

Introduction to Git & GitHub

Terminal, RStudio

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AG Landscape Ecology

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Create a GitHub account

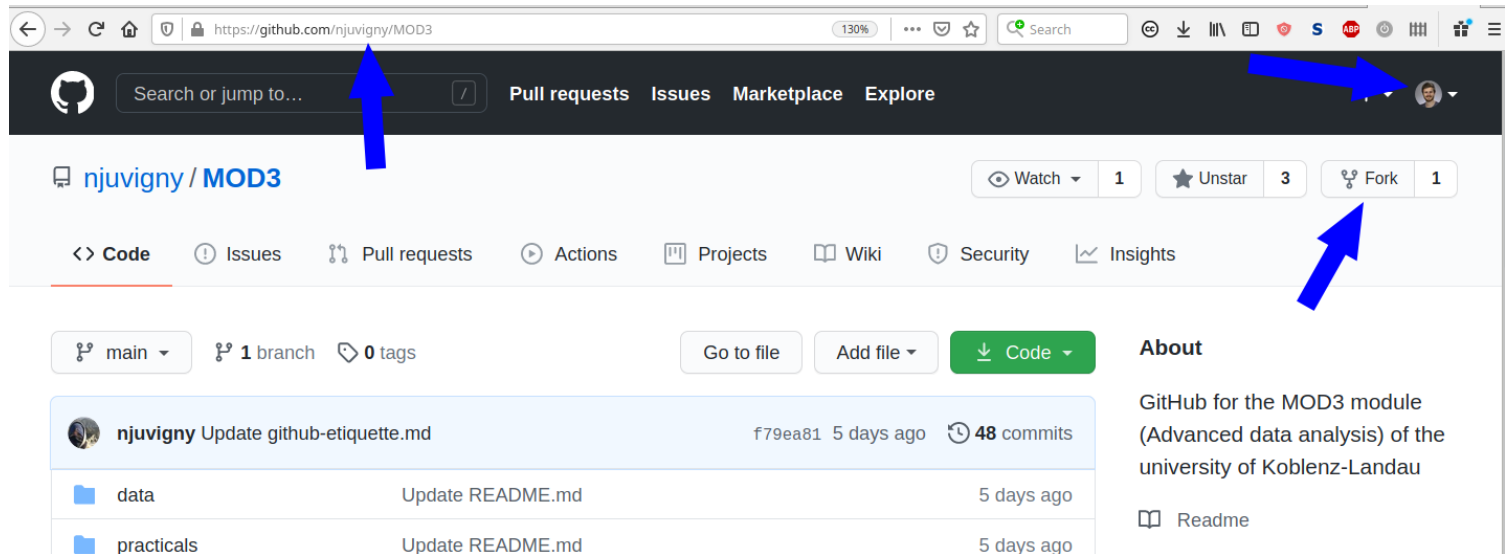
- modern software development
- Git is software
- GitHub is platform

