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The Gatekeeper is dead!
Long live the Gatekeeper!

STM Innovation Seminar 3 December 2010, London

Thankyou Clay Shirkey.

Now where’s my **** filter?

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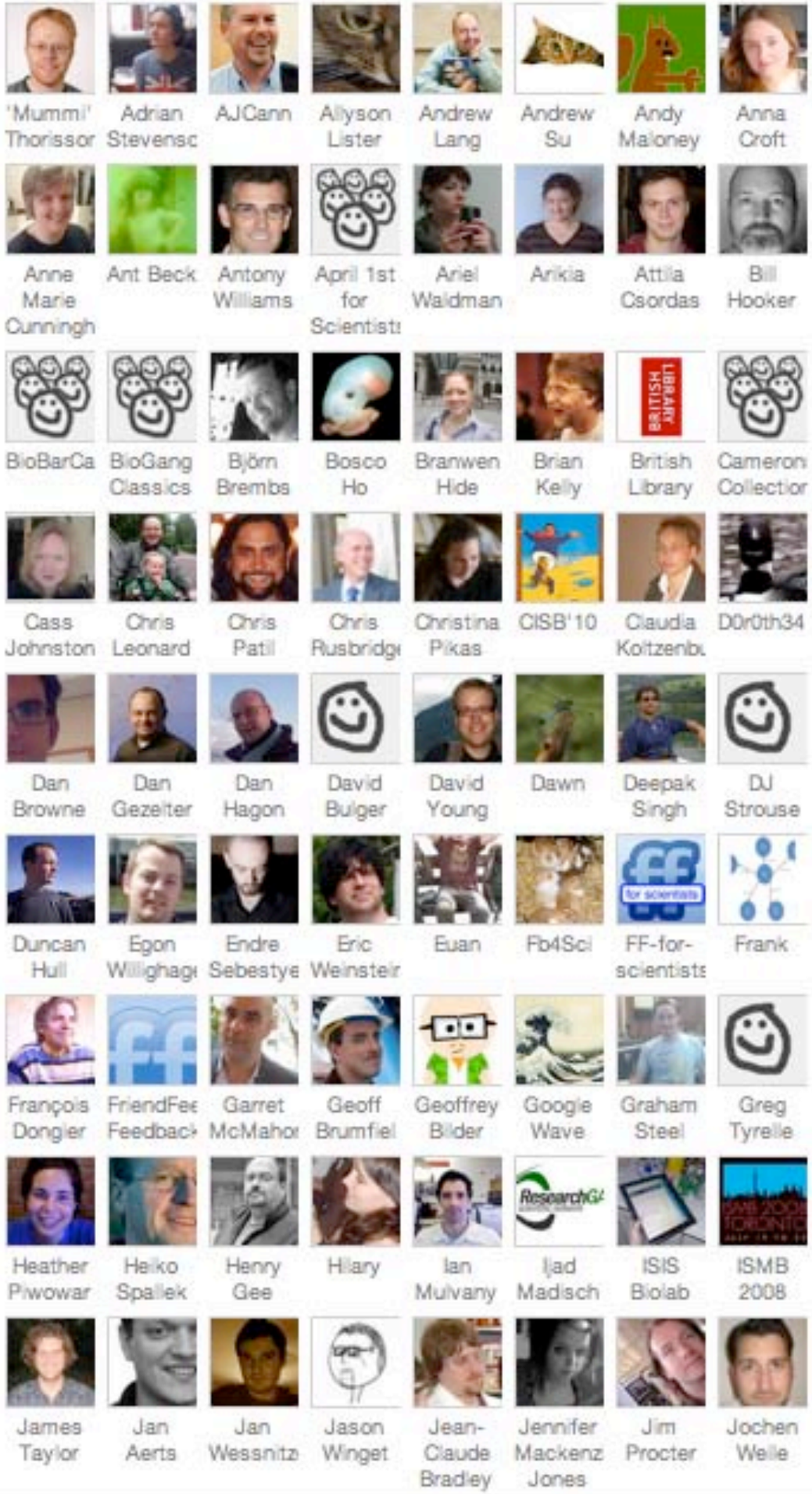
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Back to them later...

Me: A brief history

Finished highschool 1990...

Undergrad 1991-94

PhD 1995-99

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Science
▶Global weekly of research

16 April 1999

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Too little resource

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...for you it is...

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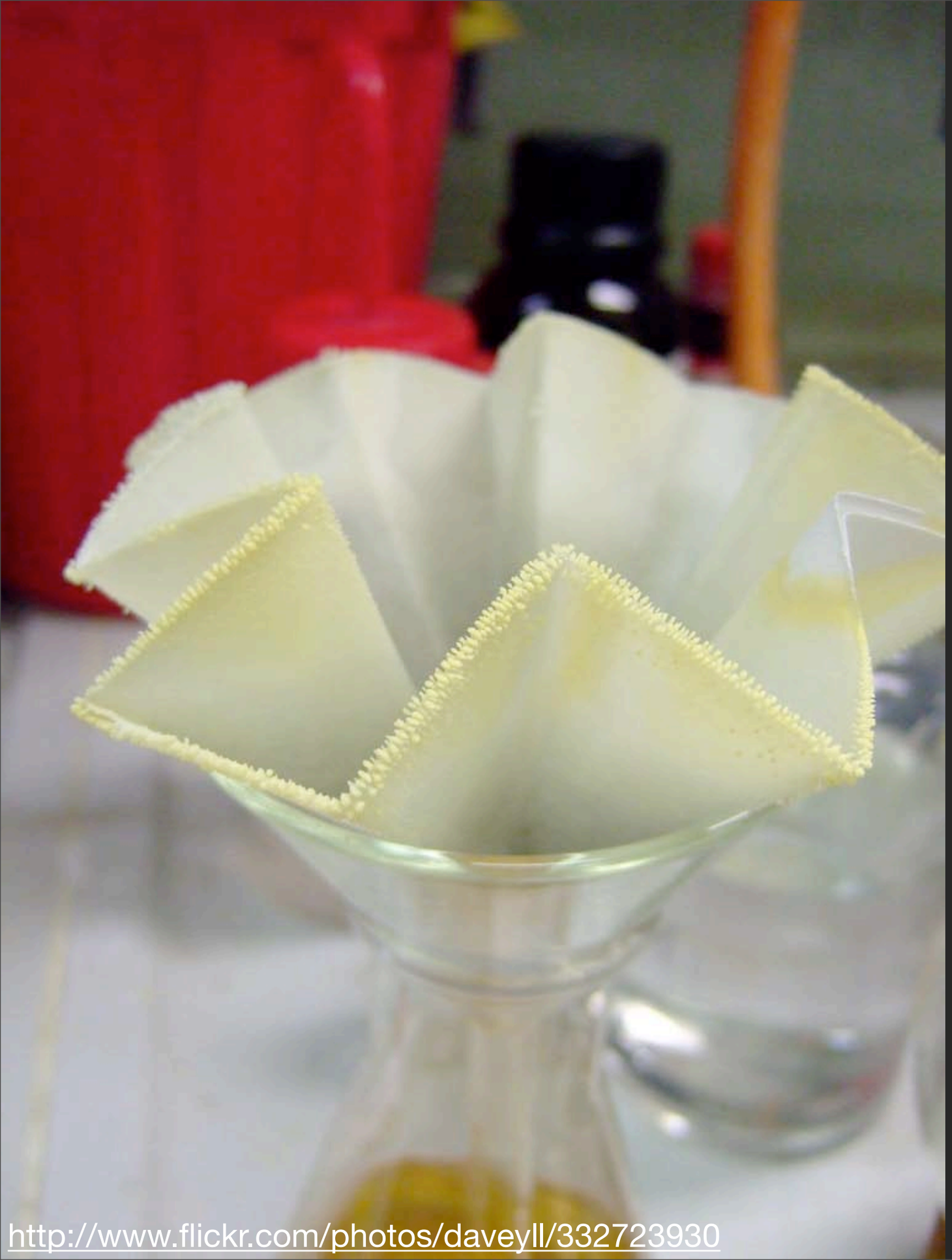

