https://www.jianshu.com/p/55b6720264ee

git pull origin <remote_branch>:</remote_branch>	
<local_branch></local_branch>	将远程分支拉取到指定本地分支
git pull origin <remote_branch></remote_branch>	将指定远程分支同步到当前本地分支
	拉取所有远程分支的新版本"坐标",并同步当前
git pull	分支的本地代码(具体根据关联分支而定)

工作中,我们会用到git pull来从远程仓库"同步"代码,通常有三种方式;

git pull origin <remote_branch>: <local_branch>
git pull origin <remote_branch>
git pull

这三种用法充分诠释了什么是简即繁,繁即简;看上去简单的,往往背后蕴藏玄机;

测试环境:

本地分支: master和dev

远程分支: master和dev

\$ git branch -a

* dev

master

remotes/origin/HEAD -> origin/master

remotes/origin/dev

remotes/origin/master

1.git pull origin <remote_branch>: <local branch>

这种用法写起来最为繁琐,但最好理解:

场景: 当本地的当前分支不是local branch;

作用: 将远程分支拉取到指定本地分支;

例如:当前分支是dev,但是你想把远程master"同步"到本地master,但又不想使

checkout切换到master分支;

这时你就可以使用git pull origin master: master

zhangchangzhi@ZBXXXX /e/02.Workspace-test/gitTest (dev)

\$ git pull origin master:master

From https://github.com/jinxintang/gitTest

a09fdc4..941758f master -> master

Already up-to-date.

从上述代码可以看到,我当前分支为**dev**,但执行"同步"操作的却是在master分支;

2.git pull origin <remote branch>

有了上面的例子,这种使用方法的场景和作用就好理解了:

场景: 在当前分支上进行同步操作;

作用:将指定远程分支同步到当前本地分支;

废话不说,上代码:

zhangchangzhi@ZBXXX /e/02.Workspace-test/gitTest (dev)

\$ git pull origin master

From https://github.com/jinxintang/gitTest

* branch master \rightarrow FETCH_HEAD

Already up-to-date.

把远程master分支同步到HEAD分支 (HEAD分支指向当前位置);

3.git pull

这种写法最简单,也最常用,但是隐含的知识也是最多的;

场景:本地分支已经和想要拉取的分支建立了"关联"关系;

作用: 拉取所有远程分支的新版本"坐标", 并同步当前分支的本地代码(具体根据关联分支

而定)

什么是"关联"分支?

首先我们先使用git branch -vv 查看一下目前分支的 "关联" 情况;

\$ git branch -vv

https://github.com/jinxintang/gitTest into dev

master a09fdc4 [origin/master] create pull

```
可以看到我们的本地的dev关联的是远程(origin)的dev,本地的master关联的是远程(origin)
的master;
那么这种关联是如何建立、是否可以修改呢;
配置本地分支与远程分支的三种方法:
1.检出时建立关联关系: git checkout -b dev origin/dev
当我们检查时, qit会自动为我们检出的分支和远程分支建立关联关系;
2.提交时配置关联关系: git push -u origin <remote branch>或git push --set-upstream
origin <remote_branch>
zhangchangzhi@ZB-PFOSB6DQ MINGW64 /e/02. Workspace-test/gitTest (dev zcz)
$ git branch -vv
* dev zcz 3b7001a [origin/dev] cm
 master a09fdc4 [origin/master] create pull
zhangchangzhi@ZB-PFOSB6DQ MINGW64 /e/02. Workspace-test/gitTest (dev zcz)
$ git push -u origin dev zcz
Everything up-to-date
Branch dev zcz set up to track remote branch dev zcz from origin.
zhangchangzhi@ZB-PFOSB6DQ MINGW64 /e/02.Workspace-test/gitTest (dev_zcz)
$ git branch -vv
* dev zcz 3b7001a [origin/dev zcz] cm
 master a09fdc4 [origin/master] create pull
通过上面的例子可以看到push前dev zcz关联的是origin/dev,执行push -u 后管理分支改为
origin/dev zcz
注:默认配置下,提交时本地分支需和远程分支同名;
3.更改git/config文件: git branch --set-upstream-to=<remote branch>
zhangchangzhi@ZB-PFOSB6DQ MINGW64 /e/02.Workspace-test/gitTest (dev zcz)
$ git branch --set-upstream-to=origin/zcz
Branch dev zcz set up to track local branch origin/zcz.
zhangchangzhi@ZB-PF0SB6DQ MINGW64 /e/02.Workspace-test/gitTest (dev zcz)
$ git branch -vv
```

```
* dev zcz 3b7001a [origin/zcz] cm
 master
          a09fdc4 [origin/master] create pull
 origin/zcz 3b7001a [dev zcz] cm
无论使用上述那种方法,本地分支和远程分支的"关联"最终都会写到config文件;
zhangchangzhi@ZB-PFOSB6DQ MINGW64 /e/02. Workspace-test/gitTest/.git (GIT DIR!)
$ cat config
[core]
      repository format version = 0
      filemode = false
      bare = false
       logallrefundates = true
       symlinks = false
      ignorecase = true
[remote "origin"]
      url = https://github.com/jinxintang/gitTest.git
      fetch = +refs/heads/*:refs/remotes/origin/*
[branch "master"]
      remote = origin
      merge = refs/heads/master
[branch "dev zcz"]
      remote = .
      merge = refs/heads/origin/zcz
[branch "origin/zcz"]
      remote = .
      merge = refs/heads/dev zcz
注:本项目的配置信息存放目录:项目所在目录/.git/config
看完这三种配置关联分支的方法, 想必大家已经对"关联分支"有了一定了解;
   关联分支: 在git中表现为upstream,无论是使用push -u 或是 git branch --set-
   upstream-to方法,均会将这种对应关系写入.git/config配置文件,如果一个本地分支没
   有关联分支,则无法执行 git push 或 git pull指令;
没有"关联"分支的情况下,使用push会先让你设置一个upstream branch.
```

zhangchangzhi@ZB-PF0SB6DQ MINGW64 /e/02. Workspace-test/gitTest (dev no upstream)

\$ git branch -vv

* dev_no_upstream 3b7001a cm

dev_zcz 3b7001a [origin/zcz] cm

master a09fdc4 [origin/master] create pull

origin/zcz 3b7001a [dev zcz] cm

 $zhangchangzhi@ZB-PF0SB6DQ\ MINGW64\ /e/02.\ Workspace-test/gitTest\ (dev_no_upstream)$

\$ git push

fatal: The current branch dev_no_upstream has no upstream branch.

To push the current branch and set the remote as upstream, use

git push --set-upstream origin dev_no_upstream

那么建立了一个关联分支,是否就一定能使用git push呢?请阅读<git 实践(二)push的使用>