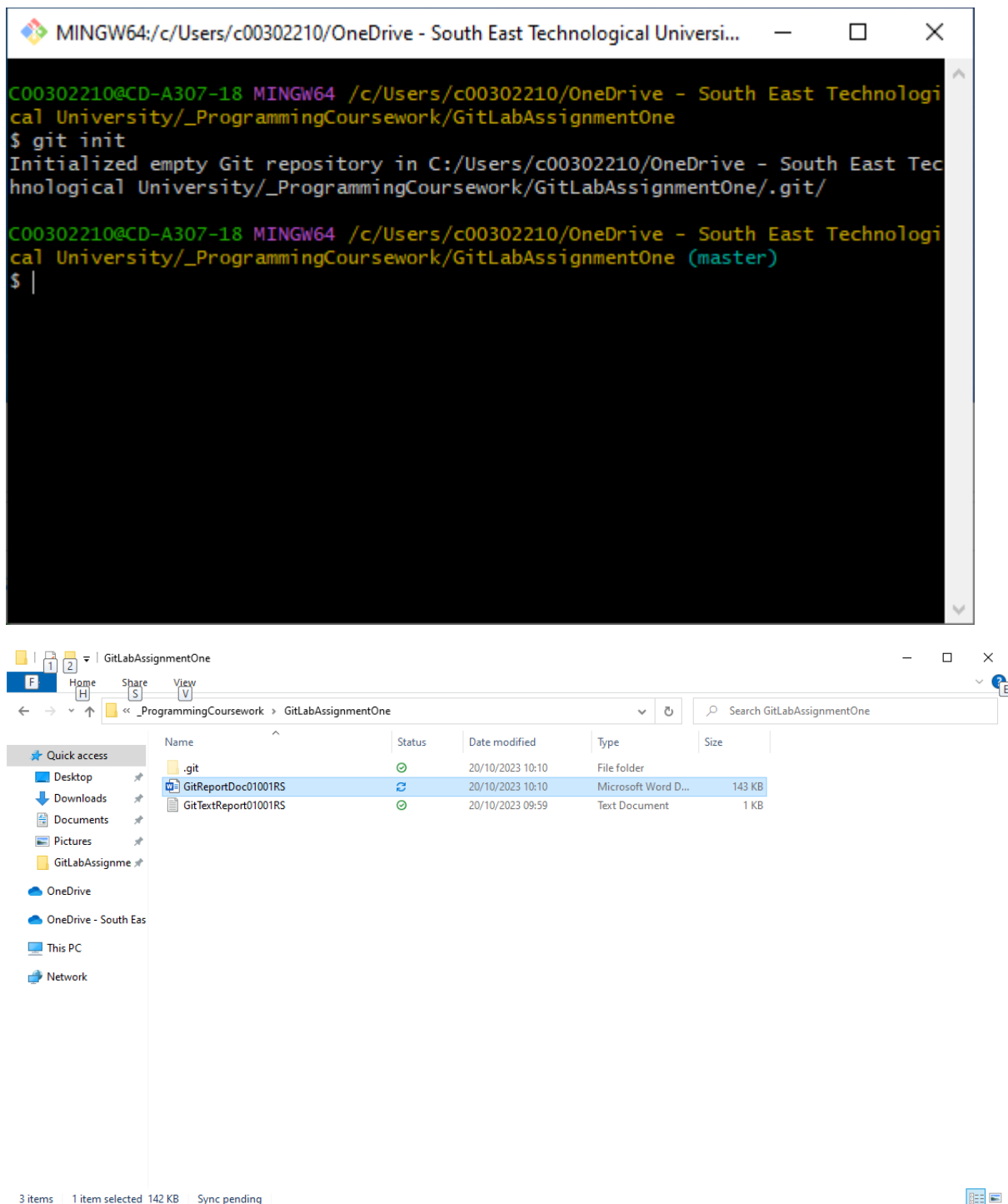


1. Init

The git init command initialises a local repository on my computer and allows me to work on it on my PC. After executing 'init', the repo will be in sub folder of where I ran the 'init' command. (hidden git folder). You may need to enter the working dir with the CD command. I can't seem to use the dir/w command, so it looks like I'll have to relearn some stuff...!



