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## GitLab Basics

**This document is for WINDOWS using MINGW64 console.**

This page has the basic commands and the site has everything we need:

<https://docs.gitlab.com/ee/gitlab-basics/start-using-git.html>

The goal of this document is to help you to:

- a) Download Git Bash.
- b) Download the master repository.
- c) Create a branch to make your changes
- d) Push your changes to your branch.
- e) Make a merge request.

Right now, Troy is solely responsible for approving merge requests.

### Download Git Bash:

<https://gitforwindows.org/>

This is the client-side tool for using Gitlab. The setup is fairly self explanatory. I'm using MINGW64 and it seems to work fine for me.

### Download the master repository:

This is a copy of the master. You turn this into your branch later.

Firstly, Launch Git Bash and set your email & name:

```
git config --global user.email "[your email]"
```

```
git config --global user.name "[your username]"
```

To make sure the information is correct, use: `git config --global --list`

Next, make a folder somewhere sensible to use as a workspace.

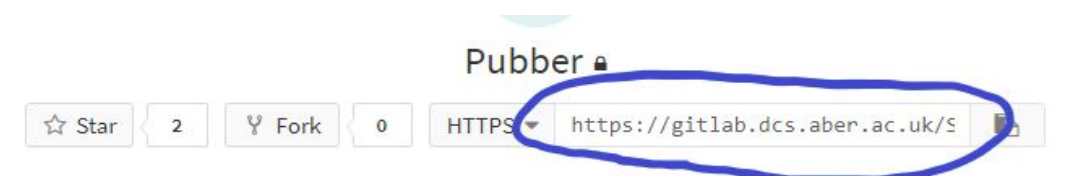
Next, change the directory. Make sure you're using the correct format (cd /x/y/).

```
cd /[workspace directory]
```

eg. `cd /C/Users/Henry/Documents/gitlab_repo/`

Next, copy the Gitlab address from our project page at:

<https://gitlab.dcs.aber.ac.uk/SoftwareEngGroup2019/Pubber>



Next, download the master repo using the command:

```
git clone [Gitlab Repo Address]
```

```
eg. git clone https://gitlab.dcs.aber.ac.uk/SoftwareEngGroup2019/Pubber.git
```

A copy of the master repository should now be in your working directory.

### **Creating a branch:**

Firstly, make sure that you're working in the Gitlab directory. Following the steps above, you will be in the folder above it. Repeat the command used before and get into the Gitlab folder.

```
eg. cd /C/Users/Henry/Documents/gitlab_repo/Pubber
```

Next, to create the branch, use:

```
git checkout -b [name_of_branch]
```

OR

```
git checkout [name_of_branch] to work on an existing branch.
```

The branch name should not have any spaces. Use - or \_ instead.

**You now have a branch in which you can make your changes or add new files etc..**

### **Push changes:**

When your branch is complete, you need to push it to the group repo. To view a summary of the changes you've made, use:

```
git status
```

There will be on-screen instructions at this point but be careful because you might end up in vi, which is pure arse. The file names should have no spaces. Use - or \_ instead.

If you want to make changes to the files in the branch, you need to add them to the commit list before you commit the changes.

To add a specific file, use:

```
git add [file_name]
```

To add all files, use:

```
git add .
```

Next, you commit the changes. To do this, use:

```
git commit -m "[description of change]"
```

Now, you're ready to push these changes to the branch on the group repo. To do this, use:

```
git push origin [name_of_branch]
```

**You should have now pushed your changes to the branch on Gitlab.**

**Make a merge request:**

Go to the Gitlab group repo at:

<https://gitlab.dcs.aber.ac.uk/SoftwareEngGroup2019/Pubber>

When the changes in your branch are final and you want to merge it with the master, go to Repository -> Branches and select 'Merge Request' from next to your branch. Fill out that form submit it, and Troy will approve it.

I do not think you need to fill out the Assignee, Milestone or Labels fields.

**Below is the above process, done for this document.**

```
MINGW64:/C/Users/Henry/Documents/gitlab_repo/Pubber
Henry@DESKTOP-TEC7Q7K MINGW64 ~
$ git config --global --list
user.email=hel20@aber.ac.uk
user.name=hel20

Henry@DESKTOP-TEC7Q7K MINGW64 ~
$ cd /C/Users/Henry/Documents/gitlab_repo/

Henry@DESKTOP-TEC7Q7K MINGW64 /C/Users/Henry/Documents/gitlab_repo
$ git clone https://gitlab.dcs.aber.ac.uk/SoftwareEngGroup2019/Pubber.git
Cloning into 'Pubber'...
remote: Counting objects: 18, done.
remote: Compressing objects: 100% (11/11), done.
remote: Total 18 (delta 5), reused 18 (delta 5)
unpacking objects: 100% (18/18), done.

Henry@DESKTOP-TEC7Q7K MINGW64 /C/Users/Henry/Documents/gitlab_repo
$ cd /C/Users/Henry/Documents/gitlab_repo/Pubber/

Henry@DESKTOP-TEC7Q7K MINGW64 /C/Users/Henry/Documents/gitlab_repo/Pubber (master)
$ git checkout -b Gitlab_basics_help
Switched to a new branch 'Gitlab_basics_help'

Henry@DESKTOP-TEC7Q7K MINGW64 /C/Users/Henry/Documents/gitlab_repo/Pubber (Gitlab_basics_help)
$ git status
On branch Gitlab_basics_help
Untracked files:
  (use "git add <file>..." to include in what will be committed)

        GitLab_basics.pdf

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

Henry@DESKTOP-TEC7Q7K MINGW64 /C/Users/Henry/Documents/gitlab_repo/Pubber (Gitlab_basics_help)
$ git add GitLab_basics.pdf

Henry@DESKTOP-TEC7Q7K MINGW64 /C/Users/Henry/Documents/gitlab_repo/Pubber (Gitlab_basics_help)
$ git commit -m "Gitlab_basics document upload"
[Gitlab_basics_help cfd8ef0] Gitlab_basics document upload
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 GitLab_basics.pdf

Henry@DESKTOP-TEC7Q7K MINGW64 /C/Users/Henry/Documents/gitlab_repo/Pubber (Gitlab_basics_help)
$ git push origin Gitlab_basics_help
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 4 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 92.45 KiB | 30.82 MiB/s, done.
Total 3 (delta 1), reused 0 (delta 0)
remote:
remote: Create merge request for Gitlab_basics_help:
remote:   https://gitlab.dcs.aber.ac.uk/SoftwareEngGroup2019/Pubber/merge_requests/new?merge_request%5Bsource_branch%5D=Gitlab_basics_help
remote:
To https://gitlab.dcs.aber.ac.uk/SoftwareEngGroup2019/Pubber.git
 * [new branch]      Gitlab_basics_help -> Gitlab_basics_help
```