

Australian Research Data Commons

Reusable

#FAIR101 #ARDCtraining Webinar 8

PRESENTED BY Matthias Liffers



Code of Conduct

To ensure that everyone has a fulfilling learning opportunity, FAIR Data 101 is governed by a Code of Conduct.

You can view the Code at tiny.cc/code-conduct

If you observe a breach of the Code of Conduct, please contact us using the form linked in the Code.



Today's agenda

- A bit of provenance
- FAIR beyond data
 - \circ Software
 - Training materials
- Where to from here?



R1.2: (Meta)data are associated with detailed provenance



We need to talk about spreadsheets





Data + Process = Data



Your first API request

New to Jupyter notebooks? Try Using Jupyter notebooks for a quick introduction.

In this section we're going to learn how to send a request for information to the Trove API.

API requests are just like normal urls. However, instead of sending us back a web page, they deliver data in a form that computers can understand. We can then use that data in our own programs.

We're going to use the Python Requests module to handle our API queries, so let's import it now.

In []: # Make the Requests module available
import requests

Getting an API key

Any requests you make to the Trove API need to be authenticated with a 'key'. For non-commercial projects, you just fill out a simple form and your API key is generated instantly. Follow the instructions in the Trove Help to obtain your own Trove API Key.

Once you've created a key, you can access it at any time on the 'For developers' tab of your Trove user profile.

Copy your API key now, and paste it in the cell below, between the quotes.

```
In []: # This creates a variable called 'api_key', paste your key between the quotes
api_key = ''
# This displays a message with your key
print('Your API key is: {}' format(api key))
```

Your first API

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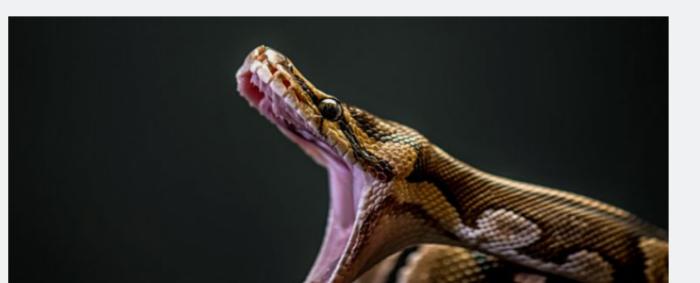


OUT OF SORTS -

Researchers find bug in Python script may have affected hundreds of studies

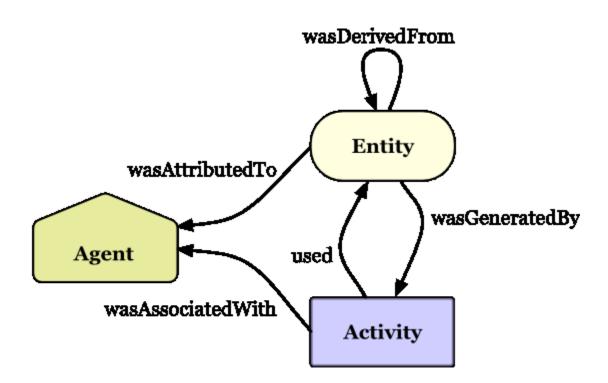
"Willoughby-Hoye" scripts used OS call that caused incorrect measurements on Linux, Mojave

SEAN GALLAGHER - 10/15/2019, 10:17 PM



Going next level - PROV





Copyright © 2013 W3C® All Rights Reserved. Used with permission. <u>https://www.w3.org/TR/2013/NOTE-prov-primer-20130430/</u>

FAIR Software



"software is a special kind of data [...] However, there are also **several significant differences** between data and software as digital research objects"

- Lamprecht *et al*.



https://doi.org/10.3233/DS-190026

Licensing

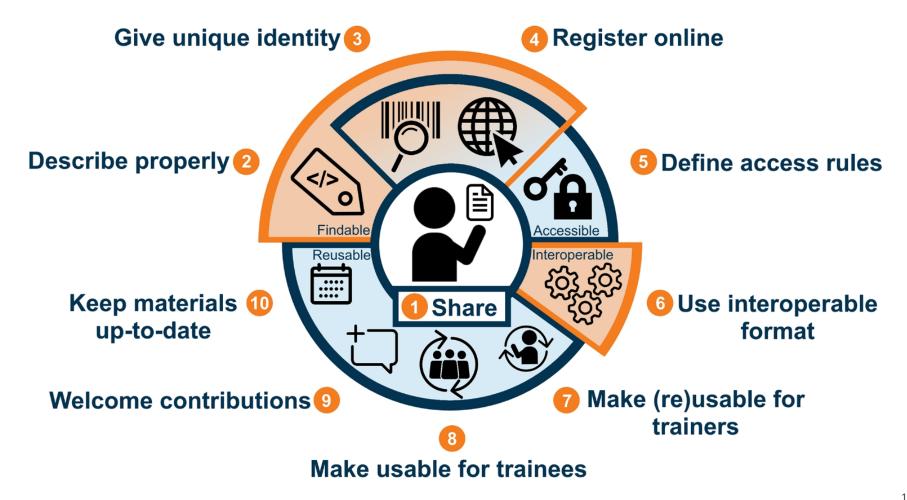


Versioning



FAIR Training material





Wiegers & van Gelder (2019). Illustration for "Ten simple rules for making training materials FAIR" http://doi.org/10.5281/zenodo.3593258

Is FAIR Data 101 FAIR?



Where to from here?



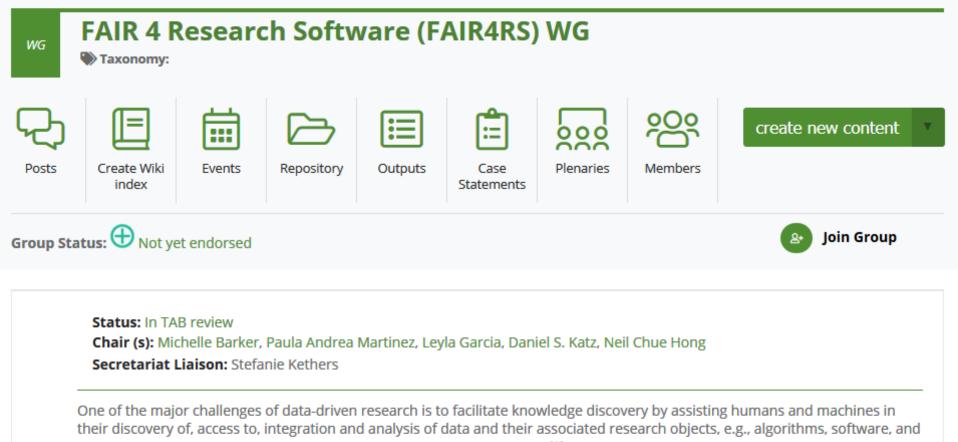


Join the communities that agree on the standards!





Home » Working and Interest Groups » Working Group » FAIR 4 Research Software (FAIR4RS) WG



workflows. To address this, an initial effort to define a "DATA FAIRPORT" ^[1] began in 2014 at the Lorentz workshop and



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Learn practical FAIR skills!



Hacking Heritage: the GLAM Workbench



What's next?

- Activities
- Community discussions
- Quiz
- Stickers!
- Bonus content: FAIR beyond data webinar with CAUL and AOASG
 - Monday 29 June at 10:00 AWST / 11:30 ACST / 12:00 AEST
 - Register at https://ardc.edu.au/events/





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