

Welcome & get ready for the workshop

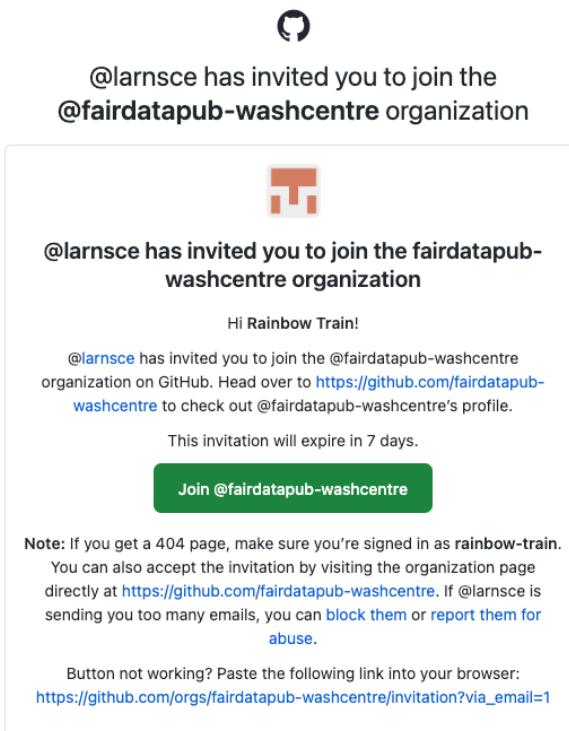
FAIR Data Publishing

Lars Schöbitz

Nov 28, 2024

Email from GitHub?

While we are getting ready, please check for this email from GitHub and **accept the invitation** to join the GitHub organisation for the course. Used Gmail to sign up? Check the folders that aren't your primary inbox (e.g Updates).



Welcome! 🙌

Your turn: About you

Pick an item from the table and think for 1 minute:

What does the item you have picked have to do with the reason for you being here?

Share with us

Take 1 minute each to share with us:

What does the item you have picked have to do with the reason for you being here?

Take a break

Please get up and move! Let your emails rest in peace.



Course structure

- My turn: Lecture segments + live coding
- Our turn: Live coding + follow along
- Your turn: Exercises in pairs

My turn: Lecture segments + live coding

- Instructor writes and narrates code out loud
- Instructor explains concepts and principles that are relevant
- Code is displayed on screen

Our turn: Live coding + follow along

- Instructor writes and narrates code out loud
- Instructor explains concepts and principles that are relevant
- Code is displayed on screen
- Learners join by writing and executing the same code

Your turn: Exercises in pairs

- Two learners work together in pairs
- One person does the typing (the driver)
- One person offers comments and suggestions (the navigator)

Getting help

- please use a pink sticky note to indicate that you have a problem. I will try to address your issue if time permits.
- during your turn exercises, please use a yellow sticky note to indicate when you have completed an exercise.

Platforms and Tools

- Course website
- R
- `tidyverse` R Packages
- `washr` R Package
- Posit Cloud
- RStudio IDE
- Git / GitHub

Course website

fairdatapub-washcentre.github.io/website/

Our turn: Open and bookmark the course website

1. Open a web browser on your laptop.
2. Navigate to the course website: fairdatapub-washcentre.github.io/website/
3. Create a bookmarks folder named fairdatapub-washcentre in your bookmarks toolbar
4. Add a bookmark of the course website to the folder fairdatapub-washcentre



