

Session 1 - GitHub Basic Intro



Emma Karoune and Celine Kerfant

On behalf of the ICOPS Committee

Adapted from: Esther Plomp's Github Intro workshop

References: [Mozilla Science Lab's Study Group Orientation](#),

[Friendly GitHub Intro by Kirstie Whitaker](#) &

Visual description: <https://learngitbranching.js.org/>

The Turing Way's ['Getting started with Github'](#)

Other resources:

Developing Collaborative Documents [Click here for the paired online materials](#)

by Malvika Sharan

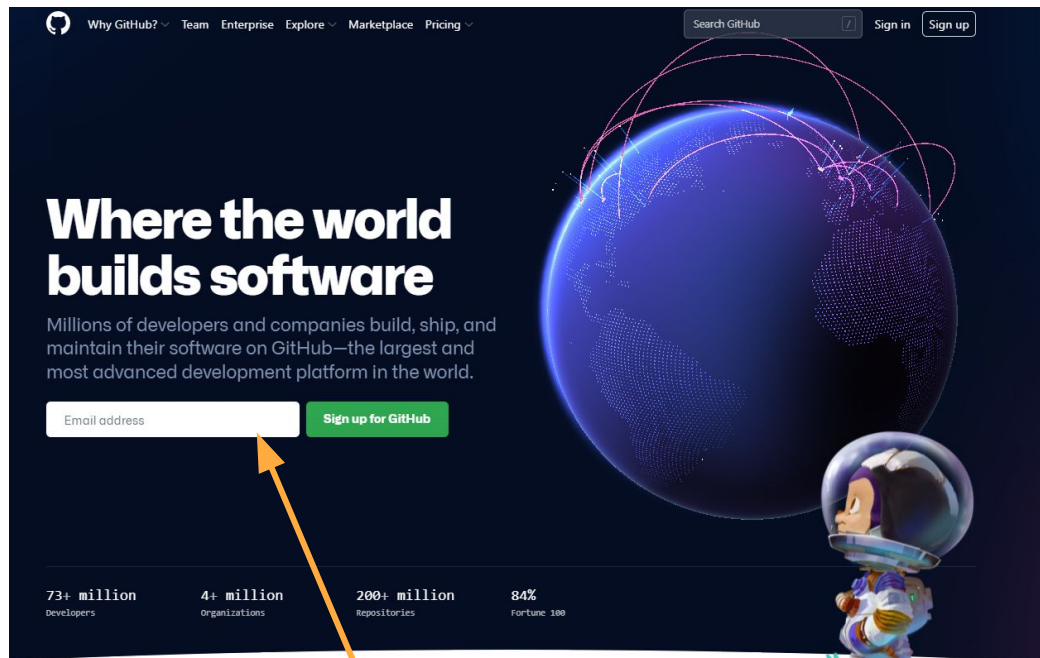




Go to github.com

Step 1: Sign-up

Step 2: Log in



Enter your email address here
and click green button

Learning outcomes - Session 1

- To list some examples of use of Github.
- To be able to navigate the Github interface.
- To set up a personal repository.
- To start using markdown script.



Learning outcomes - Further sessions

Session 2 - *Collaboration with Github*

- To know what Version control is.
- To start using a collaborative workflow in Github.

Session 3 - *Further uses with Github*

- To know how to set up project management boards.
- To set up a simple Github webpage.

We won't be covering:

- Git through the command line - see for example [Version Control with Git](#) by the Carpentries
- Using a programming language with Git - see [slide 105](#) for R examples



Schedule - 9am to 11am UTC

09:00 - 09:10 Log in and setting up a GitHub account

09:10 - 09:15 Intro to session

09:15 - 09:35 Why use Github?

09:35 - 10:05 Creating first GitHub repository

10:05 - 10:40 Markdown and editing README.md file

10:40 - 10:50 Adding a license

10:50 - 11:00 Final tips, Wrap up, questions.



Schedule - 2pm to 4pm UTC

14:00 - 14:10 Log in and setting up a GitHub account

14:10 - 14:15 Intro to session

14:15 - 14:35 Why use Github?

14:35 - 15:05 Creating first GitHub repository

15:05 - 15:40 Markdown and editing README.md file

15:40 - 15:50 Adding a license

15:50 - 15:00 Final tips, Wrap up, questions.



Code of Conduct

Yes / Encouraged

- Show empathy and kindness toward others
- Be respectful of differing opinions, viewpoints, experiences and **technological choices**
- Give and gracefully accepting constructive feedback
- Take responsibility for mistakes and any impact on others, learn from the experience
- Taking breaks to recharge!



Code of Conduct

Please contact about any violations:

- Emma Karoune (ekaroune@googlemail.com)
- Celine Kerfant (celineemmanuelle.kerfant@upf.edu)

No harassment

- Verbal and text comments that reinforce social structures of domination related to gender, gender identity and expression, sexual orientation, ability, physical appearance, body size, race, age, religion or work experience.
- Use of sexual or discriminatory imagery, comments, or jokes
- Deliberate intimidation, disruption
- Unwelcome sexual attention
- Advocating for, or encouraging, any of the above behaviour

If the Code of Conduct is violated you will be asked to stop or leave the space.



