Author: zhangsan <zhangsan@263.com>
Date: Sat Jul 10 14:07:01 2021 +0800
    修复了V0.3FixBug

commit e76012d77857841d344ac04893a158e75e8088fc
Author: zhangsan <zhangsan@263.com>
Date: Sat Jul 10 10:56:46 2021 +0800
    添加Readme.md文件
```

\$ git whatchanged [file]

```
$ git whatchanged Readme.md
commit 1c6e4116363e0dce9a931eeaad1d1dcd470bb673 (HEAD -> DevOps_RC3, tag
Author: zhangsan <zhangsan@263.com>
Date: Sat Jul 10 14:07:01 2021 +0800
    修复了V0.3FixBug
:100644 100644 6c1b17d 82f1ecb M      Readme.md
commit e76012d77857841d344ac04893a158e75e8088fc
Author: zhangsan <zhangsan@263.com>
Date: Sat Jul 10 10:56:46 2021 +0800
    添加Readme.md文件
:000000 100644 0000000 6c1b17d A      Readme.md
```

7.5显示指定文件相关的每一次 diff

\$ git log -p [file]

\$ git log -p Readme.md

```
commit 1c6e4116363e0dce9a931eeaad1d1dcd470bb673 (HEAD -> DevOps_RC3, tag
Author: zhangsan <zhangsan@263.com>
Date: Sat Jul 10 14:07:01 2021 +0800
    修复了V0.3FixBug
diff --git a/Readme.md b/Readme.md
index 6c1b17d..82f1ecb 100644
--- a/Readme.md
+++ b/Readme.md
@@ -1,2 @@
- this is my first add
+修改了V0.3FixBug的Bug
commit e76012d77857841d344ac04893a158e75e8088fc
Author: zhangsan <zhangsan@263.com>
Date: Sat Jul 10 10:56:46 2021 +0800
    添加Readme.md文件
diff --git a/Readme.md b/Readme.md
new file mode 100644
index 0000000..6c1b17d
--- /dev/null
+++ b/Readme.md
@@ -0,0 +1 @@
+this is my first add
```

7.6显示指定文件是什么人在什么时间修改过

```
$ git blame [file]
```

```
$ git blame Readme.md
```

```
$ git blame Readme.md
^e76012d ( 2021-07-10 10:56:46 +0800 1) this is my first add
1c6e4116 ( 2021-07-10 14:07:01 +0800 2) 修改了V0.3FixBug的Bug
```

7.7显示暂存区和上一个 commit 的差异

```
$ git diff --cached []
```

```
$ git diff --cached 89d1d5b198a77deb9096e11b02aec7187221f384
```

```
$ git diff --cached 89d1d5b198a77deb9096e11b02aec7187221f384
diff --git a/Readme.md b/Readme.md
index 6c1b17d..fa3bd74 100644
--- a/Readme.md
+++ b/Readme.md
@@ -1,4 @@
 this is my first add
+修改了V0.3FixBug的Bug
+测试一下git diff
+我要保存在暂存区
```

**不写commitID 默认是最新的commit ID **

```
$ git diff --cached
diff --git a/Readme.md b/Readme.md
index 561f60a..fa3bd74 100644
--- a/Readme.md
+++ b/Readme.md
@@ -1,3 +1,4 @@
 this is my first add
 修改了V0.3FixBug的Bug
 测试一下git diff
+我要保存在暂存区
```

7.8显示工作区与当前分支最新 commit 之间的差异

```
$ git diff HEAD
```

```
$ git diff HEAD
diff --git a/Readme.md b/Readme.md
index 561f60a..fa3bd74 100644
--- a/Readme.md
+++ b/Readme.md
@@ -1,3 +1,4 @@
 this is my first add
 修改了V0.3FixBug的Bug
 测试一下git diff
+我要保存在暂存区
```

7.9显示两个分支之间的差异

```
$ git diff [first-branch]...[second-branch]
```

```
$ git diff DevOps_RC3 DevOps_Dev
```

```
diff --git a/3.txt b/3.txt
new file mode 100644
index 0000000..13137df
--- /dev/null
+++ b/3.txt
@@ -0,0 +1 @@
+我想测试一下cherry-pick [commit]
diff --git a/Readme.md b/Readme.md
index 561f60a..8b12de6 100644
```