Version Control

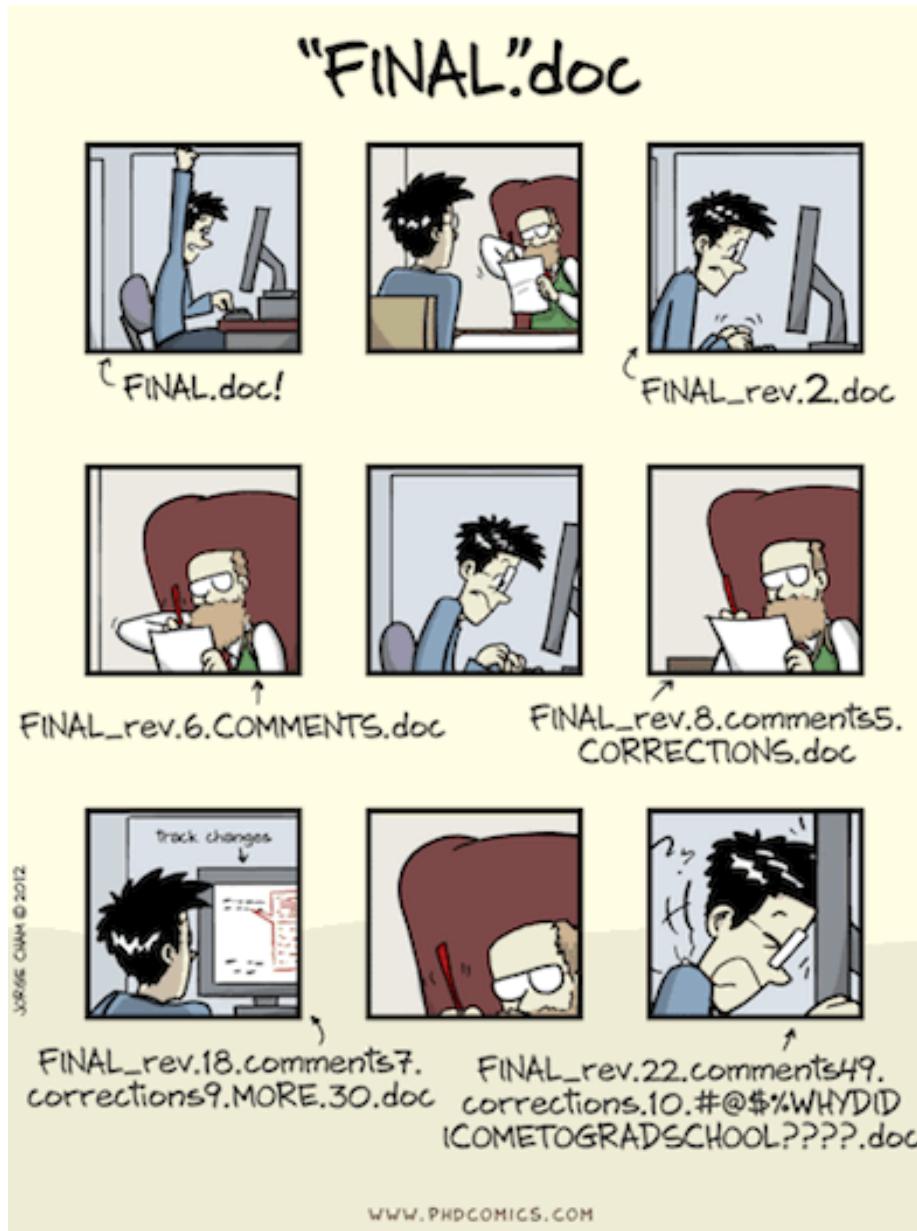
Version Control with Git and GitHub

A way to share files with others, so they can:

- download
- re-use
- contribute

You can view the history of files, and jump back in time to any point.

Why is it useful?



Git and GitHub



- Git is a software for version control
- Created in 2005
- Popular among programmers collaboratively developing code
- Tracks changes in a set of files (directory/folder/repository)
- GitHub is a hosting platform for version control using Git
- Launched in 2008, acquired by Microsoft in 2018, Microsoft for US\$ 7.5 billion
- 100 million Users (20.5 in 2022 alone) ([October, 2023](#))
- Social media for software developers

My turn: A tour of GitHub

Sit back and enjoy!

Your turn: Get a GitHub account (if you haven't yet)

1. Navigate to the course website: fairdatapub-washcentre.github.io/website/
2. In the left-hand menu, click on Module 1, then select am-01: am-01: GitHub Account
3. Follow the instructions
4. Place a yellow sticky note on your laptop when you have completed the assignment

Email from GitHub?

Please check for this email from GitHub and accept the invitation to join the GitHub organisation for the course. Used Gmail to sign up? Check the folders that aren't your primary inbox (e.g Updates).

