

Git – Praxis

Installation:

```
C:\Users\Nutzer>git --version
git version 2.34.1.windows.1

C:\Users\Nutzer>
```

Einstellungen:

```
C:\Users\Nutzer>git config --list
http.sslcainfo=C:/Program Files/Git/mingw64/ssl/certs/ca-bundle.crt
http.sslbackend=openssl
diff.astextplain.textconv=astextplain
filter.lfs.clean=git-lfs clean -- %f
filter.lfs.smudge=git-lfs smudge -- %f
filter.lfs.process=git-lfs filter-process
filter.lfs.required=true
credential.helper=manager-core
core.autocrlf=true
core.fscache=true
core.symlinks=false
pull.rebase=false
credential.https://dev.azure.com.usehttppath=true
init.defaultbranch=master
user.email=angela.haeubl@gmail.com
user.name=ahaeubl

C:\Users\Nutzer>
```

Git Hilfe:

Auflistung Befehle:

git help

```
C:\Users\Nutzer>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

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\Nutzer>
```

HTML-Offline-Hilfe zu Befehl zB. „config“:

```
C:\Users\Nutzer>git help config
```

<> git-config.html ✕

C: > Program Files > Git > mingw64 > share > doc > git-doc > <> git-config.html > ...

```
1  <!DOCTYPE html>
2  <html xmlns="http://www.w3.org/1999/xhtml" lang="en">
3  <head>
```

Gekürzte Darstellung in cmd:

```
C:\Users\Nutzer>git config -h
usage: git config [<options>]

Config file location
  --global          use global config file
  --system          use system config file
  --local           use repository config file
  --worktree        use per-worktree config file
  -f, --file <file> use given config file
  --blob <blob-id>  read config from given blob object

Action
  --get             get value: name [value-pattern]
  --get-all        get all values: key [value-pattern]
  --get-regexp      get values for regexp: name-regex [value-pattern]
  --get-urlmatch    get value specific for the URL: section[.var] URL
  --replace-all    replace all matching variables: name value [value-pattern]
  --add            add a new variable: name value
  --unset          remove a variable: name [value-pattern]
  --unset-all      remove all matches: name [value-pattern]
  --rename-section  rename section: old-name new-name
  --remove-section  remove a section: name
  -l, --list        list all
  --fixed-value     use string equality when comparing values to 'value-pattern'
  -e, --edit        open an editor
  --get-color       find the color configured: slot [default]
  --get-colorbool   find the color setting: slot [stdout-is-tty]

Type
  -t, --type <>    value is given this type
  --bool           value is "true" or "false"
  --int            value is decimal number
  --bool-or-int    value is --bool or --int
  --bool-or-str    value is --bool or string
  --path           value is a path (file or directory name)
  --expiry-date    value is an expiry date

Other
  -z, --null        terminate values with NUL byte
  --name-only       show variable names only
  --includes        respect include directives on lookup
  --show-origin     show origin of config (file, standard input, blob, command line)
  --show-scope      show scope of config (worktree, local, global, system, command)
  --default <value> with --get, use default value when missing entry

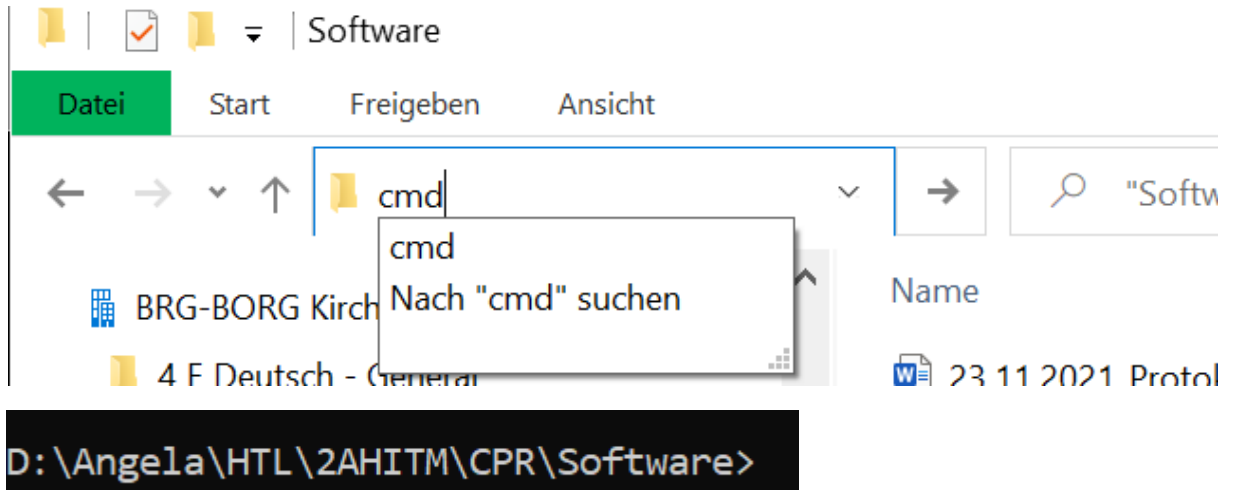
C:\Users\Nutzer>
```

