Collaborating using git Forks and Pull Requests

Elke Fasshauer

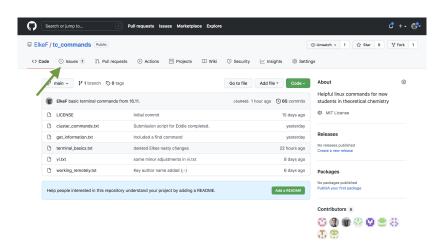
University of Tübingen

23rd November 2021

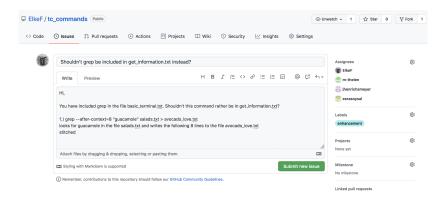
Goal

Write collection of useful commands that a student starting in the group will need.

Issues



Issues



Issues

How to write issues

- be specific
- obs: line numbers can change and are not specific
- be kind
- always add the filename you are talking about
- only one topic per issue

Types of issues

- I don't understand xyz.
- There is a typo in xyz.
- Another useful command is xyz. You could include it like this xyz.
- How do you do xyz? Could you be so kind to include it in file xyz?

Topics and teams

Current Contributors

- Andres
- Esra
- Johannes
- Kyle
- Mats
- Michael
- Reinhold
- Stefan

Collaborations Partners

- Adam
- Andre
- Eirik
- Joachim
- Joe
- Lauren
- Marc

Where to find today's slides



Collaborate in groups



Interacting with GitHub Issues

Closing and issue with a commit message

```
close #3
```

close, closes, closed, fix, fixes, fixed, resolve, resolves, resolved

Interacting with GitHub Issues

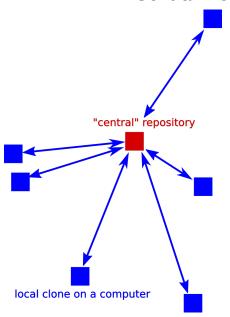
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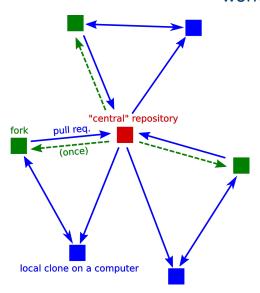
Central Workflow

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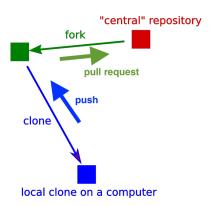


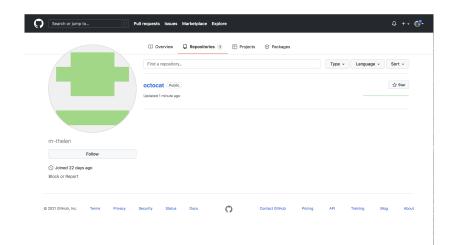
Distributed version control and forking workflow

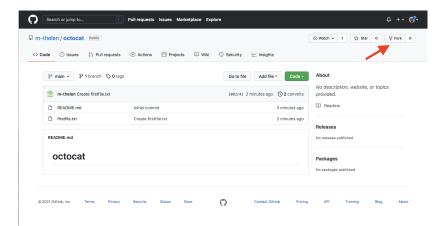
Distributed version control and forking workflow

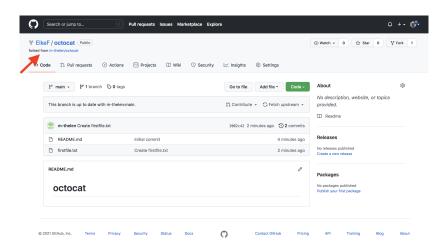


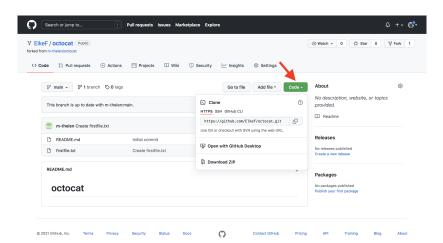
Distributed version control and forking workflow