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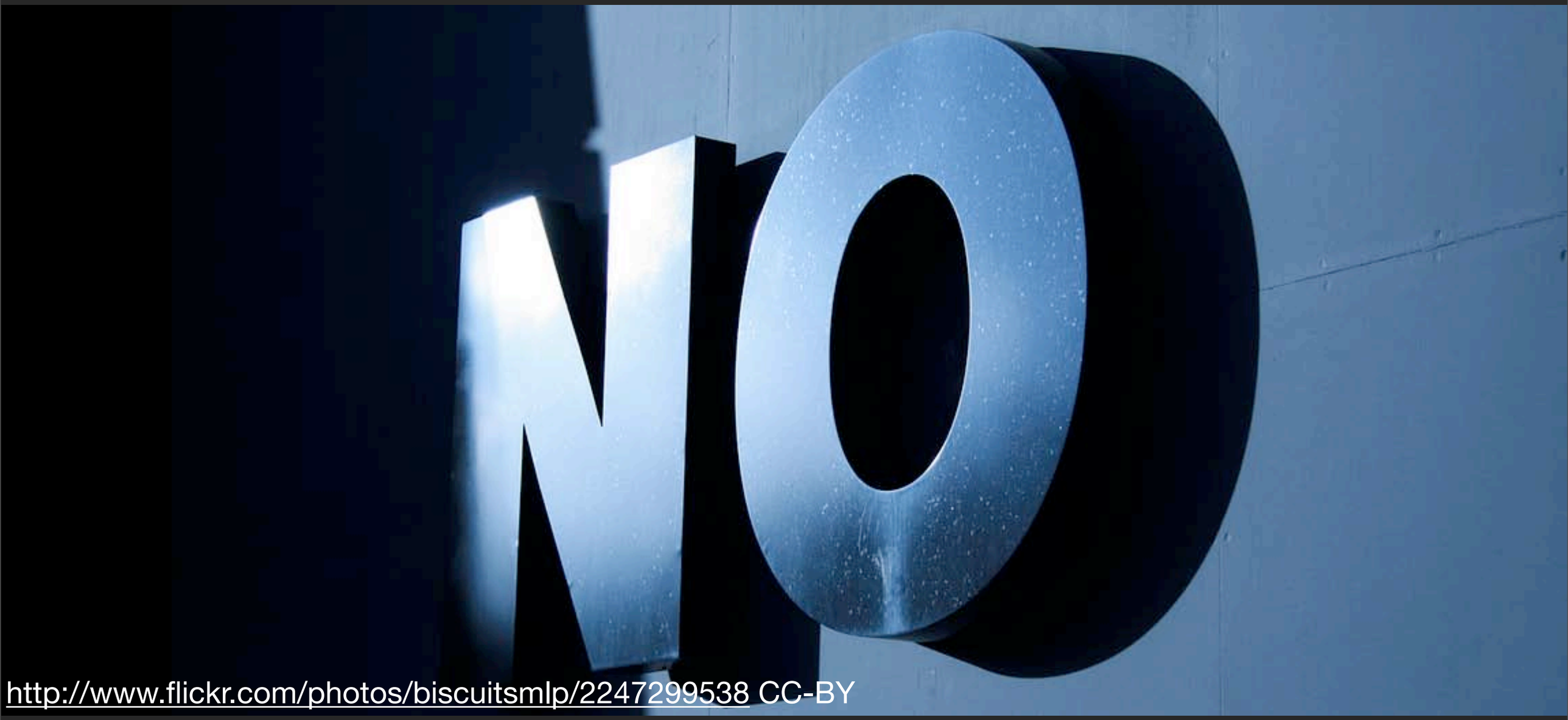

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...keeping us on the straight and narrow...

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On Google I set the filter...

...in your journal it’s hidden

An example.

Reductive and Transition-Metal-Free: Oxidation of Secondary Alcohols by Sodium Hydride

Xinbo Wang, Bo Zhang and David Zhigang Wang*
School of Chemical Biology and Biotechnology, Shenzhen Graduate School of Peking University, Shenzhen, China 518055

J. Am. Chem. Soc., Article ASAP
DOI: 10.1021/ja904224y
Publication Date (Web): July 21, 2009

dzw@szpku.edu.cn

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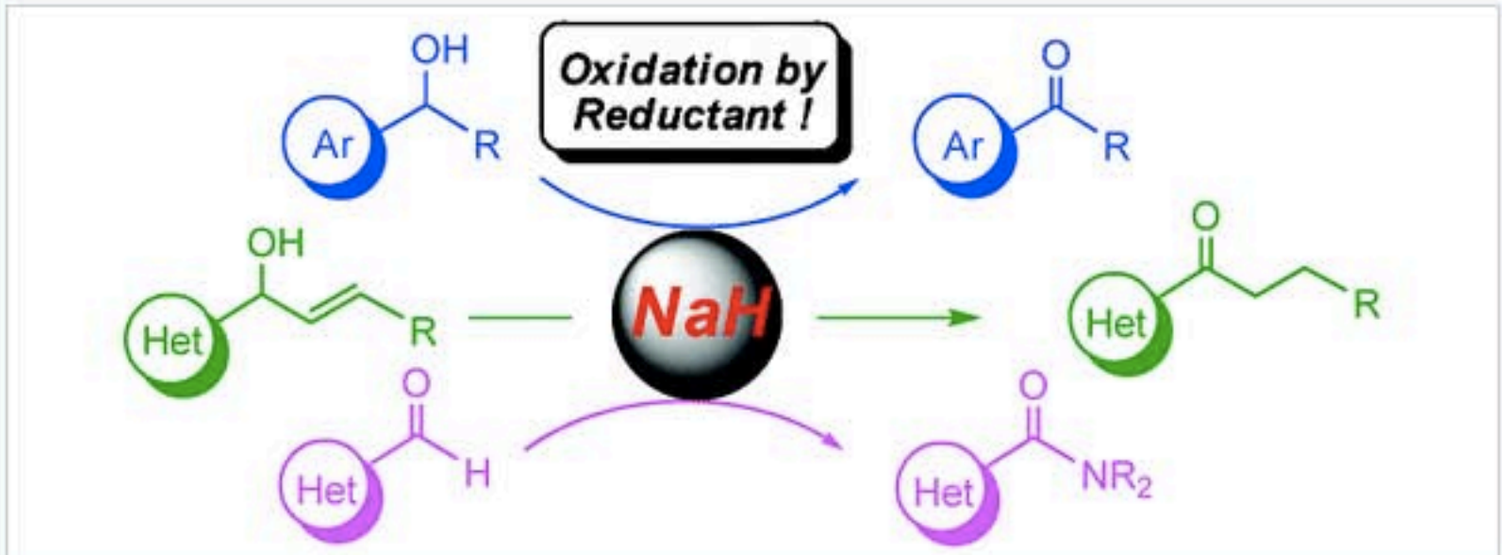

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Other ACS content by these authors:

Xinbo Wang
Bo Zhang
David Zhigang Wang

NaH as an Oxidant – Liveblogging!

