# Versionsverwaltung mit Git

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```
objc[80911]: Class JavaLaunchHelper is implemented in both Exception in thread "main" java.io.FileNotFoundException: at java.io.FileInputStream.openO(Native Method) at java.io.FileInputStream.open(FileInputStream.java:19 at java.io.FileInputStream.<init>(FileInputStream.java at java.io.FileInputStream.<init>(FileInputStream.java at java.io.FileReader.<init>(FileReader.java:58) at explorekit.Program.main(Program.java:37)
```

Process finished with exit code 1

This is pdfTeX, Version 3.14159265-2.6-1.40.17 (TeX Live 20.16616)

```
This is pdfTeX, Version 3.14159265-2.6-1.40.17 (TeX Live 20)
restricted \write18 enabled.
entering extended mode
(./test.latex
LaTeX2e <2016/03/31>
Babel <3.9r> and hyphenation patterns for 83 language(s) lo
! Undefined control sequence.
1.1 \hypertarget
                {gliederung}{%
?
! LaTeX Error: Missing \begin{document}.
See the LaTeX manual or LaTeX Companion for explanation.
Type H <return> for immediate help.
```

- "Snapshots" wichtiger Zwischenergebnisse commits
- ▶ Backups remotes
- ► Fehler finden oder rückgängig machen checkout, diff
- strukturierte Kollaboration

#### git setup

- Basic Installation:
  - https://git-scm.com/downloads
  - ▶ Ubuntu: sudo apt-get install git
  - ▶ mac: brew install git
- Graphische Clients:
  - https://desktop.github.com (Windows/Mac)
  - https://www.gitkraken.com/ (Windows/Mac/Linux)
- Semigraphischer Client:
  - https://tortoisegit.org (Windows)
- Hosting
  - https://github.com
  - https://gitlab.com

## git setup

```
cd
ssh-keygen
cat .ssh/id_rsa.pub
```

#### git basics

```
git init
git status
git add # bzw. git reset
git commit -m "Did some stuff"
git log
git diff
git pull
git push
git branch
git checkout
```