Altmetrics and impact

Euan Adie

COPE, 17th April 2015



Getting credit where credit is due

Altmetrics and impact

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This talk

- Why are altmetrics of interest to authors & institutions?
- How are they used
- Things we've learned
- How are they abused

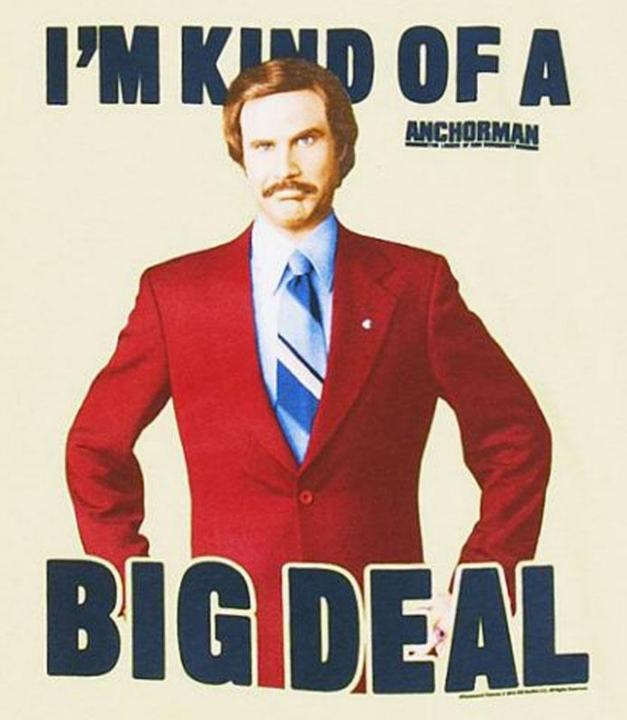
Several different tools available







You say tomato...



But there is another driver

Bad news for researchers?

- You're under pressure to justify
 - Yourself
 - Your research
- Both internally and externally

Good news for researchers?

Funders and institutions are increasingly looking for or considering other types of:

- Impact
- Research output
- Contribution

The Evaluation Gap

http://citationculture.wordpress.com/



Altmetrics

Take a broader view of impact to help give credit where credit is due

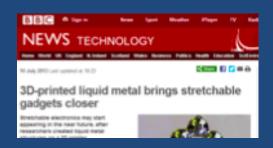
Example: social & mainstream



Blogs, reviews,

GOMING Publishy of 1000, PubPeer, MathOverflow and the world's largest curated index of academic blogs.





Newspapers & Magazinas, both mainstream and niche.



Social media



brant faircloth @brantfaircloth · Apr 8

What makes me happiest about our bird paper (plosone.org/article/metric...) is that largest % of readers are general public altmetric.com/details.php?ci...

View summary







Example: policy documents



World Health Organization (WHO)

"WHO policy on collaborative TB/HIV activities: guidelines for national programmes and other stakeholders"





Intergovernmental Panel on Climate Change (IPCC)

"Managing the Risks of Extreme Events and Disasters to Advance Climate Change Adaptation"



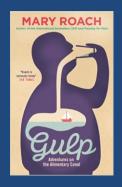


National Institute for Health and Care Excellence (NICE)

"Delivering Accident Prevention at local level in the new public health system: Road safety policy and links to wider objectives"



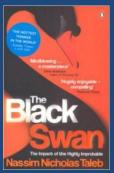
Example: popular non-fiction



Gulp

"'America's funniest science writer' (Washington Post) takes us down the hatch on an unforgettable tour."

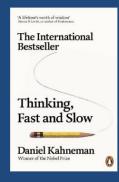




The Black Swan

"Since being published in 2007, as of February 2011 has sold close to 3 million copies. It spent 36 weeks on the New York Times Bestseller list list; 17 as hardcover and 19 weeks as paperback. It was published in 32 languages."



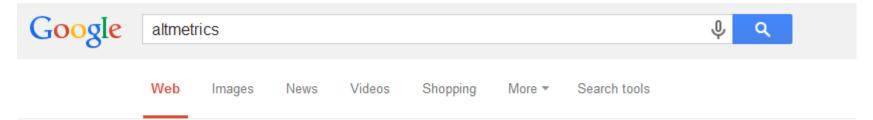


Thinking Fast and Slow

"The basis for his Nobel prize, Kahneman developed prospect theory to account for experimental errors he noticed in Daniel Bernoulli's traditional utility theory."