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As many of you will have noticed in the comments to the previous post (which was thoroughly hi-jacked), an intriguing paper has been published in JACS by Xinbo Wang, Bo Zhang and David Zhigang Wang. In this, they suggest it is possible to oxidise benzylic alcohols to the corresponding ketones using **sodium hydride** (amongst other chemistry). Given that sodium hydride is, well, a hydride – this is quite something. Does it work? Hard to say without giving it a go, so I am.

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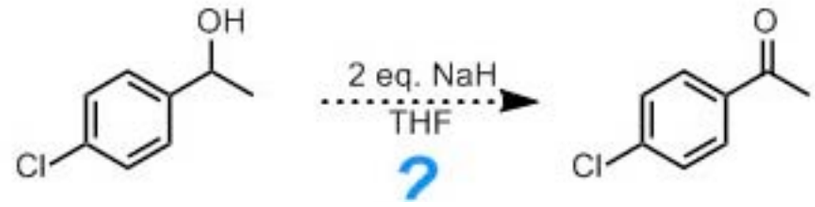
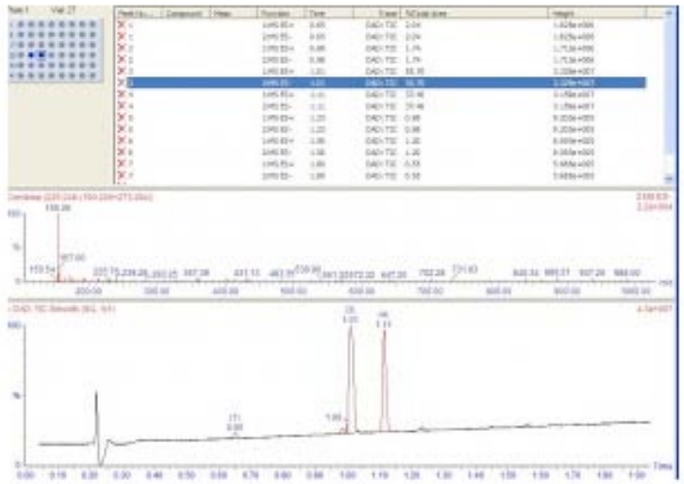


13.20 – Okay, I couldn't wait any longer, so I LCMSed the reaction mixture. This is what I got:



http://totallysynthetic.com/blog/?p=1903

Communication

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Reductive and Transition-Metal-Free: Oxidation of Secondary Alcohols by Sodium Hydride

Xinbo Wang, Bo Zhang and David Zhigang Wang*
School of Chemical Biology and Biotechnology, Shenzhen Graduate School of Peking University, Shenzhen, China 518055

J. Am. Chem. Soc., Article ASAP
DOI: 10.1021/ja904224y
Publication Date (Web): July 21, 2009

dzw@szpku.edu.cn

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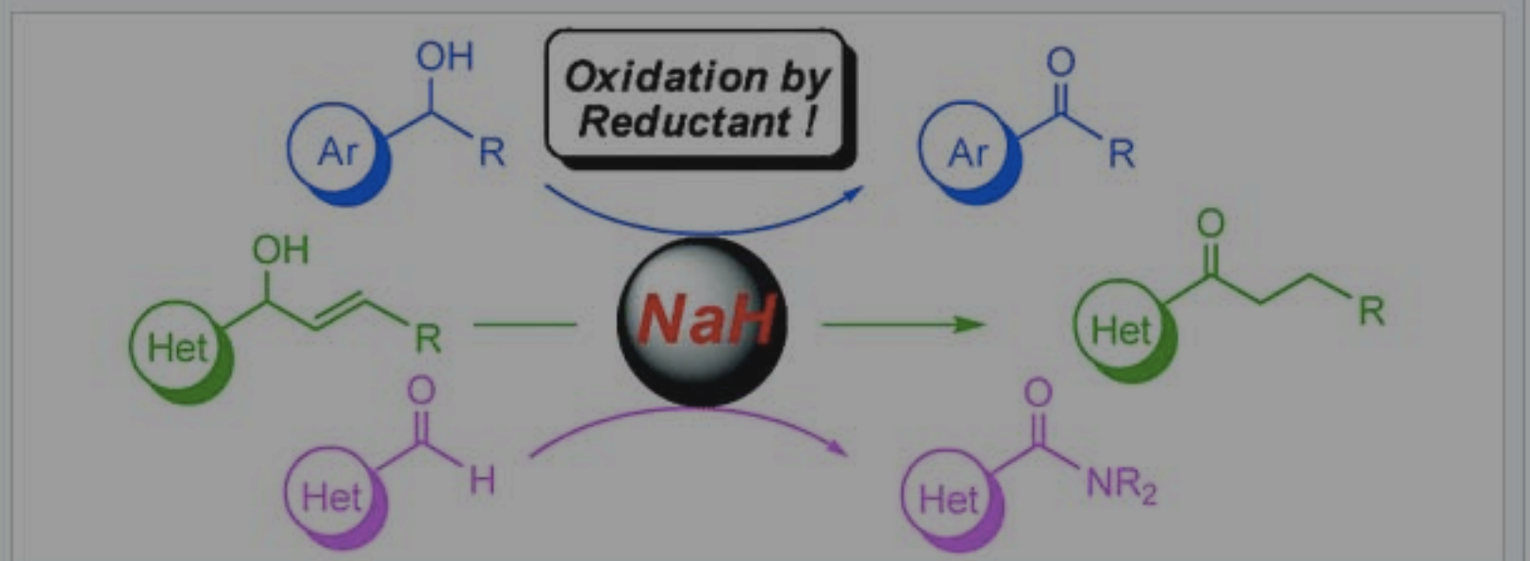
"Retracted for scientific reasons..."

Abstract



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Other ACS content by these authors:

Xinbo Wang
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...even though its a useful reaction

...even if I am interested in oxidation by contaminants

To get the whole picture...

Google "sodium hydride" oxidation alcohols Search Advanced Search

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[Organosynthetic & Organometallic Chemistry: **Oxidation** of Secondary ...]
There is something very weird to catalytic **oxidation** of benzylic **alcohols** by **sodium hydride**. I'd follow your bet on the impurity profile of NaH. ...
tvv2008.blogspot.com/.../**oxidation**-of-secondary-**alcohols**-by.html - Cached - Similar

