

Git version

```
C:\Users\lukas\Documents\Homeschooling\Jahr_2022\CPR\Software\CPRSW_StudentsShare>git --version  
git version 2.33.0.windows.2
```

git config --list

```
user.name=LukMayr  
user.email=l.mayrhuber@students.htl-leonding.ac.at
```

Git Help

```
C:\Users\lukas\Documents\Homeschooling\Jahr_2022\CPR\Software\CPRSW_StudentsShare>git help
usage: git [--version] [--help] [-C <path>] [-c <name>=<value>]
        [--exec-path[=<path>]] [--html-path] [--man-path] [--info-path]
        [-p | --paginate | -P | --no-pager] [--no-replace-objects] [--bare]
        [--git-dir=<path>] [--work-tree=<path>] [--namespace=<name>]
        [--super-prefix=<path>] [--config-env=<name>=<envvar>]
        <command> [<args>]
```

These are common Git commands used in various situations:

start a working area (see also: git help tutorial)

clone	Clone a repository into a new directory
init	Create an empty Git repository or reinitialize an existing one

work on the current change (see also: git help everyday)

add	Add file contents to the index
mv	Move or rename a file, a directory, or a symlink
restore	Restore working tree files
rm	Remove files from the working tree and from the index
sparse-checkout	Initialize and modify the sparse-checkout

examine the history and state (see also: git help revisions)

bisect	Use binary search to find the commit that introduced a bug
diff	Show changes between commits, commit and working tree, etc
grep	Print lines matching a pattern
log	Show commit logs
show	Show various types of objects
status	Show the working tree status

grow, mark and tweak your common history

branch	List, create, or delete branches
commit	Record changes to the repository
merge	Join two or more development histories together
rebase	Reapply commits on top of another base tip
reset	Reset current HEAD to the specified state
switch	Switch branches
tag	Create, list, delete or verify a tag object signed with GPG

collaborate (see also: git help workflows)

fetch	Download objects and refs from another repository
pull	Fetch from and integrate with another repository or a local branch
push	Update remote refs along with associated objects

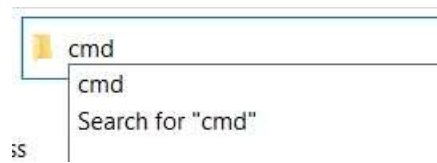
'git help -a' and 'git help -g' list available subcommands and some concept guides. See 'git help <command>' or 'git help <concept>'

to read about a specific subcommand or concept.

See 'git help git' for an overview of the system.

```
C:\Users\lukas\Documents\Homeschooling\Jahr_2022\CPR\Software\CPRSW_StudentsShare>
```

Vom Explorer in die Commandline



Clear Befehl suchen

```
CACLS  
CALL  
CD  
CHCP  
CHDIR  
CHKDSK  
CHKNTFS  
CLS  
CMD  
COLOR  
COMP  
COMPACT  
CONVERT
```

Git Status

```
C:\Users\lukas\Documents\Homeschooling\Jahr_2022\CPR\Software\test>git status  
On branch master  
  
No commits yet  
  
nothing to commit (create/copy files and use "git add" to track)
```

Git branch erstellen

```
C:\Users\lukas\Documents\Homeschooling\Jahr_2022\CPR\Software>git init test  
Initialized empty Git repository in C:/Users/lukas/Documents/Homeschooling/Jahr_2022/CPR/Software/test/.git/
```

Git logs

```
C:\Users\lukas\Documents\Homeschooling\Jahr_2022\CPR\Software\test>git log
commit 7042f9f9b8900d923162dfd2050804887c908441 (HEAD -> master)
Author: LukMayr <l.mayrhuber@students.htl-leonding.ac.at>
Date:   Tue Nov 16 09:28:35 2021 +0100

    lines added into file

commit b5472443dbaa275f13a3e332e466f91b92022bb
Author: LukMayr <l.mayrhuber@students.htl-leonding.ac.at>
Date:   Tue Nov 16 09:23:27 2021 +0100

    first File edit

C:\Users\lukas\Documents\Homeschooling\Jahr_2022\CPR\Software\test>git log --pretty=oneline
7042f9f9b8900d923162dfd2050804887c908441 (HEAD -> master) lines added into file
b5472443dbaa275f13a3e332e466f91b92022bb first File edit

C:\Users\lukas\Documents\Homeschooling\Jahr_2022\CPR\Software\test>_
```

