Init:

It creates a new repository or a subdirectory

Add . :

Adds a change in the working directory to the staging area

Status:

Shows status of the repository

Commit:

```
C00297358@CD-A307-13 MINGW64 /c/Users/C00297358/Desktop/Git (Robert Iovu) (master)
$ git commit -m "first commit"
[master (root-commit) ba4bd99] first commit
 Committer: (Student  C00297358) Robert Iovu <C00297358@setu.ie>
Your name and email address were configured automatically based
on your username and hostname. Please check that they are accurate.
You can suppress this message by setting them explicitly. Run the
following command and follow the instructions in your editor to edit
your configuration file:

    git config --global --edit

After doing this, you may fix the identity used for this commit with:

    git commit --amend --reset-author

 2 files changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 Git.docx
 create mode 100644 ~$Git.docx
```

Remote:

Creates link between pc and repository

```
C00297358@CD-A307-13 MINGW64 /c/Users/C00297358/Desktop/Git (Robert Iovu) (main)
$ git remote add origin https://github.com/PeterLowe/git-one-Robert-Iovu.git

C00297358@CD-A307-13 MINGW64 /c/Users/C00297358/Desktop/Git (Robert Iovu) (main)
$ git push -u origin main
info: please complete authentication in your browser...
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 16 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (4/4), 318 bytes | 318.00 KiB/s, done.
Total 4 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/PeterLowe/git-one-Robert-Iovu.git
 * [new branch]      main -> main
branch 'main' set up to track 'origin/main'.
```

Push:

Uploads local repository content to a remote reposition

```
rober@ACE_Legion MINGW64 ~/OneDrive/Desktop/Git (Robert Iovu) (main)
$ git push
Enumerating objects: 8, done.
Counting objects: 100% (8/8), done.
Delta compression using up to 20 threads
Compressing objects: 100% (5/5), done.
Writing objects: 100% (5/5), 4.86 KiB | 710.00 KiB/s, done.
Total 5 (delta 3), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (3/3), completed with 3 local objects.
To https://github.com/PeterLowe/git-one-Robert-Iovu.git
   65d52ed..28be7ba  main -> main
```

Branch:

Allows to work on different parts of a project without affecting the main branch

```
rober@ACE_Legion MINGW64 ~/OneDrive/Desktop/Git (Robert Iovu) (main)
$ git branch
* main
```

Checkout:

Allows to navigate between branches

```
rober@ACE_Legion MINGW64 ~/OneDrive/Desktop/Git (Robert Iovu) (main)
$ git checkout
Your branch is up to date with 'origin/main'.
```

Merge:

Puts a forked history back together again

```
rober@ACE_Legion MINGW64 ~/OneDrive/Desktop/Git (Robert Iovu) (main)
$ git merge
Already up to date.
```

Log:

Displays all of the commits in a repository's history

```
rober@ACE_Legion MINGW64 ~/OneDrive/Desktop/Git (Robert Iovu) (main)
$ git log
commit 22bdaafa7211710f35c731c47172e55ac470a220 (HEAD -> main, origin/main)
Author: Robert Iovu <c00297358@setu.ie>
Date:   Mon Oct 23 17:24:27 2023 +0100

    Git.docx

commit 5dde1e0209874dc909e5f517654be830b145cfba
Author: Robert Iovu <c00297358@setu.ie>
Date:   Mon Oct 23 17:21:10 2023 +0100

    Script.txt

commit 604913ce25ded6a9849595988c6419e65a514c79
Author: Robert Iovu <c00297358@setu.ie>
Date:   Mon Oct 23 17:18:29 2023 +0100

    Git.docx

commit 6cf32fc1d90ab713badf5ddb85fd3bcc6e6f2591
Author: Robert Iovu <c00297358@setu.ie>
Date:   Mon Oct 23 17:17:58 2023 +0100

    Script.txt

commit adf6d8b9a08eef734994da957211385f6c63068f
Author: Robert Iovu <c00297358@setu.ie>
Date:   Mon Oct 23 17:15:10 2023 +0100

    Git.docx

commit 28be7baa3b154c1913ae6771a373b236f2d4c981
Author: Robert Iovu <c00297358@setu.ie>
Date:   Mon Oct 23 17:13:42 2023 +0100
:...skipping...
commit 22bdaafa7211710f35c731c47172e55ac470a220 (HEAD -> main, origin/main)
Author: Robert Iovu <c00297358@setu.ie>
Date:   Mon Oct 23 17:24:27 2023 +0100

    Git.docx

commit 5dde1e0209874dc909e5f517654be830b145cfba
Author: Robert Iovu <c00297358@setu.ie>
Date:   Mon Oct 23 17:21:10 2023 +0100

    Script.txt

commit 604913ce25ded6a9849595988c6419e65a514c79
Author: Robert Iovu <c00297358@setu.ie>
Date:   Mon Oct 23 17:18:29 2023 +0100

    Git.docx

commit 6cf32fc1d90ab713badf5ddb85fd3bcc6e6f2591
Author: Robert Iovu <c00297358@setu.ie>
Date:   Mon Oct 23 17:17:58 2023 +0100

    Script.txt

commit adf6d8b9a08eef734994da957211385f6c63068f
Author: Robert Iovu <c00297358@setu.ie>
Date:   Mon Oct 23 17:15:10 2023 +0100

    Git.docx

commit 28be7baa3b154c1913ae6771a373b236f2d4c981
Author: Robert Iovu <c00297358@setu.ie>
Date:   Mon Oct 23 17:13:42 2023 +0100

    Script.txt

commit 65d52ed940c1cb95a95e63f9f30e51a2bd28fb07
Merge: 5e6e748 7dd82da
Author: Robert Iovu <c00297358@setu.ie>
Date:   Mon Oct 23 17:03:16 2023 +0100

    Git.docx
```