Learning with a growth mindset

Try to have a go at the activities yourself

But do ask for help when you get stuck

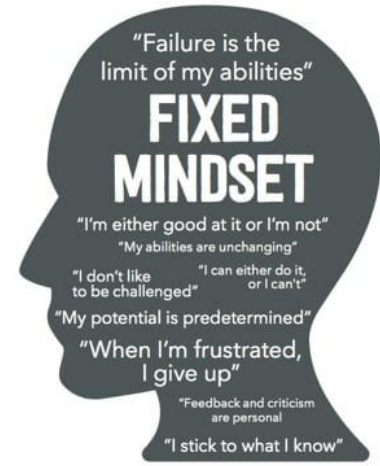
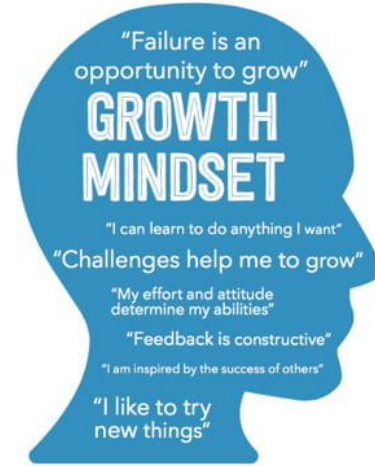
There are no silly questions.

If you need help - use the zoom raise hand or write a question in the chat or shared document.

- When ready to move on - please do a thumbs up.

In-person

- Use stickies: please use a **green** for when you're ready to continue, a **red** one if you're stuck.
- If you're helping someone: try as much as possible to let this person do the typing/fixing and walk them through it. Try to avoid taking over the keyboard and fixing it for them.



© Big Change





Why use GitHub?

It's not just for software, it's for collaborative working on ANY project!

On Github you can:

- Collaborate on projects
- Share your documentation
- Build your own website
- Set up presentations
- Project management
- Continuous integration
- Use as an add-on for repositories

**And track all that's
been done and who
has done the work!**




What do you want to be able to do with Github?

Take a moment to think about:

- What will you use Github for?



Use your Github profile page as a CV



Set st...

Emma Karoune

Ekaroune

Research Associate at The Alan Turing Institute, Turing Way Contributor, Archaeobotanist, SSI Fellow, AEA Committee Member


Edit profile

12 followers · 1 following

The Alan Turing Institute

@ekaroune

Achievements



Organizations

The Alan Turing Institute

Overview

Repositories 22

Projects 1

Packages

Stars 27

Ekaroune / README.md

Hi there 🙋 I'm Emma.

I work as a Senior Community Manager of the Turing/RSS Lab and DECOVID project at the [Alan Turing Institute](#).

I'm also the Principal Investigator of the [FAIR Phytolith Project](#).

I'm a core contributor to [The Turing Way](#).

I'm currently working on:

- FAIR data implementation through community building and training for FAIR data management.
- Papers about reproducible research in archaeology and academic authorship.
- Turing way chapters about sensitive data.

I'm currently learning to get better at R.

Ask me about my blog - [The Open Archaeobotanist](#)

How to reach me:

- Email: ekaroune@turing.ac.uk
- Twitter: [ekaroune](#)
- ORCID: [0000-0002-6576-6053](#)

Pronouns: she/her

Pinned

The-Open-Archaeobotanist

Public

Blog about all things open and archaeobotany!

HTML 5 1

Customize your pins

alan-turing-institute/the-turing-way

Public

Host repository for The Turing Way: a how to guide for reproducible data science

TeX 1.1k 439

13

Set up a website CV.

CAREER PROFILE

Research Associate and Community Manager of the DECOVID project, The Alan Turing Institute. Independent archaeobotanist focused on FAIR data in phytolith research and reference collections for the British flora.

Active member of The Turing Way community.

EXPERIENCES

Research Associate and Community Manager

2021 - Present

The Alan Turing Institute, London

I am responsible for co-ordinating the different teams of data analysts and clinicians working on the DECOVID project. I ensure communication is effective throughout the project by maintain the Github repositories, using different communication channels to pass on information and ensuring efficient workflow streams. I am also contributing to The Turing Way by writing new chapters concerning scientific communication such as how to write collaborative academic papers and how to deal with authorship on collaborative projects.

Independent Postdoctoral Researcher

2019 - present

Open archaeobotanical research specialising in phytolith analysis. I am currently working on two projects: i) an open project concerning the application of phytolith analysis on British Archaeological sites including investigations into the methodologies used in phytolith analysis to build more robust and reproducible methods; ii) the development of open science practices in phytolith research. The later project has focused initially on assessing the extent of open science in this field and starting to build an open research community (see my project page: <https://osf.io/qp68n/>). Moving forward, I am collaborating, with my newly formed working group, to expand and consolidate this community, and we have applied for a European Open Science Cloud Digital Life Science Grant to fund a FAIRification project, in which I will be the Principal Investigator.

SEN Science Teacher

2018 - 2020

The Harbour Medical School

Planning and teaching science lessons for pupils aged 11 to 16 with special educational needs -



Emma Karoune

Postdoctoral Researcher

 ekaroune@gmail.com

 [ekaroune.github.io/The-Open-Archaeobotanist/](https://github.io/The-Open-Archaeobotanist/)

 EKaroune

 @ekaroune

EDUCATION

PGCE in Secondary Science Education

Kingston University
2006 - 2007


PhD in Archaeobotany

Institute of Archaeology, University College London
2002 - 2006

MSc in Palaeoecology of Human Societies

Institute of Archaeology, University College London
2001 - 2002

Why Github?