Git Untrack mit --cached

```
C:\Users\lukas\Documents\Homeschooling\Jahr_2022\CPR\Software\test>git commit -m "doNotTrack.txt added"
[master 86f289b] doNotTrack.txt added
1 file changed, 0 insertions(+), 0 deletions(-)
rename delFile2.txt => doNotTrack2.txt (100%)

C:\Users\lukas\Documents\Homeschooling\Jahr_2022\CPR\Software\test>git rm --cached doNotTrack2.txt
rm 'doNotTrack2.txt'

C:\Users\lukas\Documents\Homeschooling\Jahr_2022\CPR\Software\test>git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        deleted:    doNotTrack2.txt

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        doNotTrack.txt
        doNotTrack2.txt

C:\Users\lukas\Documents\Homeschooling\Jahr_2022\CPR\Software\test>git commit -m "untracked doNotTrack2.txt"
[master 54924cb] untracked doNotTrack2.txt
1 file changed, 0 insertions(+), 0 deletions(-)
delete mode 100644 doNotTrack2.txt

C:\Users\lukas\Documents\Homeschooling\Jahr_2022\CPR\Software\test>_
```

Mit Git umbenennen

```
C:\Users\lukas\Documents\Homeschooling\Jahr_2022\CPR\Software\test>git commit -m "doNotTrack.txt added"
[master 86f289b] doNotTrack.txt added
1 file changed, 0 insertions(+), 0 deletions(-)
rename delFile2.txt => doNotTrack2.txt (100%)

C:\Users\lukas\Documents\Homeschooling\Jahr_2022\CPR\Software\test>git rm --cached doNotTrack2.txt
rm 'doNotTrack2.txt'

C:\Users\lukas\Documents\Homeschooling\Jahr_2022\CPR\Software\test>git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        deleted:    doNotTrack2.txt

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        doNotTrack.txt
        doNotTrack2.txt

C:\Users\lukas\Documents\Homeschooling\Jahr_2022\CPR\Software\test>git rm --cached doNotTrack.txt
rm 'doNotTrack.txt'
```

```
C:\Users\lukas\Documents\Homeschooling\Jahr_2022\CPR\Software\test>git status
On branch master
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
        modified:   firstFile.txt

no changes added to commit (use "git add" and/or "git commit -a")

C:\Users\lukas\Documents\Homeschooling\Jahr_2022\CPR\Software\test>git restore firstFile.txt

C:\Users\lukas\Documents\Homeschooling\Jahr_2022\CPR\Software\test>git status
On branch master
nothing to commit, working tree clean
```

```
C:\Users\lukas\Documents\Homeschooling\Jahr_2022\CPR\Software\test>copy con doNotTrack.txt
^Z
        1 file(s) copied.

C:\Users\lukas\Documents\Homeschooling\Jahr_2022\CPR\Software\test>copy con doNotTrack2.txt
^Z
        1 file(s) copied.

C:\Users\lukas\Documents\Homeschooling\Jahr_2022\CPR\Software\test>git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        deleted:    delFile2.txt

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        doNotTrack.txt
        doNotTrack2.txt

C:\Users\lukas\Documents\Homeschooling\Jahr_2022\CPR\Software\test>git add
Nothing specified, nothing added.
hint: Maybe you wanted to say 'git add .'
hint: Turn this message off by running
hint: "git config advice.addEmptyPathspec false"

C:\Users\lukas\Documents\Homeschooling\Jahr_2022\CPR\Software\test>git add .

C:\Users\lukas\Documents\Homeschooling\Jahr_2022\CPR\Software\test>git rm --cached doNotTrack.txt
rm 'doNotTrack.txt'

C:\Users\lukas\Documents\Homeschooling\Jahr_2022\CPR\Software\test>git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        renamed:    delFile2.txt -> doNotTrack2.txt

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        doNotTrack.txt
```


Git restore

```
C:\Users\lukas\Documents\Homeschooling\Jahr_2022\CPR\Software\test>git status
On branch master
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
        modified:   firstFile.txt

no changes added to commit (use "git add" and/or "git commit -a")

C:\Users\lukas\Documents\Homeschooling\Jahr_2022\CPR\Software\test>git add .

C:\Users\lukas\Documents\Homeschooling\Jahr_2022\CPR\Software\test>git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        modified:   firstFile.txt

C:\Users\lukas\Documents\Homeschooling\Jahr_2022\CPR\Software\test>git commit -m "lines added into file"
[master 7042f9f] lines added into file
1 file changed, 7 insertions(+), 2 deletions(-)
rewrite firstFile.txt (100%)
```