

Altmetrics:

The next step for open access

@jasonpriem

SPARC Japan Seminar 2013
Tokyo, Japan

**Open access is
essential.**

**But it's only the
first step.**

Online journals are
paper journals
delivered by **faster**
horses.

**Instead of moving
paper products
faster, we can create
web-native science.**

conversation

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data



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Dataset

When using this data, please cite the original article as follows:

Reader SM, Hager Y, Laland KN (2011) The evolution of social learning in primates. *Proceedings of the Royal Society B* 366(1567): 1017-1022. doi:10.1098/rspb.2011.0181

Additionally, please cite the Dryad data package as follows:

Reader SM, Hager Y, Laland KN (2011) Data from: The evolution of social learning in primates. doi:10.5061/dryad.t0q94

Dryad File Identifier	doi:10.5061/dryad.t0q94
Description	Please refer to Reader et al. (2011)
Keywords	social learning, behavior, primates
Date Deposited	2012-11-14T18:00:48Z
Scientific Names	Primates
Contained in Data Package	Data from: The evolution of social learning in primates



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Effect of i.t. administration of PD98059 on ERK phosphorylation in Vc neurons and nocifensive behavior.

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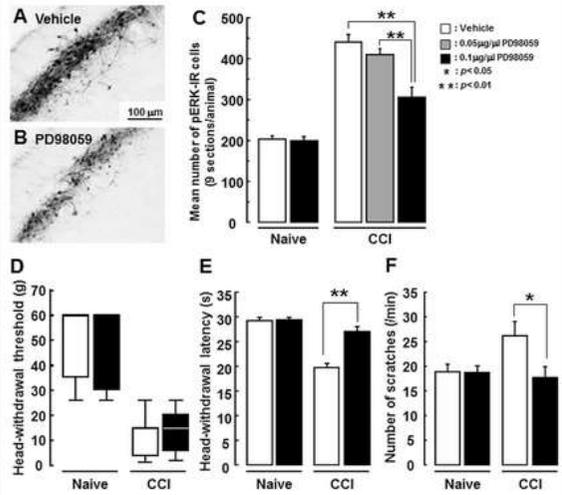


Figure Data:

Panel	Y-axis	Naive	CCI	Significance
C	Mean number of pERK-IR cells (9 sections/animal)	~200	~400	**
D	Head-withdrawal threshold (g)	~50	~30	
E	Head-withdrawal latency (s)	~30	~20	**
F	Number of scratches (min)	~20	~15	*

Published on 23 Feb 2013 - 12:41 (GMT)
Filesize is 943.04 KB

This data is part of a published article: [Involvement of ERK Phosphorylation of Trigeminal Spinal Subnucleus Caudalis Neurons in Thermal Hypersensitivity in Rats with Infraorbital Nerve Injury](#)

Published by: 

Categories

- Physiology
- Neuroscience

Authors

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Masaaki Kiyomoto
Barry J. Sessle

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Cite this: Effect of i.t. administration of PD98059 on ERK phosphorylation in Vc

analysis

earlywarning / [+](#) 97 commits

file to write csv data files from cached rda data files

 **cboettig** authored 5 days ago latest commit b6635f2aab 

 R	10 months ago	avoid nans [cboettig]
 data	a year ago	Merge branch 'master' of github.com:cboettig/earlywarning [cboettig]
 inst	5 days ago	file to write csv data files from cached rda data files [cboettig]
 man	a year ago	summary stat looping function, dependencies added [cboettig]
 DESCRIPTION	8 months ago	updated description [cboettig]
 NAMESPACE	a year ago	documentation etc [cboettig]
 README.md	9 months ago	README file added [cboettig]

 README.md

Quantifying the Detection of Early Warning Signals

This package contains the source code, analysis, and history of my research published in the Proceedings of the Royal Society Interface, *Limits to the Detection of Early Warning Signals for Critical Transitions* with Alan Hastings, May 2012. A preprint under CC-by license is freely available from my website

- Author: Carl Boettiger
- License: [CC0](#)
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stories

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short story, novella, novel, series, play,
film, comic book, etc, etc...

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How many proofs that $\pi_n(S^n) = \mathbb{Z}$ are there?

