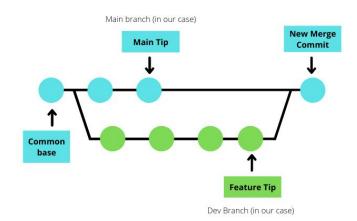
第九章 合并冲突 (Merge Conflicts)

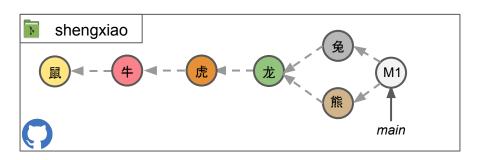


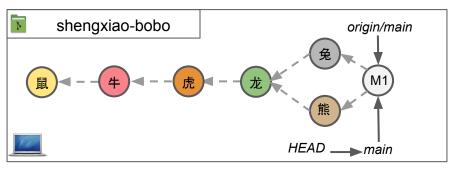
内容大纲

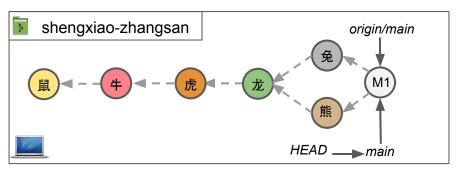
演示带有冲突(Conflicts)的三方合并(Three-Way Merge)

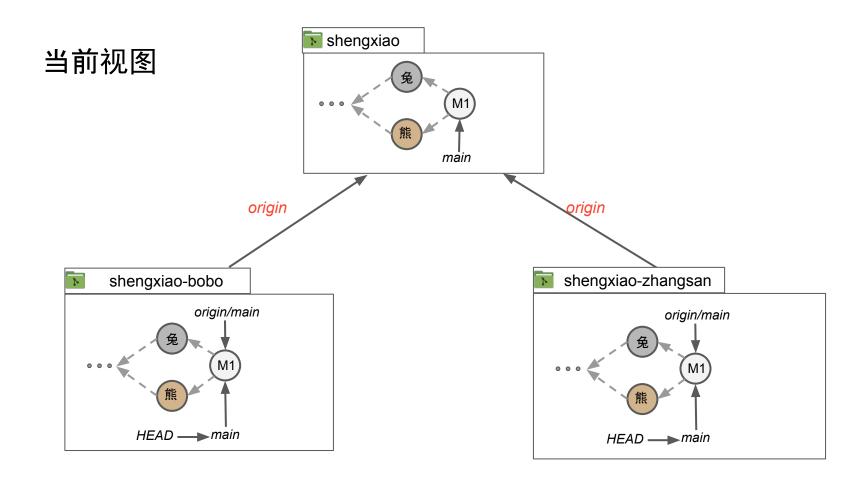


当前本地 和远程仓库 完整情况



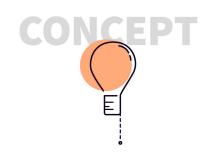






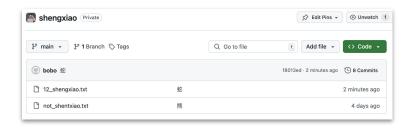
合并冲突(Merge Conflicts)

- 原因,在不同的分支上:
 - 两人对同一(或多个)文件的相同部分进行了修改
 - 一人删除了文件, 另一人 修改了同一文件
- Merge和Rebase过程中都可能发生合并冲突
- 解决合并冲突是Git工作流程的一部分
- 两步流程
 - 编辑+保存
 - 添加到暂存区+提交
- 建议尽早合并

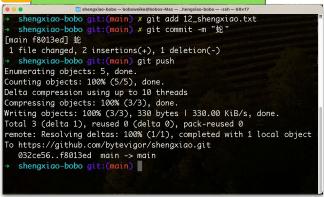


波波准备三方合并+冲突解决场景 (shengxiao-bobo)

