DIGITAL COMMONWEALTH SYSTEMS UPDATE

Steven Carl Anderson Eben English Boston Public Library goo.gl/ZTaZw4



THE TERRIBLE TWOS

Year in review & future directions

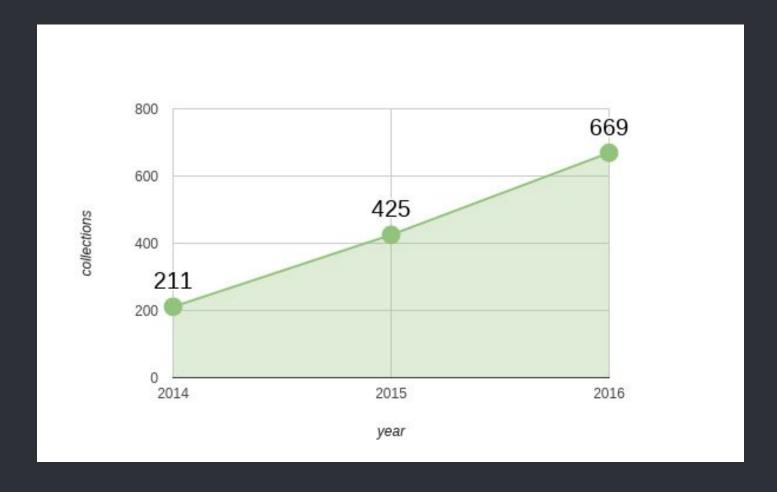
- content
- features
- usage

CONTENT

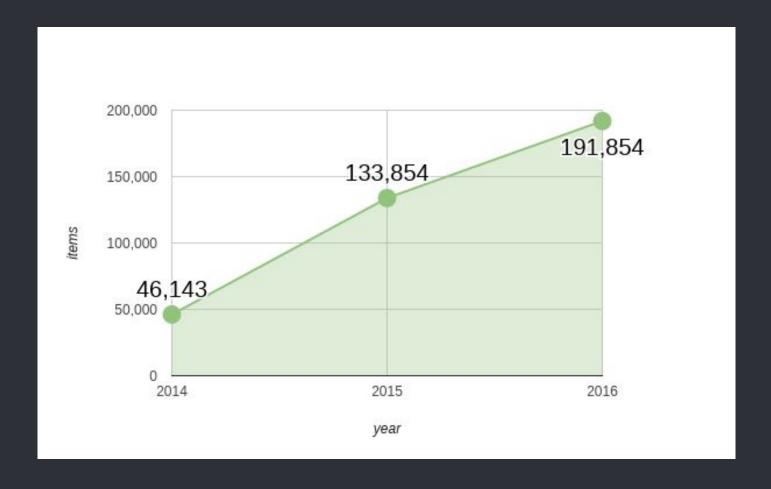
Institutions



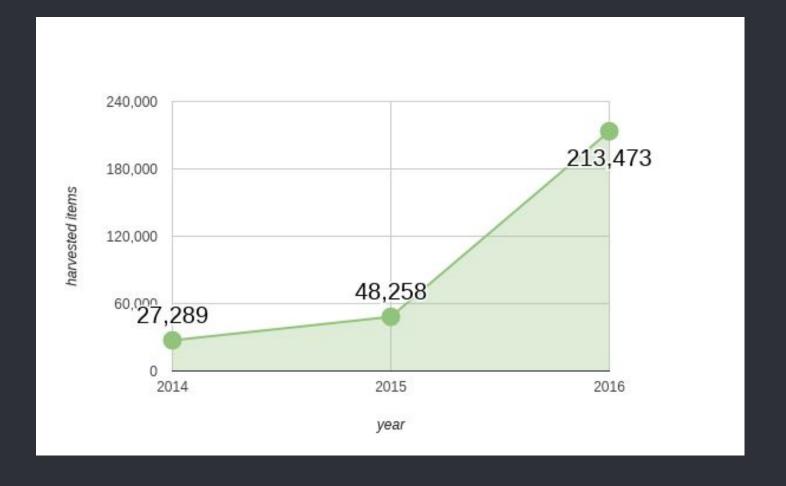
Collections



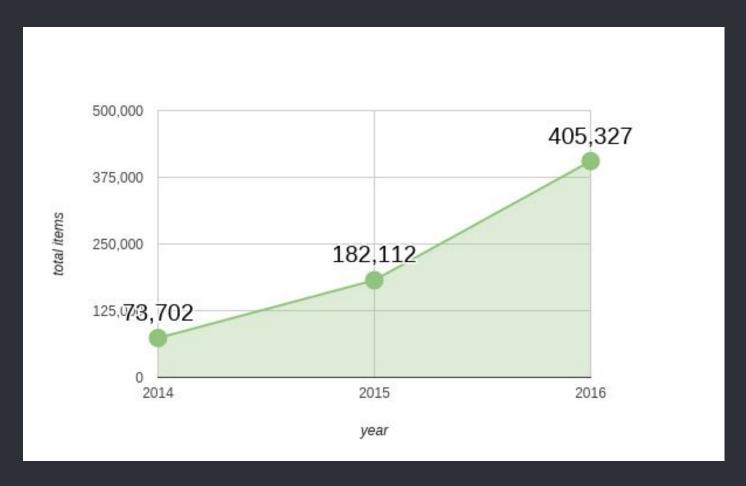
Hosted items



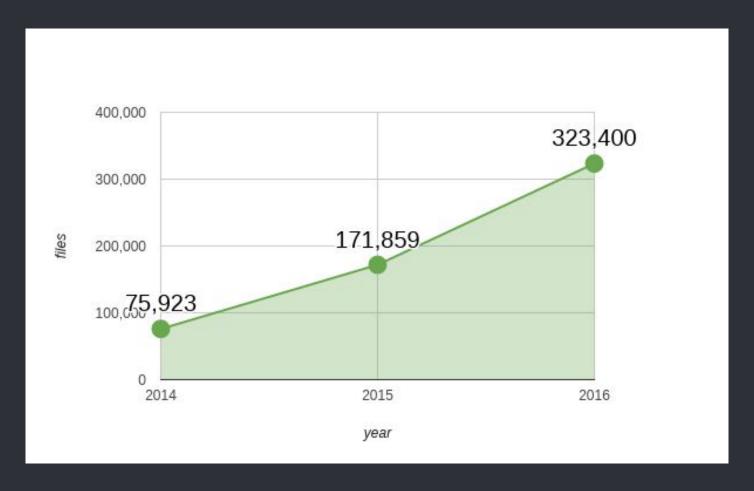
Harvested items



Total items



Total files



CONTENT: NEW 2016 METRIC

Cats Vs Dogs



http://ark.digitalcommonwealth.org/ark: /50959/6682xk62w



CONTENT: FORMATS

