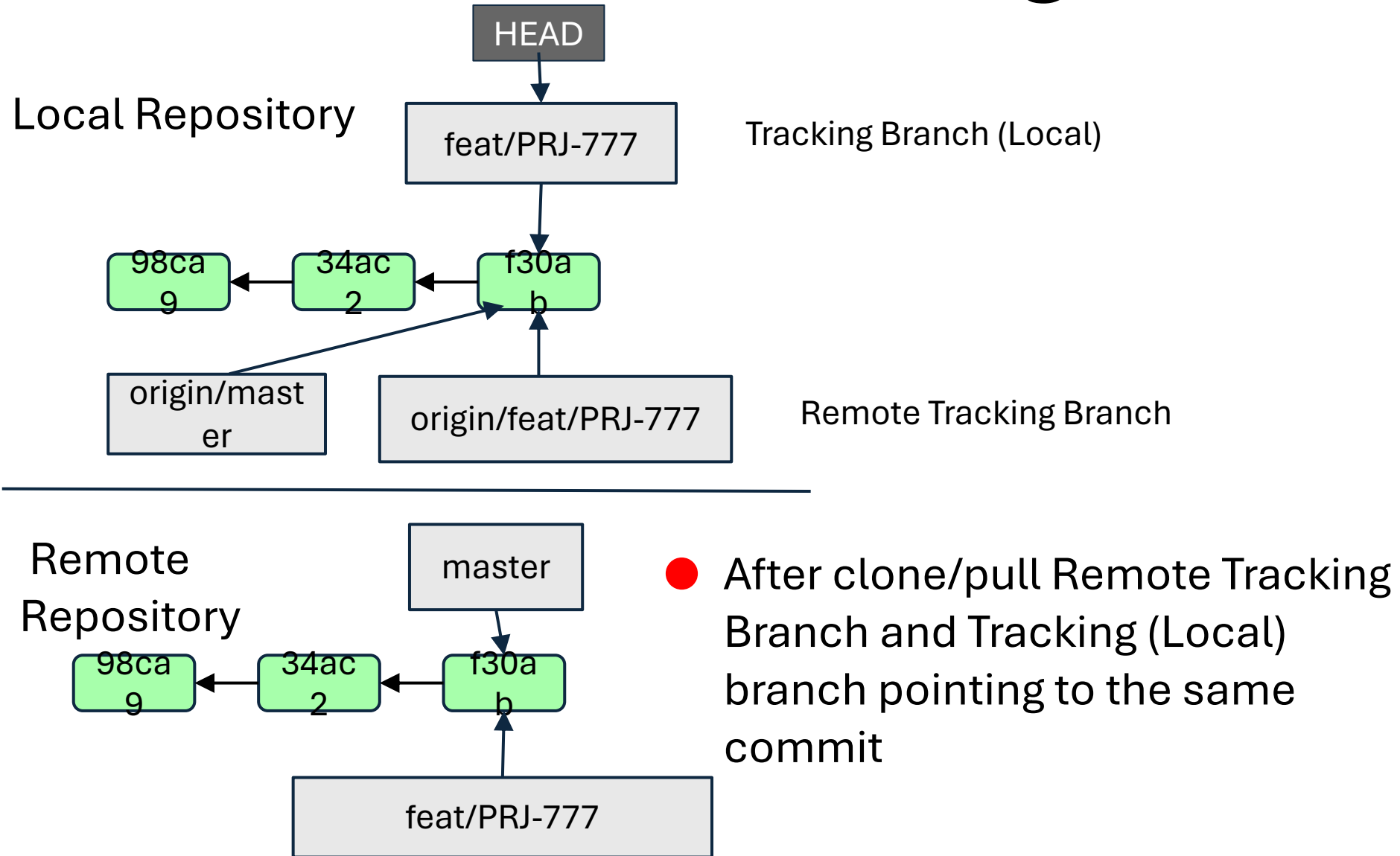# Git Rebase in local repo
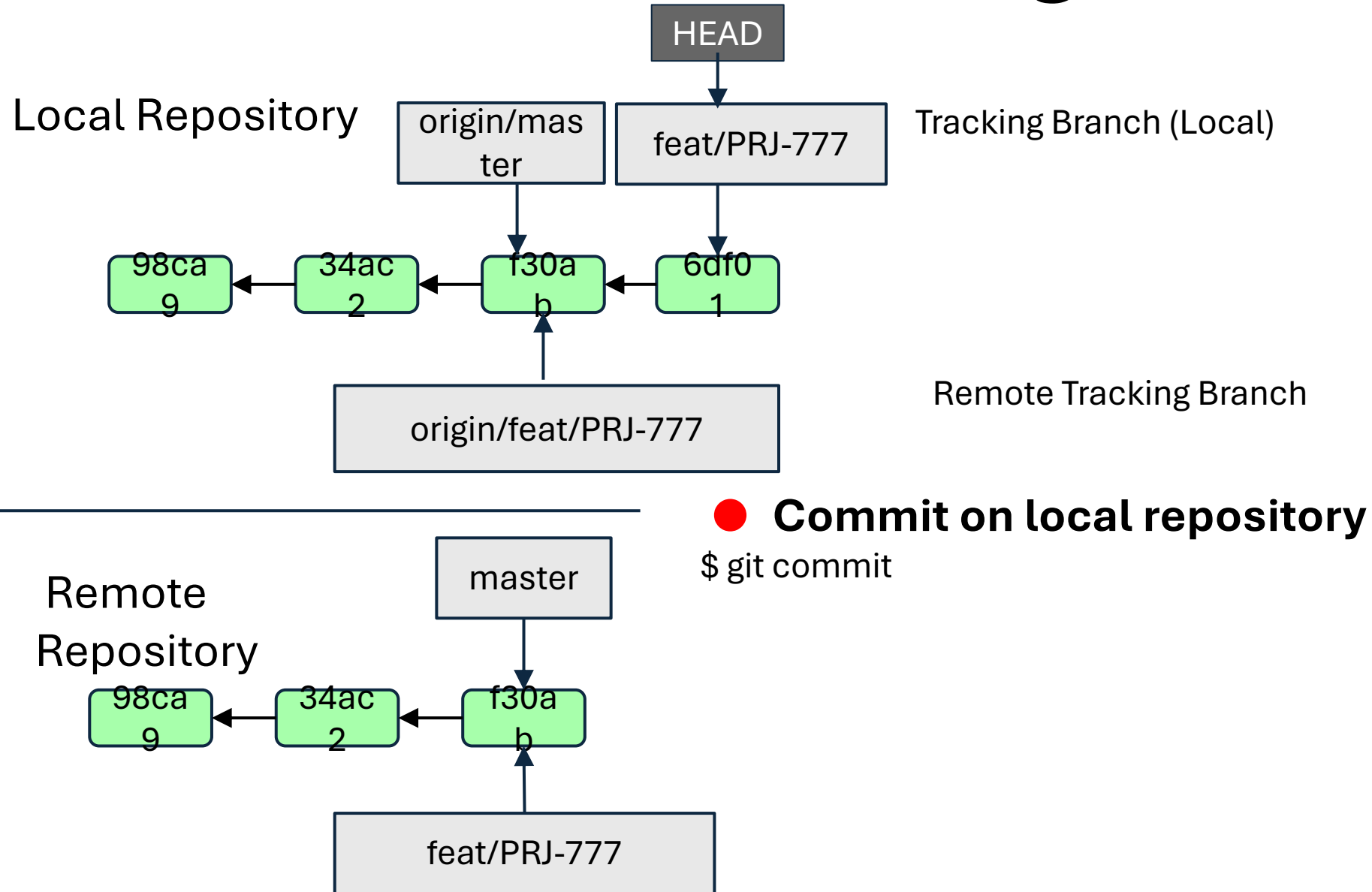
Best practices