Kommandozeileninterpreter:

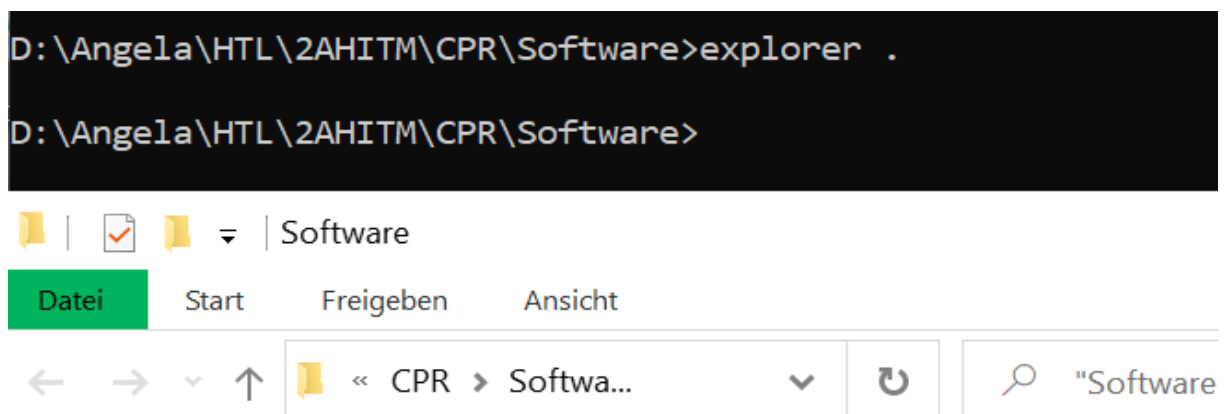
- Bei jedem Betriebssystem vorinstalliert
- Schriftliche Eingabe der Befehle
- Funktionen für Steuerung des Betriebssystems
- GUIs beschränken sich oft auf wesentliche Funktionen
- GUI anfangs intuitiver, jedoch Einarbeitung in jede neue GUI notwendig (bei CLI nicht der Fall)

CMD ↔ Explorer – im selben VZ öffnen

- Im Explorer in Verzeichnis in Adressleiste „cmd“ eingeben um diese im selben Verzeichnis zu öffnen

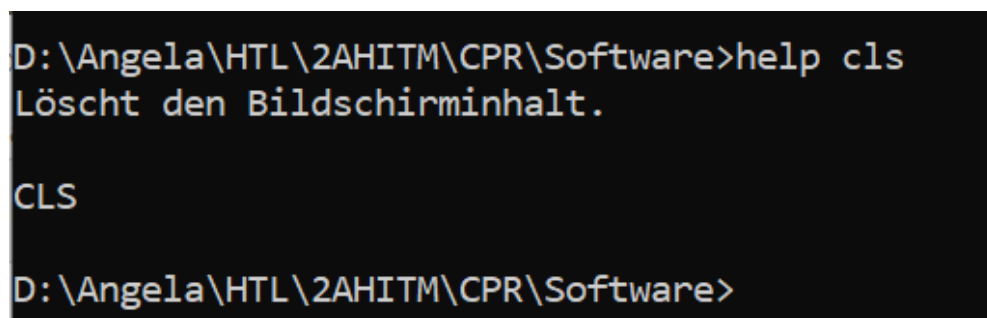


- Im CMD „explorer.“ eingeben um CLI im aktuellen Verzeichnis zu öffnen



Kommandozeileninterpreter:

1.)



