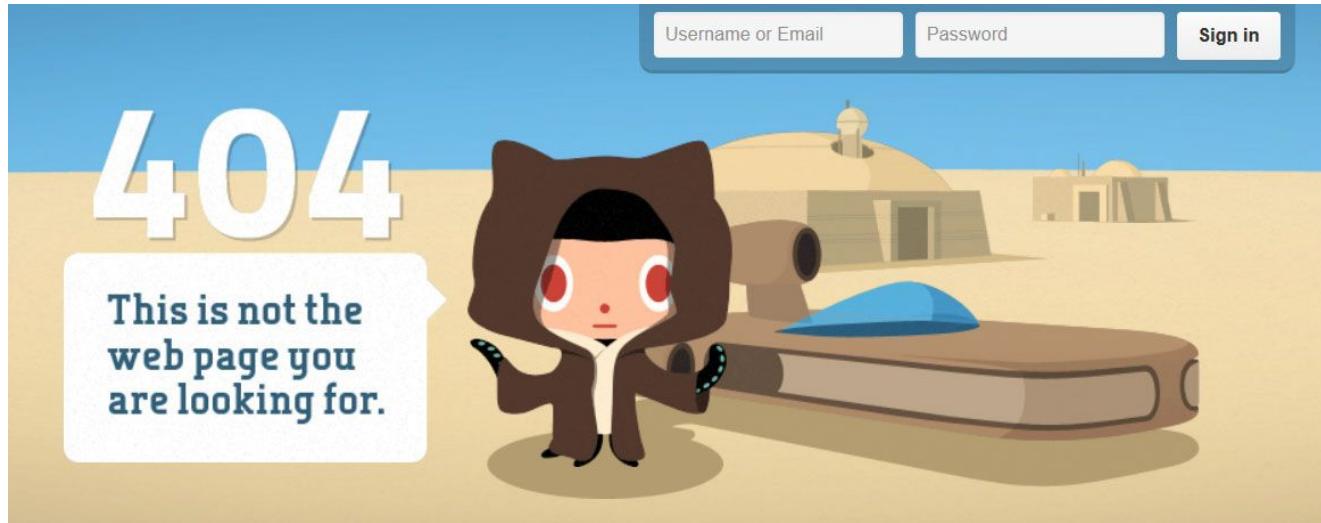


A brief introduction to *git* and *GitHub*



GitHub, what?

GitHub is a **web-based** service for hosting **version-controlled** software projects

The screenshot shows a GitHub organization profile for 'Natural History Museum Vienna'. The top navigation bar includes links for 'Search or jump to...', 'Pull requests', 'Issues', 'Marketplace', 'Explore', and a user icon. Below the header, the organization's logo (phm) and name are displayed, along with a location badge for 'Vienna' and a link to their website. A navigation bar below the header offers links to 'Overview', 'Repositories 19', 'Packages', 'People 26', 'Teams 1', 'Projects 2', and 'Settings'. The 'Overview' tab is selected. The main content area is titled 'Pinned' and features three repository cards: 'OpenAtlas' (Forked from crows/OpenAtlas), 'OpenLidarTools' (Forked from stefaneichert/OpenLidarToolbox), and 'thanados' (Forked from stefaneichert/thanados). To the right, there is a 'Customize your pins' section and a 'People' section showing a grid of user profiles. A 'View all' button and an 'Invite someone' button are also present.

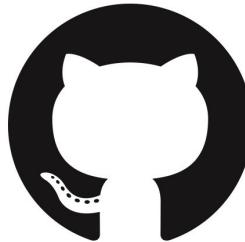
GitHub, why?

representation

digital science @ NHM

Publication
of new software

Dokumentation
of software-based projects



Tutorials
for (bio)informatics
workflows

Ticketing
for (bio)informatics
questions/requests

Repositories

Natural History Museum Vienna

Vienna <https://www.nhm-wien.ac.at/>

Overview Repositories 19 Packages People 26 Teams 1 Projects 2 Settings

Pinned

OpenAtlas Public Forked from craws/OpenAtlas

OpenAtlas is an open source, web based database system for complex archaeological, historical and geospatial data.

Python

OpenLidarTools Public Forked from stefaneichert/OpenLidarToolbox

Open LiDAR Tools is a QGIS Plugin for ALS Data by Stefan Eichert, Benjamin Štular and Edisa Ložić 2021

Python ⭐ 1

thanados Public Forked from stefaneichert/thanados

Presentation frontend for archaeological data from OpenAtlas databases

JavaScript

Customize your pins

People

View all

Invite someone

Repositories

Find a repository... Type Language Sort New

FirstSteps Private

This repository provides information for (1) new users of the NHM Github account and/or (2) new users of the PhyloServers.

Shell ⭐ 0 GPL-3.0 ⚡ 0 ⏺ 0 ⏴ 0 Updated now

Top languages

JavaScript Shell Python HTML

Repositories

Natural History Museum Vienna

Vienna <https://www.nhm-wien.ac.at/>

Overview Repositories 19 Packages People 26 Teams 1 Projects 2 Settings

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Shell ⭐ 0 GPL-3.0 ⚡ 0 ⏺ 0 ⏴ 0 Updated now

Top languages

JavaScript Shell Python HTML

Repos can be
either "private"
or "public"

The screenshot shows a GitHub repository page for 'nhmvienna/FirstSteps'. The repository is private, as indicated by the green border around the title bar. The main navigation bar includes links for Code, Issues, Pull requests, Actions, Projects, Security, Insights, and Settings.

The repository has 1 branch and 0 tags. The code history shows 268 commits from 'capoony' over the past 6 days. The commits are listed below:

Commit	Message	Date
ea44fd0	Update README.md	2 minutes ago
update	Bioinformatics	6 days ago
Add files via upload	Images	15 days ago
Update UNIXBasics.md	UNIXBasics	15 days ago
update	resources	4 months ago
jupdate	ATOMbasics.md	4 months ago
updatze	CodeOfConduct.md	4 months ago
update	Datamanagement.md	4 months ago
Update GitHubBasics.md	GitHubBasics.md	6 months ago
Create LICENSE	LICENSE	6 months ago
update	RBasics.md	4 months ago
Update README.md	README.md	2 minutes ago

The repository details section includes:

- About: This repository provides information for (1) new users of the NHM Github account and/or (2) new users of the PhyloServers.
- Readme
- GPL-3.0 License
- 0 stars
- 2 watching
- 0 forks

The releases section indicates "No releases published" and "Create a new release".

The packages section indicates "No packages published" and "Publish your first package".

The languages section shows a single bar for Shell at 100.0%.

The repository summary at the bottom states: "Welcome to the NHM Vienna! This repository provides information for new users of the NHM Github account and/or new users of our bioinformatics servers".

Repos can be
either "private"
or "public"

Repositories

The screenshot shows a GitHub repository page for 'nhmvienna/FirstSteps'. The repository is private. The main navigation bar includes 'Code', 'Issues', 'Pull requests', 'Actions', 'Projects', 'Security', 'Insights', and 'Settings'. The 'Code' tab is selected. The repository has 1 branch and 0 tags. The commit history shows updates to a 'Bioinformatics' folder and other files like README.md, LICENSE, and GitHubBasics.md. A callout box highlights the 'Project folder with all files' structure. The 'About' section describes the repository as providing information for new users of the NHM Github account and/or new users of the PhyloServers. It includes links to 'Readme', 'GPL-3.0 License', '0 stars', '2 watching', and '0 forks'. The 'Releases' section indicates no releases have been published. The 'Packages' section also indicates no packages have been published. The 'Languages' section shows a single file named 'Shell' at 100.0%.

nhmvienna / FirstSteps · Private

<> Code Issues Pull requests Actions Projects Security Insights Settings

main · 1 branch · 0 tags

Go to file Add file · Code

capoony Update README.md ea44fd0 2 minutes ago 268 commits

Bioinformatics update 6 days ago

Images Add files via upload 15 days ago

UNIXBasics Update UNIXBasics.md 15 days ago

resources update 4 months ago

ATOMbasics.md jupdate 4 months ago

CodeOfConduct.md update 4 months ago

Datamanagement.md update 4 months ago

GitHubBasics.md Update GitHubBasics.md 6 months ago

LICENSE Create LICENSE 6 months ago

RBasics.md update 4 months ago

README.md Update README.md 2 minutes ago

Project folder with all files

About

This repository provides information for (1) new users of the NHM Github account and/or (2) new users of the PhyloServers.

Readme · GPL-3.0 License · 0 stars · 2 watching · 0 forks

Releases

No releases published · Create a new release

Packages

No packages published · Publish your first package

Languages

Shell 100.0%

FirstSteps

✨ Welcome to the NHM Vienna! ✨ This repository provides information for new users of the NHM Github account and/or new users of our bioinformatics servers

Repos can be either "private" or "public"

Repositories

The screenshot shows a GitHub repository page for 'nhmvienna/FirstSteps'. The repository is private. The main interface includes a navigation bar with 'Code' (selected), 'Issues', 'Pull requests', 'Actions', 'Projects', 'Security', 'Insights', and 'Settings'. Below the navigation is a summary bar showing 'main' branch, '1 branch', '0 tags', and a green 'Code' button. The left sidebar shows a 'Project folder with all files' containing 'Bioinformatics', 'Images', 'UNIXBasics', and 'resources' folders, along with 'ATOMbasics.md', 'CodeOfConduct.md', 'Datamanagement.md', 'GitHubBasics.md', 'LICENSE', 'RBasics.md', and 'README.md'. A large black box highlights this sidebar area. The right sidebar shows an 'About' section with a commit history for 'ea44fd0' (2 minutes ago) and a total of 268 commits, with the last commit being 'Update README.md' 2 minutes ago. A blue box highlights this commit history area. The bottom right sidebar includes sections for 'Releases' (no releases published), 'Packages' (no packages published), and 'Languages' (Shell 100.0%). A large text box on the right side contains the text: 'Total number of changes (commits) and date of last change'.

Project folder with all files

nhmvienna / FirstSteps · Private

<> Code Issues Pull requests Actions Projects Security Insights Settings

main 1 branch 0 tags Go to file Add file Code

capoony Update README.md

Bioinformatics
Images
UNIXBasics
resources
ATOMbasics.md
CodeOfConduct.md
Datamanagement.md
GitHubBasics.md
LICENSE
RBasics.md
README.md

update
Add files via upload
Update UNIXBasics.md
update
jupdate
updatze
update
Update GitHubBasics.md
Create LICENSE
update
Update README.md

6 days ago
15 days ago
15 days ago
4 months ago
4 months ago
4 months ago
4 months ago
6 months ago
6 months ago
4 months ago
2 minutes ago

ea44fd0 2 minutes ago 268 commits

About

This repository provides information

Total number of changes (commits) and date of last change

Releases

No releases published Create a new release

Packages

No packages published Publish your first package

Languages

Shell 100.0%

FirstSteps

⚡ Welcome to the NHM Vienna! ⚡ This repository provides information for new users of the NHM Github account and/or new users of our bioinformatics servers

Repositories

nhmvienna / FirstSteps Private

Code Issues Pull requests Actions Projects Security Insights Settings

main 1 branch 0 tags Go to file Add file Code

capoony	Update README.md	ea44fd0 2 minutes ago	268 commits
Bioinformatics	update	6 days ago	
Images	Add files via upload	15 days ago	
UNIXBasics	Update UNIXBasics.md	15 days ago	
resources	update	4 months ago	
ATOMbasics.md	jupdate	4 months ago	
CodeOfConduct.md	updatze	4 months ago	
Datamanagement.md	update	4 months ago	
GitHubBasics.md	Update GitHubBasics.md	6 months ago	
LICENSE	Create LICENSE	6 months ago	
RBasics.md	update	4 months ago	
README.md	Update README.md	2 minutes ago	
README.md			

About

This repository provides information for (1) new users of the NHM Github account and/or (2) new users of the PhyloServers.

Readme GPL-3.0 License 0 stars 2 watching 0 forks

Releases

No releases published Create a new release

Packages

No packages published Publish your first package

Languages

Shell 100.0%

README .md
describing the
content of the
repo in
“markdown”
format

FirstSteps

✨ Welcome to the NHM Vienna! ✨ This repository provides information for new users of the NHM Github account and/or new users of our bioinformatics servers

README.md

Project

- FirstSteps
 - .git
 - Bioinformatics
 - Images
 - resources
 - UNIXBasics
- ATOMbasics.md
- CodeOfConduct
- Datamanageme
- GitHubBasics.n
- LICENSE
- RBasics.md

README.md

```
1 # FirstSteps
2
3 ## :sparkles: Welcome to the NHM Vienna! :sparkles: This repository provides information
* for new users of the **NHM Github account** and/or new users of our bioinformatics
* servers.
4
5 ### This page will give you a headstart on working with (bio)informatic resources and
* services at the NHM and will get you familiar with the workflows and tools we use.
* Please take your time and read the following documents carefully:
6
7 ### General topics
8
9 - [x] [Code of Conduct](CodeOfConduct.md)
10 - [x] [Github basics](GitHubBasics.md)
11
12 -----
13
14 ### [Bioinformatics](/Bioinformatics/)
15
16 - [x] **[Frequently Asked Questions (FAQ)](/Bioinformatics/FAQ.md)**
17 - [x] **[List of Installed Software](/Bioinformatics/SoftwareList.md)**
18 - [x] [Phyloserver Tutorial](/Bioinformatics/Phyloserver.md)
19 - [x] [UNIX basics](/UNIXBasics/UNIXBasics.md)
20 - [x] [Data Management](Datamanagement.md)
21 - [x] [Atom Basics](ATOMBasics.md)
22 - [x] [R basics](/UNIXBasics/RBasics.md)
23 - [x] [OpenPBS Tutorial](/Bioinformatics/OpenPBS.md)
24 - [x] [Ask for help with Bioinformatics](https://github.com/nhmvienna/
* BioinformaticsService)
25 - [x] [The secret of infinite loops](/Bioinformatics/InfiniteLoop.md)
26
27 -----
28 ### Bioinformatics Workshops
29
30 - [x] [(1) Bioinformatics introductory course](https://github.com/nhmvienna/
* Workshop_I_Intro_to_Phylotools)
31 - [x] [(2) MinION-based metabarcoding](https://github.com/nhmvienna/
* Workshop_II_MinION_barcode)
```

Raw Code

README.md Preview

FirstSteps

Welcome to the NHM Vienna! This repository provides information for new users of the **NHM Github account** and/or new users of our bioinformatics servers.