15

7

Offhand I can think of two ways in classical homotopy theory:

1. Show that $\pi_k(S^n) = 0$ for $k < n$ by deforming a map $S^k \rightarrow S^n$ to be non-surjective, then contracting it away from a point not in its image. Now use the Hurewicz theorem to show $\pi_n(S^n) = H_n(S^n) = \mathbb{Z}$, which is easy to calculate with cellular homology.
2. Use the Freudenthal suspension theorem to induct up from $\pi_1(S^1) = \mathbb{Z}$, which you can prove using (say) the universal covering space $\mathbb{R} \rightarrow S^1$.

What other ways are there to prove $\pi_n(S^n) = \mathbb{Z}$?

at.algebraic-topology

homotopy-theory

big-list

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edited Feb 8 at 8:53

community wiki

 Ricardo Andrade

4 this should be community wiki – Koushik Feb 8 at 0:43

A very silly option is: run an algorithm which given a simplicial decomposition of the sphere gives you the group. As algorithm exist, this is in principle viable :-). – Mariano Suárez-Alvarez Feb 8 at 2:39

3 Am I allowed to say "countably many"? :-). – Andrej Bauer Feb 8 at 11:31

1 @Tom: Is there a way to generalize that argument to $n > 2$? – Mike Shulman Feb 8 at 16:31

1 The deformation argument in (1) is superfluous. Just calculate π_1 and H_* from the cell decomposition. Then for simply connected spaces, Hurewicz shows that the minimum $i > 0$ for which $H_i \neq 0$ is the same as the minimum $i > 0$ for which $\pi_i \neq 0$, and that the groups coincide for this i . – unknown (google) Feb 9 at 21:53

show 3 more comments

“ala2013” @jasonpriem



Lori Hancock @OnceUponARun... 8m
@kaauthor congrats again!!!
Loved this book before it won & I'm so happy that so many more people of all ages will read it! #ala2013

Conversation



Emily J. Hurst @hurstej 8m
"This is the future and you are going to have to be cool with it!" #ala2013
Mobile technology and ereaders in schools. Love it!

Details



Casey O'Leary @Itbloomlib 8m
There was holy silence in the room as Alice Walker shared her work. Unforgettable. #ala2013

Details

Ann Verleye retweeted



American Libraries @amlibraries 25m
40 great apps for mobile reference and outreach, #ala2013: bit.ly/11Z7AcZ

Details



Lisa Rabey @pnkrccklibrarian 8m
Goodbye Internet! We love youuuuuuuuuuu. (And you too #ALA2013!!)

Details



Kate Rudd @katerudd 8m
I see you, ALA. #ala2013
instagram.com/p/bPJ4M7IbAK/

Details

conversation

PUBLIC  **weecology / data-sharing-paper** Watch Star 21 For

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 **cboettig** opened this issue a month ago
Reviewer Comments

No one is assigned No milestone

Hi Ethan and co-authors,

I enjoyed reviewing your paper and assume by now you have received my comments from the Journal office. In the spirit of your open writing of this manuscript I thought I would also paste my review here. I have received approval from the journal office to do so.

I've taken the liberty of linking this issue in a comment from the PeerJ preprint. As the PeerJ comments are limited to

