

远程分支

一个项目是由多人协作分支，一般dev下的feature分支开发，最终会合并到dev分支上。一般dev分支也会到远程。

把dev分支推到远程

```
# liyang @ liyangdeMacBook-Pro in ~/Desktop/project on git:dev x [22:27:54]
$ git add 1.txt

# liyang @ liyangdeMacBook-Pro in ~/Desktop/project on git:dev x [22:27:57]
$ git commit -m '1.txt加东西'
[dev 1e7e53b] 1.txt加东西
Committer: 李阳 <liyang@liyangdeMacBook-Pro.local>
Your name and email address were configured automatically based
on your username and hostname. Please check that they are accurate.
You can suppress this message by setting them explicitly. Run the
following command and follow the instructions in your editor to edit
your configuration file:

    git config --global --edit

After doing this, you may fix the identity used for this commit with:

    git commit --amend --reset-author

1 file changed, 1 insertion(+)

# liyang @ liyangdeMacBook-Pro in ~/Desktop/project on git:dev o [22:28:09]
$ git push origin dev
Enumerating objects: 11, done.
Counting objects: 100% (11/11), done.
Delta compression using up to 4 threads
Compressing objects: 100% (6/6), done.
Writing objects: 100% (9/9), 909 bytes | 909.00 KiB/s, done.
Total 9 (delta 2), reused 0 (delta 0)
To git.coding.net:xiaoxiaoyuan/project.git
 * [new branch]      dev -> dev

# liyang @ liyangdeMacBook-Pro in ~/Desktop/project on git:dev o [22:28:16]
$
```

另一名开发者克隆项目

```
# liyang @ liyangdeMacBook-Pro in ~/Desktop/另一个开发者 [22:35:13]
$ git clone git@git.coding.net:xiaoxiaoyuan/project.git
Cloning into 'project'...
remote: Enumerating objects: 30, done.
remote: Counting objects: 100% (30/30), done.
remote: Compressing objects: 100% (18/18), done.
remote: Total 30 (delta 9), reused 0 (delta 0)
Receiving objects: 100% (30/30), done.
Resolving deltas: 100% (9/9), done.
```

创建dev分支并关联远程dev分支

```
# liyang @ liyangdeMacBook-Pro in ~/Desktop/另一个开发者/project on git:master o [22:35:19]
$ git checkout -b dev origin/dev
Branch 'dev' set up to track remote branch 'dev' from 'origin'.
Switched to a new branch 'dev'

# liyang @ liyangdeMacBook-Pro in ~/Desktop/另一个开发者/project on git:dev o [22:35:27]
$
```

在1.txt加点内容，并把内容退到远程dev分支上去

```

# liyang @ liyangdeMacBook-Pro in ~/Desktop/另一个开发者/project on git:dev o [22:35:27]
$ vi 1.txt

# liyang @ liyangdeMacBook-Pro in ~/Desktop/另一个开发者/project on git:dev x [22:36:45]
$ cat 1.txt
这是一个Git测试
这是修改内容
我又修改了内容
这是我再dev分支上加的内容
我再dev上修改内容了哈哈，
我正在修改内容,master突然出了一个紧急bug
我是另一名开发者开发了这个内容

# liyang @ liyangdeMacBook-Pro in ~/Desktop/另一个开发者/project on git:dev x [22:36:51]
$ git add .

# liyang @ liyangdeMacBook-Pro in ~/Desktop/另一个开发者/project on git:dev x [22:36:58]
$ git commit -m '我是另一名开发者加了最后一行内容'
[dev bfb27fa] 我是另一名开发者加了最后一行内容
Committer: 李阳 <liyang@liyangdeMacBook-Pro.local>
Your name and email address were configured automatically based
on your username and hostname. Please check that they are accurate.
You can suppress this message by setting them explicitly. Run the
following command and follow the instructions in your editor to edit
your configuration file:

    git config --global --edit

After doing this, you may fix the identity used for this commit with:

    git commit --amend --reset-author

1 file changed, 1 insertion(+)

# liyang @ liyangdeMacBook-Pro in ~/Desktop/另一个开发者/project on git:dev o [22:37:16]
$ git push origin dev
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 4 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 379 bytes | 379.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0)
To git.coding.net:xiaoxiaoyuan/project.git
 1e7e53b..bfb27fa dev -> dev

# liyang @ liyangdeMacBook-Pro in ~/Desktop/另一个开发者/project on git:dev o [22:37:23]

```

我也在dev分支开发，并推到远程



为什么会推不上去呢，因为另一名已经修改了dev分支内容，并且推到远程，这个时候我也修改了dev分支，也想推到远程，因为同时修改了一个文件。所以不让推。

所以我们要先把远程的dev分支更新下来

```

# liyang @ liyangdeMacBook-Pro in ~/Desktop/project on git:dev o [22:39:45] C:1
$ git pull
remote: Enumerating objects: 5, done.
remote: Counting objects: 100% (5/5), done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 3 (delta 1), reused 0 (delta 0)
Unpacking objects: 100% (3/3), done.
From git.coding.net:xiaoxiaoyuan/project
 1e7e53b..bfb27fa dev -> origin/dev
There is no tracking information for the current branch.
Please specify which branch you want to merge with.
See git-pull(1) for details.

    git pull <remote> <branch>

If you wish to set tracking information for this branch you can do so with:

    git branch --set-upstream-to=origin/<branch> dev

# liyang @ liyangdeMacBook-Pro in ~/Desktop/project on git:dev o [22:40:30] C:1