count	format	% increase
177,181	Photographs	+75%
104,287	Letters/Correspondence	+11,054%
38,625	Postcards/Cards	+24%
34,156	Documents	+23%
24,367	Manuscripts	+1,392%
17,330	Prints	+261%

CONTENT: FORMATS

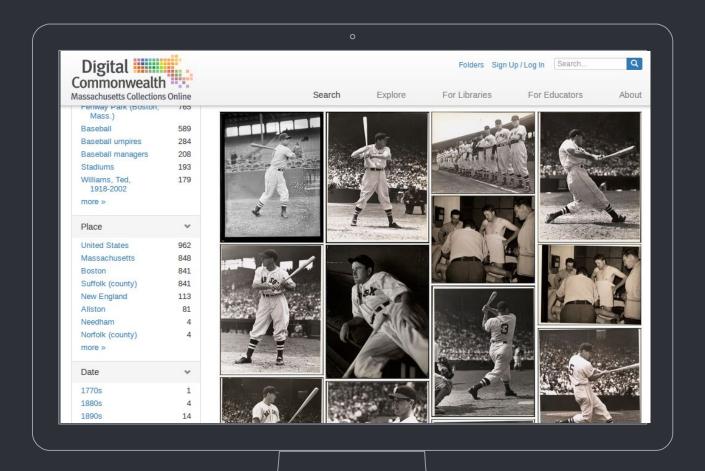
count	format	% increase
6,411	Maps/Atlases	+5%
3,051	Newspapers	+616%
2,987	Film/Video	+2%
2,724	Drawings/Illustrations	+34%
2,069	Paintings	+80%
1,507	Ephemera	+9%

CONTENT: FORMATS

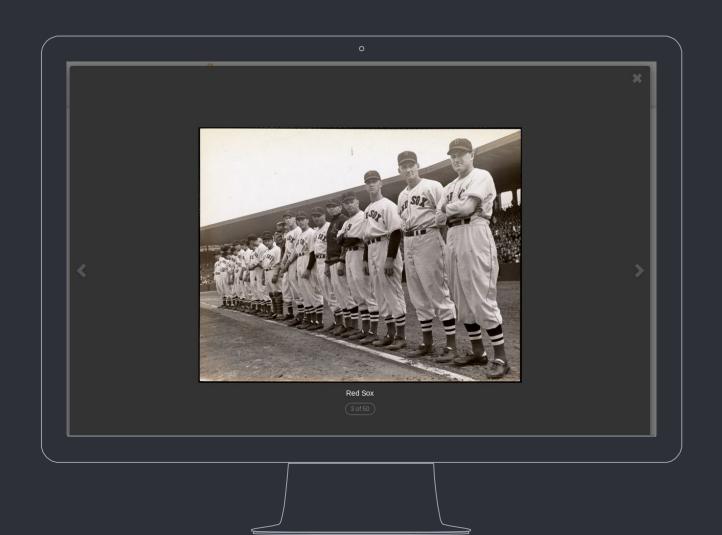
count	format	% increase
1,285	Posters	+6%
1,282	Periodicals	+17%
949	Books	+37%
708	Audio recordings	+200%
658	Objects/Artifacts	+26%
185	Albums/Scrapbooks	+78%