2.)

Laufwerk anzuzeigen. Mit CD ohne Parameter wird das aktuelle Laufwerk und Verzeichnis angezeigt.

Verwenden Sie die /D-Option, um zusätzlich zum Wechseln des Verzeichnisses

3.)

```
D:\Angela\HTL\2AHITM\CPR\Software>cd ..
```

```
D:\Angela\HTL\2AHITM\CPR>cd..
```

```
D:\Angela\HTL\2AHITM>cd..
```

```
D:\Angela\HTL>cd..
```

```
D:\Angela>cd..
```

```
D:\>
```

4.)

```
D:\>dir
Volume in Laufwerk D: hat keine Bezeichnung.
Volumeseriennummer: D835-5B2E

Verzeichnis von D:\

02.12.2021  11:12    <DIR>          Adobe
19.12.2020  16:02    <DIR>          AfterEffects
24.11.2021  19:43    <DIR>          Angela
28.01.2018  12:28    <DIR>          assets
15.04.2019  18:09    <DIR>          Bewerbung
26.05.2019  13:12    <DIR>          BilderFamily
24.12.2018  16:51    <DIR>          Desktop
03.10.2018  17:01        0 desktop.ini
27.10.2018  15:09    <DIR>          FTBInfinity
10.12.2021  19:59    <DIR>          Games
03.03.2018  19:56    <DIR>          jre1.8.0_71
06.09.2018  09:10    <DIR>          libraries
06.10.2018  17:09    <DIR>          logs
19.12.2020  14:58    <DIR>          Musik
03.03.2018  19:56    <DIR>          OneNote-Notizbücher
09.10.2020  17:05    <DIR>          Program Files (x86)
17.05.2021  19:42    <DIR>          Programme
11.02.2021  18:35    <DIR>          Spiele
18.05.2019  20:51    <DIR>          survivalserver
28.04.2019  19:31      2.895.582 WhatsApp_Profilbil.jpg
                2 Datei(en),      2.895.582 Bytes
                18 Verzeichnis(se), 498.590.302.208 Bytes frei
```

