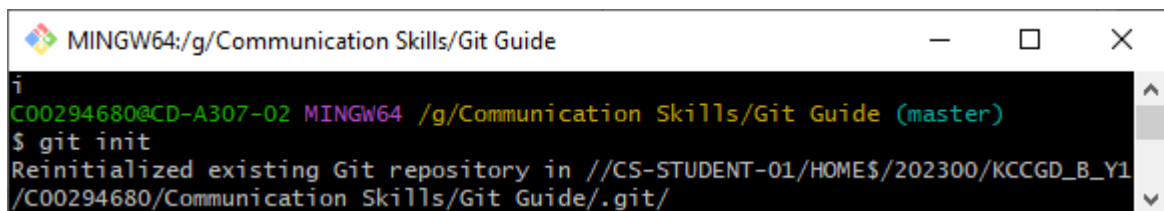


# Git Guide

Ian Perez Bunuel

## git init

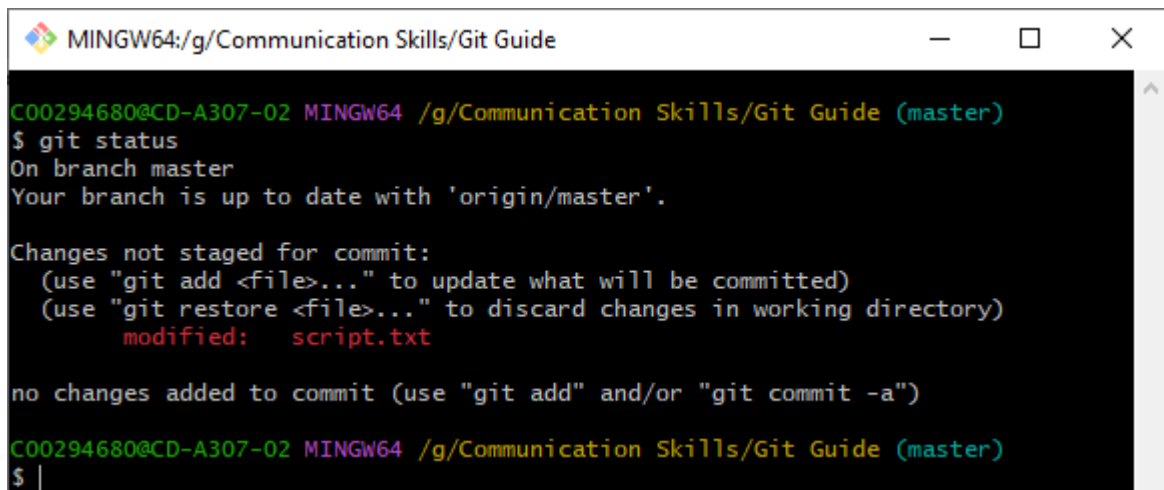
git init is used to create an empty repository in the folder where you have started Git bash.

A terminal window titled 'MINGW64:/g/Communication Skills/Git Guide' showing the execution of the 'git init' command. The prompt is 'C00294680@CD-A307-02 MINGW64 /g/Communication Skills/Git Guide (master)'. The command '\$ git init' is entered, and the output is 'Reinitialized existing Git repository in //CS-STUDENT-01/HOME\$/202300/KCCGD\_B\_Y1/C00294680/Communication Skills/Git Guide/.git/'.

```
MINGW64:/g/Communication Skills/Git Guide
i
C00294680@CD-A307-02 MINGW64 /g/Communication Skills/Git Guide (master)
$ git init
Reinitialized existing Git repository in //CS-STUDENT-01/HOME$/202300/KCCGD_B_Y1/C00294680/Communication Skills/Git Guide/.git/
```

## git status

This command will show you what is on the stage and what is not. It will tell you if it was modified, deleted, ext.

