







RAMP:

Repository Analytics and Metrics Portal

Accurately measuring use of institutional repositories

Kenning Arlitsch, Dean **@kenning_msu**Patrick OBrien, Semantic Web Research Director **@sempob**

ARL Assessment Forum Atlanta, GA, January 20, 2017



Agenda

- 1. A New Reporting Model
- Accuracy of Analytics Reporting Tools
 Page Tagging
 Log file
- 3. RAMP

New Prototype Web Service for IR reporting

A New Reporting Model

Page Type	Definition	Examples		
Citable Content Downloads	Non-HTML scholarly content that may be formally cited in the research process	Publication (.pdf)Presentation (.ppt)Data Sets (.csv)		
Item Summary	HTML pages to help user decide to download the full publication	Title & AbstractItem Metadata		
Ancillary	HTML pages that provide general information or navigation	Search ResultsBrowse by AuthorStatistics		



ScholarWorks

Open Access Scholarship at Montana State University

Search articles, professional papers, theses, dissertations

Business, Economics & Management Chemical & Material Sciences Engineering & Computer Science Health & Medical Sciences

Humanities, Literature & Arts Life Sciences & Earth Sciences Physics & Mathematics Social Sciences





♠ ScholarWorks Home / Search

DISCOVER

Author

Arlitsch, Kenning (4)

Mixter, Jeff (4)

OBrien, Patrick (4)

Sterman, Leila (3)

Borda, Susan (2)

Clark, Jason A. (2)

Wheeler, Jonathan (2)

Young, Scott W.H. (2)

Banner, Katie (1)

Border, J. Kent. (1)

... View More

Date Issued

2000 - 2017 (15)

Search

All of ScholarWork

Undercounting

Show Advanced Filters

Now showing items 1-10 of 23



Go



Data set supporting study on **Undercounting** File Downloads from Institutional Repositories [dataset]

OBrien, Patrick; Arlitsch, Kenning; Sterman, Leila; Mixter, Jeff; Wheeler, Jonathan; Borda, Susan (Montana State University ScholarWorks, 2016-07)

Search term found in abstract:...This dataset supports the study published as "**Undercounting** File Downloads from IR". The following items are included: 1. gaEvent.zip = PDF exports of Google Analytics Events reports for each IR. 2. galtemSummaryPageViews.zip = PDF exports...



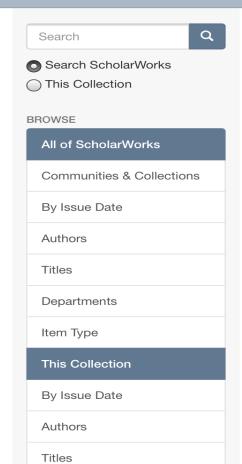
Undercounting File Downloads from Institutional Repositories

OBrien, Patrick; Arlitsch, Kenning; Sterman, Leila; Mixter, Jeff; Wheeler, Jonathan; Borda, Susan (Emerald, 2016-10)

A primary impact metric for institutional repositories (IR) is the number of file downloads, which are commonly measured through third-party web analytics software. Google Analytics, a free service used by most academic ... (Search term found in fulltext file)



♠ ScholarWorks Home / Scholarship & Research / Publications by Colleges and Departments (MSU- Bozeman) / Library / Scholarly Work - Library / View Item



Undercounting File Downloads from Institutional Repositories



View/Open



Date 2016-10

Author

OBrien, Patrick Arlitsch, Kenning Sterman, Leila Mixter, Jeff Wheeler, Jonathan Borda, Susan A primary impact metric for institutional repositories (IR) is the number of file downloads, which are commonly measured through third-party web analytics software. Google Analytics, a free service used by most academic libraries, relies on HTML page tagging to log visitor activity on Google's servers. However, web aggregators such as Google Scholar link directly to high value content (usually PDF files), bypassing the HTML page and failing to register these direct access events. This paper presents evidence of a study of four institutions demonstrating that the majority of IR activity is not counted by page tagging web analytics software, and proposes a practical solution for significantly improving the reporting relevancy and accuracy of IR performance metrics using Google Analytics.