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... with strong bases such as **sodium hydride** or reactive metals such as sodium. .... The direct **oxidation** of primary **alcohols** to carboxylic acids normally ...
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Jul 22, 2009 ... Given that **sodium hydride** is, well, a hydride – this is quite something. ... is as suspected – **oxidation** of the alkoxide by some trace oxidant. ... It's also true that the starting materials – benzylic **alcohols** – are ...
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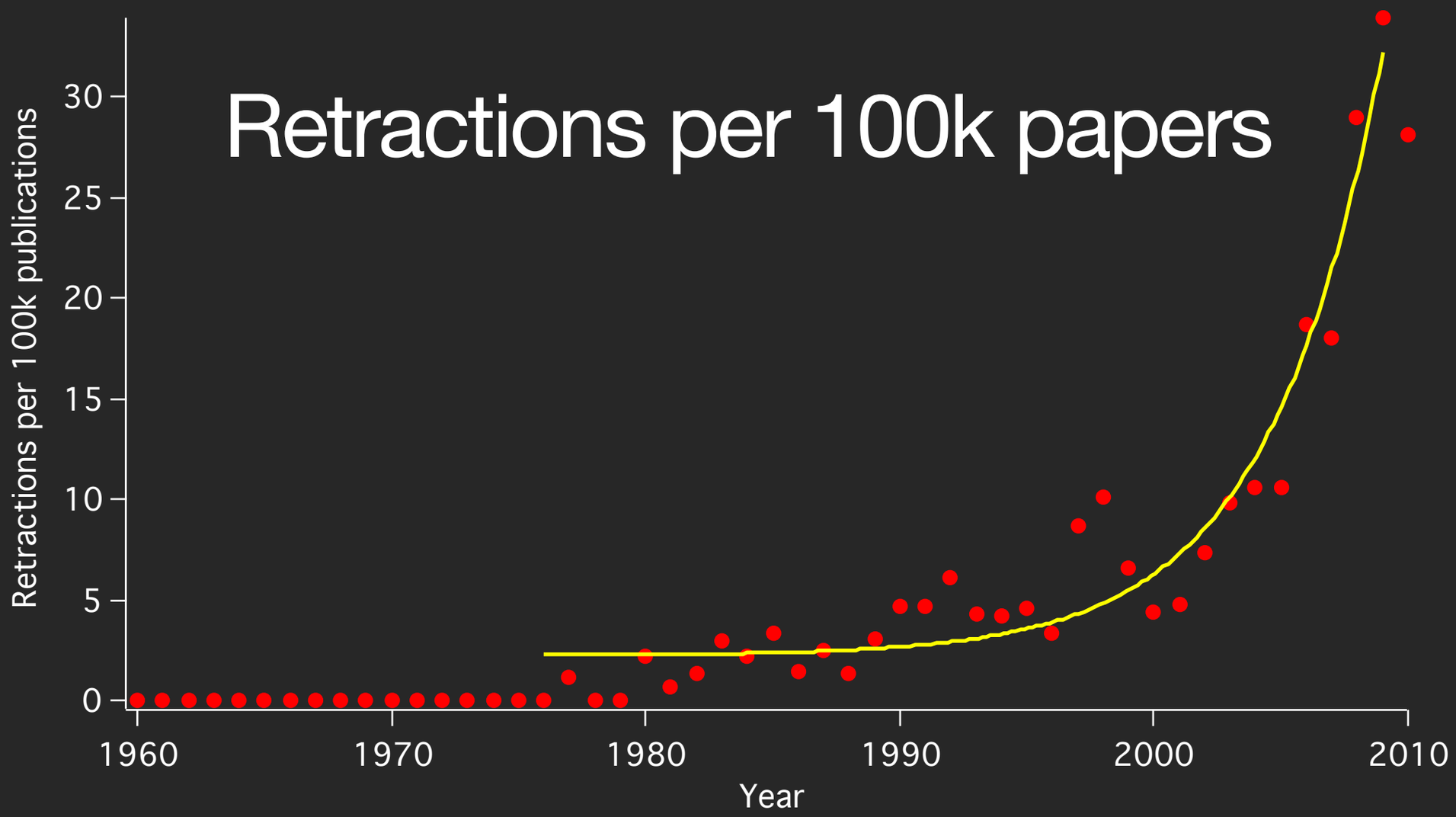
...and its getting worse

Retractions per 100k papers



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Crude. Binary. Inappropriate.

A gatekeeper is needed in a broadcast world...

Someone had to choose...

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Floods of information...

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...content from all directions


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...and embrace that
as a good thing...

Every book its reader...

Ranganathan's third law of libraries

Every book its reader...

Ranganathan's third law of libraries

And today it is technically feasible

All we need to do is connect them...

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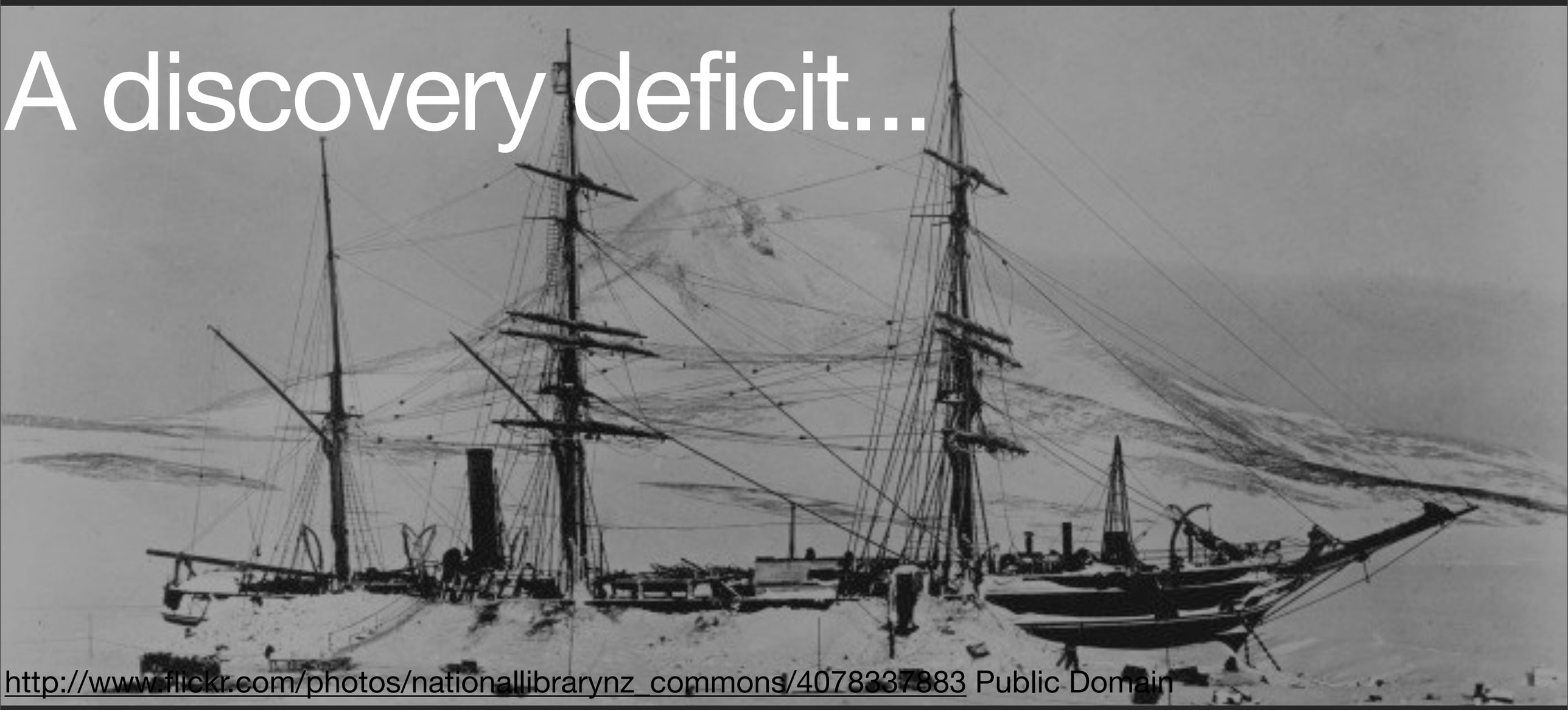
It’s not filter failure

A discovery deficit...



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Is search the answer?

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A blunt instrument...

