

Github

Quick Introduction

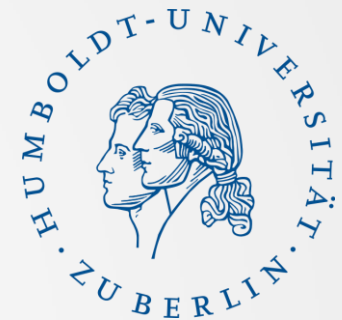
Petra Burdejova

Franziska Schulz

Ladislaus von Bortkiewicz Chair of
Statistics

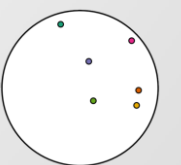
Humboldt-Universität zu Berlin

lvb.wiwi.hu-berlin.de



Outline

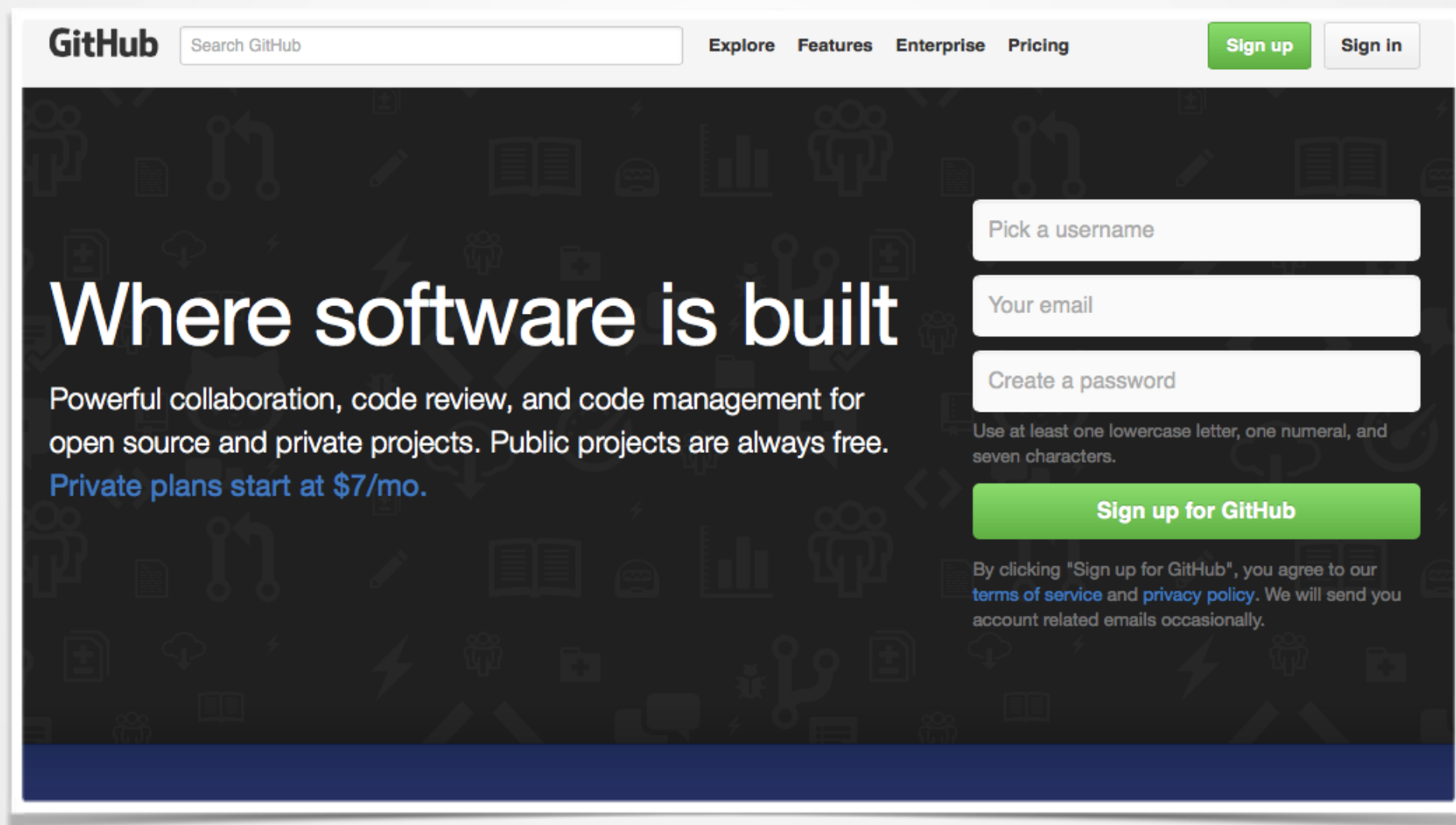
1. Create account / Sign in
2. Apply for student discount
3. Create Private Repository
4. Upload your documents
5. Invite teacher as collaborator



Create Github account

<https://github.com>

use (if possible) HU-email address



The screenshot shows the GitHub homepage with a sign-up form on the right. The form includes fields for 'Pick a username', 'Your email', and 'Create a password'. Below the password field is a note: 'Use at least one lowercase letter, one numeral, and seven characters.' A green 'Sign up for GitHub' button is at the bottom of the form. To the left of the form, the text 'Where software is built' is prominently displayed, followed by a description of GitHub's services and pricing: 'Powerful collaboration, code review, and code management for open source and private projects. Public projects are always free. Private plans start at \$7/mo.'

GitHub Search GitHub Explore Features Enterprise Pricing Sign up Sign in

Where software is built

Powerful collaboration, code review, and code management for open source and private projects. Public projects are always free. Private plans start at \$7/mo.

Pick a username

Your email

Create a password

Use at least one lowercase letter, one numeral, and seven characters.

Sign up for GitHub

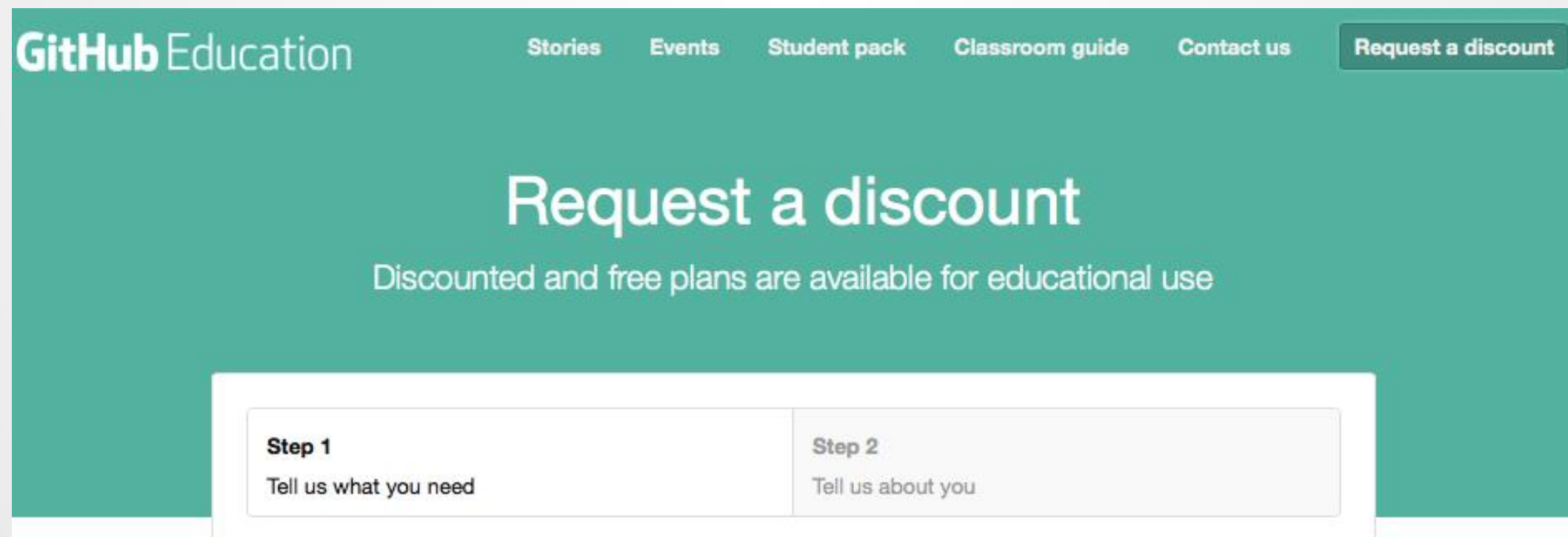
By clicking "Sign up for GitHub", you agree to our [terms of service](#) and [privacy policy](#). We will send you account related emails occasionally.