This page will give you a headstart on working with (bio)informatic resources and services at the NHM and will get you familiar with the workflows and tools we use. Please take your time and read the following documents carefully:

General topics

- Code of Conduct
- Github basics

Bioinformatics

- Frequently Asked Questions (FAQ)
- List of Installed Software
- Phyloserver Tutorial
- UNIX basics
- Data Management
- Atom Basics
- R basics
- OpenPBS Tutorial
- Ask for help with Bioinformatics
- The secret of infinite loops

Bioinformatics Workshops

- (1) Bioinformatics introductory course
- (2) MinION-based metabarcoding

Rendered Code

Markdown

Content Element	Syntax	What it Looks Like
A  Heading	# H1 ## H2 ### H3	# This is an H1 ## This is an H2 ### This is an H3
B  Bold	**bold text**	This what makes text look bold in a sentence
I  Italic	*italicized text*	and this is how to make <i>italics</i> in text
 Blockquote	>blockquote	You can block quote a piece of text with the <i>greater than</i> symbol
 Orderd List	1. First item 2. Second item 3. Third item	And if you want to create a numbered or ordered list, </i> in HTML, just add the number followed by a full stop. 1. First item in the list 2. Second item in the list 3. Third item

<https://www.collective-ray.com/de/Markdown-Spickzettel>

Markdown

Content Element	Syntax	What it Looks Like
 Unordered List	- First item - Second item - Third item	while the unordered list equivalent is created with only a dash - like so: - this list - is not ordered - at all
 Code	`code`	And if you're showing a code highlight, it's done through the backquote or \\this code does nothing except comment
 Horizontal Rule	and once you're done you can use---to create a horizontal rule like so	and once you're done you can use – to create a horizontal rule like so
 Link	[Markdown Cheat Sheet] (http://www.collectiveray.com/markdown-cheat-sheet)	If you want to display a link, use [square brackets] followed by (brackets) like this: <u>Markdown Cheat sheet</u>
 Image	![alt text](image.jpg)	Finally, an image is a punctuation mark ![followed by square brackets for the alt text] (and-brackets-for-the-filename.jpg)

<https://www.collectiveray.com/deMarkdown-Spickzettel>

Licences

Permissive



stefaneichert/thanados is licensed under the

MIT License

A short and simple permissive license with conditions only requiring preservation of copyright and license notices. Licensed works, modifications, and larger works may be distributed under different terms and without source code.

Permissions

- ✓ Commercial use
- ✓ Modification
- ✓ Distribution
- ✓ Private use

Limitations

- ✗ Liability
- ✗ Warranty

Conditions

- ⓘ License and copyright notice

This is not legal advice. [Learn more about repository licenses](#).

Non Permissive (copyleft)



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Permissions

- ✓ Commercial use
- ✓ Modification
- ✓ Distribution
- ✓ Patent use
- ✓ Private use

Limitations

- ✗ Liability
- ✗ Warranty

Conditions

- ⓘ License and copyright notice
- ⓘ State changes
- ⓘ Disclose source
- ⓘ Same license

This is not legal advice. [Learn more about repository licenses](#).

NHM GitHub account

- First established by Stefan Eichert
- User account -> Organization account
- **Simple website to find your way around**
- **Open for every user at the NHM**
- Users can **work together** and be organized in **teams**
- Project repositories can be either **private or public**

<https://GitHub.com/nhmvienna>

Applications

1. Webpage
2. Documentation of Software Projects
3. Research documentation
4. Technical documentation
5. Tutorials
6. Ticketing

(1) Webpage

- A **full-grown** (but still drafty) **HTML-based website**
- Provides an **overview of the content** on the GitHub page
- **Easy entry** to most important and representative software projects
- **Schedule of seminar series**
- *Any further ideas are very welcome!*

<https://nhmvienna.GitHub.io/>

(2) Software projects

- Publish **software projects online**
- **Transparent history and versioning**
- **Collaborative coding and debugging**
- **Issue tracking**
- **Detailed documentation**

<https://GitHub.com/nhmvienna/thanados>

(3) Research documentation

- Repositories to collaborate on (ongoing) **research projects**
- **Invite collaborators**
- Backup **analysis pipelines** and **custom software**
- Store (lightweight) **result tables/figures**
- **Transparent history**
- Use README.md for documentation

<https://GitHub.com/capoony/EchinoUCE>

(4) Technical documentation

- Collected **installation documentation**
- **Useful if re-installation** is needed
- Useful to **trace bugs and problems**
- Repository is **private!**
- **No passwords** in shell scripts (.gitignore)!

<https://GitHub.com/nhmvienna/PhyloserverInstallationDocs>

(5) Tutorials

- Using **markdown format** for wiki-style tutorials
- **Structured by topic** on separate webpages
- **FAQ** section
- **Interactive** by including **test datasets**
- **Communication via issues**

<https://GitHub.com/nhmvienna/FirstSteps>

(6) Ticketing

- **Transparent communication**
- **Searchable history**
- Facilitates **planning**
- Facilitates **checking status** of issue
 - software installation requests
 - Bug report

<https://GitHub.com/nhmvienna/BioinformaticsService>

GitHub, how?

GitHub ist a **web-based** service for hosting **version-controlled** software projects building upon git.



It is a service

It is hosted on Web

It is a space to upload a copy of the Git repository

It provides a graphical interface



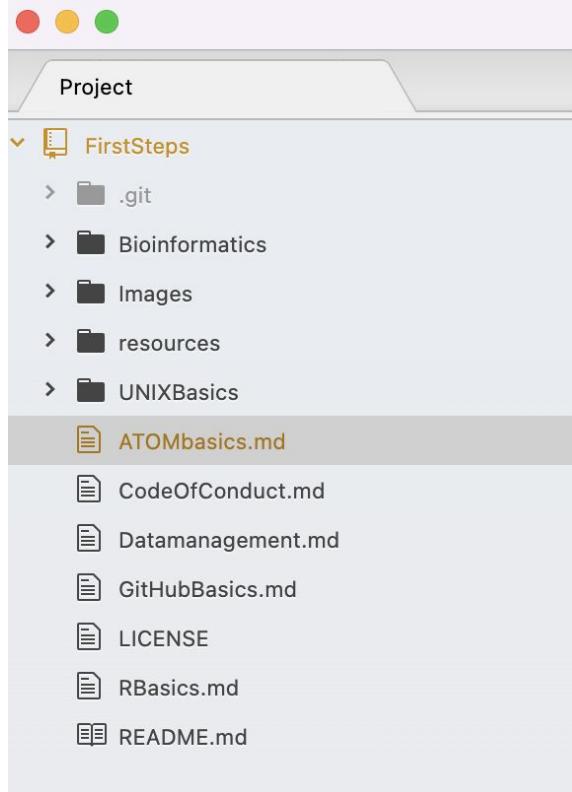
It is a software

It is installed locally on the system

It is a tool to manage different versions of edits, made to files in a git repository

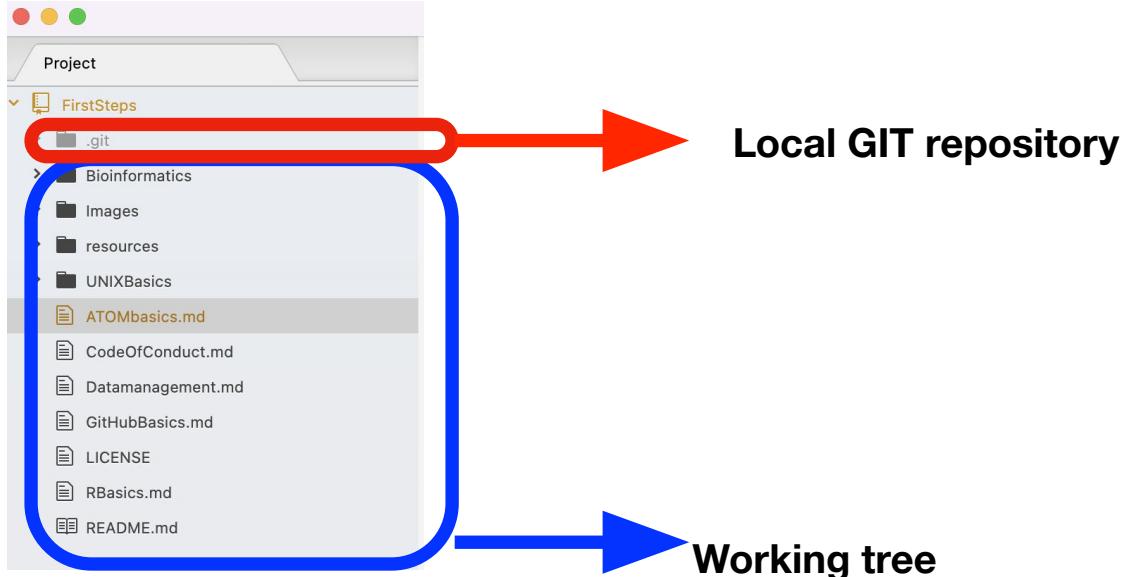
It is a command-line tool

The basics of git



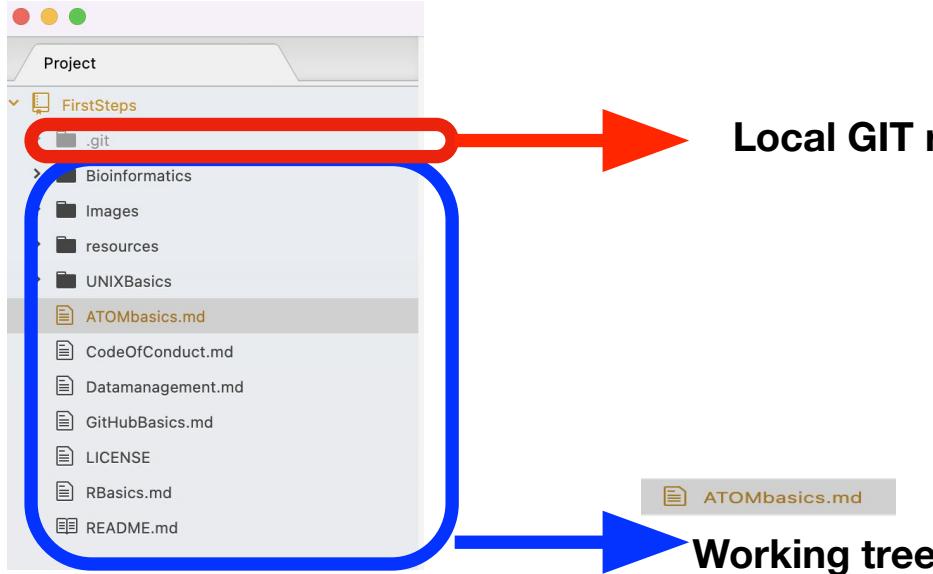
The basics of git

If a folder is under version control, the folder `.git/` represents the **local repository (database)** and the other files/folders are **the working tree**



The basics of git

A modified file is **not automatically under version control** and a follow-up modification replaces the previous changes.

