FAIR data principles

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6 March 2018





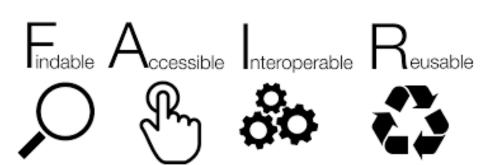






What are the FAIR data principles?

- Drafted in a workshop in 2015
- Nature article and support by <u>FORCE11</u>
- Received international recognition
- Human readable and machine readable
- Technology agnostic
- Discipline independent
- Both the data and the metadata



Findable

F1. (meta)data are assigned a globally unique and eternally persistent identifier.

(e.g. DOIs, Handles, Purls)

F2. data are described with rich metadata.

(e.g. iso19115, dc, Darwin Core)

F3. (meta)data are registered or indexed in a searchable resource.

(e.g. AURIN, TERN, RDA)

F4. metadata specify the data identifier.



Accessible

A1 (meta)data are retrievable by their identifier using a standardized communications protocol.

(e.g. http, OGC data services)

A1.1 the protocol is open, free, and universally implementable.

A1.2 the protocol allows for an authentication and authorization procedure, where necessary.

A2 metadata are accessible, even when the data are no longer available.

Interoperable

I1. (meta)data use a formal, accessible, shared, and broadly applicable language for knowledge representation.

(e.g. NetCDF, rdf representation)

- 12. (meta)data use <u>vocabularies</u> that follow FAIR principles.
- I3. (meta)data include qualified references to other (meta)data.

(e.g. ORCID, DOIs, Grant IDs, RAIDs)



Reusable

R1. meta(data) have a plurality of accurate and relevant attributes.

R1.1. (meta)data are released with a clear and accessible data usage license.

(e.g. Creative Commons)

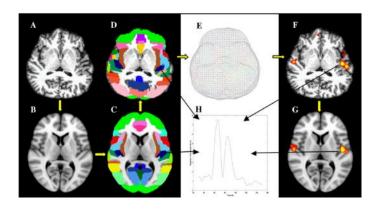
R1.2. (meta)data are associated with their provenance.

(e.g. Capture, Calibration, processing)

R1.3. (meta)data meet domain-relevant community standards.

What makes it different to publications?

- Not always Open
- Not just download
- Using discipline standards (formats/vocabularies)
- Capturing and presenting provenance information

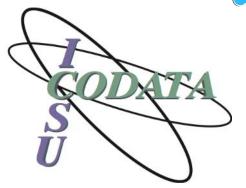


Internationally aligned











More information on the FAIR data principles

For webinars, resources, workshops

See: www.ands.org.au/fair



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ANDS, Nectar and RDS are supported by the Australian Government through the National Collaborative Research Infrastructure Strategy Program (NCRIS).

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