

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

stories

analysis

data

data



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Dataset

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

Reader SM, Hager Y, Laland KN (2011) The evolution of social learning in primates. *Proceedings of the Royal Society B* 366(1567): 1017-1024.

Additionally, please cite the Dryad data package as:

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

Information

- Depositing Data
- Using Data
- Dryad Members
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My data Browse Upload

J. Priem


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

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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: 

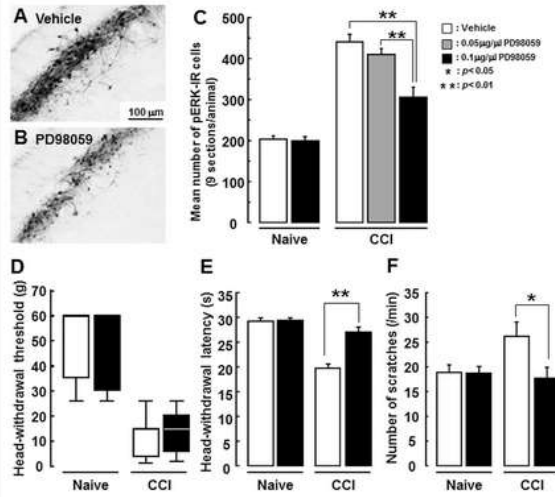


Figure Data:

Panel	Group	Treatment	Value (approx.)	Significance
C: Mean number of pERK-IR cells (9 sections/animal)	Naive	Vehicle	200	ns
	Naive	PD98059	200	
C: Mean number of pERK-IR cells (9 sections/animal)	CCI	Vehicle	450	**
	CCI	PD98059	300	
D: Head-withdrawal threshold (g)	Naive	Vehicle	55	ns
	Naive	PD98059	55	
D: Head-withdrawal threshold (g)	CCI	Vehicle	15	ns
	CCI	PD98059	18	
E: Head-withdrawal latency (s)	Naive	Vehicle	30	ns
	Naive	PD98059	30	
E: Head-withdrawal latency (s)	CCI	Vehicle	20	**
	CCI	PD98059	28	
F: Number of scratches (min)	Naive	Vehicle	20	ns
	Naive	PD98059	20	
F: Number of scratches (min)	CCI	Vehicle	25	*
	CCI	PD98059	18	

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


Categories

- Physiology
- Neuroscience



Authors








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- Barry J. Sessle


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](#)
- [Project navigation](#)

stories

fiction:

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

scholarship:

paper, monograph,

video, blog posts, notebooks, infographics,
slides, etc, etc

conversation

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

15



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

flag | cite

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 @ltbloomlib 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/bPJ4M7lbAK/](https://www.instagram.com/p/bPJ4M7lbAK/)

Details


conversation

PUBLIC  **weecology / data-sharing-paper**

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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

