

Git Arbeitsauftrag Protokoll:

1: Lokales Repo erzeugen

```
C:\Users\4bran\Desktop\school\2122\CPR\Software\secondRepo>git init
Initialized empty Git repository in C:/Users/4bran/Desktop/school/2122/CPR/Software/secondRepo/.git/

C:\Users\4bran\Desktop\school\2122\CPR\Software\secondRepo>dir /adh
Volume in drive C is Windows
Volume Serial Number is 44FD-DBF3

Directory of C:\Users\4bran\Desktop\school\2122\CPR\Software\secondRepo

23/11/2021  09:19    <DIR>          .git
               0 File(s)                0 bytes
               1 Dir(s)  767.568.359.424 bytes free

C:\Users\4bran\Desktop\school\2122\CPR\Software\secondRepo>
```

Mithilfe von **git init** ein leeres Repository erzeugen

2: Status prüfen

```
C:\Users\4bran\Desktop\school\2122\CPR\Software\secondRepo>git status
On branch master

No commits yet

nothing to commit (create/copy files and use "git add" to track)

C:\Users\4bran\Desktop\school\2122\CPR\Software\secondRepo>
```

Durch **git status** wird der aktuelle Status des Repo abgefragt

3: Inhalt adden

```
C:\Users\4bran\Desktop\school\2122\CPR\Software\secondRepo>copy con secondFile.txt
hello i am under the water
this is the second file
        1 file(s) copied.

C:\Users\4bran\Desktop\school\2122\CPR\Software\secondRepo>git status
On branch master

No commits yet

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

nothing added to commit but untracked files present (use "git add" to track)

C:\Users\4bran\Desktop\school\2122\CPR\Software\secondRepo>git add .

C:\Users\4bran\Desktop\school\2122\CPR\Software\secondRepo>git status
On branch master

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
        new file:   secondFile.txt

C:\Users\4bran\Desktop\school\2122\CPR\Software\secondRepo>
```

Mit **git add [file]/./*/--all** wird der angesprochene Bereich in den Staging Bereich geadded

4: Inhalt committen

```
C:\Users\4bran\Desktop\school\2122\CPR\Software>cd secondRepo
C:\Users\4bran\Desktop\school\2122\CPR\Software\secondRepo>git commit -m "Second File added"
[master (root-commit) b58f093] Second File added
 1 file changed, 2 insertions(+)
 create mode 100644 secondFile.txt
C:\Users\4bran\Desktop\school\2122\CPR\Software\secondRepo>git status
On branch master
nothing to commit, working tree clean
C:\Users\4bran\Desktop\school\2122\CPR\Software\secondRepo>
```

Mittels **git commit -m** werden die Inhalte vom Staging Bereich committed.

5: Inhalt verändern

```
C:\Users\4bran\Desktop\school\2122\CPR\Software\secondRepo>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:   secondFile.txt

no changes added to commit (use "git add" and/or "git commit -a")
C:\Users\4bran\Desktop\school\2122\CPR\Software\secondRepo>git add secondFile.txt
C:\Users\4bran\Desktop\school\2122\CPR\Software\secondRepo>git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        modified:   secondFile.txt

C:\Users\4bran\Desktop\school\2122\CPR\Software\secondRepo>git commit -m "rows added"
[master 49db4d0] rows added
 1 file changed, 2 insertions(+)
C:\Users\4bran\Desktop\school\2122\CPR\Software\secondRepo>
```

Weitere Dateien **add** und **committen**, inzwischen **git status** abrufen

6: Dateien löschen

```
C:\Users\4bran\Desktop\school\2122\CPR\Software\secondRepo>copy con delFile.txt
this file will be deleted shortly
    1 file(s) copied.

C:\Users\4bran\Desktop\school\2122\CPR\Software\secondRepo>copy con delFile2.txt
this file will also be gone
    1 file(s) copied.

C:\Users\4bran\Desktop\school\2122\CPR\Software\secondRepo>git status
On branch master
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    delFile.txt
    delFile2.txt

nothing added to commit but untracked files present (use "git add" to track)

C:\Users\4bran\Desktop\school\2122\CPR\Software\secondRepo>git add .

C:\Users\4bran\Desktop\school\2122\CPR\Software\secondRepo>git rm delFile.txt
error: the following file has changes staged in the index:
    delFile.txt
(use --cached to keep the file, or -f to force removal)

C:\Users\4bran\Desktop\school\2122\CPR\Software\secondRepo>git rm -f delFile.txt
rm 'delFile.txt'

C:\Users\4bran\Desktop\school\2122\CPR\Software\secondRepo>git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   delFile2.txt

C:\Users\4bran\Desktop\school\2122\CPR\Software\secondRepo>git commit -m "deleted delFile.txt"
[master 333d73c] deleted delFile.txt
 1 file changed, 1 insertion(+)
 create mode 100644 delFile2.txt

C:\Users\4bran\Desktop\school\2122\CPR\Software\secondRepo>git rm -f delFile2.txt
rm 'delFile2.txt'

C:\Users\4bran\Desktop\school\2122\CPR\Software\secondRepo>git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    deleted:    delFile2.txt

C:\Users\4bran\Desktop\school\2122\CPR\Software\secondRepo>git commit -m "deleted delFile2.txt"
[master 44245c7] deleted delFile2.txt
 1 file changed, 1 deletion(-)
 delete mode 100644 delFile2.txt

C:\Users\4bran\Desktop\school\2122\CPR\Software\secondRepo>
```