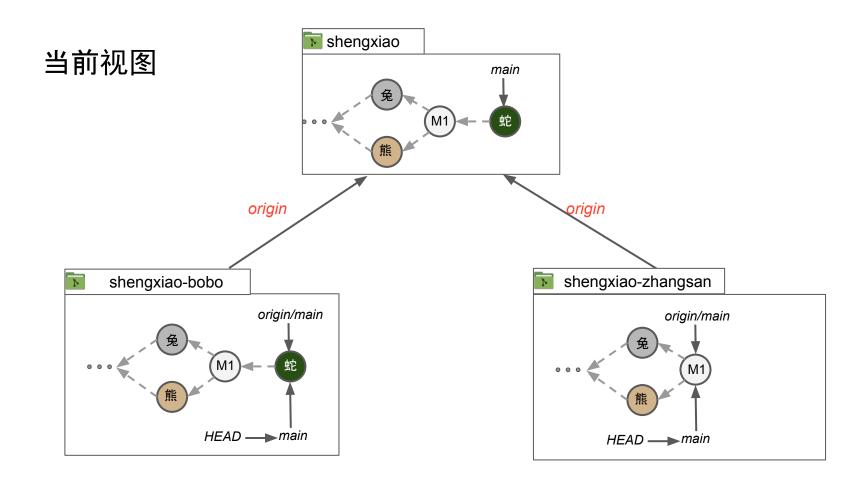




2. add & commit & push





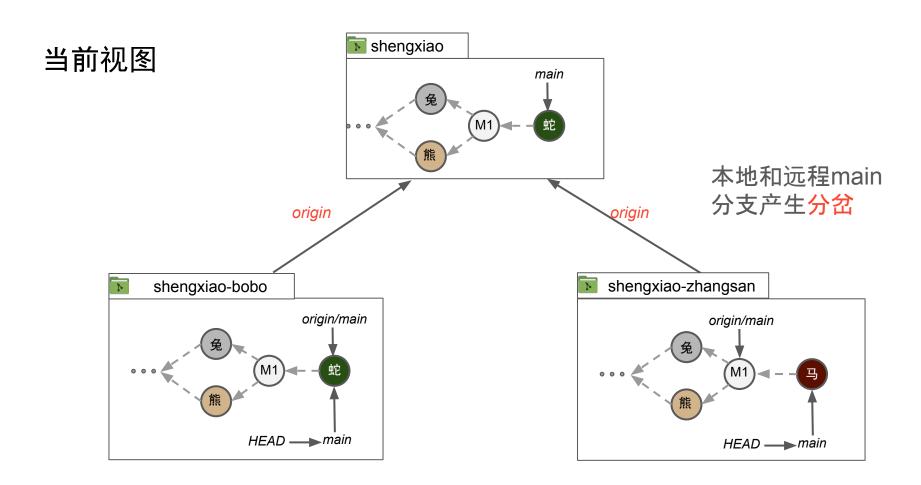


张三准备三方合并+冲突解决场景 (shengxiao-zhangsan)









张三拉取远程变更 (shengxiao-zhangsan)

```
1. git fetch

Shengxiao-zhangsan — boboweke⊕bobos-Mac — .xiao-zhangsan — -zsh — 63×10

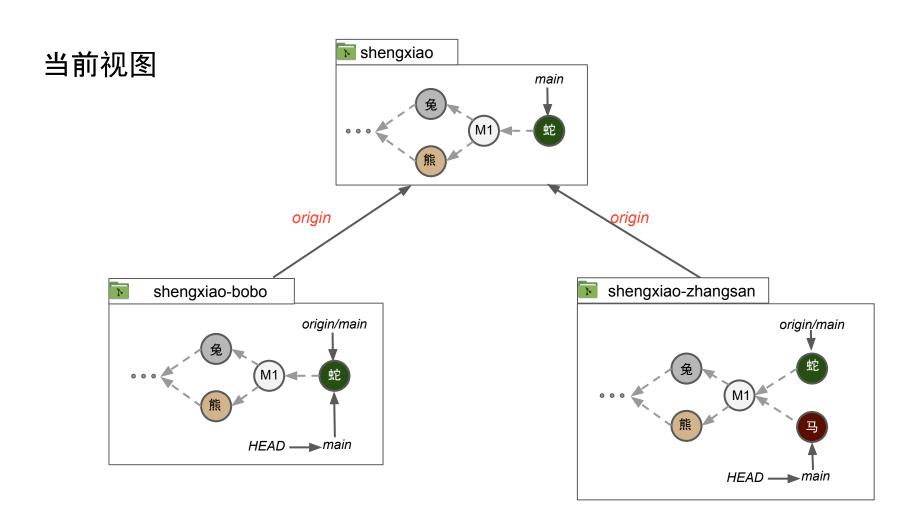
Shengxiao-zhangsan git:(main) git fetch
remote: Enumerating objects: 5, done.
remote: Counting objects: 100% (5/5), done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 3 (delta 1), reused 3 (delta 1), pack-reused 0 (f rom 0)

Unpacking objects: 100% (3/3), 310 bytes | 103.00 KiB/s, done.
From https://github.com/bytevigor/shengxiao
032ce56..f8013ed main —> origin/main

shengxiao-zhangsan git:(main)
```





