What's the difference between merge and rebase in git?

➢ **W**hen you rebase your branch onto their branch, you tell Git to make it look as though you checked out their branch cleanly, then did all your work starting from there. That makes a clean, conceptually simple package of changes that someone can review. You can repeat this process again when there are new changes on their branch, and you will always end up with a clean set of changes "on the tip" of their branch.

➢ **W**hen you merge their branch into your branch, you tie the two branch histories together at this point. If you do this again later with more changes, you begin to create an interleaved thread of histories: some of their changes, some of my changes, some of their changes. Some people find this messy or undesirable.

➕ **Git rebase is closer to a merge. The difference in rebase is:**

- **t**he local commits are removed temporally from the branch.
- **r**un the git pull
- **i**nsert again all your local commits.

➢ **S**o that means that all your local commits are moved to the end, after all the remote commits. If you have a merge conflict, you have to solve it too.