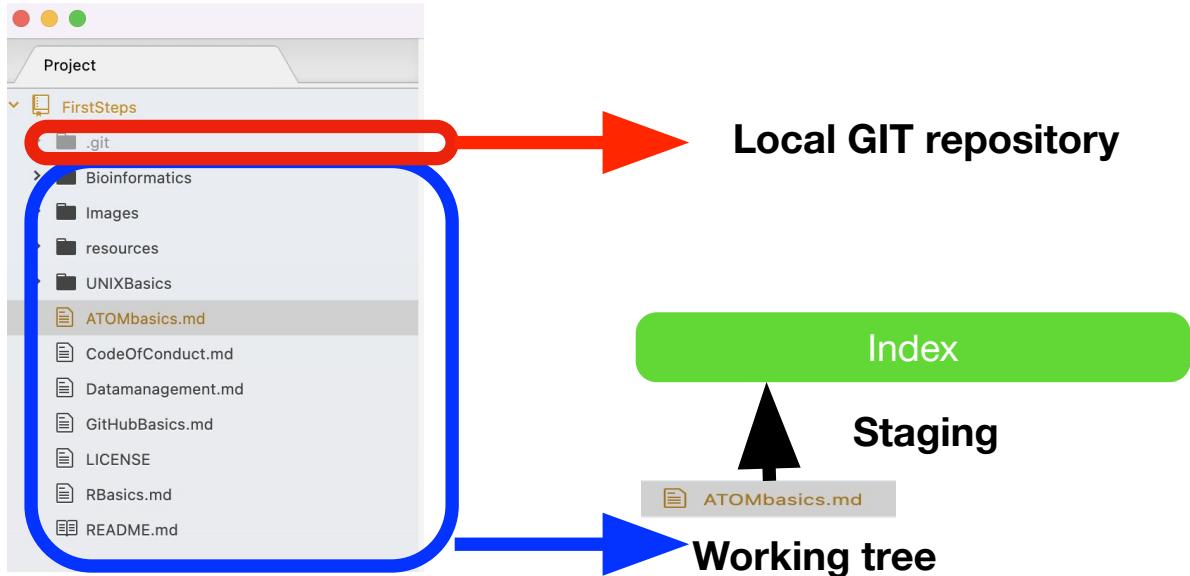


Local GIT repository

Working tree

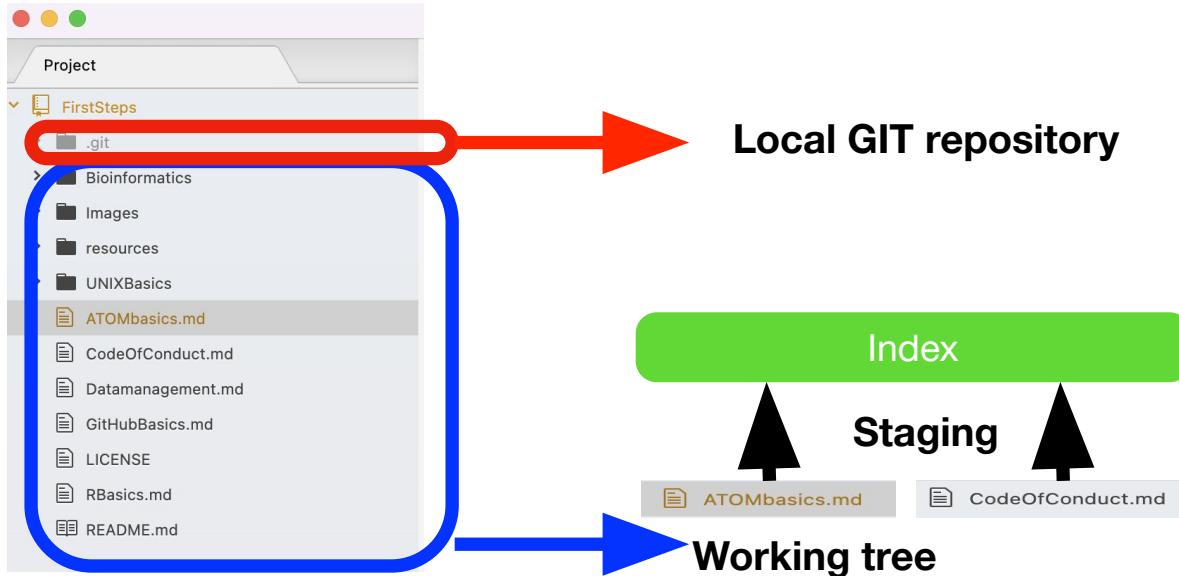
The basics of git

However, a **modified file can be “staged”**, which means, you **add an index** to tell git to prepare the modified file for **storing the current version**.



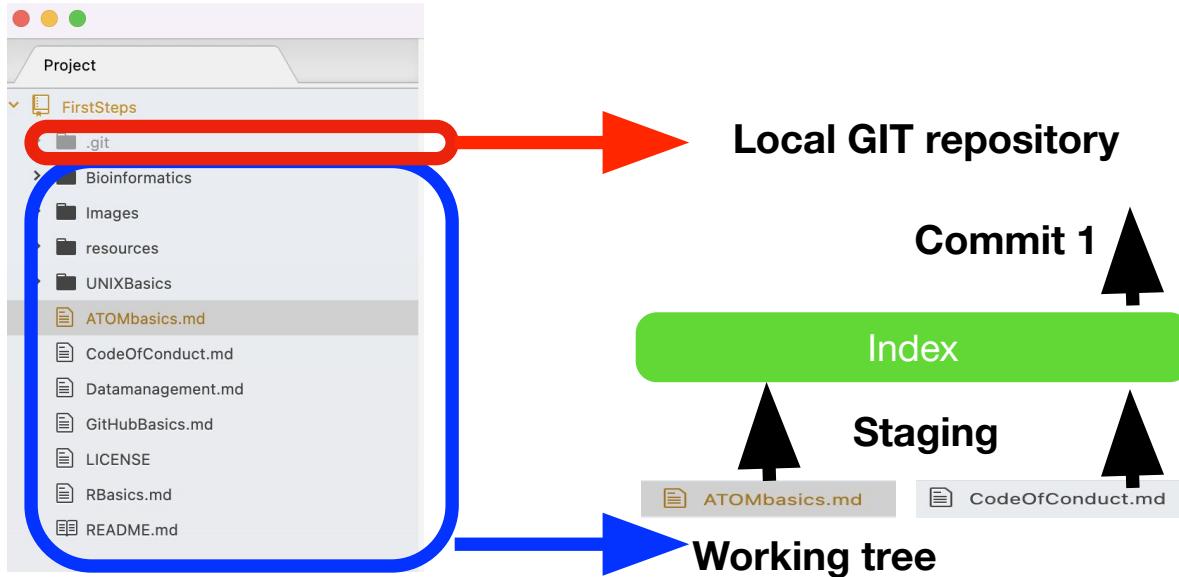
The basics of git

This can be **repeated** for multiple modified files.



The basics of git

Once these **indexed changes** are “**committed**” a snapshot of **incremental changes** at a given time-point are stored in the local repository.



The basics of git

Incremental means, that **only the differences to the previous version, or the first copy of a new file** are stored.

update

main

capoony committed on 17 Oct 2021

1 parent 9a10cb6 commit 63416a5fde7a8d0d90bb4235af649f09b1ca08c6

Showing 1 changed file with 55 additions and 5 deletions.

ATOMbasics.md

@@ -26,28 +26,78 @@ On our server, this is already done and you can directly launch Atom either dire

26	26
27	27
28	28
29	29
30	30
31	31
32	32
33	33

![(<https://linuxhint.com/wp-content/uploads/2020/03/5-45.png>)](<https://linuxhint.com/wp-content/uploads/2020/03/5-45.png>)

- ### A guide to install packages on Atom Editor

- As we have discussed, Atom editor is famous for its ability to be tailored to user's requirement. To do that, follow the given steps. Click on the 'Edit' button in the menu bar and navigate to preference

Once you have Atom installed, there several options to adjust the appearance of the Editor window. Of course, this is individual taste, but I prefer a light theme because I feel that it improves the readability of text. You can

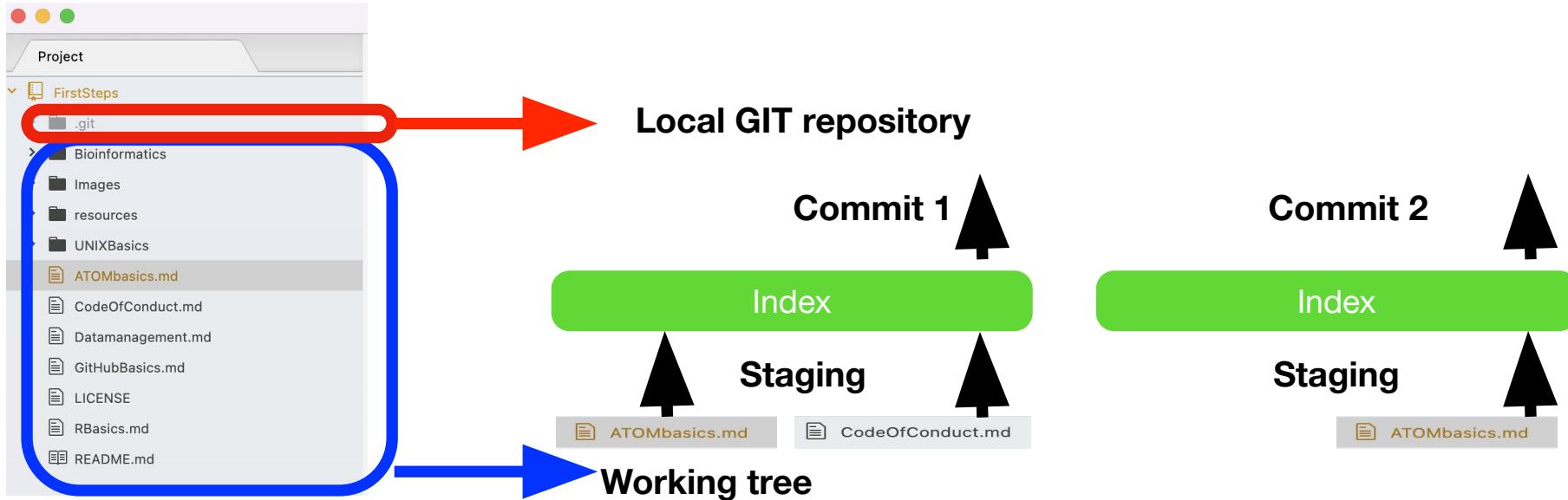
As we have discussed, Atom editor is famous for its ability to be tailored to user's requirement. To do that, follow the given steps. Click on the 'Edit' button in the menu bar and navigate to preferences

![(<https://linuxhint.com/wp-content/uploads/2020/03/6-42.png>)](<https://linuxhint.com/wp-content/uploads/2020/03/6-42.png>)

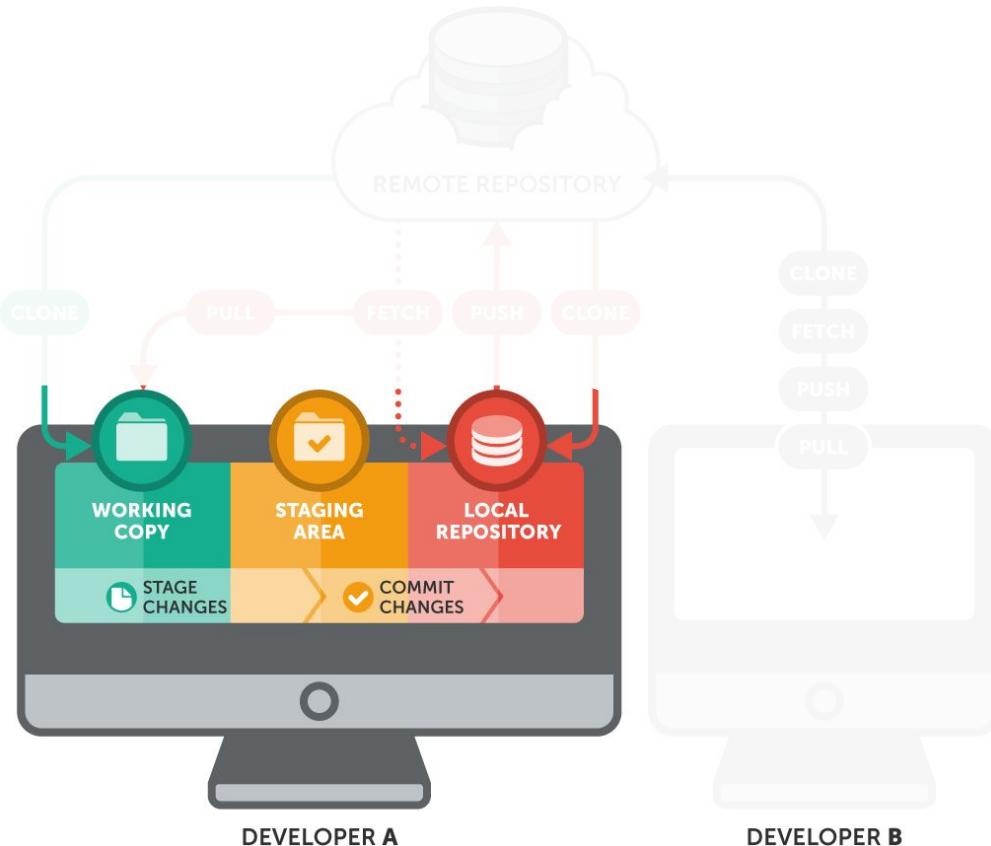
Split Unified

The basics of git

Every new commit generates a new snapshot and can be traced back.



