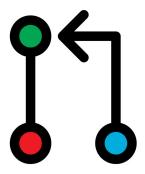
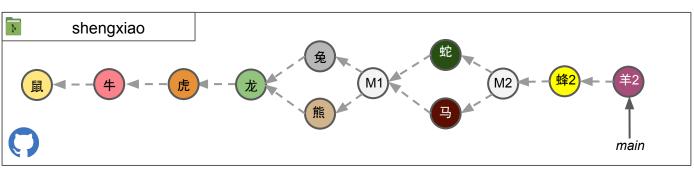
第11章 合并请求 (Pull Requests)

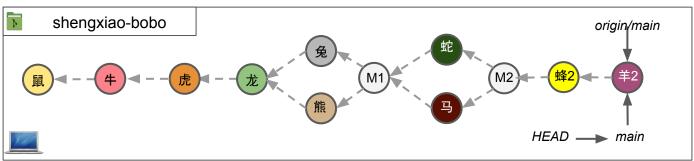


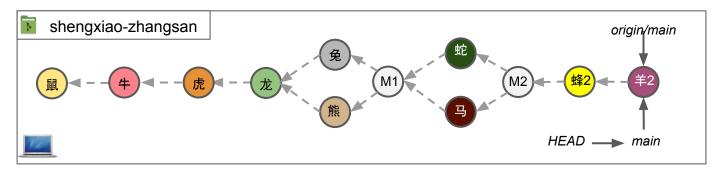
内容大纲

- 演示合并请求(Pull Requests)
 - 一种协作开发方式
 - 通过远程仓库,将一个分支的变更集成到 另外一个分支
- 穿插介绍定义上游分支的快捷方式





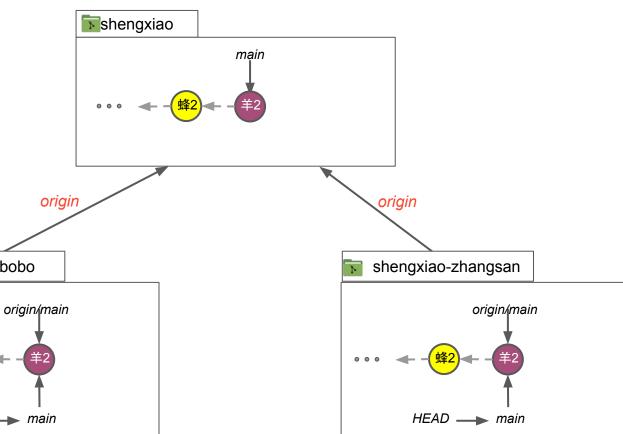




当前视图 origin

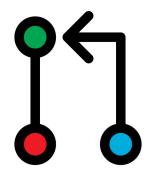
shengxiao-bobo

HEAD → main



Pull Request(合并请求)

- Pull Request(合并请求)是一种在代码托管平台上提交代码的方式 ,方便你将分支上的工作分享给协作者,收集反馈,最终将代码合并 到项目中。
- Pull Request能方便地进行代码审查,促进团队沟通和协作。它具有评论功能,允许协作者对代码的具体行添加评论、回复讨论,帮助更有序地完成代码审核。
- 代码托管平台支持的功能, 非Git支持的功能
 - Github/Bitbucket -> Pull Request
 - GitLab -> merge request
- Pull Request合并支持Merge和Rebase, 缺省是
 Merge(non-fast-forward/explicit merge), 所以中文翻译为合并请求
- 目前主流的企业级Git协作开发方式
- 这里的pull和git pull没有关系



Pull Request流程

- 1. 在本地创建分支
- 2. 在本地分支上工作+提交
- 3. Push推到远程仓库
- 4. 在远程代码托管平台上创建(open) pull request
- 5. 请求评审 + 收集反馈
- 6. 评审通过则合并请求, 否则拒绝
 - a. 合并可能会有冲突, 可以在 远程解决, 建议本地解决
 - b. 企业定制流程, 例如本人不能 approve, 合并后触发CI/CD
- 7. 删除远程分支
- 8. 在本地同步远程仓库(pull拉取合并), 删除本地分支 和远程跟踪分支