 EstherPlomp	Update 20210902-n19.md	adf3ae0 on Sep 1	🕒 40 commits
📁 Newsletters	Update 20210902-n19.md		last month
📄 LICENSE.md	Create LICENSE.md		9 months ago
📄 README.md	Initial commit		9 months ago

README.md

TNW-PhD-Newsletters

Overview of the newsletters sent to the PhD students of TNW

<https://github.com/EstherPlomp/TNW-PhD-Newsletters>

Events:

- Four online [workshops demonstrating open-source tools in chemistry](#) are taking place in the upcoming months, including ChimeraX, GNINA 1.0 and DataWarrior. See also the recordings from the workshops on [DataWarrior](#), [PyMOL](#), [GoogleCoLab](#), [CheMBL](#), [Fragalysis](#), [Knime](#) that were organised before.
- NUI Galway is hosting the third [Open Scholarship Week](#) from 10-14 May. [Registrations are now open](#) and there is an [Open Scholarship Prize Competition](#) (deadline for applications is **16 April**)!
- [NWO Life2021](#) (NWO conference for the Dutch Life Sciences) takes place online on the 26-28 of May. Deadline for [poster abstract submission](#) is the **8th of April**.

The Netherlands eScience Center opened up their [call for in-kind investment of a dedicated team of research software engineers](#) (RSEs) from the eScience Center that will work together with you on a project. You will need your supervisor (or someone else with a PhD) for this application. First deadline is **6th of May**.

You can indicate interest for an [intermediate Python course](#) [piloted by the UK Software Sustainability Institute](#) [here](#).

Working on your next or first **publication**? Want to publish a protocol?

- Not sure how to structure your publication? [This brief guide to writing manuscripts](#) might be of help! (with benefits of Open Science listed on page 6)
- PLOS ONE introduced two new publication formats: [Lab Protocols](#) and [Study Protocols](#)!
- [How to write a great science paper](#) – tips from a novelist
- Watch a short video on [how to write an abstract](#)
- Use [Recite](#) to check your citations

Why Github?

<https://estherplomp.github.io/>



ABOUT ME

ROLES

OUTPUTS

TALKS

BLOGS

LEADERSHIP

COPYRIGHT

ESTHER PLOMP

OPEN SCIENCE / RESEARCH DATA MANAGEMENT / HUMAN OSTEOLOGY / ISOTOPE ARCHAEOLOGY

I'm an Open Science enthusiast and I would like to contribute to a more equitable way of knowledge generation and facilitate others in working more transparently. My research interests are osteology/bioarchaeology. I like to listen/read books (see [this Twitter thread](#) for some titles), dance, draw and game (Guildwars 2) when I'm not eating pie with friends/family.

Please get in touch about any ideas for collaboration, speaking opportunities, mentorship or to send me some cat pictures via the channels below:



Why Github?

<https://uf-repro.github.io/data-organization/slides.html#1>
<https://github.com/uf-repro/data-organization/blob/main/slides/slides.Rmd>

Your Slides are So Extra!

Extra-Special Presentations with xaringanExtra

GARRICK ADEN-BUIE
@grrrck



Data Organization in Spreadsheets

Hao Ye

Health Science Center Libraries,
University of Florida

(updated: 2021-08-31)

See also:

- <https://rmarkdown-shilaan.netlify.app/#1>
- <https://github.com/shilaan/rmarkdown-session>

<https://slides.garrickadenbuie.com/extra-special-xaringan/?panelset1=setup2#1>

Why Github?



Date	Title	Duration	Event	Location	Source
Feb 20, 2019	The Carpentries	30min	ELIXIR Bioinformatics Training Tools Workshop	Debrecen, Hungary	Source
May 20, 2019	Beer is alive!	30min	Pint of Science	Freiburg, Germany	Source
Feb 7, 2019	Galaxy Training Network and Schema.org	10min	Boost Your Visibility – Improving F of FAIR for Dutch Training and Data Resources through Bioschemas	Utrecht, Netherlands	Source
Feb 20, 2019	The training effort of the Galaxy community	30min	ELIXIR Bioinformatics Training Tools Workshop	Debrecen, Hungary	Source

<http://talks.bebatut.fr/2019/>
<https://github.com/bebatut-slides/2019>

Add on to repositories

Link your Github repos to:

- Zenodo
- [Open science framework](#)
- [Figshare](#)

The screenshot shows a GitHub repository page for 'The Open Archaeobotanist'. At the top, there are tabs for 'main', '1 branch', and '2 tags'. Below this is a table of files and their commit history. A blue arrow points from the 'Why?' section to the 'DOI' field in the README. Another blue arrow points from the 'Add space' section to the '+ 1 release' link in the 'Releases' section.

File	Commit Message	Time Ago
posts	update edits from LW	4 months ago
asset/img	adding images for lw guest blog	5 months ago
CITATION.cff	updating message	8 days ago
LICENSE	Create LICENSE	14 months ago
README.md	updating doi	4 months ago
_config.yml	Update _config.yml	14 months ago
abcofarchaeobotanicalopenscience.md	adding edi	10 months ago
aboutme.md	Update aboutme.md	14 months ago
contactme.md	Rename contact me to contactme.md	14 months ago
index.html	Update index.html	14 months ago
license.md	formatting	5 months ago

README.md

The Open Archaeobotanist

DOI [10.5281/zenodo.5179986](#)

Releases 2

[The Open Archaeobotanist Blog...](#) Latest
on Aug 11

[+ 1 release](#)

Packages

No packages published
[Publish your first package](#)

Contributors 3

Why?

- DOI
- Versioning
- Add space

No collaboration?



Colin Angus @VictimOfMaths · 18 jun.

Als antwoord op [@VictimOfMaths](#)

1) You write better code when you know other people might see it.

It's good to have an incentive to add more comments to your code, lay things out neatly and (generally) avoid hacky workarounds.