The basics of git

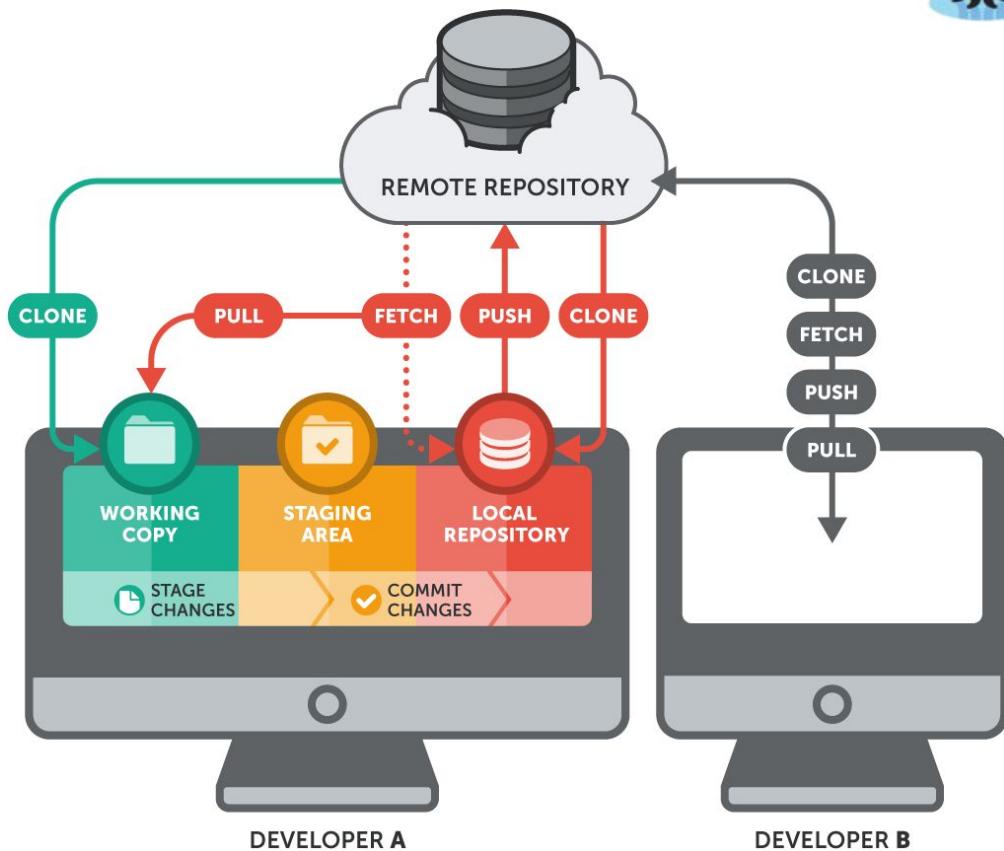


Reminder

Stores a local repository within your working folder

Allows to keep snapshots of different file versions

...so what is GitHub ?



GitHub

Is hosting **remote repositories** on the web

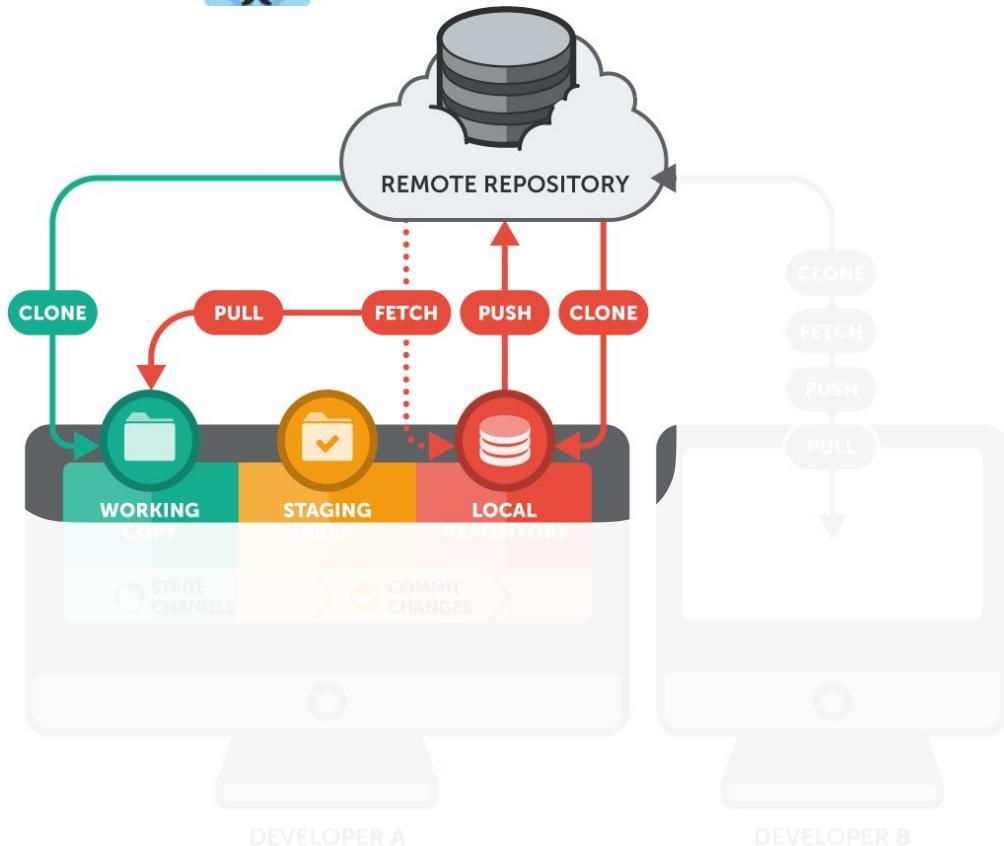
Provides a **graphical interface**

Allows to **interact and collaborate** directly on the website

Allows to **host your own website or wiki-page**



GitHub semantics



GitHub lingo

Meaning

Clone (Fork)

Download a linked (independent) copy of a GitHub repository

Pull (Fetch + Merge)

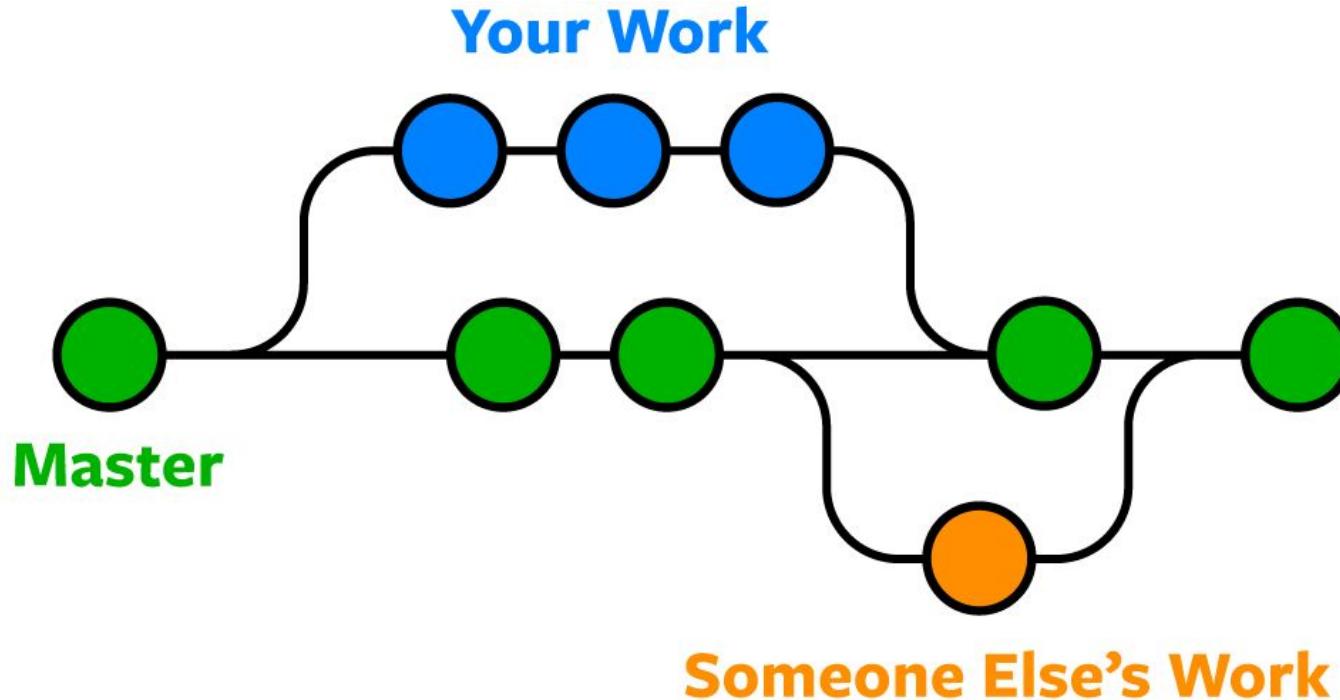
Download remote (meta info + actual changes) updates to your local repository

Push

Upload local updates to the remote repository

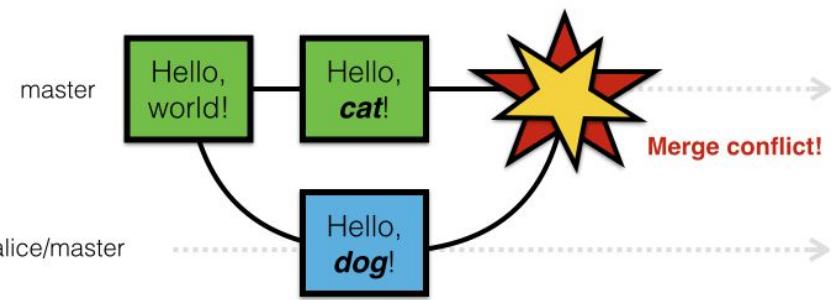


GitHub branches





GitHub pull requests



```
42 50      {%- endwith %}
43 51    </div>
44 52  </div>
45 53 +<<<< destination:14f036cdef7ca48a1a2d020eac9e64f1a3b06d77
46 54
47 55      {%- file_contents request file file_url %}
48 +=====
49 56      +  <div class="bb-content-container-body file-source has-header">
50 57      +    {{ file|highlight:kitteh }}
51 58      +  </div>
52 59 +>>>> source:6f895ead241ef24be80c22f4a47b1f112eaf99bc
53 60
54 61      </div>
55 62  {%- endfor %}
56 63
```



<https://tenor.com/view/git-merge-gitmerge-gif-18010083>

.gitignore

For software development projects (and beyond):

Exclude files and folders from being uploaded to GitHub

Passwords, usernames, config specs, created files, cache

.gitignore

Example based on the THANADOS Project

THANADOS

<https://GitHub.com/stefaneichert/thanados/blob/main/.gitignore>

Exercises

1. Create your first repository
2. Download and modify the repo with GitHub Desktop
3. Publish a repo with ATOM on Linux

(1) create your first repository

1. Create your first repository (My1stRepo, etc.)
2. Add a licence file (<https://choosealicense.com/licenses/>)
3. Create a README.md file and add a short description
4. Create a new text file in a folder
5. Add an image to the new folder
6. Create a new branch and make edits to your README.md
7. Merge your new branch with the main branch
8. Invite a collaborator

GitHub Desktop

<https://desktop.GitHub.com/>



The screenshot shows the GitHub Desktop landing page. At the top center is the GitHub logo (a white cat icon inside a purple octocat shape). Below it are three navigation links: "Overview", "Release Notes", and "Help". The main title "GitHub Desktop" is centered below the logo. A subtitle below the title reads: "Focus on what matters instead of fighting with Git. Whether you're new to Git or a seasoned user, GitHub Desktop simplifies your development workflow." To the right of the text is a stylized globe graphic with a speech bubble containing a heart icon. At the bottom center is a large purple button with the text "Download for Windows (64bit)". Below this button, smaller text provides download links for "macOS" and "Windows (msi)" and includes a note about agreeing to the "Open Source Applications Terms". A small circular icon with a question mark is located in the bottom left corner.

Overview Release Notes Help

GitHub Desktop

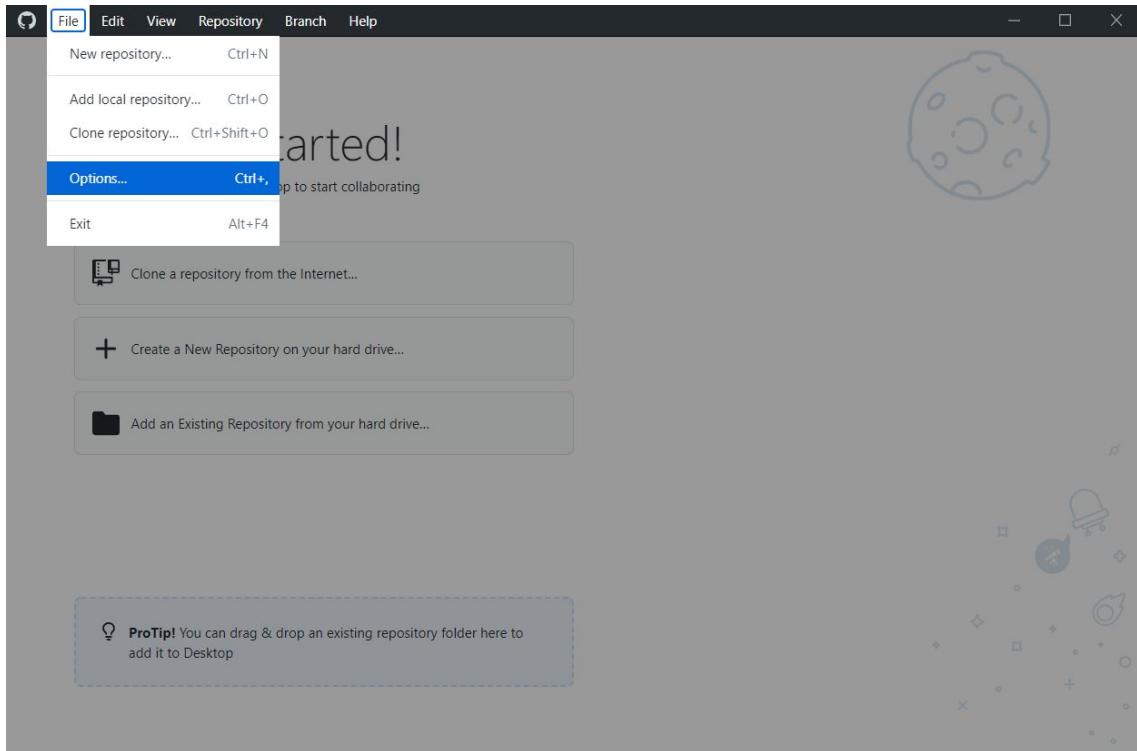
Focus on what matters instead of fighting with Git. Whether you're new to Git or a seasoned user, GitHub Desktop simplifies your development workflow.

