Learn Git

This document provides a quick over view of Git and GitHub. A quick hands-on book for beginner.

Learn Git & GitHub

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# **Learn Git**

## **Step-1:**

Create a Repository in Git Hub

Let’s Create a Repo named LearnGit

The remote url for the LearnGit is: https://github.com/NaveenSilvester/LearnGit.git

## **Step-2:**

Create a folder in your local computer and name it as LearnGit

## **Step-3:**

Open Command Prompt and navigate into the newly created folder named LearnGit on your local computer

## **Step-4:**

Initiate Git by typing the following command

git init

You will get a message stating

"Initialized empty Git repository in E:/NaveenLearnings2025/LearnGit/.git/"

## **Step-5:**

Adding remote repo to local directory by typing this command on your local computer's command prompt

Note: You need to provide the git URL tha you obtained from Step-1

git remote add origin https://github.com/NaveenSilvester/LearnGit.git

## **Step-6:**

Make a pull request from Remote directory so that local directory is in sync with the latest files in Remote dirctory

git pull origin main

Note: You will get some message like the below:

remote: Enumerating objects: 3, done.

remote: Counting objects: 100% (3/3), done.

remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)

Unpacking objects: 100% (3/3), 863 bytes | 3.00 KiB/s, done.

From https://github.com/NaveenSilvester/LearnGit

 \* branch            main       -> FETCH\_HEAD

 \* [new branch]      main       -> origin/main

## **Step-7:**

 View the Local Directory (LearnGit) and you will see the files from Remote directory copied into your local directory

## **Step-8:**

 Create a new file in your remote Directory and call the file as README.md

 Type some contents into this README.md file

## **Step-9:**

Check the Branch name of the Current Git folder

git branch

Note: You may see the branch as Master

\* master

## **Step-10:**

Rename the branch master to main (so that the names are consistent across Git and Github remote directory)

git branch -M master main

## **Step-11:**

Check the Branch name of the Current Git folder

git branch

Note: You will see the following message

\* main

## **Step-12:**

 Checking the Status of Git local directory

  git status

 You will see a new message:

 On branch master

Changes not staged for commit:

  (use "git add <file>..." to update what will be committed)

  (use "git restore <file>..." to discard changes in working directory)

        modified:   README.md

no changes added to commit (use "git add" and/or "git commit -a")

## **Step-13:**

Staging the files

git add \*

## **Step-14:**

 Checking the Status of Git local directory

 git status

 You will see a new message:

 On branch main

Changes to be committed:

  (use "git restore --staged <file>..." to unstage)

        modified:   README.md

## **Step-15:**

Committing the staged files

git commit -m "My First Commit"

Note: You will see a message something like the one below:

[main 3dd7301] My First Commit

 1 file changed, 48 insertions(+), 2 deletions(-)

## **Step-16:**

Pushing the Change to remote directory

git push origin main

Note: You will see some message similar to the below one:

Enumerating objects: 5, done.

Counting objects: 100% (5/5), done.

Delta compression using up to 4 threads

Compressing objects: 100% (2/2), done.

Writing objects: 100% (3/3), 994 bytes | 994.00 KiB/s, done.

Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)

To https://github.com/NaveenSilvester/LearnGit.git

   17a9586..3dd7301  main -> main

## **Step-17:**

Login to Git but and get to the repository LearnGit

You will see the README.md file updated into remote directory

## **Step-18: (Git Branching by creating a new branch named feature-login)**

git branch feature-login

## **Step-19:**

Check the branches

git branch

Note: You will see this message on the screen

feature-login

\* main

## **Step-20: Change Branch from main to feature-login**

git switch main

git branch

Note: You will see this message on the screen

\* feature-login

Main

## **Step-21: Create a new file named “GitCommands.docx”**

Add some contents to the file

git add \*

git commit -m “Added to feature-login”

git push origin feature-login

## **Step-22: The file GitCommads.docx gets added to the remote directory under the newly created branch “feature-login”**

You will see on the GitHub that the file GitCommands.docx available under the branch feature-login and not under main

## **Step-23: Creating a Pull Request**

Go to GitHub and create a new pull request and then select the feature branch that you would need to merge and then submit it. A pull request will be created and the system will show if there are any conflicts. If there are conflicts one needs to review and approve the right changes and then click on merge request.

## **Step-24: On merging the feature-login branch with main. You will see the files reflecting on to main branch.**