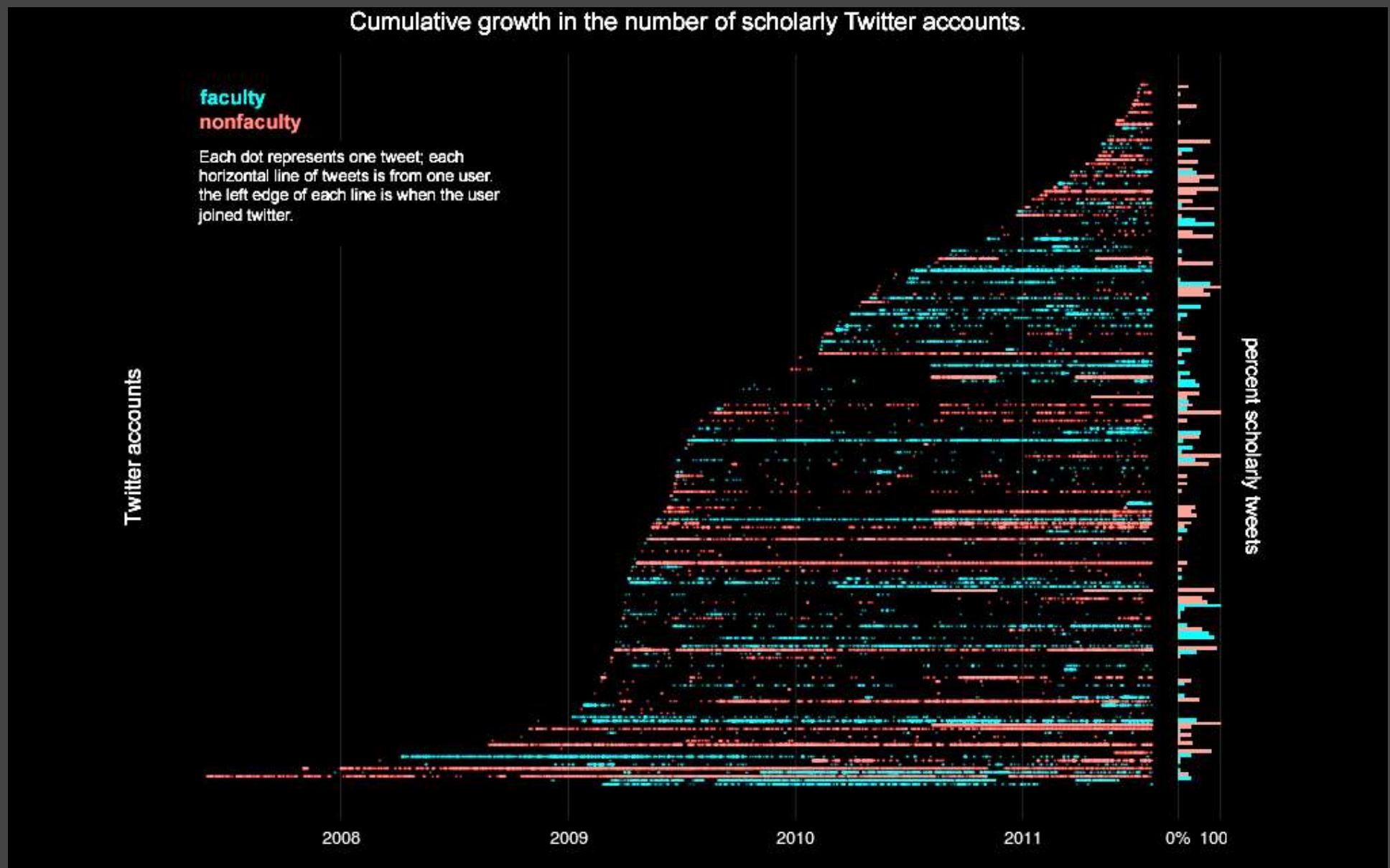
Examples: Twitter

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."

