```
sulingdeMBP:git_learning suling$ git commit -am'Add mv and nm commands'
                                                                                                                             [feature/add_git_commands 88e08ed] Add mv and rm commands
                                                                                                                            1 file changed, 2 insertions(+), 2 deletions(-) sulingdeMBP:git_learning suling$ git push github
                                                                                                                             o github.com:git201901/git_learning.git
                                                                                                                                                  feature/add_git_commands -> feature/add_git_commands (fetch first)
                                                                                                                              int: Updates were rejected because the remote contains work that you do
                                                                                                                            hint: optates were rejected because the remote contains work that you do
hint: not have locally. This is usually caused by another repository pushing
hint: to the same ref. You may want to first integrate the remote changes
hint: (e.g., 'git pull ...') before pushing again.
hint: See the 'Note about fast-forwards' in 'git push --help' for details.
sulingdeMBP:git_learning suling$ git merge github/feature/add_git_commands
                                                                                                                             Already up to date.
                                                                                                                            sulingdeMBP:git_learning suling$ git pull
                                                                                                                            remote: Enumerating objects: 5, done.
remote: Counting objects: 100% (5/5), done.
                                                                                                                           remote: Compressing objects: 100% (1/1), done.
remote: Total 3 (delta 2), reused 3 (delta 2), pack-reused 0
Unpacking objects: 100% (3/3), done.
From github.com:git201901/git_learning
                                                                                                                           d651af5..cb78922 feature/add_git_commands -> github/feature/add_git_commands

Auto-merging index.html

CONFLICT (content): Merge conflict in index.html

Automatic merge failed; fix conflicts and then commit the result.

sulingdeMBP:git_learning suling$
                                                                                                                                               vi index.html 编辑想要的内容保存退出
                                                                                                                                             <div class="panel":</pre>
                                                                                                                                    # HEAD
                                    ■ 不同人修改 了同文件的同一区域如何处理?
                                                                                                                                      cb789228fdb32da52e80fa45b6525b2442b21f7f
                                                                                                                                            如果想要继续提交
                                                                                                                                           不想要就用git merge --abort 取消merge
                                                                                                                            sulingdeMBP:git_learning suling$ vi index.html
                                                                                                                            sulingdeMBP:git_learning suling$ git status
On branch feature/add_git_commands
                                                                                                                            Your branch and 'github/feature/add_git_commands' have diverged,
                                                                                                                            and have 1 and 1 different commits each, respectively.
                                                                                                                              (use "git pull" to merge the remote branch into yours)
                                                                                                                            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)
                                                                                                                            no changes added to commit (use "git add" and/or "git commit -a") sulingdeMBP:git_learning suling$
                                                                                                                                                          提交后用gitk 查看
                                                                                                                            sulingdeMBP:git_learning suling$ git commit -am'Resolved conflict by hand with 4 git commands
[feature/add_git_commands 54d5051] Resolved conflict by hand with 4 git commands
                                                                                                                            sulingdeMBP:git_learning suling$ git status
                                                                                                                            On branch feature/add_git_commands
                                                                                                                             Your branch is ahead of 'github/feature/add_git_commands' by 2 commits.
                                                                                                                              (use "git push" to publish your local commits)
                                                                                                                             nothing to commit, working tree clean
                                                                                                                            sulingdeMBP:git_learning suling$ gitk --all
                                                                                                                                                                 git mv index.html index.htm
                                                                                                                       第一个人先修改文件名
Git 36-40
                                                                                                                                                                               git commit -am "improve index head"
                                                                                                                       第二个人修改index.html 文件内容
                                    2 同时变更了文件名和文件内容如何处理?
                                                                                                                       第一个人先提交 推送远端
                                                                                                                                                                                     git能感知文件名发生变化 只需要从远端pull 下来即可
                                                                                                                       第二个人再提交发生 non-fast-forward
                                                                                                                                            git mv index.html index1.htm
                                                                                                   第一个人先修改文件名
                                                                                                                                                        git mv index.html index2.htm
                                                                                                   第二个人接着修改文件名并提交
                                                                                                                                                        git push github
                                                                                                                                                                              (delta 1), reused 2 (delta 1), pack-reused 0
:s: 100% (2/2), done.
                                                                                                                                                                                  用git命令删除原有的index.html
                                                                                                                                                                                   git rm index.htm
                                                                                                                                                                                   选用index1.html 作为变更后的文件名
                                                                                                                                                                                    git add index1.htm
                                                                                                                                                                                    git 删除 index2.htm
                                                                                                                                                                                    git rm index2.htm
                                                                                                                                                                                    git commit -m "Decide to mv index to index1"
                                    3 把同一文件改成了不同的文
                                                                                                                                                                                    接着提交远端
                                        件名如何处理?
                                                                                                                                                                     (fix conflicts and run "git commit")
                                                                                                                                                                     (use "git merge --abort" to abort the merge)
                                                                                                                                                                     (use "git add/rm <file>..." as appropriate to mark resolution)
                                                                                                   第一个接着再提交 发生non-fast-forward
                                                                                                                                                                    no changes added to commit (use "git add" and/or "git commit -a")
                                                                                                                                                                    sulingdeMacBook-Pro:git_learning_02 suling$ git rm index.htm
                                                                                                                                                                    ndex.htm: needs merge
                                                                                                                                                                     n 'index.htm'
                                                                                                                                                                    sulingdeMacBook-Pro:git_learning_02 suling$ git status
                                                                                                                                                                    On branch feature/add_git_commands
                                                                                                                                                                    'our branch and 'origin/feature/add_git_commands' have diverged,
                                                                                                                                                                     nd have 1 and 1 different commits each, respectively.
                                                                                                                                                                     (use "git pull" to merge the remote branch into yours)
                                                                                                                                                                    You have unmerged paths.
                                                                                                                                                                     (fix conflicts and run "git commit")
(use "git merge --abort" to abort the merge)
                                                                                                                                                                     merged paths:
                                                                                                                                                                     (use "git add <file>..." to mark resolution)
                                                                                                            先回到过去 git reset --hard b3f390c
                                    4 禁止向集成分支执行 push -f 操作
                                                                                                            git push -f origin feature/add_git_commands
                                                                                                             变更历史分支内容导致其他同事跟集成分支上的差异很大会很麻烦有时候涉及到rebase的话会一个一个commit去改进会很上火
                                    5 禁止向集成分支执行变更历史操作
                                                                                                             最佳做法 在现有的分支上去增加commit 让代码看起来更好
```