5.)

```
D:\>cd Angela

D:\Angela>dir
Volume in Laufwerk D: hat keine Bezeichnung.
Volumeseriennummer: D835-5B2E

Verzeichnis von D:\Angela

24.11.2021  19:43  <DIR>      .
24.11.2021  19:43  <DIR>      ..
13.07.2021  20:26  <DIR>      Angela
30.09.2021  16:18  <DIR>      Bilder
24.01.2021  21:10      2.838.464 ChiwiOriginal.jpg
19.09.2021  16:09  <DIR>      Digital drawing
05.12.2021  21:17  <DIR>      Freunde
25.01.2021  13:27  <DIR>      Gaißschlag
16.09.2021  12:31  <DIR>      Genshin
17.05.2021  19:40  <DIR>      Handy Datein
11.12.2021  18:24  <DIR>      hmmmmmm
13.12.2021  11:03  <DIR>      HTL
24.01.2021  20:56      5.994.428 Kitty3.JPG
13.12.2021  09:41  <DIR>      Memes
08.10.2020  20:05  <DIR>      Minecraft Server 2019
19.12.2020  14:49  <DIR>      Minecraft Server Papa 19.12.2020
19.12.2020  15:20  <DIR>      Schreibwerkstatt
07.09.2021  18:14  <DIR>      Volkshule
16.04.2021  13:37  <DIR>      Webseite_Anita
                2 Datei(en),      8.832.892 Bytes
                17 Verzeichnis(se), 498.590.232.576 Bytes frei

D:\Angela>cd HTL

D:\Angela\HTL>dir
Volume in Laufwerk D: hat keine Bezeichnung.
Volumeseriennummer: D835-5B2E

Verzeichnis von D:\Angela\HTL

13.12.2021  11:03  <DIR>      .
13.12.2021  11:03  <DIR>      ..
19.09.2021  10:46  <DIR>      1AHITM
13.12.2021  12:24  <DIR>      2AHITM
13.12.2021  11:03  <DIR>      NWT
                0 Datei(en),      0 Bytes
                5 Verzeichnis(se), 498.590.232.576 Bytes frei

D:\Angela\HTL>cd 2AHITM

D:\Angela\HTL\2AHITM>dir
Volume in Laufwerk D: hat keine Bezeichnung.
Volumeseriennummer: D835-5B2E

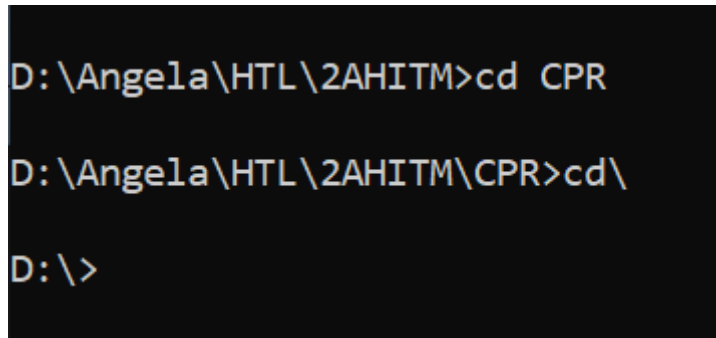
Verzeichnis von D:\Angela\HTL\2AHITM

13.12.2021  12:24  <DIR>      .
13.12.2021  12:24  <DIR>      ..
17.10.2021  18:56  <DIR>      AM
13.12.2021  12:24  <DIR>      CPR
16.11.2021  14:38  <DIR>      Englisch
13.12.2021  15:32  <DIR>      Geschichte
08.12.2021  21:00  <DIR>      ITP
11.12.2021  13:05  <DIR>      MEDPR
01.12.2021  19:09  <DIR>      MEDTWT
06.12.2021  11:54  <DIR>      NWT
12.12.2021  16:24  <DIR>      SEW
25.11.2021  21:28  <DIR>      SYT
24.11.2021  13:58  <DIR>      SYT Praxis
                0 Datei(en),      0 Bytes
                13 Verzeichnis(se), 498.590.232.576 Bytes frei

D:\Angela\HTL\2AHITM>cd CPR

D:\Angela\HTL\2AHITM\CPR>
```

6.)



```
D:\Angela\HTL\2AHITM>cd CPR
D:\Angela\HTL\2AHITM\CPR>cd\
D:\>
```

7.)

Die Pfeil-Taste nach oben geht die vorherigen Befehle durch, die Pfeil-Taste nach unten geht sie wieder zurück.

Git Repository:

- Der „Ablageort“ des Projekts

Möglichkeit 1: LOKAL:

- Nutze Repo nur für mich selbst
- Start eines neuen Projekts

Möglichkeit 2: VERTEILT:

- an bestehendem Repo teilnehmen (klonen)
- Gemeinsames Projekt

Git Repository (lokal):

- 3 Zustände

- Modified: Datei geändert, aber noch nicht in lokale Datenbank eingchecked
- Staged: eine geänderte Datei für nächsten Commit vorgemerkt
- Committed: Daten sicher in der lokalen Datenbank (Git-Verzeichnis) gespeichert

Lokales Repo erzeugen:

