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12 Years Plus an IR Manager

Paul Royster University of Nebraska-Lincoln, proyster@unl.edu

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2 + YEARS AN IR MANAGER

Paul Royster Heartland Users Group Meeting, Rolla, MO

October 12-13, 2017



What you are about to hear and see are my own personal opinions.

It is **not** the approved or accepted official policy of the University of Nebraska-Lincoln Libraries.

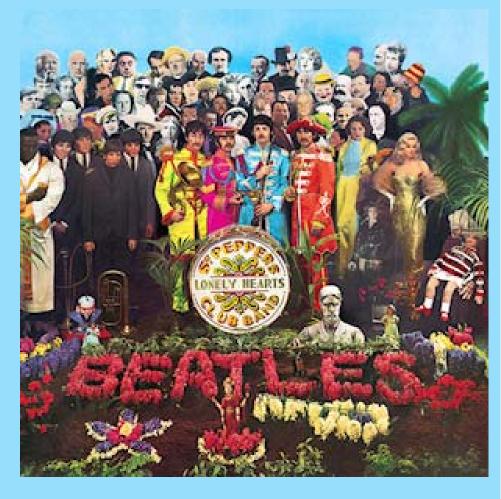
I am solely personally responsible.



First of all ...

It's wonderful to be here.

I am delighted that all you all came out. I will do my best to educate or entertain. *"Bless your hearts."*



"It's wonderful to be here, It's certainly a thrill. You're such a lovely audience, We'd like to take you home with us."

Secondly,

I admit to being an elderly white man, an anachronism, a veritable Dodo (*Raphus cucullatus*).

But, if I have learned anything, it is

"You got to be who you are."



(Hooded Doda .-

So, why me?

Why Nebraska?



Our University

- Established 1869
- 6 blocks from state capitol
- 24,500 students, 1650 faculty, 3700 staff
- Degrees awarded: 3700 BA, 800 master's, 300 PhDs
- Annual budget: \$1.2 billion (after budget cuts)
- <u>Research budget</u>: \$250 million
- <u>Library budget</u>: \$15 million
- Institutional repository started in 2005





#6 Institutional; #3 University

ME NORTH AMERICA LAT		ROPE ASIA AFRICA ARAB WORLD OCEANIA	Universities		pitals	Business Schools	Center
Current Edition	Top In:	stitutionals					
January 2017 (2017.1.0) About Us	World Rank	Portal	Country	<u>Size</u>	<u>Visibility</u>	<u>Files</u> <u>Rich</u>	scholar
About Us	1	(1) Smithsonian/NASA Astrophysics Data System	1	1	1	1	1
Contact Us	2	NASA Technical Reports Server		56	3	3	2
About the Ranking	3	University of California eScholarship Repository		231	2	2	9
Objectives	4	CERN Document Server	•	11	9	5	7
Resources	5	MIT Institutional Repository		94	5	4	37
	6	University of Nebraska Lincoln DigitalCommons		336	6	6	17
 Best Practices Links 	7	University of Michigan Deep Blue	-	113	8	7	77
	8	Universiteit van Amsterdam Digital Academic Repository	=	57	24	21	3
****	9	HAL Institut National de Recherche en Informatique et en Automatique Archive Ouverte		39	10	17	43
MAJESTIC	10	HAL Sciences de l'Homme et de la Société	11	96	19	16	30

The university's most-visited site: 16% of all web traffic !

a Alexa	n mazon.com ompany	Features 🔻	Resources 🔻	Pricing	Log in	SIGN UP
GROW YOUR	Where do visitors go on unl.edu?					?
BUSINESS USING ALEXA	Subdomain					Percent of Visitors
	digitalcommons.unl.edu					16.43%
 Keyword Difficulty Tool 	unl.edu					10.17%
 Competitor Keyword Matrix On-Page SEO Checker 	login.unl.edu					9.21%
SEO Audit Tool	astro.unl.edu					5.75%
Audience Overlap Tool Competitive Intelligence	droughtmonitor.unl.edu					5.61%
		Upgrade to View				

Personal background





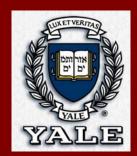


Son of a professor of mathematics, department chair, dean, and vicepresident; mother was an M.A. in math; graduated from college at 19. My only sibling (brother) attended **Sewanee** (B.A.) and **LSU** (PhD), taught math at UT-Austin, UNC-Charlotte, and now at UK.

More personal bio







Me: AB **Princeton** 1975, MA U. **Michigan** 1977, PhD **Columbia** (in English) 1984.

I worked 20+ years in publishing for non-profit in NYC (Library of America), commercial (Barron's Educational Series), and scholarly (Yale UP and U. of Nebraska Press)

Just for the sake of honest disclosure: I was fired from 2 of these jobs.





Me in 2005



"On the beach" (i.e., soon to be unemployed) in Lincoln, Neb., and UNL Libraries held a national search for a "Coordinator of Scholarly Communications" specifically to manage the new IR just established by Dean Joan Giesecke. I applied because I was applying for everything at that time.

I had family, and I needed a salary and healthcare.

I did the job talk and the interviews and they decided either to hire me or re-open the search. I took a big cut in pay, but I got a nice office and a smart boss.

