

Building and supporting a Digital Literacy Training Community: working together and enriching research

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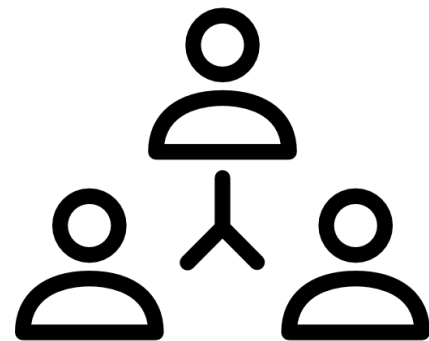
Paula Martinez, NIF/UQ/Characterisation

Carina Kemp, AARNet



Welcome and overview

- What digital skills do researchers want and need?
- Overview of the existing Australian and New Zealand digital skills landscape
- Map pathways for learners and providers to aid efficient and effective training
- Strengthen training community in Australia and New Zealand



Brainstorming!

★ Three questions!

★ One minute each!



Photos by [Robina Weermeijer](#)
(top) and [Josep Castells](#)
(bottom) on [Unsplash](#)

Which digital skills have made
the biggest positive impact on
how you work?

ERRR...



*CAN'T STOP.
TOO BUSY!!*



What digital skills training
is most in demand in
Australia/ New Zealand?

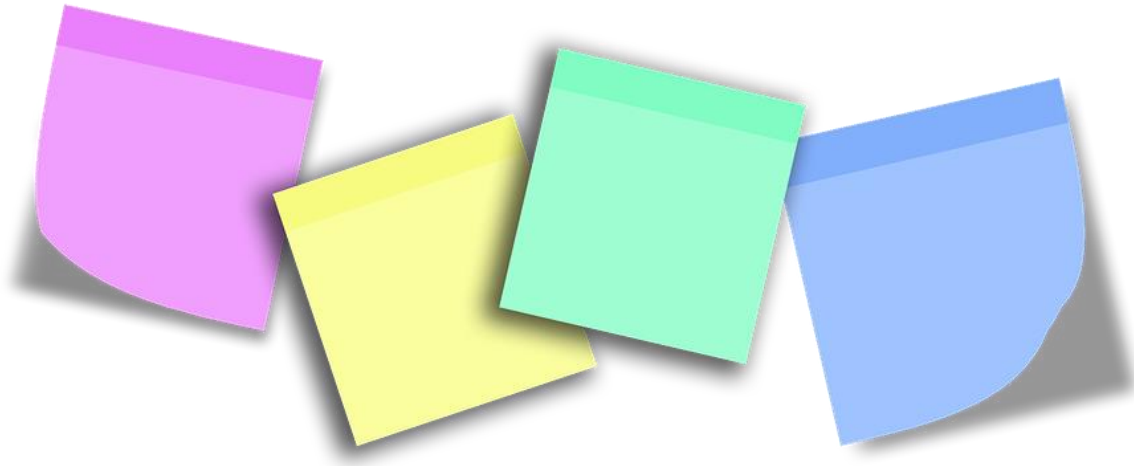


What digital skills training do you wish was higher priority in the research sector?



~ Sharing ~

Lets single out a few of the skills we've written down. Any volunteers want to share?