Ilya Rokhkin
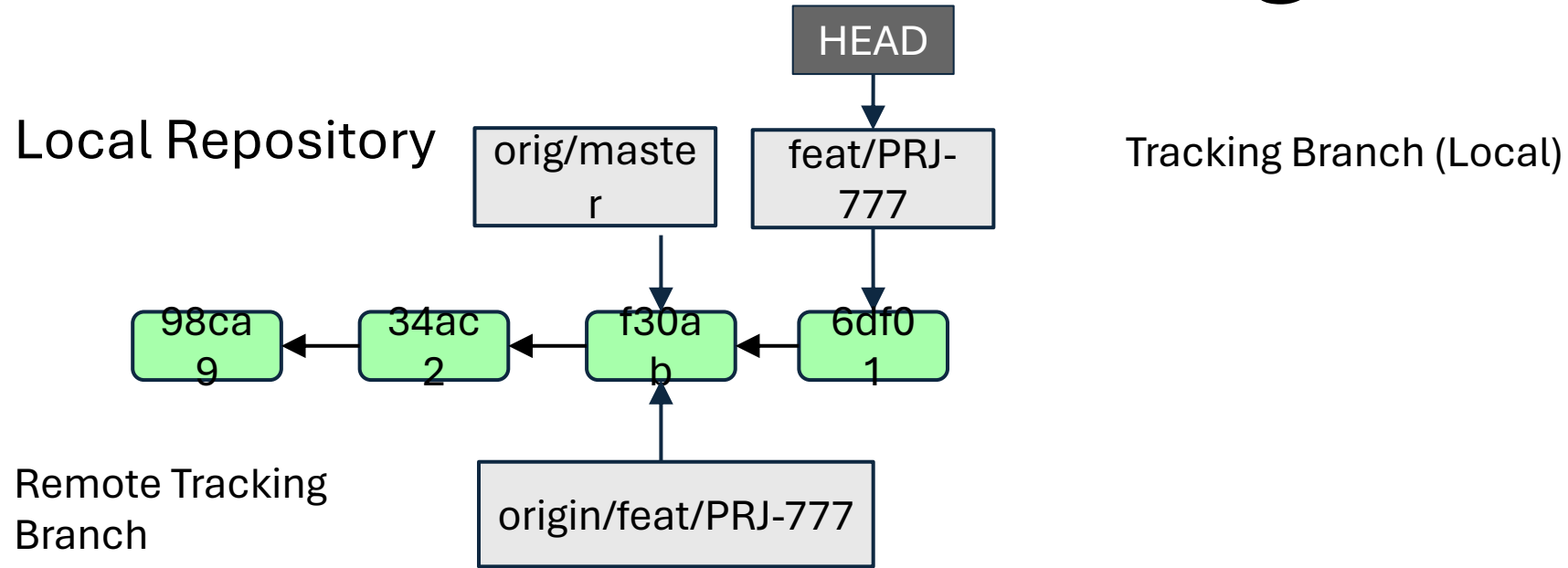
Rebasing Remote Tracking Branch

