Housekeeping

- Please respect the **Code of Conduct**

- Handouts available in:

  github.com/The-Turing-Summer-Experience/intro-to-github

- Use the **post-its** provided to let us know if you have a question or need help

- Please ask questions on anything related to these topics!

The Alan Turing Institute

Git Good: an Introduction to GitHub for Collaboration

Sophia Batchelor
Research Community Manager, AIM RSF

Malvika Sharan
Senior Researcher - Open Research, Co-Lead The Turing Way, Lead RCM Team

Cassandra Gould van Praag
Senior Research Community Manager, E&S

Emma Karoune
Senior Researcher, Research Community Building

André Piza
Senior Research Community Manager, Arts & Humanities

Gabin Wilfried Kayumbi
Senior Research Community Manager, DCE

Anne Lee Steele
Research Community Manager, The Turing Way

Alexandra Araujo Alvarez
Senior Research Community Manager, BridgeAI

Vicky Hellon
Research Community Manager, Turing-Roche Partnership

Let's Git Good:

- **Part 1: What is Git & Github?**
- Github Exercise 1: Finding an Issue and contributing to a project.
  - You will practice: Using issues to contribute and document decisions
- **Part 2: What is open source?**
- Github Exercise 2: Editing a file and making a Pull Request.
  - You will practice: Markdown; contributing, pull requests
- **Part 3: What can we make with Github?**
- Bonus Exercise 3: Make your own website

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Part 1: What is Git & Github?

GitHub: https://github.com/
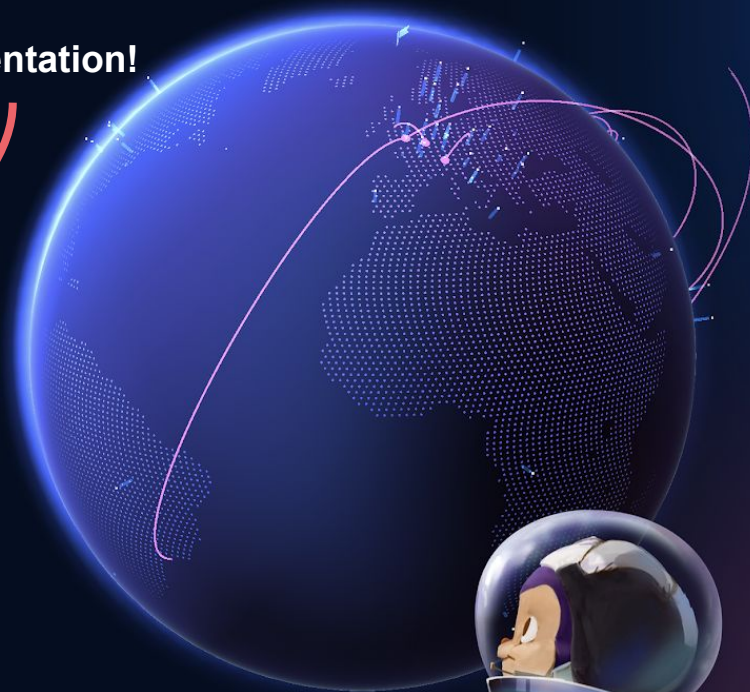
Git & GitHub

Git is one of the most widely used **software** for version control. It is free and open source!

You can use git **on your computer** through the command line or a GUI.

GitHub is a popular **service** for hosting and sharing projects you have been tracking with git.

Flexible and securely control of access to materials, and open publishing.

There are challenges in developing collaborative documents…

What challenges might someone experience while developing collaborative documents?

Collaboration

Working together, often not at the same time or in the same place (distributed)

Challenges:

● People editing the same line
● Incorporating different ideas
● Different versions of the doc
● Time zones

What is version control?

An approach to **recording** changes in a file over time so that you can:

- track history
- review specific changes
- go to earlier/later versions (back up!)

