

Git course - Tutorial

Setting up git

This task is simply meant to let you set up everything to be able to use git.

- a) Install git and a client if you like. Instructions available at course website (See end of sheet).
- b) Get yourself an account at bitbucket¹ or github² or some similar platform. Maybe you already have access to some GitLab server? Since Microsoft acquired github, github also offers private repositories for free accounts.
- c) Use the course's git repo:
 - Clone the repository: (on terminal `git clone`)
HTML: `https://github.com/severin617/IMPRS-course-2019.git`
SSH: `git@github.com:severin617/IMPRS-course-2019.git`

```
$ git clone <user>@<url>:<repository>
```

- Compile Latex files, etc.

```
$ pdflatex tutorial_git.tex
```

- d) Create your own new repository (remote on github/gitlab/bitbucket or local).
 - Clone the repository to your machine.
 - Copy things into your local version of the repository. Maybe you want to write a new paper soon? Maybe some code?
 - Create your first commit and push it.

```
$ git add *  
$ git commit -m 'my first commit'
```

¹<https://bitbucket.org>

²<https://github.com>

Optional: Branches

If you have code, latex or anything: Set a github repository for it. It's best to learn from own examples. If you decide to later get rid of it, "ÖK!", but you gave it a try!

I don't know your background and how fast you are in grasping new things: In collaborative research projects, git branches are unavoidable.

- Make a local branch, for example in `git@github.com:severin617/IMPRS-course-2019.git`

```
git checkout -b [branch-name (your name?)] # creates a branch
git branch # shows what branch you're on
```

- Push the branch to github

```
git push origin [branch-name (your name?)]
```

- Check the github webpage to see if it worked!

Website

The website with slides and tutorials can be found at
https://www5.in.tum.de/wiki/index.php/Python/_Git/_Bash_Course.