波波准备Pull Request场景(shengxiao-bobo)

1. 创建并切换到feature1分支

```
shengxiao-bobo - boboweike@bobos-Mac - ..hengxiao-bobo - -zsh - 53×5

⇒ shengxiao-bobo git:(main) git switch -c feature1

Switched to a new branch 'feature1'

⇒ shengxiao-bobo git:(feature1)
```

2. 添加第九个生肖猴 🐒



3. git add & commit

shengxiao-bobo git:(feature1) x git add 12_shengxiao.txt

⇒ shengxiao-bobo git:(feature1) x git commit -m "猴"

[feature1 86f4fc8] 猴

1 file changed, 1 insertion(+)

⇒ shengxiao-bobo git:(feature1)

shengxiso-bobo-git log-git-less-git log-70×15
commit 86f4fc85a262abc5cd77d780a2c36bcbf54003e2 (HEAD -> feature1)
Author: bobo

bobo@boboweike.cn>
Date: Thu Nov 7 18:34:51 2024 +0800

猴
commit 7bd7bd5d08a5ddbc39053aa121eaf3ab40954a3b (origin/main, main)
Author: bobo

bobo@boboweike.cn>
Date: Tue Nov 5 16:23:18 2024 +0800

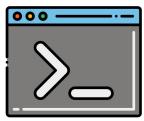
羊
:

git log

shengxiao 当前视图 main origin origin shengxiao-bobo shengxiao-zhangsan origin/main origin/main main feature1 HEAD → main HEAD

定义上游分支的快捷方式

- git branch -u <shortname>/<branch_name>
- git push --set-upstream <shortname> <branch_name>
- git push -u <shortname> <branch_name>



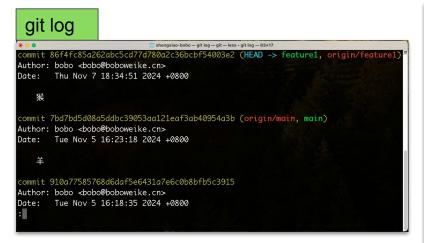
波波推送Push到远程仓库(shengxiao-bobo)

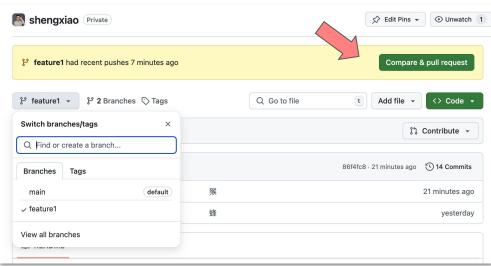






波波推送Push到远程仓库后



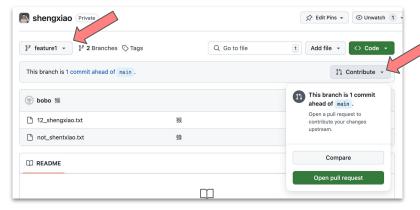


shengxiao 当前视图 main feature1 origin origin shengxiao-bobo shengxiao-zhangsan origin/main origin/feature1 origin/main feature1 main HEAD → main