Closed
9 comments
Labels

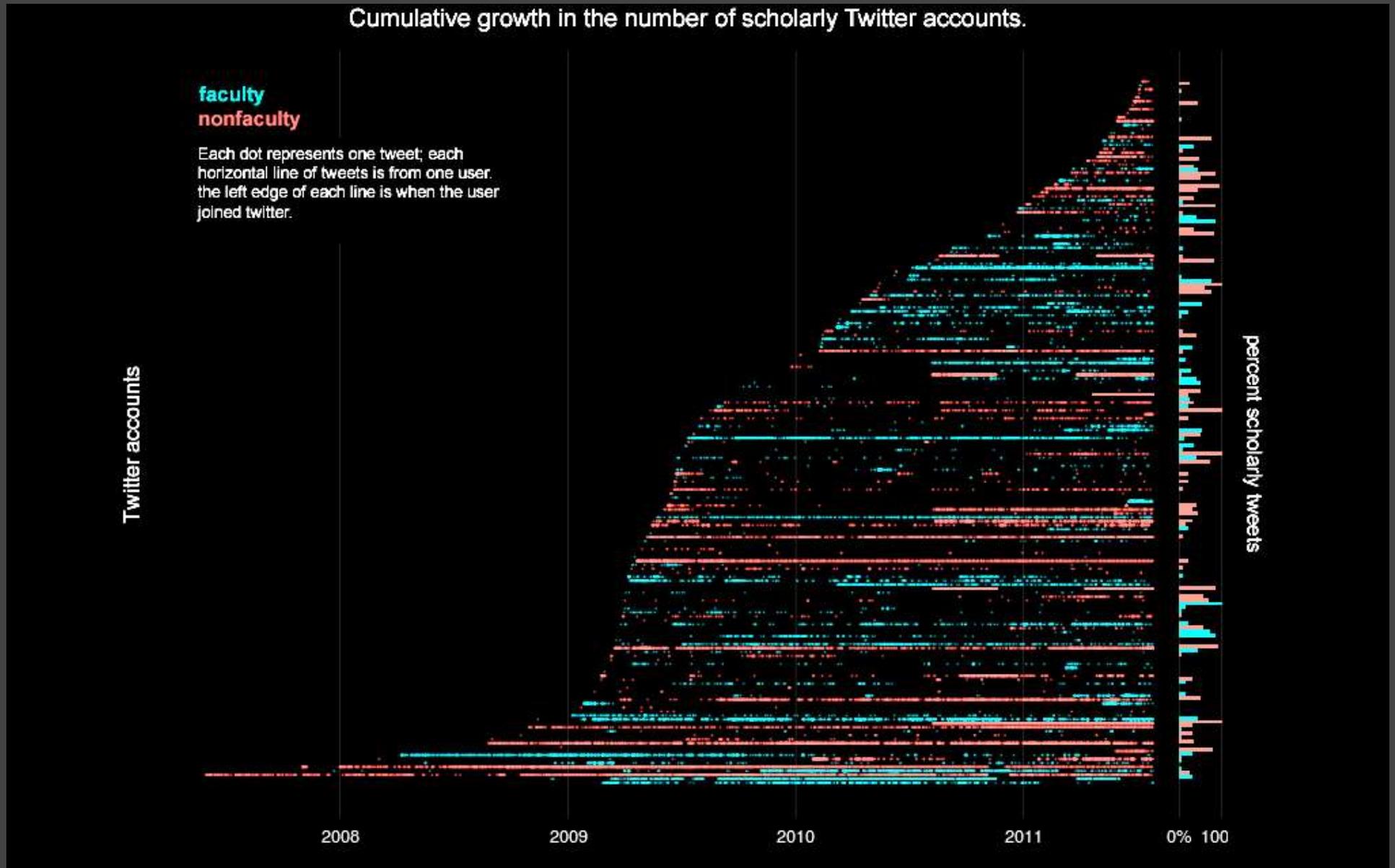
Examples: Twitter

In one month, over [58k citations](#) from Twitter to scholarly articles (citwaitions?)

It is like having a jury preselect what will probably interest you.... Occasionally there will be something that people will link to, and it will change what I think, or what I'm doing, or what I'm interested in.

-study participant
[\(Priem and Costello, 2010\)](#)

Examples: Twitter



Web-native science
means we can start
making public, not
merely "Publishing."

Here's my journal:

The image shows a screenshot of a TweetDeck interface with five columns:

