

Will start at 9:10

Agenda

→ Complete Git

→ checkout

→ branch

→ merge

→ rebase

→ HEAD

→ pull

→ fetch

→ push

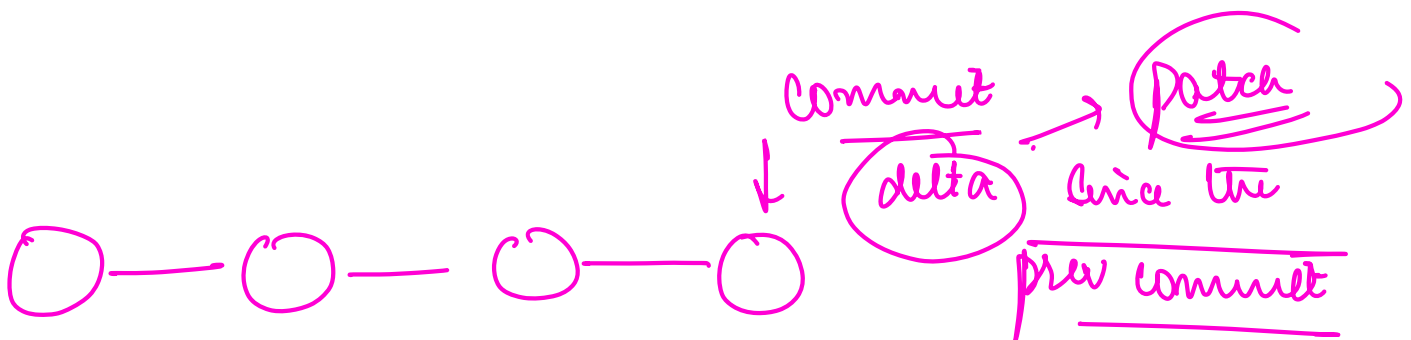
→ clone

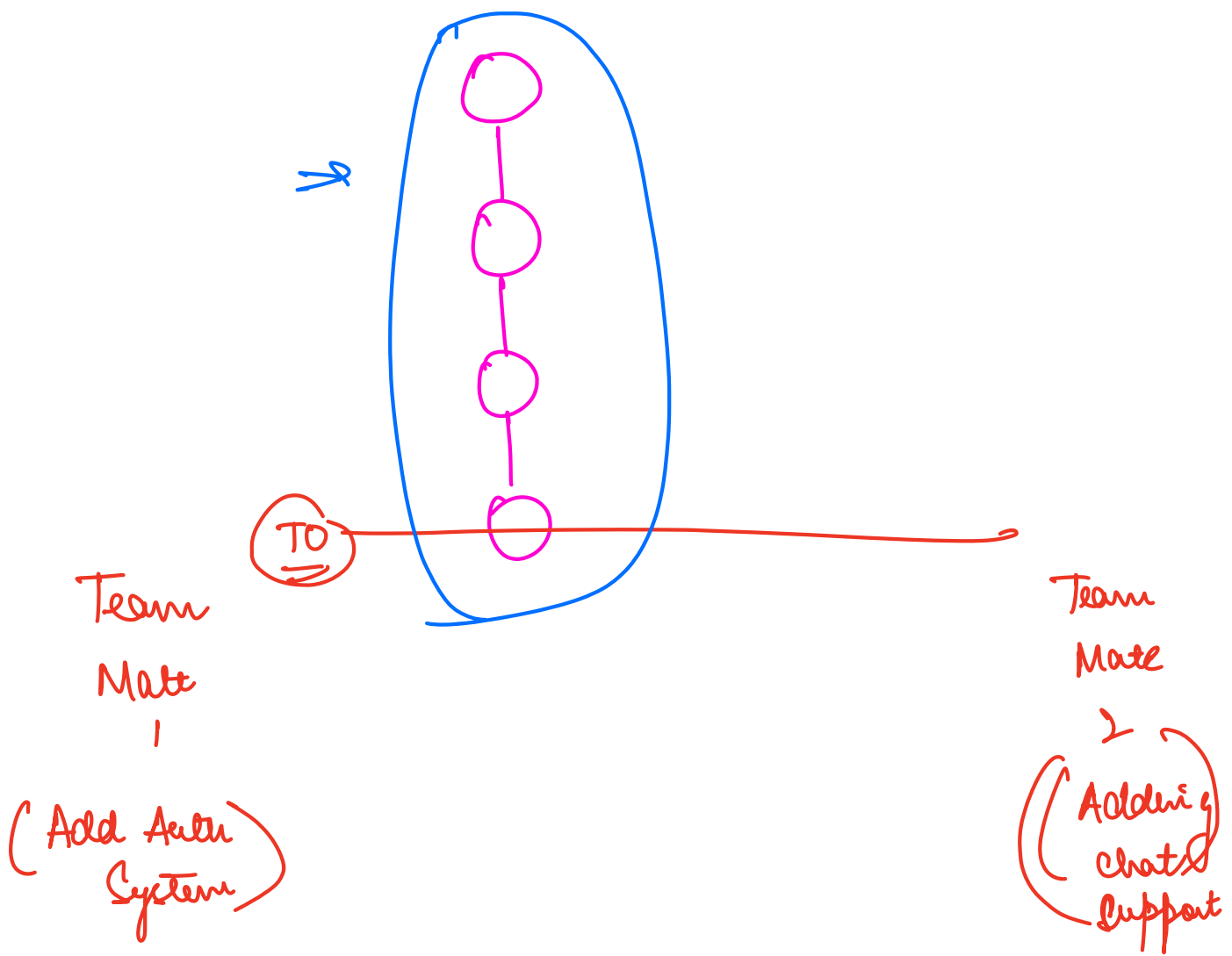
→ git remote