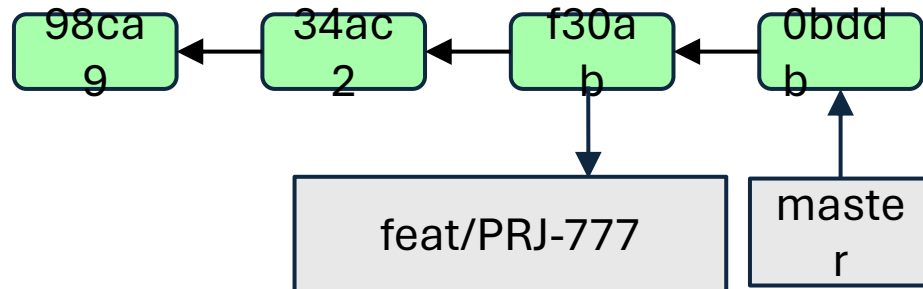HEAD

Local Repository

feat/PRJ-777

Tracking Branch (Local)

98ca9 ← 34ac2 ← f30ab

origin/master

origin/feat/PRJ-777

Remote Tracking Branch

Remote Repository

master

98ca9 ← 34ac2 ← f30ab

feat/PRJ-777

● After clone/pull Remote Tracking Branch and Tracking (Local) branch pointing to the same commit

Rebasing Remote Tracking Branch

Local Repository

HEAD

origin/master

feat/PRJ-777 — Tracking Branch (Local)

