

## 冲突解决

如果我再dev分支修改了1.txt，再master分支也修改了1.txt，就会产生冲突。这个冲突需要我们手动解决，当然了master分支一般不允许干活，这个分支的代码是纯净版的。

```
# liyang @ liyangdeMacBook-Pro in ~/Desktop/project on git:dev x [21:37:55]
$ vi 1.txt

# liyang @ liyangdeMacBook-Pro in ~/Desktop/project on git:dev x [21:37:59]
$ 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，

# liyang @ liyangdeMacBook-Pro in ~/Desktop/project on git:dev x [21:38:01]
$ git add 1.txt

# liyang @ liyangdeMacBook-Pro in ~/Desktop/project on git:dev x [21:38:07]
$ git commit -m '我再dev加了内容'
[dev 9ed06c6] 我再dev加了内容
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(+)
```

我再dev分支上修改了1.txt，并提交了内容，接下来我切换到master分支也修改1.txt

```
# liyang @ liyangdeMacBook-Pro in ~/Desktop/project on git:dev o [21:39:30]
$ git checkout master
Switched to branch 'master'
Your branch is ahead of 'origin/master' by 1 commit.
  (use "git push" to publish your local commits)

# liyang @ liyangdeMacBook-Pro in ~/Desktop/project on git:master x [21:39:49]
$ vi 1.txt

# liyang @ liyangdeMacBook-Pro in ~/Desktop/project on git:master x [21:40:05]
$ 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master分支修改了内容哈哈

# liyang @ liyangdeMacBook-Pro in ~/Desktop/project on git:master x [21:40:09]
$ git add 1.txt

# liyang @ liyangdeMacBook-Pro in ~/Desktop/project on git:master x [21:40:13]
$ git commit -m '我再master分支修改内容'
[master 89ac617] 我再master分支修改内容
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(+)
```

## 合并分支

```
git merge -m '提示' branch
git merge --no-ff -m '提示' branch    #--no-ff 保存你之前的分支历史
```

这个时候我在master分支把dev分支的内容合并过来。

```
# liyang @ liyangdeMacBook-Pro in ~/Desktop/project on git:master o [21:41:16]
$ git merge dev
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:master x [21:41:22] C:1
$ 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
<<<<<< HEAD
=====
我再master分支修改了内容哈哈
=====
我再dev上修改内容了哈哈。
>>>>>> dev

# liyang @ liyangdeMacBook-Pro in ~/Desktop/project on git:master x [21:41:27]
$ git status
On branch master
Your branch is ahead of 'origin/master' by 2 commits.
(use "git push" to publish your local commits)

You have unmerged paths.
(fix conflicts and run "git commit")
(use "git merge --abort" to abort the merge)

Unmerged paths:
  (use "git add <file>..." to mark resolution)

        both modified:   1.txt

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

# liyang @ liyangdeMacBook-Pro in ~/Desktop/project on git:master x [21:41:36]
$
```

这个时候就需要我们手动修改，然后在提交。

```
# liyang @ liyangdeMacBook-Pro in ~/Desktop/project on git:master x [21:41:36]
$ vi 1.txt

# liyang @ liyangdeMacBook-Pro in ~/Desktop/project on git:master x [21:48:14]
$ 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master分支修改了内容哈哈
我再dev上修改内容了哈哈。

# liyang @ liyangdeMacBook-Pro in ~/Desktop/project on git:master x [21:48:16]
$ git status
On branch master
Your branch is ahead of 'origin/master' by 2 commits.
(use "git push" to publish your local commits)

You have unmerged paths.
(fix conflicts and run "git commit")
(use "git merge --abort" to abort the merge)

Unmerged paths:
  (use "git add <file>..." to mark resolution)

        both modified:   1.txt

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

# liyang @ liyangdeMacBook-Pro in ~/Desktop/project on git:master x [21:48:20]
$ git add 1.txt

# liyang @ liyangdeMacBook-Pro in ~/Desktop/project on git:master x [21:48:25]
$ git commit -m '合并代码'
[master 1a83d47] 合并代码
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:master o [21:48:37]
$
```