→ Submitting first PR

→ Cherry-pick

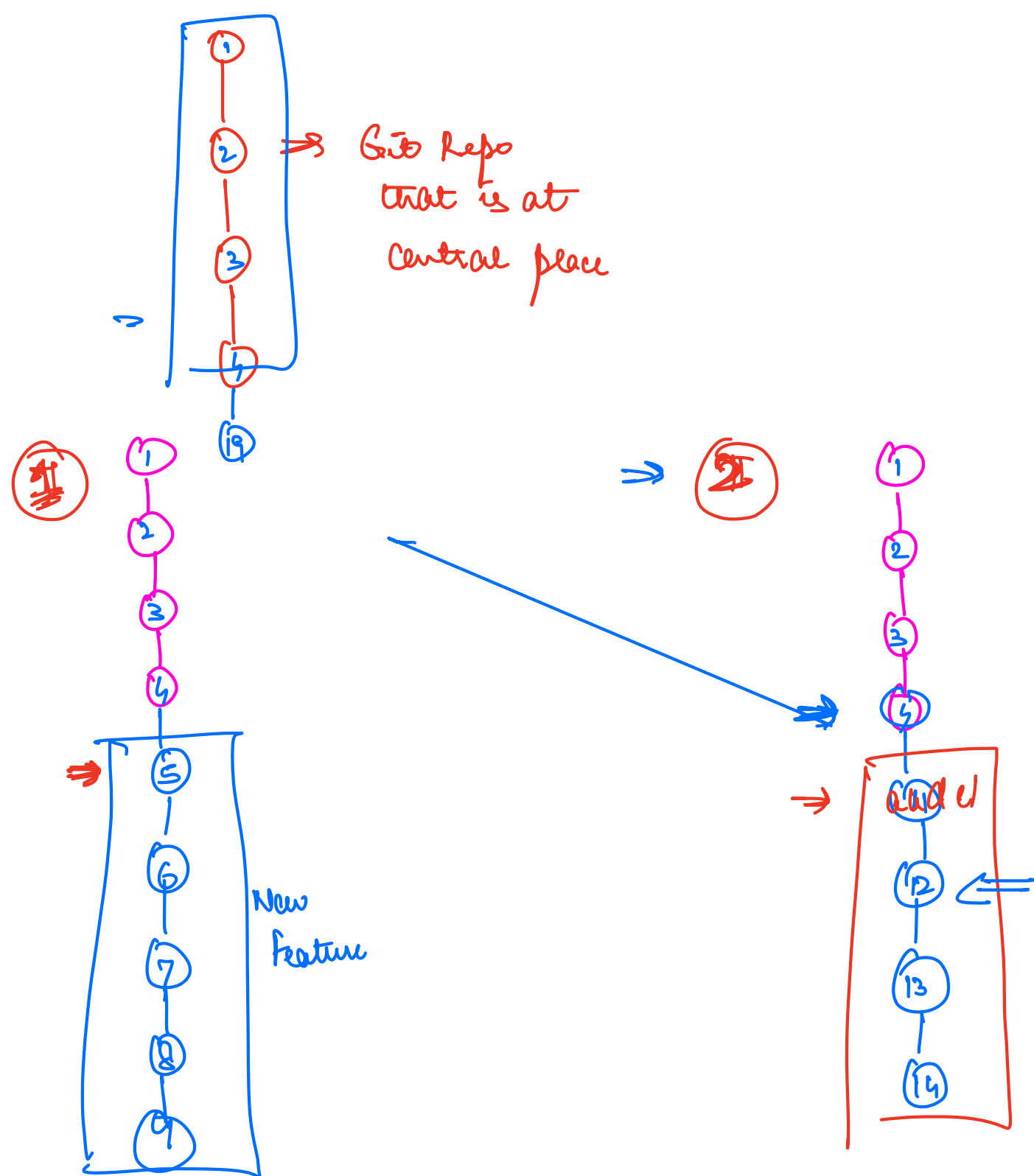
→ Project Overview





Have short commits

→ Small freq commit

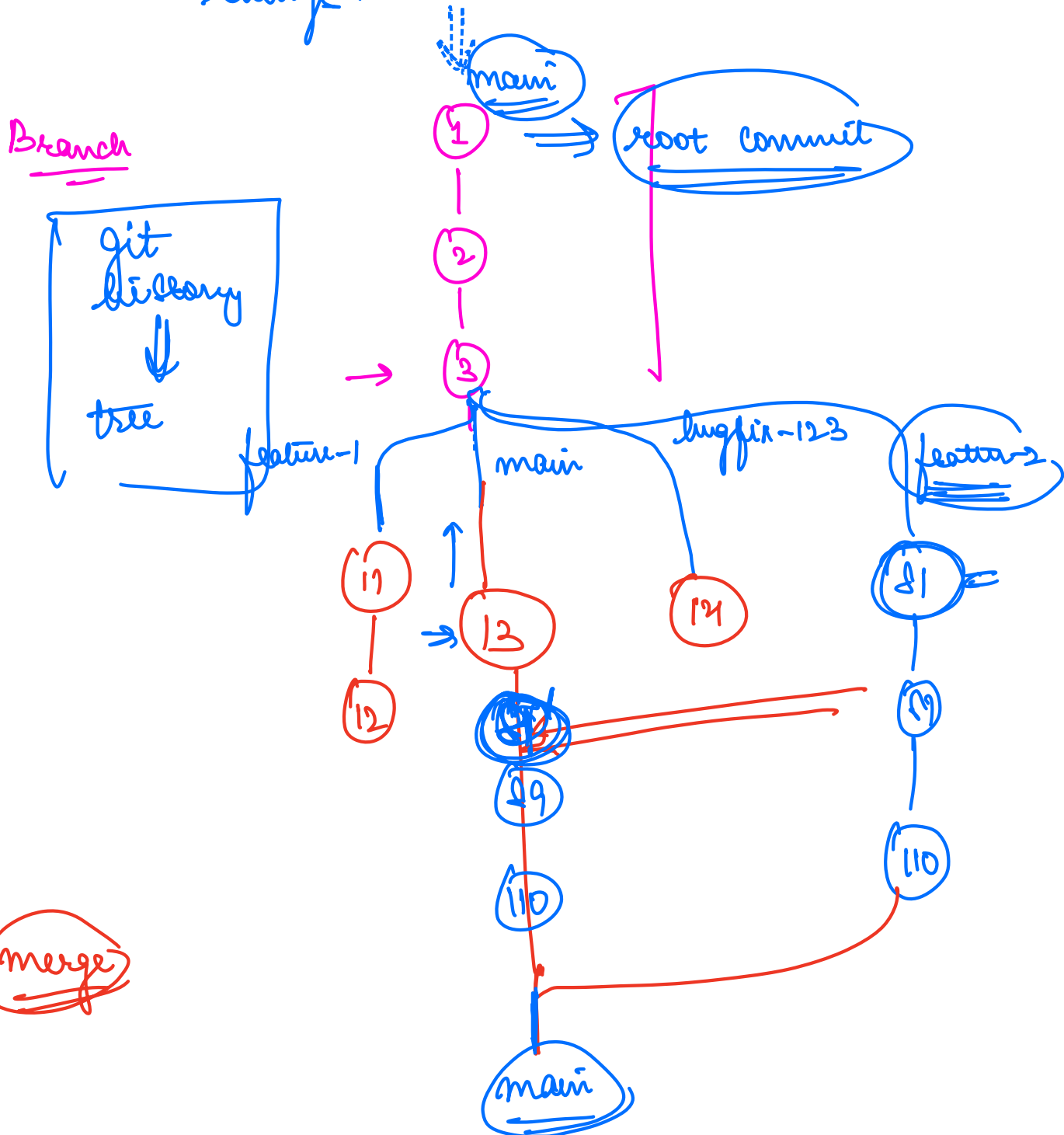


⇒ commit IDs are globally unique