How people use altmetrics data



About 536,000 results (0.29 seconds)





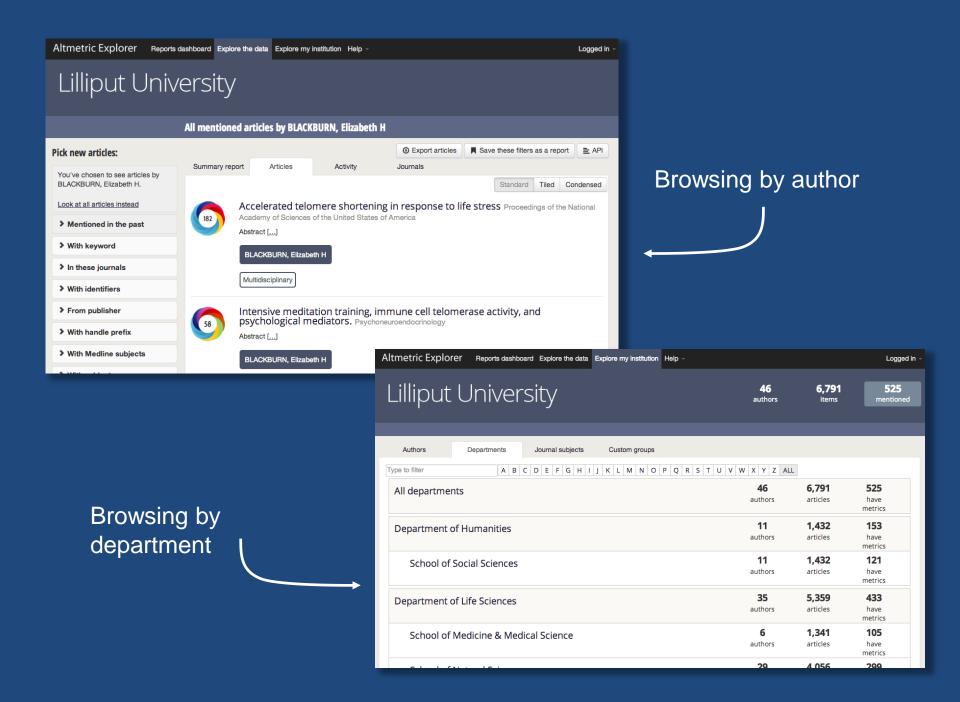


RESEARCH & INNOVATION

- To gauge the overall popularly of the article
 - 87% of respondents strongly agreed or agreed
- To discover and network with researchers who are interested in the same area of their work
 - 77% strongly agreed or agreed
- To understands a paper's influence on the scientific community
 - 66% strongly agreed or agreed
- To determine what journal to submit their next paper to
 - 60% of respondents strongly agreed or agreed
- To determine areas of research to explore
 - Only 37% of respondents strongly agreed or agreed







Some things we've learned

More complementary than alternative to really

Alt metrics

judged (unfortunately)

Implies an emphasis on the quantitative that doesn't actually exist.

Metrics makes people think of being



Do Altmetrics Work? Twitter and Ten Other Social Web Services

Mike Thelwall^{1*}, Stefanie Haustein², Vincent Larivière³, Cassidy R. Sugimoto⁴

1 School of Technology, University of Wolverhampton, Wolverhampton, United Kingdom, 2 École de bibliothéconomie et des sciences de l'information, Université de Montréal, Montréal, Québec, Canada and Science-Metrix Inc., Montréal, Québec, Canada, 3 École de bibliothéconomie et des sciences de l'information, Université de Montréal, Montréal, Québec, Canada and Observatoire des sciences et des technologies, Centre interuniversitaire de recherche sur la science et la technologie, Université du Québec à Montréal, Montréal, Québec, Canada, 4 School of Information and Library Science, Indiana University Bloomington, Bloomington, Indiana, United States of America

People are very keen to relate it to citations! Scholarly altmetrics correlate with citations. Public engagement / policy & practice altmetrics don't.





How people (ab)use altmetrics data

"The more any quantitative social indicator (or even some qualitative indicator) is used for social decisionmaking [...] the more apt it will be to distort and corrupt the social processes it is intended to monitor."