FEATURES

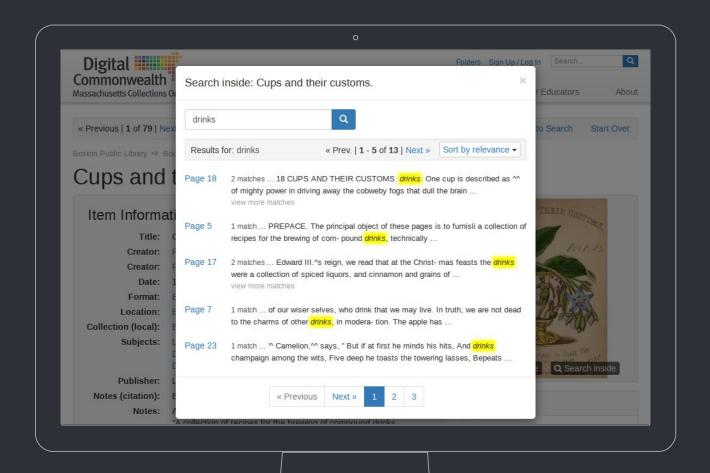
• FEATURES: "WALL" VIEW



• FEATURES: SLIDESHOW VIEW



FEATURES: FULL-TEXT SEARCHING



FEATURES: FULL-TEXT SEARCHING

CUPS AND THEIR CUSTOMS.

18 CUPS AND THEIR CUSTOMS.

17 down, "that for the maintenance of honest mirth she shall take, an hour before bedtime, a cup of Clary wine." "Red wine" is also spoken of in the reign of Henry VIII., but it is uncertain to what class of wine it belonged, or from whence it came: if palatable, however, its cheapness would recommend it; for at the marriage of Gervys Clinton and Mary Neville, three hogsheads of it, for the wedding-feast, were bought for five guineas. We must not, however, pass over the 15th century without proclaiming it as the dawn of the "Cup epoch," if we may be allowed the term, as gleaned from the rolls of some of the ancient colleges of our Universities. In the computus of Magstoke Priory, A.D. 1447, is an entry in Latin, the translation of which seems to be this :- " Paid for raisin wine, with comfits and spices, when Sir S. Montford's fool was here and exhibited his merriments in the oriel chamber." And even in Edward III.'s reign, we read that at the Christmas feasts the drinks were a collection of spiced liquors, and cinnamon and grains of paradise were among the dessert confections, -evidence of compound drinks being in fashion; and these, although somewhat too much medicated to be in accordance with our present taste, deserve well of us as leading to better things. Olden worthies who took their cups regularly, and so lived clean and cheerful lives, when they were moved to give up their choice recipes for the public good, described them under the head of "kitchen physic;" for the oldest "Curry" or Cookery Books (the words are synonymous) include. under this head, both dishes of meats and brewages of

drinks. One cup is described as "of mighty power in driving away the cobweby fogs that dull the brain;" another, as "a generous and right excellent cordial, very comforting to the stomach;" and their possession of these good qualities was notably the reason of their appearance at entertainments. Among the most prominent ranks the medicated composition called Hypocras, also stiled "Ypocras for Lords," for the making of which various recipes are to be found, one of which we will quote :-

"Take of Aqua vitæ (brandy) . . . 5 oz. Pepper 2 oz. Ginger 2 oz. Cloves 2 oz. Grains of Paradise 2 oz. Ambergris 5 grs. Musk 2 grs.

Infuse these for twenty-four hours, then put a pound of sugar to a quart of red wine or cider, and drop three or four drops of the infusion into it, and it will make it taste richly." This compound was usually given at marriage festivals, when it was introduced at the commencement of the banquet, served hot; for it is said to be of so comforting and generous a nature that the stomach would be at once put into good temper to enjoy the meats provided. Hypocras was also a favourite winter beverage, and we find in an old almanac of 1699 the lines-

> "Sack, Hypocras, now, and burnt brandy Are drinks as warm and good as can be."

