# Git States:

Remote Github

**Local**

Repository (.git Folder)

Staging Area

Working directory

# Git download:

<http://git-for-windows.github.io/>

git location

C:\Users\h7853\AppData\Local\Programs\Git

# commands

to get version : Git version

to close: exit

pwd : it will be defeault user directory

mkdir projects

cd projects

to configure user and name:

git config –global user.name “Preethi”

git config –global user.email “p3.venkatesan@gmail.com”

to test if config is successful

git config –global --list

clone repository from github to local desktop

git clone (paste github url)

# list content of current directory - **ls**

goto cd “repositoryname” and check if readme file is present using “LS”

git status => tell where I am (on branch master) – it also tells us if branch is up-to-date and if thereis anything to commit

create new file

echo “test git demo” >> start.txt

ls – to see the file

to see contents of the file

cat start.txt

git status: untracked file(file present in working directory not added to local repository)

To add a file in local drive to git local repository

git add start.txt

git add . ( adds all files)

no git status will tell us “ Changes to be committed”- meaning the file is in staging area

**staging area : it accumulates multiple changes so they can be moved to the repository as single atomic unit to be retained in history**

to recursively remove folder

rm -r **folder**-name.

to commit

git commit –m “Adding Start text file”

Status => Nothing to commit; Working directory clean

On branch master : your branch is ahead of origin/master by 1 commit.

So in this stage, new file is on local (.git) repository.

To push to github

Git push origin master

“origin” => origin refers to github copy of our repository

“master” => only branch

Prompts for github “user name” and password

# To create repository and sync in with local system

**Github.com** – to access central repository

Click Weird sign – create new repository (words separated by dashes)

Check Initialize this repository with readme

Select clone or download and copy link

https://github.com/preethiv07/Certificates.git

1. Create new repository >

# Prepare local system to connect to github (CLONING repository from github into local system)

Use git bash for windows

-make sure https on low right side. Copy the link

Within CMD -git clone (paste github url)

# Configure notepad++ to use git

Goto git bash : notepad++ (git says command not found)

Exit

1. Search where notepad++ is installed (program files(x86))- look notepad++ is present.
2. Get the file path. Copy the location
3. This PC > properties > advanced system settings > environmental variables >
4. Under path. Variable value (goto end).
5. Add ; and paste the path.
6. Now go back to git bash. Type notepad++. It should launch

Integrate notepad++ with git by creating alias

Git bach => **notepad++ .bash\_profile**

**Alias npp=’notepad++.exe –multiInst –nosession”**

Save the file (ctrl+w) –exit

Exit gitbash- relaunch

**Npp** => notepad++ should launch

**Cat ~/.gitconfig** => to see the configuration

To setup notepad++ as default application for github

Git config –global core.editor “notepad++.exe –multiInst –nosession”

Git config –global –e => to edit the config file(it should open in notepad++)

# Basic Commands

1. Starting project

Fresh (no source )

Existing source locally

Github project (fork and cloning)

2) Basic workflow (add, commit, edit,push and pull)

3) Working with files (rename, move & delete)

# Issue & Resolution

## **Problem**

The following is seen on the command line when pushing or pulling:

SSL Certificate problem: unable to get local issuer

## **Cause**

This error occurs when a self-signed certificate cannot be verified.

## **Workaround**

Tell git to not perform the validation of the certificate using the global option:

git config --global http.sslVerify false

# Links

Markdown language syntax

<https://guides.github.com/features/mastering-markdown/>