commit hash

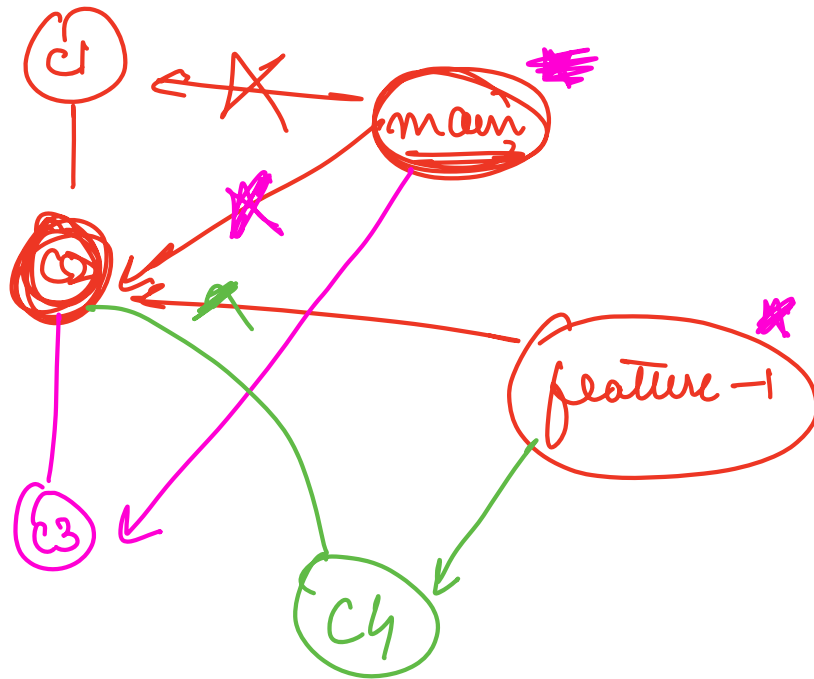
hash (prev commit ID, changes, author, machine id, time)

- Same person may be working on multiple parallel things at same time
- diff people may be working on diff things.



