

Proposed openness metrics

Nichols, D. M., & Twidale, M. B. (2017)



Practical

Keep it simple. A place to start.



Effective

Accounts for copyright restrictions



Broad

Includes book chapters



Preservation friendly

"Open" means "stored for the long-term"



Acce\$\$

Hypothetical cost to access all publications



Actual purchases

Actual money paid to access publications



Openness cost

Money + effort required to make publications open



Open reference

Is a paper open all the way down?



Illegality

We all know it's happening. How much?



Data and code

Beyond the text itself: are the data and code open?

Open conference & journal papers

total conference & journal papers

Open publications

(# **total** publications - # **copyright restricted** publications)

Open conference & journal papers & book chapters

total conference & journal papers & book chapters

Open publications in "long-term" storage

(# **total** publications)

Sum of price to access all non-open publications

Sum of price actually paid by others to access author's publications over a defined period

Sum of access fees and paid fees, and **effort required** to make publications open

Proportion of all cited works of a paper that are **themselves open access**

Proportion of author's publications that are available **in contravention of copyright agreements**

Open data and code sets in **curated repositories**

total relevant data and code sets

[Link to paper](#)