# Steps to interact with Git.

* clone

Bring/download a repository hosted somewhere like GitHub into a folder on your local machine.

* add

Track files and changes using Git.

* commit

Save files to Git.

* push

Upload Git commits to a remote repository such as GitHub.

* pull

Download changes from a remote repository to your local machine (the opposite of push).

To add the remote GitHub repo. to your local Git

git remote add origin <https://github.com/vicdaniel/TestGit.git>

Now verify the remote repo. Just added.

git remote -v

See the screenshot following.

Graphical user interface, text, application, email

Description automatically generated

git pull origin master –allow-unrelated-histories

# Push a Newly Created Git Project to GitHub

Vic Daniel@DevWS03 MINGW64 ~

$ pwd 🡸

/c/Users/Vic Daniel

Vic Daniel@DevWS03 MINGW64 ~

$ cd TestGit/ 🡸

Vic Daniel@DevWS03 MINGW64 ~/TestGit

$ ls -al 🡸

total 125

drwxr-xr-x 1 Vic Daniel 197610 0 Mar 1 13:18 ./

drwxr-xr-x 1 Vic Daniel 197610 0 Feb 26 16:54 ../

-rw-r--r-- 1 Vic Daniel 197610 24 Feb 26 16:32 .gitignore

-rw-r--r-- 1 Vic Daniel 197610 94924 Feb 26 21:10 'Interacting with Git.docx'

-rw-r--r-- 1 Vic Daniel 197610 10 Feb 26 23:31 README.md

-rw-r--r-- 1 Vic Daniel 197610 19 Feb 26 16:20 Test1.txt

-rw-r--r-- 1 Vic Daniel 197610 27 Feb 26 16:54 Test2.txt

-rw-r--r-- 1 Vic Daniel 197610 39 Feb 26 16:29 TopSecret.per

Vic Daniel@DevWS03 MINGW64 ~/TestGit

$ git init 🡸

Initialized empty Git repository in C:/Users/Vic Daniel/TestGit/.git/

Vic Daniel@DevWS03 MINGW64 ~/TestGit (master)

$ ls -al 🡸

total 128

drwxr-xr-x 1 Vic Daniel 197610 0 Mar 1 13:32 ./

drwxr-xr-x 1 Vic Daniel 197610 0 Feb 26 16:54 ../

drwxr-xr-x 1 Vic Daniel 197610 0 Mar 1 13:32 .git/

-rw-r--r-- 1 Vic Daniel 197610 24 Feb 26 16:32 .gitignore

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-rw-r--r-- 1 Vic Daniel 197610 19 Feb 26 16:20 Test1.txt

-rw-r--r-- 1 Vic Daniel 197610 27 Feb 26 16:54 Test2.txt

-rw-r--r-- 1 Vic Daniel 197610 39 Feb 26 16:29 TopSecret.per

Vic Daniel@DevWS03 MINGW64 ~/TestGit (master)

$ git add \*.txt 🡸

Vic Daniel@DevWS03 MINGW64 ~/TestGit (master)

$ git status 🡸

On branch master

No commits yet

Changes to be committed:

(use "git rm --cached <file>..." to unstage)

new file: Test1.txt

new file: Test2.txt

Untracked files:

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

.gitignore

Interacting with Git.docx

Vic Daniel@DevWS03 MINGW64 ~/TestGit (master)

$ git add \*.docx 🡸

Vic Daniel@DevWS03 MINGW64 ~/TestGit (master)

$ git status 🡸

On branch master

No commits yet

Changes to be committed:

(use "git rm --cached <file>..." to unstage)

new file: Interacting with Git.docx

new file: Test1.txt

new file: Test2.txt

Untracked files:

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

.gitignore

Vic Daniel@DevWS03 MINGW64 ~/TestGit (master)

$ git commit -m "Initial commit" 🡸

[master (root-commit) 24524b4] Initial commit

3 files changed, 3 insertions(+)

create mode 100644 Interacting with Git.docx

create mode 100644 Test1.txt

create mode 100644 Test2.txt

Vic Daniel@DevWS03 MINGW64 ~/TestGit (master)

$ git remote add origin <https://github.com/vicdaniel/TestGit.git> 🡸

Vic Daniel@DevWS03 MINGW64 ~/TestGit (master)

$ git push -u origin master 🡸

Enumerating objects: 5, done.

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

Delta compression using up to 8 threads

Compressing objects: 100% (3/3), done.

Writing objects: 100% (5/5), 84.76 KiB | 10.59 MiB/s, done.

Total 5 (delta 0), reused 0 (delta 0), pack-reused 0

To https://github.com/vicdaniel/TestGit.git

\* [new branch] master -> master

branch 'master' set up to track 'origin/master'.

Vic Daniel@DevWS03 MINGW64 ~/TestGit (master)

$

**The sequence of *effective* commands was:**

1. git init to initialize the Git repository (repo). This created the .git directory.
2. Repeated use of the git add <filename> command to individually select files to be staged. We could have used git add . to add all the files to be staged then deselected the ones which we did not want to be staged using git rm –cached <file>….
3. git commit -m "Initial commit" to commit the staged files to Git.
4. git remote add origin <https://github.com/vicdaniel/TestGit.git> was then used to identify the GitHub https remote repository. The GitHub URL was obtained from GitHub’s green Code dropdown button.
5. git push -u origin master to upload the files to GitHub.