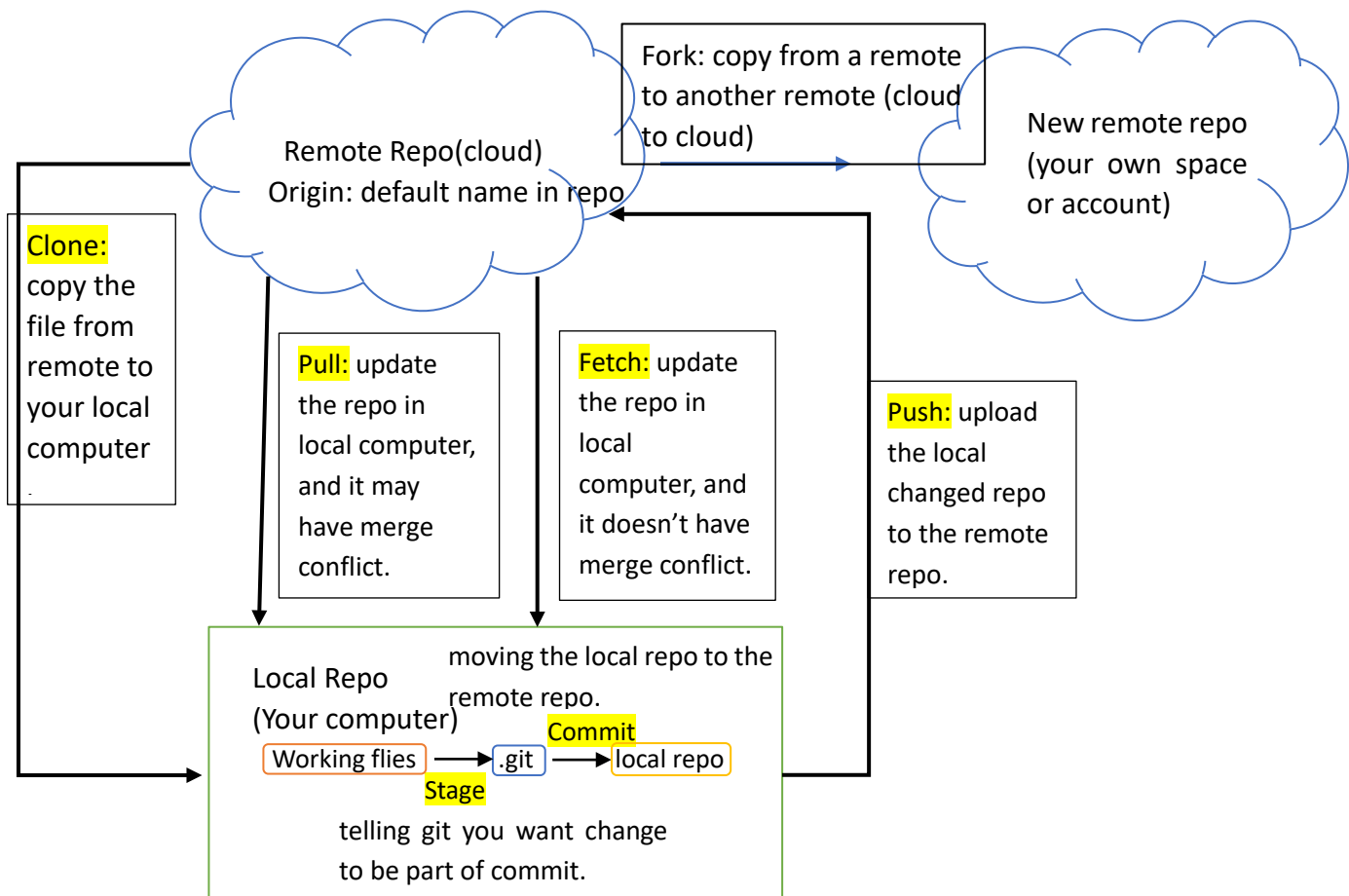Git: A version control software, we can see the changes of the files and people can collaborate on a file.

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

Commit

Stage

telling git you want change to be part of commit.

Pull request: When we change repo in local computer or our own remote repo, and we want to push the changed repo back to the repository, which is merge our branch into the origin, then we need a request, and our changes will be reviewed.

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