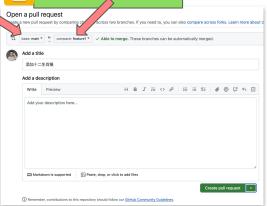
HEAD

波波创建Pull Request

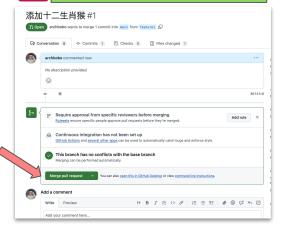
1. Open pull request



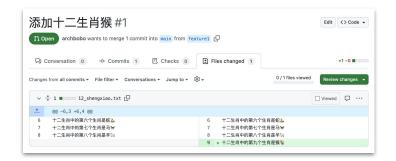
2. add a title

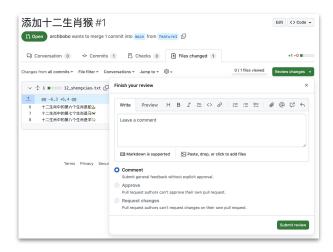


3. Pull request created



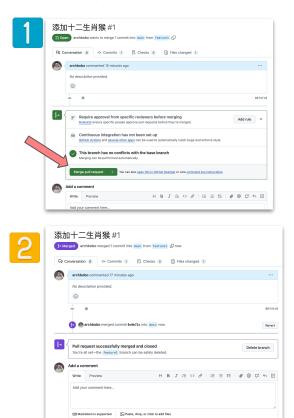
张三Review/Approve Pull Request

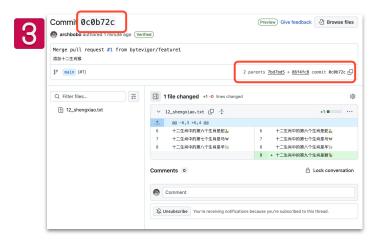


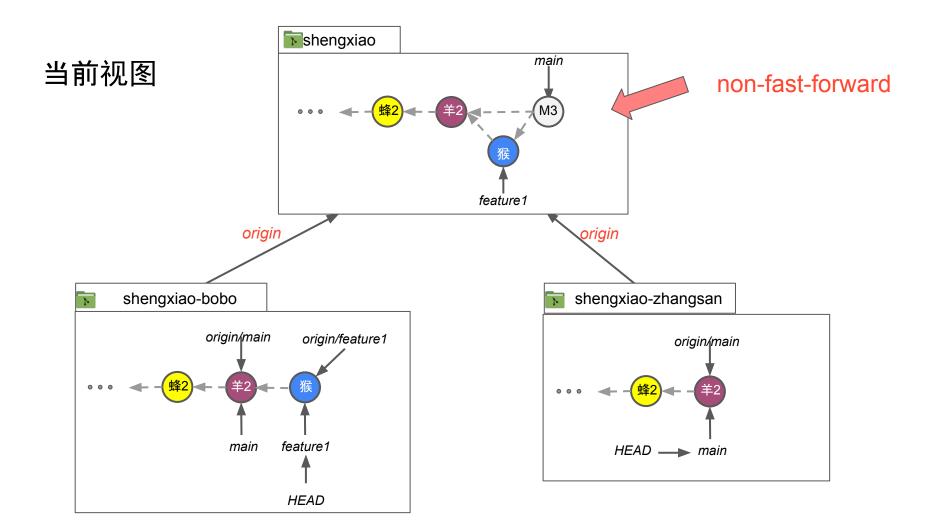


- 张三可以添加评论 (comment)
- 你可以根据评论修改、提交,再push
- 张三也可以拉到本地, 修 改, 提交, 再push
- 张三可以Approve这个 Pull Request