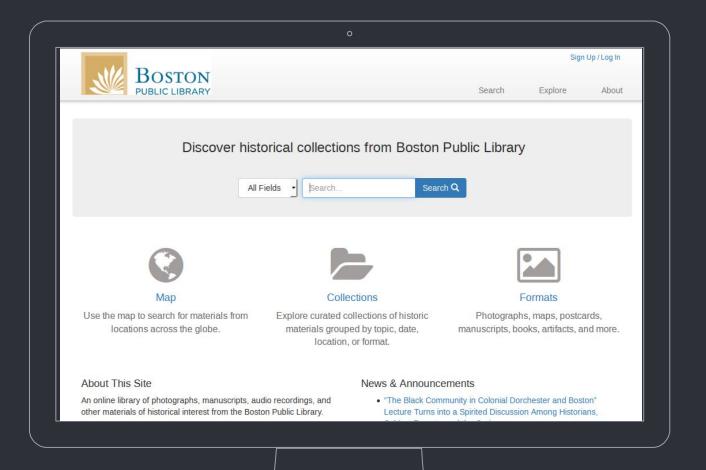
K Back to item | Image 29 🗘 of 90 =







FEATURES: VIRTUAL LOCAL REPOSITORY



FEATURES: VIRTUAL LOCAL REPOSITORY

- Customizable turn-key applications that display content (metadata & images) hosted by the main Digital Commonwealth repository.
 - Display-only
 - Requirements:
 - Ruby on Rails
 - Database (MySQL, Postgres, etc.)
 - Web server (Apache, NGINX, etc.)
 - Open-source
 - github.com/boston-library/commonwealth-vlr-engine

FEATURES: IIIF PRESENTATION API MANIFEST

The IIIF Presentation API specifies a web service that returns JSON-LD structured documents that describe the structure and layout of a digitized object or collection of images.

http://iiif.io/api/presentation/2.0/

FEATURES: IIIF PRESENTATION API MANIFEST

- Standard maintained by the International Image Interoperability Framework (IIIF) group
- Adopted by Stanford, Yale, Princeton, Harvard, etc.
- Re-use and display of metadata, images & sequences
- Enables rich viewing experience in applications (Mirador, Diva.js, Wellcome Player, etc.)

FEATURES: IIIF PRESENTATION API MANIFEST

- Add "/manifest" to DC URL:
 - http://ark.digitalcommonwealth.org/ark: /50959/s4655h10k/manifest

FEATURES: BEHIND THE SCENES

SERVER-SIDE

Upgrades to:

- Blacklight
- Loris
- Image processing
- Blacklight-Maps
- OpenSeadragon-Rails
- Linked Data Fragments

SEARCH INTERFACE

- Institution logos
- File downloads
- MLA and APA citation styles
- Slideshow enhancements
- Display georeferenced maps
- Export folder items as PowerPoint or PDF

ADMINISTRATIVE & CONTENT

- Internet Archive harvest (40K books)
- Usage statistics
- Basic metadata editor
- Persistent URLs for harvested items
- Fedora 4

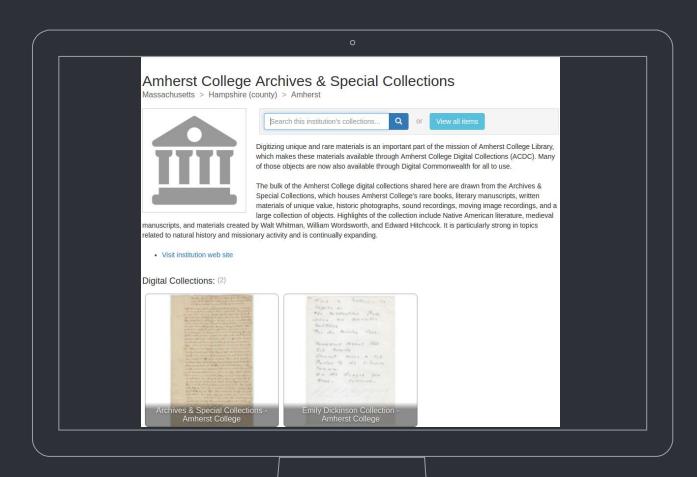
ADMINISTRATIVE & CONTENT

- MODS XML to RDF
 - MODS and RDF Descriptive Metadata Subgroup
 - Amherst College, NYPL, UNC Chapel Hill, Columbia U.,
 Indiana U., Emory, U. of Alberta

https://wiki.duraspace. org/display/hydra/MODS+and+RDF+Descriptive+Meta data+Subgroup

ADMINISTRATIVE & CONTENT

- Official Institution Accounts
 - Accounts that are used for administrative functionality for an institution
 - https://www.digitalcommonwealth.org/feedback
 - "login / sign up for account"
 - Coming by the end of April



