
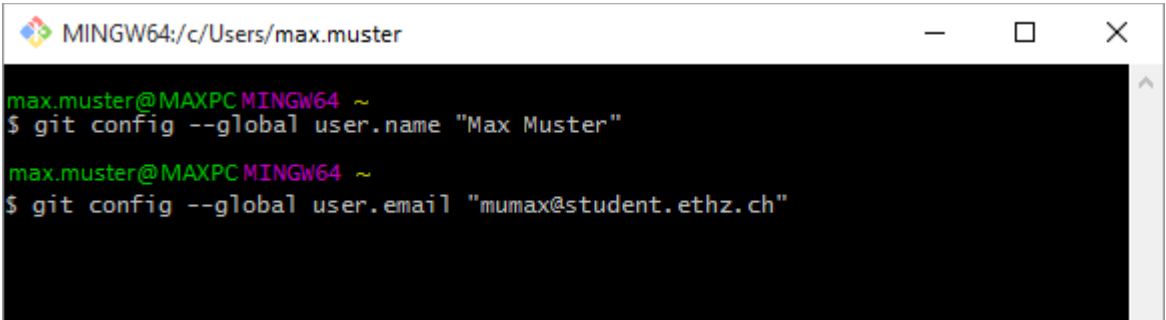


Git Manual

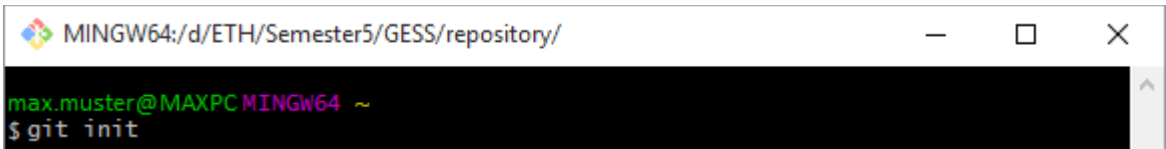
In this short manual my main concern is it to spare you as much pain as possible in setting up Git properly.

1. Make sure you are a contributor to:
https://github.com/downer/Desert_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. 

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