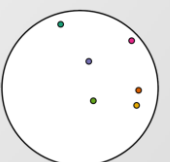
Student discount

https://education.github.com/discount_requests/new

- apply for student discount
- use HU-email address
- (confirmation should be sent within a few minutes)

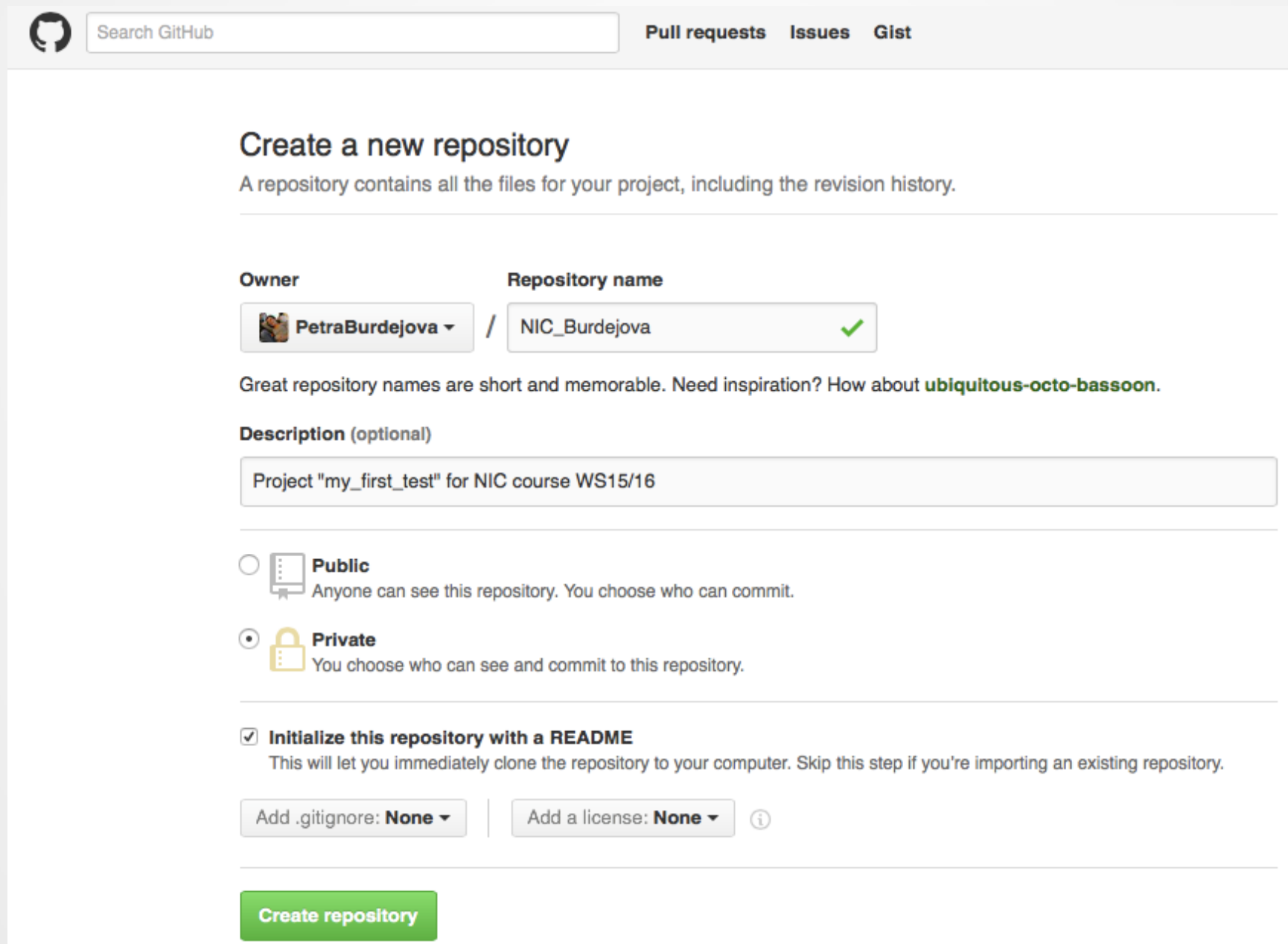


The screenshot shows the GitHub Education website's 'Request a discount' page. The header is teal with the 'GitHub Education' logo on the left and navigation links ('Stories', 'Events', 'Student pack', 'Classroom guide', 'Contact us', and a 'Request a discount' button) on the right. The main content area has a teal background with the title 'Request a discount' and the subtitle 'Discounted and free plans are available for educational use'. Below this is a white box containing a two-step process: 'Step 1: Tell us what you need' and 'Step 2: Tell us about you'.



Private repository

- create new (private if you want) repository
- mark “Initialize this repository with a README”




Search GitHub Pull requests Issues Gist

Create a new repository

A repository contains all the files for your project, including the revision history.

Owner **Repository name**

 PetraBurdejova ▾ / NIC_Burdejova ✓

Great repository names are short and memorable. Need inspiration? How about **ubiquitous-octo-bassoon**.

Description (optional)

Project "my_first_test" for NIC course WS15/16

☐ **Public**
Anyone can see this repository. You choose who can commit.

☒ **Private**
You choose who can see and commit to this repository.

☒ **Initialize this repository with a README**
This will let you immediately clone the repository to your computer. Skip this step if you're importing an existing repository.