1.), 2.) & 3.)

```
D:\Angela\HTL\2AHITM\CPR\Software>cd CPRSW

D:\Angela\HTL\2AHITM\CPR\Software\CPRSW>cd..

D:\Angela\HTL\2AHITM\CPR\Software>mkdir CPRSW

D:\Angela\HTL\2AHITM\CPR\Software>cd CPRSW

D:\Angela\HTL\2AHITM\CPR\Software\CPRSW>mkdir firstRepo

D:\Angela\HTL\2AHITM\CPR\Software\CPRSW>cd firstRepo

D:\Angela\HTL\2AHITM\CPR\Software\CPRSW\firstRepo>
```

```
D:\Angela\HTL\2AHITM\CPR\Software\CPRSW\firstRepo>git init
Initialized empty Git repository in D:/Angela/HTL/2AHITM/CPR/Software/CPRSW/firstRepo/.git/
```

4.)

```
D:\Angela\HTL\2AHITM\CPR\Software\CPRSW\firstRepo>dir /adh
Volume in Laufwerk D: hat keine Bezeichnung.
Volumeseriennummer: D835-5B2E

Verzeichnis von D:\Angela\HTL\2AHITM\CPR\Software\CPRSW\firstRepo

14.12.2021  09:02    <DIR>          .git
               0 Datei(en),               0 Bytes
               1 Verzeichnis(se), 498.589.921.280 Bytes frei

D:\Angela\HTL\2AHITM\CPR\Software\CPRSW\firstRepo>
```


Der .git Ordner:

- Wird bei git init erzeugt
- Enthält alle Informationen, die zur Verwaltung des Repos nötig sind
 - Commit-Verlauf/Logs
 - Konfigurationsdatei (lokal)
 - aktivierbare Beispielskripte für Zusatzfunktionen (hooks)

```
D:\Angela\HTL\2AHITM\CPR\Software\CPRSW\firstRepo\.git>dir
Volume in Laufwerk D: hat keine Bezeichnung.
Volumeserienummer: D835-5B2E

Verzeichnis von D:\Angela\HTL\2AHITM\CPR\Software\CPRSW\firstRepo\.git

14.12.2021  09:02                130 config
14.12.2021  09:02                73 description
14.12.2021  09:02                23 HEAD
14.12.2021  09:02        <DIR>      hooks
14.12.2021  09:02        <DIR>      info
14.12.2021  09:02        <DIR>      objects
14.12.2021  09:02        <DIR>      refs
                3 Datei(en),          226 Bytes
                4 Verzeichnis(se), 498.589.888.512 Bytes frei

D:\Angela\HTL\2AHITM\CPR\Software\CPRSW\firstRepo\.git>
```

Status prüfen:

git status

```
D:\Angela\HTL\2AHITM\CPR\Software\CPRSW\firstRepo>git status
On branch master

No commits yet

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

D:\Angela\HTL\2AHITM\CPR\Software\CPRSW\firstRepo>
```

Inhalt adden:

Dateien hinzufügen:

- `git add file.txt`
- `git add -all`
- `git add *.java`

1.), 2.) & 3.)

```
D:\Angela\HTL\2AHITM\CPR\Software\CPRSW\firstRepo>git status
On branch master

No commits yet

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

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

4.)

```
D:\Angela\HTL\2AHITM\CPR\Software\CPRSW\firstRepo>git add firstFile.txt
D:\Angela\HTL\2AHITM\CPR\Software\CPRSW\firstRepo>
```

5.)

```
D:\Angela\HTL\2AHITM\CPR\Software\CPRSW\firstRepo>git status
On branch master

No commits yet

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

1.) & 2.)

```
D:\Angela\HTL\2AHITM\CPR\Software\CPRSW\firstRepo>git commit -m "First file added"
[master (root-commit) 300b9a3] First file added
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 firstFile.txt
D:\Angela\HTL\2AHITM\CPR\Software\CPRSW\firstRepo>
```

3.)

```
D:\Angela\HTL\2AHITM\CPR\Software\CPRSW\firstRepo>git status
On branch master
nothing to commit, working tree clean
```

Inhalt verändern:

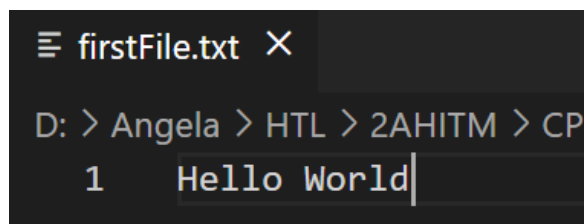
Dateien adden und committen:

1.) git add firstFile.txt

2.) git commit -m „Text hinzugefügt“

ODER git commit -a -m „Text hinzugefügt“

1.)