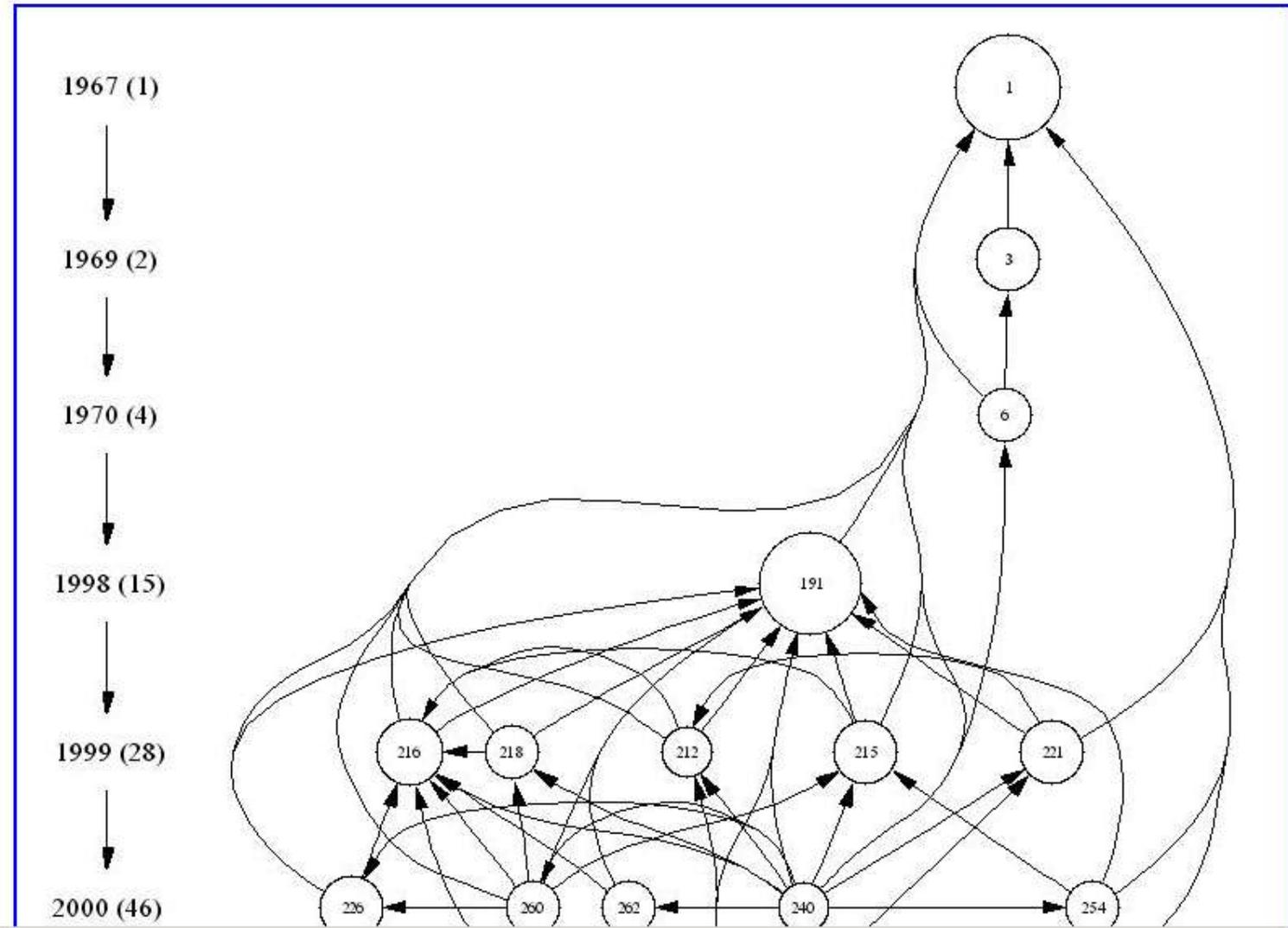
- 1. Home:** Contains tweets from Jennifer Granick (@granick), Jeff Atwood (@codinghorror), John Herman (@jwherrman), Tom Scheinfeldt (@foundhistory), and Alex Garnett (@axfelix).
- 2. Interactions @jasonpriem:** Shows notifications for following actions from Crowd4Discovery, Ecology Report, and Kelly Ruggles.
- 3. "altmetrics" @jasonpriem:** Features tweets from Research2.0, March Metrics, Jean-Frédéric (@JeanFred), and March Metrics again.
- 4. Tweets @researchremix:** Displays tweets from Paul Hobson (@pmhobson), Open Science Fedn (@openscie...), UBC Library (@ubclibrary), Heather Plowowar (@researchremix), and Heather Plowowar again.
- 5. Interactions @lmp:** Shows notifications for interactions from Adora Doro (@adora_) and Mark Zastro (@ZastroPhys).

