# Version control with git + ssh and collaborative software development with conda

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## Why do we want to do version control and collaborative software development?

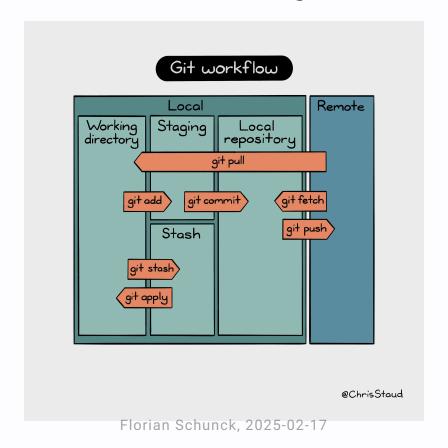
- We can easily distribute code, and revise it, discuss changes, go back in time
- The power of many! Many people can build much better and more stable software than a single person
- Free backups No more loss of code (and manuscripts)
- Versioning of software

## Basically the moment you are writing software that you would like to use more than once, you should start thinking about version control



#### How does git (version control) work?

Transferring files between local and remote places, keeping copies of files and updating them incrementally, to have a history of file changes



#### How does git (version control) work?

- git (https://git-scm.com) is by far the most common tool to do version control. It is usually, but not necessarily, coupled with remote repositories that act as a remote mirror of the local repository such as https://gitlab.uni-onsabrueck.de
- git is a command line tool, this means it is used with the terminal (linux, mac), cmd or powershell (Windows). Whenever you need to understand how git works, it is **help**ful to consult git --help



### Go to: https://github.com/flo-schu/collaborative-software-development and follow the README

git clone git@github.com:flo-schu/collaborative-software-development.git cd collaborative-software-development

#### **Hands on Git**