

# Github

## — Versioning

Normal :      `code_v1.py`      — SVM  
                 `code_v2.py`      — KNN

Git :      `code.py` { History

## — Collaboration

Multiple people editing same set of files

“Efficient merging”

## — Community

— Showcasing your projects

“Virtual Resume”

# Version Control Systems (VCS)

Two popular VCS Servers

① Github ✓

② Bitbucket

## Structure

Local  
file



Server  
file

## Local Directory

## VCS Server

Changed  
file.py



Staged  
file.py



Committed  
file.py



Server  
file.py

git add  
file.py

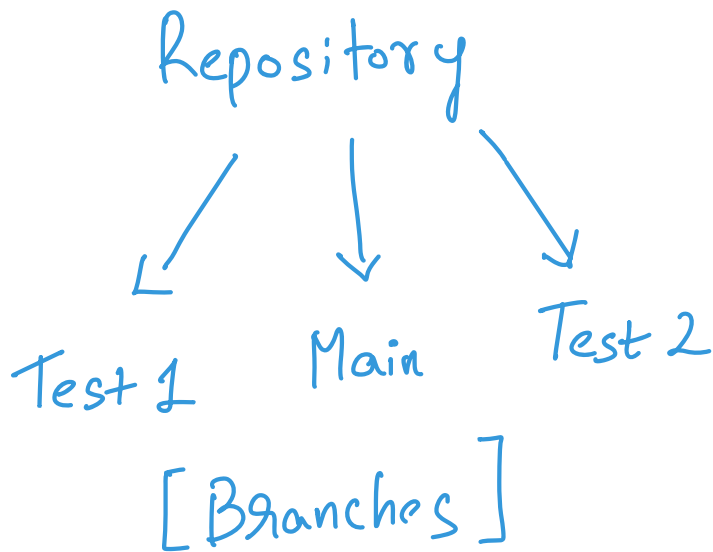
git commit  
-m "message"

git push  
origin main

keeps  
track of  
the file

Letter → Added to envelope → Seal the envelope → Sent via post

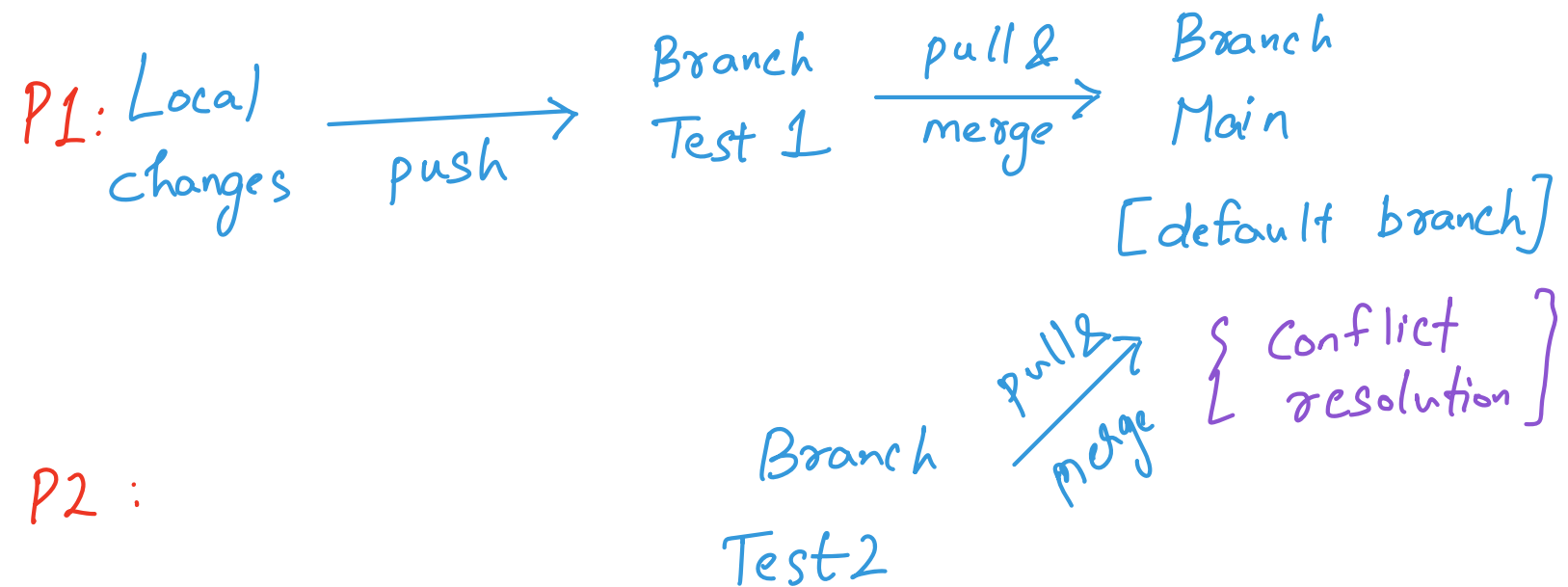
# Server Structure



[Directory]

Think of them  
as separate features

## Typical workflow



## Few more commands

- ① `git status`
  - To find which are modified & which are staged.
- ② `git checkout -b <branch>`
  - Change your working branch locally
- ③ `git config --global user.name "Name"`  
`git config --global user.email "email"`
- ④ `git remote add origin <repo link>`