My mission

1. Recruit content and faculty participation for the IR

2. Advise on copyright issues

3. Assist collection development decisions



About our IR

274 communities

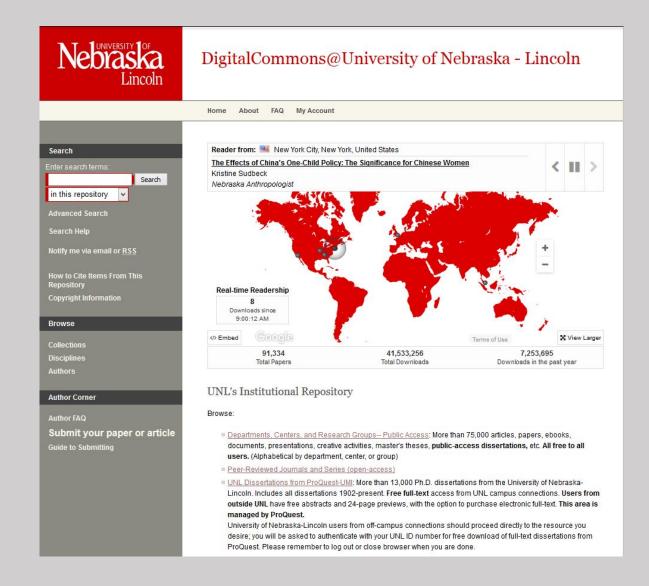
910 series

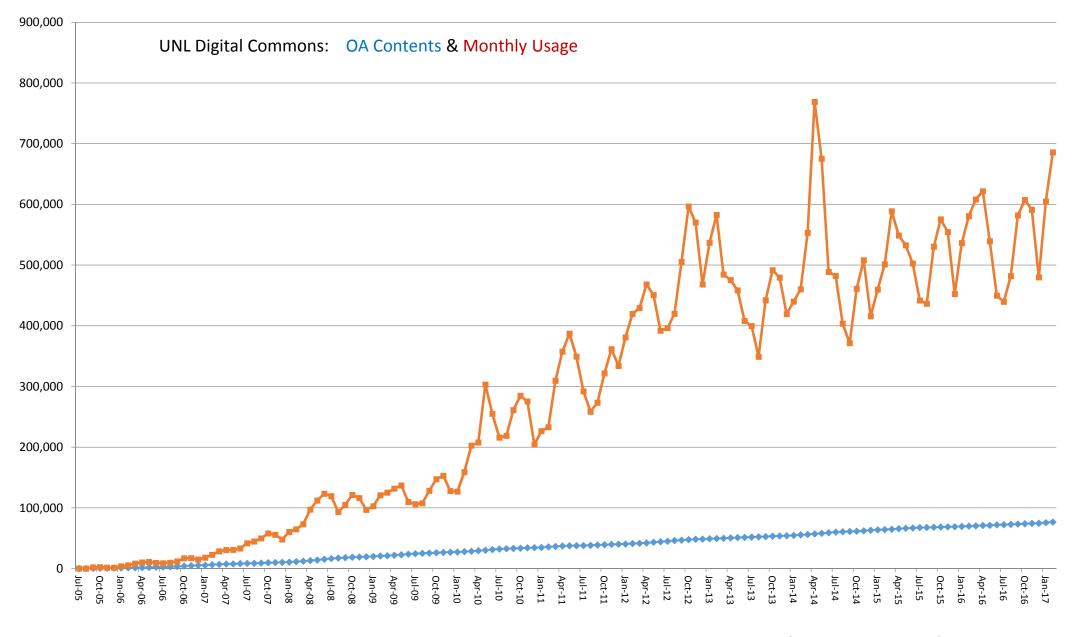
94,000 items

79,000+ are free full-text public

44 million downloads (to date)

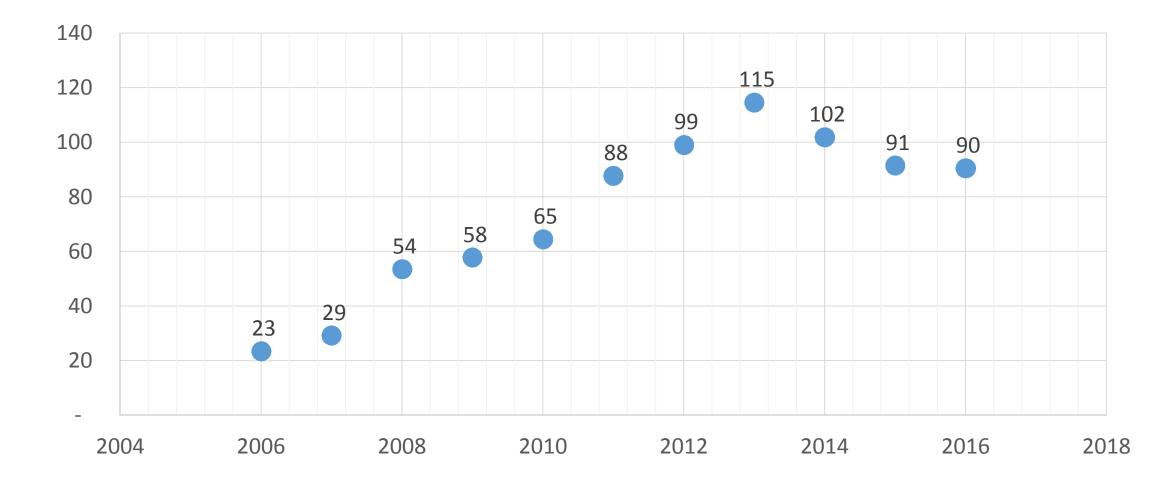
7 million downloads annually





12-Year Trends: Contents and Monthly Usage (downloads)

Annual avg downloads per article



Most popular series (past 90 days)

- 1 Library Philosophy and Practice (e-journal)
- 2 Historical Materials from UNL Extension
- 3 Nebraska Tractor Tests, 1920-2007
- 4 Electronic Texts in American Studies (OER)
- 5 ETDs from Educational Administration
- 6 Faculty Publications, Management Department
- 7 Robert Katz Publications (Physics OER, mainly)
- 8 Faculty Publications, Department of Psychology
- 9 ETDs from College of Education and Human Sciences
- 10 Nebraska Law Review (journal)

2 journals
2 ETD series
2 OER series
2 university publications
2 faculty articles series
-

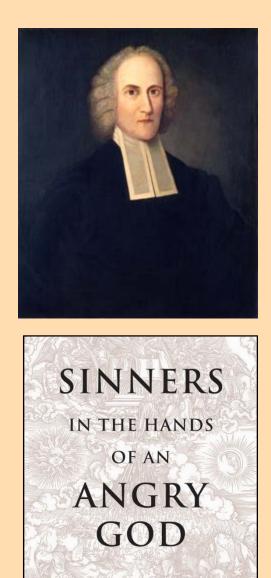
Most popular item

<u>Sinners in the Hands of an Angry God. A</u> <u>Sermon Preached at Enfield, July 8th, 1741.</u>

