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#### Developing data skills in Malaysian and Singapore librarians via online Library Carpentry

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# Developing data skills in Malaysian and Singapore librarians via online Library Carpentry

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Belinda Sta Maria (Monash University Malaysia)

Dong Danping (Singapore Management University)

#### **LAS-PPM** Joint Conference 2021

# Agenda

**About Library Carpentry** 

About the LC Workshops by Monash University Malaysia

The collaboration

Feedback from the workshop

Learnings & Reflections

# **About Library Carpentry**

- The Carpentries is a global community teaching data science and computational skills to librarians, researchers, industry and government
- Consists of <u>Library Carpentry</u>, <u>Data Carpentry</u> and <u>Software Carpentry</u>.
- Library Carpentry
  - For people working in library and information-related roles
  - Focuses on building software and data skills within the Library and information-related communities
  - How to automate tasks; create, maintain, and analyze data; and better understand the use of software in research



## Two types of Carpentry workshops

#### **Centrally-Organised Workshops**

- Registration & instructor recruitment managed by The Carpentries Workshop Administration Team
- A fee shall be paid if the organiser is not already a Carpentries member

#### **Self-Organised Workshops**

registration & instructor recruitment managed by local organizer

Costs involved in organizing a physical workshop

## Background

- Evolving and expanding role of librarians in research data support & increasing importance of data skills
- The first Library Carpentry workshop in South-East Asia took place in Singapore, jointly organised by LAS and Nanyang Technological University Libraries
- Inspired by the Singapore event, a workshop was planned by Monash University Malaysia for Oct 2020
- It would have been the first Carpentries event in Malaysia

### The original plan

The workshop was planned to be a centrally-organized workshop with a fee:

**Main instructor: Matthias Liffers**, Research Software Skills Specialist, *Australian Research Data Commons (ARDC)* – was invited to come from Perth

**Helper: Dong Danping**, Research Services Librarian, *Singapore Management University (SMU)* – was invited to come from Singapore (Newly certified Carpentry instructor)

**Helper: Belinda Sta Maria**, Data Fluency Librarian, *Monash University Malaysia* (Newly certified Carpentry instructor)





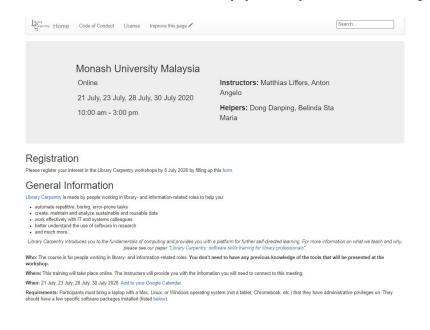


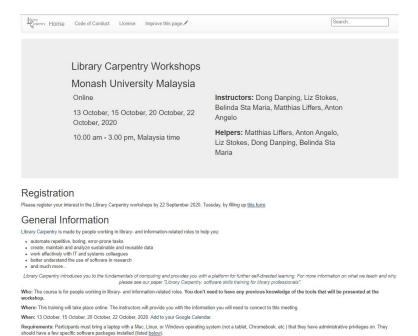
### Then comes COVID-19...

- Plans had to change as Monash University Malaysia Library shifted to online mode
- Switching to online workshop unknowns and challenges
- Support from the lead instructor Matthias Liffers who was supportive and agreed to run the sessions FOC
- Two other experienced Carpentry trainers joined
  - Anton Angelo, Research Data Coordinator, Canterbury University
  - Liz Stokes, Senior Research Data Skills Specialist, Australian Research Data Commons

### What happened next

- From centrally-organized to self-organized
- Administrative support provided by Monash University Malaysia





### Two rounds of workshops

#### **Round 1 (Jul 2020)**

- → 4 half-days from 10am-3pm
- → Open to librarians from the ASEAN region, especially Singapore
- → **50** participants in total
- Conducted mainly by the two experienced instructors, Matthias and Anton

#### **Round 2 (Oct 2020)**

- → 4 half-days from 10am-3pm
- → Open to librarians from Monash Malaysia Library, Monash staff from other departments, and private universities in Selangor and KL
- → 62 participants in total
- → The two newly certified instructors, Belinda and Danping had the opportunity to conduct a significant portion of the training

### For the Librarians by the Librarians

- The workshops were advertised in Library Association of Singapore (LAS) and the IFLA Regional Office for Asia and Oceania
- Thanks to Mr. Edward Lim Jun Hao (Business librarian from University of Connecticut) who
  helped to promote the workshops to Academic Librarians in Singapore and the ASEAN
  region
- Bulk of the participants were from Singapore and Malaysia with some international participants, e.g. from Israel and the United States

# Content of the workshops

Four topics were chosen for the two rounds of Library Carpentry workshops:

Introduction to Data (General expressions)

