git checkout -- fileNmae作用:丢弃掉相对于暂存区中最后一次添加的文件内容所做的变更

```
Administrator@MS-20170722ZJNZ MINGW64 /f/mygit (master)
$ git status
On branch master
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git checkout -- <file>..." to discard changes in working directory)
no changes added to commit (use "git add" and/or "git commit -a")
Administrator@MS-20170722ZJNZ MINGW64 /f/mygit (master)
$ cat test.txt
hello
world
hello world
hello Java
hello python
Administrator@MS-20170722ZJNZ MINGW64 /f/mygit (master)
$ git checkout -- test.txt
Administrator@MS-20170722ZJNZ MINGW64 /f/mygit (master)
$ git status
On branch master
nothing to commit, working tree clean
Administrator@MS-20170722ZJNZ MINGW64 /f/mygit (master)
$ cat test.txt
hello
world
hello world
hello Java
Administrator@MS-20170722ZJNZ MINGW64 /f/mygit (master)
```

修改之后如果将修改的内容提交到暂存区,则不能使用git checkout -- fileName丢弃变更

```
\dministrator@MS-20170722ZJNZ MINGW64 /f/mygit (master)
$ cat test.txt
hello
world
hello world
hello Java
hello python
Administrator@MS-20170722ZJNZ MINGW64 /f/mygit (master)
$ git status
On branch master
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git checkout -- <file>..." to discard changes in working directory)
        modified: test.txt
no changes added to commit (use "git add" and/or "git commit -a")
Administrator@MS-20170722ZJNZ MINGW64 /f/mygit (master)
$ git add .
Administrator@MS-20170722ZJNZ MINGW64 /f/mygit (master)
$ git status
On branch master
Changes to be committed:
  (use "git reset HEAD <file>..." to unstage)
Administrator@MS-20170722ZJNZ MINGW64 /f/mygit (master)
$ git checkout -- test.txt
Administrator@MS-20170722ZJNZ MINGW64 /f/mygit (master)
$ git status
On branch master
Changes to be committed:
  (use "git reset HEAD <file>..." to unstage)
Administrator@MS-20170722ZJNZ MINGW64 /f/mygit (master)
$ cat test.txt
hello
world
hello world
hello Java
hello python
Administrator@MS-20170722ZJNZ MINGW64 /f/mygit (master)
```

```
Administrator@MS-20170722ZJNZ MINGW64 /f/mygit (master)
$ cat test.txt
hello
world
hello world
hello Java
hello python
Administrator@MS-20170722ZJNZ MINGW64 /f/mygit (master)
$ git status
On branch master
Changes to be committed:
  (use "git reset HEAD <file>..." to unstage)
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git checkout -- <file>..." to discard changes in working directory)
Administrator@MS-20170722ZJNZ MINGW64 /f/mygit (master)
$ cat test.txt
hello
world
hello world
hello Java
hello python
hello scala
Administrator@MS-20170722ZJNZ MINGW64 /f/mygit (master)
$ git checkout -- test.txt
Administrator@MS-20170722ZJNZ MINGW64 /f/mygit (master)
$ git status
On branch master
Changes to be committed:
  (use "git reset HEAD <file>..." to unstage)
Administrator@MS-20170722ZJNZ MINGW64 /f/mygit (master)
$ cat test.txt
hello
world
hello world
hello Java
hello python
Administrator@MS-20170722ZJNZ MINGW64 /f/mygit (master)
```

git reset HEAD fileNmae作用:将之前添加到暂存区(stage, index)的内容从暂存区移除到工作区 git reset HEAD fileName将提交到暂存区的变更从暂存区中移出,此时可以使用git checkout -- fileName

## 丢**弃**变**更**

```
Administrator@MS-20170722ZJNZ MINGW64 /f/mygit (master)
$ git status
On branch master
Changes to be committed:
  (use "git reset HEAD <file>..." to unstage)
Administrator@MS-20170722ZJNZ MINGW64 /f/mygit (master)
$ cat test.txt
hello.
world
hello world
hello Java
hello python
Administrator@MS-20170722ZJNZ MINGW64 /f/mygit (master)
$ git reset HEAD test.txt
Unstaged changes after reset:
        test.txt
Administrator@MS-20170722ZJNZ MINGW64 /f/mygit (master)
$ git status
On branch master
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git checkout -- <file>..." to discard changes in working directory)
no changes added to commit (use "git add" and/or "git commit -a")
Administrator@MS-20170722ZJNZ MINGW64 /f/mygit (master)
$ git checkout -- test.txt
Administrator@MS-20170722ZJNZ MINGW64 /f/mygit (master)
$ git status
On branch master
nothing to commit, working tree clean
Administrator@MS-20170722ZJNZ MINGW64 /f/mygit (master)
$ cat test.txt
hello
world
hello world
hello Java
                    7072271N7 MTNGW64 /f/mygit (maste
```

git stash将当前在分支上一切的修改状态临时保存起来,在未来的某一时刻就可以恢复出来,git stash list将当前所有的保存 状态列出来,git stash pop将最新的一次保存状态恢复出来,同时将保存的临时状态给删除掉,git stash apply将之前保存的 状态恢复过来,但是不删除stash保存的临时状态

## 保存现场工作

- 保存现场
  - o git stash
  - git stash list
- 恢复现场
  - 。 git stash apply (stash内容并不删除,需要通过git stash drop stash@{0}手动删除)
  - o git stash pop (恢复的同时也将stash内容删除)
  - o git stash apply stash@{0}