Making distributed collaboration possible

Attribution to contributors

Version control

Transparency & accountability

Reviewing & updating

Make it global

Project management

Key Practices for Collaboration
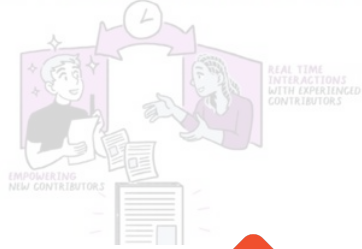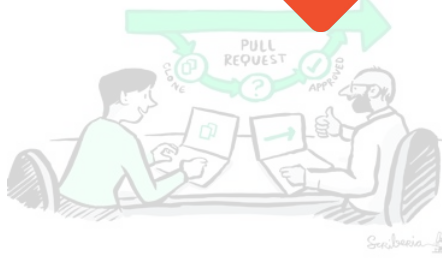
Github Exercise 1: Commenting on an issue.

- Go to the repository we've set up for this session.

- Comment on the issue titled "**Widening Participation - Session 1**" to get started.

Discussion

What do you think are the pros & cons of using a platform like Github?
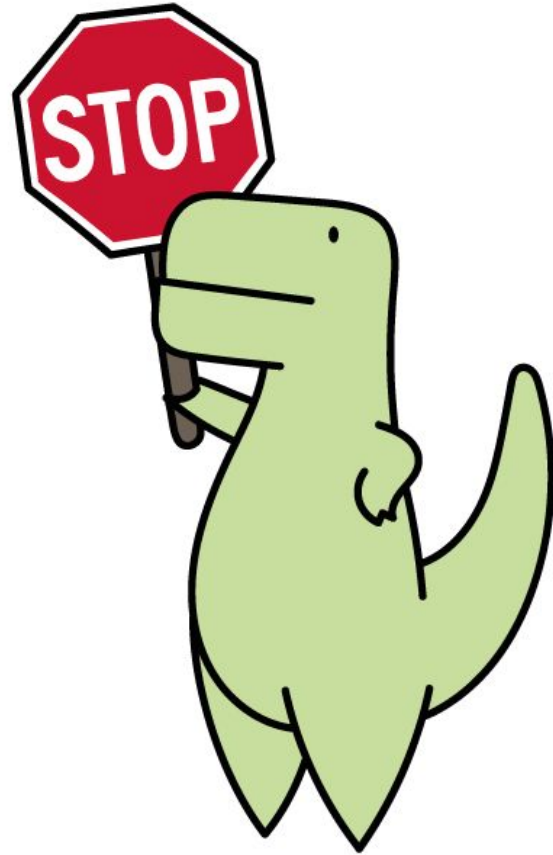
How we will use Github this week

Github organisation:
https://github.com/The-Turing-Summer-Experience

Use this organisation to:

- View the schedule for the week

- Participate in exercises

- Document your progress

Questions?

LoofandTimmy.com

Questions about Git & Github

1. Github is a website that is only used for code and working with codebases.

True or false?

Questions about Git & Github

1. Github is a website that is only used for code and working with codebases.

True or **false**?

Questions about Git & Github

2. Github and Git are the same service.

True or false?

Bonus: Can you explain the difference between the two?

Questions about Git & Github

2. Github and Git are the same service.

True or **false**?

Bonus: Can you explain the difference between the two?

Questions about Git & Github

3. Collaborative practices on Github require version control to make sure everyone is editing the same information.
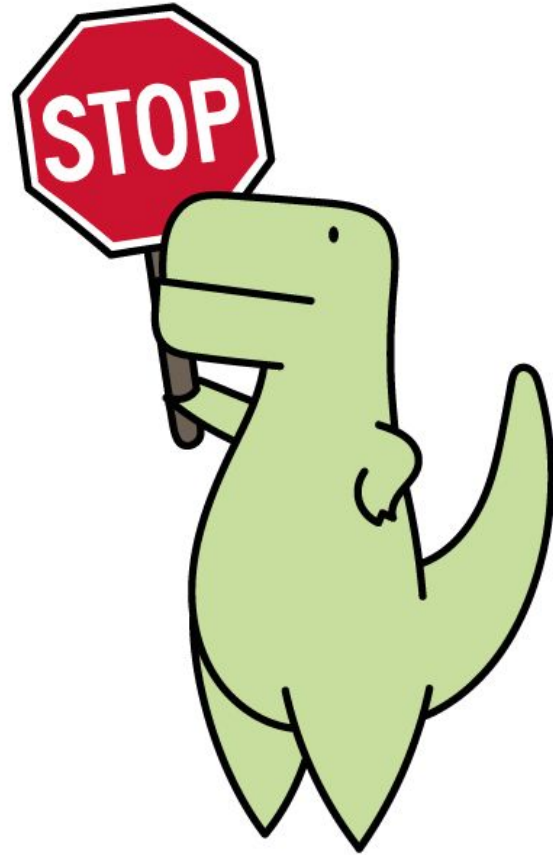

True or false?