Branch Name

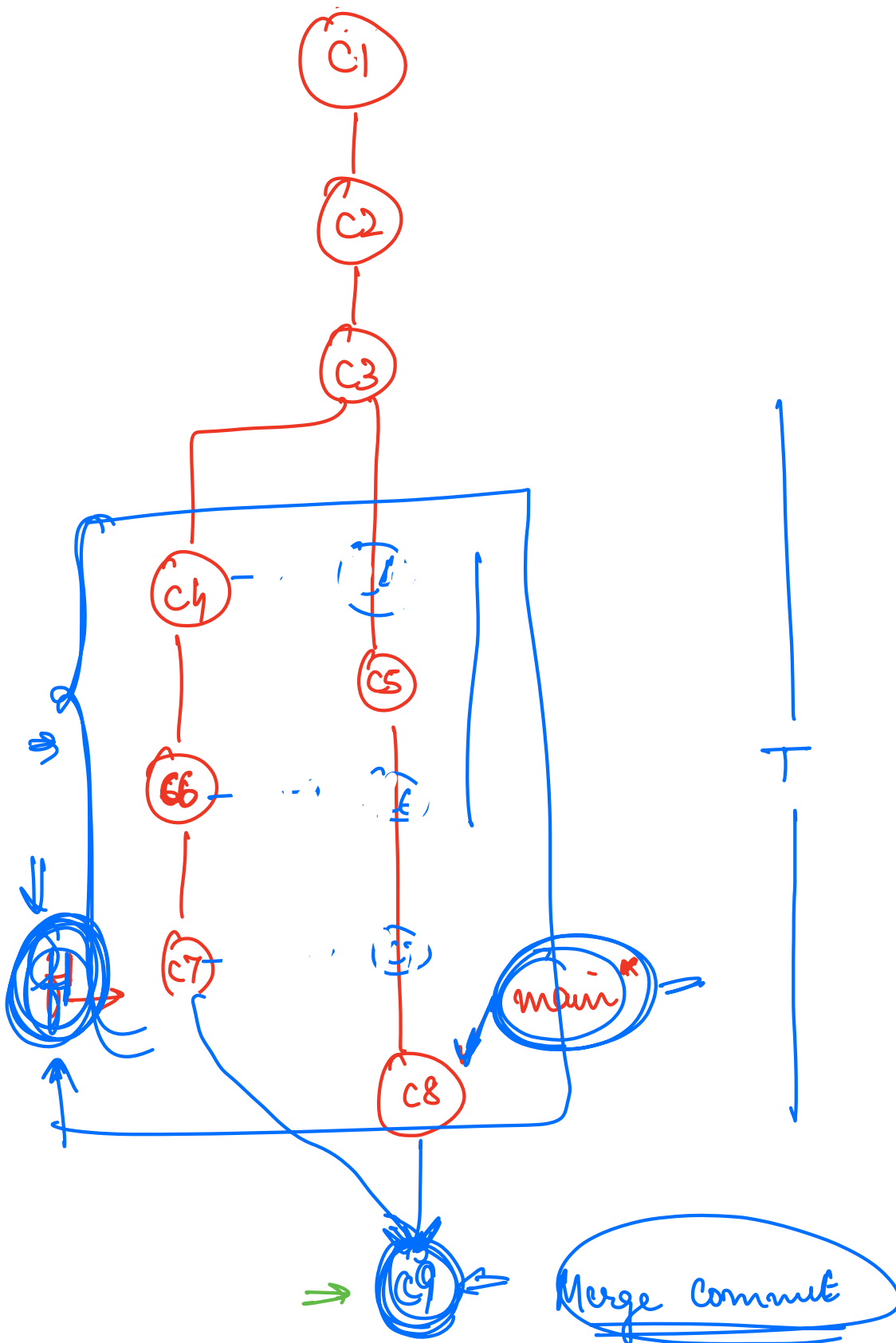
→ Variable pointing to a particular
Commit



git check out -b new-branch-name
↓

git branch new-branch-name

+
git checkout new-branch-name.