Download for Windows (64bit)

Download for macOS or Windows (msi)
By downloading, you agree to the [Open Source Applications Terms](#).

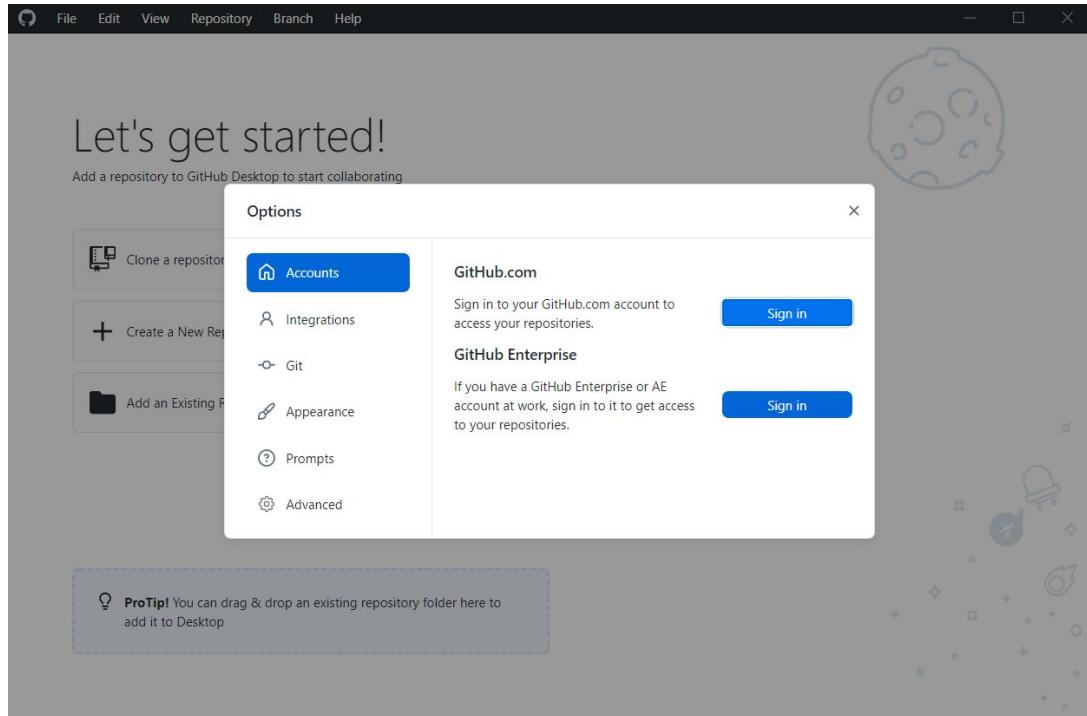
GitHub Desktop

Choose File >
Option... to log in
to your account



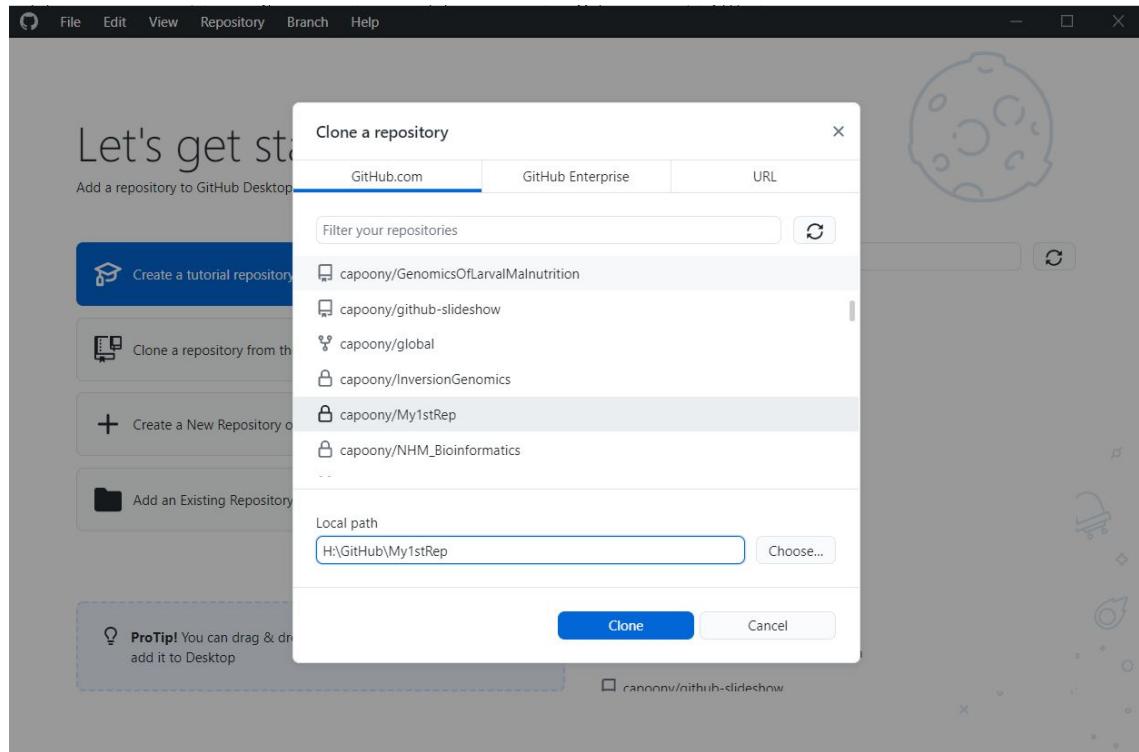
GitHub Desktop

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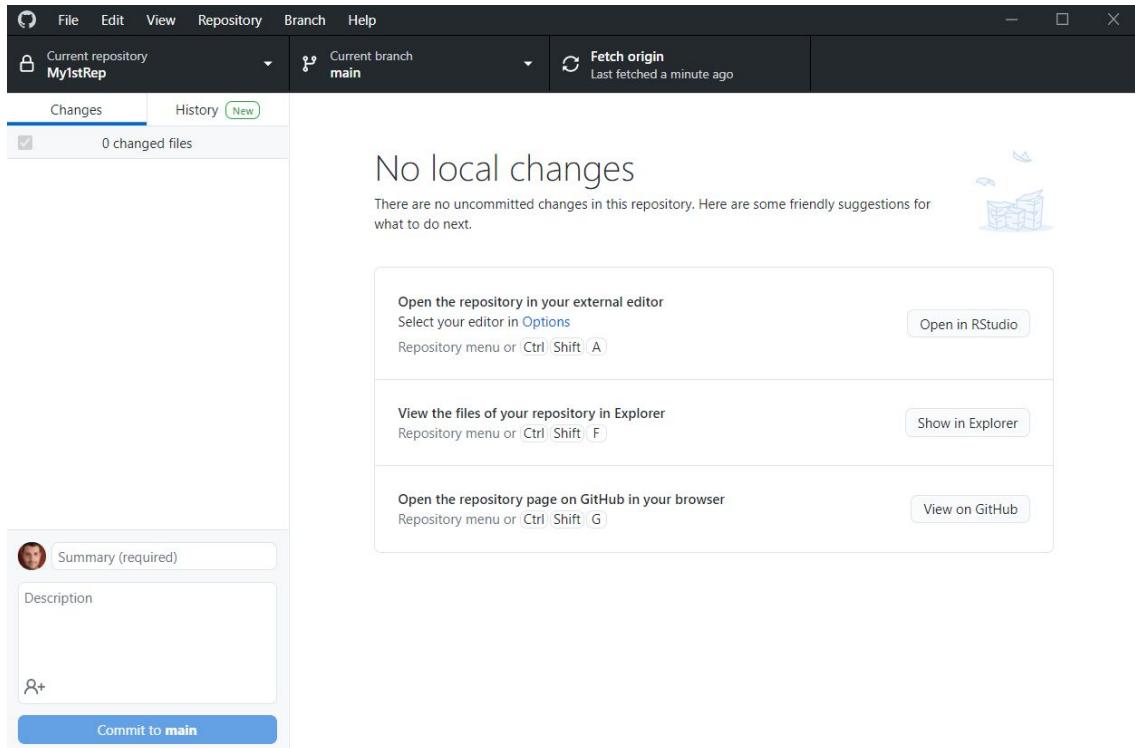
GitHub Desktop

- Once successfully logged in, GitHub Desktop will list all your repositories.
- Pick your previously created 1st repository
- Choose the path to where you want to put the files on your computer



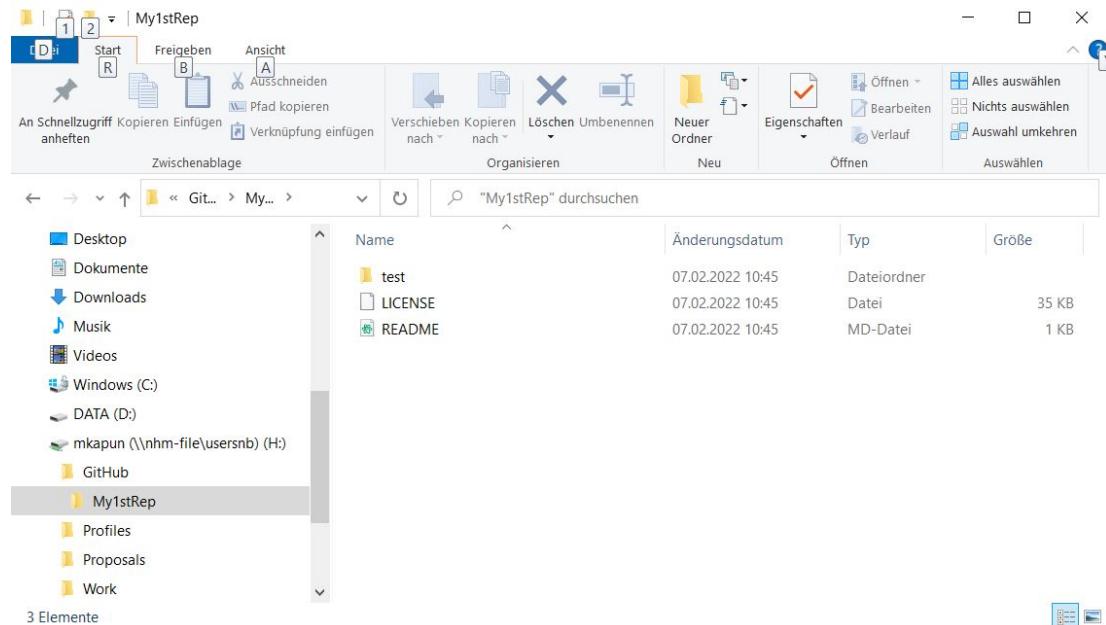
GitHub Desktop

- The overview window shows that there are no current changes to “My1stRep”
- Now click “Show in Explorer”



GitHub Desktop

- This will show all the files that GitHub Desktop copied
- Double click on README and open with the Editor program.



GitHub Desktop

- Now you can edit the text and, for example, try some markdown codes
- Then save your changes and go back to GitHub Desktop



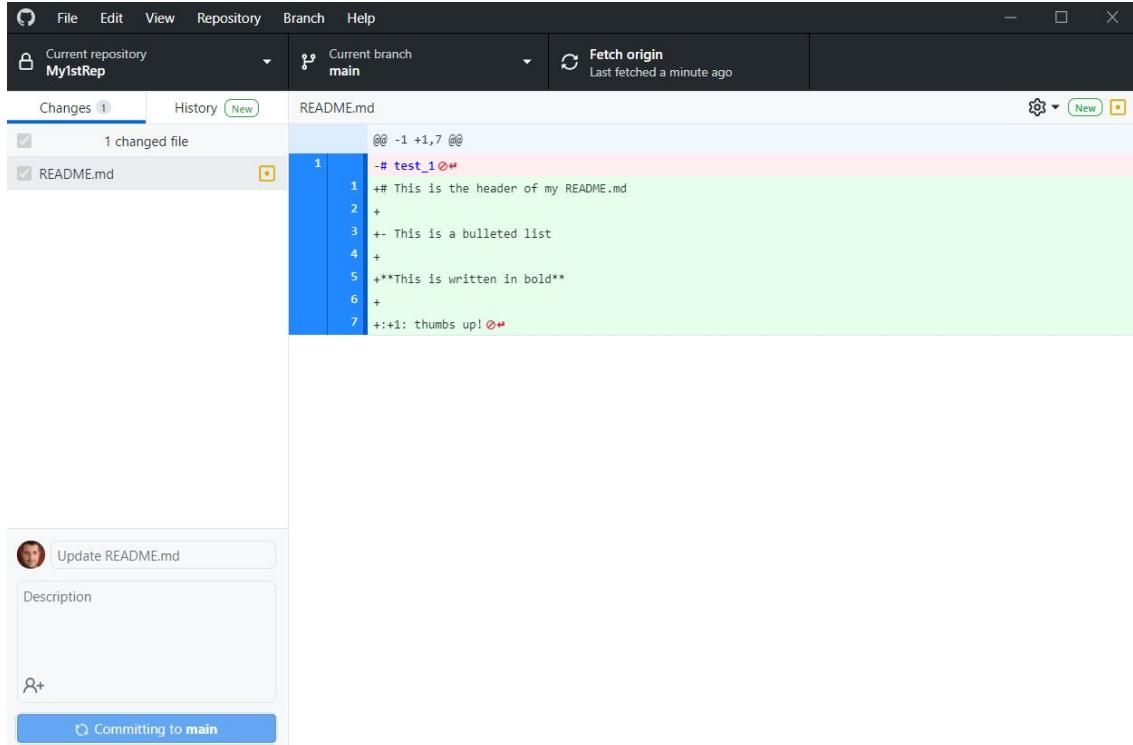
The screenshot shows a Windows-style application window titled '*README - Editor'. The menu bar includes 'Datei', 'Bearbeiten', 'Format', 'Ansicht', and 'Hilfe'. The main text area contains the following Markdown content:

```
# This is the header of my README.md
- This is a bulleted list
**This is written in bold**
:+1: thumbs up!
```

The status bar at the bottom right displays 'Zeile 7, Spalte 16', '100%', 'Windows (CRLF)', and 'UTF-8'.