```

发现也不行，原因是我的本地dev分支并没有跟远程的dev分支关联起来，要先关联起来。

```
git branch --set-upstream-to=origin/<branch> dev
```

```

# liyang @ liyangdeMacBook-Pro in ~/Desktop/project on git:dev o [22:40:30] C:1
$ git branch --set-upstream-to=origin/dev
Branch 'dev' set up to track remote branch 'dev' from 'origin'.

# liyang @ liyangdeMacBook-Pro in ~/Desktop/project on git:dev o [22:43:32]
$ git pull
Auto-merging 1.txt
CONFLICT (content): Merge conflict in 1.txt
Automatic merge failed; fix conflicts and then commit the result.

# liyang @ liyangdeMacBook-Pro in ~/Desktop/project on git:dev x [22:44:09] C:1
$

```

这个时候我pull下来，发现可以下来，但是要解决冲突，因为另一名开发者也修改了dev分支。

```

# liyang @ liyangdeMacBook-Pro in ~/Desktop/project on git:dev x [22:44:52]
$ cat 1.txt
这是一个Git测试
这是修改内容
我又修改了内容
这是我再dev分支上加的内容
我再dev上修改内容了哈哈。
我正在修改内容,master突然出了一个紧急bug
<<<<<< HEAD
我也修改内容
-----
我是另一名开发者开发了该内容
>>>>>> bfb27fa..be6b6c3 3ee3cf4be5e436453

# liyang @ liyangdeMacBook-Pro in ~/Desktop/project on git:dev x [22:44:54]
$ vi 1.txt

# liyang @ liyangdeMacBook-Pro in ~/Desktop/project on git:dev x [22:44:54]
$ cat 1.txt
这是一个Git测试
这是修改内容
我又修改了内容
这是我再dev分支上加的内容
我再dev上修改内容了哈哈。
我正在修改内容,master突然出了一个紧急bug
我也修改内容
我是另一名开发者开发了该内容

# liyang @ liyangdeMacBook-Pro in ~/Desktop/project on git:dev x [22:44:58]
$ git add .

# liyang @ liyangdeMacBook-Pro in ~/Desktop/project on git:dev x [22:44:58]
$ git commit -m "提交"
[dev be6b6c3] 提交
Committer: 李阳 <liyang@liyangdeMacBook-Pro.local>
Your name and email address were configured automatically based
on your username and hostname. Please check that they are accurate.
You can suppress this message by setting them explicitly. Run the
following command and follow the instructions in your editor to edit
your configuration file:
    git config --global --edit
After doing this, you may fix the identity used for this commit with:
    git commit --amend --reset-author

# liyang @ liyangdeMacBook-Pro in ~/Desktop/project on git:dev o [22:45:22]
$ git push origin dev
Enumerating objects: 10, done.
Counting objects: 100% (10/10), done.
Delta compression using up to 4 threads
Compressing objects: 100% (4/4), done.
Writing objects: 100% (6/6), 587 bytes | 587.00 KiB/s, done.
Total 6 (delta 2), reused 0 (delta 0)
To git.coding.net:xiaoxiaoyuan/project
 bfb27fa..be6b6c3 dev -> dev

# liyang @ liyangdeMacBook-Pro in ~/Desktop/project on git:dev o [22:45:56]

```

当另一名开发者要继续开发的时候，首先进行pull一下操作

```

# liyang @ liyangdeMacBook-Pro in ~/Desktop/另一个开发者/project on git:dev o [22:46:33]
$ cat 1.txt
这是一个Git测试
这是修改内容
我又修改了内容
这是我再dev分支上加的内容
我再dev上修改内容了哈哈。
我正在修改内容,master突然出了一个紧急bug
我是另一名开发者开发了该内容

# liyang @ liyangdeMacBook-Pro in ~/Desktop/另一个开发者/project on git:dev o [22:46:36]
$ git pull
remote: Enumerating objects: 10, done.
remote: Counting objects: 100% (10/10), done.
remote: Compressing objects: 100% (4/4), done.
Unpacking objects: 100% (6/6), done.
remote: Total 6 (delta 2), reused 0 (delta 0)
From git.coding.net:xiaoxiaoyuan/project
 bfb27fa..be6b6c3 dev -> origin/dev
Updating bfb27fa..be6b6c3
Fast-forward
 1.txt | 1 +
 1 file changed, 1 insertion(+)

# liyang @ liyangdeMacBook-Pro in ~/Desktop/另一个开发者/project on git:dev o [22:46:40]
$ cat 1.txt
这是一个Git测试
这是修改内容
我又修改了内容
这是我再dev分支上加的内容
我再dev上修改内容了哈哈。
我正在修改内容,master突然出了一个紧急bug
我也修改内容
我是另一名开发者开发了该内容

# liyang @ liyangdeMacBook-Pro in ~/Desktop/另一个开发者/project on git:dev o [22:46:43]
$

```