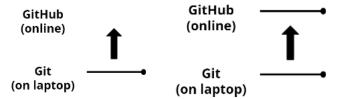
LECTURE 0: GIT

1) Github vs Git

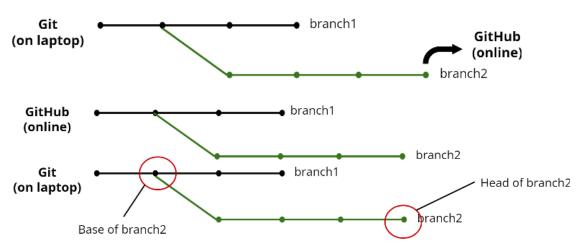
- a) Github(browser): website to backup files online
- b) Git(terminal): version control system
- Backup work: Creating regular commits(save points) and pushing them to Github
 - Laptop destroyed- > only lose things not committed to Github



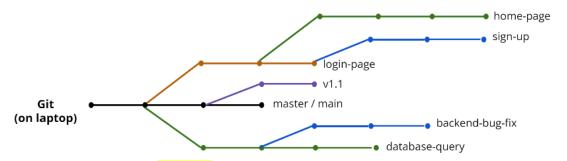
2) Github vs Git

a) Want to preserve both versions of history and overwrite if we wanted to

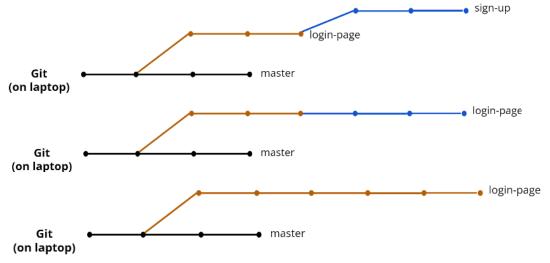




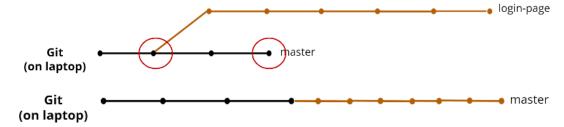
ii) Can have multiple branches, but one of them has to be the primary one: "master" or "main" branch and can name others branches anything



- b) Clean up branches by merging them with master/main branch or each other
 - i) If the base of one branch is the head of another, simply append



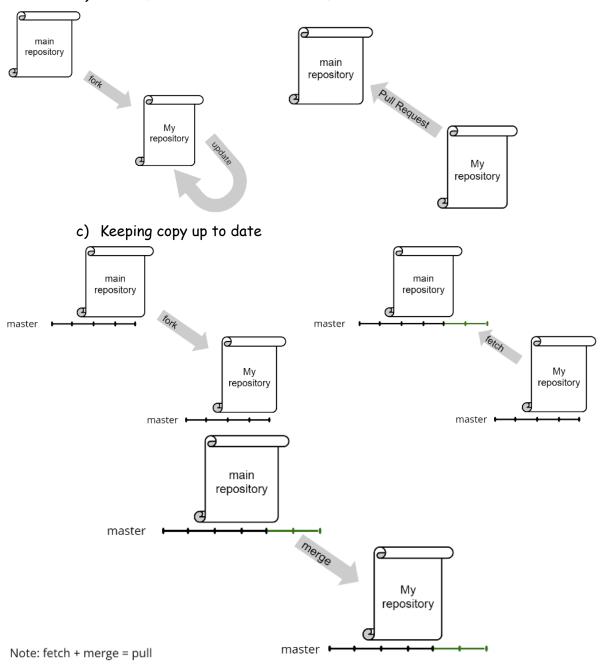
ii) If not the head of another branch, commits can conflict with each other. Need to change base of login-page branch(rebase) to head of master branch.

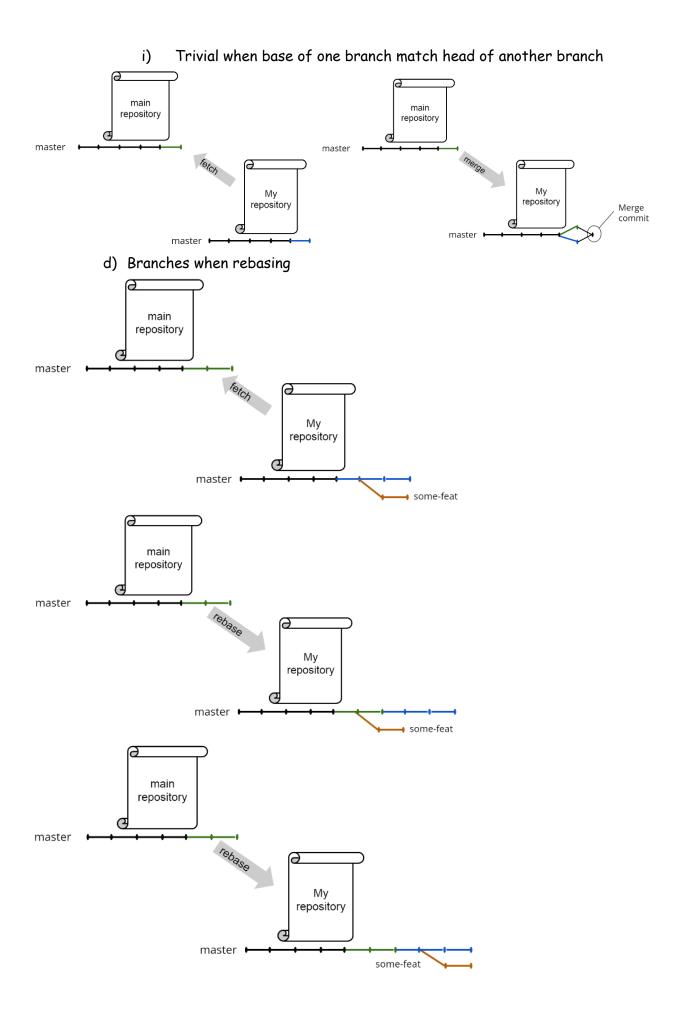


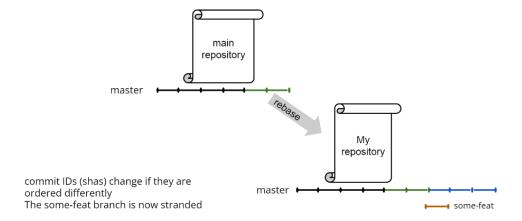
(1) Often manual intervention is needed to resolve conflicts

3) Collaboration

- a) Steps:
 - i) Make a copy of main repository -> fork
 - ii) Make all changes wanted on copy
 - Request part of copy to be merged into main repository via Pull Request(PR)
- b) Base of one branch match head of another branch







Rule: Always create new branch when developing and never commit directly to master branch