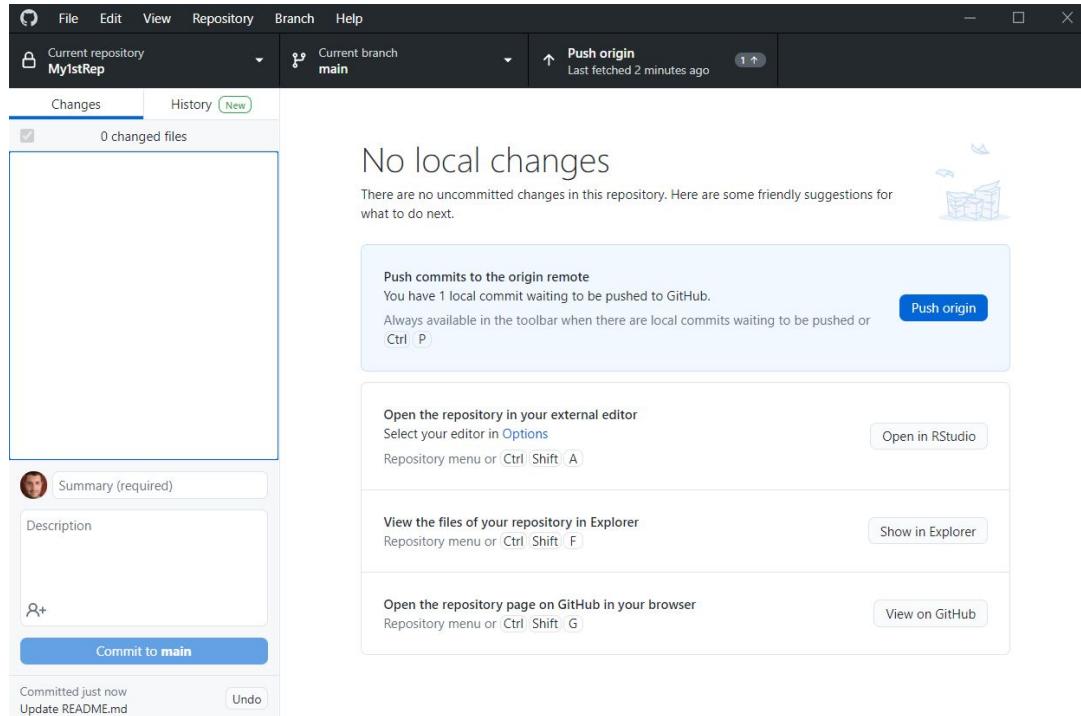
GitHub Desktop

- GitHub Desktop shows that README.md was modified and highlights the changes in the right-hand panel
- In the bottom left, you can now add a description and commit the changes



GitHub Desktop

- Once the local changes are committed, you also need to upload these to GitHub.
- Press “Push origin” on the right hand side.



GitHub Desktop

capoony / My1stRep Private

Unwatch 1 ▾ Fork 0 Star 0 ▾

Code Issues Pull requests Actions Projects Security Insights Settings

main 1 branch 0 tags Go to file Add file ▾ Code ▾

capoony Update README.md 590ec6f 1 minute ago 6 commits

test Add files via upload 32 minutes ago

LICENSE Initial commit 40 minutes ago

README.md Update README.md 1 minute ago

README.md

This is the header of my README.md

• This is a bulleted list

This is written in bold

👍 thumbs up!

About

No description, website, or topics provided.

Readme

GPL-3.0 License

0 stars

1 watching

0 forks

Releases

No releases published

Create a new release

Packages

No packages published

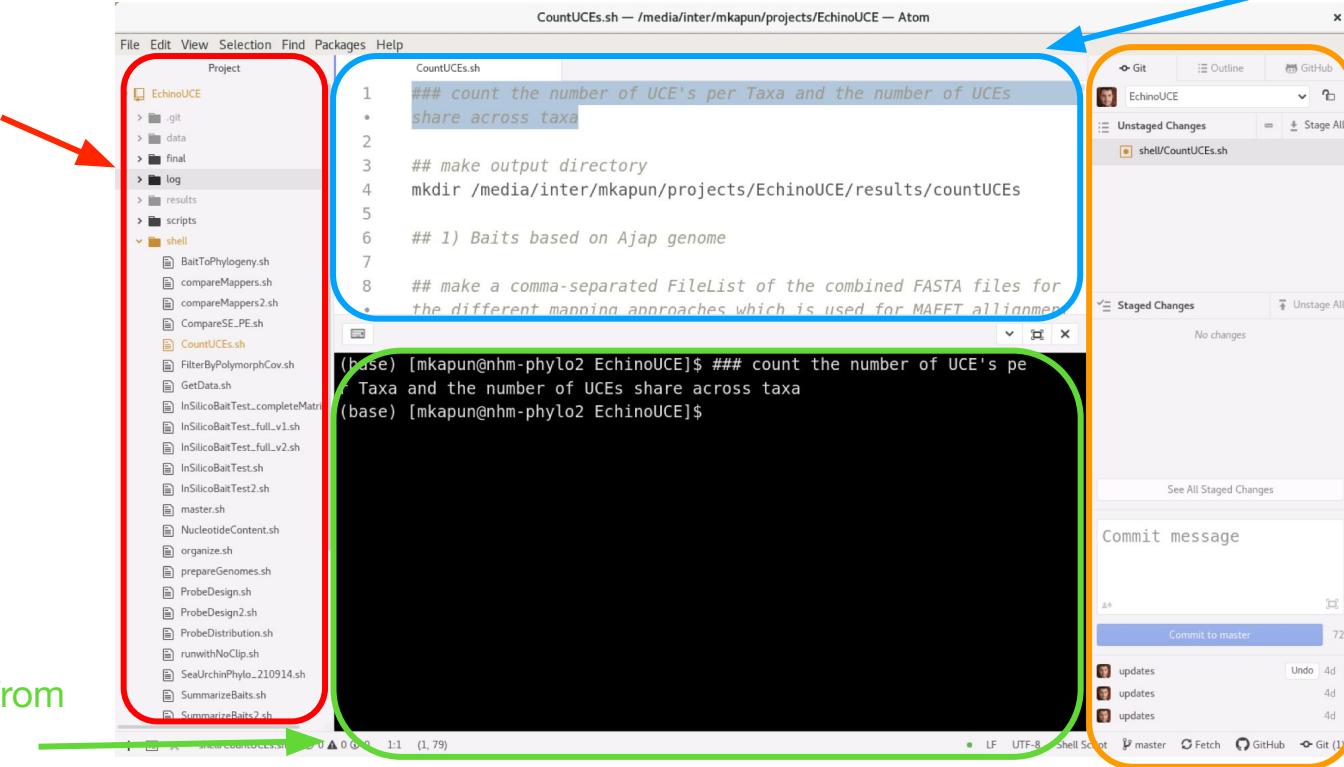
Publish your first package

(2) download and modify with GitHub Desktop

1. Install and login to GitHub Desktop
2. Clone your new repository to your computer
3. Modify the README.md file with the Text-editor using markdown
4. Commit your changes and push to the remote GitHub server

GitHub and ATOM

Project
Folder
Viewer



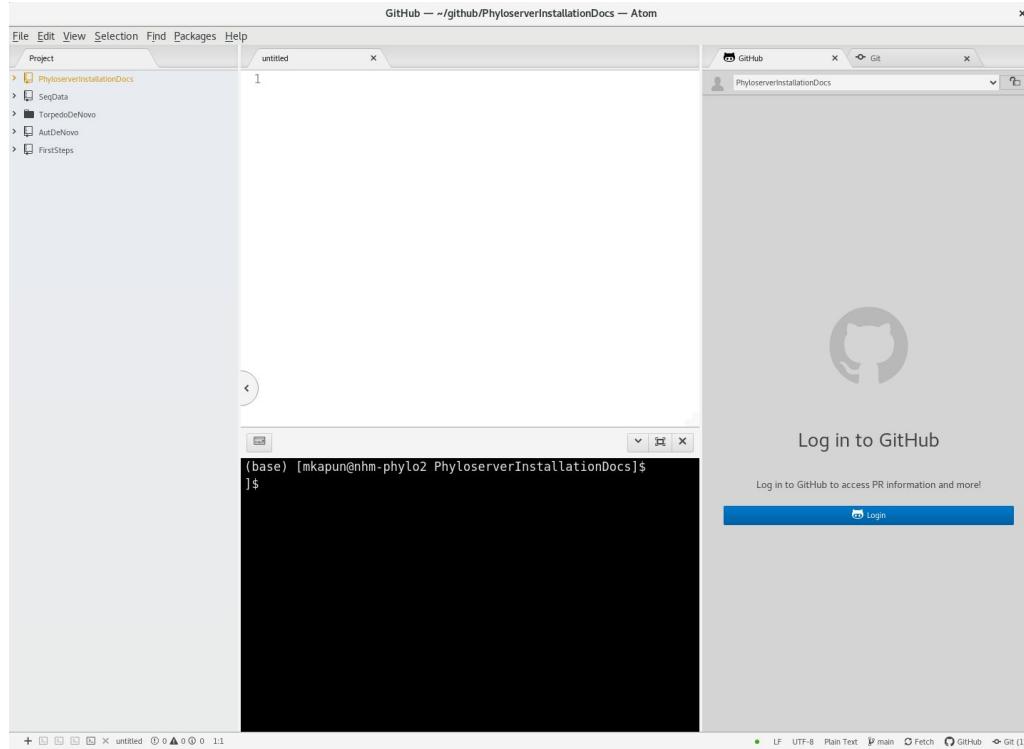
Text Editor

GitHub
Interface

Terminal
Window to
execute
commands from
Text editor

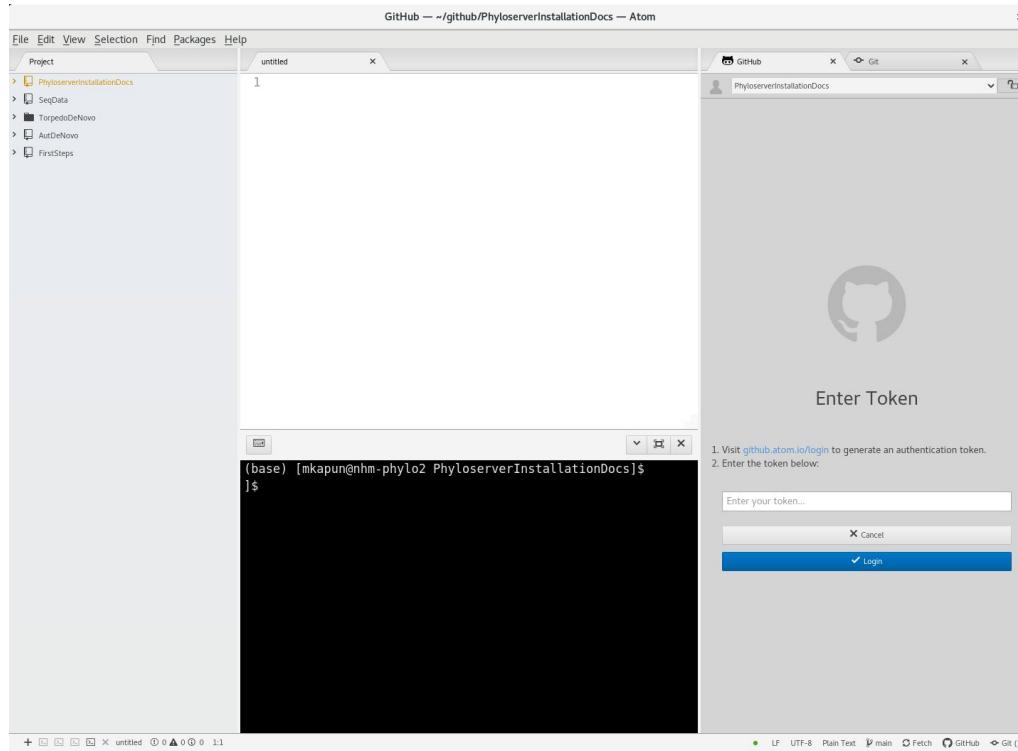
a) Setting up GitHub account

- Find login field on GitHub tab on the right of the Atom window



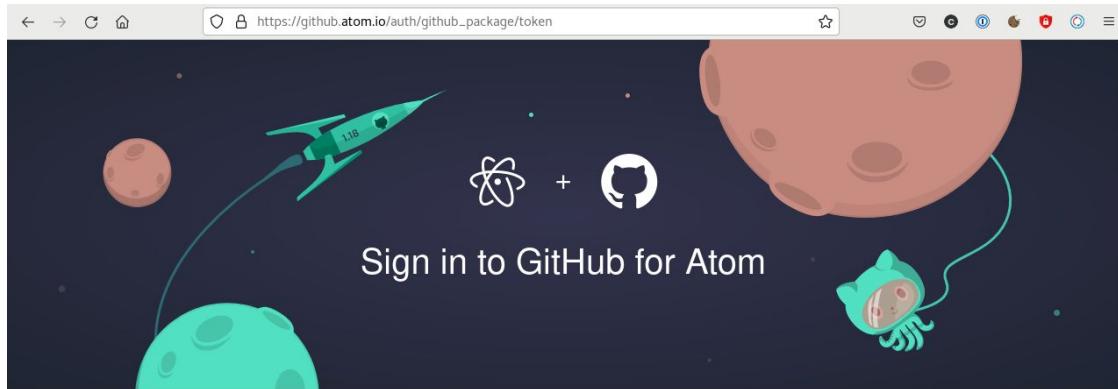
a) Setting up GitHub account

- Get your token by logging into your browser under <https://GitHub.atom.io/> login