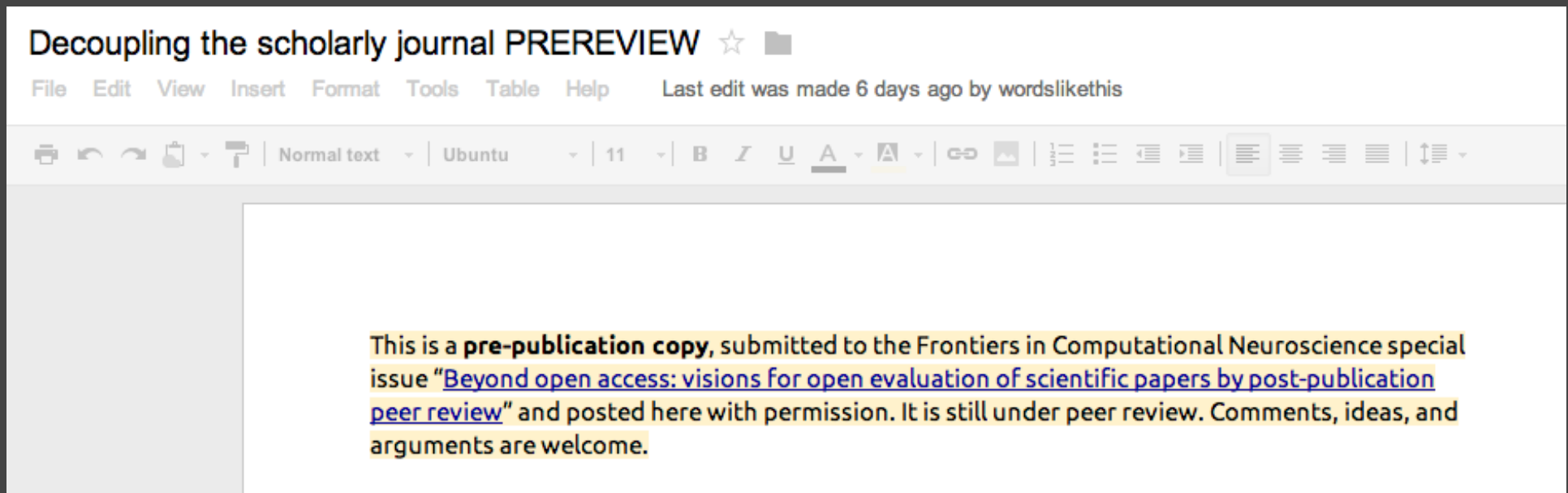
Here's my journal:

The image shows a screenshot of a TweetDeck interface, which is a multi-column social media viewer. The interface is divided into five main columns, each with a header and a list of tweets or interactions.

- Column 1: Home**
 - Khadijah M. Britton retweeted
 - Jennifer granick** @granick 8m
Petition to Free the Cell Phone: Now is the Time cyberlaw.stanford.edu/blog/2013/02/p... Phone unlocking needs your support.
 - Jeff Atwood** @codinghorror 16s
HAYYY GUYZZ we have venture capital! pic.twitter.com/WlzJt8Fh
 - Khadijah M. Britton retweeted
 - John Herman** @jwherrman 7m
The last thing Culture will see before it dies is two anthropomorphized brands consoling each other on Twitter twitter.com/jeep/status/30...
 - Tom Scheinfeldt** @foundhistory 1m
Was a UC-Irvine professor booted from his MOOC for trying to maintain standards? bit.ly/Xmj7AA
 - Alex Garnett** @axfelix 1m
New Yorker writes a thing
- Column 2: Interactions @jasonpriem**
 - Crowd4Discovery** followed you
 - Ecology Report** followed you
 - Coltharp Fillmore** retweeted
 - Jason Priem** @jasonpriem 4d
.@foldit participant: "It's better than any other game, 'cause I can change the world." #youJustDescribedSciencePrettyWell #AAASmtg #AAASms
 - Ana Nelson** favorited
 - Jason Priem** @jasonpriem 6h
Yeah, but picks wrong denominator. "Redshirts die" trope applies to redshirts w/ "screentime", not just in crew.
 - Kelly Ruggles** followed you
- Column 3: "altmetrics" @jasonpriem**
 - Research2.0** @Research2_0 22m