556,109 Downloads

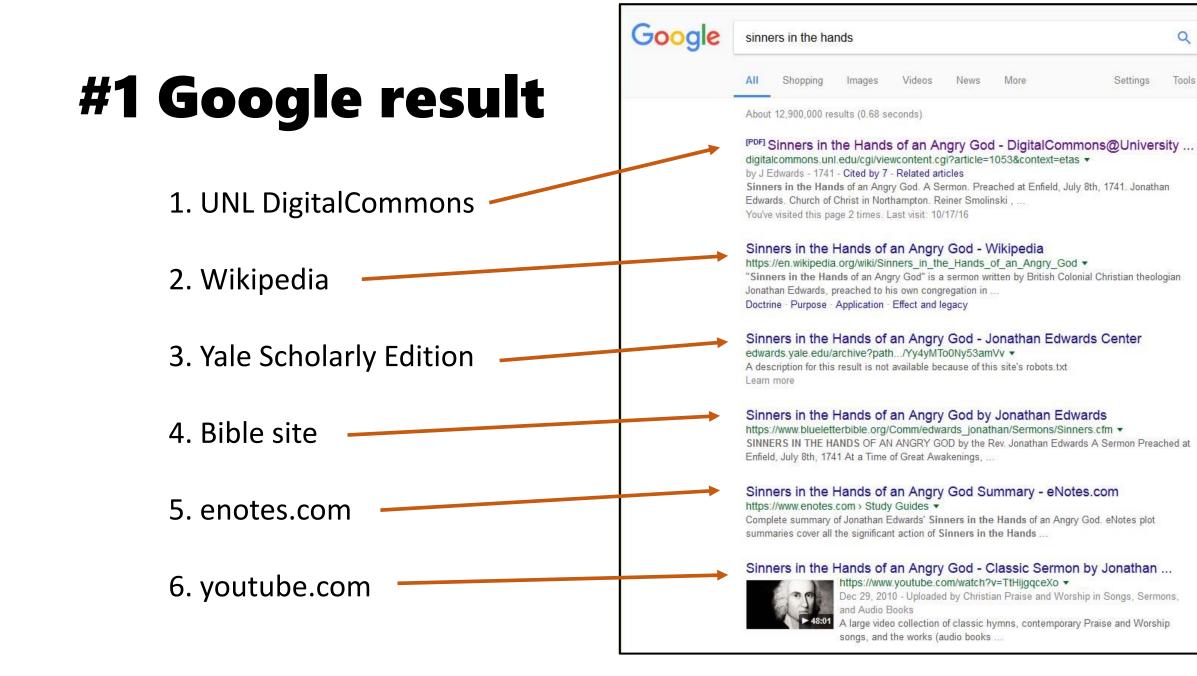
January 28, 2011-October 7, 2017

A public-domain open educational resource A text taught in English, history, religion, & American studies courses and in Sunday schools.



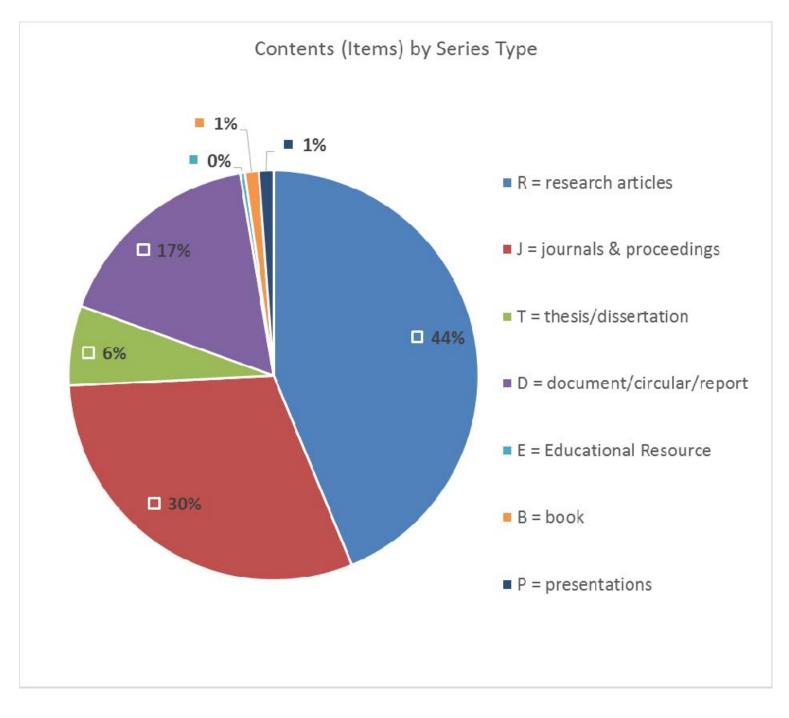
A Sermon Preached at Enfield, July 8th, 1741

Jonathan Edwards

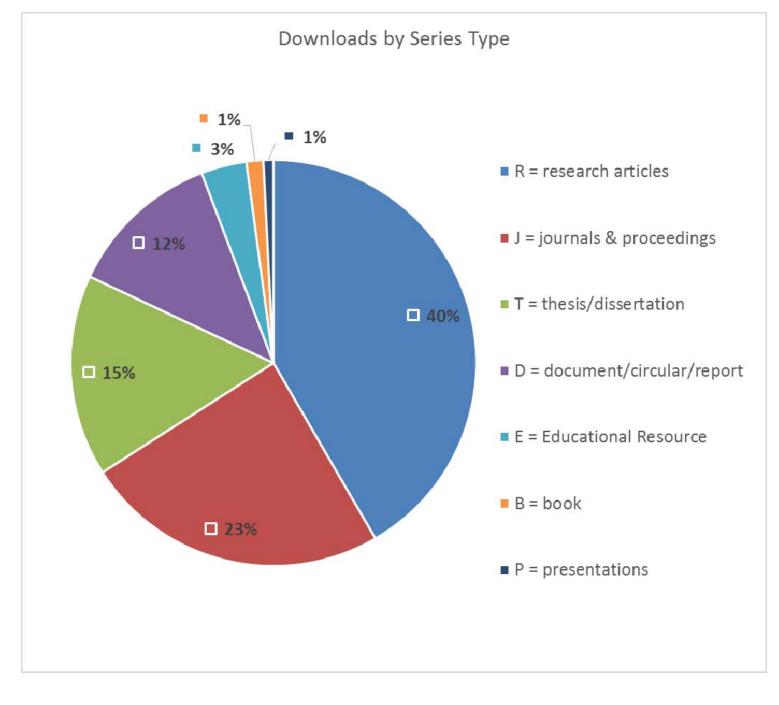


Q

2016 contents by series type



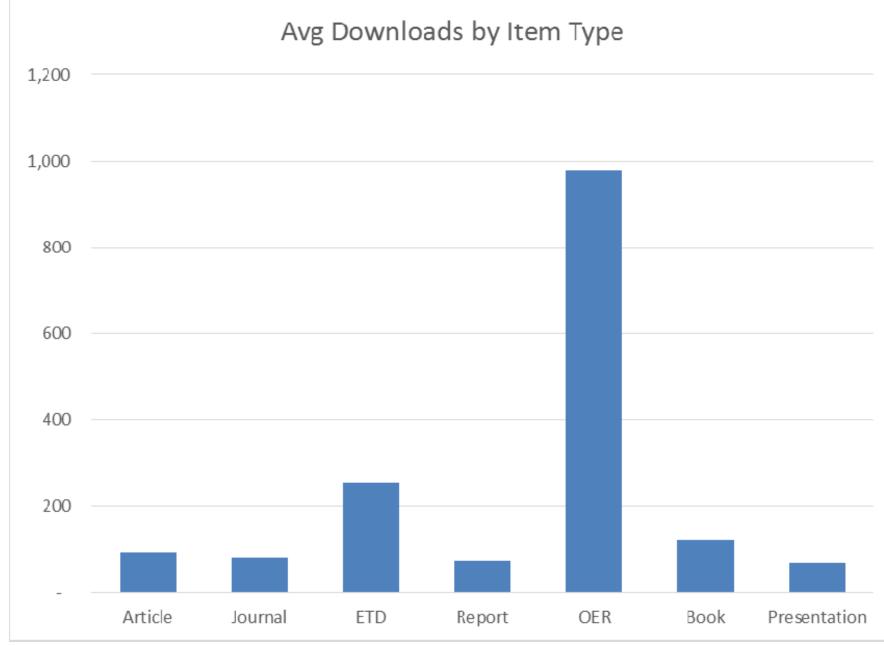
2016 downloads by series type



TypeContent %Download %

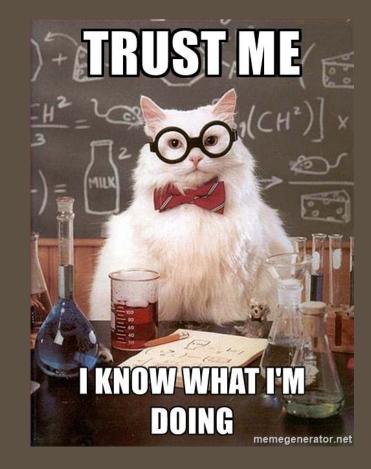
Research articles	44	40
Journals	30	23
ETDs	6	15
Documents/reports	17	12
Open Educ Res	0	3
Books	1	1
Presentations	1	1

Avg downloads by item type



Q: What is the IR's greatest asset?

