Data, data, everywhere: How many drops to drink? Symposium panel on Scholarly Communication: Changes, Challenges, & Initiatives

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Data, data, everywhere: How many drops to drink?*

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Infrastructure for digital objects

- Social practice
- Usability
- Identity
- Persistence
- Discoverability
- Provenance
- Relationships
- Intellectual property
- Policy
Social practice for research data

- Why cite data?
  - Reproduce research
  - Replicate findings
  - Reuse data

- Why attribute data?
  - Social expectation
  - Legal responsibility

- How to cite data?
  - Bibliographic reference
  - Identifier
  - Link

http://farm2.static.flickr.com/1207/707625876_46aa44851f_o.jpg
Usability of cited objects

- Identify the form and content
- Interpret
- Evaluate
- Open
- Read
- Compute upon
- Reuse
- Combine
- Describe
- Annotate...
Intellectual property

- What can I do with this object?
- What rights are associated?
  - Reuse
  - Reproduce
  - Attribute
- Who owns the rights?
- How open are data?
  - Open data
  - Open bibliography
Policy for digital objects

- Whose policy?
  - Funding agencies
  - Publishers
  - Data repositories
  - Universities
  - Investigators…

- Types of policy
  - What to release
  - What description
  - What citation
  - What attribution
  - Who can describe, annotate…

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http://datalib.ed.ac.uk/GRAPHICS/blue_data.gif
For more on this topic

- Developing Data Attribution and Citation Practices and Standards: An International Symposium and Workshop, Berkeley, CA,
- US CODATA and the Board on Research Data and Information, in collaboration with CODATA-ICSTI Task Group on Data Citation Standards and Practices
- [http://sites.nationalacademies.org/PGA/brdi/PGA_064019](http://sites.nationalacademies.org/PGA/brdi/PGA_064019)