**But how do we
filter? How do
we measure?**

**The old way:
countin' citations**

And that's awesome!

LCS ≥ 20



But citations only tell part of the story

Spotting emerging research fronts will require tracking "formal and informal communication" (Kuhn, 1977)

Heart of scholarly communication is "visits, personal contacts, and letters." (Bernal, 1944)

"...there are undoubtedly highly useful journals that are not cited frequently." (Garfield, 1972)

Impact has multiple dimensions:

Audience:	scholars, public
Engagement type:	views, discussion, saves, citation, recommendation

Impact has multiple dimensions:

	scholarly	public
recommended		
cited		
discussed		
saved		
read		

Bibliometrics measures **citation**

	scholarly	public
recommended		
cited	traditional citation	
discussed		
saved		
read		

Altmetrics measures **impact**:

	scholarly	public
recommended	faculty of 1000	popular press
cited	traditional citation	wikipedia
discussed	scholarly blogs	blogs, twitter
saved	mendeley, citeulike	delicious
scholarly	pdf views	html views

Bibliometrics mined impact
on the first scholarly Web.

altmetrics mines
impact on the
next one.

ImpactStory.

An open-source, nonprofit startup to gather and share altmetrics.

Heather Piwowar
Jason Priem



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FOUNDATION

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article

Mega-phylogeny approach for comparative biology: an alternative to supertree and supermatrix approaches (2009) Smith, Beaulieu, Donoghue *BMC Evol Biol*

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Computational toxicology using the OpenTox application programming interface and Bioclipse. (2011) Willighagen, Jeliazkova, Hardy et al. *BMC research notes*

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Multistep correlations via covariance processing of COSY/GCOSY spectra: opportunities and artifacts (2008) Martin, Hilton, Blinov et al. *Magn. Reson. Chem.*

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Automated dielectric single cell spectroscopy - temperature dependence of electrorotation (2002) Mletchen, Schnellie, Muller et al. *Journal of Physics D: Applied Physics*

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Pyramid symmetry transforms: From local to global symmetry (2007) Zavidovique, Di Gesù *Image and Vision Computing*

saved cited saved

dataset

Data from: Data archiving is a good investment (2011) Plwosar, Vision, Whitlock et al. *Dryad Digital Repository*

