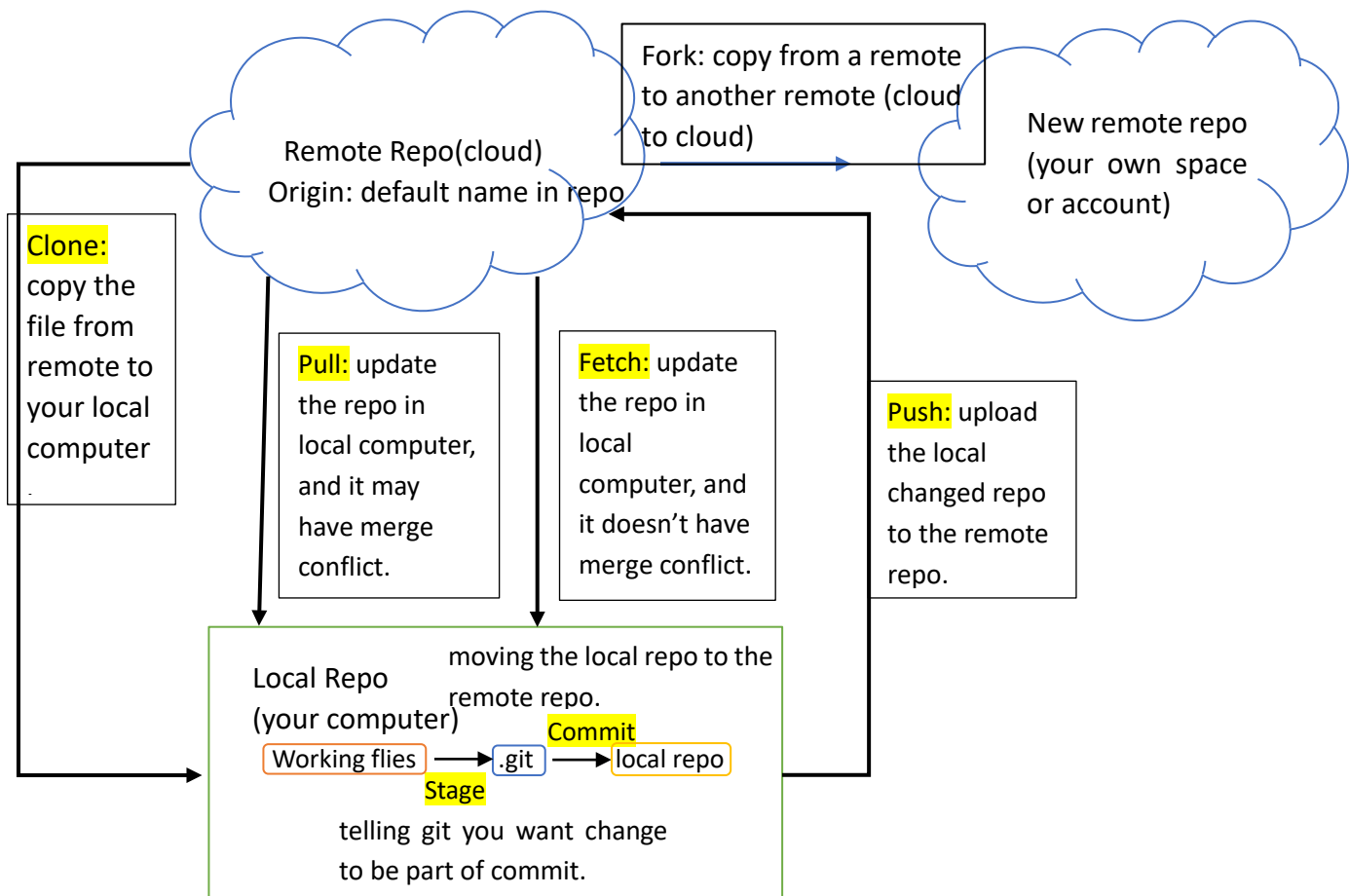Git: A version control software, we can see the changes of the files and people can collaborate on a file.

Github: A website, like a remote location to place the files.

Repo: Like a file, but the format is .git

Fork: copy from a remote to another remote (cloud to cloud)

New remote repo (your own space or account)

Remote Repo(cloud)
Origin: default name in repo

Clone: copy the file from remote to your local computer.

Pull: update the repo in local computer, and it may have merge conflict.

Fetch: update the repo in local computer, and it doesn't have merge conflict.

Push: upload the local changed repo to the remote repo.

Local Repo (your computer)

moving the local repo to the remote repo.

Working flies ⟶ .git ⟶ local repo

Stage

Commit

telling git you want change to be part of commit.

Pull request: When we change repo in local computer and we want to push the changed repo back to the repository, we want the changes update to the repository then need a pull request. Pull request can show the differences line by line between the changed repo and the old one.

Branches: The collaborators can do different parts of the project and then can merge the different branches into the master branch, which is efficiency and convenient to collaborate.

branch

merge

main