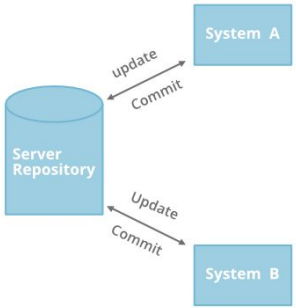
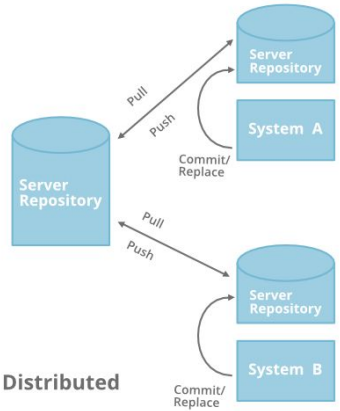
GIT

Dayana Edwin
Devi Gopinath
Rashad K

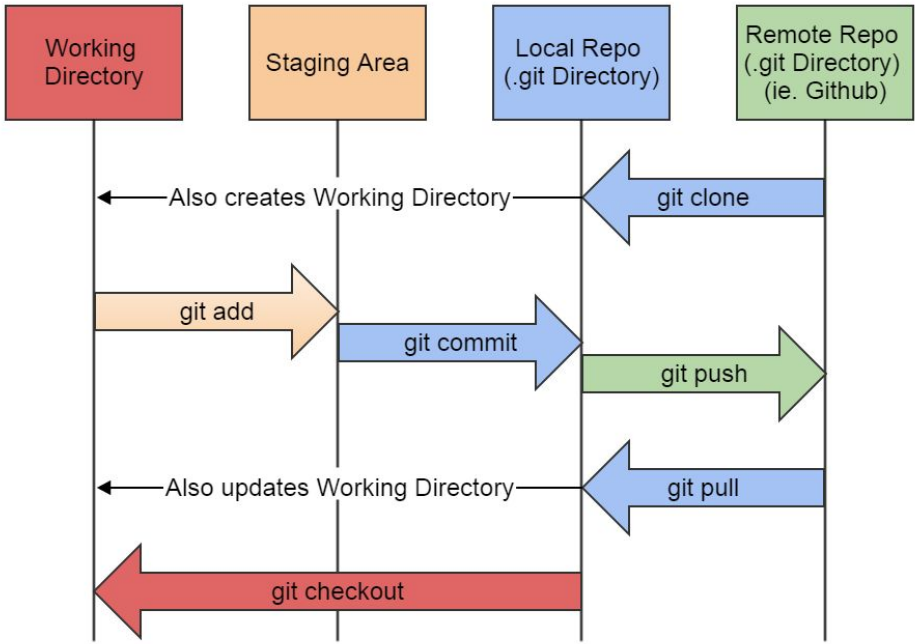
Version Control System

- Record changes to a file
- Track Project History
- Nearly every operation is local
- GIT comes under the distributed version control system





Workflow


Working Directory
Staging Area
Local Repo (.git Directory)
Remote Repo (.git Directory) (ie. Github)
Also creates Working Directory
git clone
git add
git commit
git push
Also updates Working Directory
git pull
git checkout

GIT Commands

- git init- create a new local GIT repository
- git add ./ git add <filename>- add the changes to the staging area
- git commit -m “message”-commit changes to local repo
- Git show <commit>- shows the metadata and content changes of the specified commit
- git reset <commit>- undoes all the commits after the specified commit
- git remote add origin <server>- clone an existing remote repo with a local repo
- git push -push changes to remote repository
- git clone <path to repository>- to obtain a local copy of a remote repository
- git rm <file>- deletes a file

GIT Commands

- git branch- shows the list of branches in the current repository
- git branch<branchname>- to create a new branch
- git checkout <branchname> -to switch to a new branch
- git branch -d <branchname>- delete the branch
- git merge<branch>-to merge another branch into your active branch

GIT Commands

- git log- used to list the version history for the current branch
  - git log --all
  - git log -<n>
  - git log --author=<name>
  - git log --before <date>
  - git log --after <date>
  - git log --oneline
- git tag- used to give tags to the specified commit
  - git tag -a <tagname> -m <tagmessage> - annotated tag
  - git tag -a <tagname>.-lw -light weight tag
  - git tag
- git show - Outputs metadata and content changes of the specified commit
  - git show HEAD
  - git show HEAD~<n>
- git pull <repo link>-fetches and merges changes on the remote directory to your working directory