<https://twitter.com/VictimOfMaths/status/1405809691062591490>



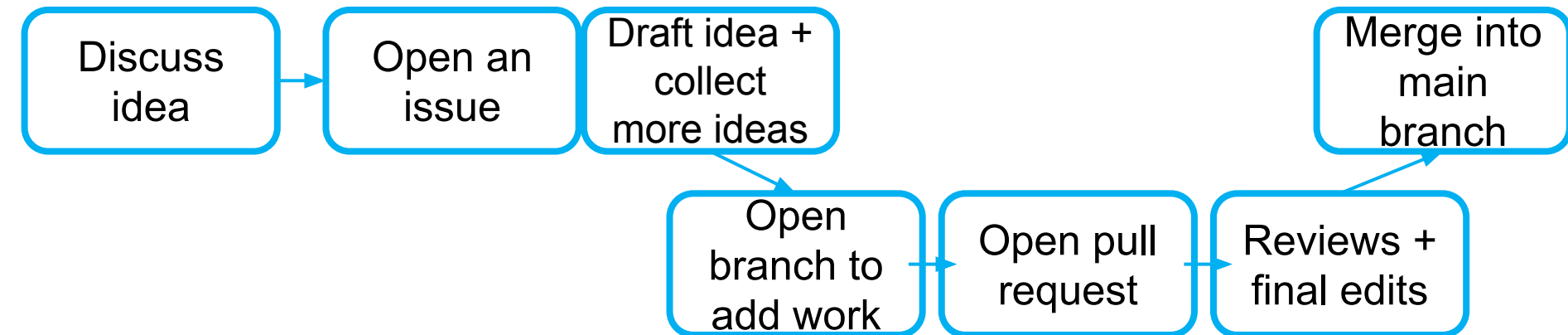


The Turing Way

An Open Source guide on Data Science.

We involve and support a diverse community to collaboratively develop resources to make data science reproducible, ethical and inclusive for everyone.

309 contributors - how? Github workflow



Share documentation



main

the-turing-way / CONTRIBUTING.md

Go to file

malvikasharan update contributing file ✓

Latest commit 251416e 22 days ago

History

34 contributors

+15

471 lines (331 sloc) | 39.1 KB

<> | | Raw | Blame | | |

Contributing to *The Turing Way*

👋🔗📁 Welcome to *The Turing Way* repository! 📁🔗👋

👋🔗📁 We're excited that you're here and want to contribute. 📁🔗👋

We want to ensure that every user and contributor feels welcome, included and supported to participate in *The Turing Way* community. We hope that the information provided in this document will make it as easy as possible for you to get involved.

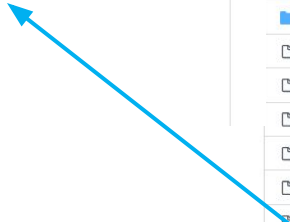
We welcome all contributions to this project via GitHub issues and pull requests. Please follow these guidelines to make sure your contributions can be easily integrated into the projects. As you start contributing to *The Turing Way*, don't forget that your ideas are more important than perfect pull requests. ❤️

If you have any questions that aren't discussed below, please let us know through one of the many ways to [get in touch](#).

Table of contents

Been here before? Already know what you're looking for in this guide? Jump to the following sections:

- [Joining the community](#)
- [Inclusivity](#)
- [Get in touch](#)
- [Contributing through GitHub](#)



Projects 3

Security

Insights

main

75 branches

6 tags

Go to file

Add file

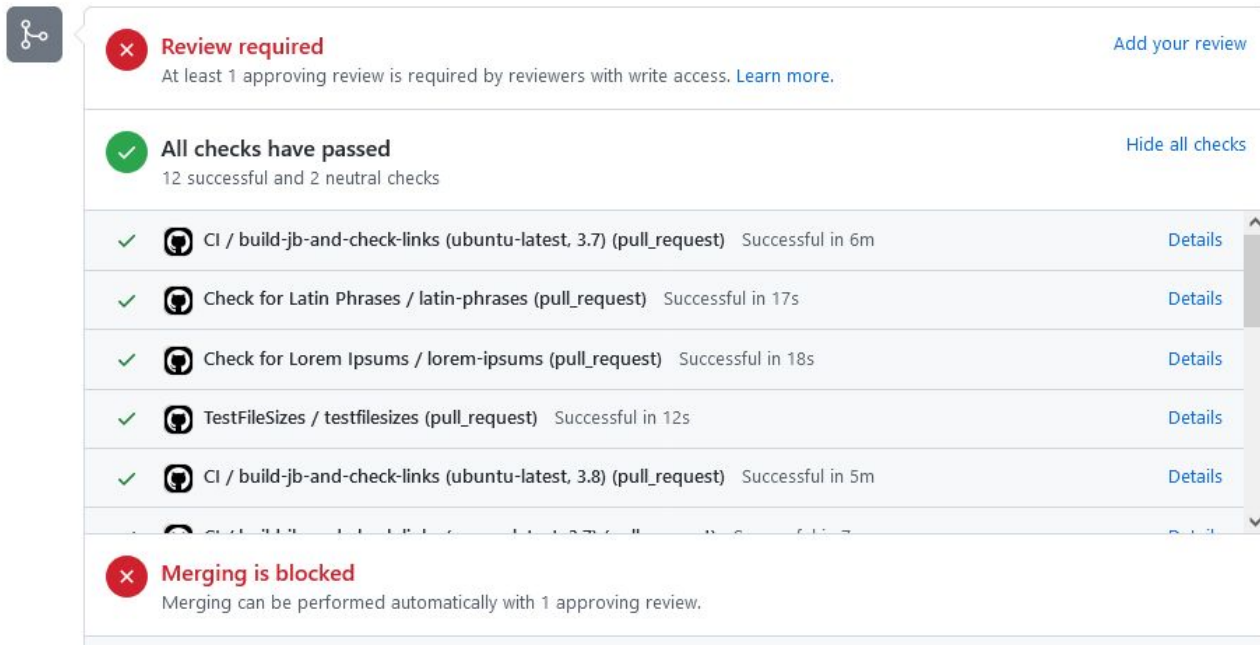
Code

arronlacey Merge pull request #2234 from arfon/typos ✓ f78498c 8 days ago 9,037 commits