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...not every problem is a nail

So is there an answer?

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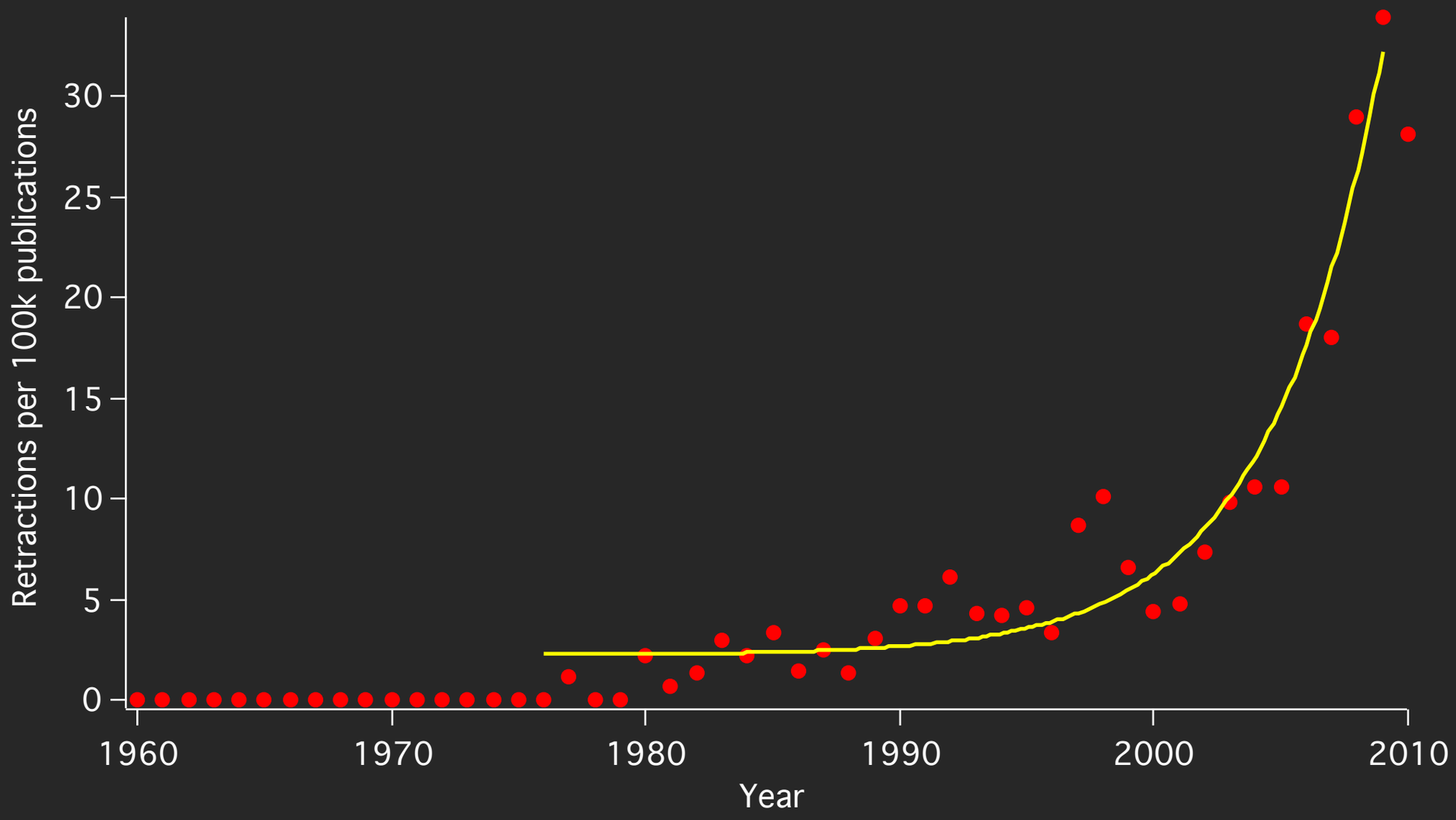

https://github.com/neilfws/PubMed/blob/master/data/retractions.txt

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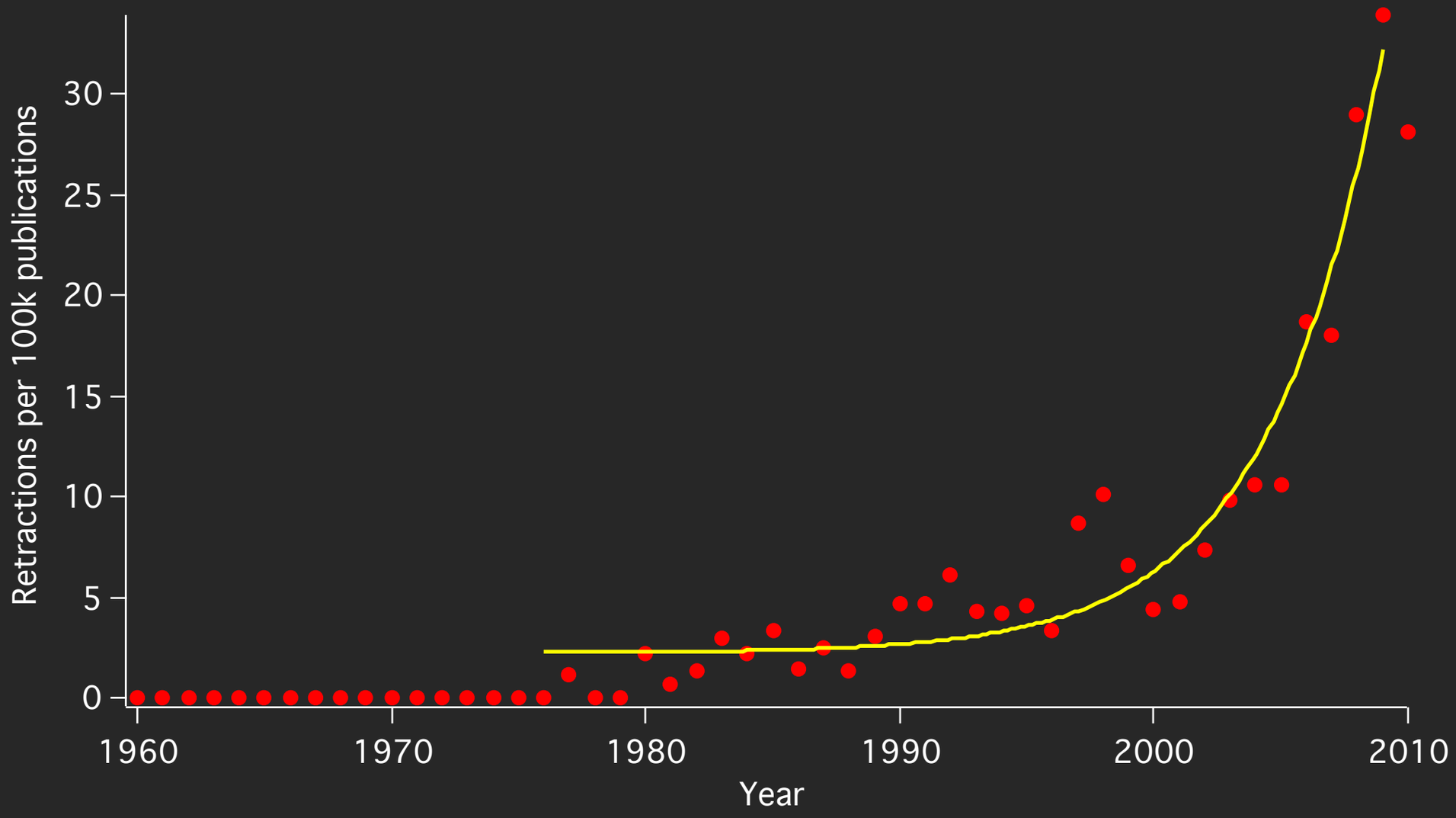

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Where did it come from...?

