



Welcome to the data literacy short course








A brief overview

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Our agenda for today

Agenda for the day

Time	Title	Description
12:00 - 12:05	 Welcome	
12:05 - 12:10	 Teaser video	About the course
12:10 - 12:15	 Ice breaker	Credits to RISBO
12:15 - 12:20	 The learning journey	
12:20 - 12:40	 Course content	
12:40 - 12:45	 Conclusion & future directions	
12:45 - 13:00	 Feedback moment & discussion	



Teaser video

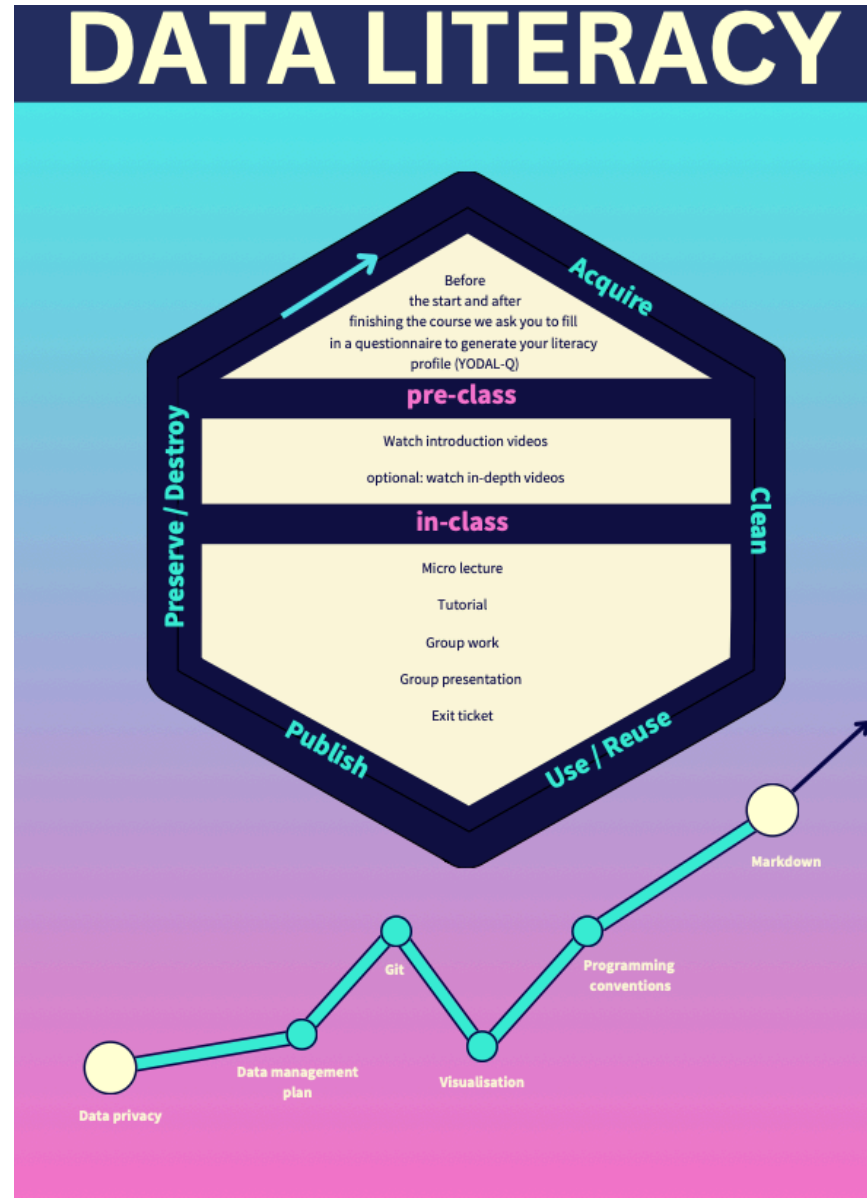
Warming-up with an icebreaker

Question Selector

What is your number?