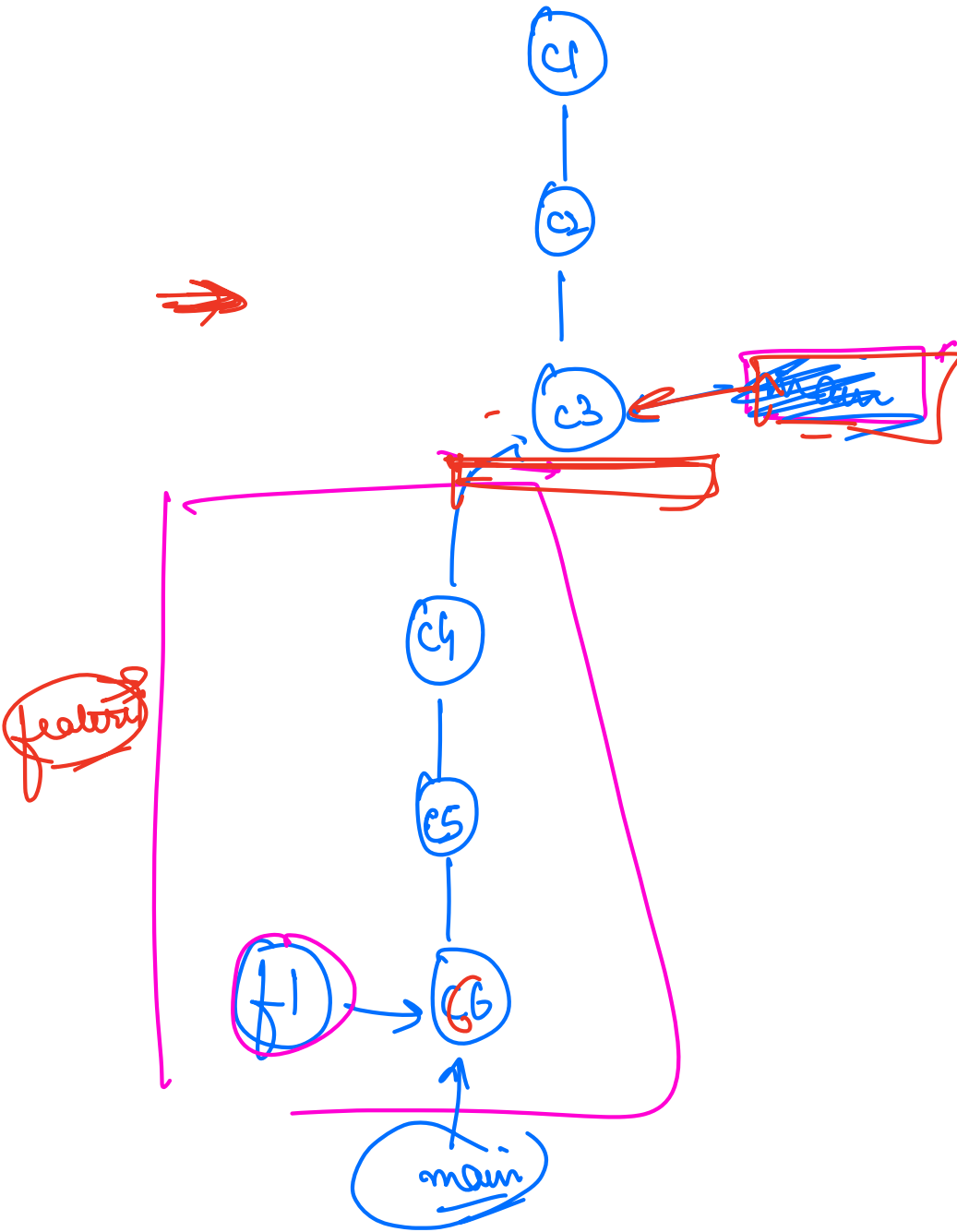


During merge

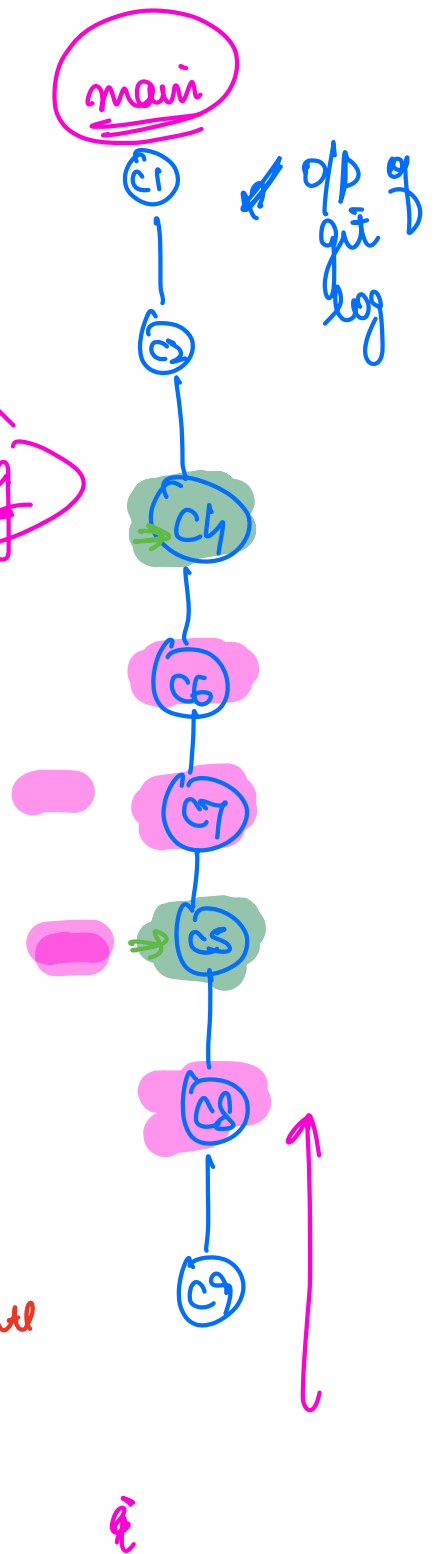
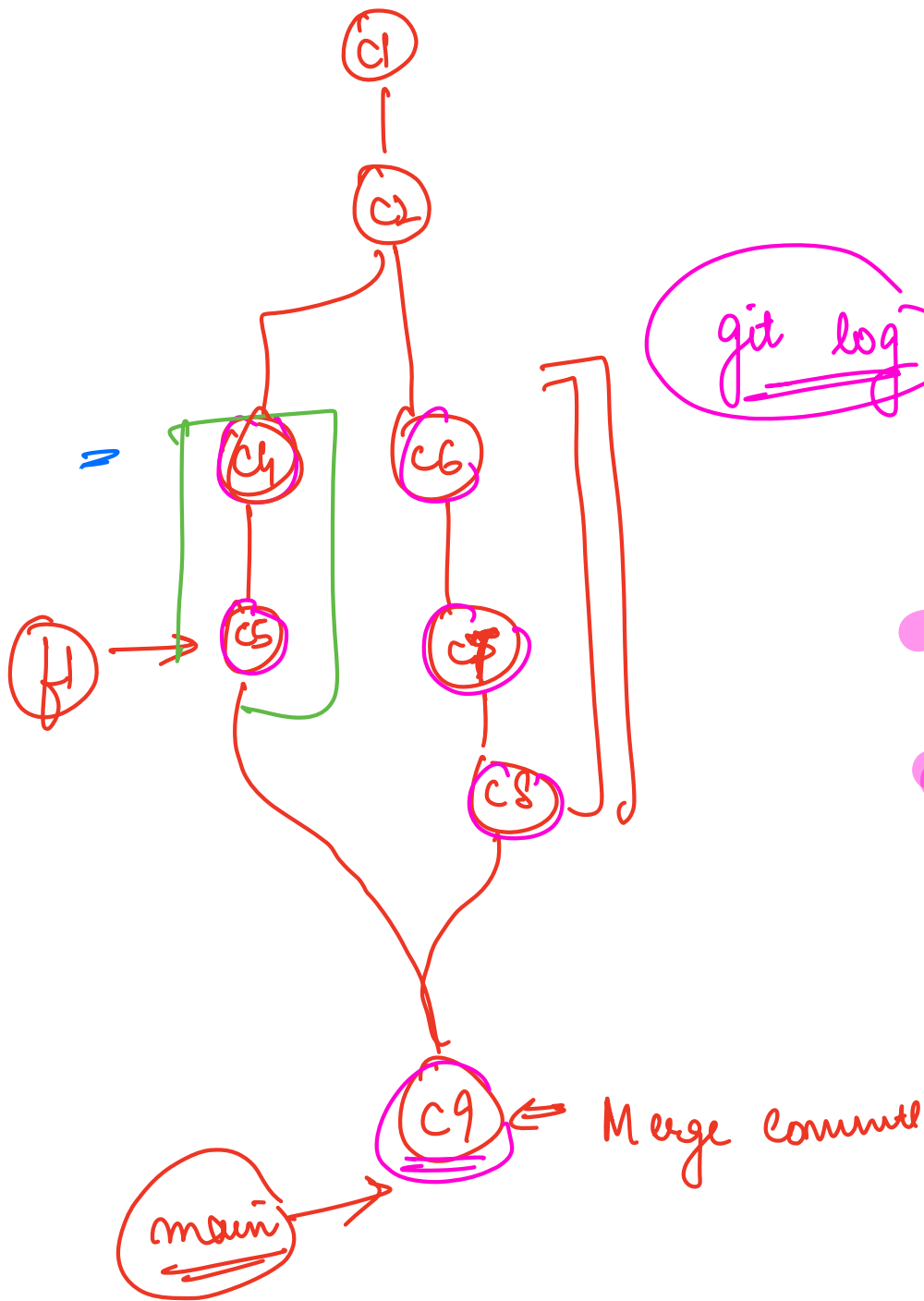
→ When git sees changes have been made in both branches, it creates a new commit which is called

a merge commit

→ 'if no changes, no new commit'

