

Git One – Natalia Ryl

git add

To add new files, you need to go to the directory and enter *git add* .

This will add all files except the ones that contain *.gitignore*

Alternatively you can use *git add filename/pattern*

Only add files to the next commit you make.

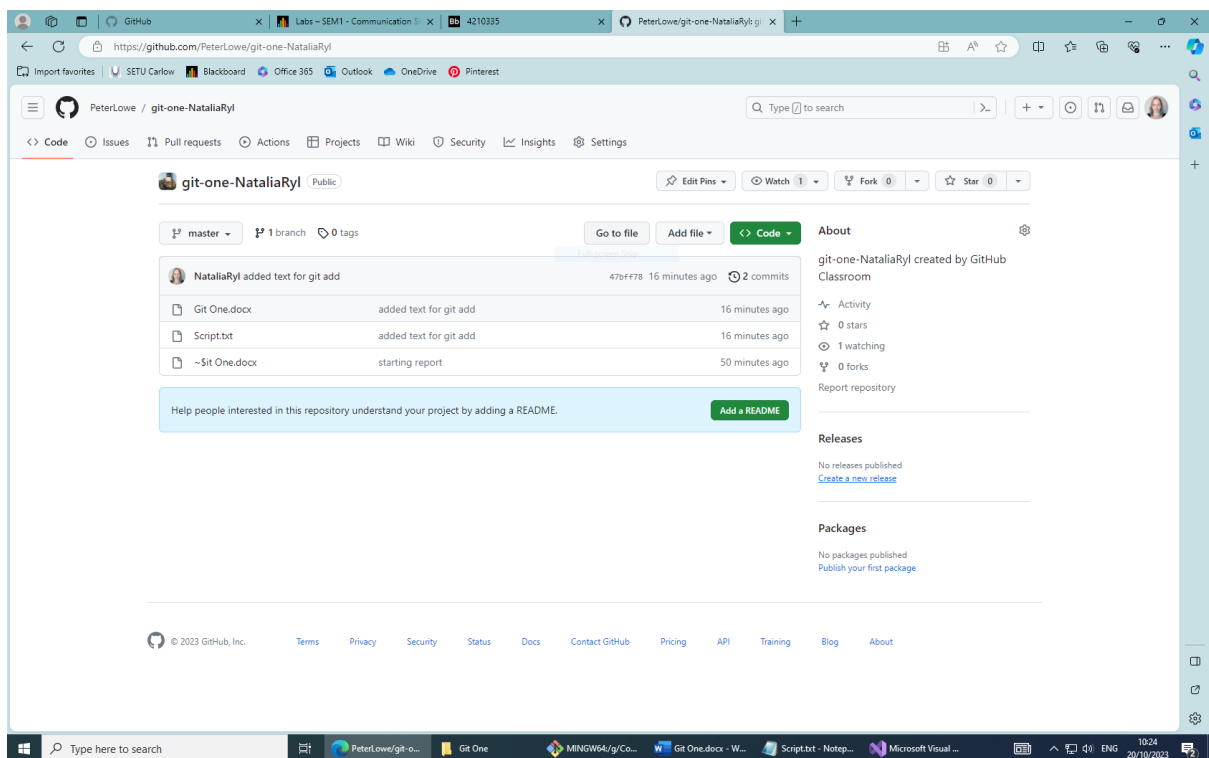
If you modify the file after adding but before committing, you should add again.

This will ignore the first modified version.

Syntax:

git add .

Example:



```
C00294480@CD-A307-27 MINGW64 /g/Communication Skills/Git One (master)
$ git status
On branch master
Your branch is up to date with 'origin/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:   Git One.docx
        modified:   Script.txt

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

```
C00294480@CD-A307-27 MINGW64 /g/Communication Skills/Git One (master)
$ git add .
```

```
C00294480@CD-A307-27 MINGW64 /g/Communication Skills/Git One (master)
$ git status
On branch master
Your branch is up to date with 'origin/master'.

Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        modified:   Git One.docx
        modified:   Script.txt
```

git status

This lists all the files in the directory.

This includes the modified files in the working area; the added files in the staging area; and the current branch.

Syntax:

git status

Example:

```
C00294480@CD-A307-27 MINGW64 /g/Communication Skills/Git One (master)
$ git status
On branch master
Your branch is up to date with 'origin/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:   Git One.docx
        modified:   Script.txt

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

```
C00294480@CD-A307-27 MINGW64 /g/Communication Skills/Git One (master)
$ git status
On branch master
Your branch is up to date with 'origin/master'.

Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        modified:   Git One.docx
        modified:   Script.txt
```

git commit

This allows the current node to be joined with the new node.

They can be thought of as snapshots of a Git project.

They are created to capture the state of a project at that point in time.

Syntax:

git commit -m "comment"

Example:

```
C00294480@CD-A200-06 MINGW64 /g/Communication Skills/Git One (master)
$ git commit -m "added text for git clone"
[master a105f4f] added text for git clone
Committer: (Student C00294480) Natalia Ryl <C00294480@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, 3 insertions(+), 1 deletion(-)
create mode 100644 ~$it One.docx
```

git init

This creates a new Git repository.

It can also re-initiate a previous repository.

Syntax:

git init

Example:

```
C00294480@CD-A200-06 MINGW64 /g/Communication Skills/Git One (master)
$ git init
Reinitialized existing Git repository in //CS-STUDENT-01/HOME$/202300/KCIAD_B_Y1
/C00294480/Communication Skills/Git One/.git/
```

git push

This updates the remote node with the current node.

It pushes the files from the staging area to the master branch.

Syntax:

git push -u origin master

Example:

```
C00294480@CD-A200-06 MINGW64 /g/Communication Skills/Git One (master)
$ git push -u origin master
info: please complete authentication in your browser...
Enumerating objects: 8, done.
Counting objects: 100% (8/8), done.
Delta compression using up to 12 threads
Compressing objects: 100% (5/5), done.
Writing objects: 100% (5/5), 9.69 KiB | 1.21 MiB/s, done.
Total 5 (delta 2), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (2/2), completed with 2 local objects.
To https://github.com/PeterLowe/git-one-NataliaRyl.git
   dbff217..a105f4f  master -> master
branch 'master' set up to track 'origin/master'.
```

git remote

This lists all the repositories on the remote server.

It can also create a new repository using *git remote add <name> <url>*

At the same time, it can delete a remote repository using *git remote rm <name>*

Syntax:

git remote

Example:

```
C00294480@CD-A002-71 MINGW64 /g/Communication Skills/Git One (master)
$ git remote
origin
```

git branch

This lists all the branches in the local repository.

It can also create a new branch in the local repository using *git branch new_branch_name*

Syntax:

git branch

Example:

```
C00294480@CD-A002-71 MINGW64 /g/Communication Skills/Git One (master)
$ git branch
* master
```

git clone

This copies an existing Git repository.

It has its own history, manages its own files, and is a completely isolated environment from the original repository.

Syntax:

git clone <filename>

Example:

```
C00294480@CD-A002-71 MINGW64 /g/Communication Skills/Git One (master)
$ git clone https://github.com/PeterLowe/git-one-NataliaRyl
Cloning into 'git-one-NataliaRyl'...
remote: Enumerating objects: 34, done.
remote: Counting objects: 100% (34/34), done.
remote: Compressing objects: 100% (25/25), done.
remote: Total 34 (delta 11), reused 30 (delta 7), pack-reused 0
Receiving objects: 100% (34/34), 431.77 KiB | 3.11 MiB/s, done.
Resolving deltas: 100% (11/11), done.
```

git log

This displays all the commits in a repository's history.

It also lists all altered files and the lines changed using *git log -- start*

Syntax:

git log

Example:

```
C00294480@CD-A002-71 MINGW64 /g/Communication Skills/Git One (master)
$ git commit -m "added text for git log"
[master fcd2950] added text for git log
Committer: (Student C00294480) Natalia Ryl <C00294480@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
commit fcd2950e57f11602410cfc577032240174c62802 (HEAD -> master, origin/master)
Author: (Student C00294480) Natalia Ryl <C00294480@setu.ie>
Date: Mon Oct 23 15:17:17 2023 +0100

    added text for git log

commit a105f4fa1070bd15aa445bc81cfeb8be58a0a0fa
Author: (Student C00294480) Natalia Ryl <C00294480@setu.ie>
Date: Mon Oct 23 13:54:28 2023 +0100

    added text for git clone

commit dbff21718d65f805ab9f715e9f85878ec0591a2a
Author: (Student C00294480) Natalia Ryl <C00294480@setu.ie>
Date: Fri Oct 20 16:48:05 2023 +0100

    added text for git branch

commit 32579ebd4b3c865b415ece240f756956591b99b6
Author: (Student C00294480) Natalia Ryl <C00294480@setu.ie>
Date: Fri Oct 20 16:40:52 2023 +0100

    added text for git remote

commit a69ca865a42c38d9b6880cd959d400db4f26a08c
Author: (Student C00294480) Natalia Ryl <C00294480@setu.ie>
Date: Fri Oct 20 16:33:40 2023 +0100

    added text for git push
```

```
commit 7ed70ff1c2c9bbf5a72e6446fed81d413636f692
Author: (Student C00294480) Natalia Rył <C00294480@setu.ie>
Date: Fri Oct 20 16:20:50 2023 +0100

    added text for git init

commit 0d90e96ca863383dd5c102dce5449efcab02077b
Author: (Student C00294480) Natalia Rył <C00294480@setu.ie>
Date: Fri Oct 20 16:09:42 2023 +0100

    added text for git commit

commit a4846ba4d36a210d70c16f358258b8e2b278a826
Author: (Student C00294480) Natalia Rył <C00294480@setu.ie>
Date: Fri Oct 20 10:42:06 2023 +0100
:...skipping...
commit fcd2950e57f11602410cfc577032240174c62802 (HEAD -> master, origin/master)
Author: (Student C00294480) Natalia Rył <C00294480@setu.ie>
Date: Mon Oct 23 15:17:17 2023 +0100

    added text for git log

commit a105f4fa1070bd15aa445bc81cfeb8be58a0a0fa
Author: (Student C00294480) Natalia Rył <C00294480@setu.ie>
Date: Mon Oct 23 13:54:28 2023 +0100

    added text for git clone

commit dbff21718d65f805ab9f715e9f85878ec0591a2a
Author: (Student C00294480) Natalia Rył <C00294480@setu.ie>
Date: Fri Oct 20 16:48:05 2023 +0100

    added text for git branch

commit 32579ebd4b3c865b415ece240f756956591b99b6
Author: (Student C00294480) Natalia Rył <C00294480@setu.ie>
Date: Fri Oct 20 16:40:52 2023 +0100

    added text for git remote

commit a69ca865a42c38d9b6880cd959d400db4f26a08c
Author: (Student C00294480) Natalia Rył <C00294480@setu.ie>
Date: Fri Oct 20 16:33:40 2023 +0100

    added text for git push

commit 7ed70ff1c2c9bbf5a72e6446fed81d413636f692
Author: (Student C00294480) Natalia Rył <C00294480@setu.ie>
Date: Fri Oct 20 16:20:50 2023 +0100

    added text for git init

commit 0d90e96ca863383dd5c102dce5449efcab02077b
Author: (Student C00294480) Natalia Rył <C00294480@setu.ie>
Date: Fri Oct 20 16:09:42 2023 +0100

    added text for git commit

commit a4846ba4d36a210d70c16f358258b8e2b278a826
Author: (Student C00294480) Natalia Rył <C00294480@setu.ie>-[m
Date: Fri Oct 20 10:42:06 2023 +0100

    added text for git status

commit 47bff7866d88a26e19d2ea7fb1857a4743a393d2
```

```
commit 47bfff7866d88a26e19d2ea7fb1857a4743a393d2
Author: (Student C00294480) Natalia Ryl <C00294480@setu.ie>
Date:   Fri Oct 20 10:07:17 2023 +0100

    added text for git add

:|
```

git rm

This removes a file from tracking.

It is basically the opposite of git add.

Additionally, it can be used to remove files from both the staging index and the working directory.

Syntax:

git rm <filename>

Example:

```
C00294480@CD-A003-10 MINGW64 /g/Communication Skills/Git One (master)
$ git rm --cached text.docx
rm 'text.docx'

C00294480@CD-A003-10 MINGW64 /g/Communication Skills/Git One (master)
$ git status
On branch master
Your branch is up to date with 'origin/master'.

Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        modified:   Git One.docx

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        text.docx
```