RT: Have you planned your strategy for @MarchMetrics yet? Only 9 days until the competition launch! #science #innovation #altmetrics
 - March Metrics** @MarchMetrics 22m
Have you planned your strategy for #MarchMetrics yet? Only 9 days until the competition launch! #science #research #innovation #altmetrics
 - Jean-Frédéric** @JeanFred 3h
#Altmetrics: reflect the impact of scholarship in the era of social media, collaborative tools, etc. altmetrics.org (@ReaderMeter)
 - March Metrics** @MarchMetrics 4h
This is how ideas are born. #marchmetrics #altmetrics #science #research2.0 @Research2_0 #innovation pic.twitter.com/J1s6SGuE
 - March Metrics** @MarchMetrics 4h
- Column 4: Tweets @researchremix**
 - Paul Hobson** @pmhobson 2h
Engineers: y'all too! "@openscience: Scientist, meet version control: from personal workflows to open #science: buff.ly/XkVb0g"
 - Open Science Fedn** @openscle... 4h
Scientist, (please) meet version control: from personal workflows to open collaboration: buff.ly/XkVb0g #openscience by @fperez_org
 - UBC Library** @ubclibrary 32m
Open Scholar Award call for submissions - The Open Scholar Award is open to UBC Vancouver graduate students. Submis... ow.ly/2uYSRn
 - Heather Plowowar** @researchremix 7h
@jenica26 Yeah I hear you. Give me a shout if I can help, hope you find proper bed soon.
 - Heather Plowowar** @researchremix 7h
@jenica26 Are you stranded in Vancouver? Do ya need help? I'm local, can help!
- Column 5: Interactions @lmp**
 - Adora Doro** @adora_
 - Mark Zastro** @ZastroPhys
 - Helen Kenn** @helenkenna
 - dr. mala sau** @sauramala
 - AMLgirl** @AMLgirl