URI

http://scholarworks.montana.edu/xmlui/handle/1/9943

Related Material/Data

http://scholarworks.montana.edu/xmlui/handle/1/9939

Collections

Scholarly Work - Library



Undercounting File Downloads from Institutional Repositories

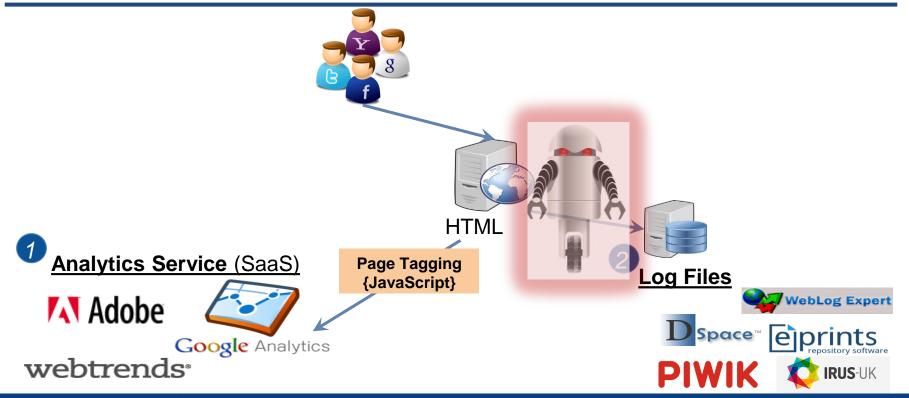
Patrick OBrien, Kenning Arlitsch, Leila Sterman, Jeff Mixter, Jonathan Wheeler, and Susan Borda

This is a preprint of an article that will appear in the Journal of Library Administration in October 2016.

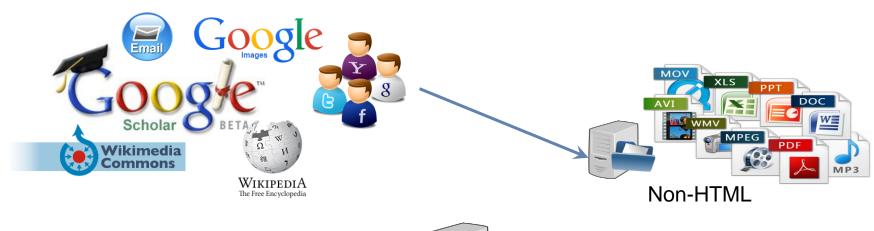
Journal of Library Administration

Accuracy of Analytics Reporting Tools

Two Classes of Web Analytics



Page Tagging does not track non-HTML CCD







Introducing the Getting Found Web Analytics Cookbook for Monitoring

[PDF] montana.edu

Scholar

Introducing the" Getting Found" Web Analytics Cookbook for Monitoring Search **Articles Engine Optimization of Digital Repositories**

K Arlitsch, P OBrien - Qualitative and Quantitative Case law 2015 - echolanworke montana adu A new toolkit that helps libraries establish My library monitoring of the search engine optimizat **Kenning Arlitsch**



April 1 · 🎎 🔻

SEO Cookbook article finally got published.

Any time Since 2016

Since 2015

Since 2012 Custom range...

About Google School

Introducing the "Getting Found" Web Analytics Cookbook for Monitoring Search Engine Optimization... SCHOLARWORKS.MONTANA.EDU

Share



Kenning Arlitsch @kenning_msu

SEO Cookbook article co-author. Like

of the products of research funded by the

Related articles All 5 versions Cite Sa

Showing the best result for this search. So

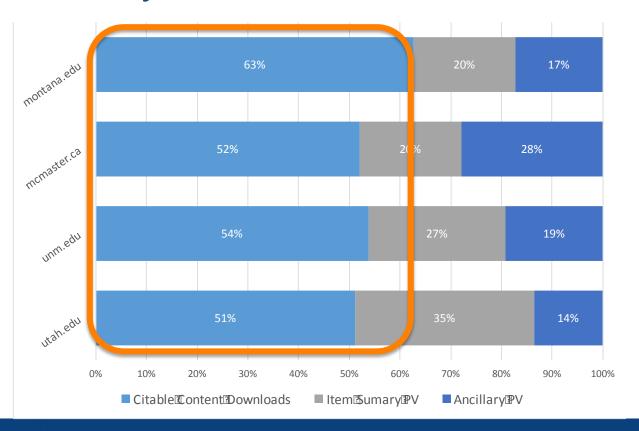
OBrien @sempob finally published - with

scholarworks.montana.edu/xmlui/handle/1...

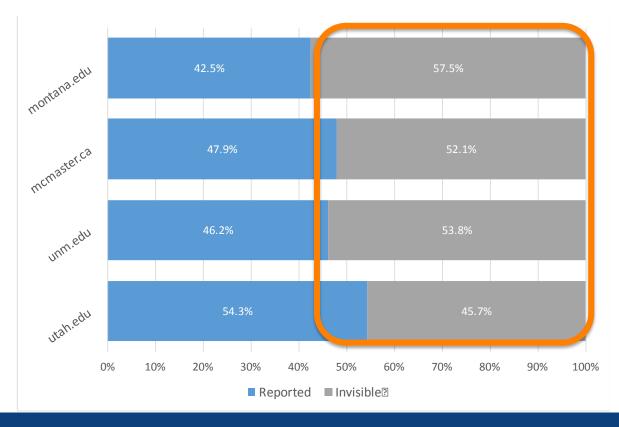
Google Analytics use in academic libraries

- Tested 279 academic library websites
 - ARL
 - DLF
 - OCLC-RLP
- 90% US libraries contained Google tracking code