The learning journey



The data literacy short course

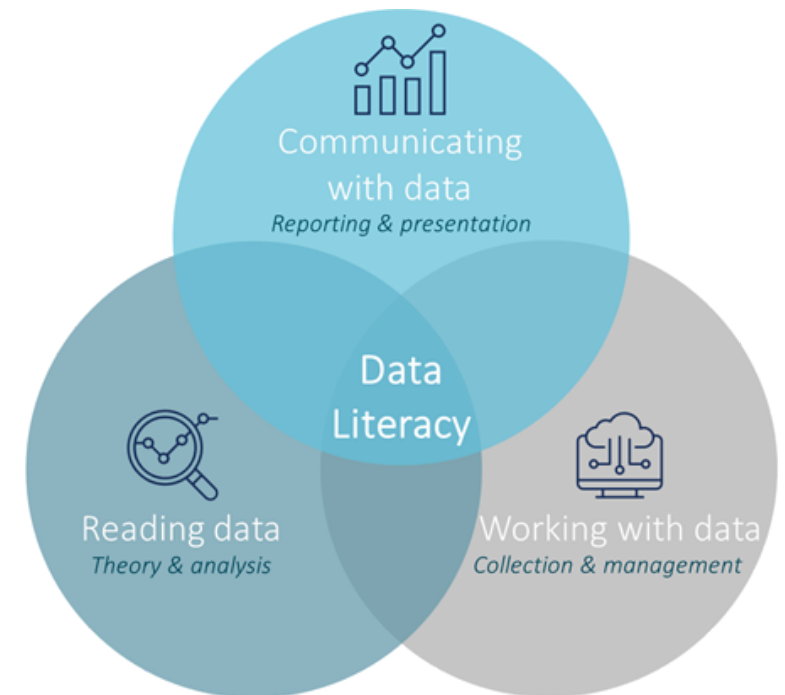


Data literacy

“Understanding and using data effectively”

Key Components:

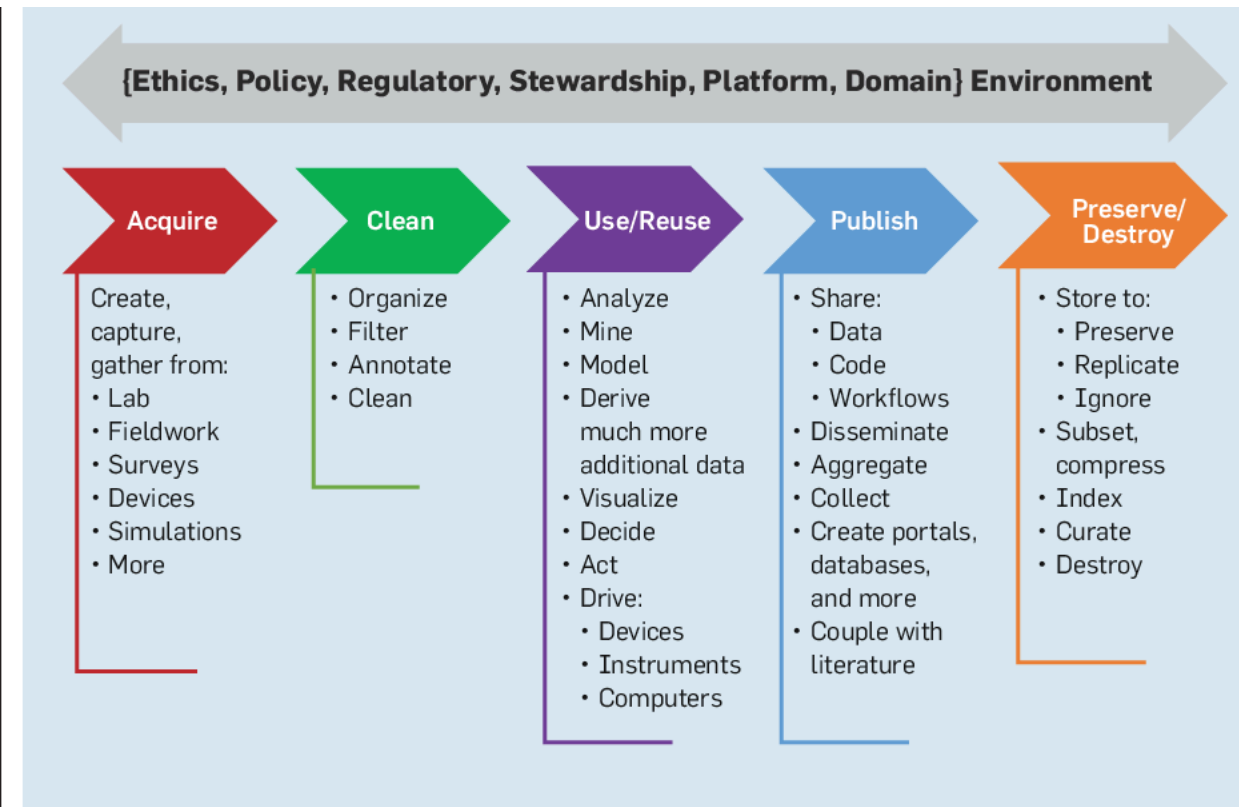
- Data collection
- Analysis
- Interpretation
- Communication