```

--- a/Readme.md
+++ b/Readme.md
@@ -1,3 +1,2 @@
  this is my first add
-修改了V0.3FixBug的Bug
diff --git a/3.txt b/3.txt
new file mode 100644
index 0000000..13137df
--- /dev/null
+++ b/3.txt
@@ -0,0 +1 @@
+我想测试一下cherry-pick [commit]
diff --git a/Readme.md b/Readme.md
index 561f60a..8b12de6 100644
--- a/Readme.md
+++ b/Readme.md
@@ -1,3 +1,2 @@
  this is my first add
-修改了V0.3FixBug的Bug
-测试一下git diff
+this is my first commit -a
diff --git a/ReleaseNotes.md b/ReleaseNotes.md
new file mode 100644
index 0000000..1a4e89a
--- /dev/null
+++ b/ReleaseNotes.md
@@ -0,0 +1,26 @@
+Version: (Dev_v1.0)
+
++Introduction:
++    welcome to use NCF package , using it , you can develop your per
++
++    more information http://www.devops.com
++
++    this version is from V0.3FixBug
++
++
++System Requirements:
++    - CPU: 2C
++    - OS: windows7 64位
++    - Memory: 1G
++    - Hard-disk: 40G
++    - Others:
++Runtime Environment
++
++V0.3FixBug
++    - 修改Demo程序bug
++
++Dev_v1.0
++    - 建立DevOps平台项目
++    - 建立DevOps项目
++    - 需要.netframework4.6.1支持
++    - 需要mysqlV5.1.5支持
+(END)

```

7.10显示两次commit之间的差异

```
$ git diff 304db4dfdd ab794ed848
```



```
$ git diff 304db4dfdd ab794ed848
diff --git a/4.txt b/4.txt
deleted file mode 100644
index e69de29..0000000
diff --git a/Readme.md b/Readme.md
index fa3bd74..561f60a 100644
--- a/Readme.md
+++ b/Readme.md
@@ -1,4 +1,3 @@
 this is my first add
 修改了V0.3FixBug的Bug
 测试一下git diff
-我要保存在暂存区
```

7.11显示某次提交的元数据和内容变化

```
$ git show [commit]
```

```
$ git show ab794ed848f8cbe0f4b1be065555f5e0b1124d5d
```

```
$ git show ab794ed848f8cbe0f4b1be065555f5e0b1124d5d
commit ab794ed848f8cbe0f4b1be065555f5e0b1124d5d
Author: 
Date: Sat Jul 10 17:38:03 2021 +0800

    修改了Readme文件，增加了一行

diff --git a/Readme.md b/Readme.md
index 82f1ecb..561f60a 100644
--- a/Readme.md
+++ b/Readme.md
@@ -1,2 +1,3 @@
 this is my first add
 修改了V0.3FixBug的Bug
+测试一下git diff
```

7.12显示某次提交发生变化的文件

```
$ git show --name-only [commit]
```

```
$ git show --name-only b54962a30
```

```
$ git show --name-only b54962a30
commit b54962a30b090f02a39fc3c6185750cf07b068ea
Author: 
Date: Sat Jul 10 10:58:30 2021 +0800

    添加忽略文件

.gitignore
```

7.13显示某次提交时，某个文件的内容

```
$ git show [commit]:[filename]
```

```
$ git show 304db4dfdd:Readme.md
```

```
$ git show 304db4dfdd:Readme.md
this is my first add
修改了V0.3FixBug的Bug
测试一下git diff
我要保存在暂存区
```

显示所有的提交