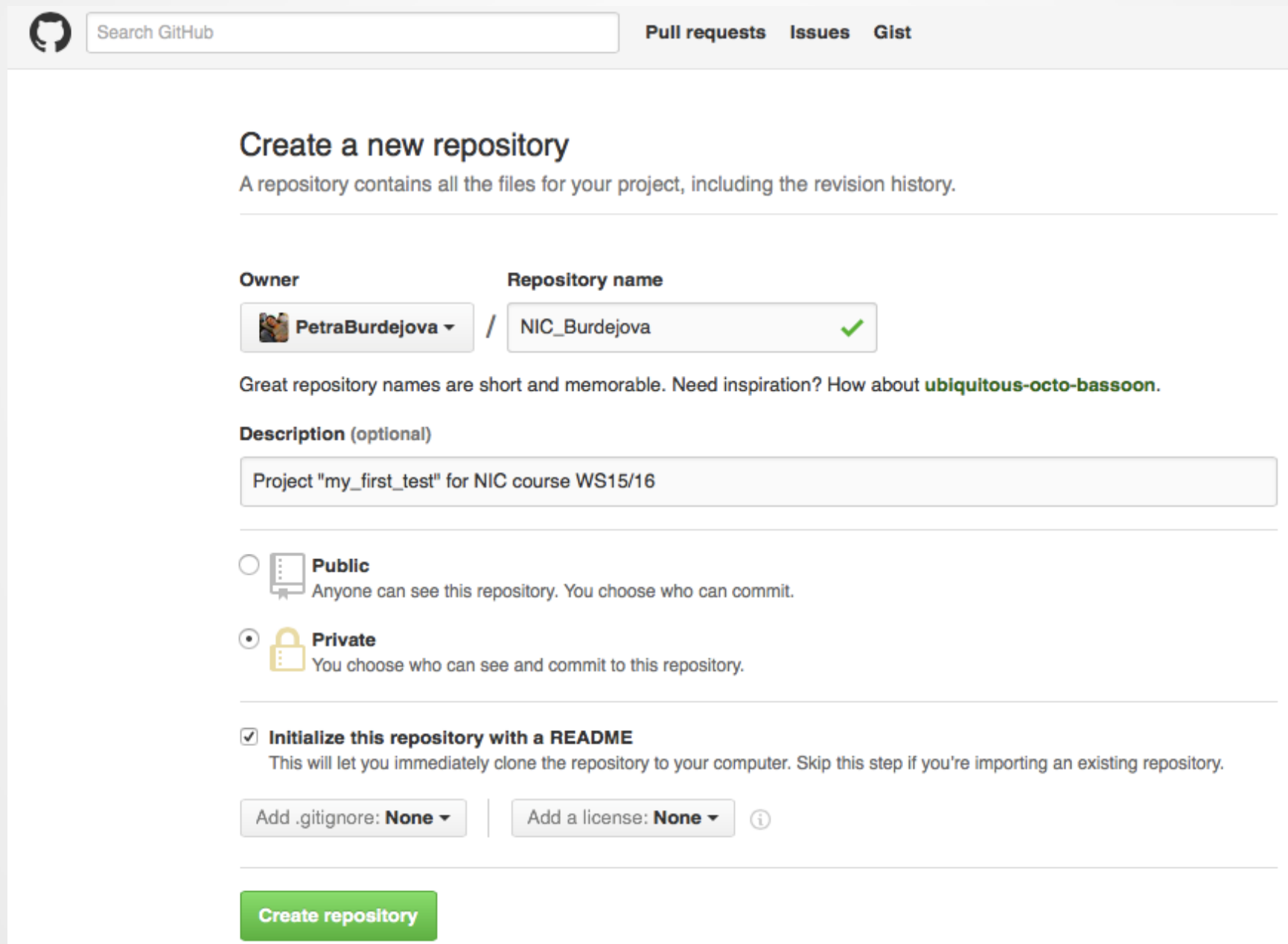
Add .gitignore: **None** ▾ | Add a license: **None** ▾ ⓘ

Create repository



Private repository

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


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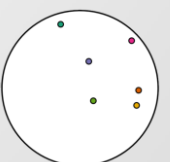
Create repository



Upload files

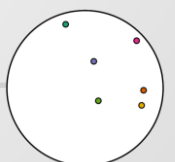
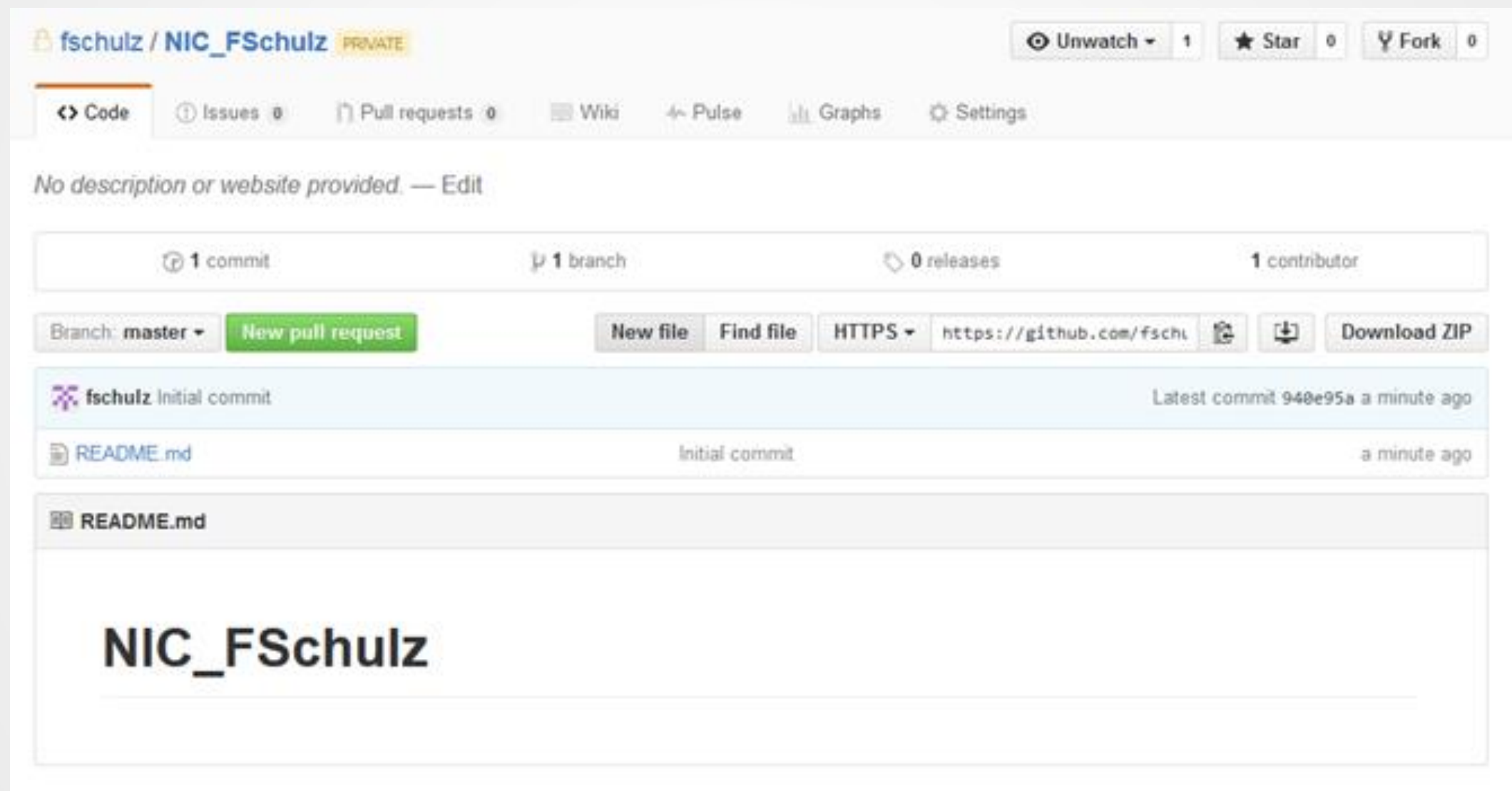
There are several possibilities how to upload the code:

- I. Directly (copy the code)
- II. Use the Source tree
- III. Use the Github Desktop



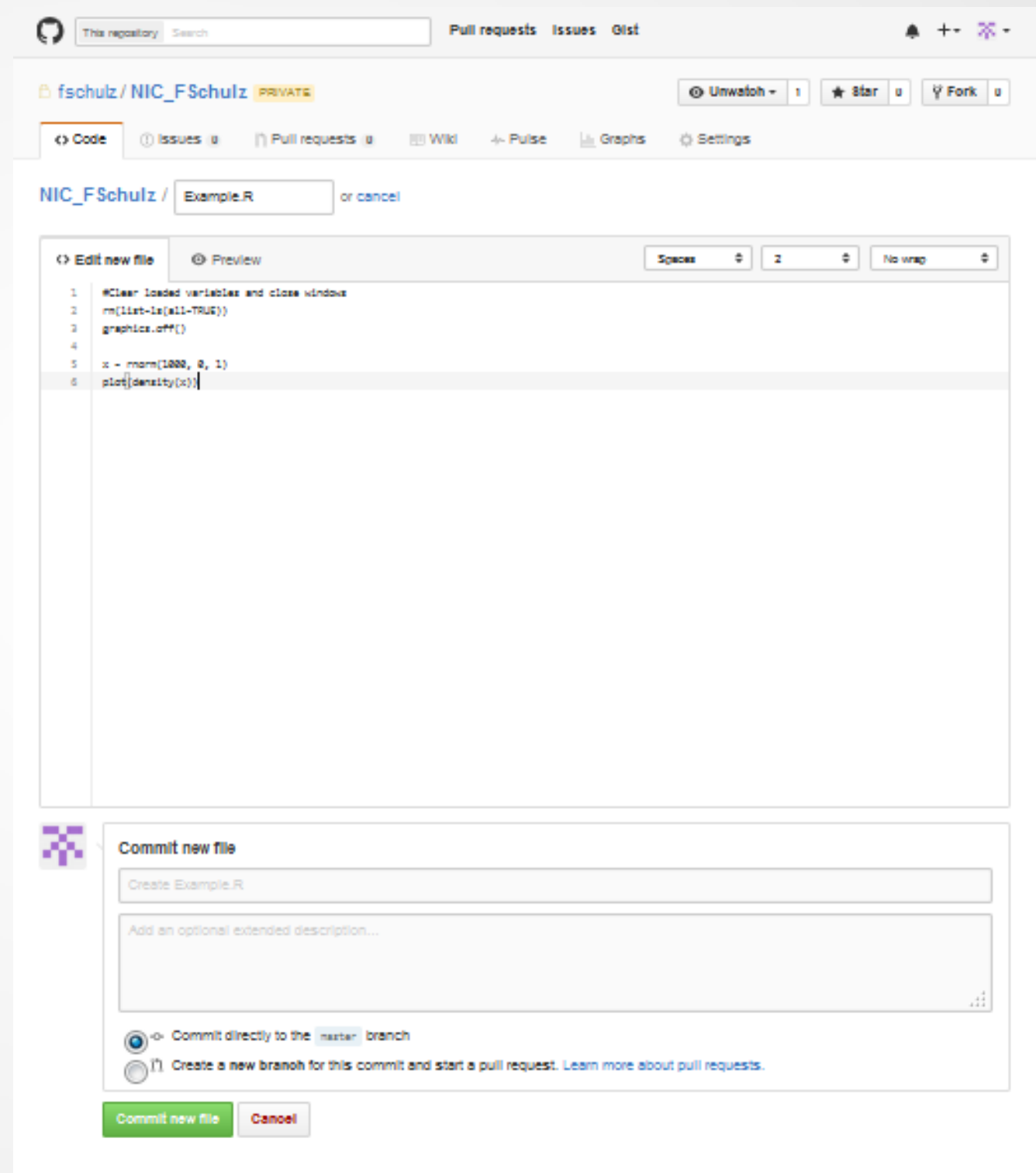
I. Upload files - Directly

- ◉ Choose „New file“



I. Upload files - Directly

- Give it a name
- Paste your content
- Press „Commit new file“



I. Upload files - Directly

- There it is:

The screenshot shows a GitHub repository page for user 'fschulz' and repository 'NIC_FSchulz'. The repository is marked as 'PRIVATE'. At the top, there are navigation links for 'Pull requests', 'Issues', and 'Gist'. Below the repository name, there are buttons for 'Unwatch' (1), 'Star' (0), and 'Fork' (0). A secondary navigation bar includes 'Code', 'Issues' (0), 'Pull requests' (0), 'Wiki', 'Pulse', 'Graphs', and 'Settings'. The main content area shows 'No description or website provided. — Edit'. Below this, a summary bar displays '4 commits', '1 branch', '0 releases', and '1 contributor'. A row of buttons includes 'Branch: master', 'New pull request', 'New file', 'Find file', 'HTTPS' (with a dropdown arrow), the repository URL 'https://github.com/fschulz/', a download icon, and 'Download ZIP'. A commit history table follows, with columns for the commit author, message, and time. The table lists two commits: 'fschulz Create Example.R' (12 seconds ago) and 'Initial commit' (17 minutes ago). Below the table, the 'README.md' file is previewed, showing the text 'NIC_FSchulz'.

Commit	Message	Time
fschulz	Create Example.R	12 seconds ago
	Initial commit	17 minutes ago

README.md

NIC_FSchulz



II. Upload files - via Source tree

Download Sourcetree app

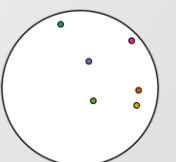
<https://www.atlassian.com/software/sourcetree/overview/>