The screenshot shows a text editor window with the title bar 'firstFile.txt'. The main text area contains the line 'Hello World' on line 1. The path 'D: > Angela > HTL > 2AHITM > CP' is visible in the background.

2.)

```
D:\Angela\HTL\2AHITM\CPR\Software\CPRSW\firstRepo>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")
```

3.) & 4.)

```
D:\Angela\HTL\2AHITM\CPR\Software\CPRSW\firstRepo>git add firstFile.txt

D:\Angela\HTL\2AHITM\CPR\Software\CPRSW\firstRepo>git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        modified:   firstFile.txt
```

5.)

```
D:\Angela\HTL\2AHITM\CPR\Software\CPRSW\firstRepo>git commit -m "Zeile hinzugefügt"
[master b709fa9] Zeile hinzugefügt
1 file changed, 1 insertion(+)
```

Commit – Historie:

git log

(Modus beenden: q)

ODER

git log --pretty=online

```
D:\Angela\HTL\2AHITM\CPR\Software\CPRSW\firstRepo>git log
commit b709fa9cde30054727631b91a61e932884b6501e (HEAD -> master)
Author: ahaeubl <angela.haeubl@gmail.com>
Date: Tue Dec 14 09:21:11 2021 +0100

    Zeile hinzugefügt

commit 300b9a32eb883f43e30ceca6c1d964511d9517f0
Author: ahaeubl <angela.haeubl@gmail.com>
Date: Tue Dec 14 09:13:57 2021 +0100

    First file added
```

Dateien löschen:

git rm -f delFile.txt

1.) & 2.)

```
D:\Angela\HTL\2AHITM\CPR\Software\CPRSW\firstRepo>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)
```

3.)

```
D:\Angela\HTL\2AHITM\CPR\Software\CPRSW\firstRepo>git add .  
D:\Angela\HTL\2AHITM\CPR\Software\CPRSW\firstRepo>
```

4.)

```
D:\Angela\HTL\2AHITM\CPR\Software\CPRSW\firstRepo>git rm -f delFile.txt  
rm 'delFile.txt'
```

5.)

```
D:\Angela\HTL\2AHITM\CPR\Software\CPRSW\firstRepo>git status  
On branch master  
Changes to be committed:  
  (use "git restore --staged <file>..." to unstage)  
        new file:   delFile2.txt
```

6.)

```
D:\Angela\HTL\2AHITM\CPR\Software\CPRSW\firstRepo>git commit -m "add delFile.txt to local Repo"  
[master 1ab4f1e] add delFile.txt to local Repo  
 1 file changed, 0 insertions(+), 0 deletions(-)  
 create mode 100644 delFile2.txt
```

7.)

```
D:\Angela\HTL\2AHITM\CPR\Software\CPRSW\firstRepo>git rm -f delFile2.txt  
rm 'delFile2.txt'
```

8.)

```
D:\Angela\HTL\2AHITM\CPR\Software\CPRSW\firstRepo>git status  
On branch master  
Changes to be committed:  
  (use "git restore --staged <file>..." to unstage)  
        deleted:   delFile2.txt
```

9.)

```
D:\Angela\HTL\2AHITM\CPR\Software\CPRSW\firstRepo>git commit -m "delete delFile2.txt"
[master 2ca4b03] delete delFile2.txt
 1 file changed, 0 insertions(+), 0 deletions(-)
 delete mode 100644 delFile2.txt
```

Dateien löschen:

git rm --cached doNotTrack.txt

1.) & 2.)

```
D:\Angela\HTL\2AHITM\CPR\Software\CPRSW\firstRepo>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)
```