```
$ git reflog
```

```
$ git reflog
8d4dd4d (HEAD -> DevOps_RC3) HEAD@{0}: commit: 增加了4.txt, Readme.md文件追加一行
ab794ed HEAD@{1}: commit: 修改了Readme文件, 增加了一行
1c6e411 (tag: V0.3FixBug, origin/DevOps_V0.3FixBug, origin/DevOps_RC3, DevOps_V0.3FixBug) HEAD@{2}: checkout: moving from DevOps_Dev to DevOps_RC3
3d9be3d (tag: DevOps_Dev_V1.0, origin/DevOps_Dev, DevOps_Dev) HEAD@{3}: commit: 添加 ReleaseNotes 文件
f1a4a70 HEAD@{4}: checkout: moving from DevOps_V0.3FixBug to DevOps_Dev
1c6e411 (tag: V0.3FixBug, origin/DevOps_V0.3FixBug, origin/DevOps_RC3, DevOps_V0.3FixBug) HEAD@{5}: checkout: moving from DevOps_RC2 to DevOps_V0.3FixBug
90d39d (DevOps_RC2, DevOps_RC1) HEAD@{6}: pull: Fast-forward
c11bb1a HEAD@{7}: checkout: moving from DevOps_RC1 to DevOps_RC2
90d39d (DevOps_RC2, DevOps_RC1) HEAD@{8}: checkout: moving from DevOps_Dev to DevOps_RC1
f1a4a70 HEAD@{9}: commit (cherry-pick): 当前分支存在此文件且文件为空但被删除, 合并进来的文件与之前文件存在同名冲突, 已确认冲突并重新做了添加
2cb44e5 (origin/master, origin/DevOps_Release, master, DevOps_Release) HEAD@{10}: checkout: moving from DevOps_RC1 to DevOps_Dev
80d39d (DevOps_RC2, DevOps_RC1) HEAD@{11}: commit: 3.txt添加了一行文字
f6d38c0 HEAD@{12}: commit (merge): 合并冲突已经解决
c11bb1a HEAD@{13}: checkout: moving from DevOps_V0.3FixBug to DevOps_RC1
1c6e411 (tag: V0.3FixBug, origin/DevOps_V0.3FixBug, origin/DevOps_RC3, DevOps_V0.3FixBug) HEAD@{14}: commit: 修复了V0.3FixBug
89d1d5b (tag: Dev_V1.0, HEAD@{15}): checkout: moving from DevOps_RC2 to DevOps_V0.3FixBug
c11bb1a HEAD@{16}: pull: Fast-forward
f7ed8ad (origin/DevOps_RC, DevOps_RC) HEAD@{17}: checkout: moving from DevOps_RC1 to DevOps_RC2
c11bb1a HEAD@{18}: commit: 修改了Readme.md文件, 添加了一行
f7ed8ad (origin/DevOps_RC, DevOps_RC) HEAD@{19}: pull: Fast-forward
2cb44e5 (origin/master, origin/DevOps_Release, master, DevOps_Release) HEAD@{20}: checkout: moving from DevOps_RC to DevOps_RC1
f7ed8ad (origin/DevOps_RC, DevOps_RC) HEAD@{21}: commit: 添加了3.txt文件
37a7725 HEAD@{22}: commit: 添加了一个2.txt文件
2cb44e5 (origin/master, origin/DevOps_Release, master, DevOps_Release) HEAD@{23}: checkout: moving from master to DevOps_RC
2cb44e5 (origin/master, origin/DevOps_Release, master, DevOps_Release) HEAD@{24}: commit (amend): 修改了Readme.md文件, 添加了一行说明
5b190a9 HEAD@{25}: commit: 修改了Readme.md文件
89d1d5b (tag: Dev_V1.0) HEAD@{26}: commit: 添加User:文件夹
354962a HEAD@{27}: commit: 添加远程文件
76d12d HEAD@{28}: commit (initial): 添加Readme.md文件
```

8.远程同步

8.1拉取远程仓库的所有变动

```
$ git fetch [remote]
```

```
$ git fetch origin
```

```
$ git fetch origin
warning: ----- SECURITY WARNING -----
warning: | TLS certificate verification has been disabled! |
warning: -----
warning: HTTPS connections may not be secure. See https://aka.ms/gcmcore-tlsverify for more information.
warning: ----- SECURITY WARNING -----
warning: | TLS certificate verification has been disabled! |
warning: -----
warning: HTTPS connections may not be secure. See https://aka.ms/gcmcore-tlsverify for more information.
From http://[redacted]:devops/devops
* [new branch]      DevOps_RC1 -> origin/DevOps_RC1
```

8.2显示所有远程仓库

