

Git Workflow

New Austrian Coding School

Programming - memo

Command Overview:

These are the commands you will have to use every time you want to add your new or modified files to git and upload them. The **Essential Commands**

```
git status
```

```
git add /path/to/folder/
```

```
git commit -m "My first commit"
```

```
git push -u origin master
```

Cloning Repository:

Creating the Github repository

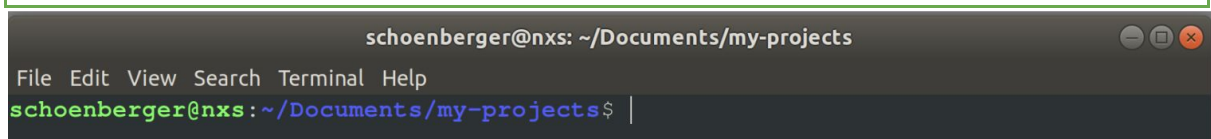
The first step to start with Git is to create a Github repository. Login on Github, click on the "+" in the top right corner and then select "**New repository**".

On the next page choose your repository name and then click "**Create Repository**".

Navigate inside the terminal

It's important that you are in the right folder in your terminal when you want to clone the repository. You can see your current folder in the terminal by looking at the left side of your cursor right before the \$ sign or at the top of the terminal window.

```
cd Documents/my-projects/
```



git clone

After creating your repository on Github you want to clone it onto your computer. Copy the **HTTPS** repository link. It looks something like this: <https://github.com/username/repository-name.git>

```
git clone https://github.com/username/repository-name.git
```

Essential Commands:

These are the most **important** commands you will have to use every time when you want to upload your changes to the github repository.

git status

To keep track of your files you can type **git status**. The files that are colored in red have either been modified or are new files that you created. The files that are colored in green have been already added to git.

All the files that are green will be uploaded to your repository when successfully completing the next 2 steps. (commit & push)

```
git status
```

git add

This command works with files and folders. You could, for example, add your whole **src/** folder from your java project to git. Every package and file inside the specified folder will be added to git.

You can also drag folders or files into the terminal. Just remember to start with **git add**.

```
git add /path/to/file
```

git commit

To commit the changes you made with adding certain files and folders type in the command below. Start with **git commit -m** (-m stands for message) followed by your commit message. You **must** provide a message every time.

```
git commit -m "My first commit"
```

git push

Finally, you want to upload your files to your repository. The first time you push something you have to follow the **git push** command by the keywords: **-u origin master**. This sets the upstream, so that next time you only have to type in **git push**. After this you type in your github username and password.

```
git push -u origin master
```

Open the cloned repository in IntelliJ:

To open your cloned repository folder in IntelliJ go to File > New > Project and do the usual setup. When it comes to choosing the project name and project location click on the three dots on right side of **Project location**. Now navigate to the folder you just cloned. If it asks you to overwrite anything just say yes.

The src/ folder will be created and you can start with the reflection :)