

# Cheatsheet: GitLab for TRR318

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## General

- You should not push to the main branch, but create a personal one.
- Everything that is written in capital letters is a variable and needs to be replaced
- If you have any problems please ask your GitLab-person. They will try to help as soon as we can!

## Merge Requests

### WHERE:

GitLab

As soon as you want to merge your branch to the main branch you need to send a merge request.

- Go to your subprojects-repository in GitLab.
- Select **Merge Requests** on the left.
- Select **New merge Request** on the top right.
- Select **Source Branch** (Where is it now?) and **Target Branch** (Where shall it go?)
- Write a message about what changes have been made exactly.
- Select your GitLab-person as an Assignee.

## Directory

### WHERE:

GitBash/Command Prompt/ Terminal

### change directory

```
1 # changes the working directory to the path you enter
2 cd PATH
```

### HINTS:

- Use TAB for autocompletion.
- Type cd and drag and drop the folder into the Window.

### content of current folder

```
1 # lists all the files and folders that are contained in the current
  ↳ directory
2 ls
```

### current directory

```
1 # shows the directory you are currently working in
2 pwd
```

## Git commands

### WHERE:

GitBash/Command Prompt/ Terminal

### Status

```
1 # current status of GIT
2 git status
```

### Branches

```
1 # lists all the existing branches
2 git branch
3
4 # changes to the branch X
5 git checkout X
```

### Clone

```
1 # clones a repo from GitLab to Git
2 git clone URL
```

### HINT:

You only need to clone a Repository once. If you want to update it use pull.

### Pull

```
1 # pulls the current Repo-version from GitLab
2 git pull
```

### HINT:

You should use pull everytime you start working with Git.

You pull the repo that is saved in your current working directory!

### Add

```
1 # adds all files to Git
2 git add
3 # adds the file from Git to GitLab
4 git add FILE
```

### HINT:

Files you want to push need to be saved in the current working directory!

### Commit

```
1 # tell the others about the changes
2 git commit -m "MESSAGE"
```

### Push

```
1 # pushes all files from Git into GitLab
2 git push
3 # pushes the file from Git to GitLab
4 git push FILE
```