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artifacts

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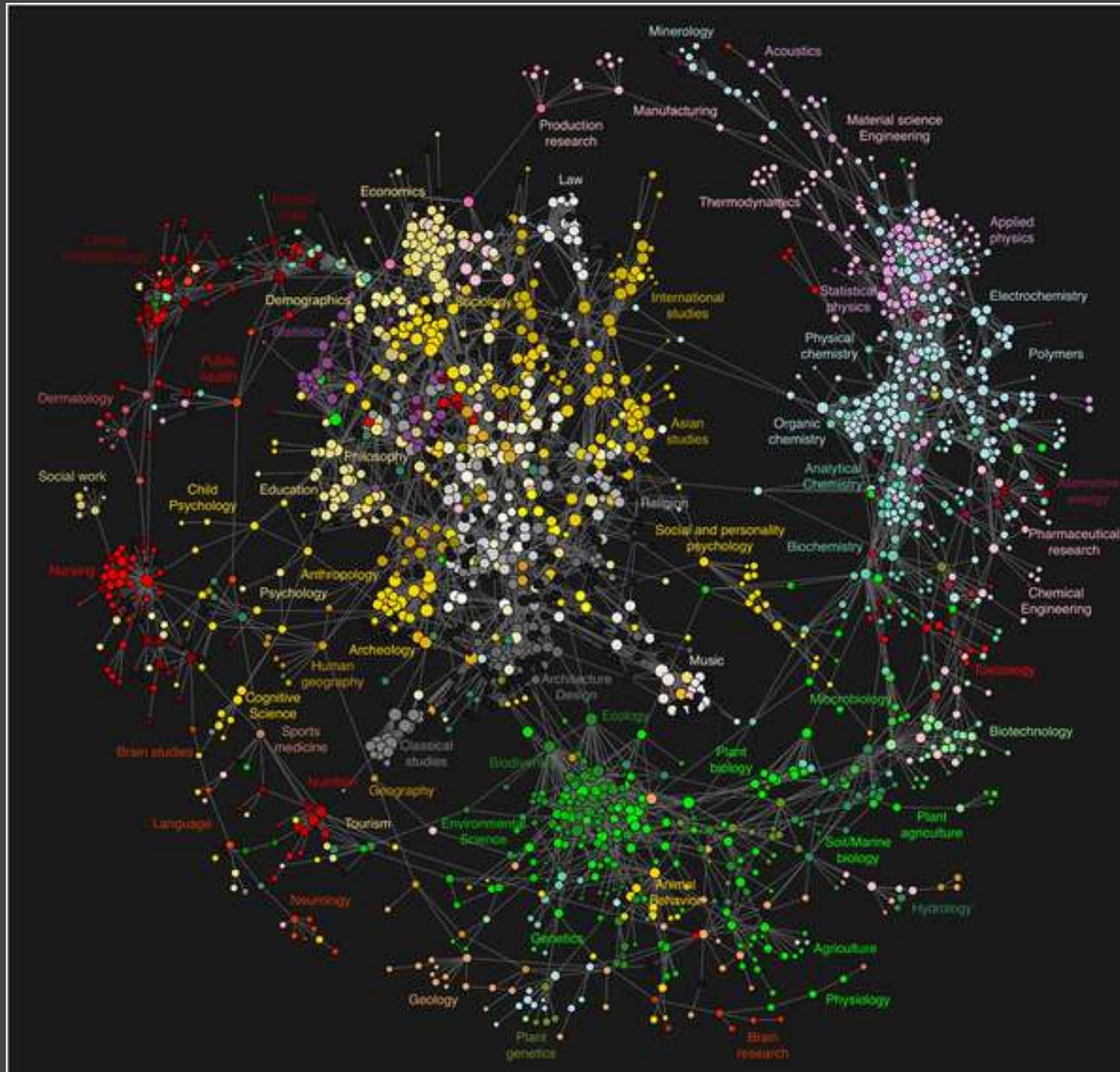
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Highly saved by scholars

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The network is the key



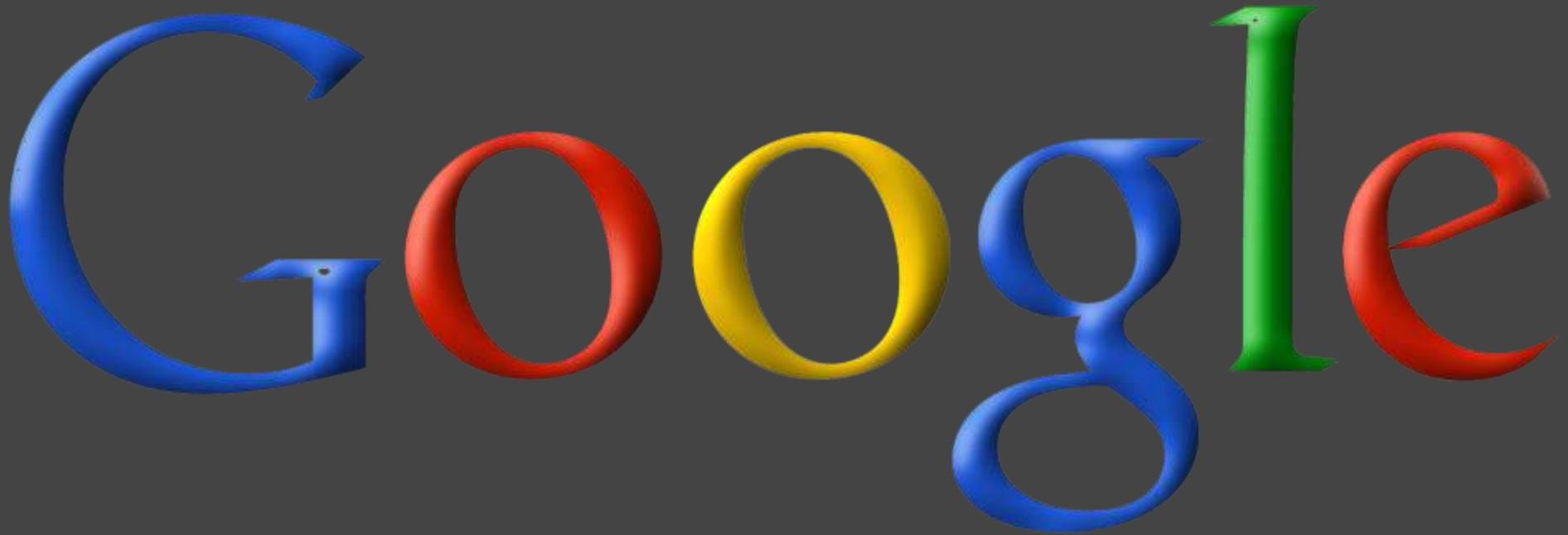
Bollen, J., Van de Sompel, H., Hagberg, A., Bettencourt, L., Chute, R., Rodriguez, M. A., & Balakireva, L. (2009). Clickstream Data Yields High-Resolution Maps of Science. *PLoS ONE*, 4(3), e4803. doi:10.1371/journal.pone.0004803