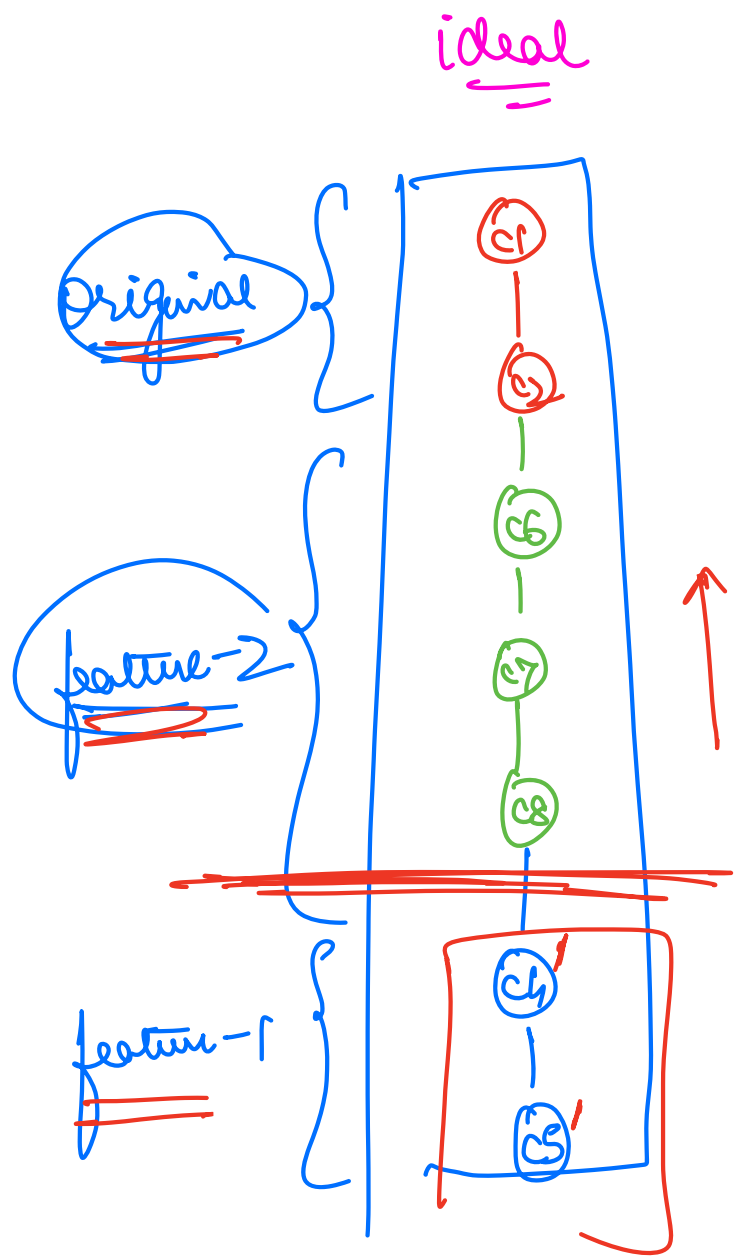


Problems with merge



case

- ① Code was working
- ② merged f1 =
- ③ prod is down



When we did merge, we didn't actually copy commits of 1 branch into other instead we created new commit with 2 parents