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Т	A	В	С	D	E	F	G	Н	- 1	j	K	L	
1	Collection PID	Views Average	Weight	Total Views	Average Time	Total Time	Exits	Steven Calculated Average Time	Zero Views	One Views	Two Plus Views	#1 Viewed Count	
2	commonwealth:5425kj997	2.85	100	285	11.6373372135		35	25.108	25		65	5:	
3	commonwealth:5425kn01g	2.7628865979	97	268	35.2932090585	10232	111	65.1719745223	27	24	46	5	
4	commonwealth:c534fn93r	4.1073446328	177	727	50.3727646518	37230	124	61.7412935323	12	26	139	6	
5	commonwealth:sf268907w	1.1137724551	167	186	28.9014880952	8732	25	54.2360248447	77	47	43		
6	commonwealth:c534fs491	1.4450549451	182	263	28.2309594777	9000	78	48.6486486486	72	46	64	1	
7	commonwealth:sf268509m	5.5309278351	194	1073	60.1170955611	57822	357	80.7569832402	17	37	140	130	
8	commonwealth:vd66vz88c	5.03125	64	322	54.6957347554	17774	85	74.9957805907	1	11	52	2	
9	commonwealth:gq67jv683	4.2	50	210	48.6445689387	13575	22	72.2074468085	4	6	40	1	
10	commonwealth:fn1070419	0.7887323944	142	112	29.2836829837	6009	23	67.5168539326	82	32	28	1.0	
11	commonwealth:9306t129n	2.9151785714			24.6930835338		98	52.990990991	44				
12	commonwealth:pr76f340k	2.1683168317	101	219	16.3311348782	7272	32	38.8877005348	8	52	41		
13	commonwealth:vd66w1170	3.5868945869			41.4874918969		394	63.0832369942	78				
14	commonwealth:sf268d43c	2.6098829649			22.4338431382			44.5990071704	251				
15	commonwealth-oai:xd07gx07n	0.0709219858					4	53.3333333333	131				
16	commonwealth-oai:p2676w234	0.5478036176					77	56.8592592593	274				
17	commonwealth-oai:4j03d3701	2.4239130435					27	37.1479591837	12				
18	commonwealth:k643b116n	2.0533807829						67.226283725	527				
19	commonwealth-oai:n583z420c	0.5428226779						68.6901840491	551				
20	commonwealth-oai:1v53jx019	0.4314136126						80.5935251799	695				
21	commonwealth-oai:r207tp73n	1.6893203883				10870	65	99.7247706422	37				
22	commonwealth-oai:r207tq060	0.1122994652			2.5904255319		12		167				
23	commonwealth-oai:r207tp70t	1.0785340314					13		198				
24	commonwealth-oai:r207tr94t	0.3372093023					18	152.7272727273	63				
25	commonwealth:5425kb612	3.2995699952			24.4938936213		987	39.8667004562	510				
26	commonwealth-oai:pc289q78j	6.0837438424						73.635978836	37				
27	commonwealth-oai:ww72bf798	1.0342465753			19.3311437995		33	80.5593220339	92				
28	commonwealth:dr26xz215	17.4245283019			46.0024676562			66.6697459584	0				
29	commonwealth-oai:r207ts75t	0.2685887709			7.3064772727			128.9516129032	595				
30	commonwealth-oai:ww72bg18r	3.3279132791					285	77.5938494168	87		221		
31	commonwealth-oai:qr46r081g	0.8571428571			30.150390625		14	90.6					
32	commonwealth-oai:qr46r436g	1.819047619						42.755555556	31				
33	commonwealth-oai:qv33rz86b	2.9428571429					30	36.0909090909	13				
34	commonwealth-oai:qr46r127w	0.9198312236					29	42.1005291005	129				
35	commonwealth-oai:qv33rx78f	0.55					27	30.3793103448	183				
36	commonwealth-oai:qv33s059t	0.185840708					6		96				
37	commonwealth-oai:qv33s177z	1.265625				3929	73		68				
38	commonwealth-oai:4t64gr02g	0.1741573034			10.1680633147		7	90.0833333333	154				
39	commonwealth:7d279182g	4.2			36.8798982707	13494	34	51.9					
40	commonwealth:7d279443d	9.8867924528						97.9385964912	0				
41	commonwealth:rv042w06d	8.0422535211			57.3800415682		202	68.0216802168					
42	commonwealth:rv042x49d	7.1551724138					147	48.8395522388	6				
43	commonwealth:rv0432726	6 3333333333	60	380	49 7513431602	24691	120	94 9653846154	2	7	51	4	

COMMUNITY

COMMUNITY: COLLECTION DEVELOPMENT

- New Digital Commonwealth task force to figure out a collection development policy
 - How we might handle some content types (if we would accept them at all).
 - Dissertations?
 - Thesis?
 - Government Documents?
 - ETDs?
 - Tweets?
 - Websites?

COMMUNITY: NEWSPAPERS

- | IMLS Newspaper Grant Submitted January 15, 2016
 - Partnered with the University of Utah
 - Run the Mountain West Digital Library
 (another DPLA service hub)
 - Requested \$250,000 to hire a developer.
 - Would be built as a component to use
 with any Hydra based application

COMMUNITY: NEWSPAPERS

- Expands and will build upon a DPLA Knight
 Foundation Grant
 - http://dp.la/info/2015/11/09/dpla-announces-knightgrant-to-research-the-potential-integration-ofnewspaper-content/

 Article level content as the preferred format but will still support page level metadata

COMMUNITY: CONFERENCE

- Hosting Hydra Connect 2016
 - 4th time this would have been held
 - October 3rd October 6th
 - First day workshops
 - Last day unconference sessions (usually)
 - Sheraton Boston hotel
 - \$219/night
 - Registration open late May / early June
 - 290 max slots

COMMUNITY: CONFERENCE

- Partners: WGBH, Tufts, DPLA, Northeastern
- Various types of topics
 - Technical code talks
 - Metadata discussions (RDF + LD)
 - Management sessions
 - DevOps discussions
 - Poster session
 - Each institution displays their current efforts and system architecture

USAGE

USAGE: SESSIONS

March 2015: 590 sessions/day

October 2015: 1,060 sessions/day

March 2016: 1,235 sessions/day



USAGE: TRAFFIC SOURCES

Where do users come from?