At web scale, the value isn't in
manual curation...

YAHOO!®

(ask these guys)

It's in mining the network



(ask these guys)

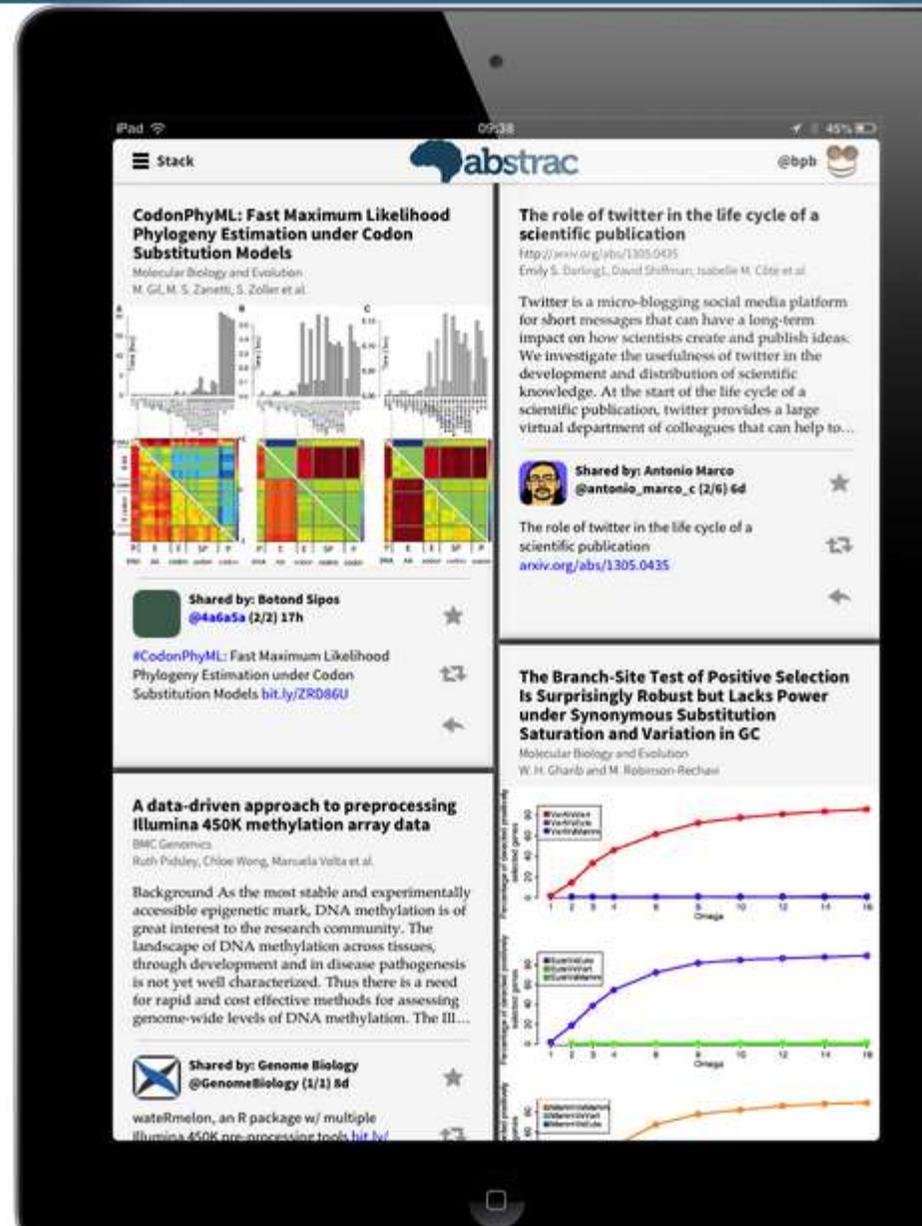
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Introductions

