
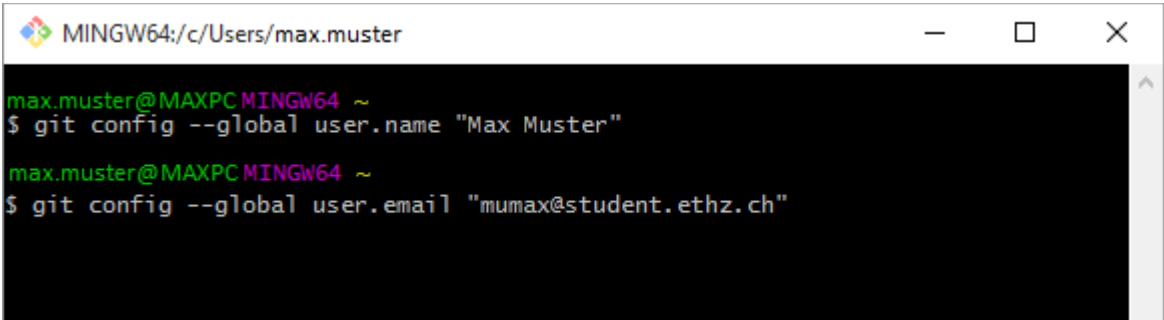


Git Manual

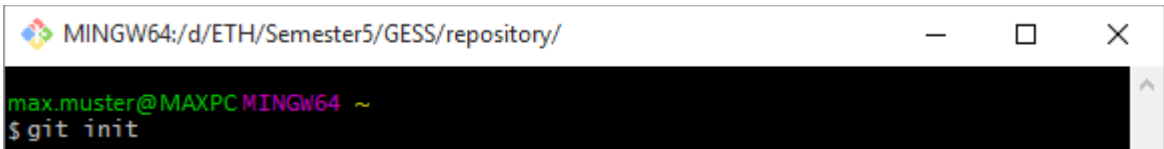
In this short manual my main concern is it to spare you as much pain as possible in setting up Git properly.

1. Make sure you are a contributor to:
https://github.com/downer/Dessert_Ant_Adaptive_Orientation
If send me a message <mailto:downer@bluewin.ch>
2. Download Git from: <https://git-scm.com/download/win>
3. Install Git in default configuration.
4. Open your File Explorer and create a local directory where you want to store the project files.
5. Open the Git-Bash 
6. Configure Git to recognize you:

7. 

```
MINGW64:/c/Users/max.muster
max.muster@MAXPC MINGW64 ~
$ git config --global user.name "Max Muster"
max.muster@MAXPC MINGW64 ~
$ git config --global user.email "mumax@student.ethz.ch"
```

Navigate to your newly created directory and initialize it:

8. 

```
MINGW64:/d/ETH/Semester5/GESS/repository/
max.muster@MAXPC MINGW64 ~
$ git init
```

Generate a new SSH-Key by entering this:

```
$ ssh-keygen -t rsa -b 4096 -C "mumax@student.ethz.ch"
```

9. Keep default settings and enter a passphrase (which you should not forget!).
10. Enable the SSH-Agent: `$ eval $(ssh-agent -s)`
11. Add the key to the agent: `$ ssh-add ~/.ssh/id_rsa`
12. Add the key to your Github Account:
 1. In the Git Bash type: `$ clip < ~/.ssh/id_rsa.pub`
 2. On the Github page go to settings:



3. Copy the content of your clipboard to the window and save the key

13. In the Git-Bash again type the folling:

\$ git clone [git@github.com:downer/Dessert_Ant_Adaptive_Orientation.git](https://github.com/downer/Dessert_Ant_Adaptive_Orientation.git)

14. Type: \$ git config --global push.default simple

You should now have access to the repository.

Commands

These few commands should help you using git.

Always make sure you are in your working directory when using the Git-Bash.

Command	Description
\$ git status	Returns status information such as uncommitted changes.
\$ git commit -m "message"	Commits all changes of staged files.
\$ git push	Pushes all committed changes to the current branch you are working on.
\$ git pull	Pulls files from the remote origin (Github) to your local repository.
\$ git add <file>	Adds file to version control.

IMPORTANT:

- Make sure you pull to be up-to-date with your local repository.
- Only push if your code is working properly.
- ALWAYS describe what you have done in your commit message, it makes tracking errors easier!

Hopefully this document can save you some time.