```
$ git remote -v
```

```
$ git remote -v
origin  http://[redacted]:devops/devops.git (fetch)
origin  http://[redacted]:devops/devops.git (push)
```

8.3显示某个远程仓库的信息

```
$ git remote show [remote]
```

```
$ git remote show origin
```

```
warning: ----- SECURITY WARNING -----
warning: | TLS certificate verification has been disabled! |
warning: -----
warning: HTTPS connections may not be secure. See https://aka.ms/gcmcore-tlsverify for more information.
warning: ----- SECURITY WARNING -----
warning: | TLS certificate verification has been disabled! |
warning: -----
warning: HTTPS connections may not be secure. See https://aka.ms/gcmcore-tlsverify for more information.
* remote origin
Fetch URL: http://192.168.145.89/devops/devops.git
Push URL: http://192.168.145.89/devops/devops.git
HEAD branch: master
Remote branches:
  DevOps_Dev      tracked
  DevOps_RC       tracked
  DevOps_RC1      tracked
  DevOps_RC3      tracked
  DevOps_Release  tracked
  DevOps_V0.3FixBug tracked
  master          tracked
Local branches configured for 'git pull':
  DevOps_Dev      merges with remote DevOps_Dev
  DevOps_RC       merges with remote DevOps_RC
  DevOps_RC1      merges with remote DevOps_RC1
```

```
DevOps_RC2      merges with remote DevOps_RC1
DevOps_Release  merges with remote DevOps_Release
DevOps_V0.3FixBug merges with remote DevOps_V0.3FixBug
master          merges with remote master
Local refs configured for 'git push':
DevOps_Dev      pushes to DevOps_Dev      (up to date)
DevOps_RC       pushes to DevOps_RC       (up to date)
DevOps_RC1      pushes to DevOps_RC1      (up to date)
DevOps_RC3      pushes to DevOps_RC3      (fast-forwardable)
DevOps_Release  pushes to DevOps_Release  (up to date)
DevOps_V0.3FixBug pushes to DevOps_V0.3FixBug (up to date)
master          pushes to master          (up to date)
```

8.4增加一个新的远程仓库，并命名

```
$ git remote add [shortname] [url]
```

```
$ git remote add DevOps_MaTest
http://192.168.145.89/devops/devops_matest.git
```

```
$ git remote -v
```

```
DevOps_MaTest  http://192.168.145.89/devops/devops_matest.git (fetch)
DevOps_MaTest  http://192.168.145.89/devops/devops_matest.git (push)
origin         http://192.168.145.89/devops/devops.git (fetch)
origin         http://192.168.145.89/devops/devops.git (push)
```

8.5取回远程仓库的变化，并与本地分支合并

```
$ git pull [remote] [branch]
```

8.6上传本地指定分支到远程仓库

```
$ git push [remote] [branch]
```

8.7强行推送当前分支到远程仓库，即使有冲突

```
$ git push [remote] --force
```

8.8推送所有分支到远程仓库

```
$ git push [remote] --all
```

9.撤销

9.1恢复暂存区的指定文件到工作区

```
$ git checkout [file]
```

9.2恢复某个 commit 的指定文件到工作区

```
$ git checkout [commit] [file]
```

9.3恢复上一个 commit 的所有文件到工作区

```
$ git checkout .
```

9.4重置暂存区的指定文件，与上一次 commit 保持一致，但工作区不变

```
$ git reset [file]
```

9.5重置暂存区与工作区，与上一次 commit 保持一致

```
$ git reset --hard
```

9.6重置当前分支的指针为指定 commit，同时重置暂存区，但工作区不变

```
$ git reset [commit]
```

9.7重置当前分支的 HEAD 为指定 commit，同时重置暂存区和工作区，与指定 commit 一致

```
$ git reset --hard [commit]
```

9.8重置当前 HEAD 为指定 commit，但保持暂存区和工作区不变

```
$ git reset --keep [commit]
```

9.9新建一个 commit，用来撤销指定 commit

9.10后者的所有变化都将被前者抵消，并且应用到当前分支

```
$ git revert [commit]
```

创作不易，本人热衷开源共享 [Git常用命令超级详细（全网最详细）](https://www.cnblogs.com/cndevops/p/14993331.html)

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