

# 1.Git基础命令的学习

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## 初始化

### ^ 代码块

```
1  #在现有的目录中初始化仓库
2  git init
3  #从现有的远程仓库克隆项目到本地
4  git clone url
5
6
7  #使用以上两个任一命令, 会在本地当前目录下生成.git子目录, .git目录包含以下内容
8  admindeMacBook-Pro:test2 sunruize$ ls .git/
9  HEAD      config      hooks      objects
10 branches  description info       refs
```

## 检查文件的状态, 列出已修改的文件——git status

### ^ 代码块

```
1  admindeMacBook-Pro:my_resume sunruize$ vim README
2  admindeMacBook-Pro:my_resume sunruize$ git status
3  On branch master
4  Your branch is up to date with 'origin/master'.
5
6  Untracked files:
7    (use "git add <file>..." to include in what will be committed)
```

```
8
9      README
10
11 nothing added to commit but untracked files present (use "git add" to track
```

## 暂存已修改的文件——git add

### ^ 代码块

```
1  admindeMacBook-Pro:my_resume sunruize$ git add README
2  admindeMacBook-Pro:my_resume sunruize$ git status      #暂存文件后再
   件的状态
3  On branch master
4  Your branch is up to date with 'origin/master'.
5
6  Changes to be committed:
7    (use "git reset HEAD <file>..." to unstage)
8
9      new file:   README
10
11 #文件暂存后再次修改并查看状态
12 admindeMacBook-Pro:my_resume sunruize$ vi README
13 admindeMacBook-Pro:my_resume sunruize$ git status
14 On branch master
15 Your branch is up to date with 'origin/master'.
16
17 Changes to be committed:
18    (use "git reset HEAD <file>..." to unstage)
19
20      new file:   README
21
22 Changes not staged for commit:
23    (use "git add <file>..." to update what will be committed)
24    (use "git checkout -- <file>..." to discard changes in working directory)
25
26      modified:   README
```

## 查看文件修改的内容——git diff

### ^ 代码块

```
1  admindeMacBook-Pro:my_resume sunruize$ git diff README
2  diff --git a/README b/README
3  index 8178c76..8782f7c 100644
4  --- a/README
```

```
5  +++ b/README
6  @@ -1 +1,2 @@
7   readme
8  +readme_modified
9
10 #将最新修改的内容暂存起来，查看文件的状态
11 admindeMacBook-Pro:my_resume sunruize$ git add README
12 admindeMacBook-Pro:my_resume sunruize$ git status
13 On branch master
14 Your branch is up to date with 'origin/master'.
15
16 Changes to be committed:
17   (use "git reset HEAD <file>..." to unstage)
18
19   new file:   README
20
```

## 提交——git commit

### ^ 代码块

```
1  #git commit -m "t=提交说明"
2
3  admindeMacBook-Pro:test sunruize$ git commit
4  [newBranch1 39ca23d] "test commit"
5   1 file changed, 1 insertion(+)
6   create mode 100644 README
```

## 重新提交/修改提交说明——git commit -amend

### ^ 代码块

```
1  #如果有文件提交有遗漏，重新进行提交 git commit -amend
2
3  admindeMacBook-Pro:my_resume sunruize$ git add test_left.log
4  admindeMacBook-Pro:my_resume sunruize$ git commit --amend
5  [master bb97428] com_test_left
6   Date: Fri Mar 15 16:20:21 2019 +0800
7   2 files changed, 3 insertions(+)
8   create mode 100644 README
9   create mode 100644 test_left.log
10 admindeMacBook-Pro:my_resume sunruize$ git status
11 On branch master
12 Your branch is ahead of 'origin/master' by 1 commit.
13   (use "git push" to publish your local commits)
```

```
14
15  nothing to commit, working tree clean
16
17
```