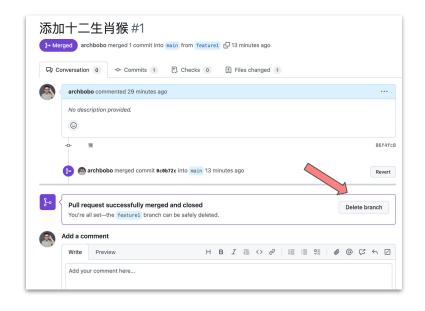
波波Merge Pull Request

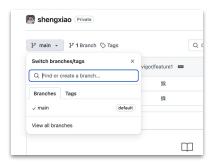


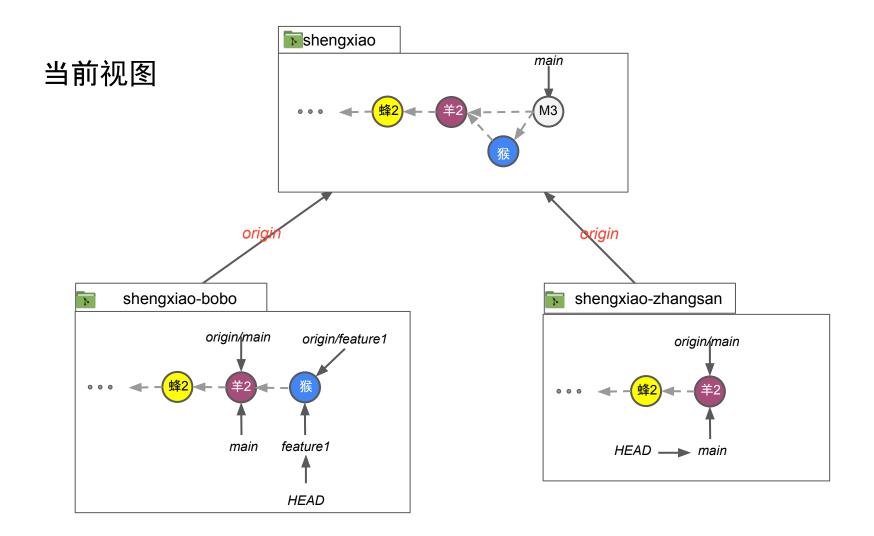




波波删除远程feature1分支





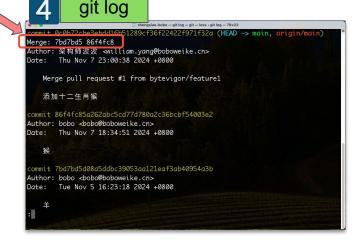


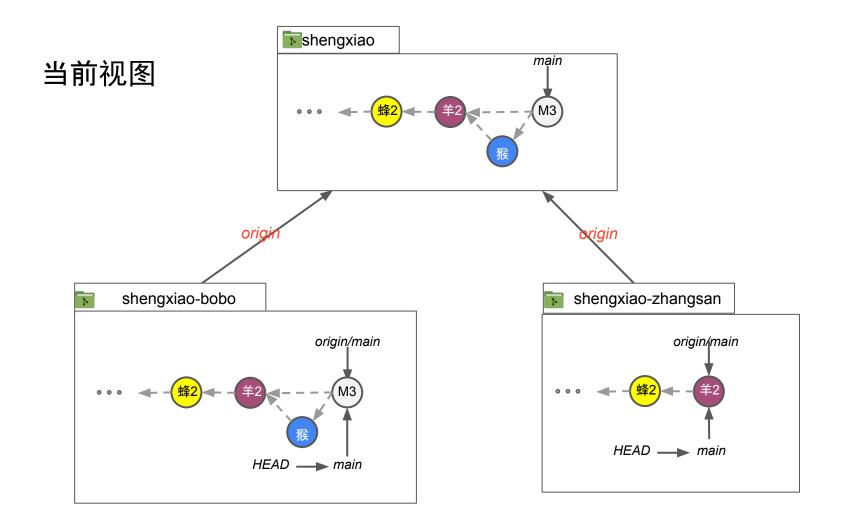
波波同步远程仓库+清理(shengxiao-bobo)





```
2. git pull -p
                 shengxiao-bobo — boboweike@bobos-Mac — ..hengxiao-bobo — -zsh — 69×13
   shengxiao-bobo git:(main) git pull -p
From https://aithub.com/byteviaor/shenaxiao
                                 -> origin/feature1
 - [deleted]
                     (none)
remote: Enumerating objects: 1, done.
remote: Counting objects: 100% (1/1), done.
remote: Total 1 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0
Unpacking objects: 100% (1/1), 948 bytes | 474.00 KiB/s, done.
   7bd7bd5..0c0b72c main
                                 -> origin/main
Updating 7bd7bd5..0c0b72c
Fast-forward
12_shengxiao.txt | 1 +
1 file changed, 1 insertion(+)
   shengxiao-bobo git:(main)
```

