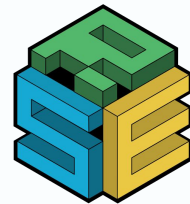




University of
Sheffield



Software lifecycle planning, Licences and dissemination

FAIR² training program

8th November 2024

R. Thomas, K. O'Neill, R. Campbell and J. Adams

Useful information

- This session is recorded and the video will be posted in ORDA
- You can ask questions in the google chat
- Material is available on → github, and will be posted on the RSE website



Who are we?



Romain Thomas

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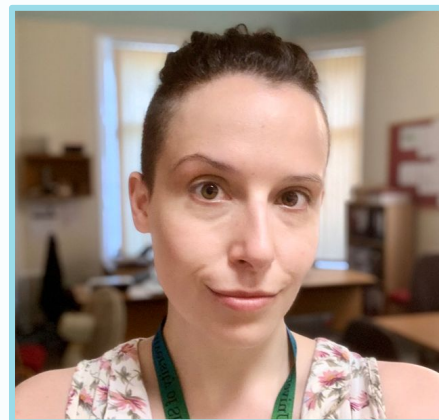
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Ric Campbell

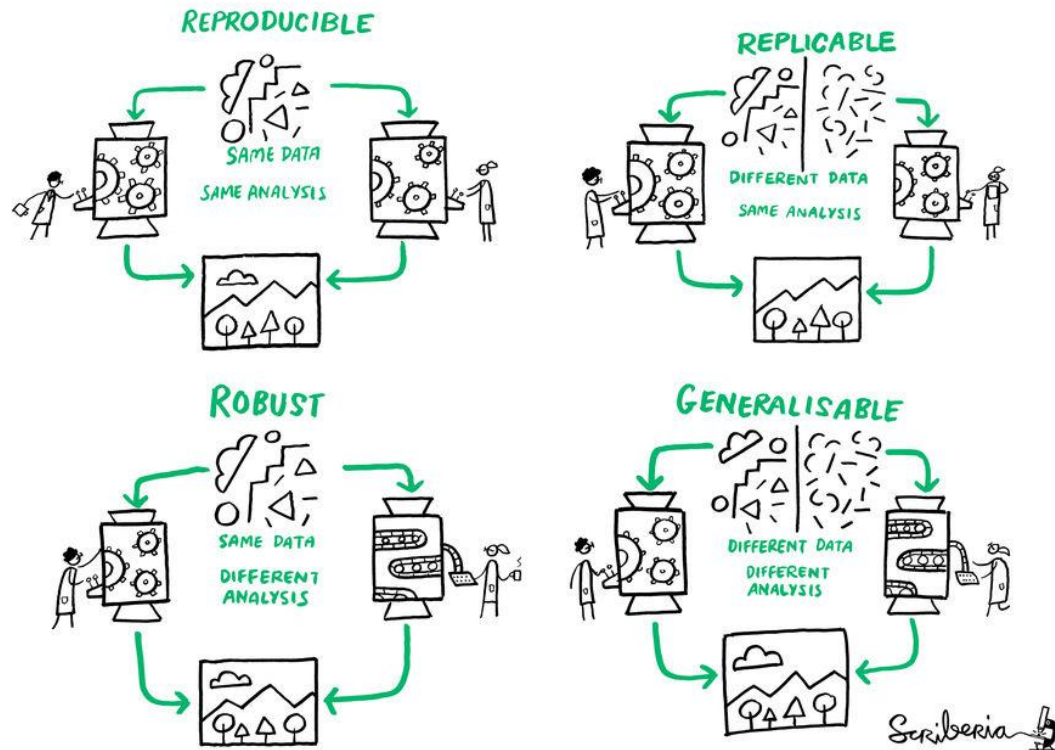
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Research Data Steward

What are we going to talk about?

- FAIR principles: reminders [RT]
- Software Management plan: Planning ahead [RT]
- Copyright and licenses [KO]
- DOIs and Repositories [JA, RC]
- Metadata and Citations [JA, RC]

Reminders: The FAIR principles



Software is an essential part of research

Sharing this important aspect of the research process with others is **vital** for reproducible and open research

Reminders: The FAIR principles

- **Findable** Software, and its associated metadata, is easy for both humans and machines to find
- **Accessible** Software, and its metadata, is retrievable via standardised protocols

Barker *et al. Scientific Data* 9:622 (2022) “Introducing the FAIR Principles for research software” DOI: [10.1038/s41597-022-01710-x](https://doi.org/10.1038/s41597-022-01710-x)

Reminders: The FAIR principles

- **Interoperable** Software interoperates with other software by exchanging data and/or metadata, and/or through interaction via application programming interfaces (APIs), described through standards
- **Reusable** Software is both usable (can be executed) and reusable (can be understood, modified, built upon, or incorporated into other software)

Barker *et al. Scientific Data* 9:622 (2022) “Introducing the FAIR Principles for research software” DOI: [10.1038/s41597-022-01710-x](https://doi.org/10.1038/s41597-022-01710-x)

Reminders: The FAIR principles

“We aspire to open research culture that values a diverse range of contributions and adheres to the FAIR principles to enable the results of our research to be of maximum benefit to society (findable, accessible, interoperable and reusable), whilst also respecting circumstances that limit data sharing (for example, due to issues of privacy, non-consent, contractual agreements, legislation or practicality).”

University of Sheffield, Statement on Open Research

<https://www.sheffield.ac.uk/openresearch/university-statement-open-research>

Reminders: The FAIR principles

*“Open source software ideally should start working toward satisfying the FAIR4RS Principles **when it is initially being developed**”*

Barker et al. *Scientific Data* 9:622 (2022) “Introducing the FAIR Principles for research software” DOI: [10.1038/s41597-022-01710-x](https://doi.org/10.1038/s41597-022-01710-x)

Slight modification for today: ***Initially being ~~developed~~ planned***

What is a software?

“Source code files, algorithms, scripts, computational workflows and executables that were created during the research process or for a research purpose.”

Barker *et al.* *Scientific Data* 9:622 (2022) “Introducing the FAIR Principles for research software” DOI: [10.1038/s41597-022-01710-x](https://doi.org/10.1038/s41597-022-01710-x)

Move to mentimeter....

Feedback

Help us improve!
Give us feedback!



Next sessions:

Git/Github/Gikraken

Monday 18th & Tuesday 19th November 2024

Software Design:

Monday 9th & Tuesday 10th December 2024

Both are in person lectures.