Durch **git -rm** werden Dateien aus dem Repo gelöscht. **git -rm f** löscht die Datei komplett von der Speicherplatte

7: Dateien löschen

```

C:\Users\4bran\Desktop\school\2122\CPR\Software\secondRepo>copy con doNotTrack.txt
do never ever track this file
okay??
    1 file(s) copied.

C:\Users\4bran\Desktop\school\2122\CPR\Software\secondRepo>copy con doNotTrack2.txt
same here
    1 file(s) copied.

C:\Users\4bran\Desktop\school\2122\CPR\Software\secondRepo>git status
On branch master
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    doNotTrack.txt
    doNotTrack2.txt

nothing added to commit but untracked files present (use "git add" to track)

C:\Users\4bran\Desktop\school\2122\CPR\Software\secondRepo>git add .

C:\Users\4bran\Desktop\school\2122\CPR\Software\secondRepo>git rm --cached doNotTrack.txt
rm 'doNotTrack.txt'

C:\Users\4bran\Desktop\school\2122\CPR\Software\secondRepo>git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   doNotTrack2.txt

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

C:\Users\4bran\Desktop\school\2122\CPR\Software\secondRepo>git commit -m "untracked 1 file"
[master 46c22a7] untracked 1 file
 1 file changed, 2 insertions(+)
 create mode 100644 doNotTrack2.txt

C:\Users\4bran\Desktop\school\2122\CPR\Software\secondRepo>git rm --cached doNotTrack2.txt
rm 'doNotTrack2.txt'

C:\Users\4bran\Desktop\school\2122\CPR\Software\secondRepo>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\4bran\Desktop\school\2122\CPR\Software\secondRepo>git commit -m "untracked 2nd file"
[master d70bd34] untracked 2nd file
 1 file changed, 2 deletions(-)
 delete mode 100644 doNotTrack2.txt

```

Die Dateien werden durch **git rm -cached** vom adden ausgenommen

8: Dateien umbenennen

```
C:\Users\4bran\Desktop\school\2122\CPR\Software\secondRepo>git add doNotTrack.txt

C:\Users\4bran\Desktop\school\2122\CPR\Software\secondRepo>git commit -m "commit doNotTrack.txt"
[master 9b24ab3] commit doNotTrack.txt
 1 file changed, 2 insertions(+)
 create mode 100644 doNotTrack.txt

C:\Users\4bran\Desktop\school\2122\CPR\Software\secondRepo>git mv doNotTrack.txt doTrack.txt

C:\Users\4bran\Desktop\school\2122\CPR\Software\secondRepo>git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        renamed:   doNotTrack.txt -> doTrack.txt

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

C:\Users\4bran\Desktop\school\2122\CPR\Software\secondRepo>git commit -m "renamed files"
[master 6585583] renamed files
 1 file changed, 0 insertions(+), 0 deletions(-)
 rename doNotTrack.txt => doTrack.txt (100%)

C:\Users\4bran\Desktop\school\2122\CPR\Software\secondRepo>
```

Mithilfe von **git mv** können Dateien umbenennet werden

9: Änderungen einer Datei restaurieren

```
C:\Users\4bran\Desktop\school\2122\CPR\Software\secondRepo>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:   secondFile.txt

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

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

C:\Users\4bran\Desktop\school\2122\CPR\Software\secondRepo>git restore secondFile.txt

C:\Users\4bran\Desktop\school\2122\CPR\Software\secondRepo>git status
On branch master
Untracked files:
  (use "git add <file>..." to include in what will be committed)
        doNotTrack2.txt

nothing added to commit but untracked files present (use "git add" to track)

C:\Users\4bran\Desktop\school\2122\CPR\Software\secondRepo>
```

Durch **git restore** werden Änderungen rückgängig gemacht