Questions about Git & Github

3. Collaborative practices on Github require version control to make sure everyone is editing the same information.

True or false?

Questions?

(now we break for lunch!)
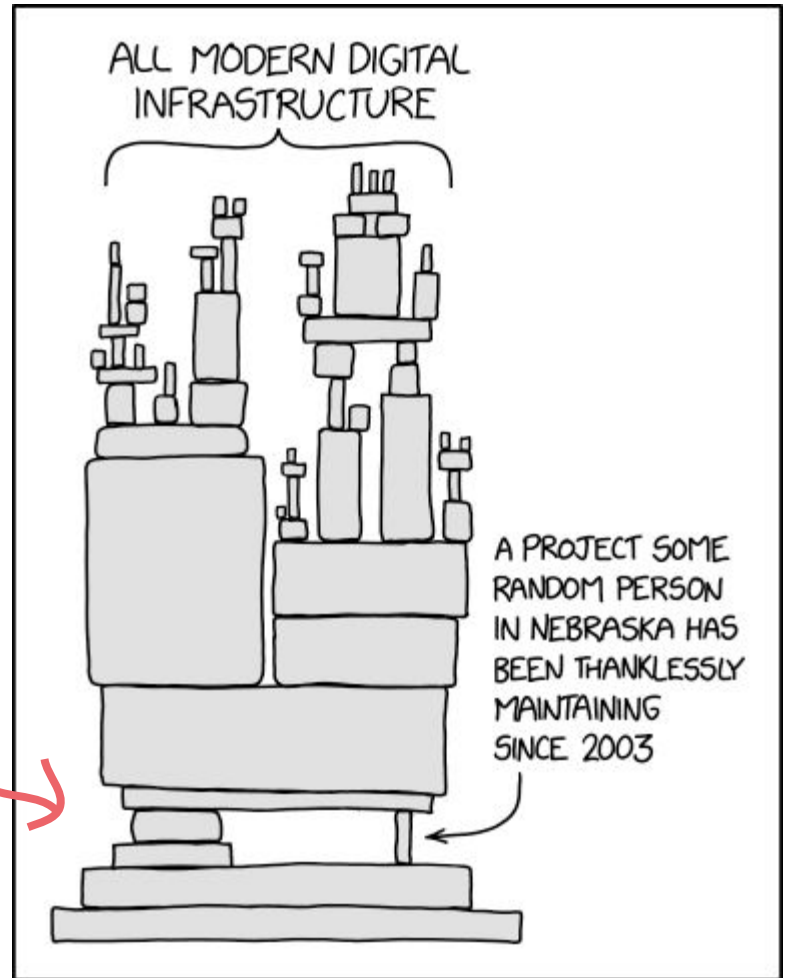
Let's Git Good:

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Part 2: What is open source?

ALL MODERN DIGITAL INFRASTRUCTURE

A PROJECT SOME RANDOM PERSON IN NEBRASKA HAS BEEN THANKLESSLY MAINTAINING SINCE 2003

Open source software!

xkcd, 'Dependency': https://xkcd.com/2347/

"Open source software is software that can be freely used, modified, and shared (in both modified and unmodified form) by anyone."

- <u>GitHub Glossary, Open Source</u>

1. **Ways of working (collaborative practices for working together)**
2. **Technical requirements (like Git & Github)**
3. **Licenses (like creative commons)**

What is open source?