2. Add

The git add command can make files or whole directories staged for committing to repositories.

```
MINGW64:/c/Users/c00302210/OneDrive - South East Technological Universi...
error: open("GitReportDoc01001RS.docx"): Permission denied
error: unable to index file 'GitReportDoc01001RS.docx'
fatal: adding files failed

C00302210@CD-A307-18 MINGW64 /c/Users/c00302210/OneDrive - South East Technologi
cal University/_ProgrammingCoursework/GitLabAssignmentOne (master)
$ git add .

C00302210@CD-A307-18 MINGW64 /c/Users/c00302210/OneDrive - South East Technologi
cal University/_ProgrammingCoursework/GitLabAssignmentOne (master)
$ git status
On branch master

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
    new file:   GitReportDoc01001RS.docx
    new file:   GitTextReport01001RS.txt

C00302210@CD-A307-18 MINGW64 /c/Users/c00302210/OneDrive - South East Technologi
cal University/_ProgrammingCoursework/GitLabAssignmentOne (master)
$ |
```

3. Status

Status indicates the current contents of the local repo and their current state (eg. Whether staged, dirty, etc).

```
MINGW64:/c/Users/c00302210/OneDrive - South East Technological Universi...
C00302210@CD-A307-18 MINGW64 /c/Users/c00302210/OneDrive - South East Technologi
cal University/_ProgrammingCoursework/GitLabAssignmentOne
$ git init
Initialized empty Git repository in C:/Users/c00302210/OneDrive - South East Tec
hnological University/_ProgrammingCoursework/GitLabAssignmentOne/.git/

C00302210@CD-A307-18 MINGW64 /c/Users/c00302210/OneDrive - South East Technologi
cal University/_ProgrammingCoursework/GitLabAssignmentOne (master)
$ |
```

4. Commit

Creates a new commit with files that have been staged. The new commit is the child of the head, I think.

```
MINGW64:/c/Users/c00302210/OneDrive - South East Technological University/_ProgrammingCoursework/GitLabAssignmentOne (master)
$ git commit -m "Initial commit."
[master (root-commit) 637cf2a] Initial commit.
Committer: (Student C00302210) Robert Mc Gregor <C00302210@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, 19 insertions(+)
create mode 100644 GitReportDoc01001RS.docx
create mode 100644 GitTextReport01001RS.txt
C00302210@CD-A307-18 MINGW64 /c/Users/c00302210/OneDrive - South East Technological University/_ProgrammingCoursework/GitLabAssignmentOne (master)
$ |
```

5. Remote

Manages the repos associated with the project, allows you to see what you're currently attached to ('master') – does a lot more stuff!

```
MINGW64:/c/Users/c00302210/OneDrive - South East Technological University/_ProgrammingCoursework/GitLabAssignmentOne (master)
$ git branch
* master

C00302210@CD-A307-18 MINGW64 /c/Users/c00302210/OneDrive - South East Technological University/_ProgrammingCoursework/GitLabAssignmentOne (master)
$ git remote add origin https://github.com/PeterLowe/git-one-RobertMcGregorIsCool.git

C00302210@CD-A307-18 MINGW64 /c/Users/c00302210/OneDrive - South East Technological University/_ProgrammingCoursework/GitLabAssignmentOne (master)
$ git status
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:   GitReportDoc01001RS.docx

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

C00302210@CD-A307-18 MINGW64 /c/Users/c00302210/OneDrive - South East Technological University/_ProgrammingCoursework/GitLabAssignmentOne (master)
$ |
```