.github	[MNT] Update links and references from master to main branch	2 months ago
README-translated	Update README-Italian.md	2 months ago
book	Github -> GitHub	11 days ago
communications	Update newsletter_30_Dec2021.md	14 days ago
conferences	[MNT] Update links and references from master to main branch	2 months ago
open-life-science-mentoring	Update README.md	22 days ago
project_management	move old files to archive	20 days ago
tests	remove -e	22 days ago
workshops	Added Alden's name	2 months ago
.all-contributorsrc	docs: update .all-contributorsrc	16 days ago
.gitignore	Adding pycharm file to gitignore, and add structure and comments. "bo...	14 months ago
.zenodo.json	Update .zenodo.json	last month
CITATION.cff	Update CITATION.cff	last month
CODE_OF_CONDUCT.md	Fix link in table of contents	10 months ago
CONTRIBUTING.md	update contributing file	22 days ago

GitHub allows for testing/continuous integration to prevent errors






<https://docs.github.com/en/actions/automating-builds-and-tests/about-continuous-integration>



The screenshot displays the status bar of a GitHub pull request. It features a 'Review required' message at the top, followed by a section titled 'All checks have passed' which lists several successful CI jobs. At the bottom, a 'Merging is blocked' message indicates that an approving review is needed for the merge.

Review required [Add your review](#)
At least 1 approving review is required by reviewers with write access. [Learn more.](#)

All checks have passed [Hide all checks](#)
12 successful and 2 neutral checks

- ✓  CI / build-jb-and-check-links (ubuntu-latest, 3.7) (pull_request) Successful in 6m [Details](#)
- ✓  Check for Latin Phrases / latin-phrases (pull_request) Successful in 17s [Details](#)
- ✓  Check for Lorem Ipsums / lorem-ipsums (pull_request) Successful in 18s [Details](#)
- ✓  TestFileSizes / testfilesizes (pull_request) Successful in 12s [Details](#)
- ✓  CI / build-jb-and-check-links (ubuntu-latest, 3.8) (pull_request) Successful in 5m [Details](#)

Merging is blocked
Merging can be performed automatically with 1 approving review.

Project management (Project Board)

Sort issues, notes, to-dos
in a set of columns.

The screenshot displays the GitHub Project Board for the `intermine` repository. The interface includes a top navigation bar with links to Pull requests, Issues, Marketplace, and Explore. Below this, the repository name `intermine / intermine` is shown, along with filters for Unwatch (15) and Unstar (1). The main navigation bar includes links to Code, Issues (217), Pull requests (1), Actions, Projects (4), Wiki, Security, Insights, and Settings. The current view is the "Roadmap & release planning" board, updated 26 days ago, with a search bar for "Filter cards" and options to "Add cards" or "Add more".

The board is organized into three columns representing different versions of InterMine:

- InterMine 4.1.2 (January 2019)**: Contains three issues.
 - DataSet URLs do not appear in tables; do show in report heading** (#2045, opened by sammyjava, bug). Labeled "InterMine 4.1.2".
 - Remove "upload to GenomeSpace" export** (#2107, opened by julie-sullivan). Labeled "InterMine 4.1.2".
 - Remove im.js, imtables.js, imtables-dep.js from intermine-webapp** (#2112, opened by danielabutano, enhancement). Labeled "enhancement".
- InterMine 4.2.0 (Spring 2019)**: Contains three issues.
 - FAIR: add profile Gene and Protein markup to the report page** (#1969, opened by danielabutano, fair). Labeled "Future InterMine release".
 - Add "data sets" source -- instead of using items XML** (#2024, opened by julie-sullivan, input-needed). Labeled "input-needed".
 - Non-existent web services should return a 404 error.** (#703, opened by joshkh). Labeled "Future InterMine release".
- InterMine 5.0.0**: Contains one issue.
 - Add gradle task to stop bluegenes** (#2121, opened by danielabutano). Labeled "Future InterMine release".

The URL at the bottom of the screenshot is <https://github.com/intermine/intermine/issues/2045>.

Other similar platforms



TASK 1: Make your first repo

Repository (Repo)

A project where all your files are, online or on your computer.



DEMO of making a repository

Repositories on Github can:

- Be public or private
- On your own account or an organisational account
- You can give different users, different rights to editing repositories
- Can store and use any type of file - not just code.
- Linked to other tools/repositories



Create a new repository

A repository contains all project files, including the revision history. Already have a project repository elsewhere?

[Import a repository.](#)

Repository template

Start your repository with a template repository's contents.

No template ▾

Owner *

EKaroune ▾

Repository name *

my-first-repo ✓

Great repository names are **my-first-repo** is available. Need inspiration? How about **fluffy-waddle**?

Description (optional)

☒ Public

Anyone on the internet can see this repository. You choose who can commit.

☐ Private

You choose who can see and commit to this repository.

Initialize this repository with:

Skip this step if you're importing an existing repository.

☒ Add a README file

This is where you can write a long description for your project. [Learn more.](#)

☐ Add .gitignore

Choose which files not to track from a list of templates. [Learn more.](#)

☐ Choose a license

A license tells others what they can and can't do with your code. [Learn more.](#)

This will set **main** as the default branch. Change the default name in your [settings](#).