- Roots in free software movement
- Licensing allowed for modifications and derived works
- Developed into free and open source software (F/OSS) movement
- Influenced 'open' movements: open knowledge, open data, open access, open science

Open source collaboration

Licenses and Copyright

Copyright

All Rights Reserved

Re-use requires the permission from the copyright owner

Open Licenses

Some Rights Reserved

Re-use is permitted without permission under the specifications of the license
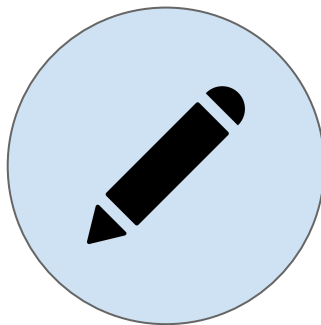
Public Domain

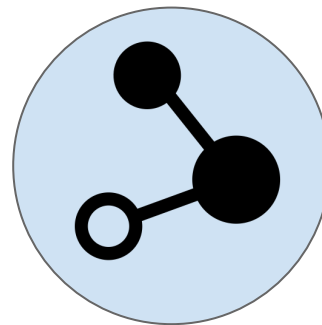No Rights Reserved

May be used without permission

Open Licenses

use
Anyone can use the work for any purpose

modify
Anyone can modify the work

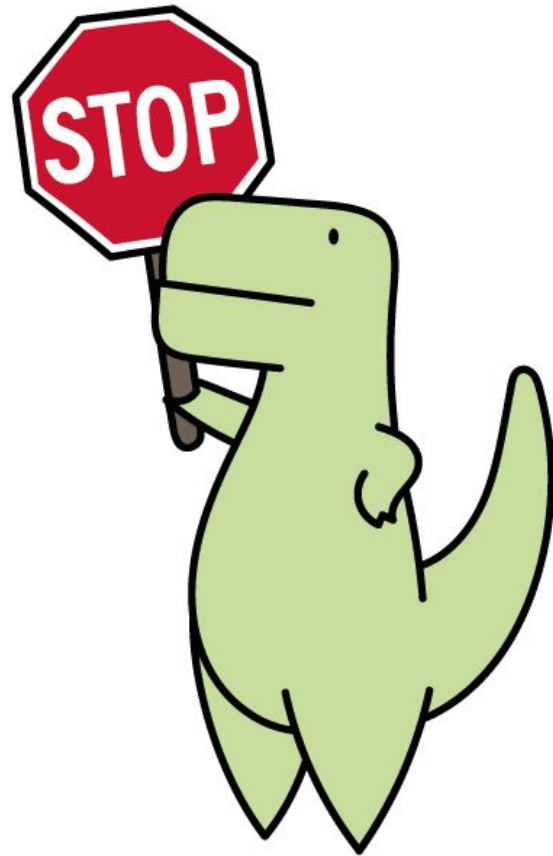### share
Anyone can redistribute both the original and modified work

Examples:
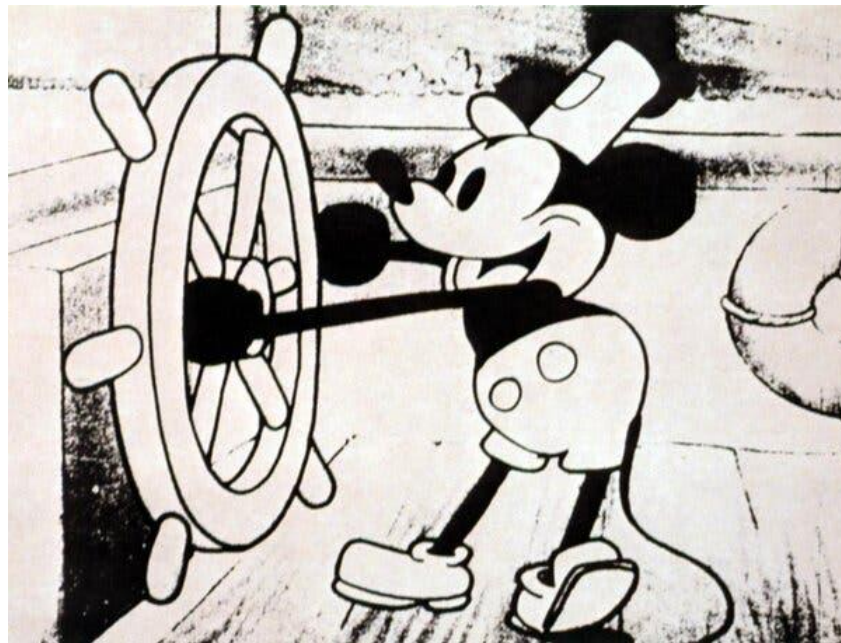## Creative Commons, MIT license

Questions?