OpenRefine

Tidy Data

SQL

Lesson materials were openly available online from the Library Carpentries website, reusable under the CC-BY license

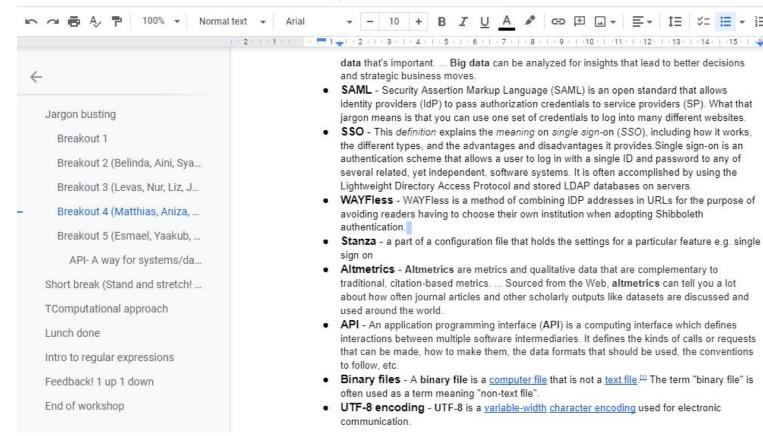
# Challenges

- Shorter attention span for online meetings/trainings
- Carpentry workshops are known for lots of hands-on activities and interactions between trainers and participants
- In an online setting, trainers/helpers cannot walk around the room and help participants with technical issues or hands-on activities

How to maintain the **hands-on approach & interactivity** during online workshops?

## Overcoming the challenges...

- Instead of usual two full-day workshops, the same content is delivered over 4 half-days
- Make use of tools and resources collaborative Google Doc, Zoom chat,
   Carpentry website
- Hands-on activities and discussions in Zoom Breakout Rooms facilitated by helpers/trainers
- Invite participants to talk about and share their work in an open and friendly atmosphere



## Feedback from the workshop

#### "One Up One Down"

- The Carpentry way of getting feedback from participants
- Participants were asked to share one thing they liked and one thing that can be improved
- It is one of the crucial activities for the Library Carpentry workshops
- The informative feedback that we got from participants will help us to improve our delivery of Library Carpentry workshops in the future

## Feedback from the workshop

- More hands-on activities and Breakout Rooms!
- Participants generally enjoyed learning new tools like regular expression,
   OpenRefine, SQL and find them useful
- Learn coding without programming background

### Rewards and Learnings

- New instructors, Danping and Belinda learnt through observing experienced and established Carpentries instructors like Matthias and Anton.
- They gained confidence and competence to organize and lead Library Carpentries workshops in the future
- The group picked up new tools and innovative teaching approaches for online trainings

### Conclusion

- With all the challenges with organising and conducting workshops online, it was a great success as feedback received were mostly positive. Monash University still gets emails enquiring if there are further plans to offer these workshops.
- This collaboration proved that joint events and trainings can be effectively carried out in an online environment and demonstrated the flexibility of international collaborations without crossing the borders.
- To meet the growing interests and demands of data skills in librarians, libraries might consider organizing Library Carpentry workshops and/or getting their staff trained as certified instructors.
- Library Carpentry is also a great resource as all lesson materials are openly available and reusable.

### Collaboration: Library and Librarians

Though relatively a new approach for Carpentry workshops, the collaborative efforts of the organisers and the instructors resulted in two rounds of successful online Library Carpentry Workshops in 2020.

#### **Organisers/Coordinators:**

- Namita Santra, Monash Malaysia Library
- Belinda Sta Maria, Monash Malaysia Library
- Dong Danping, Singapore Management University

#### **Carpentries Instructors:**

- Matthias Liffers (Research Software Skills Specialist), Australian Research Data Commons,
- Anton Angelo (Research Data Coordinator), Canterbury University,
- Liz Stokes, (Senior Research Data Skills Specialist) Australian Research Data Commons.
- Dong Danping (Research Services Librarian), Singapore Management University,
- Belinda Sta Maria (Web Librarian), Monash Malaysia Library.







**Australian Research Data Commons** 



### Thank You

#### Find out more

The Carpentries
<a href="https://carpentries.org/">https://carpentries.org/</a>
Library Carpentry
<a href="https://librarycarpentry.org/">https://librarycarpentry.org/</a>
The Carpentries Handbook
<a href="https://docs.carpentries.org/index.html">https://docs.carpentries.org/index.html</a>
Monash University Malaysia Library
Carpentry Workshop Website
<a href="https://bellsm74.github.io/2020-07-21-monas-hmalaysia-online/">https://bellsm74.github.io/2020-07-21-monas-hmalaysia-online/</a>

https://bellsm74.github.io/2020-10-13-monashmalaysia-online/