98ca9 ← 34ac2 ← f30ab ← 6df01

origin/feat/PRJ-777 — Remote Tracking Branch

🔴 **Commit on local repository**

$ git commit

Remote Repository

master

98ca9 ← 34ac2 ← f30ab

feat/PRJ-777

Rebasing Remote Tracking Branch

Rebasing Remote Tracking Branch
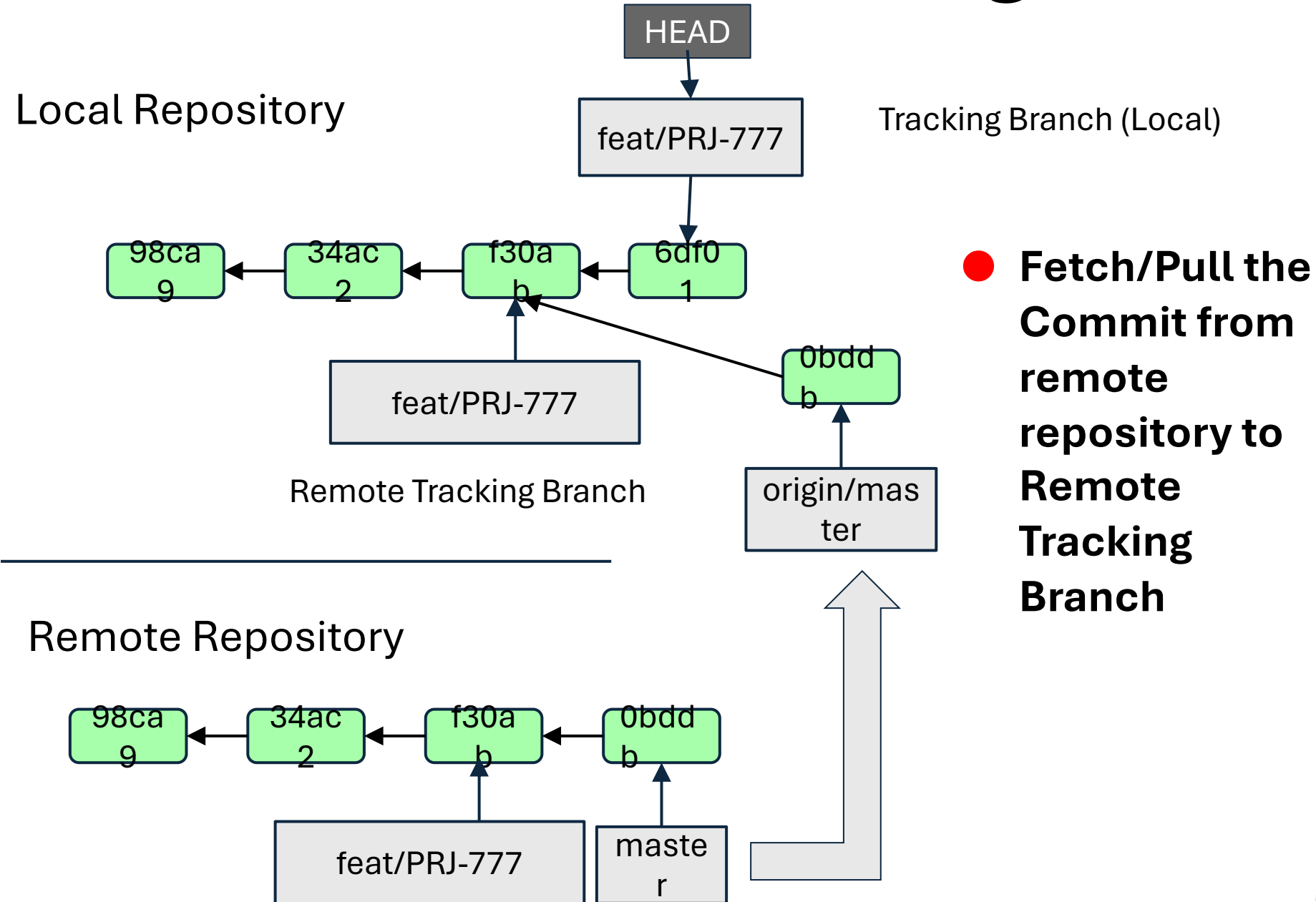
Rebasing origin/master