A terminal window titled 'MINGW64:/g/Communication Skills/Git Guide' showing the execution of the 'git status' command. The prompt is 'C00294680@CD-A307-02 MINGW64 /g/Communication Skills/Git Guide (master)'. The command '\$ git status' is entered, and the output shows 'On branch master', 'Your branch is up to date with 'origin/master'.', and '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: script.txt'. It also shows 'no changes added to commit (use "git add" and/or "git commit -a")'.

```
MINGW64:/g/Communication Skills/Git Guide
C00294680@CD-A307-02 MINGW64 /g/Communication Skills/Git Guide (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:   script.txt

no changes added to commit (use "git add" and/or "git commit -a")
C00294680@CD-A307-02 MINGW64 /g/Communication Skills/Git Guide (master)
$ |
```

## git add

git add . – this command will add every file in the repository to the stage. Instead of . you can type in the file name after the dot to specify which one you want to add.

This shows the files that were added using git status:

```
C00294680@CD-A307-02 MINGW64 /g/Communication Skills/Git Guide (master)
$ git add .

C00294680@CD-A307-02 MINGW64 /g/Communication Skills/Git Guide (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 Guide.docx
        modified:   script.txt

C00294680@CD-A307-02 MINGW64 /g/Communication Skills/Git Guide (master)
$ |
```

## git commit

git commit is used to put all the files in the staging area into a node. This node should have a note which is done by adding -m "note" after the git commit command.

```
C00294680@CD-A307-02 MINGW64 /g/Communication Skills/Git Guide (master)
$ git commit -m "add and status text added"
[master 9c2ebbd] add and status text added
Committer: (Student C00294680) Ian Perez Bunuel <C00294680@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:

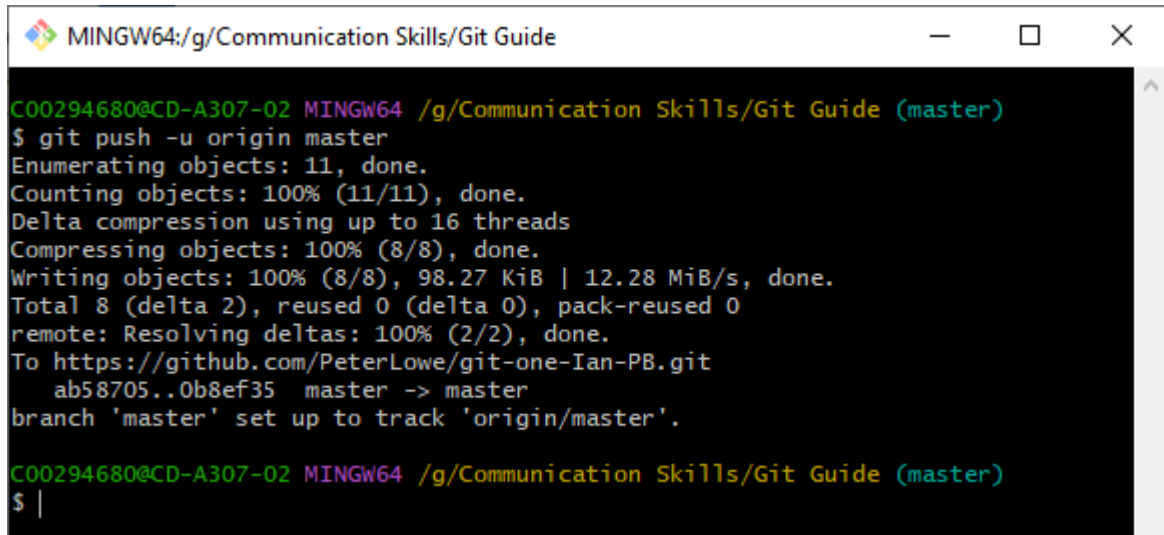
    git commit --amend --reset-author

2 files changed, 15 insertions(+), 1 deletion(-)

C00294680@CD-A307-02 MINGW64 /g/Communication Skills/Git Guide (master)
$
```

## git push

git push puts nodes done by commit into the online repository. The command is: `git push -u origin master` – master is the name of our default branch which is the one we want to push.

A terminal window titled 'MINGW64:/g/Communication Skills/Git Guide' showing the execution of the 'git push' command. The output indicates that 11 objects were enumerated, 8 were compressed, and the master branch was successfully pushed to the remote repository at https://github.com/PeterLowe/git-one-Ian-PB.git.