Here's how I publish:

The Decoupled Journal article: a case study.



The screenshot shows a web editor interface. At the top, the title "Decoupling the scholarly journal PREREVIEW" is displayed with a star icon and a folder icon. Below the title is a menu bar with options: File, Edit, View, Insert, Format, Tools, Table, and Help. To the right of the menu bar, it says "Last edit was made 6 days ago by wordslikethis". Below the menu bar is a toolbar with various icons for text formatting, alignment, and insertion. The main content area shows a paragraph of text: "This is a **pre-publication copy**, submitted to the Frontiers in Computational Neuroscience special issue "[Beyond open access: visions for open evaluation of scientific papers by post-publication peer review](#)" and posted here with permission. It is still under peer review. Comments, ideas, and arguments are welcome." The text is highlighted in yellow.

Decoupling the scholarly journal PREREVIEW ☆ 📁

File Edit View Insert Format Tools Table Help Last edit was made 6 days ago by wordslikethis

Normal text Ubuntu 11 B I U A A | | | | | | | | | |

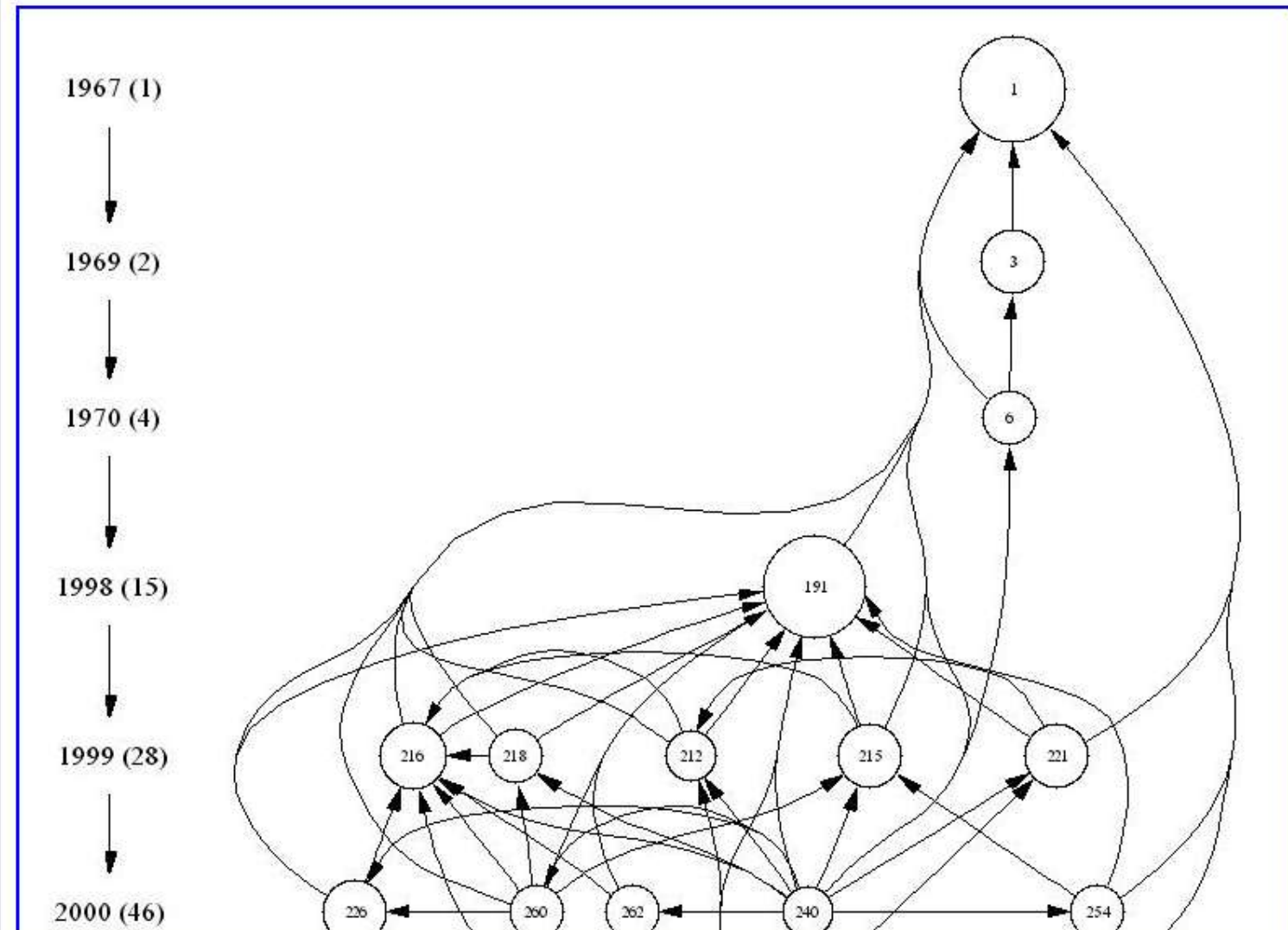
This is a **pre-publication copy**, submitted to the Frontiers in Computational Neuroscience special issue "[Beyond open access: visions for open evaluation of scientific papers by post-publication peer review](#)" and posted here with permission. It is still under peer review. Comments, ideas, and arguments are welcome.

**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



ALFRED P. SLOAN
FOUNDATION

My Collection

9 items (expand all)

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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*

highly saved highly cited

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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, Schnelle, 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) Plowowar, Vision, Whitlock et al. *Dryad Digital Repository*