Local Repository

HEAD

feat/PRJ-777

Tracking Branch (Local)
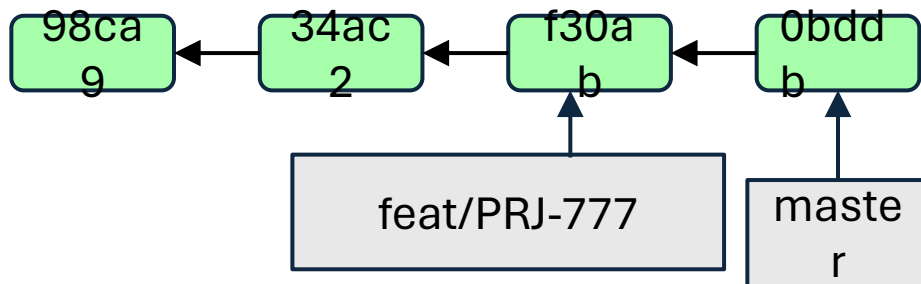
98ca9 ← 34ac2 ← f30ab ← 6df01

origin/feat/PRJ-777

0bddb
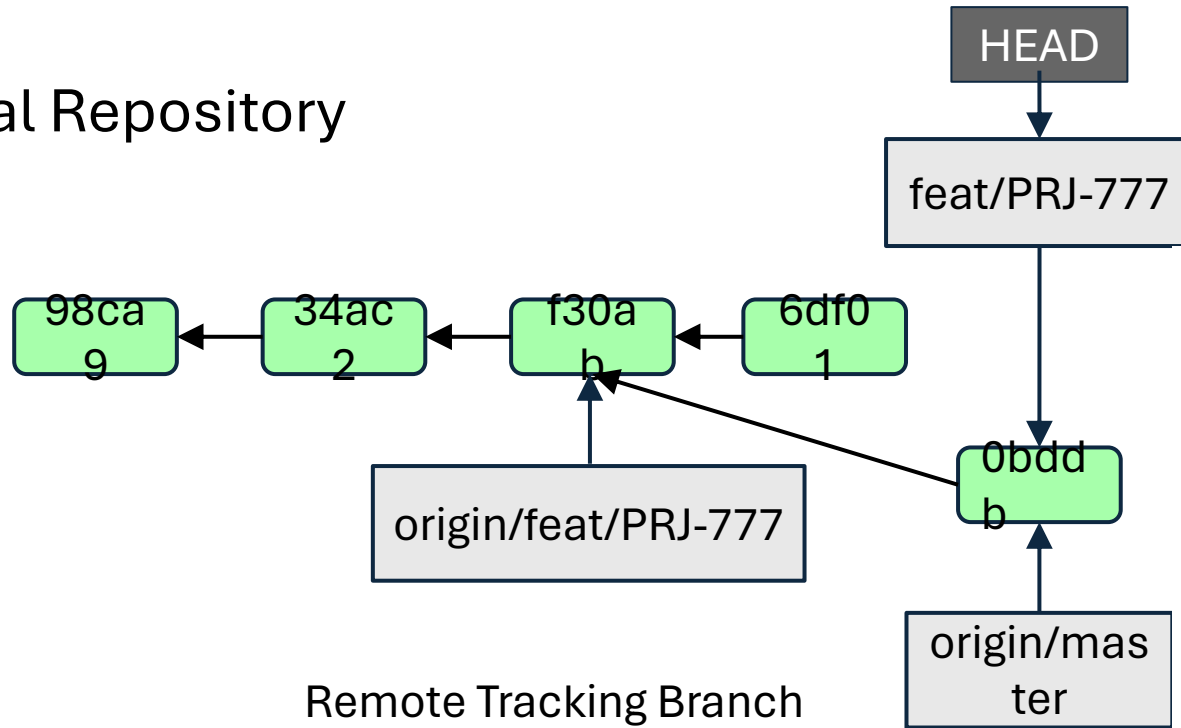
Remote Tracking Branch

origin/master

🔴 $ git rebase origin/master

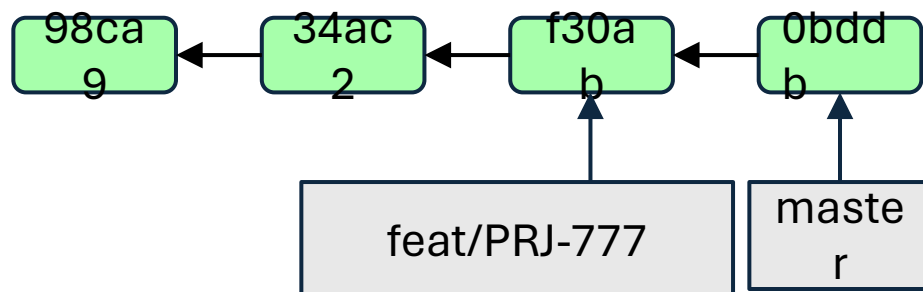First, rewinding head to replay your work on top of it...