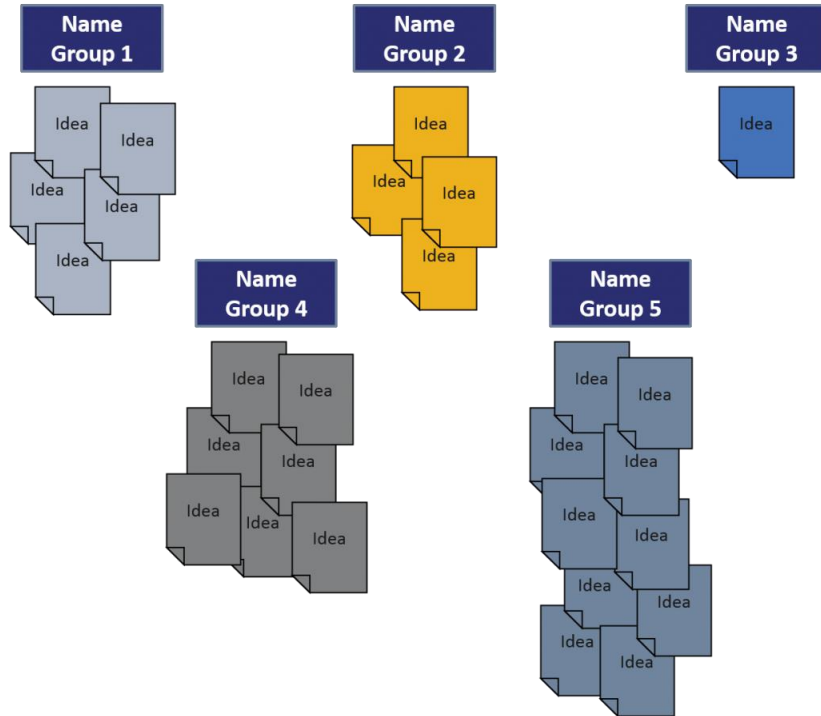


Everyone to stand up and take a look at the skills on the whiteboard and do one of two things:

1. If any of your skills relate to a cluster, stick it up there with the cluster.
2. If any of your skills do not relate to what is already on the board, start a new cluster.

If you start a new cluster, you are the guardian of that cluster -- essentially, just make sure it's tidy and place any repeats together.

What themes have emerged?



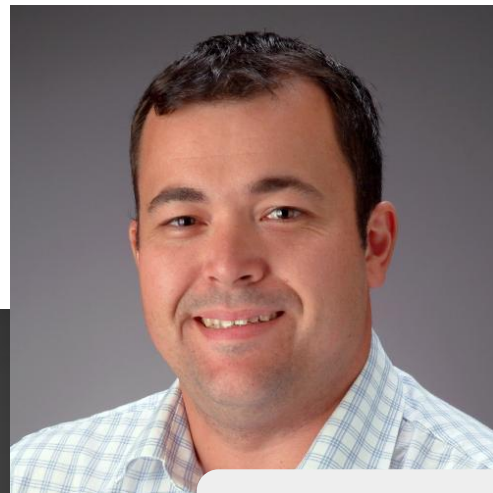
Time to name our clusters!



Paula Andrea Martinez
Australian National
Imaging Facility (NIF)



Alexis Tindall Australian
Research Data Commons



Jonny Flutey Victoria
University of Wellington



Murray Cadzow
University of Otago



Megan Guidry New
Zealand eScience
Infrastructure

Skill development provided by institutions and libraries

Characterisation



**60+ instruments
integrated across
Australia
\$250M+ capital**

Data and images provided by
[MASSIVE.org.au](https://massive.org.au)



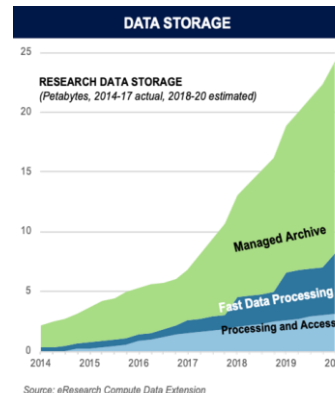
**Computing power
requirements**

**Users from all backgrounds
perform complex routines
that utilise both CPU and
GPU**



**National Computer
infrastructure**

**Virtual desktop
High Performance Computer
power
New needs**



**25+ petabytes
of research storage
Processing and access
Fast data processing
Managed archive
integration**

The Carpentries

Australian eResearch environment:

Who?

- Digital Data and eResearch Platforms: ARDC, AARNet, AAF, National Computing Infrastructure, Pawsey
- State organisations: Intersect, QCIF
- Large institutional programs

What's emerging?

- Interest in collaboration environments - comms, reusable materials, register of trainers, calendar
- Opportunities for co-development of curricula
- Collaboration around advocacy, documentation of training benefits

What's working?

- Skills Summit 2019
- ENRICH Community of Practice
- Series of gatherings at related events

eResearch bodies (NZ)

NeSI serves New Zealand Universities and Crown Research Institutions. We have limited resources so strive to empower local communities

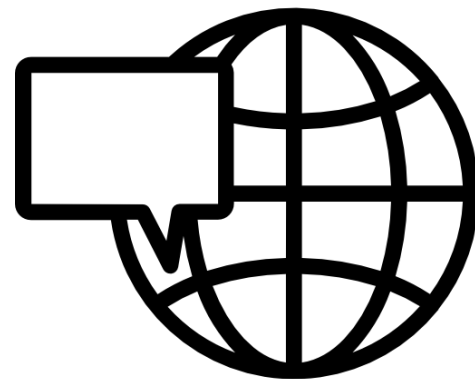
What is working well: Growth in the carpentries. Local events (ResBaz, FigshareFest, Hacky Hours, eResearch conference) connecting with the community

What is emerging: A stronger need/ desire for transparency and increased communication between people that deliver training. Flexibility in training options.