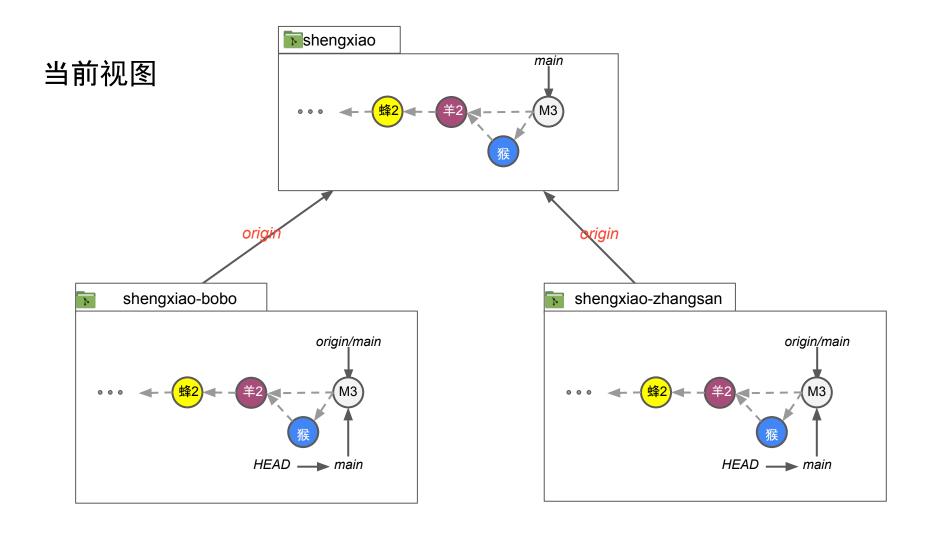


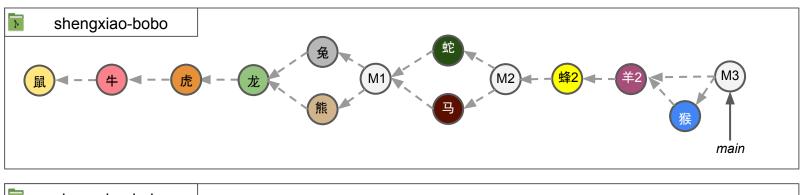


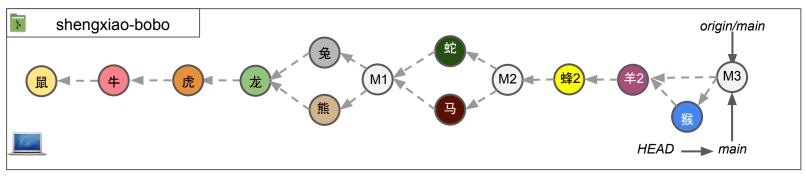
张三Pull拉取合并(shengxiao-zhangsan)

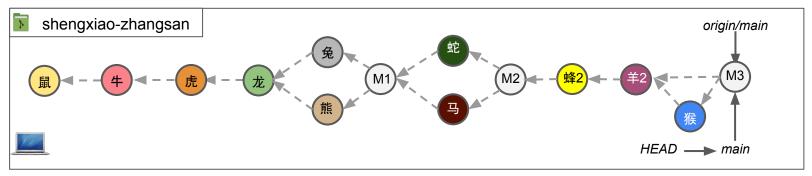
```
1. git pull
                 shengxiao-zhangsan — boboweike@bobos-Mac — ..xiao-zhangsan — -zsh — 72×14
  shengxiao-zhangsan git:(main) git pull
remote: Enumerating objects: 6, done.
remote: Counting objects: 100% (6/6), done.
remote: Compressing objects: 100% (3/3), done.
remote: Total 4 (delta 1), reused 3 (delta 1), pack-reused 0 (from 0)
Unpacking objects: 100% (4/4), 1.21 KiB | 310.00 KiB/s, done.
From https://github.com/bytevigor/shengxiao
   7bd7bd5..0c0b72c main
                                 -> origin/main
Updating 7bd7bd5..0c0b72c
Fast-forward
12_shengxiao.txt | 1 +
1 file changed, 1 insertion(+)
   shengxiao-zhangsan git:(main)
```











本课小结



- 演示了Pull Request
 - 企业级开发/协作/评审流程
 - 代码托管平台支持的功能
 - 缺省为non-fast-forward合并,即便没有分叉也会 生成一个新提交
- 设定上游分支的快捷方式
 - o git push -u <shortname> <branch_name>
- 在建立概念模型的基础上, 请进一步实践+ 探索Git, 再见!