Remote Repository

98ca9 ← 34ac2 ← f30ab ← 0bddb

feat/PRJ-777

master

Rebasing Remote Tracking Branch

Local Repository

HEAD

feat/PRJ-777

Tracking Branch (Local)

6df0 1

98ca 9 ← 34ac 2 ← f30a b ← 0bdd b ← 3f9f9

Remote Tracking Branch

origin/feat/PRJ-777

origin/mas ter

🔴 $ git rebase origin/master

...to replay your work on top of it...
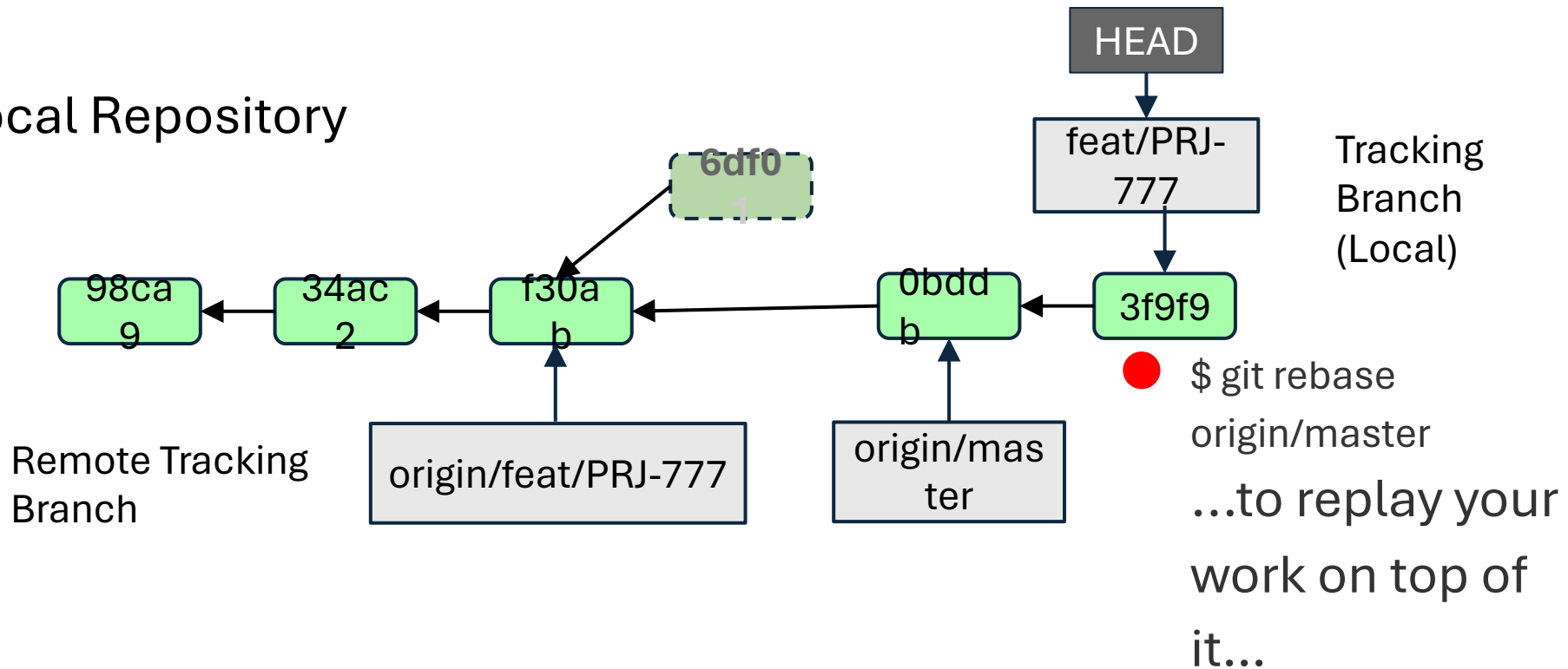
Applying: diff/patch of commit 6dfo on top of origin/master to create commit 3f9f9