A: The trust of the faculty = their willingness to (allow) deposit



Participation should be voluntary

I do not believe in creating rules for others to follow.

Inspire, don't require.

No surer way to erode the faculty's trust than to place a new burden on them.

Who is the IR's competition for faculty trust?

Mendeley

SSRN

Academia.edu

ResearchGate



SSRN vs. UNL's IR

For total repository

	items	downloads	/item
SSRN (1994)	708,000	100,000,000	141
UNL's IR (2005)	77,222	41,533,256	538

1/9th the content, but almost 4 times the downloads in 1/2 the time.

SSRN was purchased by Elsevier in May 2016

Just look at my personal results

I have about 200 items—articles, documents presentations, white papers, and OER's—in the **IR** and listed in **Academia.edu** and **ResearchGate**.

What were my usage stats for one week last month?



Academia.edu

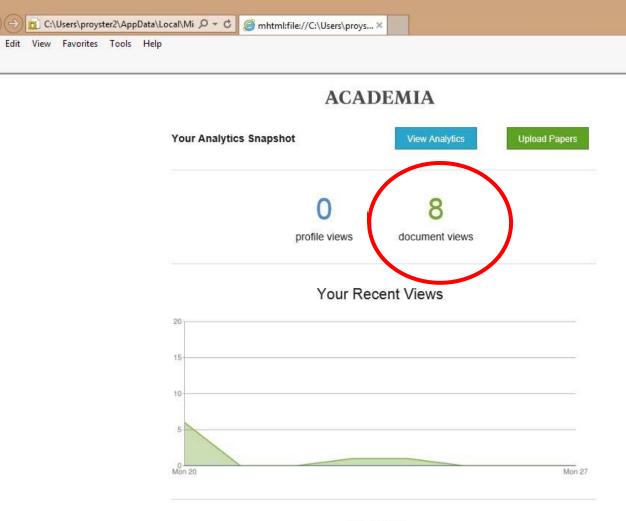
8 document views

File

5

Academia.edu has:

50 million user accounts18 million papers uploaded18 employees



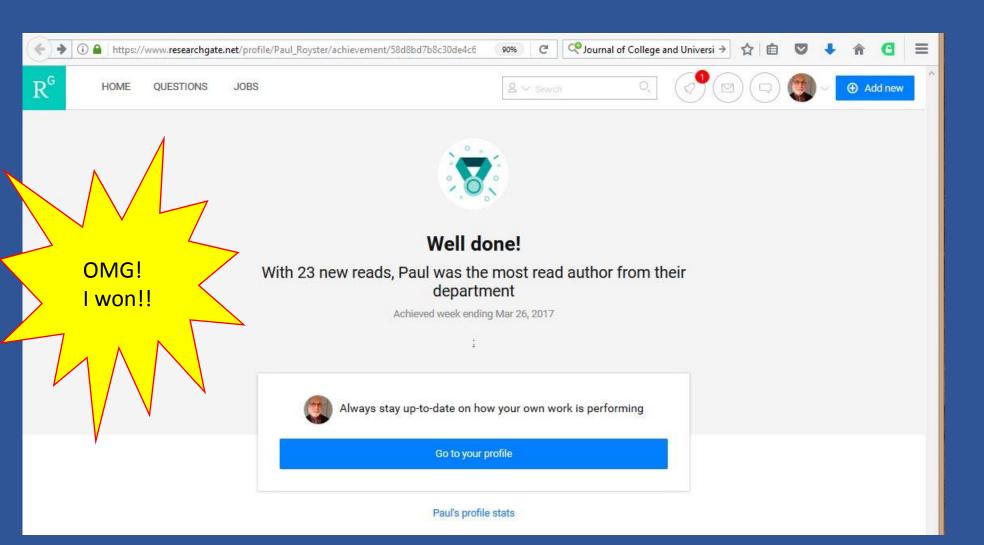
Highlights

Google India was your biggest source of traffic for the week, bringing you 4 visits.

1 visitor found your page by searching for "palpans are zooid."

Your most popular paper for the week was ACRL Tailgate 2011: 1.) IR Content from" Off the Beaten Track" and 2.) Books and Such, which had 7 views.

ResearchGate – 23 reads!



ResearchGate has:

- 11 million user accts
- 100 million article listings
- 186 employees
- Investors that include Goldman Sachs, Wellcome Trust, & Bill Gates

UNL DigitalCommons = 1,470

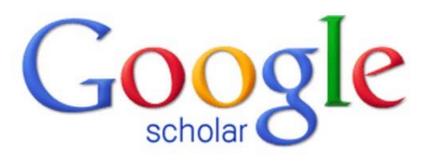
217 195
212
212
242
197
231



Who are our allies?



92.7% of our referrals come via a Google source.





[Aside]

Karl Reinhard, Professor of Environmental Archaeology and Forensic Science:

"My H-index went from 35 to 46!"



Studies mummies and coprolites.

Where (who) are the obstacles?

Our biggest opponents and critics have been not publishers, not faculty,

not authors,

not students,

but:

from within the Library !



Complaints

We can't do that. We shouldn't be doing that. That's not what it's for. We don't do that. Why are we doing that? Can't be found in the catalog. Metadata may be corrupt! No collection policy.



It's not a collection.



It's a service.



Services provided:

permissions & copyright clearance hunting & gathering scanning typesetting metadata-ing uploading & posting usage reporting promoting POD publishing



"Beyond Mediated Deposit"

The IR belongs to the faculty.

Not the library, not the university, not the public.



The content does not belong to us!

We didn't buy it, or rent it, or lease it.

We don't own it.

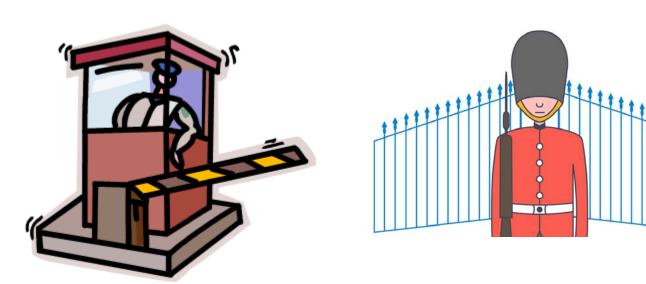
We only have permission to distribute it.

Permission can be withdrawn at any time.