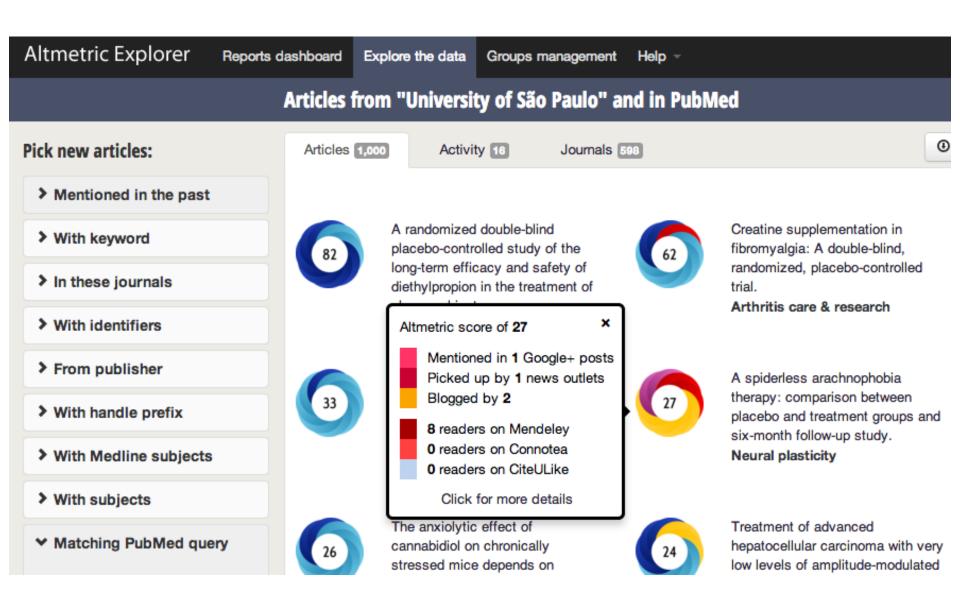
Donald Campbell, 1976



Quantifying attention



Why score at all? To allow ranking





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CMAJ December 12, 2000 vol. 163 no. 12

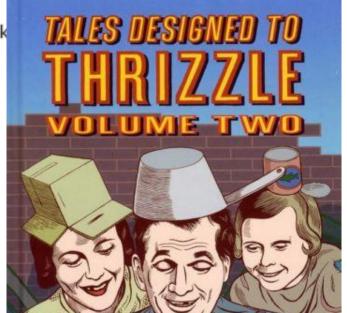


Research of the Holiday Kind

Pathology in the Hundred Acre Wood: a neurodevelopmental perspective on A.A. Milne

Sarah E. Shea, Kevin Gordon, Ann Hawkins, Janet Kawchuk Donna Smith





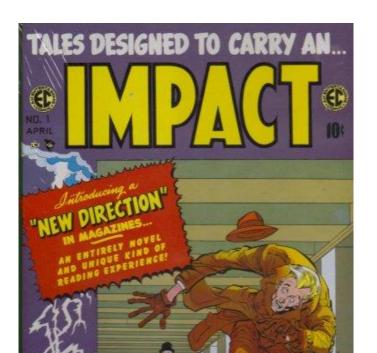
THE LANCET

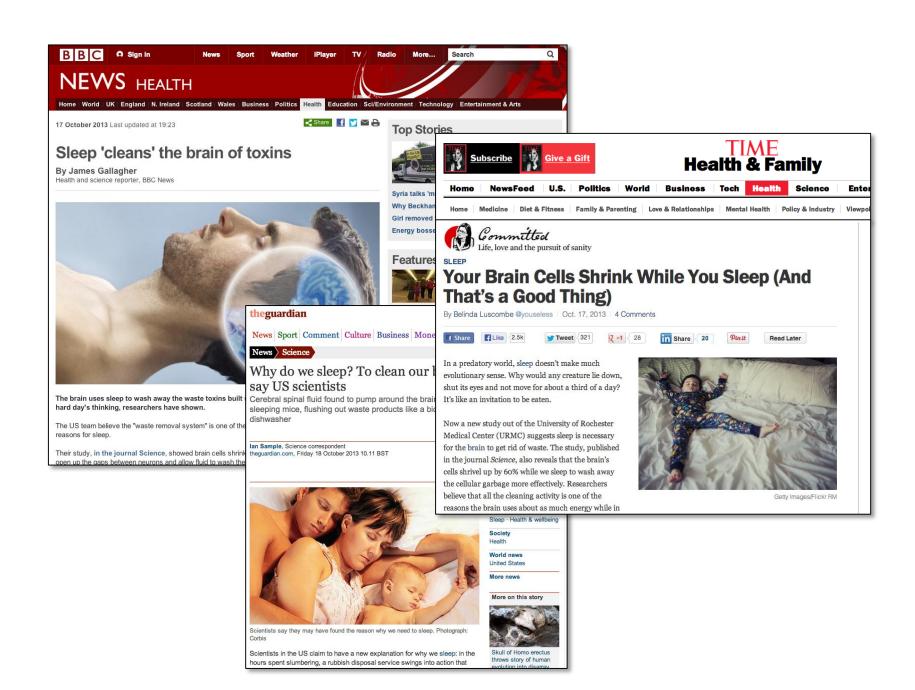


Effect of daily aspirin on long-term risk of death due to cancer: analysis of individual patient data from randomised trials

Prof <u>Peter M Rothwell</u> FMedSci <u>a</u> <u>FMEM</u>, Prof <u>F Gerald R Fowkes</u> FRCPE <u>b</u>, Prof <u>Jill FF Belch</u> FRCP <u>c</u>, <u>Hisao Ogawa</u> MD <u>d</u>, Prof <u>Charles</u> <u>P Warlow</u> FMedSci <u>e</u>, Prof <u>Tom W Meade</u> FRS <u>f</u>