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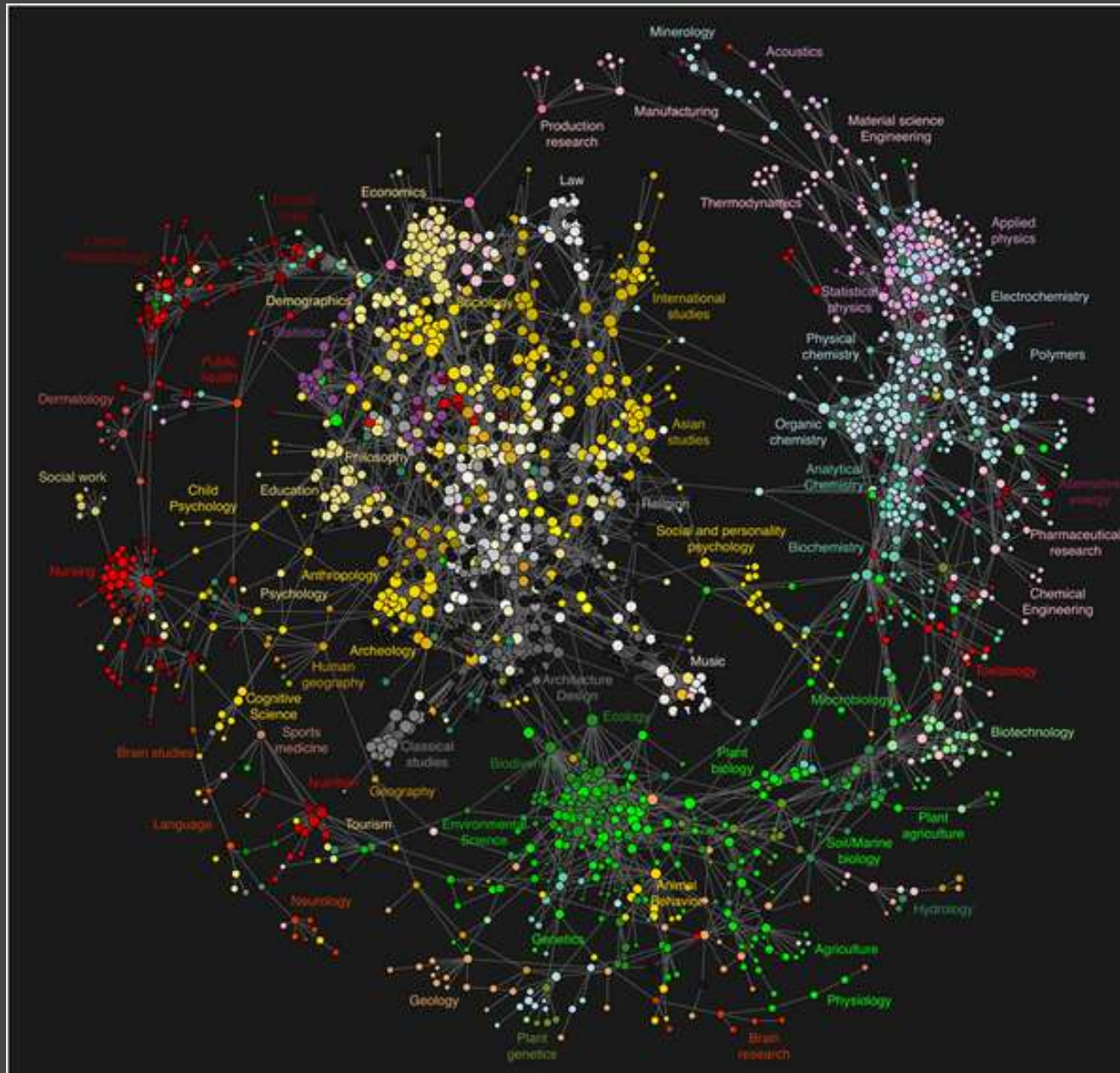
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This item has 6 Mendeley readers. That's better than 76% of items indexed by Web of Science in 2008, suggesting it's highly saved by scholars. Click to learn more.