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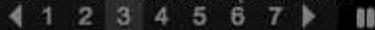
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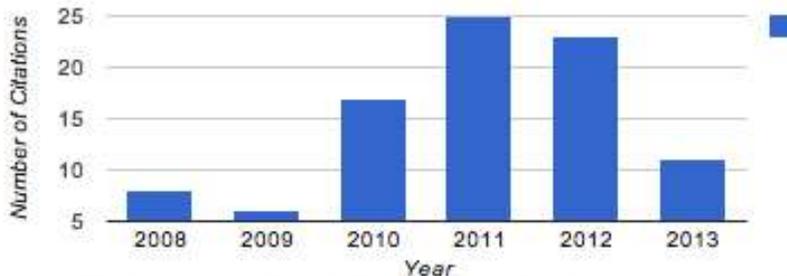
-  **BloMOCA Suite** : Simulates ion flow through a channel. - in Tools
-  **Simulation of Multi-Technology Micro and Nano Systems** - in Presentation Materials
-  **David M. Ceperley**, University of Illinois at Urbana-Champaign - Contributions: 51
-  **RMRLS 0.2** - in Downloads

Citations and AltMetrics

Sample Idea of Creating an Impact CV Based on Citations and AltMetrics

Comments (-) Share Hide Toolbars

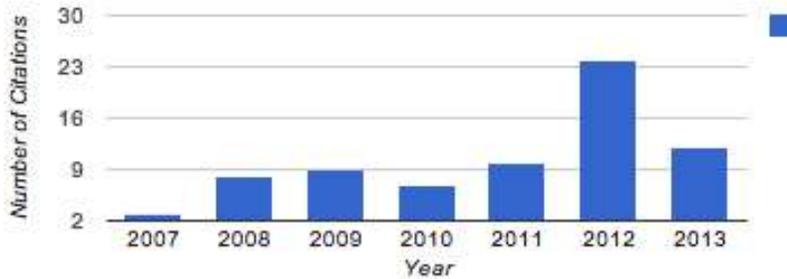
Roehrig, A. D., **Petscher, Y.**, Nettles, S.M., Hudson, R.F., & Torgesen, J.K. (2008). Not just speed reading: Accuracy of the DIBELS oral reading fluency measure for predicting high-stakes third grade reading comprehension outcomes. *Journal of School Psychology*, 46, 343-366.



ImpactStory.

highly saved

Hurst, A., Prevatt, F., **Petscher, Y.**, & Proctor, B. (2007). The learning and study strategies of college students with ADHD. *Psychology in the Schools*, 44, 573-584.



ImpactStory.

highly saved

cited

Catts, H.W., **Petscher, Y.**, Schatschneider, C., Bridges, M.S., & Mendoza, K. (2009). Floor effects associated with universal screening

The second revolution has started.

Once we have altmetric data, it's too useful to ignore; alternative filters and even certification paths based on this data will open.

As Peter Vinkler says, citation graph data is like Chekhov's gun: once on stage, it has to be fired.

A wise man, that Chekov.



Thanks!

Advisors:

- Brad Hemminger,
- Todd Vision



Funders:

- Alfred P. Sloan Foundation
- DataONE
- Dryad
- National Science Foundation
- Open Society Foundations
- Royster Society of Fellows



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Questions?

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