a) Setting up GitHub account

- Copy token and paste into empty field in Atom



Your GitHub token

Copy token

To finish signing in, copy your token and paste it into the sign-in form in Atom.

b) Clone a repository

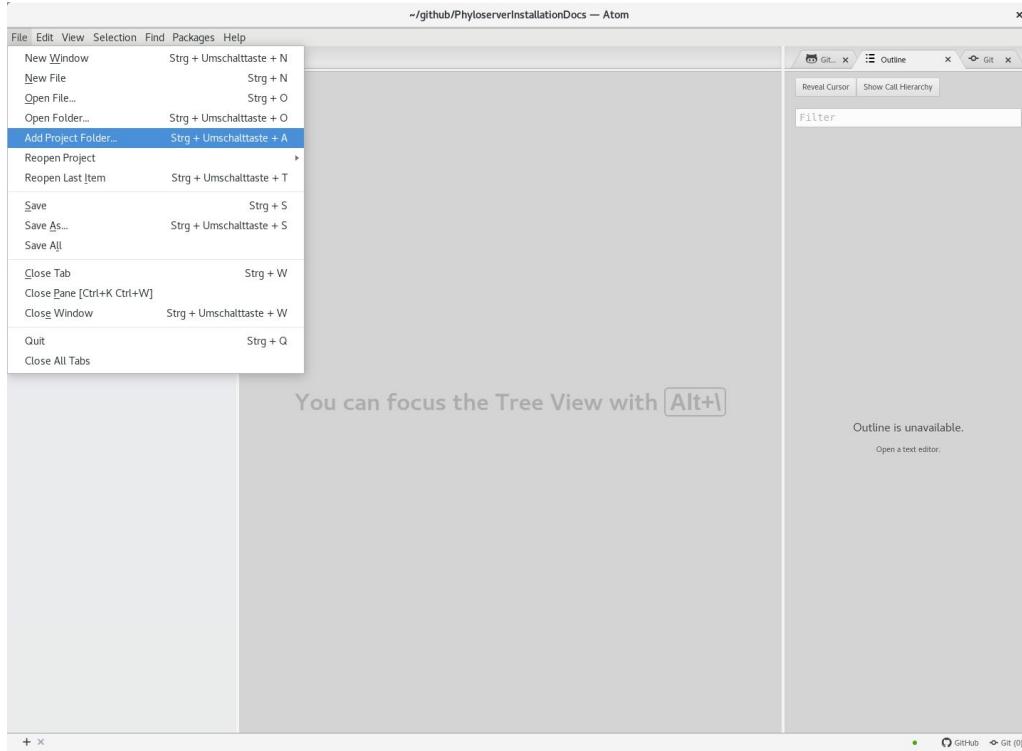
```
## create github directory in home folder  
  
mkdir ~/github  
  
cd ~/github  
  
## check if your git is set up correctly  
  
git config --global --list  
  
# 1) clone private My1stRepo repository  
  
## note that you need your access token for that  
  
firefox https://github.atom.io/login  
  
# then enter the token when prompted  
  
git clone https://capoony@github.com/capoony/My1stRep  
  
# 2) clone public repository  
  
git clone https://github.com/nhmvienna/Workshop_III_GitHub
```

Check out:

https://GitHub.com/nhmvienna/Workshop_III_GitHub/blob/master/shell/clone_repository.sh

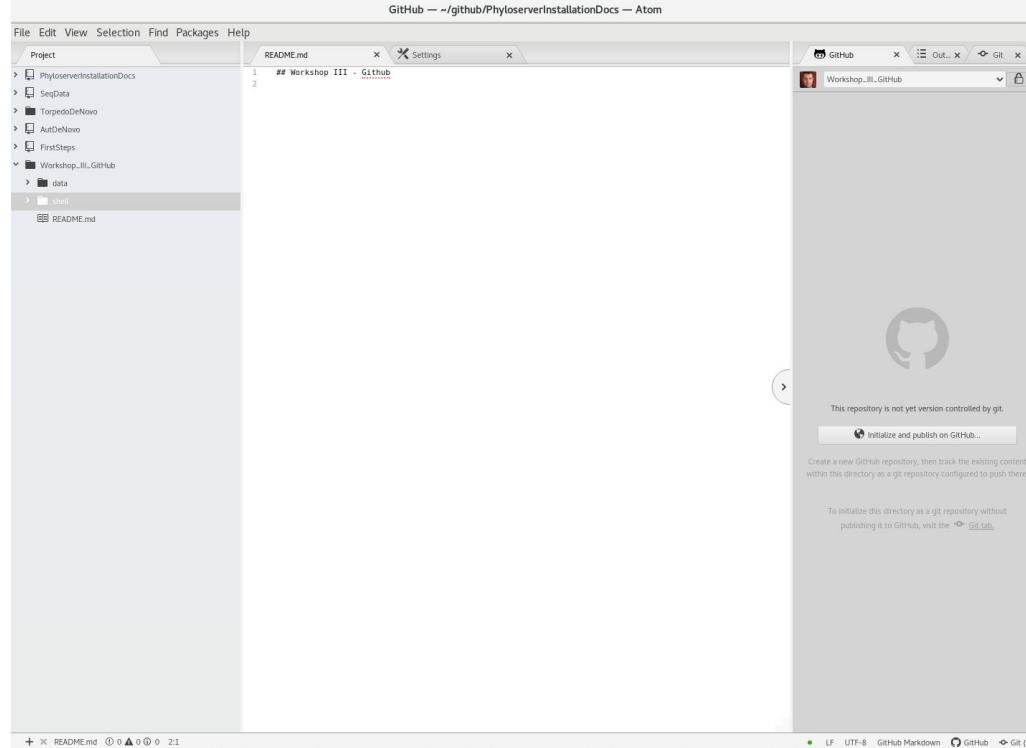
c) Publish a repo on GitHub

- Add a new project folder which contains the data that you want to publish, or...
- Create a new folder and add it as a project folder



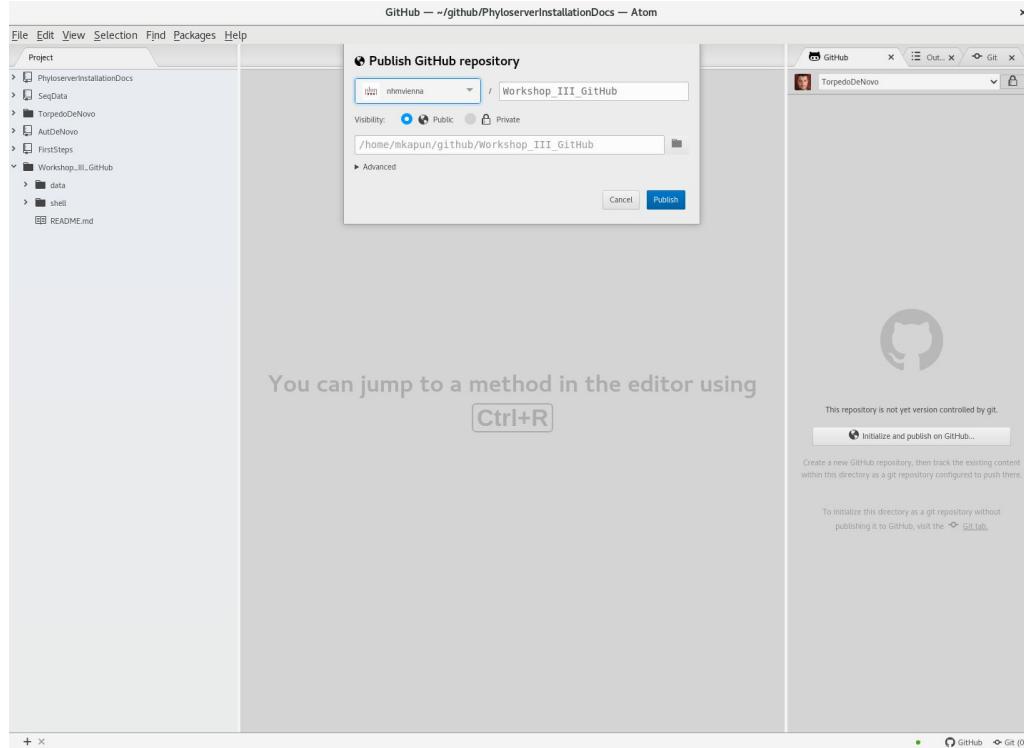
c) Publish a repo on GitHub

- Once the Folder appears in the project tab, you can see, that it is neither initialized, i.e. under version control with git, nor published on GitHub



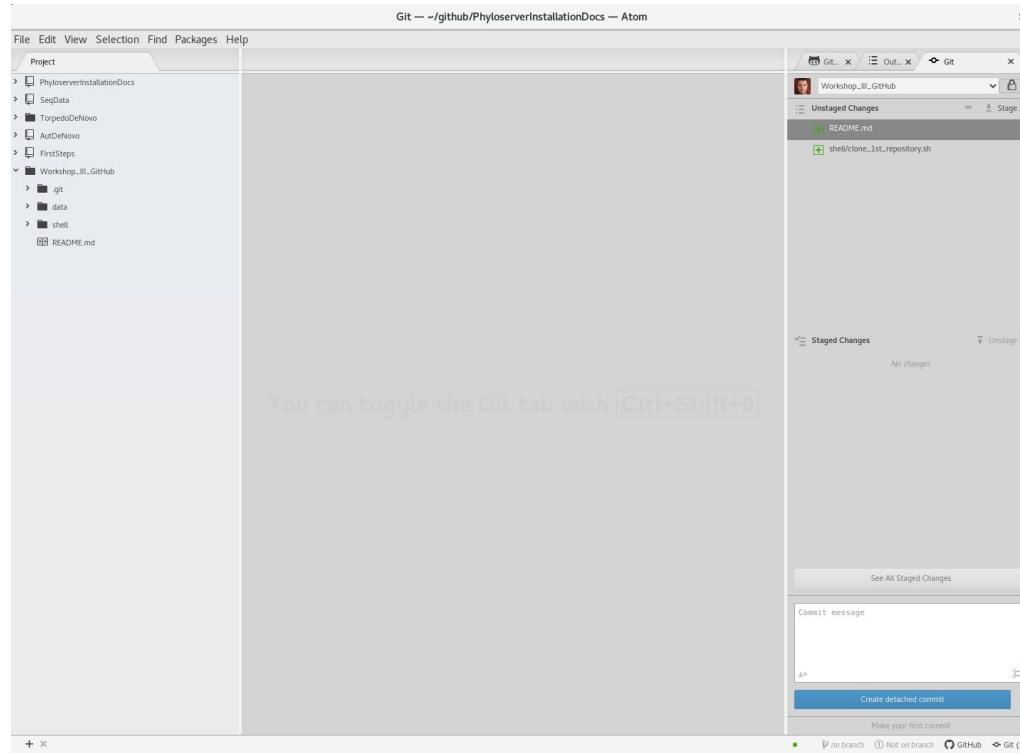
c) Publish a repo on GitHub

- Once you press “initialize”, you can decide where to publish
- Please **ALWAYS** use your private account, unless the repo is (1) a software project to be published or (2) a resource for the NHM
- By default, it is published public, which may be not what you want!