Data Literacy¹

Data life cycle

“Explanation of the data life cycle as a series of steps for data management and utilisation”



Data science life cycle²



Course content: hosting of course materials

Data literacy short course

- As Quarto website
- Accessible for all participants
- Contains all course materials



Course content: teaching methods

- Informative pre-session learning videos
- Micro lectures
- Interactive exercises / tutorials
- Group work
- Regular pitch sessions
- Feedback moments
- Portfolio building



Course content: the website

Short course: Data literacy 2024



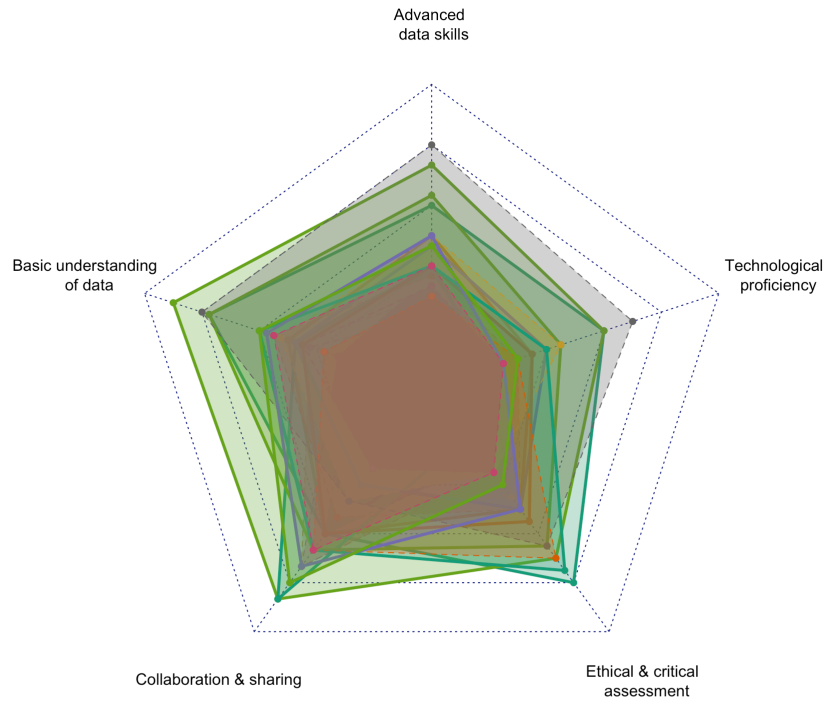
Encountered challenges

- Measuring the impact of initiatives
- Facilitating interdisciplinary collaboration in a diverse audience
- Tailoring the programme to cater to a diverse audience
- Developing engaging and accessible materials for individuals with differing levels of prior knowledge
- Adapting the curriculum to varied learning paces and styles
- Managing differing knowledge levels within groups
- Considering pre-measurement of the YODAL-Q to allocate participants to groups based on prior knowledge for future course iterations
- Offering an online introduction to programming as a prerequisite for course participation