6. Push

Updates the remote node with the current node – sends staged files/commits to remote repo.

```
MINGW64:/c/Users/c00302210/OneDrive - South East Technological Universi...
bash: remote: command not found

C00302210@CD-A307-18 MINGW64 /c/Users/c00302210/OneDrive - South East Technologi
/GitLabAssignmentOne (master)
$ git remote
origin

C00302210@CD-A307-18 MINGW64 /c/Users/c00302210/OneDrive - South East Technologi
/GitLabAssignmentOne (master)
$ git push -u origin master
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% (4/4), done.
Writing objects: 100% (4/4), 32.69 KiB | 32.69 MiB/s, done.
Total 4 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/PeterLowe/git-one-RobertMcGregorIsCool.git
 * [new branch]      master -> master
branch 'master' set up to track 'origin/master'.

C00302210@CD-A307-18 MINGW64 /c/Users/c00302210/OneDrive - South East Technologi
/GitLabAssignmentOne (master)
$ |
```

7. Branch

Branch allows the user to list created branches, make a new branch or delete branches. (Doesn't switch to 'em?)

```
MINGW64:/c/Users/c00302210/OneDrive - South East Technological Universi...
C00302210@CD-A307-18 MINGW64 /c/Users/c00302210/OneDrive - South East Technologi
cal University/_ProgrammingCoursework/GitLabAssignmentOne (master)
$ git branch -a
* master
  remotes/origin/master

C00302210@CD-A307-18 MINGW64 /c/Users/c00302210/OneDrive - South East Technologi
cal University/_ProgrammingCoursework/GitLabAssignmentOne (master)
$ git branch el_hefe_bastardo

C00302210@CD-A307-18 MINGW64 /c/Users/c00302210/OneDrive - South East Technologi
cal University/_ProgrammingCoursework/GitLabAssignmentOne (master)
$ git branch -a
  el_hefe_bastardo
* master
  remotes/origin/master

C00302210@CD-A307-18 MINGW64 /c/Users/c00302210/OneDrive - South East Technologi
cal University/_ProgrammingCoursework/GitLabAssignmentOne (master)
$ |
```

8. Checkout

```
MINGW64:/c/Users/c00302210/OneDrive - South East Technological University/_ProgrammingCoursework/GitLabAssignmentOne (master)
$ git checkout el_hefe_bastardo
Switched to branch 'el_hefe_bastardo'

MINGW64:/c/Users/c00302210/OneDrive - South East Technological University/_ProgrammingCoursework/GitLabAssignmentOne (el_hefe_bastardo)
$ git checkout master
Switched to branch 'master'
Your branch is ahead of 'origin/master' by 1 commit.
(use "git push" to publish your local commits)

MINGW64:/c/Users/c00302210/OneDrive - South East Technological University/_ProgrammingCoursework/GitLabAssignmentOne (master)
$ |
```

Checkout makes my node (El Hefe Bastardo) the current HEAD. Then I switched back to MASTER as all my work had disappeared (wrong branch).

