The role of data citation in scholarly communication

IDCC14 Workshop: Data Citation Principles: A Synthesis
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Deluge!!!

Data!

Scientists
Social Scientists
Funding agencies
Policy makers
Librarians
Humanists
Publishers
Internet architects

http://www.guzer.com/pictures/suprise_suprise.jpg
What are data?

Marie Curie’s notebook

NASA Astronomy Picture of the Day

http://www.census.gov/po/p2gis/2000/ma02.gif

http://onlineqda.hud.ac.uk/Intro_QDA/Examples_of_Qualitative_Data.php
Data are representations of observations, objects, or other entities used as evidence of phenomena for the purposes of research or scholarship.

Publications

• If publications are the stars and planets of the scientific universe, data are the ‘dark matter’ – influential but largely unobserved in our mapping process*

• Publications are arguments made by authors, and data are the evidence used to support the arguments.

*CODATA-ICSTI Task Group on Data Citation Standards and Practices, 2013, p. 54
Authorship and Attribution

• Publications
  – Independent units
  – Interpretable by intended audience
  – Authorship is negotiated

• Data
  – Compound objects
  – Interpretable only in relation to other objects
  – Ownership is rarely clear
  – Attribution
    • Long term responsibility: Investigators
    • Expertise for interpretation: Data collectors and analysts
Scholarly credit

- Publications
- Publications
- Publications
- Publications
- Publications
- Awards and honors
- Grants
- Teaching
- Service
- Data

http://blog.startfreshtoday.com/Portals/170402/images/improve-credit-score1.jpg
Data citation as solution to...

- Credit
- Attribution
- Discovery