We are not gatekeepers ...

arbiters, enforcers, approvers, censors, regulators, or judges.





Don't build a wall to keep content out !



Err on the side of inclusiveness



Every possible person

Every possible item, regardless of date, format, etc.



Make it easy.



ITS AS EASY AS ...



How do I get my articles into the repository ?

1. email me your vita (or publication list)

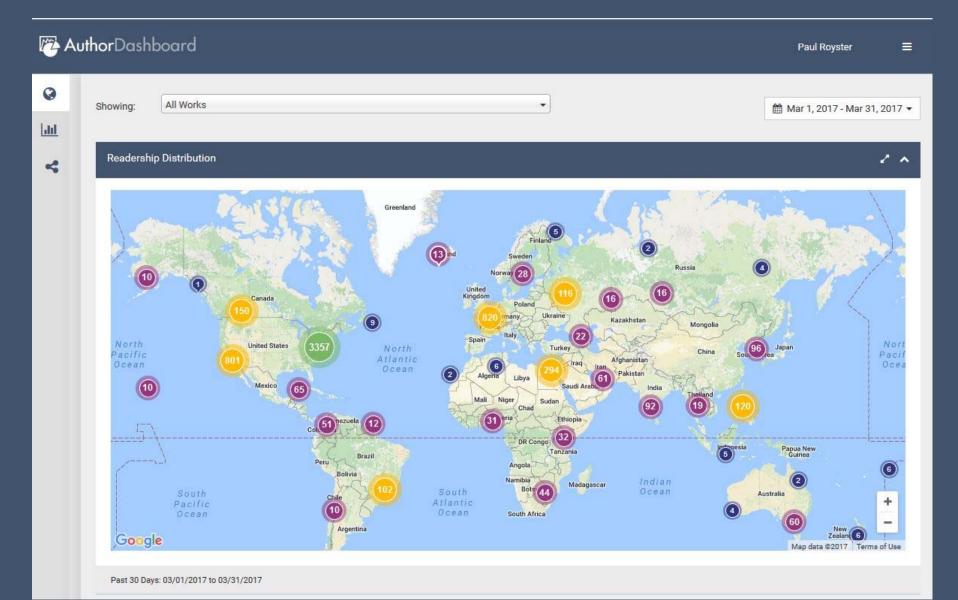
proyster@unl.edu

(There is no 2 or 3)





Give immediate feedback



Accept disorder

Don't let perfectionism interfere with task completion.

Progress comes out of disorder.



The greatest feeling in life is ...

The joy of **giving**.

I get that feeling every day at work.

We provide distribution to the overworked and underappreciated faculty.

We provide information to people in the farthest, remotest, and least-served places on the earth.

Ushuaia, Tierra del Fuego, Argentina Palmyra Atoll, U.S. Minor Outlying Islands Atuona, Iles Marquises, French Polynesia Qaqortoq, Kommune Kujalleq, Greenland Lavrentiya, Chukotskiy, Russian Federation Iqaluit, Nunavut, Canada Barrow, Alaska, United States

Things "I jes' despise"



Supplementary files

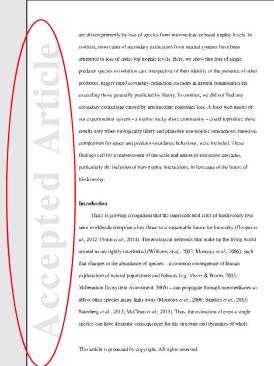




Watermarking



e.g.: "Downloaded from http://advances.sciencemag.org/ on March 14, 2017"



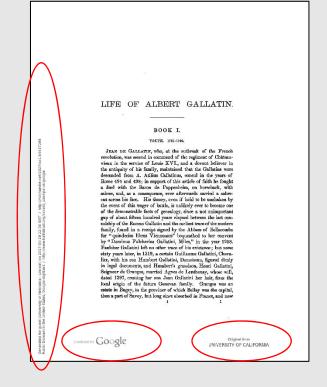
Does stamping

this on every

page increase

its authority?

This page (from Hathi Trust) has 3 different watermarks on **every** page.





My <u>suggestions</u> for good practice

These are suggestions only.

You are the best judge of what is right for your campus and situation.



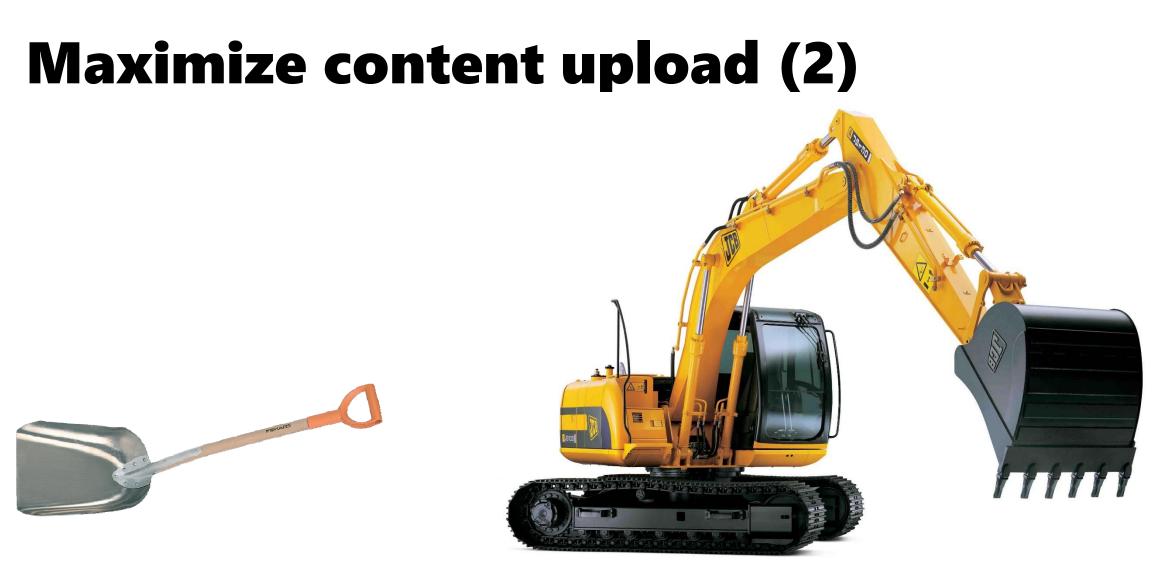
Maximize Content Upload

This may seem obvious, but it bears emphasizing: *If you are not posting documents, you are not approaching the goal* \rightarrow 100% of scholarship freely accessible online.

This is ultimately how the struggle to free scholarly communications will be won.

<u>Repositories' mission</u>: Shovel as much free content as possible onto the Internet.





Good !