Remote Repository

98ca 9 ← 34ac 2 ← f30a b ← 0bdd b

feat/PRJ-777

maste r
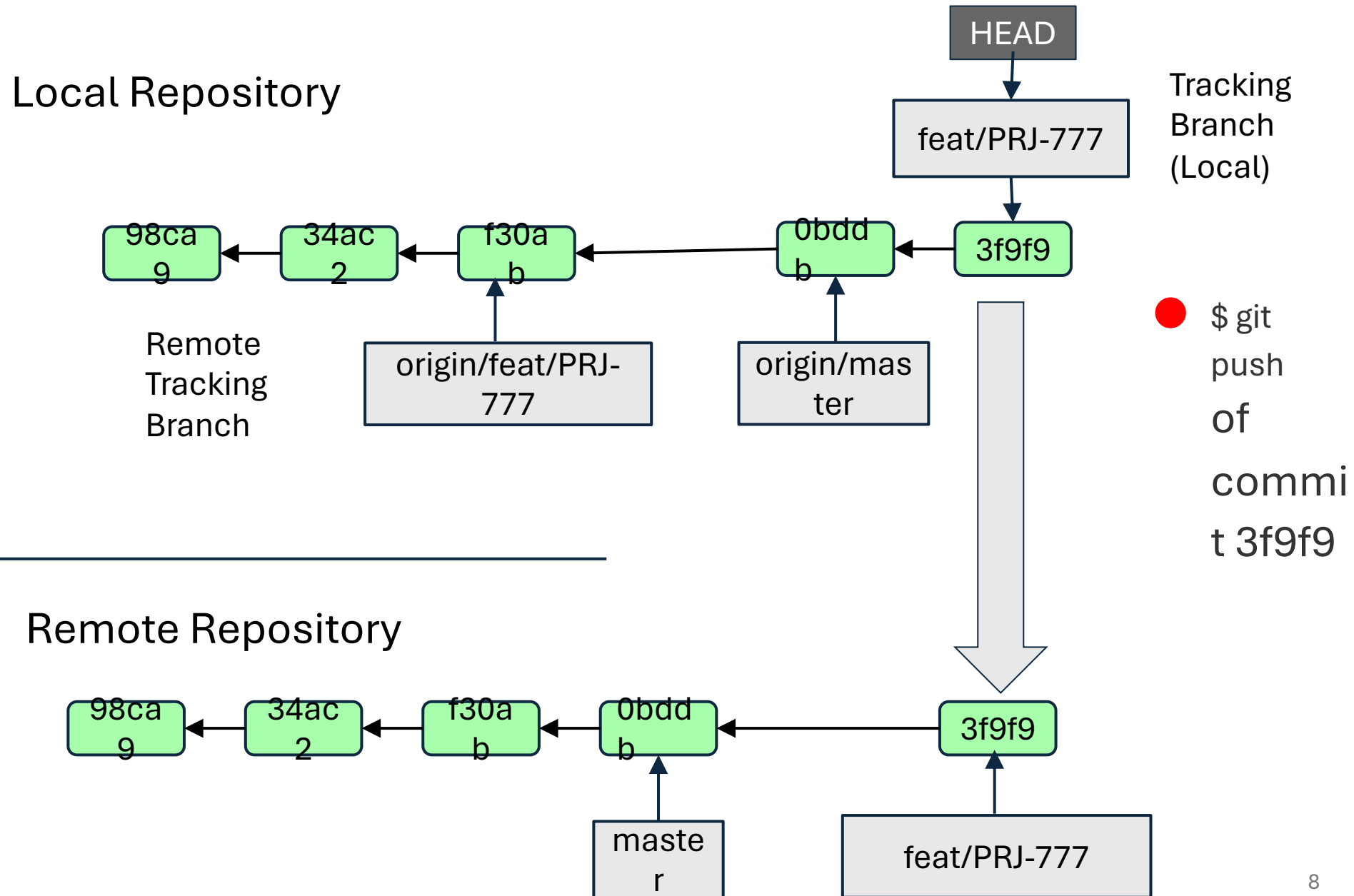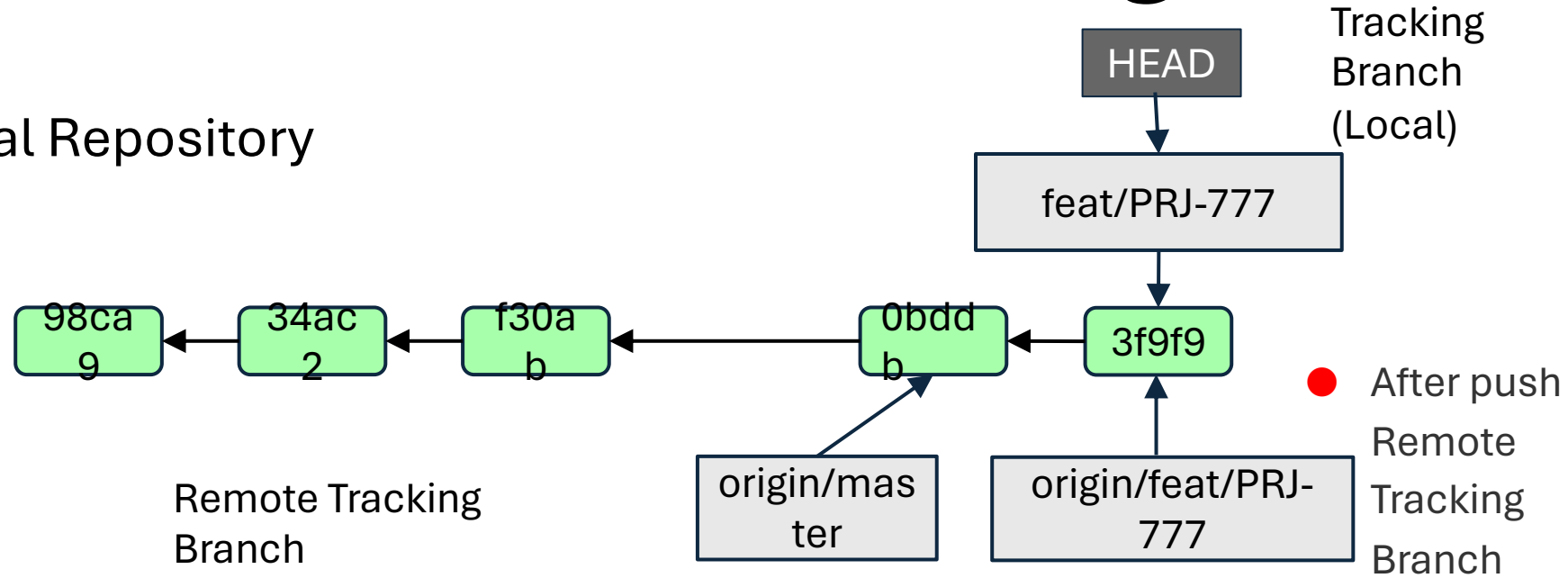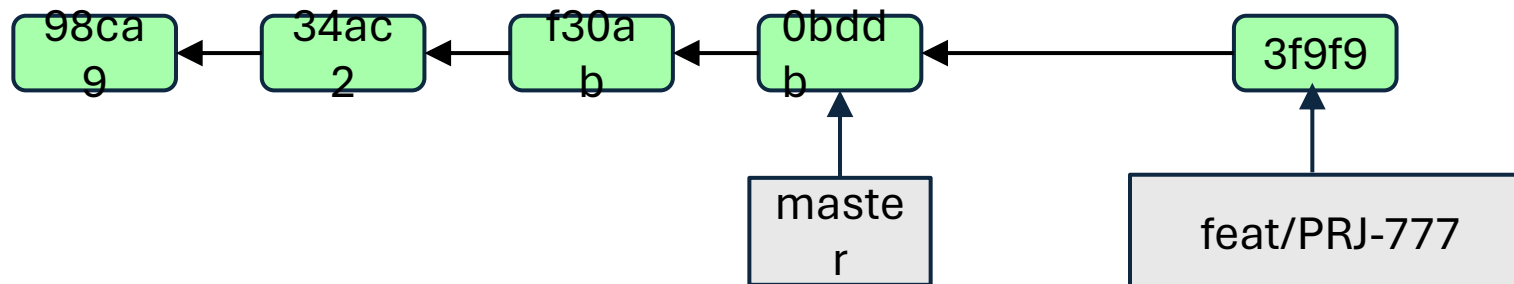
Rebasing Remote Tracking Branch

Rebasing Remote Tracking Branch

Perils of rebase

- **Do not rebase commits that you have pushed to a public repository.**

If you follow that guideline, you'll be fine. If you don't, people will hate you, and you'll be scorned by friends and family.