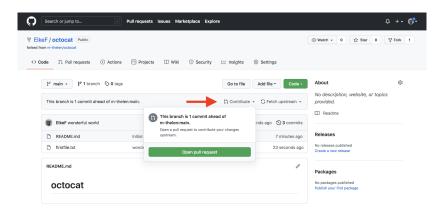




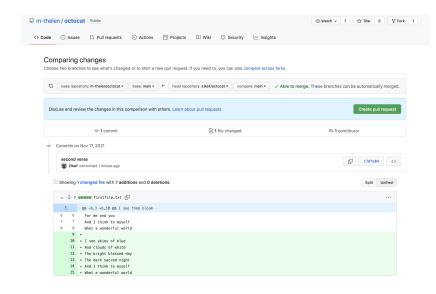


- · work locally on your clone
- · add changes to staging area
- commit
- · push to your fork

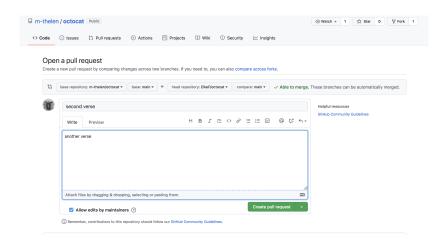
Creating a pull request

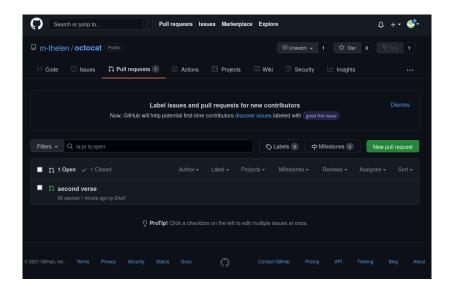


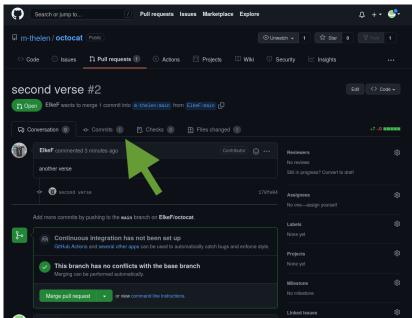
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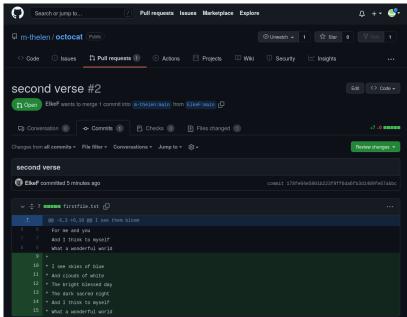


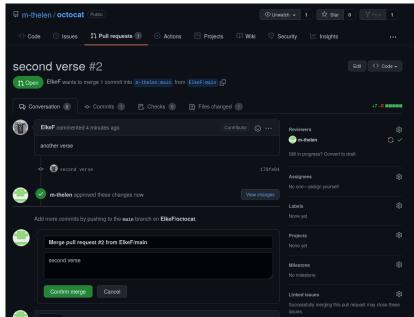
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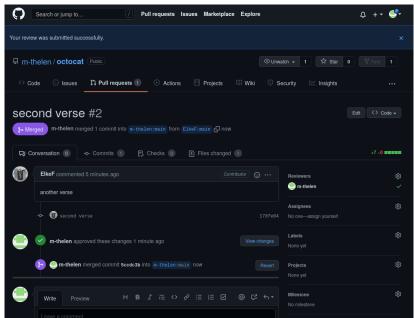




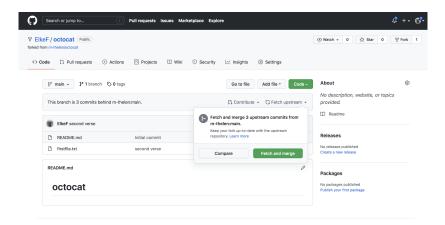




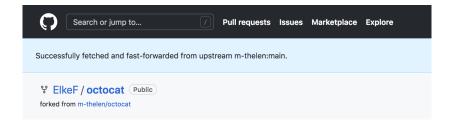




Fetching Updates from Other Remote Repo



Fetching Updates from Other Remote Repo



Tasks Contributors

- Fork the repository on my account
- 2 Clone your fork to your computer
- 3 Identify an issue for yourself
- Write that you are going to take care of it
- 5 If necessary, discuss with the issue creator
- 6 Fix it in your local repository
- Close the issue by using a keyword in the first commit line
- 8 Update your fork
- 9 Pull chanegs to your local repository, if necessary, solve conflicts
- 10 Push changes to your fork
- Create pull request
- Go through the list of pull request and perform code reviewon one of them.
 - If approriate, merge, otherwise discuss.
 - Do not review anything that concerns a file, where you contributed.
- Repeat from number 3