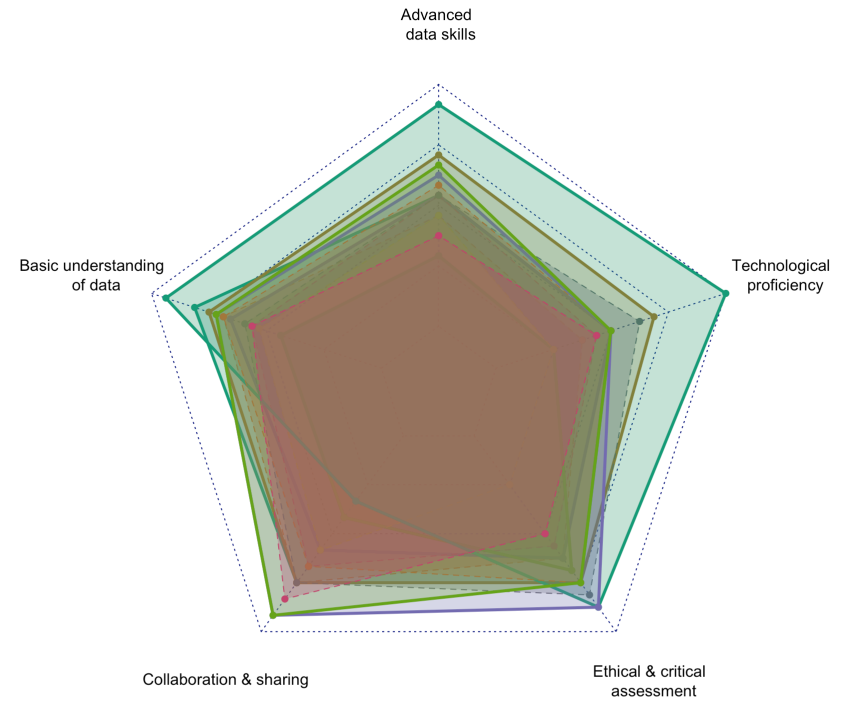
Impact assessment

Perceived data literacy skills

Before the course



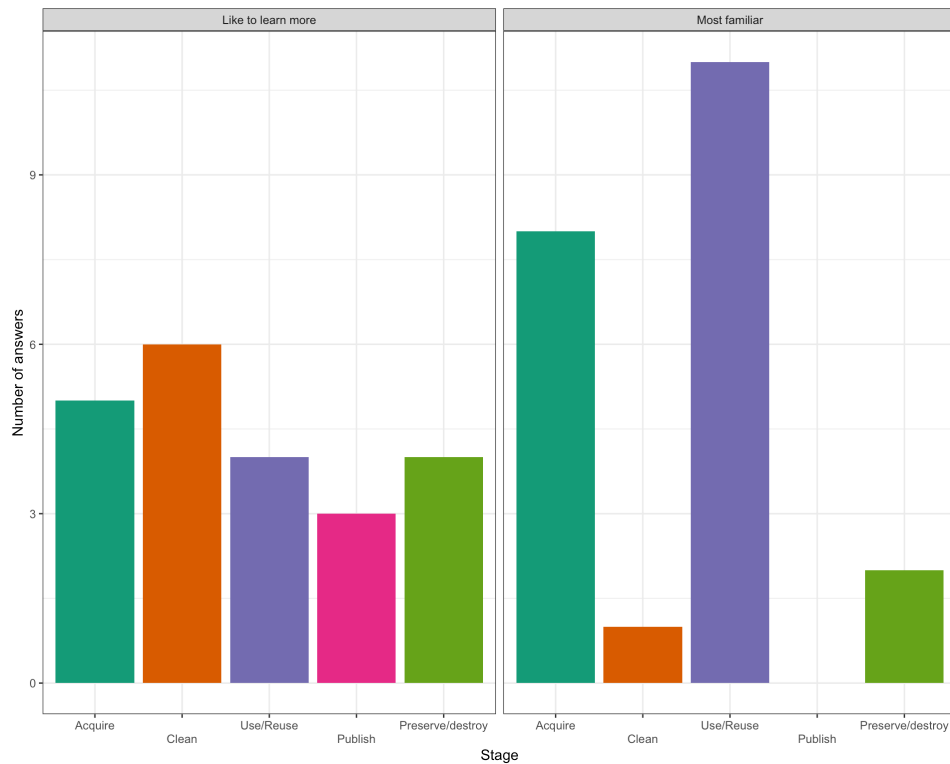
After the course



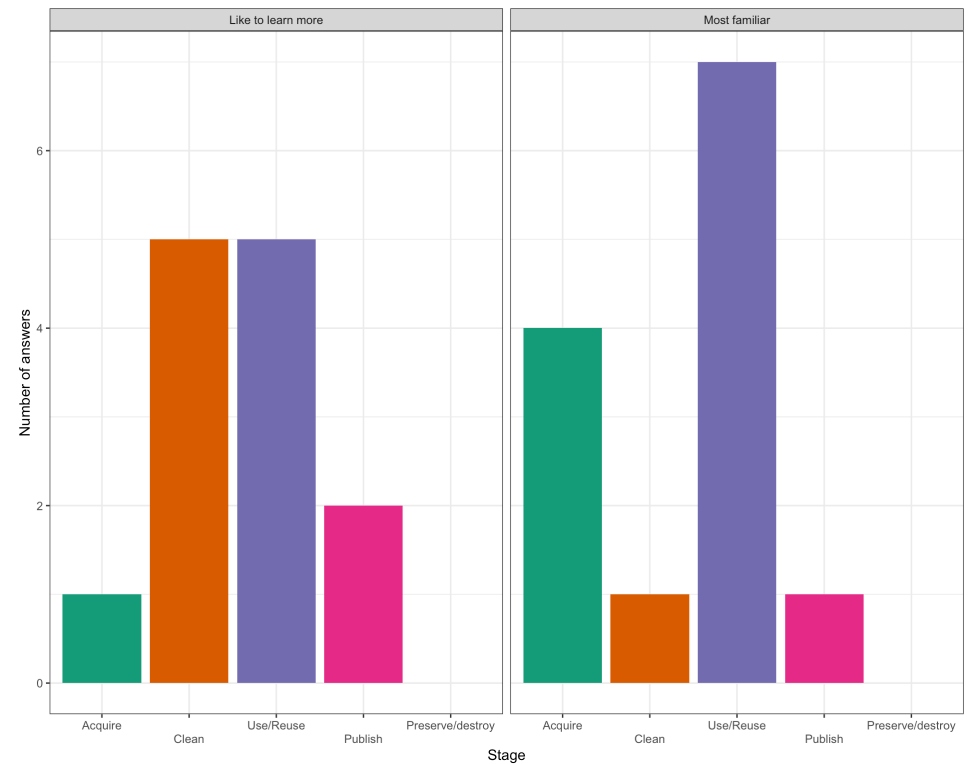
Impact assessment

Data literacy understanding & interest

Before the course



After the course





Conclusion & future directions

- Optimistic about the lasting impact and continued evolution of the course
- Experiences and feedback will inform future iterations of the course for relevance and effectiveness
- Three successors identified to continue enhancing data literacy among students and staff
- Successors committed to making data literacy a standard practice within the curriculum
- Focus on developing additional materials to enrich data literacy education (R beginners course)
- Transition promises sustainability and evolution of the program, adapting to changing needs and maintaining relevance and impact

Feedback moment & discussion

Footnotes

1. Figure taken from [Camelot group](#)
2. Figure taken from [Stodden \(2020\)](#)