Create repository

1. Click on green new button
2. You will see the name of your account and you need to fill in a repository name next to it.
3. Also, leave the box ticked for “public” (so your repository is open to all) and then tick the box to create a “README file”.
4. Then click the green create repository button at the bottom.



Now make your own first repository!



You created your first repo.

Exploring the repository

1. Username

2. Repository

3. Code

4. Main

5. Branch

6. README.md

7. Green Code button

8. '+' symbol

9. Fork

10. Add file

11. Commits/
Clock symbol

12. Edit/ Pencil
symbol

The image shows a screenshot of a GitHub repository page for 'EKaroune/trial-repo'. The page is annotated with 12 numbered callouts pointing to various elements:

- 1. Username: Points to 'EKaroune' in the repository path.
- 2. Repository: Points to 'trial-repo' in the repository path.
- 3. Code: Points to the '<> Code' button in the repository navigation bar.
- 4. Main: Points to the 'main' branch dropdown.
- 5. Branch: Points to the '1 branch' dropdown.
- 6. README.md: Points to the 'README.md' file link.
- 7. Green Code button: Points to the green 'Code' button with a download icon.
- 8. '+' symbol: Points to the '+' button in the top right navigation bar.
- 9. Fork: Points to the 'Fork' button in the top right navigation bar.
- 10. Add file: Points to the 'Add file' button.
- 11. Commits/Clock symbol: Points to the '1 commits' link.
- 12. Edit/Pencil symbol: Points to the pencil icon for editing the README.

GitHub & Markdown

How do you edit and format files on Github?

Using Markdown (.md)

- It's a human readable script that can be use to add formatting elements to plaintext text documents.
- The syntax makes it render in a way that presents a nicely formatted document on Github or webpages.

Markdown (.md) for formatting

Markdown is a simple text
“markup” language made for
quickly writing formatted text

Great for blogs, documentation,
and even writing papers.



GitHub automatically renders anything written in Markdown. This can be specific files, pull requests, issues or comments.

Some useful resources:

- <https://github.com/adam-p/markdown-here/wiki/Markdown-Cheatsheet>
- <https://www.webpagefx.com/tools/emoji-cheat-sheet>
- https://github.com/EstherPlomp/20211014-SeaChanges/blob/main/REA_DME.md

Task 2: Use Markdown to format README.md file

You have already created a README.md file

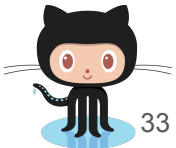
This is the **Landing page** for your repository

You can:

- Add information about your project
- List tasks of varying expertise clearly
- Add names/ids of your collaborators - contact information
- Invite others with specific skills

Any file with .md
is a markdown file

You need to use
Markdown to edit
this file.



From your repo landing page either click on the pencil symbol or click on the README.md file and then the pencil symbol.

The image shows a screenshot of a GitHub repository page for 'EKaroune / trial-repo'. The page is annotated with eight numbered callouts in white boxes with red arrows pointing to specific elements:

- 1. Repository and current file**: Points to the repository name 'EKaroune / trial-repo' and the file path 'trial-repo / README.md'.
- 2. Main branch**: Points to the 'main' branch dropdown menu.
- 3. Contributors**: Points to the 'Contributors' link in the left sidebar.
- 4. README.md file content**: Points to the main content area showing the README file content, which includes the text 'trial-repo'.
- 5. Raw file**: Points to the 'Raw' button in the file action bar.
- 6. Blame**: Points to the 'Blame' button in the file action bar.
- 7. Edit file**: Points to the pencil icon in the file action bar.
- 8. Delete file**: Points to the trash can icon in the file action bar.

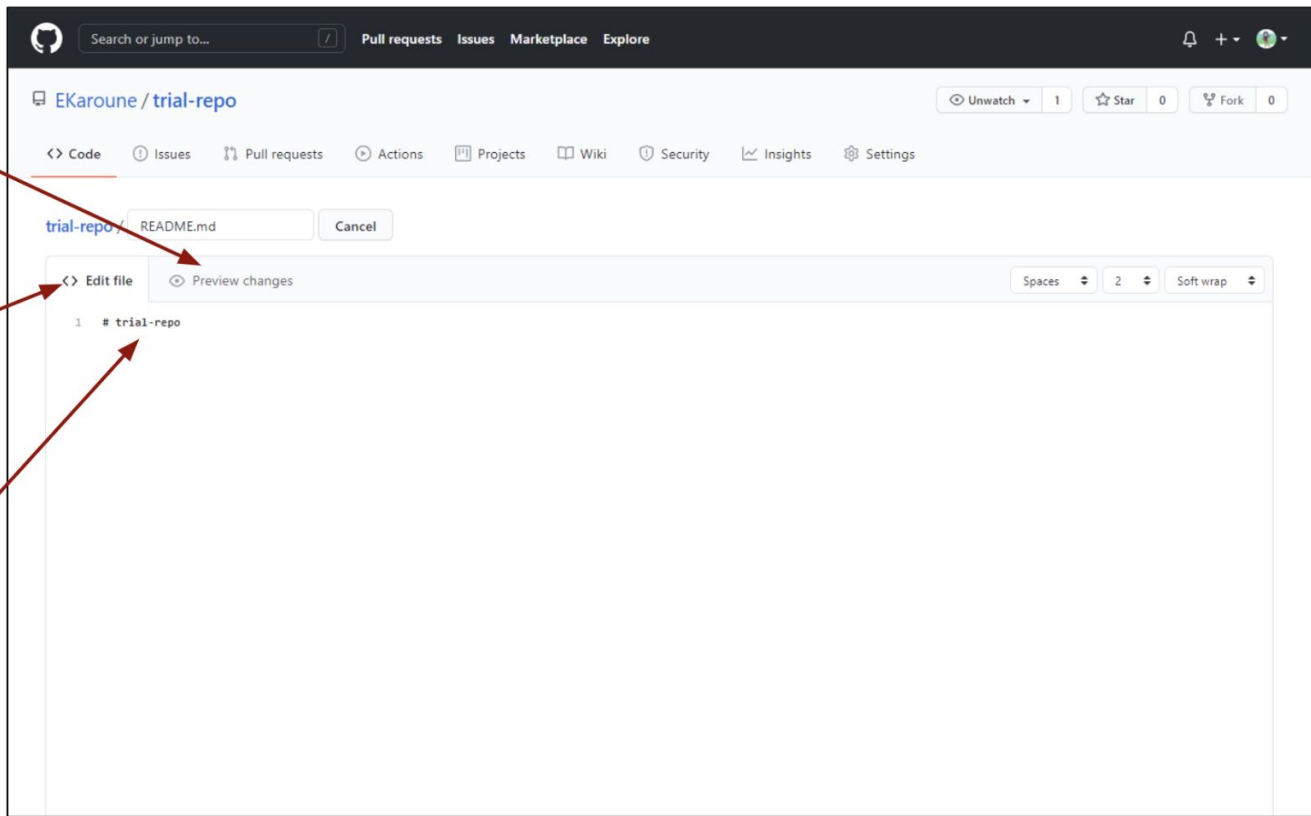
The repository page shows the 'main' branch selected, the file 'README.md' selected, and the file content displayed. The file content is 'trial-repo'. The file action bar at the bottom right contains buttons for 'Raw', 'Blame', 'Edit', and 'Delete'.