git release

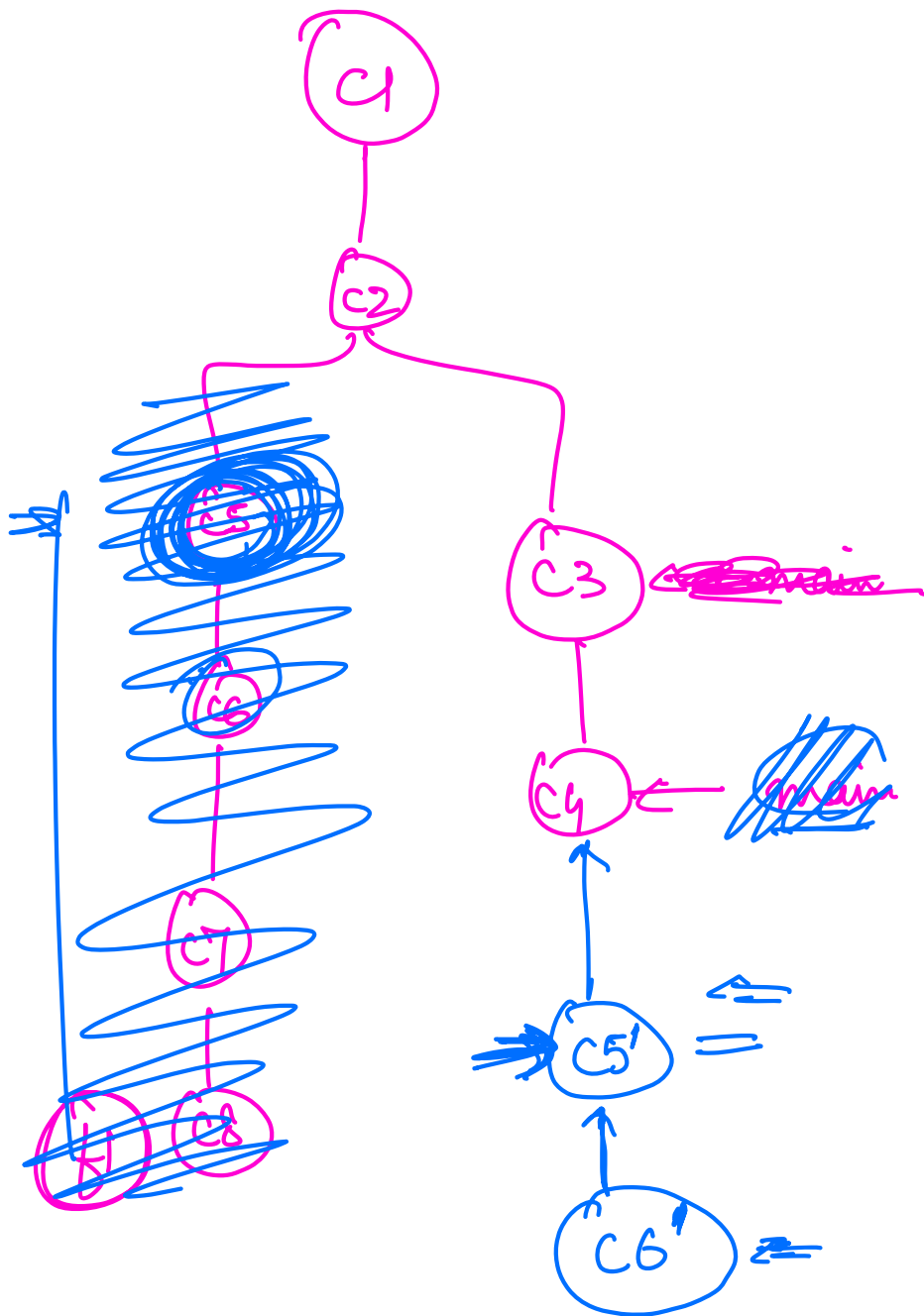
(Break till 10:40)

When working in prod^m, always
release instead of merge

Ensures history is clean

When working on a feature branch,
keep releasing the feature branch
frequently on main

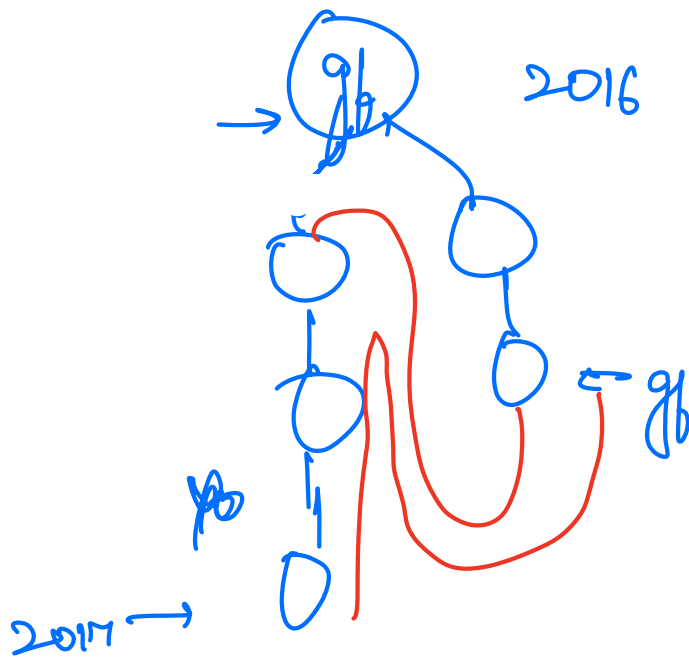
→ Because when you will merge,
merge will be fast-forward.



① ⇒ get rebase main

{
 resolve conflict
 git add.
 git rebase --continue

← (f1)
 ← main



→ Project Overview

H/W 1

- Go through project overview document
- Complete "Main" section of
learn git branching. js.org

→ Git will be completed in next class