2015

search: 55.2%

referral: 19.5%

direct: 13.8%

social: 11.4%

2016

search: 54.3%

referral: 16.9%

direct: 16%

social: 12.7%

USAGE: REFERRING SITES

- Top referring sites, April 2015 March 2016:
 - dp.la 14,617
 - bpl.org 4,219
 - o cwmars.org 2,455
 - newbedford-ma.gov 827
 - watertownlib.org 786
 - rypn.org 602
 - lawrencehistory.org 460
 - brooklinelibrary.org 448
 - cambridgema.gov 430
 - o mail.google.com 422

USAGE: SOCIAL

- 🖒 Top social referrers, April 2015 March 2016:
 - Facebook 31,774
 - Reddit 4,6<u>92</u>
 - Twitter 1,826
 - YouTube 1,272
 - Tumblr 1,013
 - Pinterest 628

USAGE: CONTENT

Top 10 most-viewed items

October 2015 - March 2016

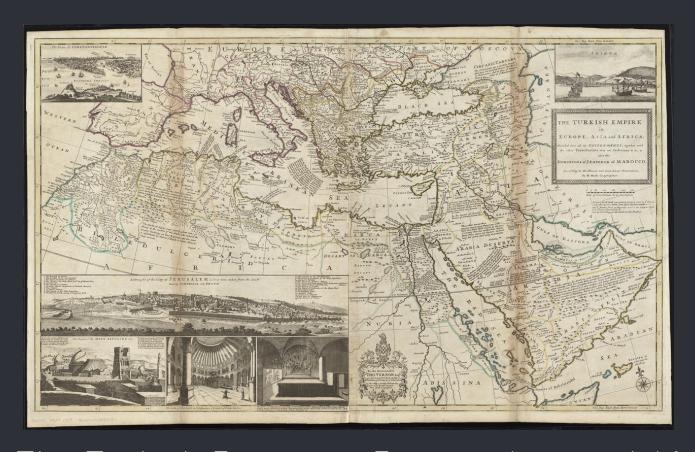
#10 (598 views)



A panoramic view from Bunker Hill Monument

Boston Public Library - Boston Pictorial Archive http://ark.digitalcommonwealth.org/ark:/50959/00000312d

#9 (645 views)



The Turkish Empire in Europe, Asia and Africa...

Boston Public Library - Norman B. Leventhal Map Center Collection http://ark.digitalcommonwealth.org/ark:/50959/cj82kt41q

#8 (696 views)



Buctouche, New Brunswick

Boston Public Library - Norman B. Leventhal Map Center Collection http://ark.digitalcommonwealth.org/ark:/50959/wd376861d

#7 (784 views)



Wachusett Reservoir, Lancaster Mills and Mill Pond...

Massachusetts Archives - Mass. Metropolitan Water Works Photograph Collection http://ark.digitalcommonwealth.org/ark:/50959/bz60d598c

#6 (805 views)



Wachusett Reservoir, Moulton & O'Mahoney's locomotive "The Hobo"...

Massachusetts Archives - Mass. Metropolitan Water Works Photograph Collection

http://ark.digitalcommonwealth.org/ark:/50959/t148gc09k

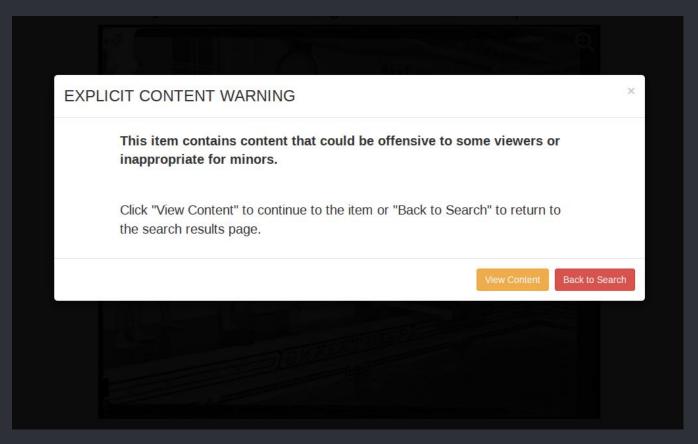
#5 (861 views)



Wachusett Dam, from the east, Clinton, Mass...

