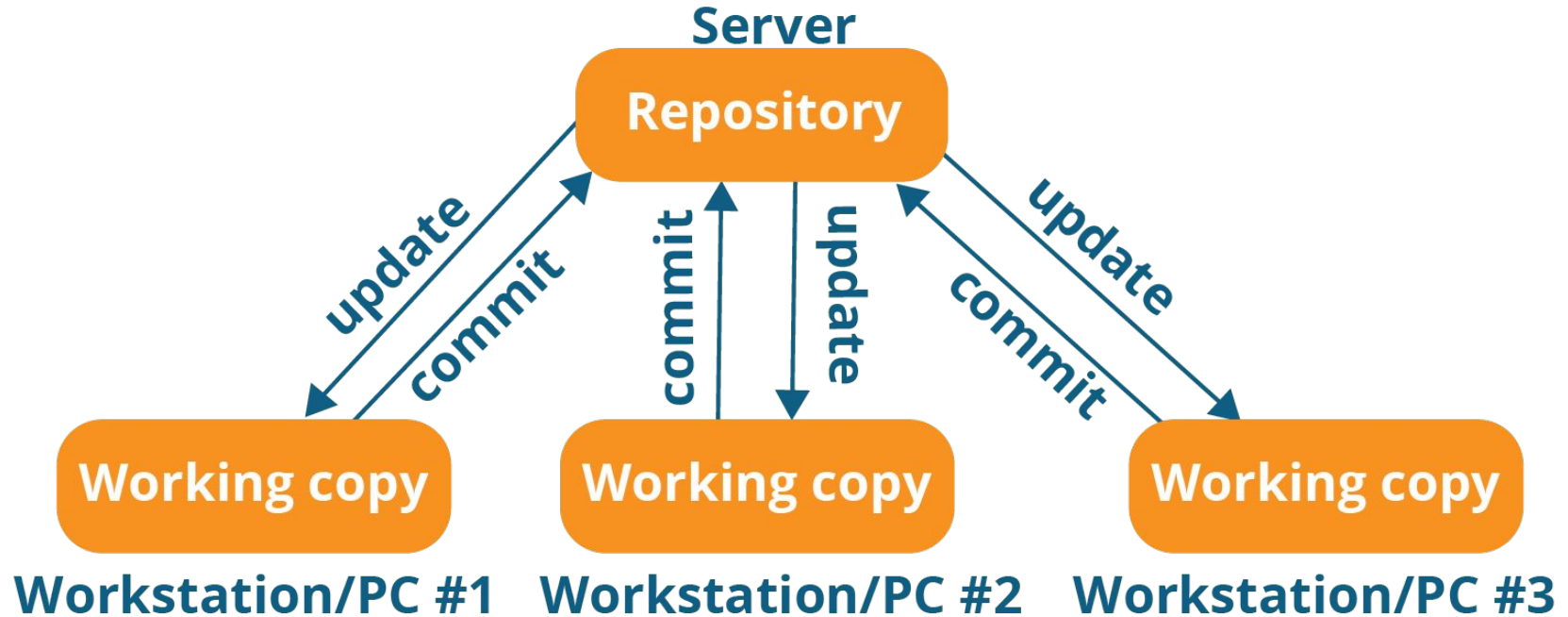# GIT

- What is GIT
- What is GIT HUB
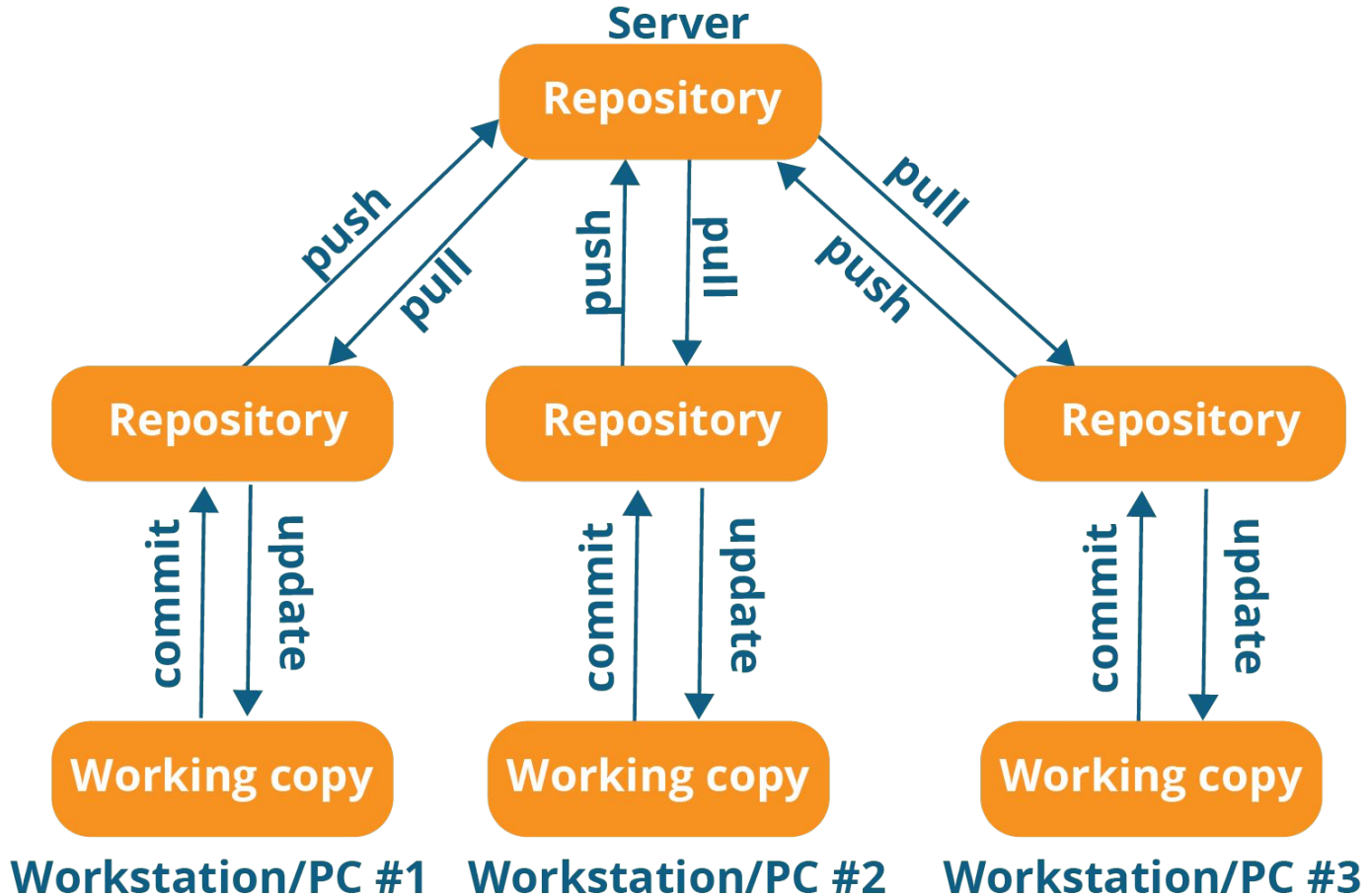- Is GIT related to GIT HUB