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Geoffrey Bilder

So how many retractions are there every year, anyway?
« Retraction Watch -
http://retractionwatch.wordpress.com/2010...

Monday from delicious - Comment - Share

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For PubMed, use the query "Retraction of Publication[Publication Type]". This returns 1621 results. Last year (2009), there were 289, from 852 183 total publications. And here's a quick graph - http://twitpic.com/3bazq4 - based on this code - http://nsaunders.wordpress.com/2010.... - Neil Saunders

Here's a graph of the same, but normalized by # of published papers. http://i.imgur.com/NVkEF.png See this thread:http://friendfeed.com/neilfws... - Chris Miller

http://friendfeed.com/gbilder/711e6278/so-how-many-retractions-are-there-every-year


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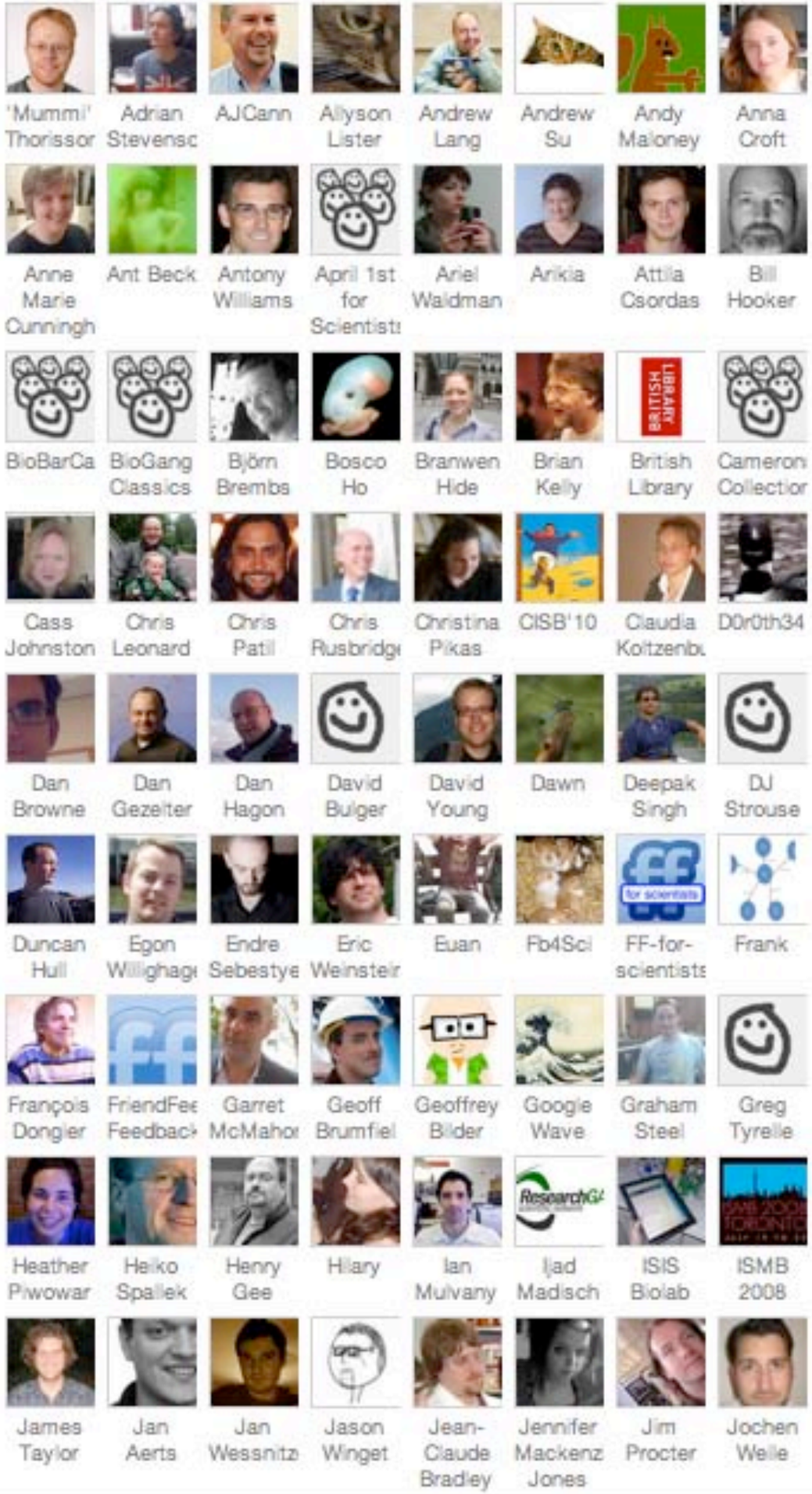
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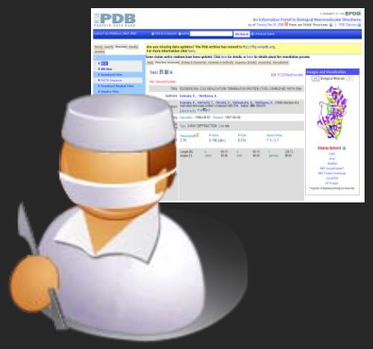

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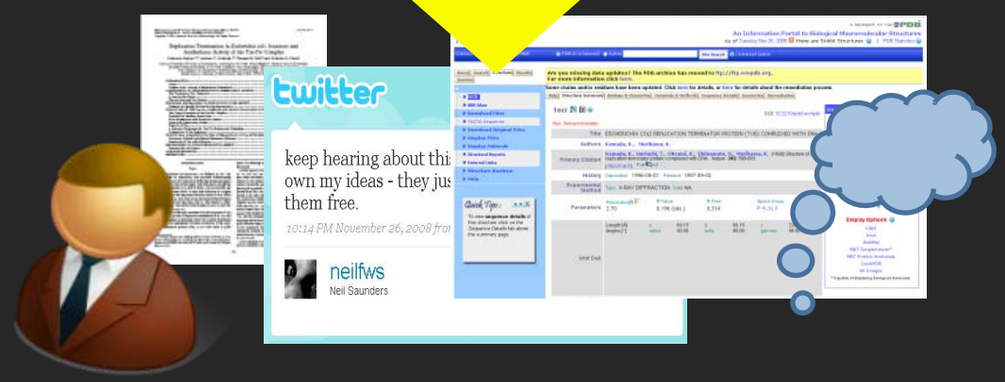
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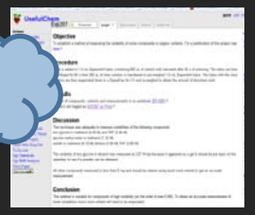


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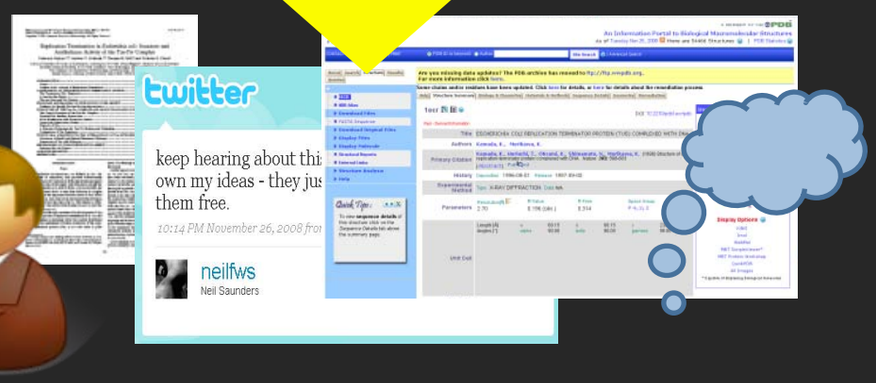
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Social *aggregation*...