Customizations – Icons & Graphics



Construction Management

Communication Studies





Entomology





Documents in Outer Space Law

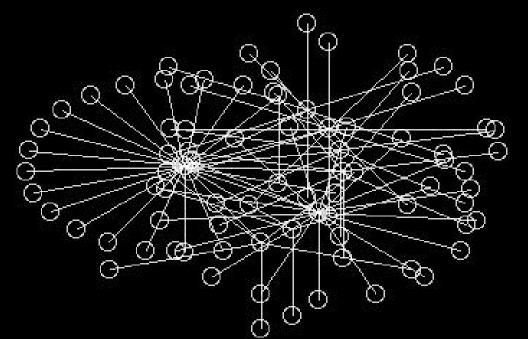
Veterinary & Biomedical Science

Expand the user base

Web-stalk and enter co-author emails.

They become users and visitors.

They become proponents of IRs at their home institutions.



Set up automatic alerts

- PubMed Central
- PLOS
- BMC
- Publishers who support Green OA, especially those who allow use of their files.

Do not use the IR to track faculty productivity ...

... if you can help it.



Student workers are a secret weapon.

Work-study: Government pays 80% Fast learners. Comfortable with copy & paste.



Putting lipstick on the post-prints

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Corresponding author A. A. Gitelson, agi.elson2@uni.edu

University of Nebraska - Lincoln, USA

in contrasting vegetation types are needed.

Abstrac

Contents lists available at ScienceDirect
Contents lists available at ScienceDirect
Remote Sensing of Environment
Journal homepage: www.elsevier.com/locate/rse

Multiple drivers of seasonal change in PRI: Implications for photosynthesis 1. Leaf level

Anatoly A. Gitelson *.*, John A. Gamon b.1, Alexei Solovchenko *

³ Exculty of Criel and Environmental Engineering, Israel Istichute of Technology, Technon City, Usifu, Israel ⁵ Departments of Land & Annospheric Sciences and Mological Science, University of Alberta, Laboraton, Canada ⁴ Paparment of Renegineering, Carating of Bologica, WA, Lonconcov Microso Steri University, Bruesia

ARTICLE INFO

ABSTRACT

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Received 15 May 2016 Received in revised form 1 September 2016 Accepted 22 December 2016 Available online xxxx Kenwants:

Article bistory:

Chimphyl

Carotenoid

Anthucyanin Xanthuphyll cycle

The soal of this study was to explore the relationships between the photochemical reflectance index (PRI) at the leaf level and pigment pools, focusing on the constitutive role of pigments in influencing PRI over seasonal or optogenetic time frames, The purpose was to re-evaluate the role of PRI as an indicator of seasonally shifting pigment (chlorophyll, carotenoid and anthocyanin) contents, and hence photosynthetic activity, across a range of tree and crop species. We studied natural vegetation - three tree species (maple, chestnut and beech) and two managed irrigated and rainfed crop species (maize and soybean), contrasting in photosynthetic pathway and leaf structure, and having wide variation of pigment content and composition. In anthocyanin-free leaves, PRI re-lated to both total chlorophyll (Chl) and carotenoid (Car) contents, however, much closer relationships were found between PRI and Car to Chil ratio (Car/Chil). The sensitivity of PRI to Car/Chil varied widely in tree species with the degree of secondary carotenoids. In crop leaves where the Car vs. Chl relationship was very close, the slopes of PRLvs. Car/Chi relationships for maize and soybean were almost identical PRLvs. Car/Chi relationships for leaves of different tree species formed a significant, uniform relationship with PRI, Two crops also formed a significant, uniform PRI vs. Car/Chl relationship with a slope half the value found for trees. In anthocyanin-containing leaves. PRI did nor clearly relate to any nigment content because reflectance values at both PRI wavebands are affected by anthocyanin content. The findings of a strong link between leaf level PRI and Car/Chl over seasona and ontogenetic time spans supports recent findings calling for a more careful evaluation of the relationship between PRI and either EUE or photosynthetic activity. In particular, studies that contrast short-term (e.g. diurnal) vs, long-term (e.g. seasonal) pigment, PRI, and photosynthetic responses in contrasting vegetation types are

1. Introduction

Corresponding author

The photochemical reflectance index (PRI) was originally derived as an optical indicator of samthophyll cycle activity and photosynthetic light-use efficiency (LUV) over diumal time scales (Garono et al. 1992; 1993; Peñuelas et al. 1995). More recently, a large body of research has demonstrated that PRI is also strongly influenced by pigment pool sizes, particularly in studies spanning seasons (stylinski et al. 2002; Fieldat et al. 2009), multiple space (Sims and Camon. 2002; Carrity et al. 2001; Gamon and Berry, 2012) or canepy positions (Gamon et al. 2001; Camon and Berry, 2012). These two facts of PRI thar reflect the rapid xanthophyll cycle activity and the slower, seasonal or unlogenetic pigment pool size adjustments have been termed the "facultative"

E-mail address: agitelson2@unLedu (A.A. Gitelson). Current address: Center for Advanced Land Management Information Technologies

(CAUMIT), School of Natural Resources, University of Nebraska - Lincoln, USA.

Wong and Gamon, 2015A, 2013B, Both are of interest because they represent physiological adjustmens of photosynthesis to prevailing environmental conditions, one over short (minutes or diurnal) time spans, and another over long (contegencie) consequences and the second texplanations of these correlations are likely to be different (Sims and Gamon, 2002; Solowchenko, 2010; Gamon, 2015; Girelson et al, 2017). This dual nature of PRI along which different adjustments of the photosynthetic pigments occurring over disparate time scales has led to considerable confusion in the PRI literature. Most remote sensing studies of PRI have not directly tessed mechanism at the level of pigment responses, assuming implicitly that the xanthophyll cycle operation is the primary driver of the changing PRI signal.

The issue of the underlying mechanism(s) driving PRI responses has a larger significance. While the majority of studies report positive PRI-LUE correlations for individual circumstances (Garbulsky et al., 2011), some studies suggest that the PRI LUE relationship is not constant

http://dx.doi.org/10.1016/j.rsc.2016.12.014 0034-4257/C-2016 Elsevier Inc. All rights reserved gment, PRL and photosymbolic responses in contrasting vegetation types are
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Keywords: Chlorophyll, Carotenoids, Anthocyanin, Xanthophyll cycle

Published in Remote Sensing of Environment 191 (2017), pp. 110-116. doi:10.1016/j.rse.2016.12.014

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Multiple drivers of seasonal change in PRI:

Implications for photosynthesis 1. Leaf level

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3 Department of Bioengineering, Faculty of Biology, M.V. Lomonosov Moscow State University. Russia

2 Departments of Earth & Atmospheric Sciences and Biological Sciences, University of Alberta, Edmonton, Canada

The goal of this study was to explore the relationships between the photochemical reflectance index (PRI) at the leaf level and pig-

ment pools, focusing on the constitutive role of pigments in influencing PRI over seasonal or ontogenetic time frames. The purpose

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In particular, studies that contrast short term (e.g. diurnal) vs. long term (e.g. seasonal) pigment, PRI, and photosynthetic responses

110

another over long (portogenetic or seasonal) time spans. Both have been shown to correlate with light-use efficiency, but the mechanistic explanations of these correlations are likely to be different (Sims and Gamen, 2002; Solovchenko, 2010; Gamon, 2015; Gits on et al., 2017). This dual nature of PRI along with different ad justments of the photosynthetic pagnents occurring over disparate time scales has led to considerable confusion in the PRI literature. Most remote sensing studies of PRI have not directly tested mechanism at the level of pignent response, assuming implicitly that the karthophyll cycle operation is the primary driver of the changing PRI signal.