3.)

```
D:\Angela\HTL\2AHITM\CPR\Software\CPRSW\firstRepo>git add .
D:\Angela\HTL\2AHITM\CPR\Software\CPRSW\firstRepo>
```

4.)

```
D:\Angela\HTL\2AHITM\CPR\Software\CPRSW\firstRepo>git rm --cached doNotTrack.txt
rm 'doNotTrack.txt'
```

5.)

```
D:\Angela\HTL\2AHITM\CPR\Software\CPRSW\firstRepo>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
```

6.)

```
D:\Angela\HTL\2AHITM\CPR\Software\CPRSW\firstRepo>git commit -m "add doNotTrack2.txt"
[master 890a92a] add doNotTrack2.txt
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 doNotTrack2.txt
```

7.)

```
D:\Angela\HTL\2AHITM\CPR\Software\CPRSW\firstRepo>git rm -f doNotTrack2.txt
rm 'doNotTrack2.txt'
```

8.)

```
D:\Angela\HTL\2AHITM\CPR\Software\CPRSW\firstRepo>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)
        doNotTrack2.txt
```

9.)

```
D:\Angela\HTL\2AHITM\CPR\Software\CPRSW\firstRepo>git commit -m "untrack doNotTrack2.txt"
[master 0bcb147] untrack doNotTrack2.txt
1 file changed, 0 insertions(+), 0 deletions(-)
delete mode 100644 doNotTrack2.txt
```

Dateien umbenennen:

- Über Git durchführen sobald in Staging Area oder Repo! Andernfalls wird git die Datei nicht mehr zuordnen können!

```
git mv doNotTrack.txt doTrack.txt
```

1.)

```
D:\Angela\HTL\2AHITM\CPR\Software\CPRSW\firstRepo>git add doNotTrack.txt

D:\Angela\HTL\2AHITM\CPR\Software\CPRSW\firstRepo>git commit -m "commit doNotTrack.txt"
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)
```

2.)

```
D:\Angela\HTL\2AHITM\CPR\Software\CPRSW\firstRepo>git mv doNotTrack.txt doTrack.txt
D:\Angela\HTL\2AHITM\CPR\Software\CPRSW\firstRepo>
```

3.)

```
D:\Angela\HTL\2AHITM\CPR\Software\CPRSW\firstRepo>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
```

4.)

```
D:\Angela\HTL\2AHITM\CPR\Software\CPRSW\firstRepo>git commit -m "renamed files"
[master 0e38a4f] renamed files
1 file changed, 0 insertions(+), 0 deletions(-)
rename doNotTrack.txt => doTrack.txt (100%)
```

Änderungen einer Datei restoren:

- Möglich, solange nur „modified“ (also in Working Directory) und noch nicht geadded
- Macht Änderungen rückgängig -> erzeugt Stand des letzten commits

git restore firstFile.txt

1.)

```
D:\Angela\HTL\2AHITM\CPR\Software\CPRSW\firstRepo>git log
commit b709fa9cde30054727631b91a61e932884b6501e (HEAD -> master)
Author: ahaeubl <angela.haeubl@gmail.com>
Date: Tue Dec 14 09:21:11 2021 +0100

    Zeile hinzugefügt

commit 300b9a32eb883f43e30ceca6c1d964511d9517f0
Author: ahaeubl <angela.haeubl@gmail.com>
Date: Tue Dec 14 09:13:57 2021 +0100

    First file added
```

2.)

```
≡ firstFile.txt X
D: > Angela > HTL > 2AHITM
1 Hello World
2 Hello all!
```

3.)

```
D:\Angela\HTL\2AHITM\CPR\Software\CPRSW\firstRepo>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

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")
```

4.)