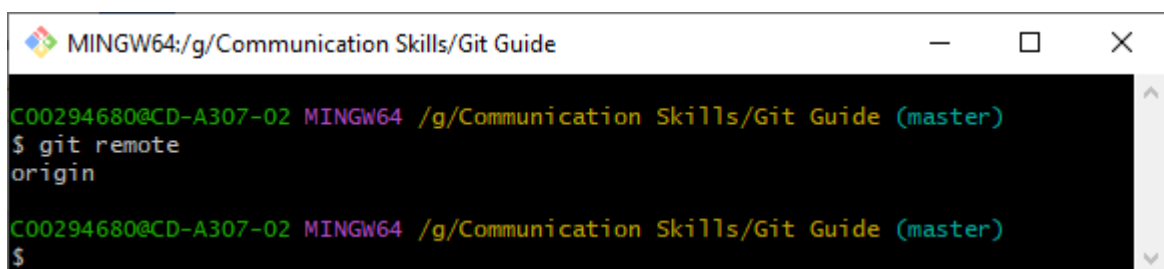
```
C00294680@CD-A307-02 MINGW64 /g/Communication Skills/Git Guide (master)
$ git push -u origin master
Enumerating objects: 11, done.
Counting objects: 100% (11/11), done.
Delta compression using up to 16 threads
Compressing objects: 100% (8/8), done.
Writing objects: 100% (8/8), 98.27 KiB | 12.28 MiB/s, done.
Total 8 (delta 2), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (2/2), done.
To https://github.com/PeterLowe/git-one-Ian-PB.git
   ab58705..0b8ef35  master -> master
branch 'master' set up to track 'origin/master'.

C00294680@CD-A307-02 MINGW64 /g/Communication Skills/Git Guide (master)
$ |
```

## git remote

git remote – list repositories on remote server.

git remote add <name> <url> - creates a new remote repository.

A terminal window titled 'MINGW64:/g/Communication Skills/Git Guide' showing the execution of the 'git remote' command. The output lists 'origin' as the remote repository.

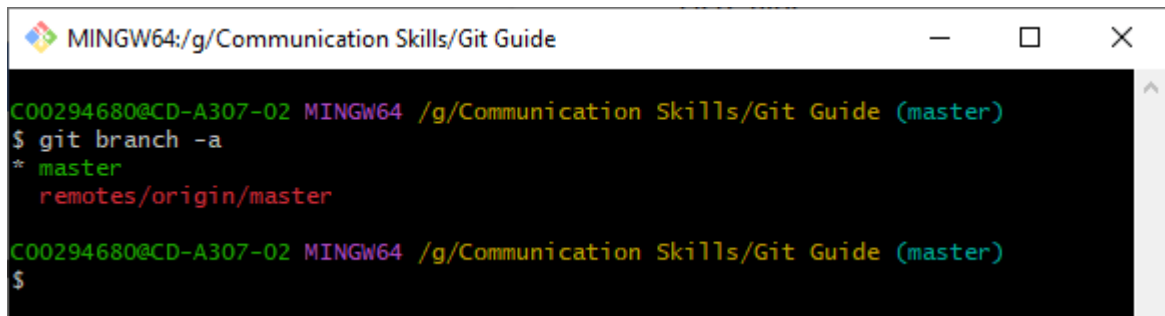
```
C00294680@CD-A307-02 MINGW64 /g/Communication Skills/Git Guide (master)
$ git remote
origin

C00294680@CD-A307-02 MINGW64 /g/Communication Skills/Git Guide (master)
$
```

## Git branch

Git branch newBranchName : Creates a new branch in the local repository.

git branch -a / -l / -r : Lists branches in repository

A screenshot of a Windows terminal window titled "MINGW64:/g/Communication Skills/Git Guide". The terminal shows the command "git branch -a" being executed. The output lists two branches: "master" (indicated by an asterisk) and "remotes/origin/master". The prompt is "\$".

```
MINGW64:/g/Communication Skills/Git Guide
C00294680@CD-A307-02 MINGW64 /g/Communication Skills/Git Guide (master)
$ git branch -a
* master
  remotes/origin/master
C00294680@CD-A307-02 MINGW64 /g/Communication Skills/Git Guide (master)
$
```

## git checkout

Command: `git checkout branch_name`

Makes this node the current Head

It won't work if there are modified files.

Use `-f` to discard non committed files