9. Merge

Incorporates changes from El_Hefe_Bastardo into the current branch (Master). As El_Hefe_Bastardo has no major advances on Master, git reports that the Master branch is already up to date.

```
MINGW64:/c/Users/c00302210/OneDrive - South East Technological University/_ProgrammingCoursework/GitLabAssignmentOne (master)
Your branch is up to date with 'origin/master'.
nothing to commit, working tree clean

MINGW64:/c/Users/c00302210/OneDrive - South East Technological University/_ProgrammingCoursework/GitLabAssignmentOne (master)
$ git branch
  el_hefe_bastardo
* master

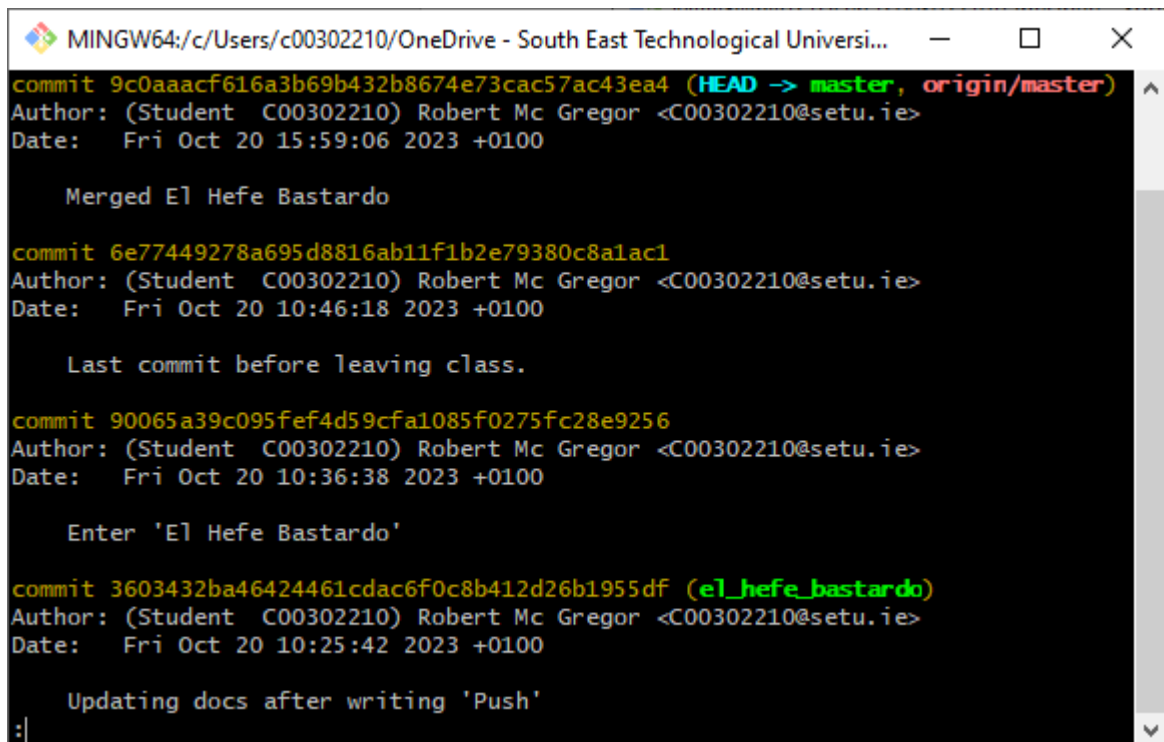
MINGW64:/c/Users/c00302210/OneDrive - South East Technological University/_ProgrammingCoursework/GitLabAssignmentOne (master)
$ git merge el_hefe_bastardo
Already up to date.

MINGW64:/c/Users/c00302210/OneDrive - South East Technological University/_ProgrammingCoursework/GitLabAssignmentOne (master)
$ git branch
  el_hefe_bastardo
* master

MINGW64:/c/Users/c00302210/OneDrive - South East Technological University/_ProgrammingCoursework/GitLabAssignmentOne (master)
$ |
```

10. Log

Lists the commit logs , can be navigated with <space> and <q>.

A screenshot of a terminal window titled 'MINGW64:/c/Users/c00302210/OneDrive - South East Technological Universi...'. The terminal displays the output of a 'git log' command. The output shows four commit entries. The first entry is a merge commit: 'commit 9c0aaacf616a3b69b432b8674e73cac57ac43ea4 (HEAD -> master, origin/master) Merged El Hefe Bastardo'. The second entry is: 'commit 6e77449278a695d8816ab11f1b2e79380c8a1ac1 Last commit before leaving class.'. The third entry is: 'commit 90065a39c095fef4d59cfa1085f0275fc28e9256 Enter 'El Hefe Bastardo''. The fourth entry is: 'commit 3603432ba46424461cdac6f0c8b412d26b1955df (el_hefe_bastardo) Updating docs after writing 'Push''. Each entry includes the author information: 'Author: (Student C00302210) Robert Mc Gregor <C00302210@setu.ie>' and the date: 'Date: Fri Oct 20 15:59:06 2023 +0100' (for the first) or 'Date: Fri Oct 20 10:46:18 2023 +0100' (for the second). The terminal has a dark background with light-colored text. A vertical scrollbar is visible on the right side of the terminal window.

Have not done these as I've reached my 10/10!

11. Clone

12. Pull

13. Stash

14. Rm