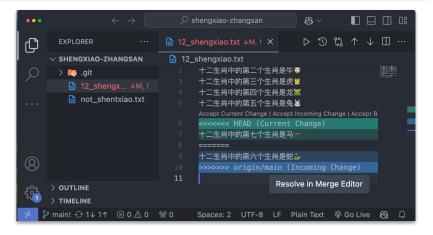


张三合并origin/main(shengxiao-zhangsan)

1. git merge origin/main

```
shengxiao-zhangsan git:(main) git merge origin/main
Auto-merging 12_shengxiao.txt
CONFLICT (content): Merge conflict in 12_shengxiao.txt
Automatic merge failed; fix conflicts and then commit the result.

shengxiao-zhangsan git:(main) x
```

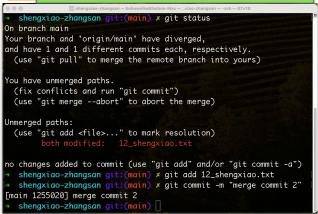


张三解决冲突

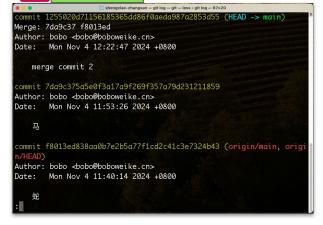
1. 解析冲突

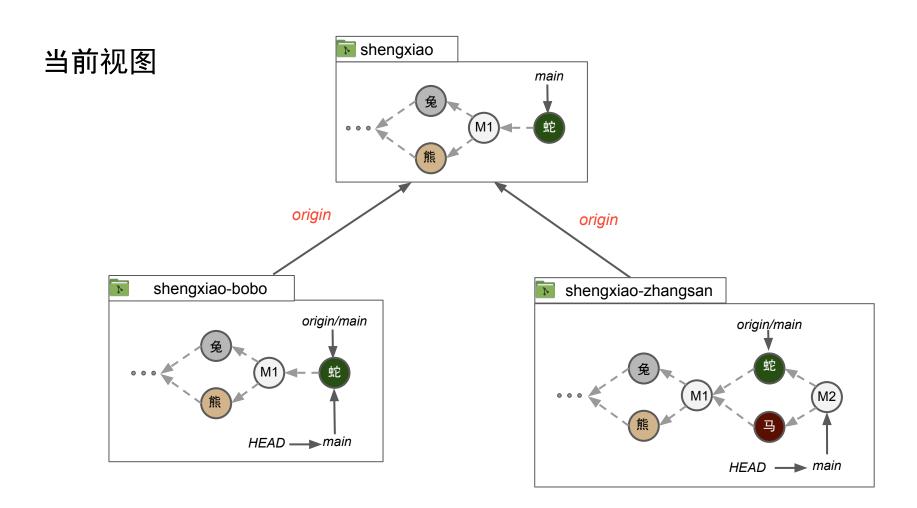


2. git status & add & commit



3. git log





张三推到远程仓库(shengxiao-zhangsan)

```
1 1. git push

shengxiao-zhangsan boboweike®bobos-Mac-.xiao-zhangsan--zsh-68x12

shengxiao-zhangsan git:(main) git push
Enumerating objects: 10, done.
Counting objects: 100% (10/10), done.
Delta compression using up to 10 threads
Compressing objects: 100% (6/6), done.
Writing objects: 100% (6/6), 604 bytes | 604.00 KiB/s, done.
Total 6 (delta 2), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (2/2), completed with 1 local object.