Massachusetts Archives - Mass. Metropolitan Water Works Photograph Collection http://ark.digitalcommonwealth.org/ark:/50959/1544bp68v

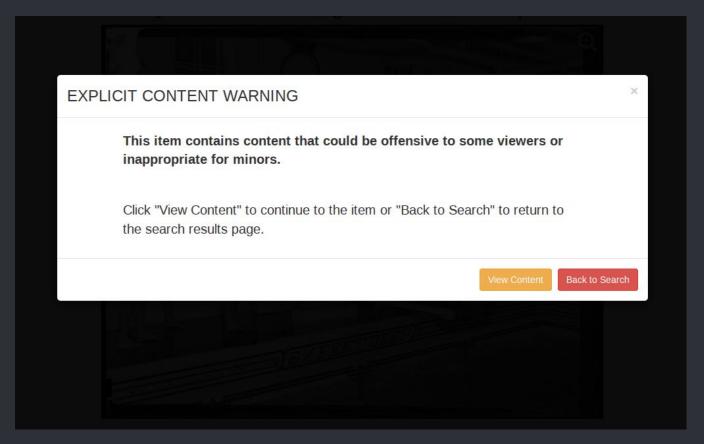
#4 (1,522 views)



Row of naked boys stand on diving board at indoor pool

Boston Public Library - Leslie Jones Collection http://ark.digitalcommonwealth.org/ark:/50959/sj139t64g

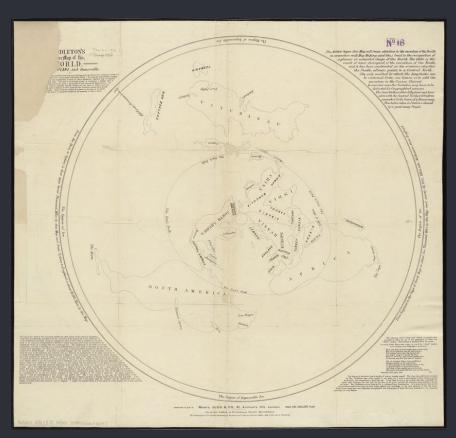
#3 (1,545 views)



Row of naked boys stand on diving board at indoor pool

Boston Public Library - Leslie Jones Collection http://ark.digitalcommonwealth.org/ark:/50959/sj139t62x

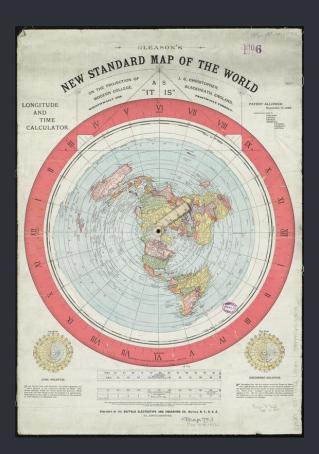
#2 (2,969 views)



[Mid]dleton's [pione]er map of the [w]orld...

Boston Public Library - Norman B. Leventhal Map Center Collection http://ark.digitalcommonwealth.org/ark:/50959/7h149v83d

#1 (20,861 views)



Gleason's new standard map of the world

Boston Public Library - Norman B. Leventhal Map Center Collection http://ark.digitalcommonwealth.org/ark:/50959/7h149v85z

USAGE: CONTENT

- Top Five Most-Popular Collections
 - October 2015 March 2016
 - At least 50 items in collection
 - Average view count for items

#5 (14.4 average views per item)



Watertown Houses
Watertown Free Public Library

https://www.digitalcommonwealth.org/collections/commonwealth:rv043402x

#4 (15.6 average views per item)



Photographic Collection of the Jacob Edwards Library

Jacob Edwards Library

https://www.digitalcommonwealth.org/collections/commonwealth:fb494n22f

#3 (17.4 average views per item)



Watertown Businesses

Watertown Free Public Library

https://www.digitalcommonwealth.org/collections/commonwealth:dr26xz215

#2 (19.8 average views per item)



Brockton: The Early Years as a City in Photographs, 1881-1950 Brockton Public Library

https://www.digitalcommonwealth.org/collections/commonwealth:j67314798

#1 (21 average views per item)

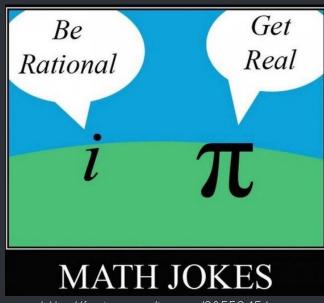


Massachusetts Metropolitan Water Works Wachusett Reservoir Land Survey Plans Indexing Real Estate Photographs, 1896-1898

Massachusetts Department of Conservation and Recreation https://www.digitalcommonwealth.org/collections/commonwealth:f4752n42x

USAGE: SITEWIDE ANALYSIS

- MORE NUMBERS = MORE FUN
 - October 2015 March 2016
 - Must have existed as of December 31st, 2015
 - Doesn't include DPLA traffic for harvested items.