or

<https://itunes.apple.com/de/app/sourcetree-git-hg/id411678673?mt=12>

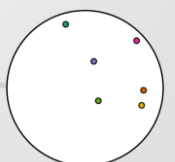
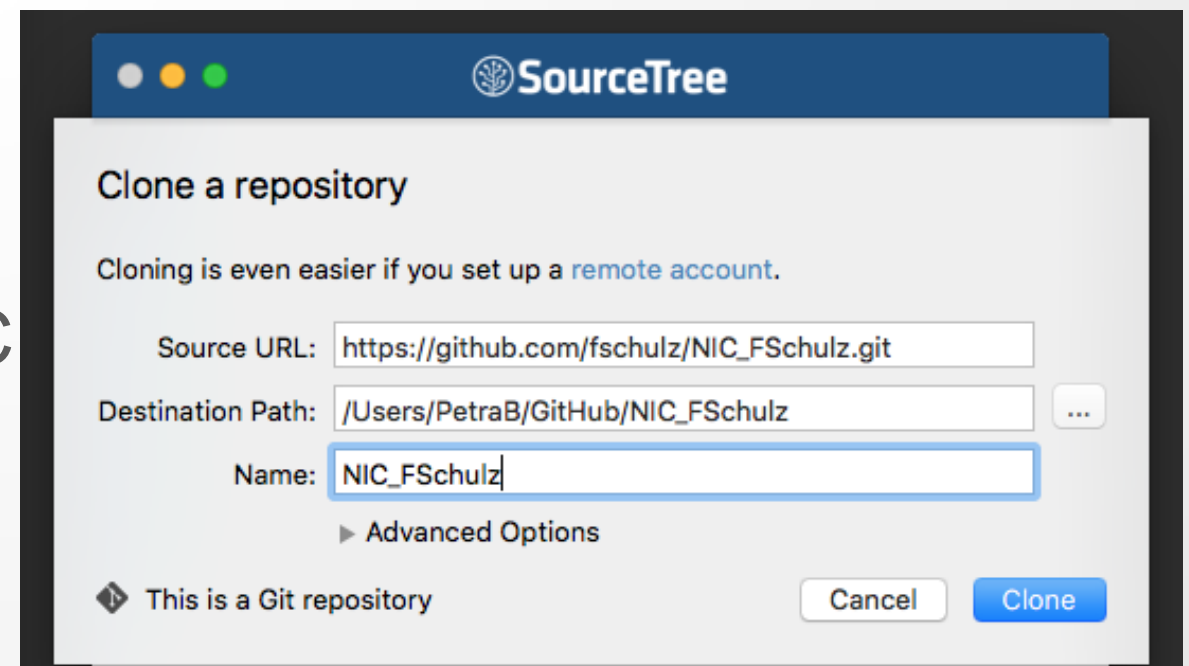
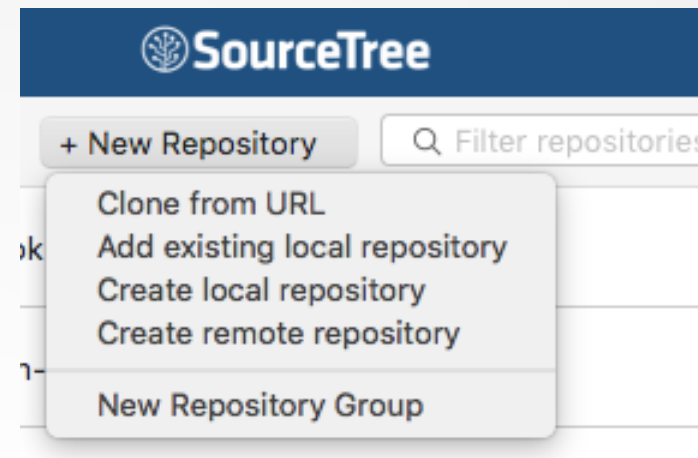
or

<http://www.macupdate.com/app/mac/35643/sourcetree>



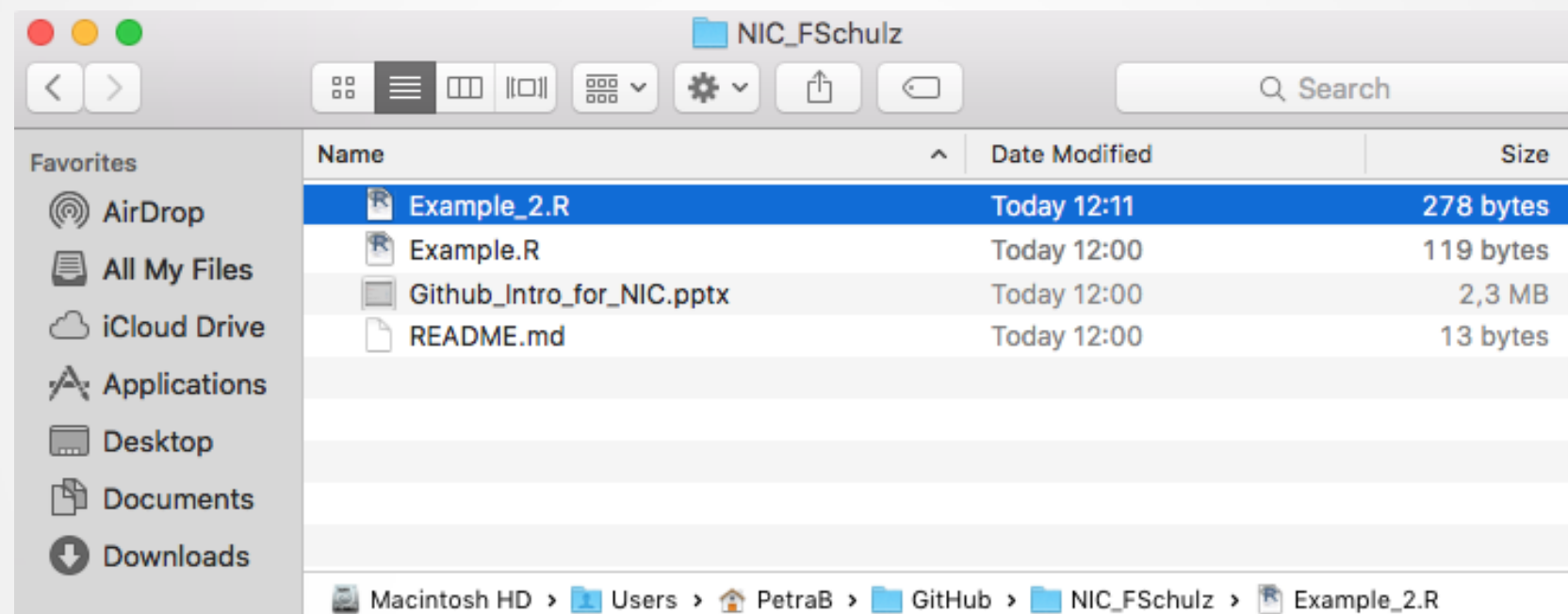
II. Upload files - via Source tree

- Open application
- Click “+ *New repository*”
- Select “*Clone from URL*”
- Copy the URL of your repository
- Choose the folder in your PC
- Click “*Clone*”



II. Upload files - via Source tree

- If you or your collaborators already uploaded some files into the repository, you will see them in your PC now