## 查看远程仓库——git remote

### ^ 代码块

```
1  admindeMacBook-Pro:my_resume sunruize$ git remote
2  origin
3  #指定选项 -v, 会显示需要读写远程仓库使用的 Git 保存的简写与其对应的 URL
4  admindeMacBook-Pro:my_resume sunruize$ git remote -v
5  origin      https://github.com/mastersunnnnnnnnnn/my_resume.git (fetch)
6  origin      https://github.com/mastersunnnnnnnnnn/my_resume.git (push)
7
8  #查看远程仓库信息
9  admindeMacBook-Pro:my_resume sunruize$ git remote show origin
10 * remote origin
11   Fetch URL: https://github.com/mastersunnnnnnnnnn/my_resume.git
12   Push  URL: https://github.com/mastersunnnnnnnnnn/my_resume.git
13   HEAD branch: master
14   Remote branch:
15     master tracked
16   Local branch configured for 'git pull':
17     master merges with remote master
18   Local ref configured for 'git push':
19     master pushes to master (up to date)
```

## 推送到远程仓库——git push

### ^ 代码块

```
1  admindeMacBook-Pro:my_resume sunruize$ git push origin master
2  Username for 'https://github.com': 754153179@qq.com
3  Password for 'https://754153179@qq.com@github.com':
4  Enumerating objects: 5, done.
5  Counting objects: 100% (5/5), done.
6  Delta compression using up to 8 threads
7  Compressing objects: 100% (2/2), done.
8  Writing objects: 100% (4/4), 402 bytes | 402.00 KiB/s, done.
9  Total 4 (delta 0), reused 0 (delta 0)
10 To https://github.com/mastersunnnnnnnnnn/my_resume.git
11    23636d3..bb97428  master -> master
```

## 撤销修改

### ^ 代码块

```
1  #修改文件并查看文件状态
2  admindeMacBook-Pro:my_resume sunruize$ vi README
3  admindeMacBook-Pro:my_resume sunruize$ git status
4  On branch master
5  Your branch is up to date with 'origin/master'.
6
7  Changes not staged for commit:
8      (use "git add <file>..." to update what will be committed)
9      (use "git checkout -- <file>..." to discard changes in working directory)
10
11      modified:   README
12
13  no changes added to commit (use "git add" and/or "git commit -a")
14  =====
15  #1.文件未暂存—git checkout -- fileName
16
17  admindeMacBook-Pro:my_resume sunruize$ git status
18  On branch master
19  Your branch is up to date with 'origin/master'.
20
21  nothing to commit, working tree clean
22  =====
23  #2.文件已暂存—git reset HEAD fileName + git checkout -- fileName
24
25  admindeMacBook-Pro:my_resume sunruize$ git reset HEAD README
26  Unstaged changes after reset:
27  M    README
28  admindeMacBook-Pro:my_resume sunruize$ git status
29  On branch master
30  Your branch is up to date with 'origin/master'.
31
32  Changes not staged for commit:
33      (use "git add <file>..." to update what will be committed)
34      (use "git checkout -- <file>..." to discard changes in working directory)
35
36      modified:   README
37
38  no changes added to commit (use "git add" and/or "git commit -a")
```

```
39 admindeMacBook-Pro:my_resume sunruize$ git checkout -- README
40 admindeMacBook-Pro:my_resume sunruize$ git status
41 On branch master
42 Your branch is up to date with 'origin/master'.
43
44 nothing to commit, working tree clean
45 admindeMacBook-Pro:my_resume sunruize$
46 =====
47 3.文件已提交—git log + git reset --hard [commitID]
48 admindeMacBook-Pro:my_resume sunruize$ git log
49 commit 1142d3c0095e4d34dc3ebaf076cde8f61dle4210 (HEAD -> master)
50 Author: sunruize02 <sunruize02@meituan.com>
51 Date: Fri Mar 15 17:12:50 2019 +0800
52
53 toBeCancelled
54
55 commit bb97428f91c5e439415bd4b6b48761ef2f69f017 (origin/master, origin/HEAD)
56 Author: sunruize02 <sunruize02@meituan.com>
57 Date: Fri Mar 15 16:20:21 2019 +0800
58
59 com_test_left
60
61 commit 23636d327af959fe1df0106994935747692c654e
62 Author: sun <754153179@qq.com>
63 Date: Sat Aug 4 20:17:12 2018 +0800
64
65 my_resume_file
66 admindeMacBook-Pro:my_resume sunruize$ git reset --hard
67 bb97428f91c5e439415bd4b6b48761ef2f69f017
68 HEAD is now at bb97428 com_test_left
69 admindeMacBook-Pro:my_resume sunruize$ git log
70 commit bb97428f91c5e439415bd4b6b48761ef2f69f017 (HEAD -> master, origin/master,
71 origin/HEAD)
72 Author: sunruize02 <sunruize02@meituan.com>
73 Date: Fri Mar 15 16:20:21 2019 +0800
74
75 com_test_left
76
77 commit 23636d327af959fe1df0106994935747692c654e
78 Author: sun <754153179@qq.com>
79 Date: Sat Aug 4 20:17:12 2018 +0800
80
81 my_resume_file
```

```
80 admindeMacBook-Pro:my_resume sunruize$ git status
81 On branch master
82 Your branch is up to date with 'origin/master'.
83 nothing to commit, working tree clean
```