To https://github.com/bytevigor/shengxiao.git
f8013ed..1255020 main -> main

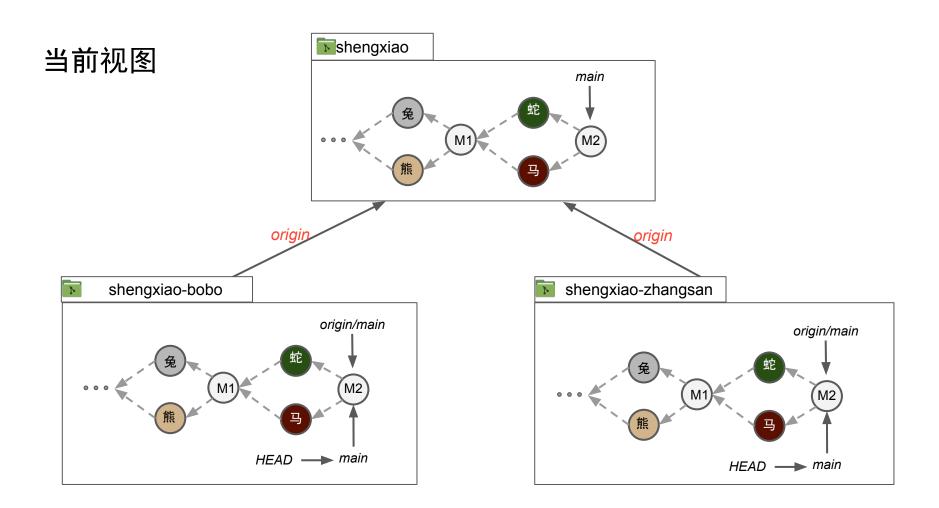
shengxiao-zhangsan git:(main)
```

波波拉取合并到本地(shengxiao-bobo)

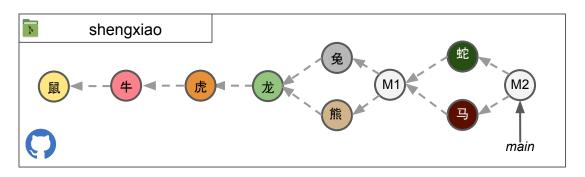
```
1. git pull

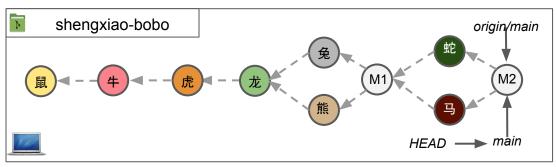
** shengxiao-bobo git:(main) git pull
remote: Enumerating objects: 10, done.
remote: Counting objects: 100% (10/10), done.
remote: Compressing objects: 100% (4/4), done.
remote: Total 6 (delta 2), reused 6 (delta 2), pack-reused 0 (from 0)
Unpacking objects: 100% (6/6), 584 bytes | 97.00 KiB/s, done.
From https://github.com/bytevigor/shengxiao
f8013ed..1255020 main -> origin/main
Updating f8013ed..1255020
Fast-forward
12_shengxiao.txt | 1 +
1 file changed, 1 insertion(+)
** shengxiao-bobo git:(main)
```

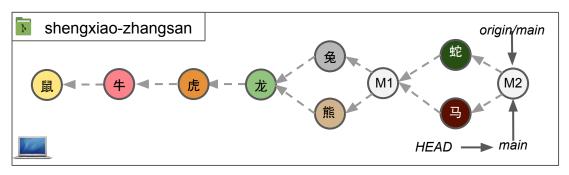




当前本地 和远程仓库 完整情况







本课小结



- 合并冲突原因
 - 修改了同一(或多个)文件的相同部分
 - 一删一改
- 两步流程
 - 编辑解决冲突+保存
 - 添加到暂存区+提交
- 建议尽早合并
- 下节课预览
 - 变基(Rebasing) + 冲突解决