...but also...

FriendFeed

Geoffrey Bilder

So how many retractions are there every year, anyway?
« Retraction Watch -
http://retractionwatch.wordpress.com/2010...

Monday from delicious - Comment - Share

You, Bill Hooker, Greg Tyrelle and 8 other people liked this (Un-like)

For PubMed, use the query "Retraction of Publication[Publication Type]". This returns 1621 results. Last year (2009), there were 289, from 852 183 total publications. And here's a quick graph - http://twitpic.com/3bazq4 - based on this code - http://nsaunders.wordpress.com/2010.... - Neil Saunders

Here's a graph of the same, but normalized by # of published papers. http://i.imgur.com/NVkEF.png See this thread:http://friendfeed.com/neilfws... - Chris Miller

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FriendFeed

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Social *annotation*

...but also...

What You're Doing Is Rather Desperate

Notes from the life of a bioinformatics researcher

Analysis of retractions in PubMed

As so often happens these days, a brief post at FriendFeed got me thinking about data analysis. Entitled "So how many retractions are there every year, anyway?", the post links to this article at Retraction Watch. It discusses ways to estimate the number of retractions and in particular, a recent article in the *Journal of Medical Ethics* (subscription only, sorry) which addresses the issue.

As Christina pointed out in a comment at Retraction Watch, there are thousands of scientific journals of which PubMed indexes only a fraction. However, PubMed is relatively easy to analyse using a little Ruby and R. So, here we go...

Code and raw data used for this post are available at Github.

1. Searching for retractions

In the *Journal of Medical Ethics* article, the authors state: "Every research paper noted as retracted in the PubMed database from 2000 to 2010 was evaluated. PubMed was searched on 22 January 2010 with the limits of 'items with abstracts, retracted publication, English.' A total of 788 retracted papers were identified..."

Not a bad approach. There's another way: at the PubMed website, find a retraction and examine the record in XML format. You'll see this:

```
1 <PublicationTypeList>
2   <PublicationType>Retraction of Publication</PublicationType>
3 </PublicationTypeList>
```

http://nsaunders.wordpress.com/2010/11/30/analysis-of-retractions-in-pubmed/

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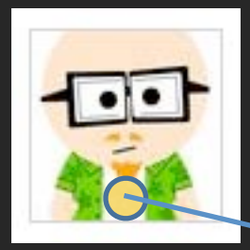

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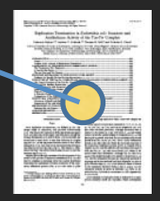

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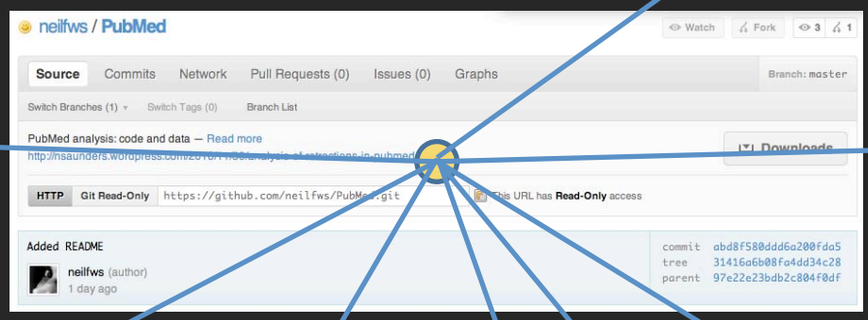
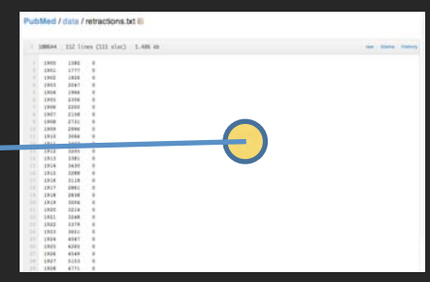
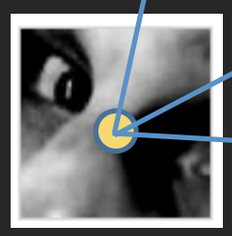






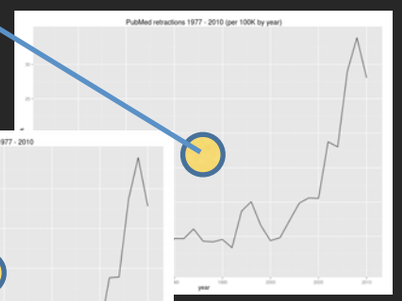
Neil Saunders

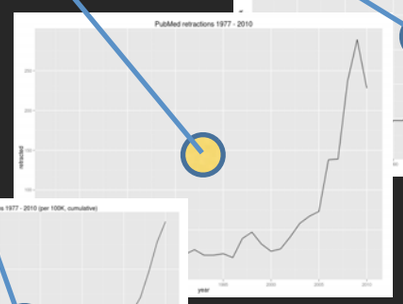
Really liking github as a "mini-project management" solution; grab data, quick script, generate output, push and you're done.

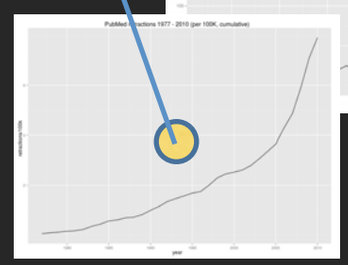
yesterday from Twitter - Comment - Share

You, Heather Piwowar, Cass Johnston and 3 other people liked this (Un-like)

..and publication platform...pulling down your data and re-plotting as I type... - You (edit | delete)







A network of linked objects...

analysis retractions pubmed - Google Search

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https://github.com/neilfws/**PubMed**/blob/master/code/.../**retractions**.R - Cached