Clone:

Copies a repo in a new directory or location

```
rober@ACE_Legion MINGW64 ~/OneDrive/Desktop/Git (Robert Iovu) (main)
$ git clone
fatal: You must specify a repository to clone.

usage: git clone [<options>] [--] <repo> [<dir>]

    -v, --verbose         be more verbose
    -q, --quiet           be more quiet
    --progress            force progress reporting
    --reject-shallow      don't clone shallow repository
    -n, --no-checkout     don't create a checkout
    --bare                create a bare repository
    --mirror              create a mirror repository (implies bare)
    -l, --local           to clone from a local repository
    --no-hardlinks        don't use local hardlinks, always copy
    -s, --shared          setup as shared repository
    --recurse-submodules[=<pathspec>]
                          initialize submodules in the clone
    --recursive ...       alias of --recurse-submodules
    -j, --jobs <n>        number of submodules cloned in parallel
    --template <template-directory>
                          directory from which templates will be used
    --reference <repo>    reference repository
    --reference-if-able <repo>
                          reference repository
    --dissociate          use --reference only while cloning
    -o, --origin <name>   use <name> instead of 'origin' to track upstream
    -b, --branch <branch> checkout <branch> instead of the remote's HEAD
    -u, --upload-pack <path>
                          path to git-upload-pack on the remote
    --depth <depth>       create a shallow clone of that depth
    --shallow-since <time>
                          create a shallow clone since a specific time
    --shallow-exclude <revision>
                          deepen history of shallow clone, excluding rev
    --single-branch       clone only one branch, HEAD or --branch
    --no-tags             don't clone any tags, and make later fetches not to follow them
    --shallow-submodules  any cloned submodules will be shallow
    --separate-git-dir <gitdir>
                          separate git dir from working tree
    -c, --config <key=value>
                          set config inside the new repository
    --server-option <server-specific>
                          option to transmit
    -4, --ipv4            use IPv4 addresses only
    -6, --ipv6            use IPv6 addresses only
    --filter <args>       object filtering
    --also-filter-submodules
                          apply partial clone filters to submodules
    --remote-submodules   any cloned submodules will use their remote-tracking branch
    --sparse              initialize sparse-checkout file to include only files at root
    --bundle-uri <uri>    a URI for downloading bundles before fetching from origin remote


rober@ACE_Legion MINGW64 ~/OneDrive/Desktop/Git (Robert Iovu) (main)
$
```

Pull:

Downloads content from remote repository

```
$ git pull
remote: Enumerating objects: 4, done.
remote: Counting objects: 100% (4/4), done.
remote: Compressing objects: 100% (3/3), done.
remote: Total 3 (delta 1), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (3/3), done.
From https://github.com/ImDwivedi1/GitExample2
   f1ddc7c..0a1a475  master      -> origin/master
Updating f1ddc7c..0a1a475
Fast-forward
 design2.css | 6 ++++++
 1 file changed, 6 insertions(+)
 create mode 100644 design2.css

HiMaNshU@HiMaNshU-PC MINGW64 ~/Desktop/GitExample2 (master)
$ |
```

Stash:

Temporarily saves changes you have made so you can work on something else

```
rober@ACE_Legion MINGW64 ~/OneDrive/Desktop/Git (Robert Iovu) (main)
$ git stash
No local changes to save
```

Rm:

Removes a file from a git repository

```
rober@ACE_Legion MINGW64 ~/OneDrive/Desktop/Git (Robert Iovu) (main)
$ git rm "Git main 1"
fatal: pathspec 'Git main 1' did not match any files
```