The issue of the underlying mechanism(s) driving PRI responses has a larger significance. While the majority of studies report postive PRULUE correlations for individual circumstances (Garbulsky et al., 2011), some studies suggest that the PRI-LUE relationship is not constant across all locations (Nichol et al., 2002; Goerner et al., 2011) and ontogenetic stages (Solovchenko et al., 2010), and it is likely that the different underlying mechanisms discussed above We typeset to match for layout and pagination.

Double-spaced Courier just doesn't seem to project as much authority.

Elsevier's *Gulliver* typeface is set at 8 pt, with captions and tables at 6.5 point: Lilliputian.



Don't be afraid to enhance document presentation or packaging.

Run OCR. Regularize page sizes.

Practice good document design. Don't be afraid to touch the item; it won't bite you. Clean up messy files when possible.

Make it as useful and attractive as possible.

MS Word, Adobe Photoshop, Acrobat, etc.

all enable some degree of control.



Seize publishing opportunities

Repositories can increase research impact exponentially.

KNOCK

Institutions (or societies) can sponsor low investment journals: no paper, no postage, no inventory, no paywalls, free hosting.

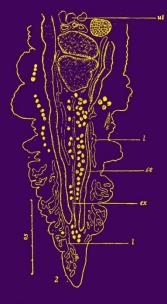
Journals can publish with fast turn-around; no waiting for enough articles to make a full issue.

Original publishing:

Established:2015Sponsor:University of NebraskaEditor:Scott Gardner

MANTER





Parasite Biodiversity

Zea Books

Monograph publishing imprint

55+ books to date

Reference, ornithology, women's studies, parasitology, music, art history, native studies, language education, Holocaust studies

e-books are free online (pdf format)

hard-copy print-on-demand paperback & hardcover

"Zea" is the genus of corn (Zea mays)



Time = Now

- To build communications infrastructure <u>within</u> the academy
- To give authors ways to retain rights and control re-use
- To disseminate scholarship to the widest possible audience
- To stop supporting the exploiters



"All I'm saying is now is the time to develop the technology to deflect an asteroid.

Publishers tell us:

We are in this together.



We are doing it for scholarship/science.

We have similar interests.

We want to work with you.

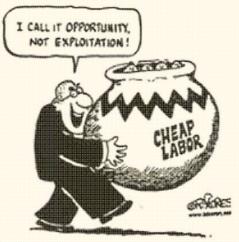


But publishers actually do:

Restrict distribution.

- Earn extravagant profits (some of them).
- Hoard copyrights.
- Exploit authors.

Sue libraries over fair use of educational materials. Circulate misleading advice on copyright issues. Misrepresent their own motives.



What could the future hold?

Lower costs Bigger audiences • Faster publication Wider distribution • More available material More options to publish • More control for authors



Will **author** and **publisher** ever sit down together at the table of brotherhood?



"Peaceable Kingdom with Two Olives" $\ensuremath{\mathbb{C}}$ Will Bullas

Asymmetric contest

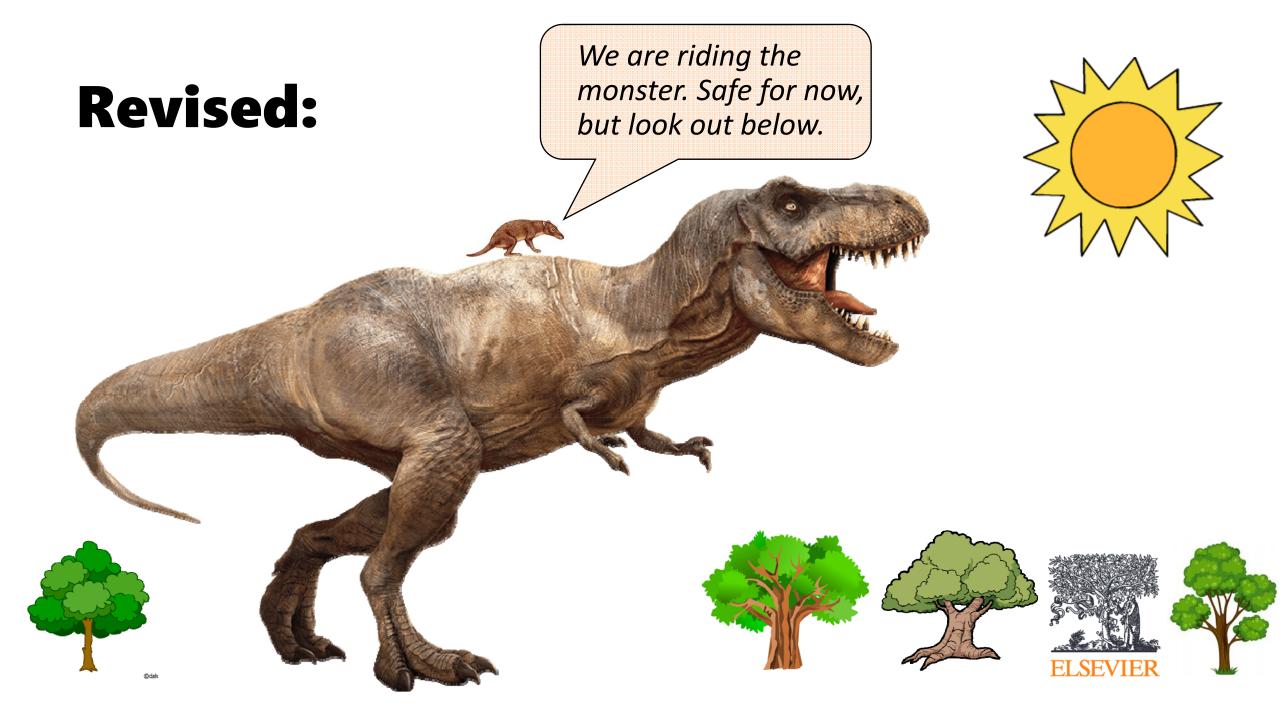
Publisher vs. Author



Publisher



You defeat them not by force but by out-adapting and out-surviving them.



If there are 95,000 educational institutions and 5 large publishers . . .

Who is most likely to prevail?



Repository must be

open free non-commercial ad-free undefended abstracted extractable (i.e. supports "take-out") undivided: no 2nd class access un-watermarked



Two forces are at work

The explosion of creative energy and disruptive innovation, unleashed by technologies of the digital era.



The effort to catalog, classify, regulate, label, organize, and rationalize that explosion.



Does this organizing make it easier for corporate powers to control the output ?

The "Wise Men" of Gotham

Attempted to capture

a cuckoo



by building a hedge around its tree.