Other Plattformen

- GitLab
- BitBucket

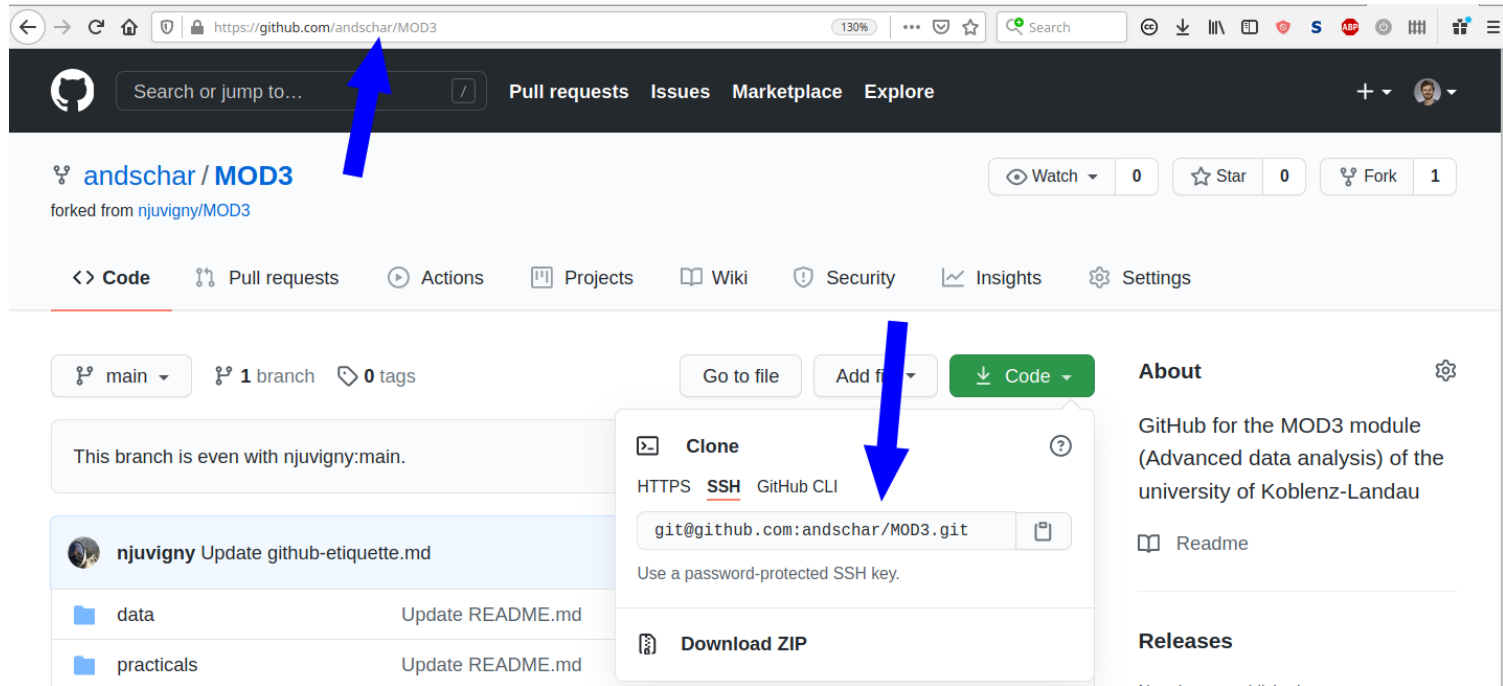
Fork a repository

- Fork from someone to your GtiHub account



Clone a repository

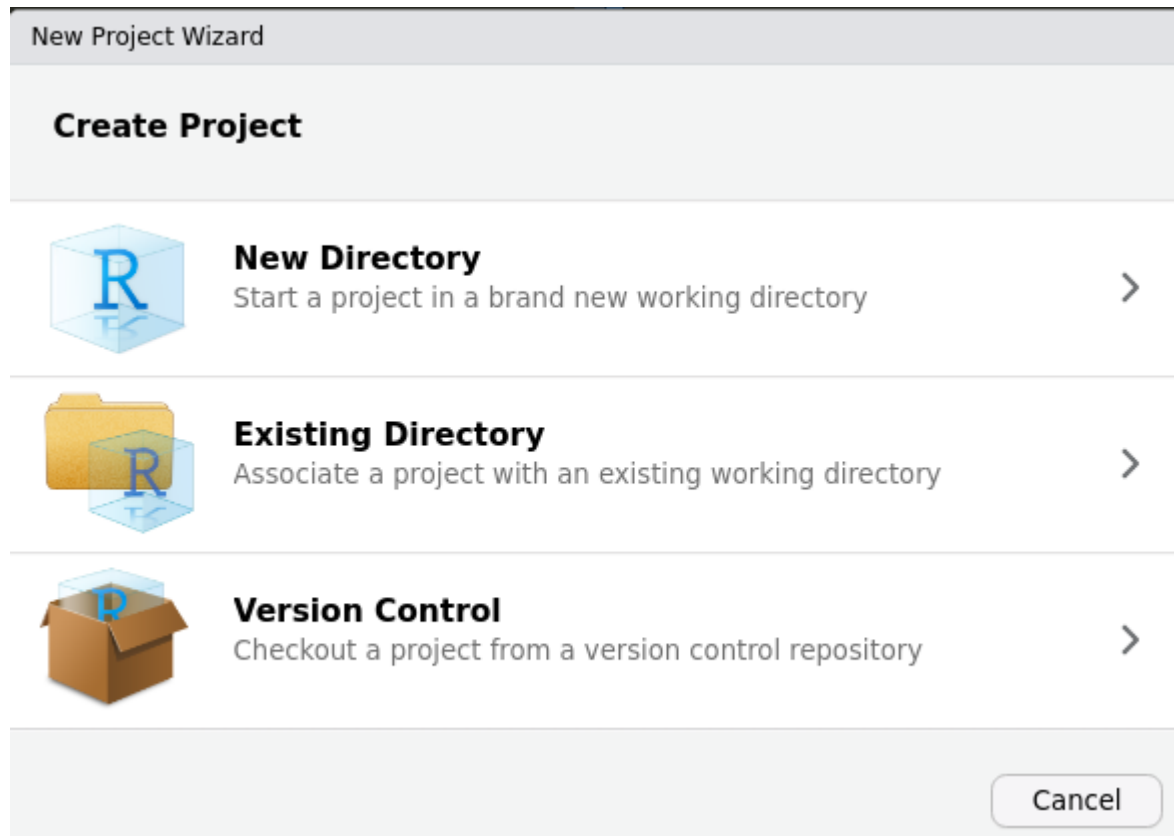
- Clone **your** fork (i.e. version) to your local machine