LoofandTimmy.com

Exercise

What do you think the project's license is & why?

Exercise

What do you think is this project's license is & why?

Little Simz

Article   Talk

Read   Edit   View history   Tools

🗛 15 languages

Simbiatu "Simbi" Abisola Abiola Ajikawo[1][2] (born 23 February 1994),[2] better known by her stage name **Little Simz**, is a British rapper, singer and actress. She rose to prominence with the independent release of her first three albums: *A Curious Tale of Trials + Persons* (2015), *Stillness in Wonderland* (2016) and *Grey Area* (2019), the last of which was shortlisted for the Mercury Prize and won the awards for Best Album at both the Ivor Novello Awards and the NME Awards.

Her fourth album, *Sometimes I Might Be Introvert* (2021),[3] received widespread critical acclaim, with several publications deeming it the best album of 2021.[4] It went on to win the 2022 Mercury Prize.[5] It also earned her the 2022 Brit Award for Best New Artist and the Ivors Award for Best Hip Hop/Rap Record.[6] Her fifth album, *No Thank You* (2022), w... February...

Outside o...

Early...

Ajikawo ... council e... her child...

Little Simz

Little Simz performing at Openair Frauenfeld, 2019

Background information	
Birth name	Simbiatu Abisola Abiola Ajikawo
Also known as	Simbi, Simz
Born	23 February 1994 (age 30) Islington, London, England
Genres	British hip hop

Little Simz live auf dem Openair Frauenfeld 2019

More details

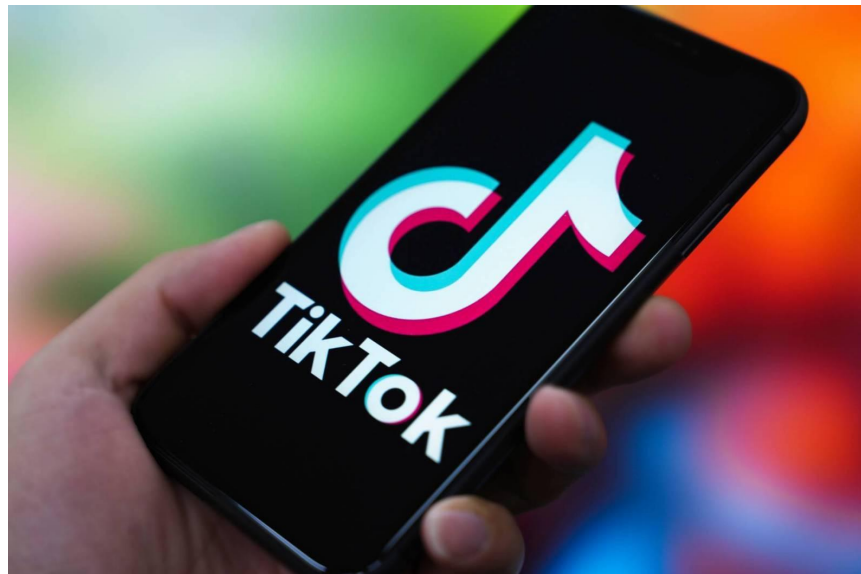👤 Frank Schwichtenberg - This file was uploaded with Commonist.   CC BY-SA 4.0

Licenses and 21st century media

Who Ultimately Owns Content Generated By ChatGPT And Other AI Platforms?

Licenses and
21st century media

What are the ways you would or wouldn't like your work to be used, modified, or shared?
By who?

Open source collaboration → enabled by open licenses

Open Source Exercise

We have 5 case studies of open source projects.

1. What is the project's license?
2. Why do you think this license benefits this project?
3. What platform do they host their code on?

GitHub Exercise 2: Edit a file and make a Pull Request.