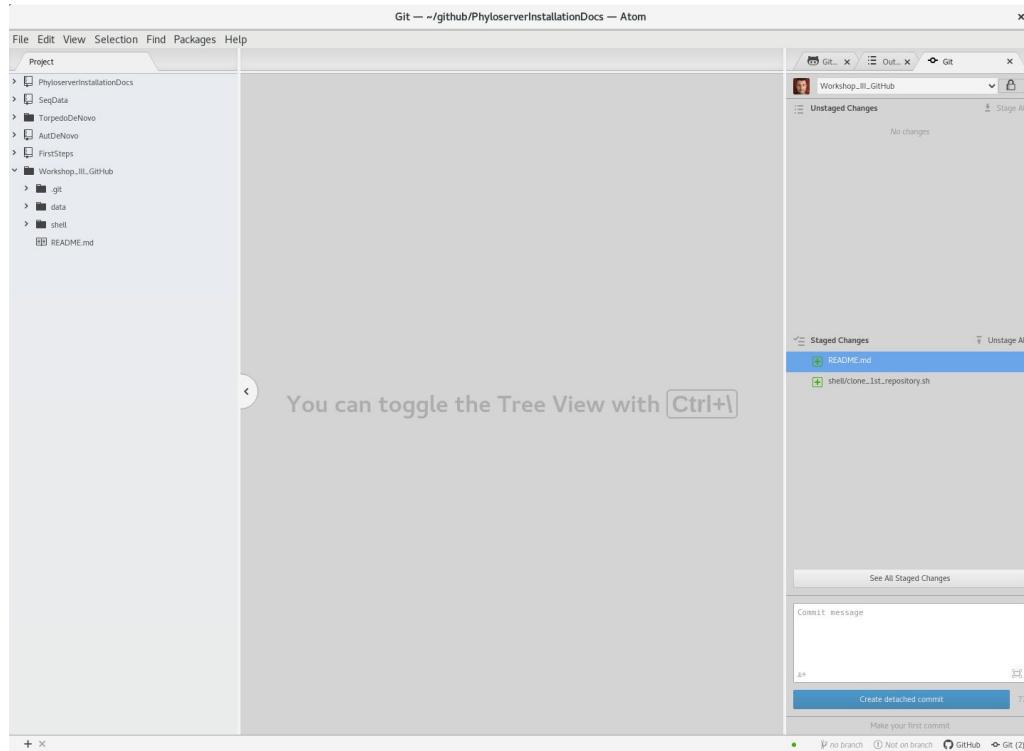
c) Publish a repo on GitHub

- A new .git folder will appear within the project, which represents the git repository.
- New files will appear in green as unstaged (and thus not yet version-controlled) files.



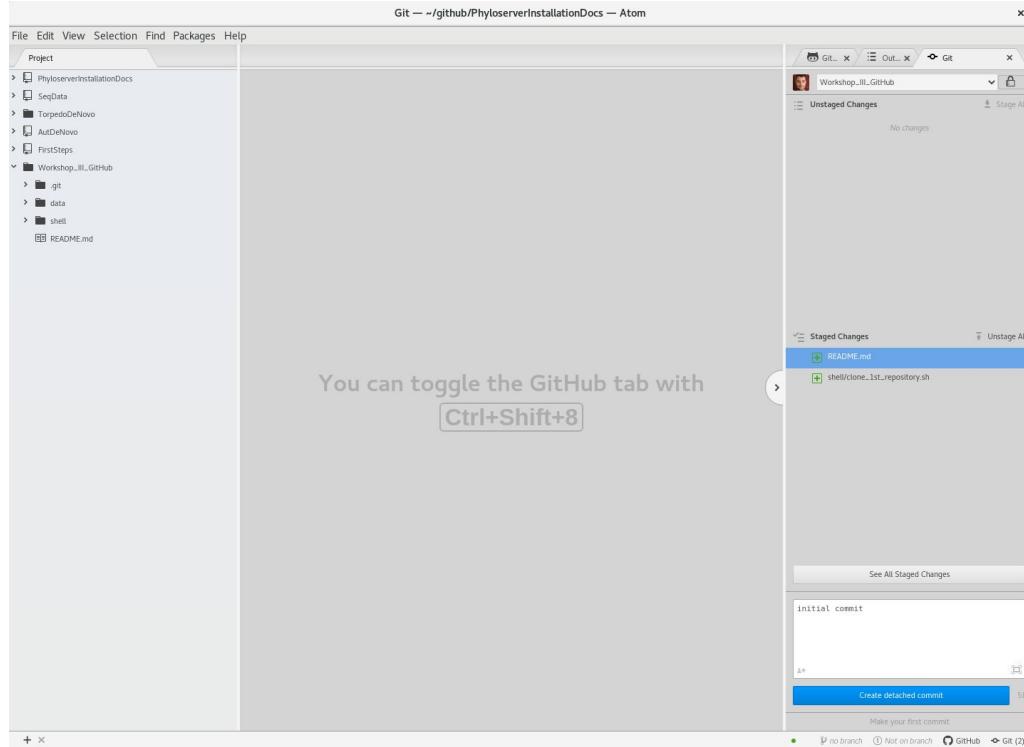
c) Publish a repo on GitHub

- Once they are staged, they are ready to be committed



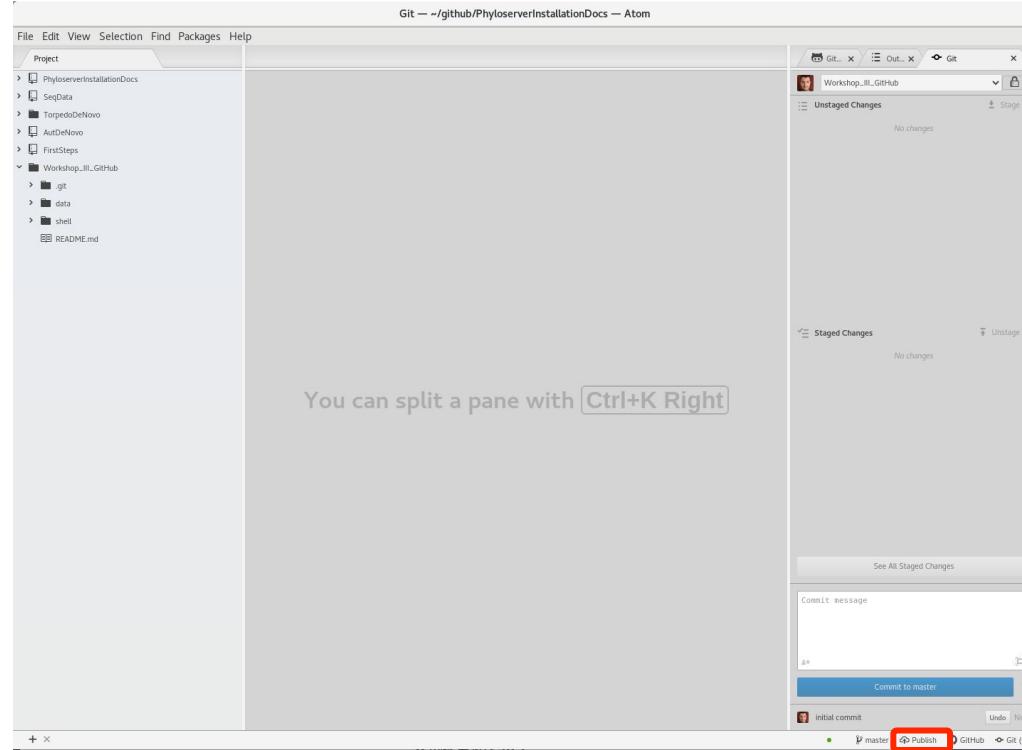
c) Publish a repo on GitHub

- You need to write a description for every commit, in this case, it is our “initial commit”



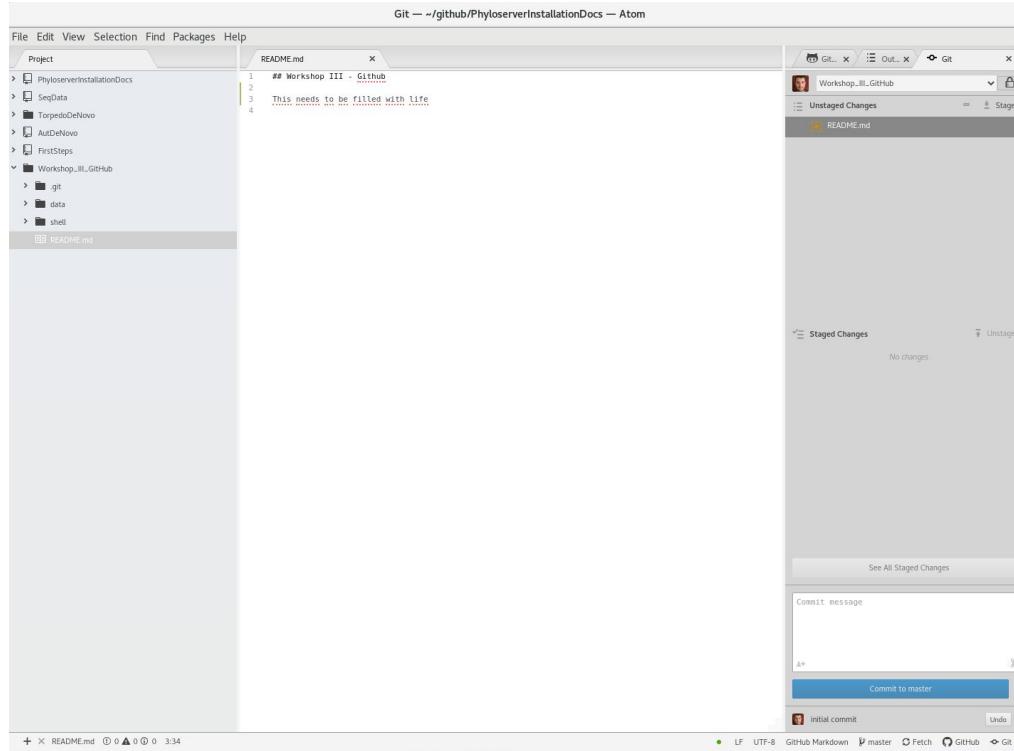
c) Publish a repo on GitHub

- Last, but not least you need to “publish”, which, is very well hidden at the right bottom.
- Congrats, now, your repo is online!



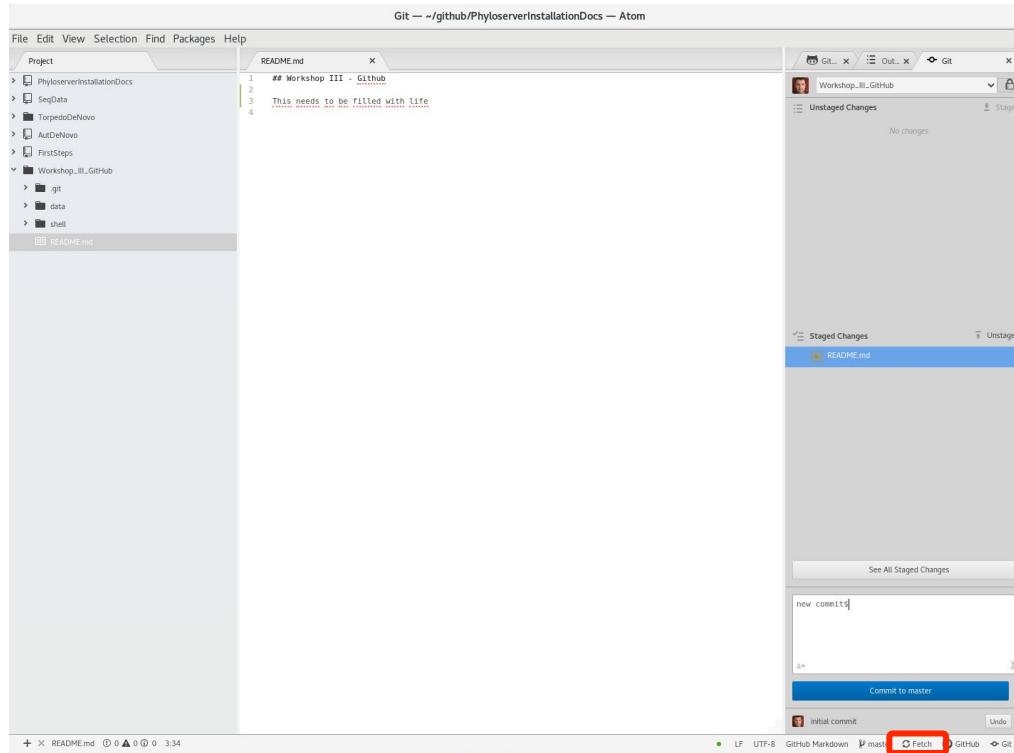
d) Make changes to your repo

- When you make edits to your files under version control, the changes in the text will be highlighted by vertical bars in the editor and by changes to the color of the filename



d) Make changes to your repo

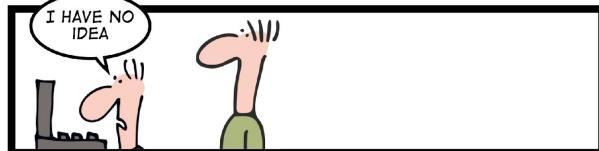
- As before, you need to stage the changes and add a description before committing the changes.
- Once this is done, you can push the changes, by pressing the same small button as before



(3) GitHub & Atom

1. Clone your My1stRep repository from the first exercise via Atom
2. Create a new folder on the server and publish it to your private GitHub account
3. Make modifications to the README.md in Atom and push the changes

SIMPLY EXPLAINED



Git