

git developed by Linus Torvalds

https://en.wikipedia.org/wiki/Linus_Torvalds



WHAT IS GIT?

Version Control System (VCS) for tracking changes in computer files



- ✓ Distributed version control
- ✓ Coordinates work between multiple developers
- ✓ Who made what changes and when
- ✓ Revert back at any time
- ✓ Local & remote repos

CONCEPTS OF GIT

- √ Keeps track of code history
- √ Takes "snapshots" of your files
- ✓ You decide when to take a snapshot by making a "commit"
- ✓ You can visit any snapshot at any time
- ✓ You can stage files before committing

BASIC COMMANDS

- \$ git init
- \$ git add <file>
- \$ git status
- \$ git commit
- \$ git push
- \$ git pull
- \$ git clone

- // Initialize Local Git Repository
- // Add File(s) To Index
- // Check Status Of Working Tree
- // Commit Changes In Index
- // Push To Remote Repository
- // Pull Latest From Remote Repository
- // Clone Repository Into A New Directory

INSTALLING GIT

- √ Linux (Debian)
 - \$ sudo apt-get install git
- √ Linux (Fedora)
 - \$ sudo yum install git
- ✓ Mac
 - http://git-scm.com/download/mac
- √ Windows
 - http://git-scm.com/download/win

Some other commands

- git config --global user.name ''
- git config --global user.email ''
- git branch login
- git checkout login
- git checkout master
- git merge
- git clone
- Avoid entering password you can use ssh keys

Terminal – Unix based systems

Termina – Unix based systems like Linux or MAC Basic Commands:
cd – change directory
cd .. Move to previous directory
mkdir – make a directory
ls – to list all files in a directory

Is –all – to list details

touch – to create a file

rm – to remove files or folders

Many more

Command line (CMD) - Windows

- dir to list files or folders in a folder
- cd change folder
- Many more

Text Editors

- Notepad
- Notepad++
- Atom
- Sublime Text
- vi (I for insert and to write and quit :wq)

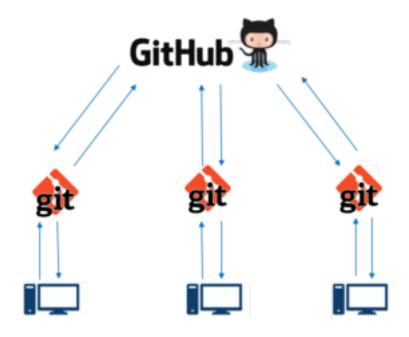
.gitignore - file

• To avoid uploading system, logs and other related files.

Remote Repository

- GitHub recently purchased by Microsoft
- BitBucket
- Many more.....

How git and GitHub work?



Branching