The network is the key



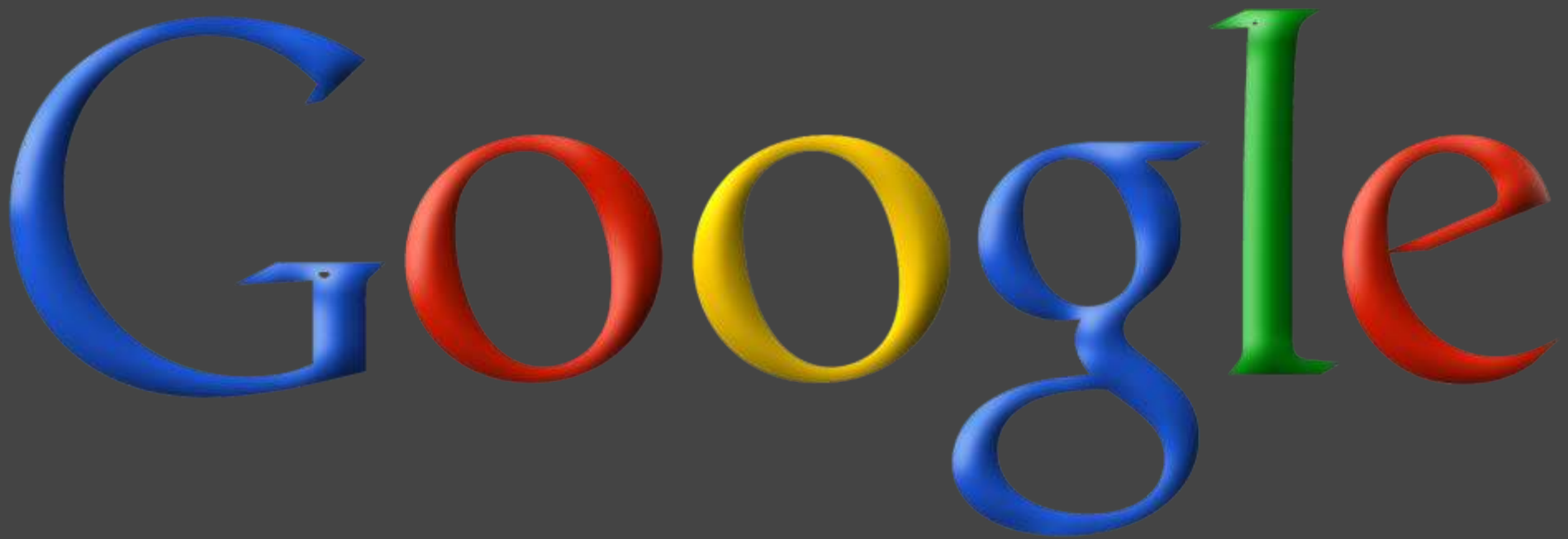
Bollen, J., Van de Sompel, H., Hagberg, A., Bettencourt, L., Chute, R., Rodriguez, M. A., & Balakireva, L. (2009). Clickstream Data Yields High-Resolution Maps of Science. *PLoS ONE*, 4(3), e4803. doi:10.1371/journal.pone.0004803

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

YAHOO!®

(ask these guys)

It's in mining the network



(ask these guys)