http://favim.com/image/2855945/

USAGE: BASELINE

	All Objects
Total Records	228,743
Average Views	2.54
Percent with 1+ Views	56%
Average Time on Page	54.98 seconds

USAGE: SUBJECTS

	No Subjects	Topic Subject Only	Geographic Subjects Only	Both Topic and Geographic
Total Records	7,928	79,629	6,859	134,327
Percentage of Records	3.5%	34.8%	3.0%	58.7%
Average Views	1.51	1.55	2.39	3.19
Percent with 1+ Views	45%	42%	51%	65%

USAGE: ABSTRACT AND NOTES

	No Abstract or Notes	Abstract Only	Notes Only	Both Abstract and Notes
Total Records	10,697	12,791	182,329	22,926
Percentage of Records	4.7%	5.6%	79.7%	10.0%
Average Views	1.27	2.63	2.48	3.60
Percent with 1+ Views	34%	51%	56%	66%

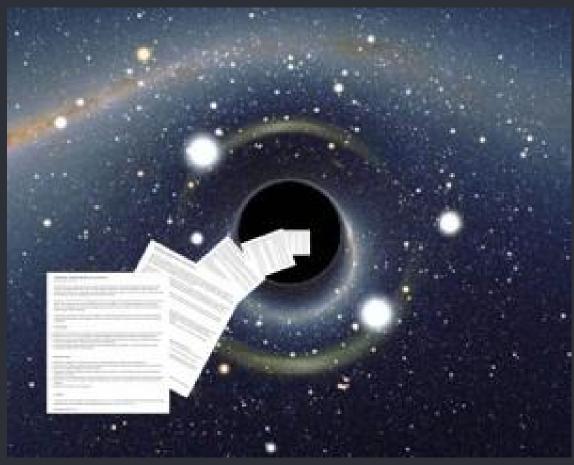
USAGE: DATES

	No Date(s)	With Date(s)
Total Records	8,196	220,547
Percentage of Records	3.6%	96.4%
Average Views	2.26	2.55
Percent with 1+ Views	50%	56%

USAGE: HOSTED VS HARVESTED

	Hosted Items	Harvested
Total Records	172,476	56,267
Percentage of Records	75.4%	24.6%
Average Views	3.16	0.63
Percent with 1+ Views	66%	25%

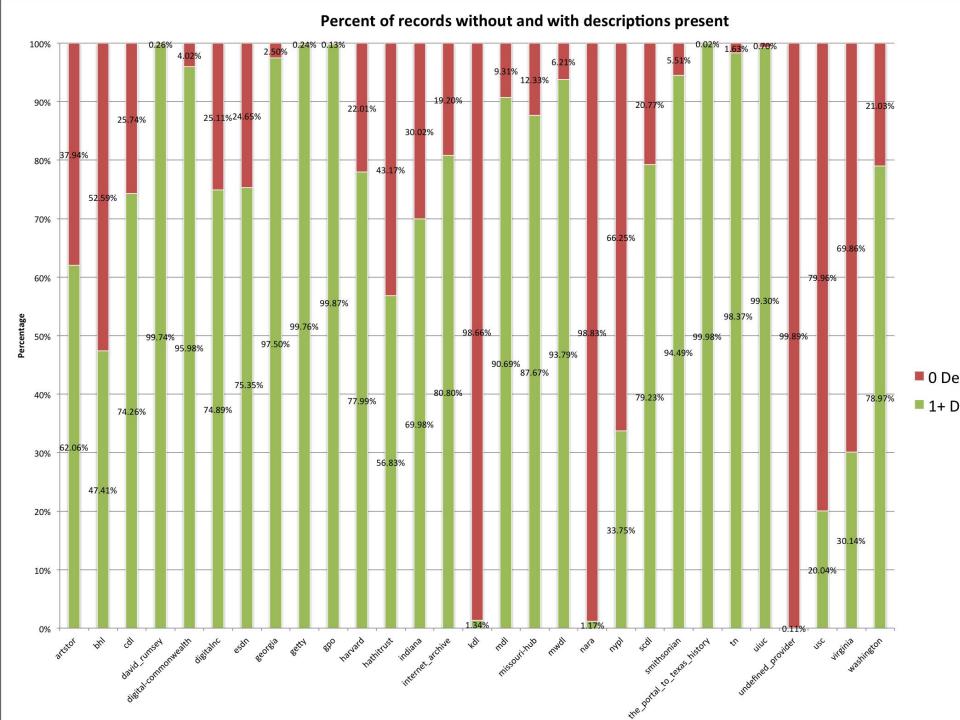
USAGE: AVOID THE BLACK HOLE



http://www.blogging4jobs.com/hr/avoid-the-black-hole-when-applying-for-jobs-online

USAGE: CONTENT HUB COMPARISON

- A look at description use in DPLA
 - Credit and further good reading at: http: //vphill.com/journal/post/5889/
 - Note: DPLA dumps abstract and notes into the same description field.



THANKS!

Questions?

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goo.gl/ZTaZw4