

Difference between Merge & Rebase

DAY-4

In order to integrate changes from one branch to another, we can do two things-

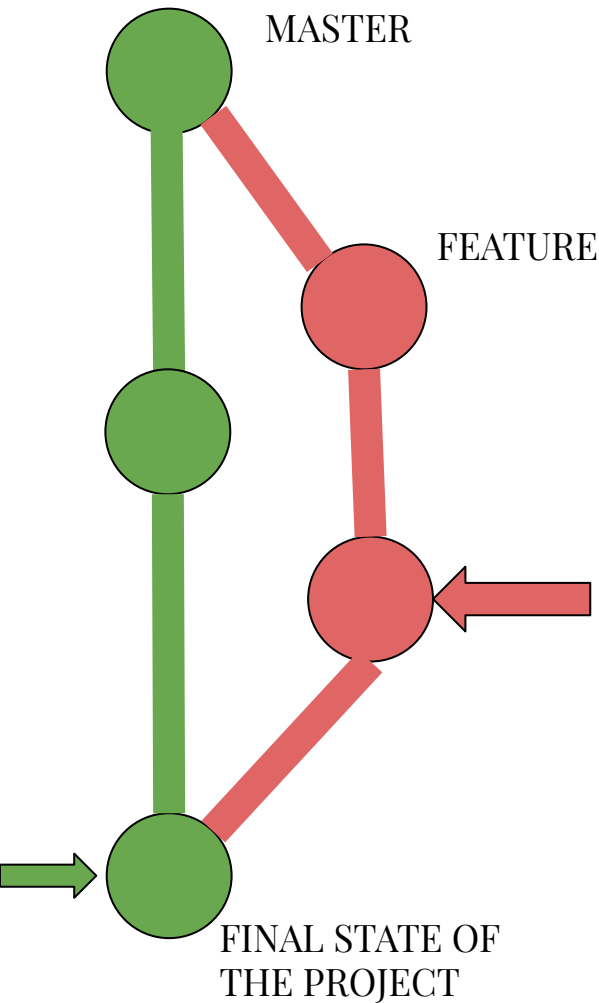
- 1) Merge
- 2) Rebase

When you do rebase a feature branch onto master, you move the base of the feature branch to master branch's ending point.

Merging takes the contents of the feature branch and integrates it with the master branch. As a result, only the master branch is changed. The feature branch history remains same.

Merging adds a new commit to your history.

MERGE



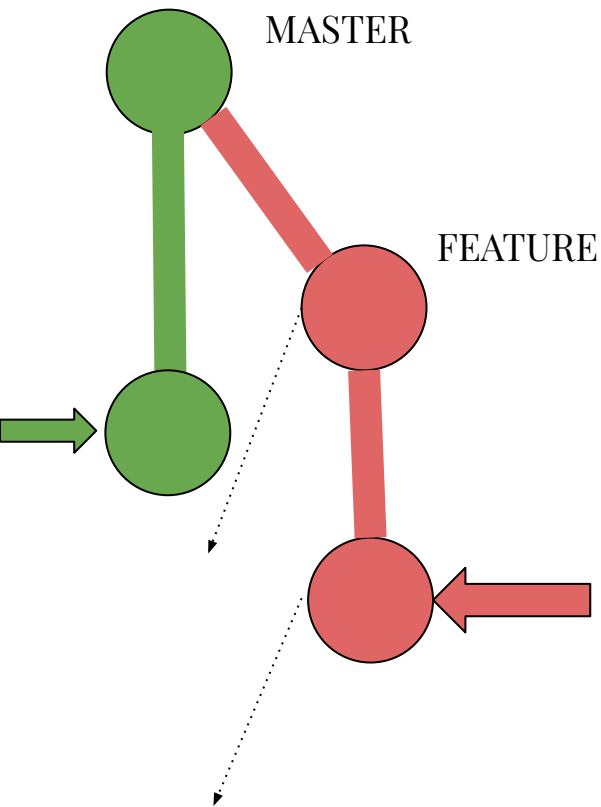
In merging, an additional merge commit is created,

Branch history is preserved.

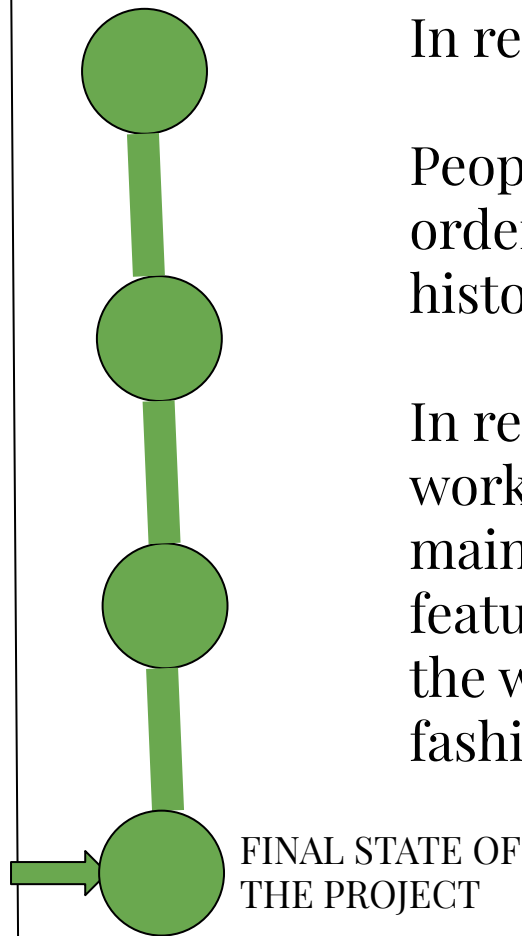
Here, arrows represent HEAD for the branches.

Green - Master branch
Pink - Feature Branch

REBASE



BEFORE



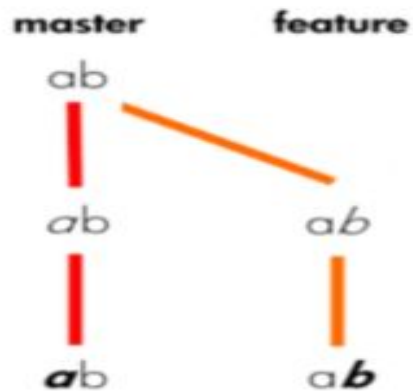
AFTER

In rebasing, we rewrite history.

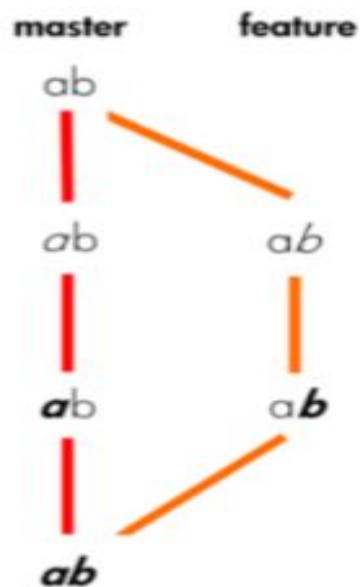
People use this approach in order to have a clean commit history.

In rebasing, it appears as if the work was done on the main/base branch instead of the feature branch. It appears as if the work was done in a linear fashion.

Commits



Merge



Rebase