Analysis of **retractions** in **PubMed**:... - Deepak Singh - FriendFeed
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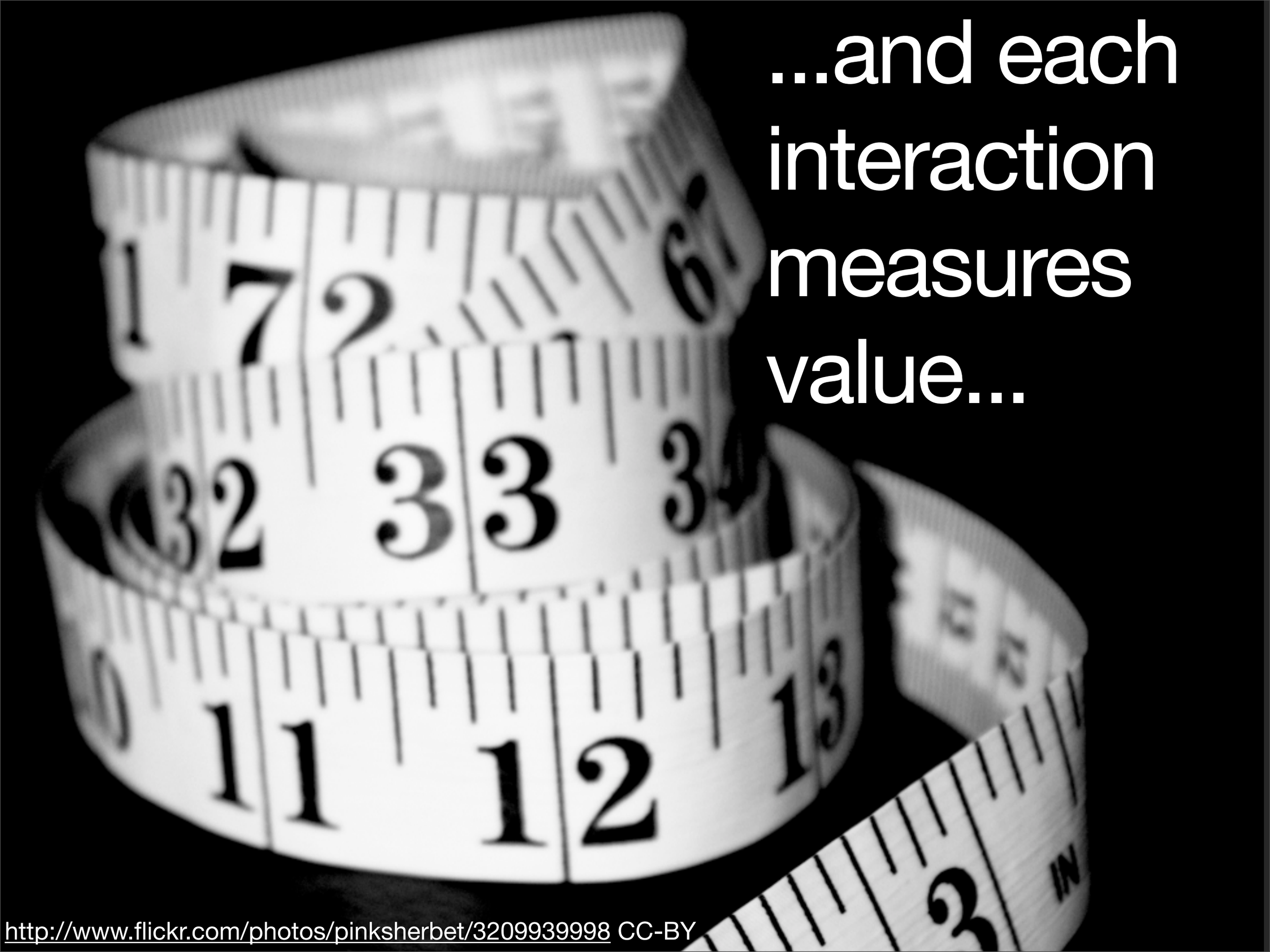
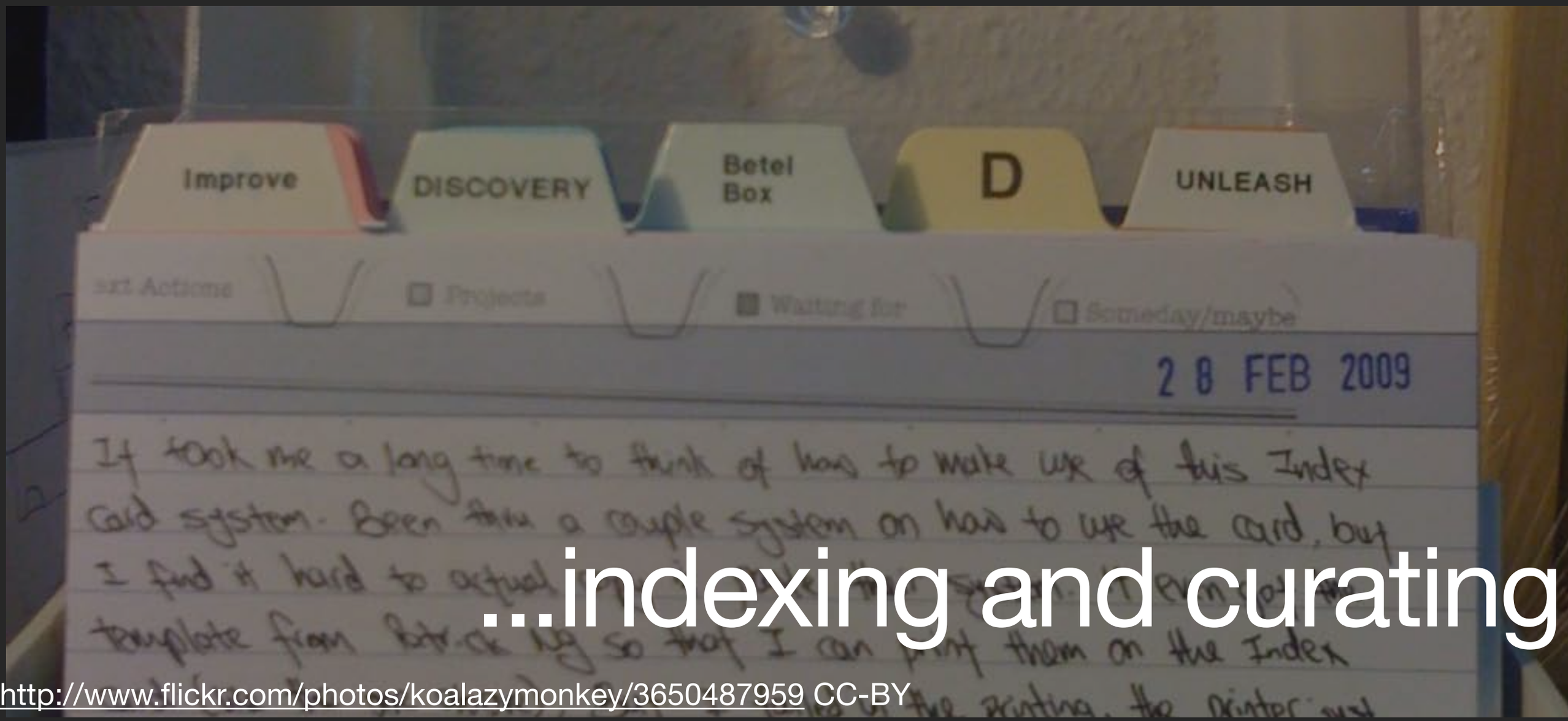
Primed for discovery...

Each interaction adds value...

...and each interaction measures value...



...adding pieces to my collection



My collection.

My collection.

Not your collection.

My filters.

Not your filters.

?

Simply connect.

People with content...

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...content with content....

http://www.flickr.com/photos/nufkin/243437309 CC-BY

...but above all...

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The gatekeeper is dead...

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We are the gatekeeper...

...all of us

Enable. Don’t block.

Build platforms.

Not destinations.

Sell services.

Not content.

Don’t think about filtering.

Don’t think about control.

Enable discovery.

cn@cameronneylon.net
http://cameronneylon.net
http://slideshare.net/cameronneylon
Twitter: @cameronneylon
Friendfeed: cameronneylon

Thanks to:
Sciencetwists, Friendfeeders, and the wider online community for ideas, criticism, and conversations. Deepak Singh, Larry Lessig, Andy Powell, and John Wilbanks for presentation inspiration.