README.md file in edit mode

1. Preview changes

2. Edit file

3. Add content to README.md



Adding a template

my-first-repo / README.md in main

Cancel changes

<> Edit file

Preview

Spaces

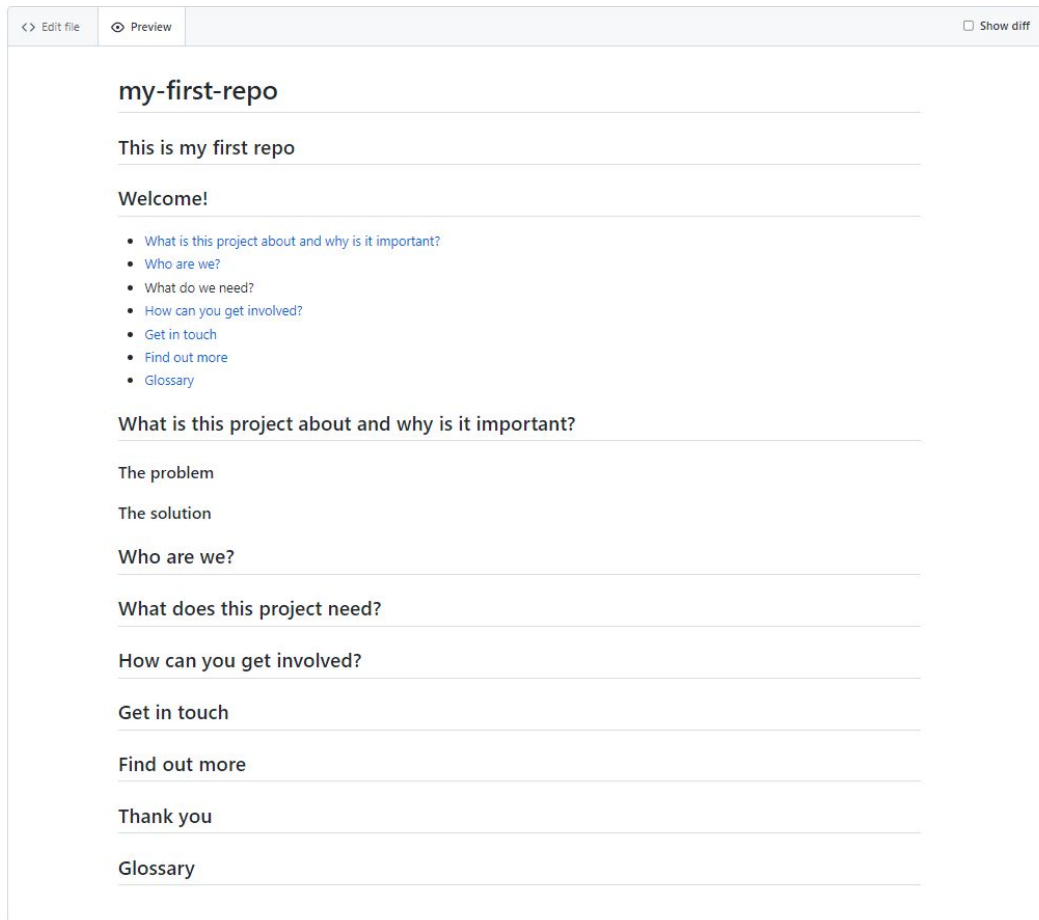
2

Soft wrap

```
1 # my-first-repo
2
3 ## This is my first repo
4
5 ## Welcome!
6
7
8 * [What is this project about and why is it important?](#what-is-this-project-about-and-why-is-it-important)
9 * [Who are we?](#who-are-we)
10 * [What do we need?](#what-do-we-need)
11 * [How can you get involved?](#how-can-you-get-involved)
12 * [Get in touch](#get-in-touch)
13 * [Find out more](#find-out-more)
14 * [Glossary](#glossary)
15
16 ## What is this project about and why is it important?
17
18
19 ### The problem
20
21
22 ### The solution
23
24
25 ## Who are we?
26
27
28 ## What does this project need?
29
30
31 ## How can you get involved?
32
33 ## Get in touch
34
35
```

Attach files by dragging & dropping, selecting or pasting them.