- Version control system
  - To track changes in files / folder
  - To collaborate in team
  - Free and open source
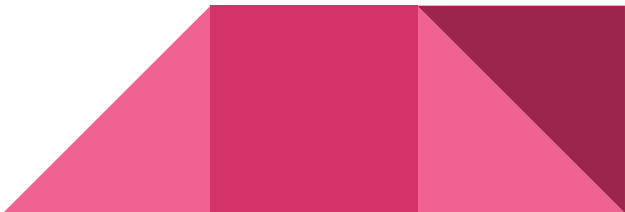
- Types
  - Centralised VCS
  - Distributed VCS

Centralized version control system

Server

Repository

update · commit

commit · update

update · commit

Working copy

Working copy

Working copy

Workstation/PC #1　　**Workstation/PC #2**　　**Workstation/PC #3**
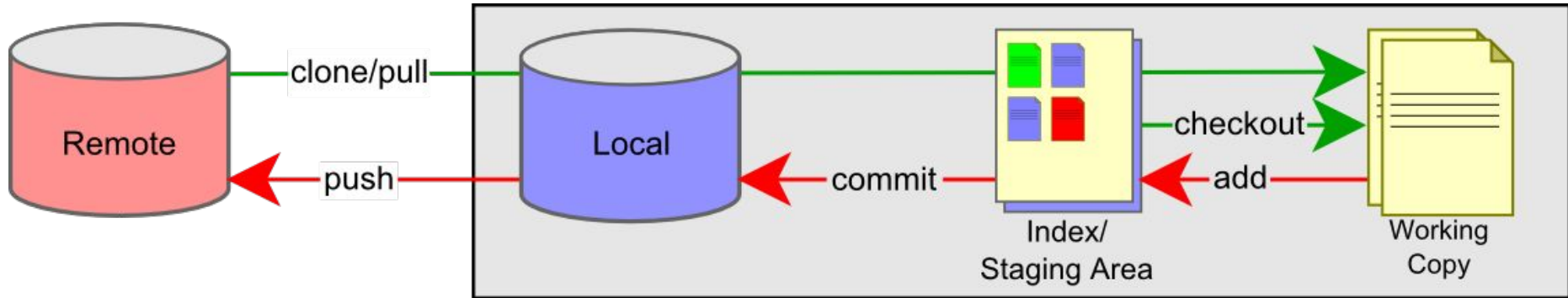
Distributed version control system

- GIT = DVCS

- GIT HUB
  - Website to upload your repositories online.
  - Provides backup
  - Provides visual interface to your repo
  - Makes collaboration easier

- GIT != GIT HUB

GIT Workflow

Step 1: Check if git is already installed.

     git --version

Step 2: Download and install git

Step 3: Signup and create a account on GitHub

Step 4: Add your github email and username to git

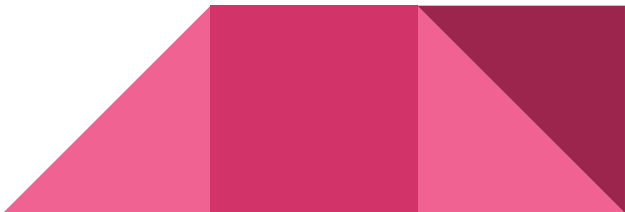   git config --global user.email "name@email.com"

     git config --global user.name "name"

Step 5: Add file/folder to git for tracking

     cd/folderPath/

Commands

- Go to the location of the folder/project
- git init
- git status
- git add
- git commit -m "your message"
- git remote add origin "location of remote repo"
- git push -u origin master
- git log
- git --help

Steps to add Eclipse project to GitHub

- Start Eclipse.
- Goto Perspective> Git Repositories> Click on add Git Repo.
- Add URL of the repo.
- Create a project in Eclipse.
- Right click on Project>Team>Share>Add to git repo.
- Commit and Push the project to the repo.
- Commit and Push every change to the repo.

https://www.screencast.com/t/kiXundXSyVu
https://www.screencast.com/t/uABHfN1bFj