Most IR activity is Citable Content Downloads



Most IR Activity Unreported by Google Analytics



Web Analytics Accuracy Risks

Risks		Analytics Method		
Area	Types	Page Tagging	Log Files	
	Visits	Low	High	
OverCount	Downloads	Low	High	
	Page Views	Low	Low	
	Visits	Medium	Medium	
UnderCount	Downloads	High	Low	
	Page Views	Low	Low	

Data set: Jan 5 - May 17, 2016 (n = 134 days)

Study Participant	IR	Platform	URL	
Montana State University	ScholarWorks	DSpace	scholarworks.montana.edu	
McMaster University	MacSphere	DSpace	macsphere.mcmaster.ca	
University of New Mexico	LoboVault	DSpace	repository.unm.edu	
University of Utah	USpace	CONTENTdm	uspace.utah.edu	

Page Tagging <u>does not</u> track non-HTML Citable Content Downloads



Does!

Non-HTML



Typical Page Tagging (GA) Data Types

Paga Typa	Analytics		
Page Type	Pages	Events	
Citable Content Downloads	-		
Item Summary		-	
Ancillary		-	

Montana Method Includes Google Search Console

Page Type	Anal	Search Console	
3 31	Pages	Events	Search Analytics
Citable Content Downloads	-		
Item Summary		-	-
Ancillary		-	-

GA Ancillary Page Views and Item Summary Page Views vs CCD

IR	Item Sumary PV	Ancillary PV	Total Google Analytics HTML PV	Download Events	Citable Content Downloads
	ournary i v		7 tildiyeldə tirririz i	Evolito	DOMINION
scholarworks.montana.edu	26,735	23,350	50,085	7,129	77,380
macsphere.mcmaster.ca	51,150	71,585	122,735	n/a	133,342
repository.unm.edu	83,491	59,289	142,780	n/a	166,320
content.lib.utah.edu	122,927	47,569	170,496	19,226	159,536



LIBRARY

All four IR using Google Analytics



Montana Method Challenges

- Missing non-Google direct link CCD events
 - Yahoo
 - Bing
 - Email
 - FB
- GSC limits time and access
 - Moving 90-day window
 - Granular data = programing skills to access API

RAMP: Repository Analytics & Metrics Portal

RAMP - Repository Analytics and Metrics Portal

- Cloud Web service
- Currently accessible and free
 - During grant period (through November 2017)
- No training or configuration required
- Consistent method and terminology
- Benchmarking across time and organization
- Request access mixterj@oclc.org



Repository Analytics & Metrics Portal

Search Here



Montana State University

This is for text about the sites that have Google Search API hooked up



University of New Mexico

This is for text about the sites that have Google Search API hooked up



McMaster University

This is for text about the sites that have Google Search API hooked up

About the RAMP Portal

Montana State University, the Association of Research Libraries, the University of New Mexico, and OCLC Research have joined as partners to examine the difficulties that libraries face in producing accurate reports on the use of their digital repositories.





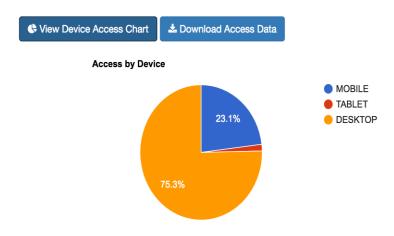


Montana State University

Access Data

Selected Date: Wednesday, January 11, 2017

<	January 2017									
	Mon	Mon Tue Wed Thu Fri Sat								
52	26	27	28	29	30	31	01			
1	02	03	04	05	06	07	08			
2	09	10	11	12	13	14	15			
3	16	17	18	19	20	21	22			
4	23	24	25	26	27	28	29			
5	30	31	01	02	03	04	05			



Publications

Published:

Patrick OBrien, Kenning Arlitsch, Leila Sterman, Jeff Mixter, Jonathan Wheeler, and Susan Borda. "Undercounting File Downloads from Institutional Repositories," *Journal of Library Administration*, vol. 56, no. 7, 2016

Forthcoming:

Patrick OBrien, Kenning Arlitsch, Leila Sterman, Jeff Mixter, Jonathan Wheeler, and Susan Borda. "RAMP: Repository Analytics and Metrics Portal: A Prototype Web Service that Accurately Counts Item Downloads from Institutional Repositories," Accepted by *Library Hi Tech*, expected early 2017

Proposal funded by IMLS:

"Measuring Up: Assessing Accuracy of Reported Use and Impact of Digital Repositories" - scholarworks.montana.edu/xmlui/handle/1/8924

Undercounting Research Team

Museum And Library
SERVICES

- Montana State University
 - Kenning Arlitsch, Dean @kenning_msu
 - Patrick OBrien, Semantic Web Research Director @sempob
 - •Leila Sterman, Scholarly Communication Librarian @calamityleila
 - Susan Borda, Digital Technologies Librarian @mutanthumb
- **♦OCLC** Research
 - Jeff Mixter, Software Engineer @jeffmixter
- University of New Mexico
 - Jonathan Wheeler, Data Curation Librarian