1. **Go to repository** 'intro-to-github'
2. Go to the file labelled **introductions in the file 'github-workshop'**
3. Edit the file and write about your **your case study.**
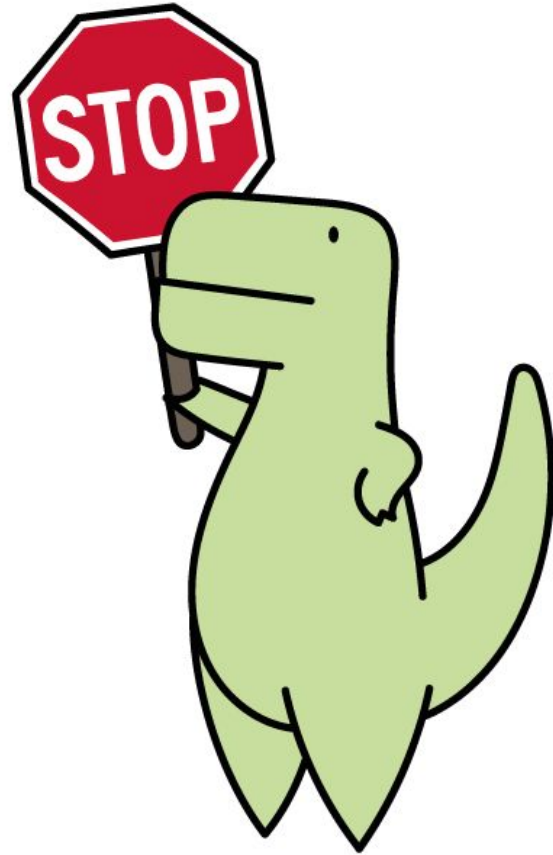4. **Commit** the change and submit a **Pull Request.**

GitHub Exercise 2: Make a Pull Request to the Main Repository

5. A maintainer will review your PR and approve it!
6. Merge your PR when approved.

Questions?

Part 3: Getting good with Github (applied exercises and more!)

GitHub Stretch Exercise 1: Create a new repo

1. Create a repo
2. Edit your README.md
3. Add a license
4. Open an issue

Use your case studies from the previous exercise to create a repository

1. Learn more about your case study project, and instances where it might have been used. Share this on your repository.
2. Find a project that uses the software, project, or principles described in the case study and share it through your repository
3. Have other ideas? (Check with your instructor!)

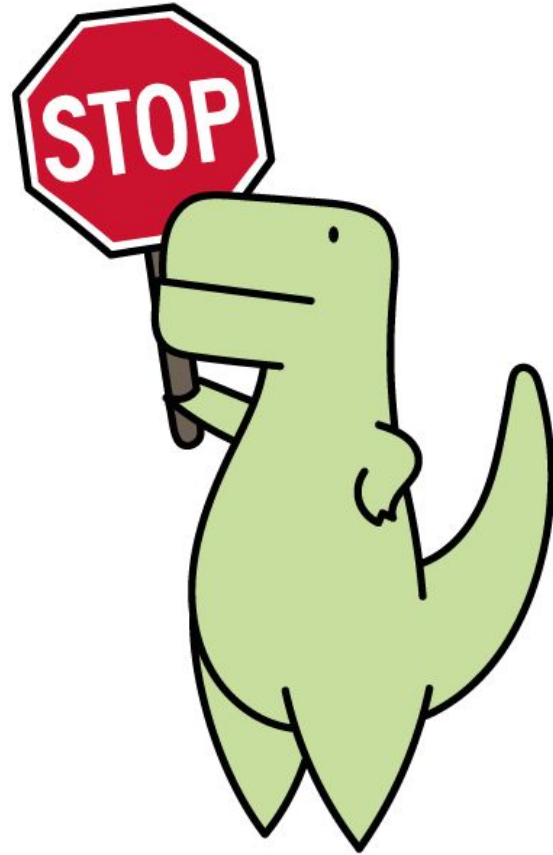# GitHub Stretch Exercise 2: Create a Github webpage

Convert into a Github webpage!

So you've learned how to contribute to an open source project…

Is there anything you would you like to use Github for in the future?

Questions?

LoofandTimmy.com

Acknowledgements

- The Brilliant Club, support staff, Ayesha Magill and Juliette Sexton.

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THANK YOU!!