THE MERRY TALES The Mad-Men of Gotam. By A. B. Doctor of Phylick. pinted by J. R. for G. Coniers, at the Golden-Ring, en Ludgate-Hill, and J. Deacon, at the Angel in Guilt-Spur-fireet mithout Newgite,

Jorge Luis Borges



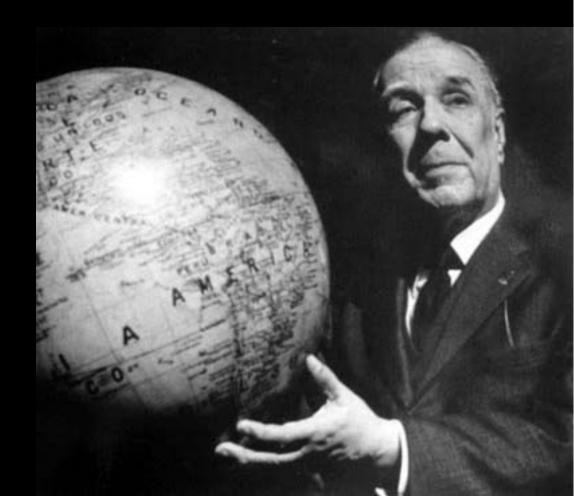
"In a certain Chinese encyclopedia entitled *Celestial Empire of Benevolent Knowledge*, it is written that the animals are divided into:
(a) belonging to the emperor, (b) embalmed, (c) tame, (d) sucking pigs,
(e) mermaids, (f) fabulous, (g) stray dogs, (h) included in the present classification, (i) frenzied, (j) innumerable, (k) drawn with a very fine camelhair brush, (l) et cetera, (m) having just broken the water pitcher,
(n) that from a long way off look like flies."

"The Analytical Language of John Wilkins" (1952)

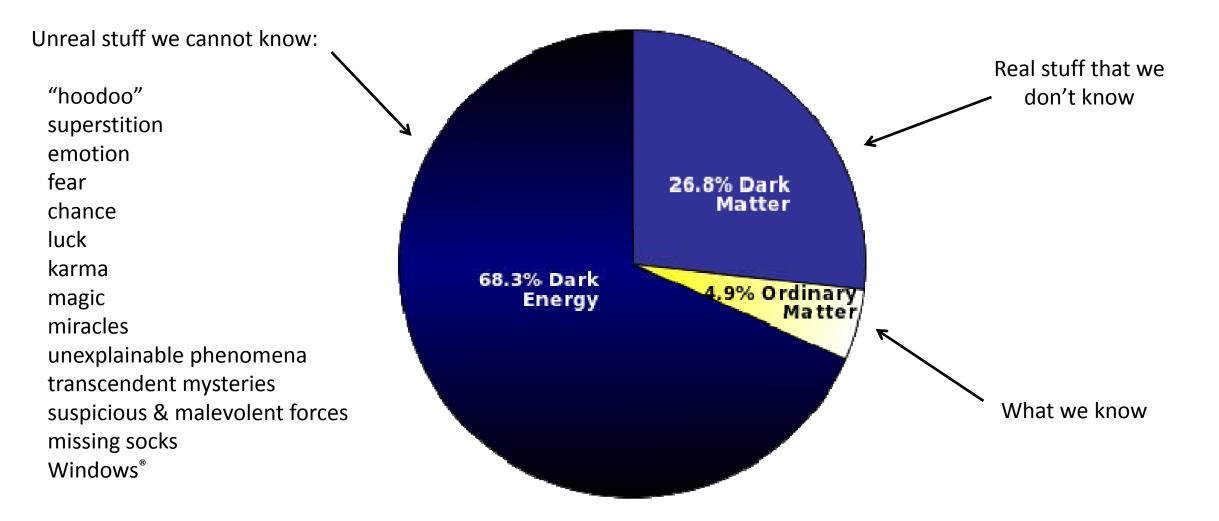
"There is no classification of the Universe that is not arbitrary and full of conjectures.

The reason for this is very simple: we do not know what thing the universe is."

Ibid.

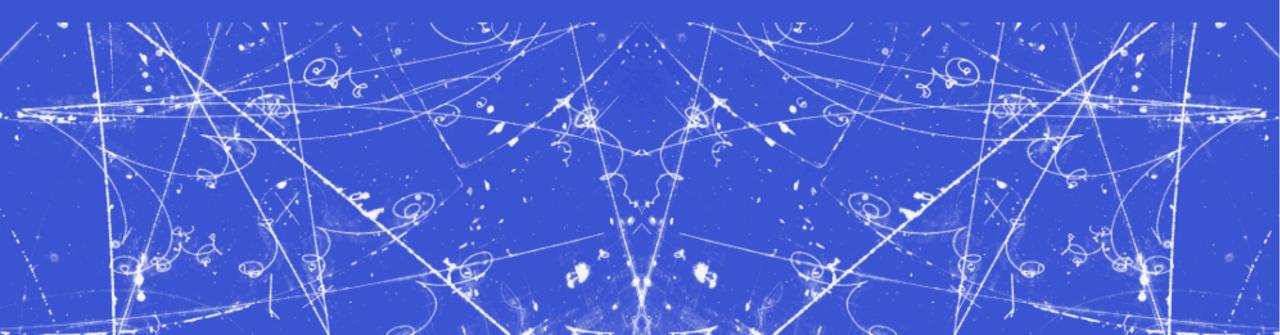


Pie Chart Model of the Universe



Information is like matter

It has gravitational mass. It attracts other information. It has tendency to accumulate. It has charge, spin, and charm.



There's a giant server in California

That's attracting information, crawling with "spiders", and growing more massive by the hour.

Information parked there is not in a silo, but in a teeming, energybursting supernova, spinning off suns, and planets, and comets, asteroids, and (yes) dark holes.



Every article you upload adds to our momentum.

What we are doing is important. What we are doing is working. What we are doing will change scholarly communication. What we are doing will change the academy. What we are doing will change the world.

In time, we will reach a tipping point and the ground will shift.



Paywalls will not stand.

Information will not be restrained.

Truth will out.

"Paul and Silas bound in jail ..."

And suddenly there was a great earthquake, so that the foundations of the prison were shaken: and immediately all the doors were opened, and every one's bands were loosed.

--Acts 16:26



Moral: Miracles do happen.



Question:Is that your plan?Answer:No, that's just my faith.

l recognize

That I am addressing an audience trained to organize, categorize, rationalize, and classify. That's part of what librarians do.

But we do that not for its own sake, but to give users better **access** to information.



I am advocating for more disruption.

Unleash the chaotic, uncontrolled, unpredictable, unfettered, subversive creative energy.

Innovation is a cuckoo that can't be contained in a hedge.

You cannot control the power of 1 billion Internet users; but you can surf on it. You just need to be **adaptive** and **pragmatic**.

Change is inevitable. Embrace it. Let's see where it goes.

Trust yourself. We can do this. It's a journey, but we are not alone.

(Inspirational closing slide)

Thank you for your attention and patience.



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