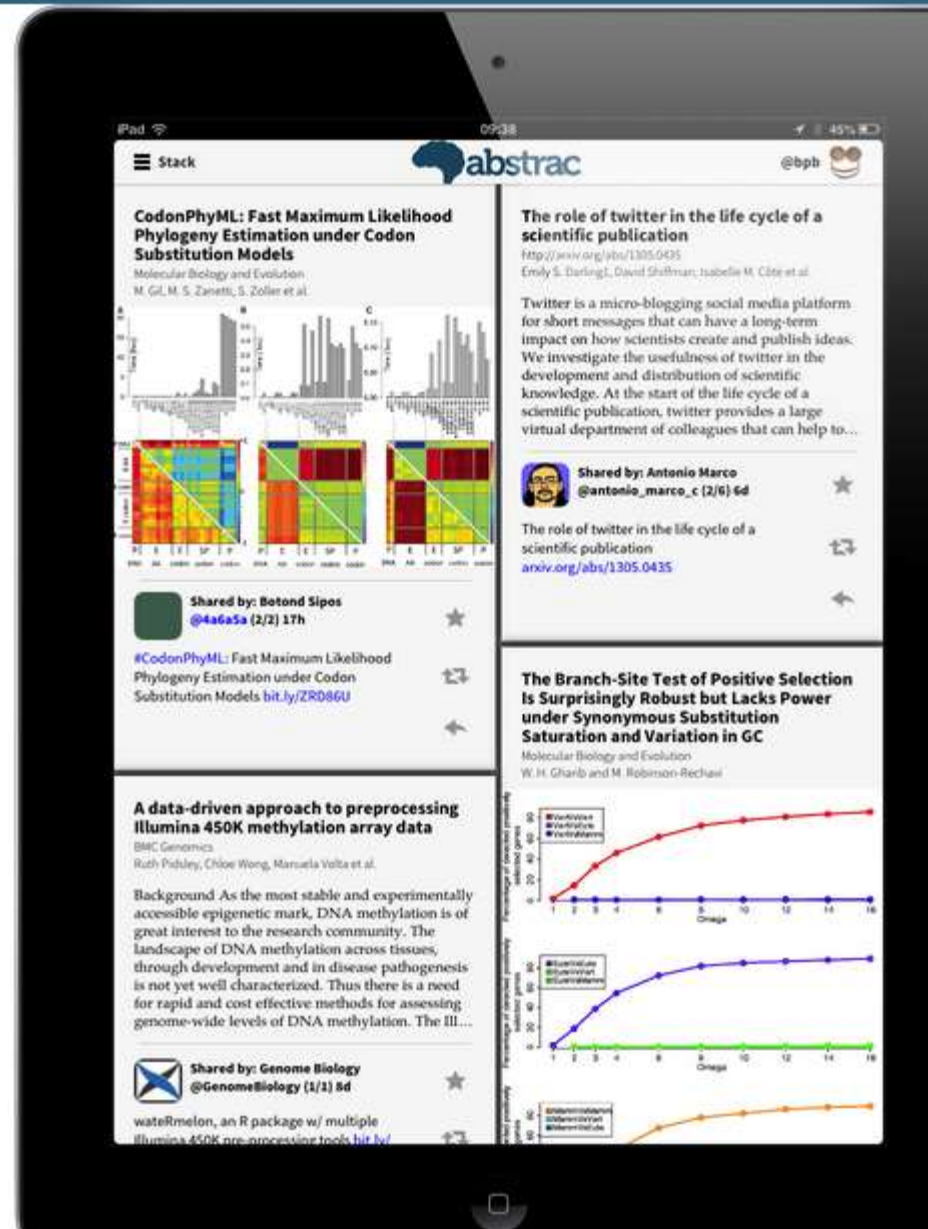
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The *Journal of Digital Humanities* is a comprehensive, peer-reviewed, open access journal that features the best scholarship, tools, and conversations produced by the digital humanities community in the previous quarter.

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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

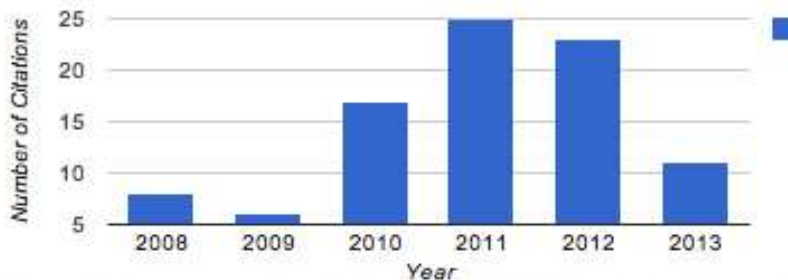
Sample Idea of Creating an Impact CV Based on Citations and AltMetrics

Comments (-)

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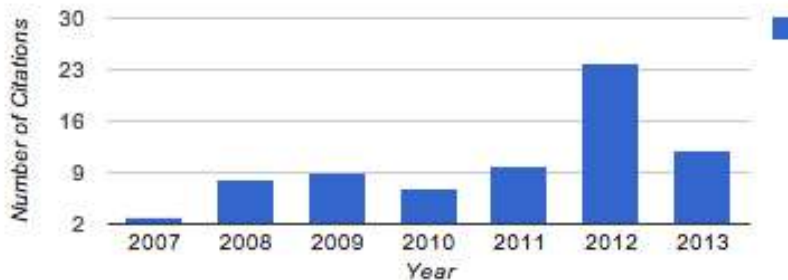
Roehrig, A. D., **Petscher, Y.**, Nettles, S.M., Hudson, R.F., & Torgesen, J.K. (2008). Not just speed reading: Accuracy of the DIBELS oral reading fluency measure for predicting high-stakes third grade reading comprehension outcomes. *Journal of School Psychology*, 46, 343-366.



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?

Jason Priem @jasonpriem, <http://jasonpriem.org>

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