

Init – this “initialises” the project by creating a brand-new repository.

```
C00297669@CD-A003-11 MINGW64 /c/Users/C00297669/Desktop/.git (master)
$ git init
Reinitialized existing Git repository in C:/Users/C00297669/Desktop/.git/.git/
```

Status – GIT is capable of tracking and untracking elements in your files, you can check this by typing “git status” in git-bash and the result shows what files are tracked/untracked.

```
C00297669@CD-A003-11 MINGW64 /c/Users/C00297669/Desktop/.git (master)
$ git status
On branch master

No commits yet

Untracked files:
  (use "git add <file>..." to include in what will be committed)
    git-one-SeanKroczeK/

nothing added to commit but untracked files present (use "git add" to track)
```

Add – the add command allows you to add a file to git that you want progress to be tracked in. This is done by typing “git add.”

```
C00297669@CD-A003-11 MINGW64 /c/Users/C00297669/Desktop/git-one-SeanKroczeK (main)
$ git add .

C00297669@CD-A003-11 MINGW64 /c/Users/C00297669/Desktop/git-one-SeanKroczeK (main)
$ git status
On branch main

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
    new file:   CommSkillsScript.txt
    new file:   Lab1CommSkills(new).docx
    new file:   ~$b1CommSkills(new).docx

C00297669@CD-A003-11 MINGW64 /c/Users/C00297669/Desktop/git-one-SeanKroczeK (main)
$
```

Remote - this is a repository separate from the main one, allowing the user to push or pull changes from and everyone can view it.

```
C00297669@CD-A003-11 MINGW64 /c/Users/C00297669/Desktop/git-one-SeanKroczeK (main)
$ git remote add origin https://github.com/PeterLowe/git-one-SeanKroczeK.git
error: remote origin already exists.
```

Commit – this command is considered a “save point”. A user can return to any point in the project to fix any bugs, or want to make changes.

```
C00297669@CD-A003-11 MINGW64 /c/Users/C00297669/Desktop/git-one-SeanKrocze (main)
$ git commit -m "first commit"
[main (root-commit) fa1253e] first commit
Committer: (Student C00297669) Sean Krocze <C00297669@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

3 files changed, 0 insertions(+), 0 deletions(-)
create mode 100644 CommSkillsScript.txt
create mode 100644 Lab1CommSkills(new).docx
create mode 100644 ~$b1CommSkills(new).docx
```

Branch - this command allows a user to diverge from the original repository. A user can modify the code and make changes, without damaging the original.

```
C00297669@CD-A003-11 MINGW64 /c/Users/C00297669/Desktop/git-one-SeanKrocze (main)
$ git branch -M master

C00297669@CD-A003-11 MINGW64 /c/Users/C00297669/Desktop/git-one-SeanKrocze (master)
$
```

Push - is a method of pushing the local repository content into a new remote repository.

```
C00297669@CD-A003-11 MINGW64 /c/Users/C00297669/Desktop/git-one-SeanKrocze (master)
$ git push -u origin master
Enumerating objects: 7, done.
Counting objects: 100% (7/7), done.
Delta compression using up to 4 threads
Compressing objects: 100% (4/4), done.
Writing objects: 100% (4/4), 85.36 KiB | 21.34 MiB/s, done.
Total 4 (delta 0), reused 0 (delta 0), pack-reused 0
remote:
remote: Create a pull request for 'master' on GitHub by visiting:
remote:   https://github.com/PeterLowe/git-one-SeanKrocze/pull/new/master
remote:
To https://github.com/PeterLowe/git-one-SeanKrocze
* [new branch]      master -> master
branch 'master' set up to track 'origin/master'.

C00297669@CD-A003-11 MINGW64 /c/Users/C00297669/Desktop/git-one-SeanKrocze (master)
$
```

Checkout - it is a complex command which consists of two parts, switch and restore. Switch executes the command “select other branch or commit to have checked out”, and the restore operation executes the command “update some files in index and/or working tree.”

```
C00297669@CD-A003-11 MINGW64 /c/Users/C00297669/Desktop/git-one-SeanKrocze (master)
$ git checkout
Your branch is up to date with 'origin/master'.

C00297669@CD-A003-11 MINGW64 /c/Users/C00297669/Desktop/git-one-SeanKrocze (master)
```

Clone – **NOT** Star Wars related. This command allows a repository, or a branch of a repository, to be copied. With this, the user can view the entire history of the repository.

```
C00297669@CD-A003-11 MINGW64 /c/Users/C00297669/Desktop/git-one-SeanKrocze (master)
$ git clone https://github.com/PeterLowe/git-one-SeanKrocze
Cloning into 'git-one-SeanKrocze'...
remote: Enumerating objects: 17, done.
remote: Counting objects: 100% (17/17), done.
remote: Compressing objects: 100% (12/12), done.
remote: Total 17 (delta 6), reused 15 (delta 4), pack-reused 0
Receiving objects: 100% (17/17), 139.35 KiB | 3.40 MiB/s, done.
Resolving deltas: 100% (6/6), done.

C00297669@CD-A003-11 MINGW64 /c/Users/C00297669/Desktop/git-one-SeanKrocze (master)
```

Log – allows a user to view all the previous commits executed. It can be used to search for specific items.

```
C00297669@CD-A003-11 MINGW64 /c/Users/C00297669/Desktop/git-one-SeanKrocze (master)
$ git log
commit f99b496a34863ad5f815c18e5b15d38f996db336 (HEAD -> master, origin/master)
Author: (Student C00297669) Sean Krocze <C00297669@setu.ie>
Date: Mon Oct 23 14:59:08 2023 +0100

    fifth commit

commit fbc47b81713a73da6a3ee06db61b255dc03c41f0
Author: (Student C00297669) Sean Krocze <C00297669@setu.ie>
Date: Mon Oct 23 14:56:18 2023 +0100

    fourth commit

commit 50ede483a99f842a6d205b4083733e209d481059
Author: (Student C00297669) Sean Krocze <C00297669@setu.ie>
Date: Mon Oct 23 14:54:09 2023 +0100

    third commit

commit b9d36d7cacc0c3378021ff05109bdee70ec8440f
Author: (Student C00297669) Sean Krocze <C00297669@setu.ie>
Date: Mon Oct 23 14:48:28 2023 +0100

    second commit

commit fa1253ea42c92768ba55256d687d92a469f00b50 (origin/main)
Author: (Student C00297669) Sean Krocze <C00297669@setu.ie>
Date: Mon Oct 23 14:43:22 2023 +0100

    first commit

C00297669@CD-A003-11 MINGW64 /c/Users/C00297669/Desktop/git-one-SeanKrocze (master)
```