Clone a repository

```
cd Projects
```

```
git clone git@github.com:njuvigny/MOD3.git
```



Local changes

- Make changes to the .txt, .R, .python or to whatever file

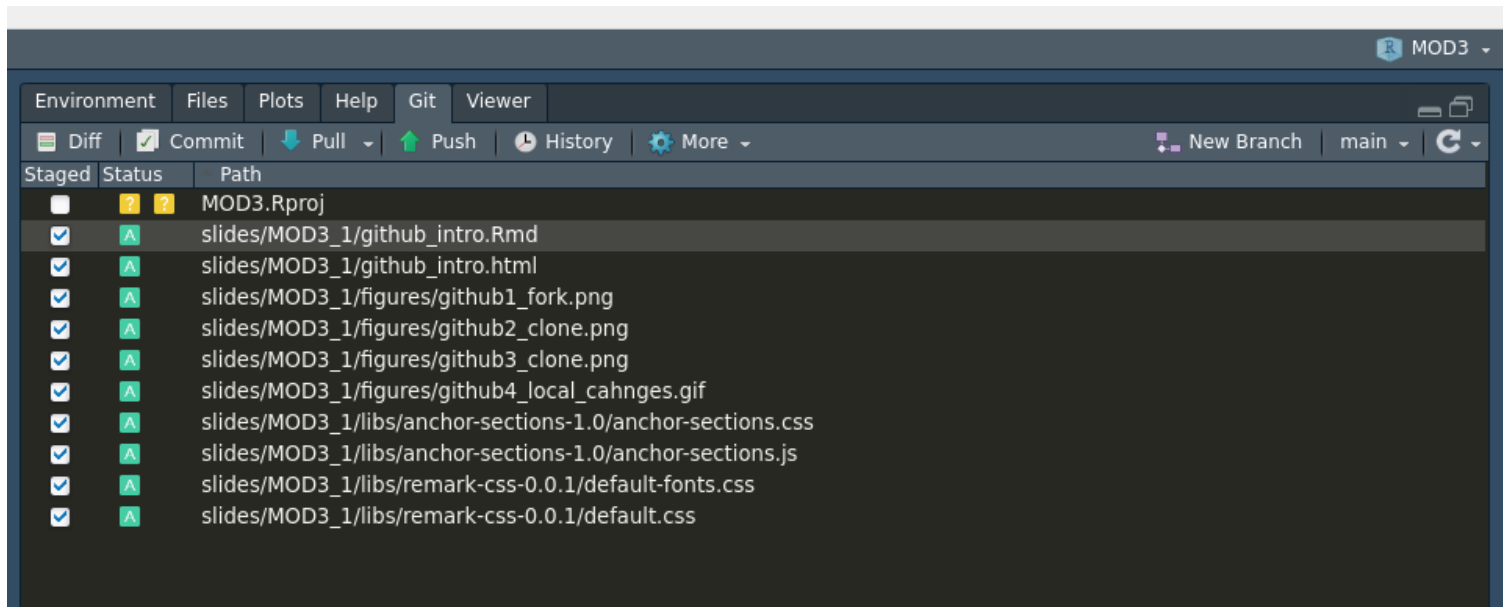


{#id .class height=3px}

Stage your changes

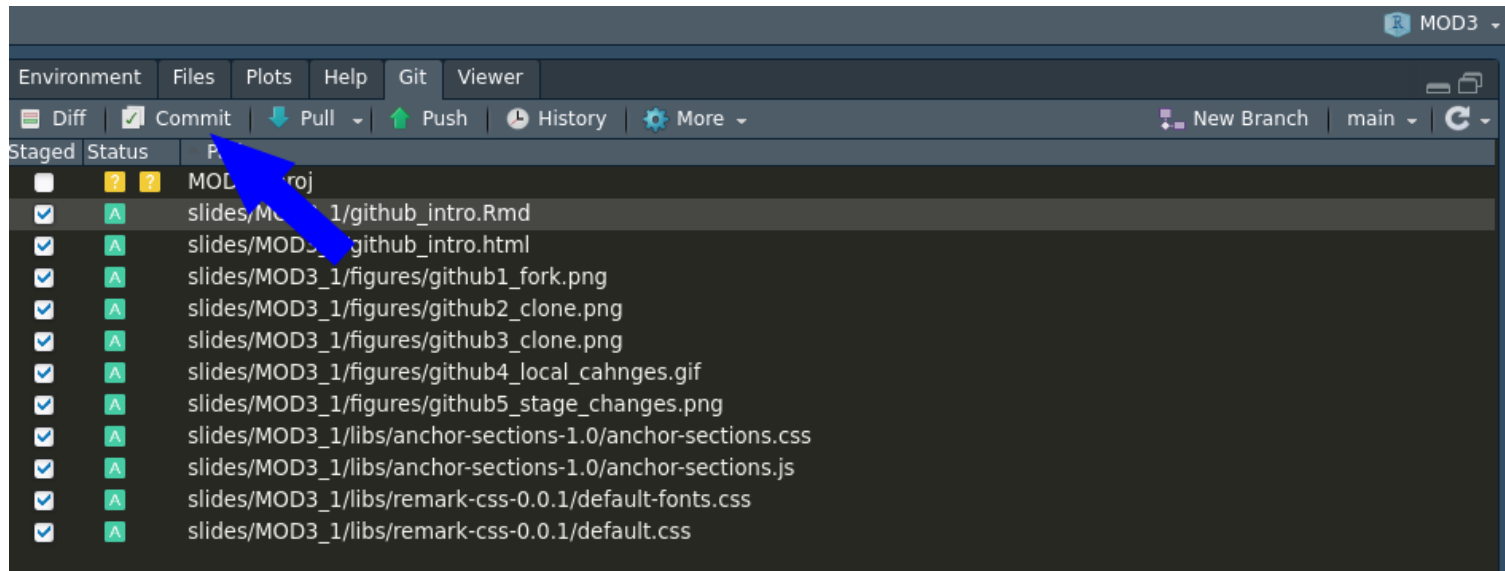
```
git add file.txt
```

```
git add -A
```