Miniature Donkey Talk

The TALK of the donkey world



In This Issue:



Recumbent **Cyclist News**





Inside

Rosen Selay Potats ... 17



The Volae Tour The Ethics is harrown finding a telescoperturing, lighter weight,

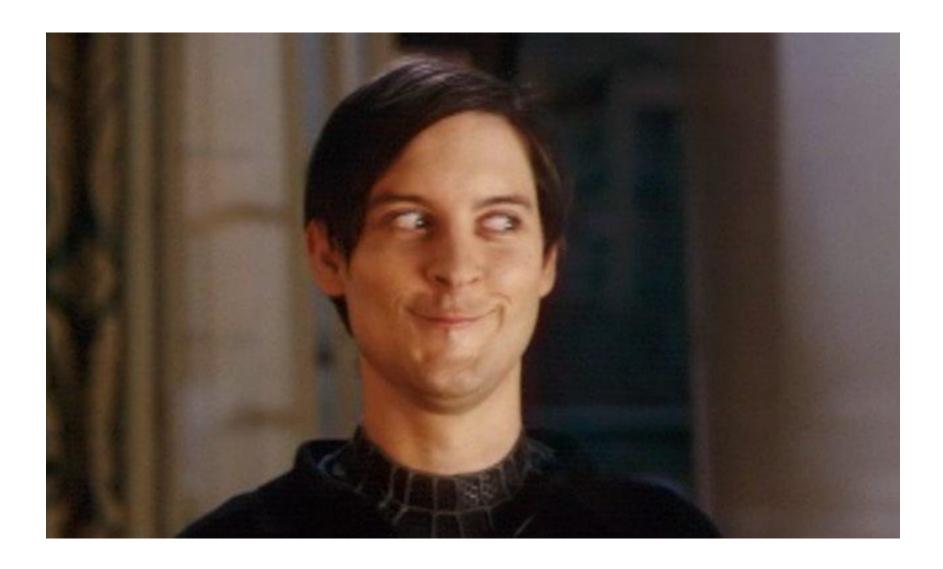
PERCENCE.

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Gaming the system



Gaming?

• Alice asks her friends to retweet her.

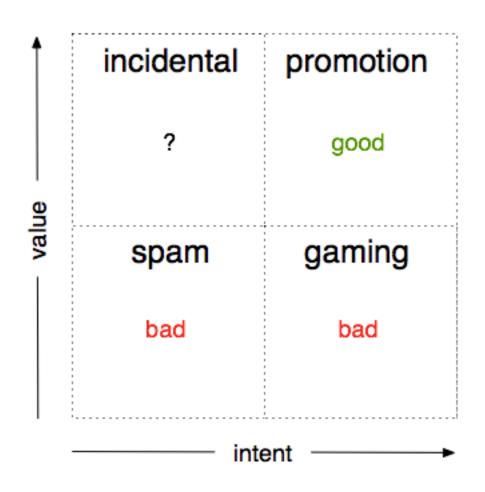
Gaming?

 Bob likes Alice's paper. He shares it with all his friends and asks them to retweet him.

Gaming?

Alice pays \$5 for 100 retweets

Four types of suspicious attention





Microcystis Aeruginosa and Underwater Light Attenuation in a Hypertrophic Lake (Hartbeespoort Dam, South Africa)

Twitter

Score

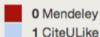
Demographics

So far Altmetric has seen 34 tweets from 1 accounts.

Mentioned by



Readers on



0 Mendeley

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Hartbeespoort Dam @Hartbeespoort Dam I am 97.588% full. Microcystis aeruginosa and underwater light attenuation in a hypertrophic... http://t.co/Ni3up8AfU0 #harties

23-Mar-2013



Hartbeespoort Dam @Harties dam

I am 98.984% full. Microcystis aeruginosa and underwater light attenuation in a hypertrophic... http://t.co/3RyYnnha #harties

08-Feb-2013



Hartbeespoort Dam @Harties dam

I am 97.610% full. Microcystis aeruginosa and underwater light attenuation in a hypertrophic... http://t.co/3RyYnnha #harties

14-Feb-2013



Hartbeespoort Dam @Harties dam 93 followers

I am 97.074% full. Microcystis aeruginosa and underwater light attenuation in a hypertrophic... http://t.co/3RyYnnha #harties

15-Feb-2013

What can be done?

- Make underlying data available, visible
- Only track sources that can be audited
 - Some interesting sources fail this test e.g. downloads and private Facebook activity
- Automatically flag up suspicious activity, then manually curate
- Have a standard process in place to deal with gamed articles, notify the journal

Thanks for listening!

- euan@altmetric.com
- @altmetric