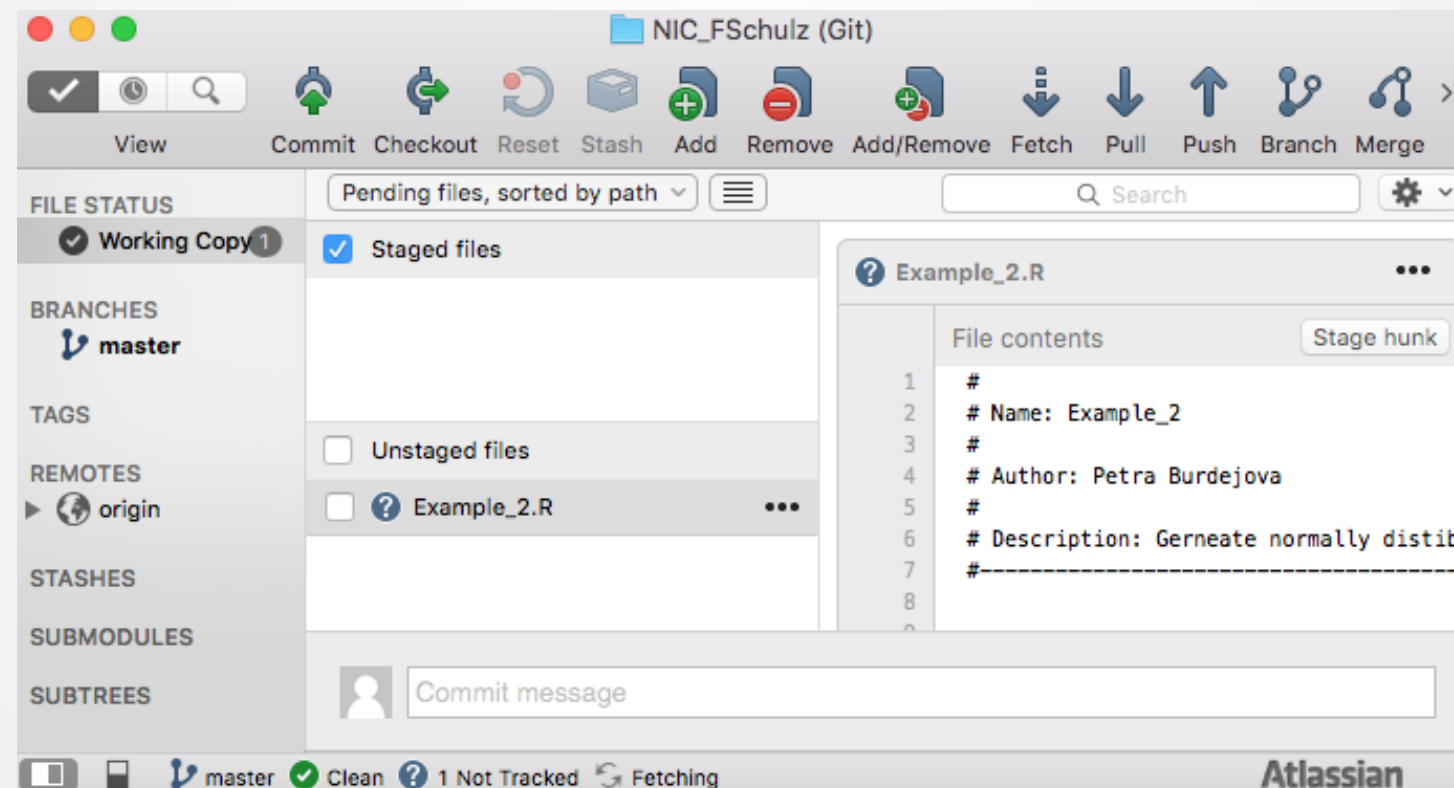


- Drag&Drop the files you want to upload into this folder



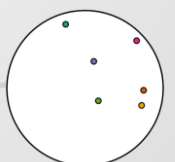
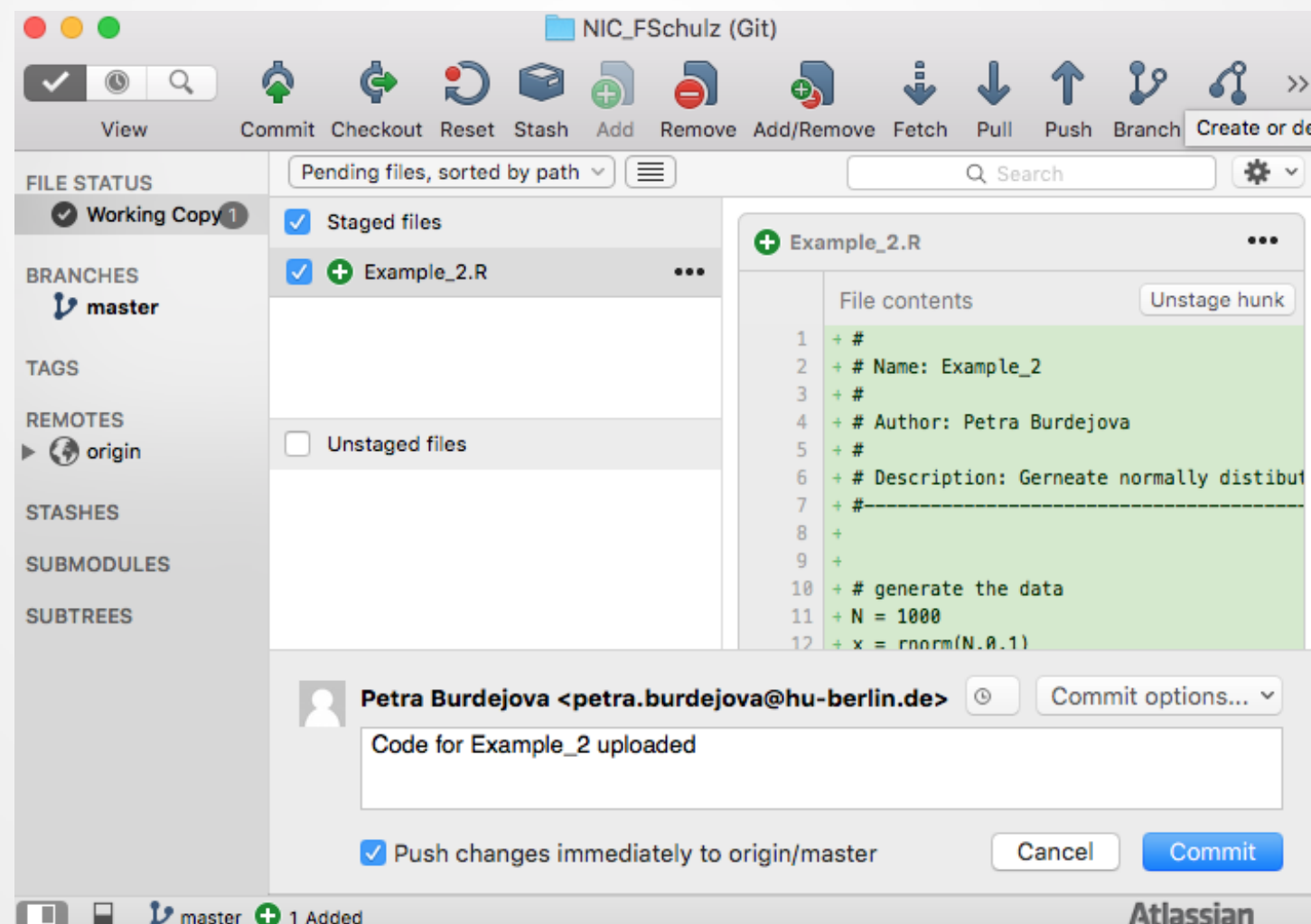
II. Upload files - via Source tree

- If you look into Sourcetree now:
The file you added is there – as unstaged file



II. Upload files - via Source tree

- Choose your files
- You can also write a comment to explain the changes you made
- Mark “*Push changes immediately to origin/master*”
- And press “*Commit*”

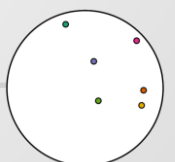


II. Upload files - via Source tree

- Your file is there. Other collaborators will see it and can edit it.
- Any change you make in your folder now, can be just pushed to github via sourcetree.

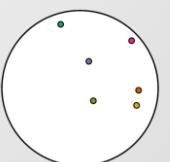
The screenshot displays the GitHub interface for a private repository named 'NIC_FSchulz' by user 'fschulz'. The repository has 7 commits, 1 branch, 0 releases, and 1 contributor. A recent commit by PetraBurdejova is highlighted, showing the upload of 'Code for Example_2'. The file list includes 'Example.R', 'Example_2.R', 'Github_Intro_for_NIC.pptx', and 'README.md'.

