Git, a version control system, tracks changes in files and coordinates work on those files among multiple people. Other VCS are Subversion or Mercurial. git blame git blame <file> shows what revision and author last Initialisation modified each line of a file. git clonegit diff git clone <url> clones an existing repository into new git diff lists unstaged changes. directory. git diff <commit> lists changes between workspace and the commit. git diff <commit> <commit> showsgit init changes between two commits. Above commands git init creates an empty Git repository. work with **
branch>** in place of **<commit>** too. git diff --cached shows changes to staged files. Introducing changes git loggit add git log shows full version history. git add <file> stages a file. git log -p <file> shows file's change history. git add -p <file> stages a file interactively. git log --follow <file> includes renames. git log --oneline shows compact history.git commit git log --all --decorate --oneline --graph git commit -m commits staged files with a message. git commit -- amend modifies a commit (and rewrites git show history!) git show <commit>:<file> shows contents of a file. **Branches** git status git status lists new and modified files. git branch git branch lists all local branches. **Undoing changes** git branch -av lists all local and remote branches. git reset git branch
 creates a new branch. git reset <file> unstages file but keeps the changes. git branch -d
branch> deletes a branch. git reset --hard <file> throws away all local changes. git branch -- contains < commit> lists branches with given commit. git revert git revert < commit> undoes a commit.git checkout git checkout
branch> switches to an existing branch (Re)moving and updates working directory. git mv moves. git checkout -b
branch> creates a new branch and switches to it. git rm removes. git checkout --orphan

 chanch> ?. **Syncronising** git chery-pick git fetch git cherry-pick <commit> adds a commit on top of git fetch < remote > gets the latest changes from origin current branch. without merge.git merge git pull git merge
 branch> merges all changes into current git pull <remote> <branch> fetches latest changes branch. Combined with fetch almost equals pull. and merges git merge --abort?. git pull -- rebase fetches latest changes and rebases. git pushgit rebase git push <remote> <branch> pushes local changes to git rebase
 rebases: reapplies commits on origin top of another base tip. git rebase -i HEAD~<number> rebases interactively. **Various** git rebase abort git tag git remote git tag <tagname> tags the current commit. git remote -v lists tracked remote repositories. git remote show < remote > shows information about remote repository. git remote add <name> <url> adds a new remote repository.

Observing changes