The screenshot shows an email invitation from GitHub. At the top, there's a small circular profile picture of a person with short hair. Below it, the text reads: "@larnsce has invited you to join the @fairdatapub-washcentre organization". The main body of the email contains the following text:
"Hi Rainbow Train!
@larnsce has invited you to join the @fairdatapub-washcentre organization on GitHub. Head over to <https://github.com/fairdatapub-washcentre> to check out @fairdatapub-washcentre's profile.
This invitation will expire in 7 days."
A green button below the text says "Join @fairdatapub-washcentre".
At the bottom of the email, there's a note: "Note: If you get a 404 page, make sure you're signed in as rainbow-train. You can also accept the invitation by visiting the organization page directly at <https://github.com/fairdatapub-washcentre>. If @larnsce is sending you too many emails, you can [block them](#) or [report them for abuse](#)."
Finally, it says "Button not working? Paste the following link into your browser: https://github.com/orgs/fairdatapub-washcentre/invitation?via_email=1".

Your turn: Create an issue on GitHub

1. Navigate to the GitHub organisation for this course: github.com/fairdatapub-washcentre/↗
2. Bookmark this page and add it to your bookmarks folder.
3. Exchange your GitHub username with your neighbour.
4. Find and open the [website](#) repository.
5. Find the issue tracker in the repository.
6. Open issue #1 Welcome to GitHub
7. Follow the instructions in the issue to introduce yourself.

Posit Cloud

Posit Cloud

https://posit.cloud/spaces/426916/content/6930256

Ds4owd-001 / md-01-exercises

Lars Schöbitz

RAM

R 4.3.1

hello-quarto.qmd

Source Visual B I Normal Format Insert Table

Environment History Connections Git Tutorial

Import Dataset 171 MiB Global Environment

Environment is empty

title: "Hello Quarto"
format: html
editor: visual

Data

Data can be imported from many different sources. In this exercise, we import data from:

(Top Level) Quarto

Console Terminal Background Jobs

R 4.3.1 · /cloud/project/

```
R version 4.3.1 (2023-06-16) -- "Beagle Scouts"
Copyright (C) 2023 The R Foundation for Statistical Computing
Platform: x86_64-pc-linux-gnu (64-bit)

R is free software and comes with ABSOLUTELY NO WARRANTY.
You are welcome to redistribute it under certain conditions.
Type 'license()' or 'licence()' for distribution details.

R is a collaborative project with many contributors.
Type 'contributors()' for more information and
'citation()' on how to cite R or R packages in publications.
```

Files Plots Packages Help Viewer Presentation

New Folder New Blank File Upload Delete Rename More

Cloud > project

	Name	Size	Modified
..			
	.gitignore	40 B	Oct 31, 2023, 11:18 AM
	.Rhistory	0 B	Oct 31, 2023, 11:18 AM
	hello-quarto-complete.qmd	1.2 KB	Oct 31, 2023, 11:18 AM
	hello-quarto.qmd	1.1 KB	Oct 31, 2023, 11:18 AM
	md-01-exercises.Rproj	205 B	Oct 31, 2023, 1:07 PM

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Posit Cloud

Browser tab

<https://posit.cloud/spaces/426916/content/6930256>

Posit Cloud Workspace

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R 4.3.1

RAM

File Edit Code View Plots Session Build Debug Profile Tools Help

Addins

hello-quarto.qmd x

Source Visual B I Normal Format Insert Table

ABC Render Run

Environment History Connections Git Tutorial

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@ fairdatapub-washcentre.github.io/website/ 29

Posit Cloud

https://posit.cloud/spaces/426916/content/6930256

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RStudio IDE Menu

R 4.3.1

RAM

File Edit Code View Plots Session Build Debug Profile Tools Help

Addins

hello-quarto.qmd x

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Global Environment

Environment is empty

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@ fairdatapub-washcentre.github.io/website/ 30

The screenshot shows the RStudio IDE interface with several panes:

- Top Bar:** Posit Cloud tab, URL https://posit.cloud/spaces/426916/content/6930256, and user profile for Lars Schöbitz.
- Left Panel:** A Quarto code editor window titled "Code Editor" containing the following code:

```
---  
title: "Hello Quarto"  
format: html  
editor: visual  
---
```
- Middle Left Panel:** A "Data" section with the text: "Data can be imported from many different sources. In this exercise, we import data from:"
- Bottom Left Panel:** R console output showing R version 4.3.1 (2023-06-16) -- "Beagle Scouts".
- Right Panel:** An "RStudio IDE Menu" window titled "RStudio IDE Menu" (R 4.3.1). It includes tabs for Environment, History, Connections, Git, and Tutorial. The Environment tab shows "Environment is empty". Below it is a file browser pane titled "Files" with a "Cloud > project" folder listing files: ".gitignore", ".Rhistory", "hello-quarto-complete.qmd", "hello-quarto.qmd", and "md-01-exercises.Rproj".
- Bottom Center:** A footer bar with the text "@ fairdatapub-washcentre.github.io/website/"

Posit Cloud

https://posit.cloud/spaces/426916/content/6930256

Lars Schöbitz

R 4.3.1

RStudio IDE Menu

Environment

Git

Code Editor

Data

Quarto

Console Terminal Background Jobs

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Posit Cloud

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Lars Schöbitz

Ds4owd-001 / md-01-exercises

RAM

R 4.3.1

File Edit Code View Plots Session Build Debug Profile Tools Help

Addins

hello-quarto.qmd x

Go to file/function

Source Visual B I Normal Format Insert Table

ABC Render

Code Editor

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Data

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Console Terminal Background Jobs

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Console

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RStudio IDE Menu

Environment History Connections Git Tutorial

Import Dataset 171 MiB

Global Environment

Environment

Git

Files Plots Packages Help Viewer Presentation

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@ fairdatapub-washcentre.github.io/website/

The image shows the RStudio IDE interface with various tools and panels. The top-left quadrant (yellow) contains the Quarto code editor with a file named "hello-quarto.qmd". The top-right quadrant (orange) shows the RStudio IDE menu with tabs for Environment, History, Connections, Git, and Tutorial. The bottom-left quadrant (pink) shows the R Console output for R version 4.3.1. The bottom-right quadrant (green) shows the File Manager, Viewer, and other RStudio toolbars.

Posit Cloud

https://posit.cloud/spaces/426916/content/6930256

Ds4owd-001 / md-01-exercises

RAM Lars Schöbitz

File Edit Code View Plots Session Build Debug Profile Tools Help

Addins

hello-quarto.qmd x Go to file/function

Source Visual B I Normal Format Insert Table

ABC Render

Code Editor

Environment History Connections Git Tutorial

Import Dataset 171 MiB

Global Environment

Environment

Git

Data

Code Editor

Console

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File Manager

Viewer

fairdatapub-washcentre.github.io/website/ 34

Your turn: Log into Posit Cloud with GitHub account

1. Navigate to the course website: fairdatapub-washcentre.github.io/website/
2. In the left-hand menu, click on Module 1, then select **am-02: Posit Cloud**
3. Follow the instructions
4. Place a yellow sticky note on your laptop when you have completed the assignment



GitHub Authorisation

Take a break

Please get up and move! Let your emails rest in peace.



Your turn: Set up a GitHub Personal Access Token

1. Navigate to the course website: fairdatapub-washcentre.github.io/website/
2. In the left-hand menu, click on Module 1, then select am-03: GitHub PAT
3. Follow the instructions
4. Place a yellow sticky note on your laptop when you have completed the assignment

My turn: Interaction with Git & GitHub

watch and enjoy!

Your turn: Interaction with Git & GitHub

1. Navigate to the course website: fairdatapub-washcentre.github.io/website/
2. In the left-hand menu, click on Module 1, then select am-04: Git configuration
3. Follow the instructions
4. Place a yellow sticky note on your laptop when you have completed the assignment

Module 1 documentation

fairdatapub-

washcentre.github.io/website/modules/md-01.html

Wrap-up

Thanks! 🌻

Slides created via revealjs and Quarto:

<https://quarto.org/docs/presentations/revealjs/>

Access slides as [PDF on GitHub](#) ↗

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