File	Commit Message	Time
Example.R	Create Example.R	5 days ago
Example_2.R	Code for Example_2 uploaded	3 minutes ago
Github_Intro_for_NIC.pptx	update	5 days ago
README.md	Initial commit	5 days ago

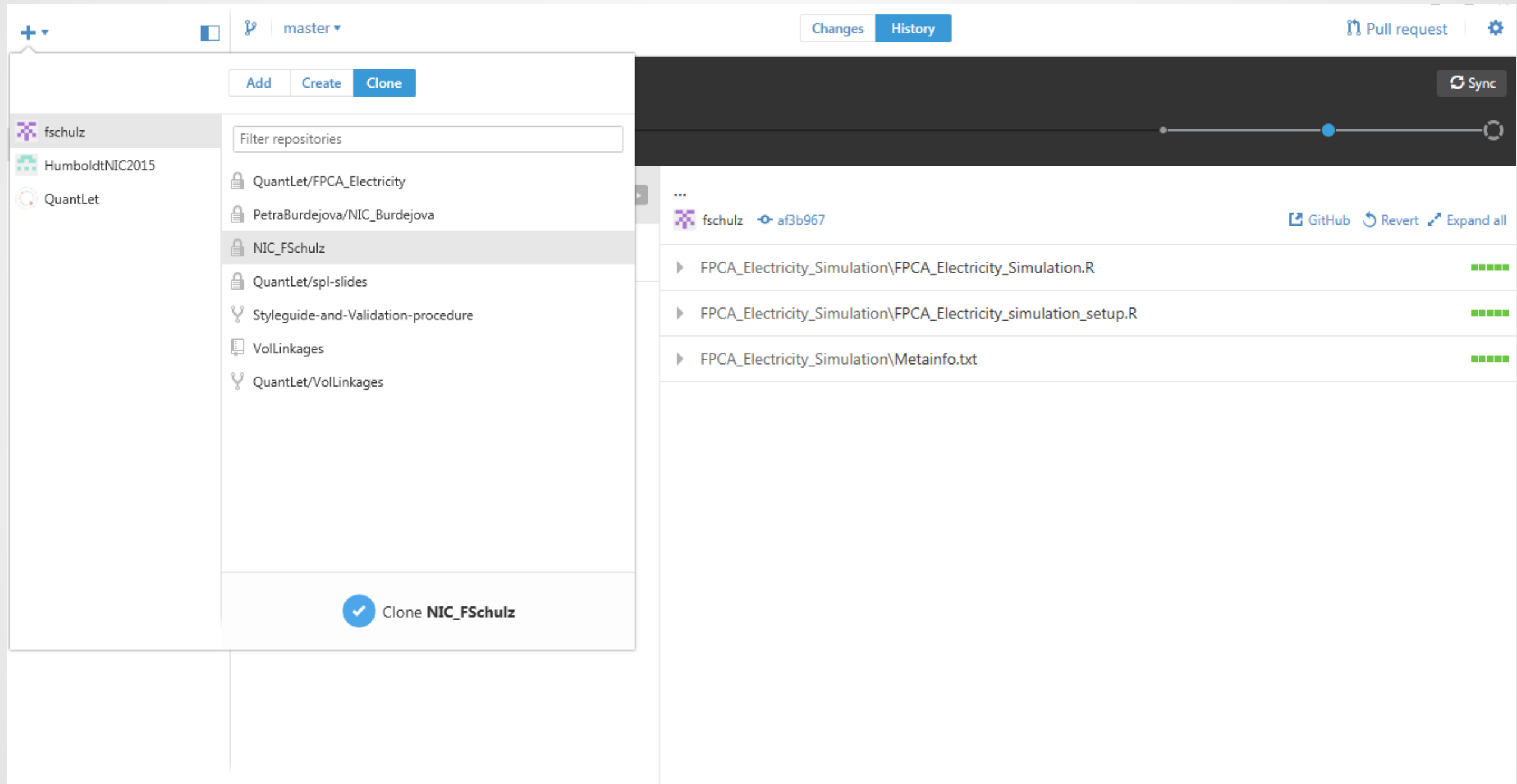


III. Upload files - via Github Desktop

- Download Github Desktop from <https://desktop.github.com/>
- Open Github Desktop
- Choose „create, clone or add new repository“ (+)
- Select „Clone“
- Select your repository
- Press Clone <repository name>

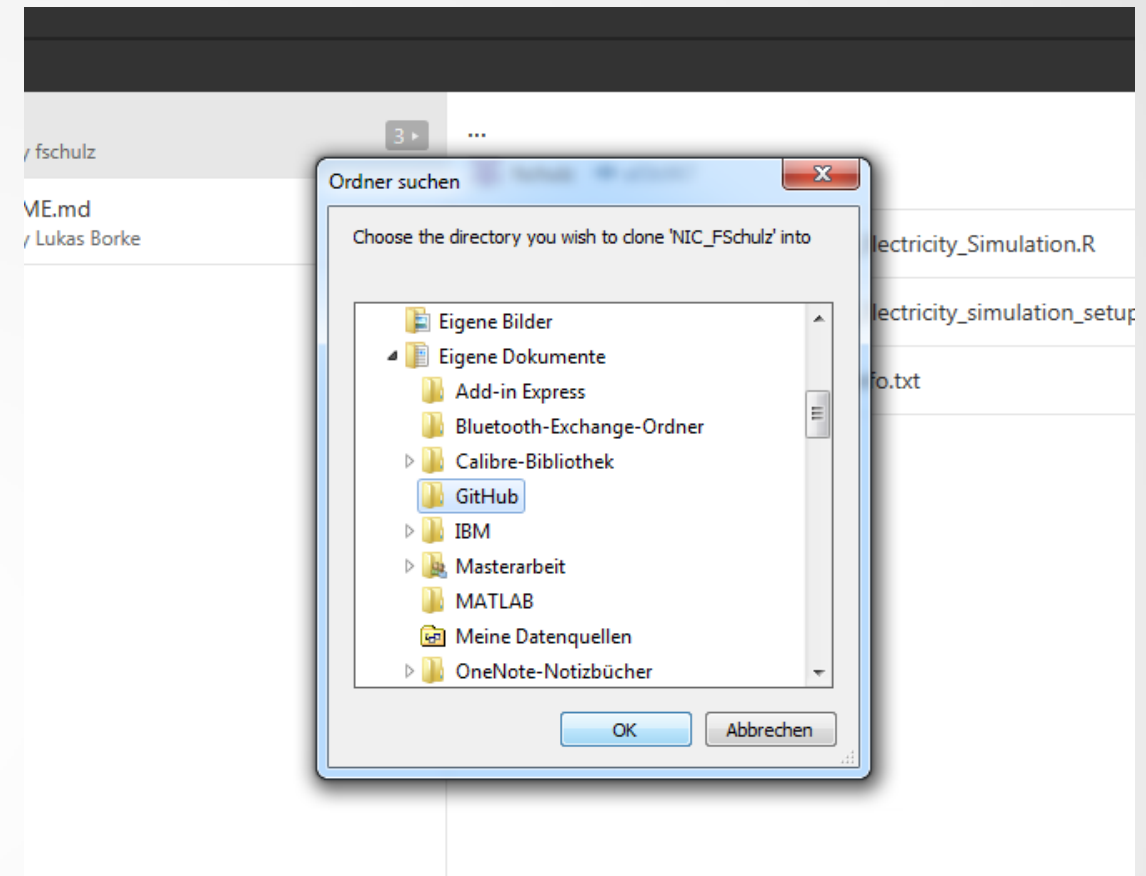


III. Upload files - via Github Desktop



III. Upload files - via Github Desktop

- Choose a directory where you wish to clone your repository to. (You may wish to create a folder where you can store all your Github repositories)