Adding a template - what it looks like rendered.



Once you have added more detail or a template to your README.file, you need to save the changes.

In Github, this is done by using the green *commit changes* button.

Always add a commit changes message.

This allows you to track the changes made easily.



Commit changes

editing readme file

Add an optional extended description...

☒ Commit directly to the `main` branch.

☐ Create a new branch for this commit and start a pull request. [Learn more about pull requests.](#)

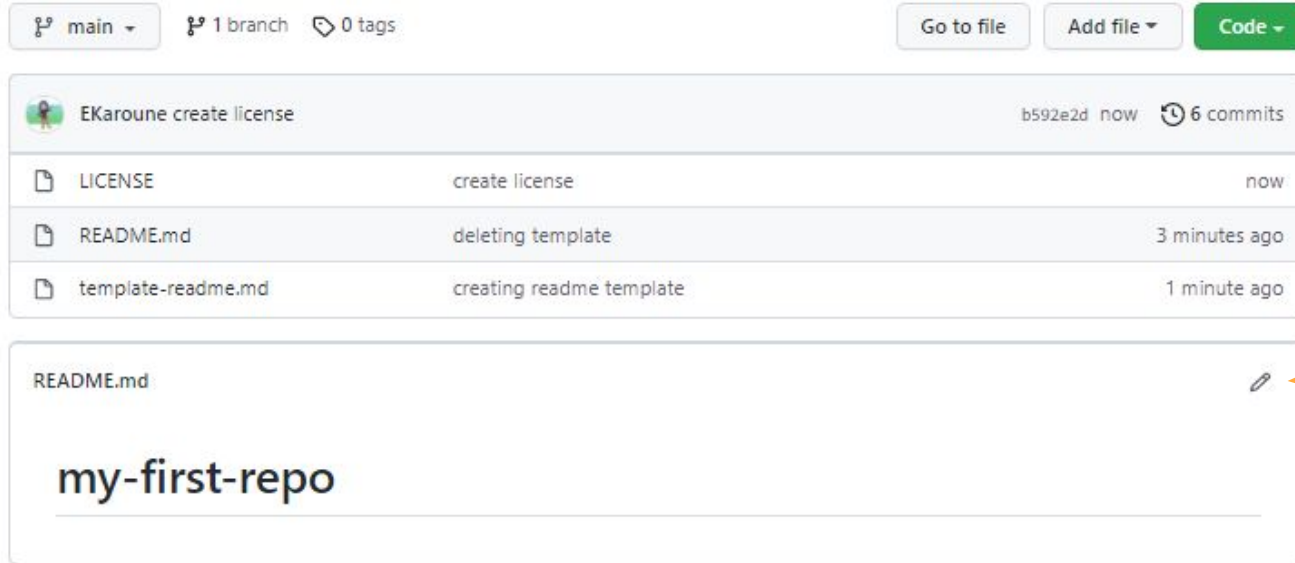
Commit changes

Cancel

Task 2: Use Markdown to format README.md file

Readme examples

- <https://alexwlchan.net/2021/10/readmes-for-open-science/> (multiple examples and explanation)
- <https://github.com/EstherPlomp/Figures-Nd-data>
- [Project readme template](#)



The screenshot shows a GitHub repository interface. At the top, there are buttons for 'main', '1 branch', and '0 tags'. Below these are buttons for 'Go to file', 'Add file', and 'Code'. The main content area shows a commit by 'EKaroune' titled 'create license' with a commit hash 'b592e2d' and '6 commits' ago. Below the commit, there is a table of files:

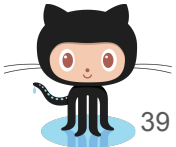
File	Commit Message	Time
LICENSE	create license	now
README.md	deleting template	3 minutes ago
template-readme.md	creating readme template	1 minute ago

Below the table, the README.md file is shown in a text editor. The file content is:

```
my-first-repo
```

An orange arrow points to the edit icon (a pencil) in the top right corner of the README.md editor.

Click here to edit



Task 3: Adding a license

- All Github repositories need a license.
- Licenses on Github are for software/code
- You can add any license you want to your repo

Software/code - MIT license

Data - CC0 or CC-BY 4.0

Project repositories and documentation - CC-BY 4.0
and also add MIT if you have code

Links for licenses:

- [Creative Commons](#)
- [MIT License](#)



Task 3: Adding a license

Explore the licenses and put one on your repository

Software/code - MIT license

Data - CC0 or CC-BY 4.0

Project repositories and documentation -
CC-BY 4.0 and also add MIT if you have code

Links for licenses:

- [Creative Commons](#)
- [MIT License](#)

CC-BY license Github file to [copy and paste](#)

Github license badges to add to README.md file -
<https://gist.github.com/lukas-h/2a5d00690736b4c3a7ba>



Final tips

Adding a folder and new file:

- Click add file, then create new file.
- Enter the folder name and then / and then name of file.
- You can create a README.md file for every folder.

You can also upload files clicking add file, upload files.

- Then drag and drop the files you want to upload.
- This can be done in the landing page or in folders.



Any questions?

Can you?

1. Give an example of a use of Github that you learnt about in this session?
2. Describe how to start editing a file in Github?
3. What are the two files you need to create when making a new repository?
4. What is markdown script?

Session 2 - *Collaboration with Github*

- To know what version control is.
- To start using a collaborative workflow in Github.