International perspectives (RDA, CODATA etc)

- RDA/ CODATA Summer School for Research Data Science
 - Focus on low and middle income countries (Pretoria 2020)
 - Developed generic curriculum, using open source materials
- Research Data Alliance
 - Interest Groups and Working Groups, facilitating international networks and collaboration
 - RDA Plenary 15: Melbourne, 18 to 20 March!
- FORCE11 Scholarly Communications Institute, UCLA, August
- OECD Global Science Forum Expert Group on Digital Skills for Data-Intensive Science





How do we turn these clusters into pathways?

Mapping skills?

What are the characteristics of a skills map? Who is it for?

Map: @amandinethomas (from instagram)

Irish Digital Skills Framework 'All Aboard'

From [ASCILITE Technology Enhanced Learning Blog](#)





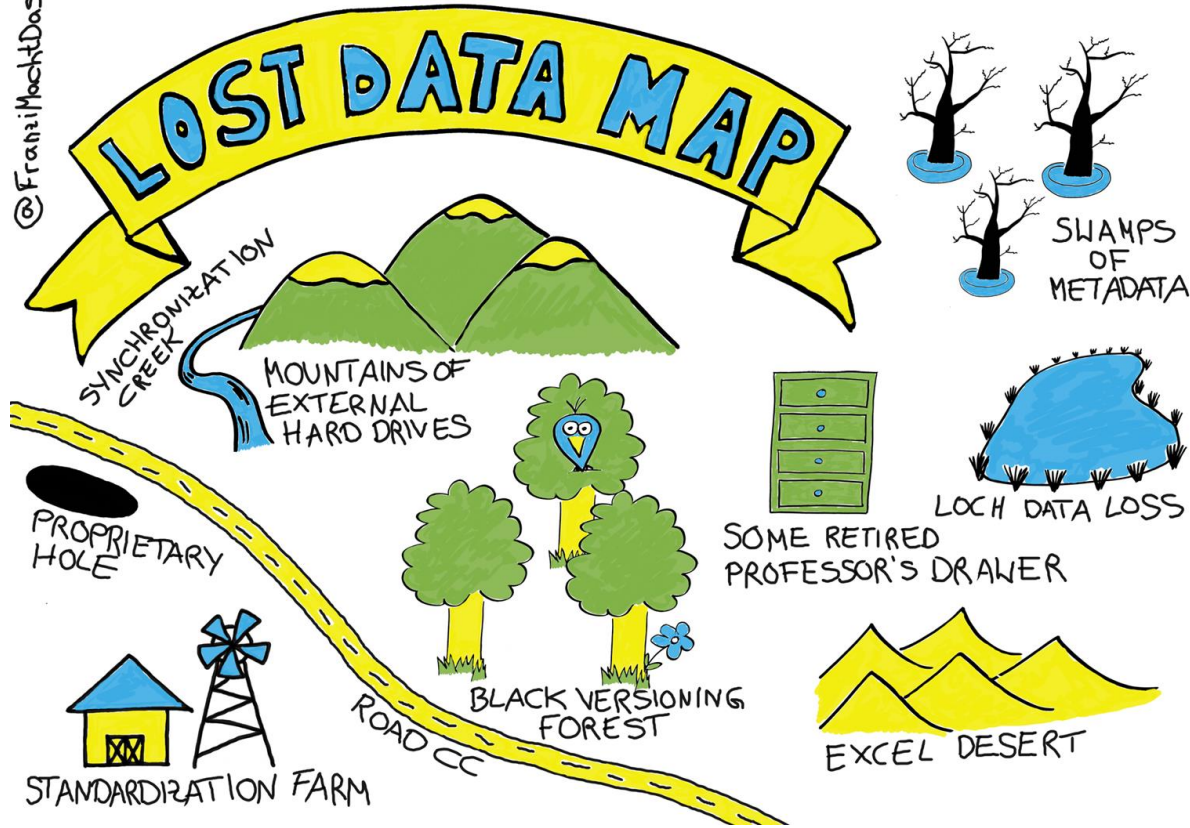
What are skills?

What are competencies?

How do they interact?

Data Skills framework, Open Data Institute

@FranziMachtDas



Franziska Helbing @FranziMachtDas

Capturing Takeaways:

<https://tinyurl.com/NZtrainingBoF>

15th Research Data Alliance Plenary Meeting

Melbourne Convention and Exhibition Centre, MCEC

18-20
MARCH
2020
MELBOURNE
AUSTRALIA



#rdaplenary
www.rd-alliance.org