- Now, you can open the corresponding folder:

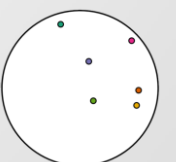
No local changes
Would you like to [open this repository in Explorer?](#)



III. Upload files - via Github Desktop

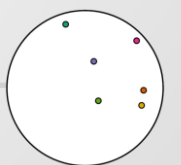
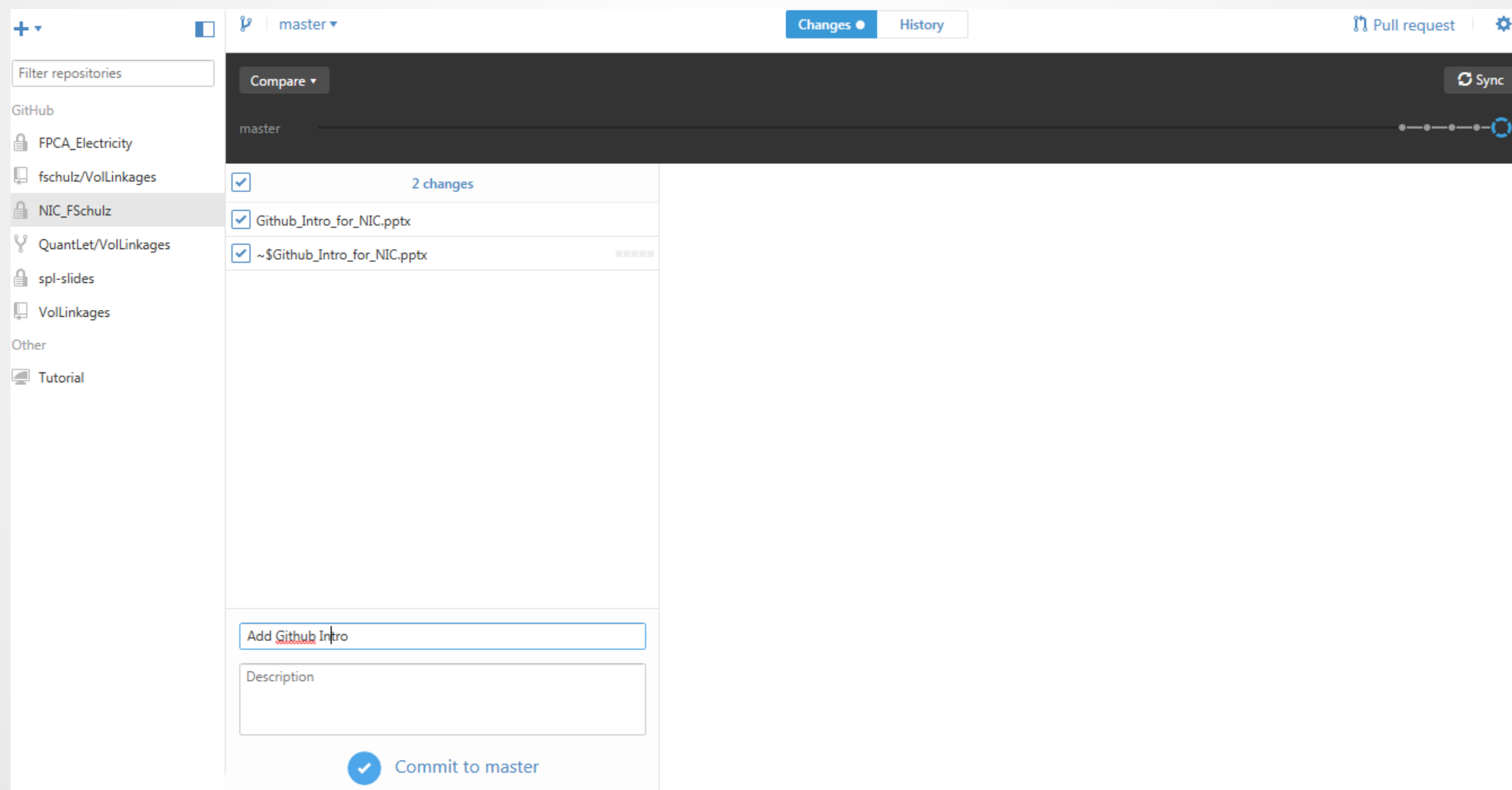
- You can now add anything to this folder

fnehmen ▼ Freigeben für ▼ Neuer Ordner				
Name	Änderungsdatum	Typ	Größe	
 Example	10.02.2016 11:52	R-Datei	1 KB	
 Github_Intro_for_NIC	10.02.2016 11:59	Microsoft PowerP...	2.128 KB	
 README.md	10.02.2016 11:52	MD-Datei	1 KB	



III. Upload files - via Github Desktop

- In order to upload it to Github, you need to add a summary about your changes
- Press “Commit to master”
- Press “Sync” to synchronize your local repository with the master



III. Upload files - via Github Desktop

- It will now appear in your online Github repository

The screenshot shows the GitHub web interface for a repository named 'NIC_FSchulz' by user 'fschulz'. The repository is marked as 'PRIVATE'. At the top, there are navigation links for 'Pull requests', 'Issues', and 'Gist'. Below the repository name, there are buttons for 'Unwatch', 'Star' (0), and 'Fork' (0). A secondary navigation bar includes 'Code', 'Issues' (0), 'Pull requests' (0), 'Wiki', 'Pulse', 'Graphs', and 'Settings'. The main content area shows 'No description or website provided. — Edit'. Below this, a summary bar indicates '5 commits', '1 branch', '0 releases', and '1 contributor'. A row of buttons includes 'Branch: master', 'New pull request', 'New file', 'Find file', 'HTTPS' (with a dropdown arrow), the repository URL 'https://github.com/fschulz/', a copy icon, a download icon, and 'Download ZIP'. A commit history table follows, listing three commits: 'fschulz Add Github Intro' (latest commit 2e4e4e6, 6 minutes ago), 'Example.R' (Create Example.R, 39 minutes ago), and 'Github_Intro_for_NIC.pptx' (Add Github Intro, 6 minutes ago). The bottom section shows the 'README.md' file content, which displays 'NIC_FSchulz' in a large, bold font.

Commit	Message	Time
fschulz Add Github Intro	Latest commit 2e4e4e6	6 minutes ago
Example.R	Create Example.R	39 minutes ago
Github_Intro_for_NIC.pptx	Add Github Intro	6 minutes ago
README.md	Initial commit	an hour ago



Invite teacher

- add us (“fschulz”, “ebommes” and “schultkr”) as collaborators

The screenshot shows the GitHub interface for the repository **PetraBurdejova / NIC_Burdejova**, which is marked as **PRIVATE**. The repository has 1 watch, 0 stars, and 0 forks. The **Settings** tab is active, and the **Collaborators** section is selected in the left sidebar. The main content area shows that the repository currently has no collaborators. A search bar is present with the text "fschulz" entered. Below the search bar, a dropdown menu displays two suggestions: "fschulz" (highlighted) and "fschulze Florian Schulze". An "Add collaborator" button is visible to the right of the search bar.