## 储藏——git stash

### ^ 代码块

```
1 #部分文件暂存之后还不想提交，需要切换分支工作，可以将文件储藏起来
2 admindeMacBook-Pro:my_resume sunruize$ git status
3 On branch iss53
4 Your branch is based on 'origin/hotfix', but the upstream is gone.
5 (use "git branch --unset-upstream" to fixup)
6 Changes to be committed:
7 (use "git reset HEAD <file>..." to unstage)
8
9 new file:   stash.txt
10
11 # 执行git stash储藏文件
12 admindeMacBook-Pro:my_resume sunruize$ git stash
13 Saved working directory and index state WIP on iss53: cc87b24 I
14 admindeMacBook-Pro:my_resume sunruize$ git status
15 On branch iss53
16 Your branch is based on 'origin/hotfix', but the upstream is gone.
17 (use "git branch --unset-upstream" to fixup)
18 nothing to commit, working tree clean
19 #查看储藏的文件列表
20 $ git stash list
21 stash@{0}: WIP on master: 049d078 added the index file
22 stash@{1}: WIP on master: c264051 Revert "added file_size"
23 stash@{2}: WIP on master: 21d80a5 added number to log
24
25 #重新应用储藏，如果有多次储藏可以使用git stash apply stash@{2}来指定
26 #应用储藏文件，堆栈中还会存在，可以运行 git stash drop 加上将要移除的储藏的名字来移除它：
27 admindeMacBook-Pro:my_resume sunruize$ git stash drop
28 Dropped refs/stash@{0} (ce313523ddb58192399c2d64bf50f7c4ad7d1033)
29 admindeMacBook-Pro:my_resume sunruize$ git stash
30 No local changes to save
31 admindeMacBook-Pro:my_resume sunruize$ git stash list
32 stash@{0}: WIP on iss53: cc87b24 i
```

35 更便捷的方法git stash pop来应用并从堆栈中移除

36

## 清理工作目录——git clean

### ^ 代码块

```
1 admindeMacBook-Pro:resetTest sunruize$ git clean
2 fatal: clean.requireForce defaults to true and neither -i, -n, nor -f given; re
  to clean
3
4 # -i 以交互模式执行clean命令
5 admindeMacBook-Pro:resetTest sunruize$ git clean -i
6 Would remove the following item:
7     file123.txt
8 *** Commands ***
9     1: clean                2: filter by pattern      3: select by numbers
10    4: ask each             5: quit                  6: help
11 What now>
12
13 # -f 强制执行, 确定移除
14 admindeMacBook-Pro:resetTest sunruize$ git clean -f
15 Removing file123.txt
16
17 # -n 提示clean命令将要做什么
18 admindeMacBook-Pro:resetTest sunruize$ git clean -d -n
19 Would remove file2.txt
```

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