Commit changes

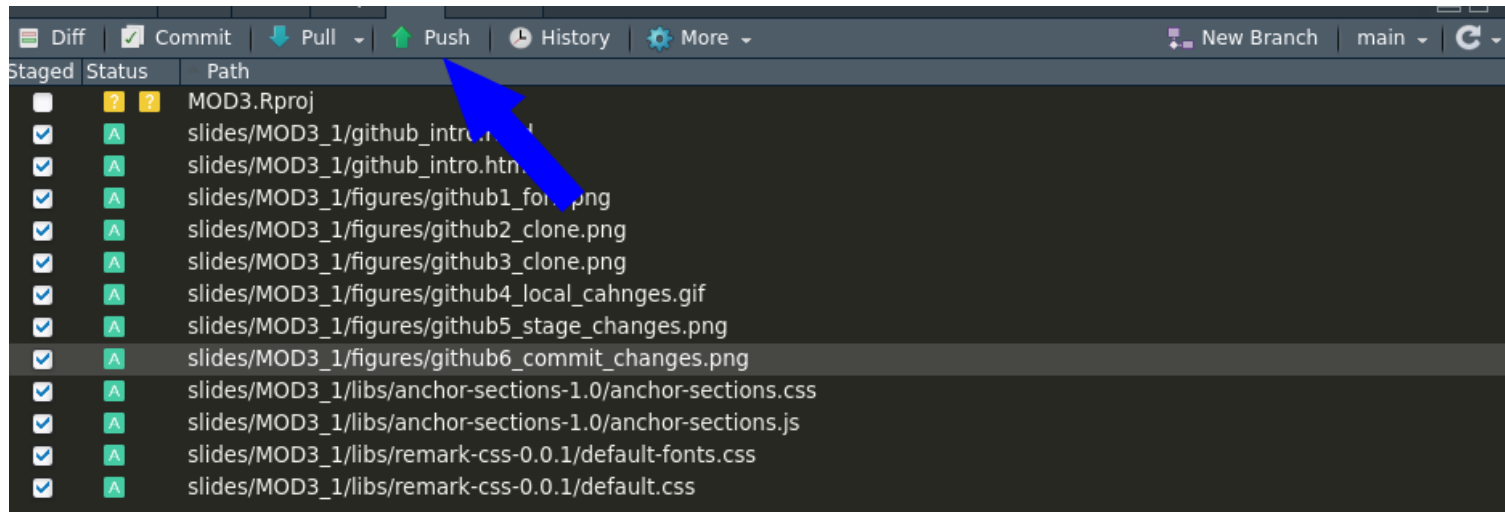
```
git commit -m 'message here'
```



Push to your repo (origin)

```
git push origin master
```

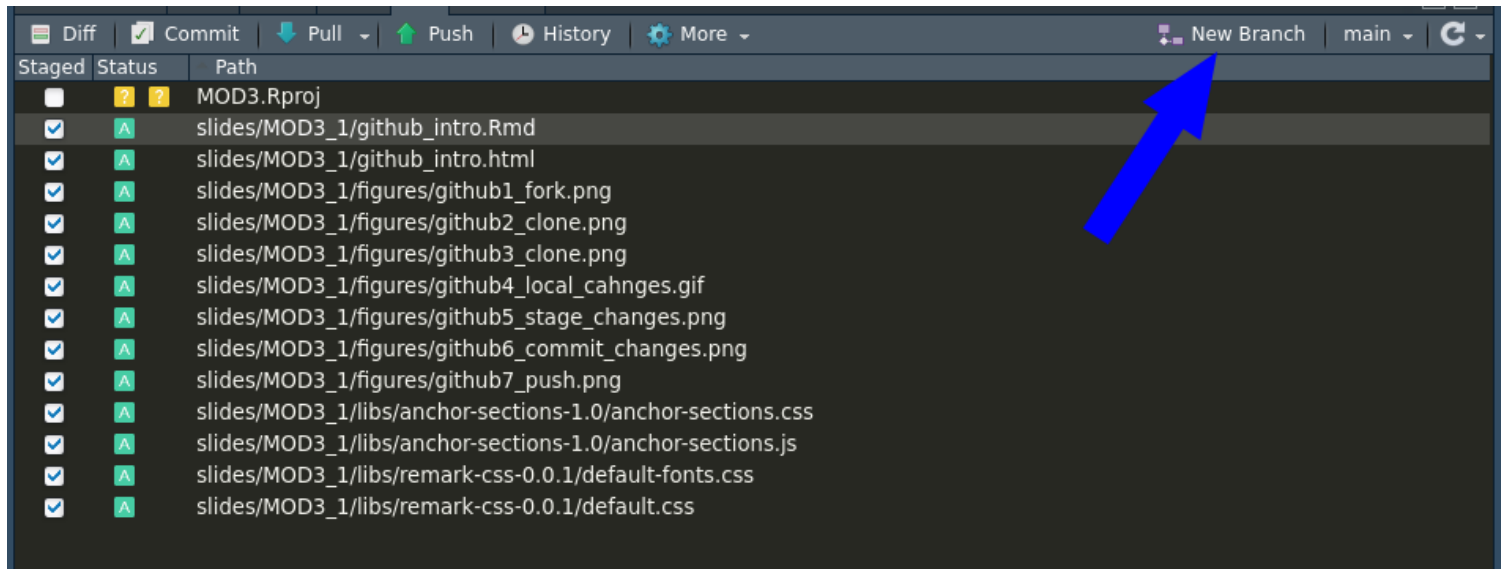
```
git push origin main
```



Switch branch

```
git checkout -b dev_scharmueLLer
```

```
git checkout main
```



Pull-Request to original repo (remote)

The screenshot shows the GitHub interface for a repository named 'andschar / MOD3', which is a fork of 'njuvigny/MOD3'. The repository is on the 'main' branch, which is 1 commit ahead of the upstream 'njuvigny:main'. A pull request is being created from the 'main' branch of this repository to the 'main' branch of the upstream repository. The pull request is titled 'andschar test' and was created 44 seconds ago. The commit hash is '053fb05' and there are 49 commits in total. Two blue arrows are drawn on the image: one points from the 'andschar test' text to the pull request icon, and the other points from the 'Pull request' text to the pull request icon.

andschar / MOD3
forked from njuvigny/MOD3

<> Code Pull requests Actions Projects Wiki Security Insights Settings

main 1 branch 0 tags Go to file Add file Code

This branch is 1 commit ahead of njuvigny:main.

Pull request Compare

andschar test 053fb05 44 seconds ago 49 commits

Task

- Fork Noel's repo
- Clone it to local machine
- Create a new branch named dev_YOURSURNAME
- Change the file XXX
- Commit the change (+ commit message) (in the new branch!)
- Push local changes to your repo
- Create a Pull Request against Noel's repo