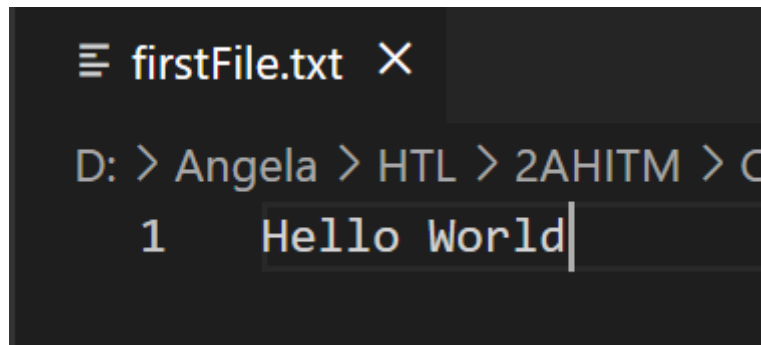
```
D:\Angela\HTL\2AHITM\CPR\Software\CPRSW\firstRepo>git restore firstFile.txt
```

5.)

```
D:\Angela\HTL\2AHITM\CPR\Software\CPRSW\firstRepo>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)
```

6.)



The screenshot shows a file explorer window with the title 'firstFile.txt'. The file is open, and the content 'Hello World' is visible in a text editor. The file is located in the directory 'D:\Angela\HTL\2AHITM\2AHITM\CPR\Software\CPRSW\firstRepo'.

Bestehendes GitHub Repo clonen:

1.) & 2.)

```
D:\Angela\HTL\2AHITM\CPR\Software\CPRSW\firstRepo>git clone https://github.com/MartinaReisHTL/CPRSW_StudentsShare.git
Cloning into 'CPRSW_StudentsShare'...
remote: Enumerating objects: 210, done.
remote: Counting objects: 100% (210/210), done.
remote: Compressing objects: 100% (139/139), done.
remote: Total 210 (delta 87), reused 163 (delta 58), pack-reused 0
Receiving objects: 100% (210/210), 10.33 MiB | 2.39 MiB/s, done.
Resolving deltas: 100% (87/87), done.
```

```
Verzeichnis von D:\Angela\HTL\2AHITM\CPR\Software\CPRSW\firstRepo\CPRSW_StudentsShare

14.12.2021  10:17    <DIR>          .git
              0 Datei(en),              0 Bytes
              1 Verzeichnis(se), 498.562.560.000 Bytes frei
```

```
Verzeichnis von D:\Angela\HTL\2AHITM\CPR\Software\CPRSW\firstRepo\CPRSW_StudentsShare

14.12.2021  10:17    <DIR>          .
14.12.2021  10:17    <DIR>          ..
14.12.2021  10:17           798.591 Bauer_firstSteps.pdf
14.12.2021  10:17           36 brandstaetter_message.txt
14.12.2021  10:17          657.937 Brandstaetter_Protokoll.pdf
14.12.2021  10:17          199.707 Cheat Sheet - Git Commands.pdf
14.12.2021  10:17         1.352.827 cprsw_gruppeA_Jakob_Hofer.pdf
14.12.2021  10:17          103.487 cprsw_gruppeA_Leonie_Adelwöhrer.pdf
14.12.2021  10:17          516.671 CPRSW_gruppeA_Maria_Aschenberger.pdf
14.12.2021  10:17          578.349 cprsw_gruppeA_Sophie_Binder.pdf
14.12.2021  10:17          691.795 cprsw_gruppeB_Friedrich_Kraml.pdf
14.12.2021  10:17          343.031 cprsw_gruppeB_Laurin_Poelderl.pdf
14.12.2021  10:17          709.134 cprsw_gruppeB_Lukas_Mayrhuber.pdf
14.12.2021  10:17         1.811.636 cprsw_gruppeB_Manuel_Puchner.pdf
14.12.2021  10:17          679.942 CPRSW_gruppeB_Mathias_Schablinger.docx
14.12.2021  10:17         1.093.857 CPRSW_WS_2_Git-Praxis.pdf
14.12.2021  10:17          798.591 firstSteps.pdf
14.12.2021  10:17           332 hello.txt
14.12.2021  10:17          383.996 MaximilianEgger.pdf
14.12.2021  10:17          555.097 Protokoll.pdf
14.12.2021  10:17          578.349 Protokoll_Sophie_Binder.pdf
                19 Datei(en),      11.853.365 Bytes
                2 Verzeichnis(se), 498.562.560.000 Bytes frei
```