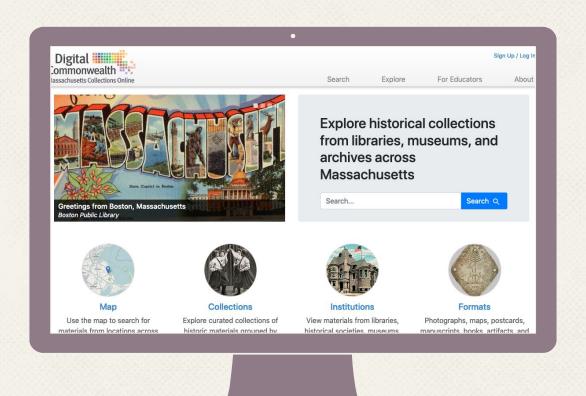


### DIGITAL COMMONWEALTH

Repository Systems Update: 2022

Eben English Boston Public Library



#### digitalcommonwealth.org

- Digital library of historical materials from Massachusetts institutions
- Over 950,000 items from libraries, archives, museums, historical societies
- o Photographs, manuscripts, maps, artwork, video, artifacts, newspapers
- Hosted and harvested materials, links to other repositories
- Launched in 2006, funded by IMLS
- DPLA Service Hub

#### **WE HAVE LIFTOFF!**

#### Covering April 2021 - March 2022

- New collections
- New systems
- Project updates
- Future work
- Usage trends
- o Top 20 items



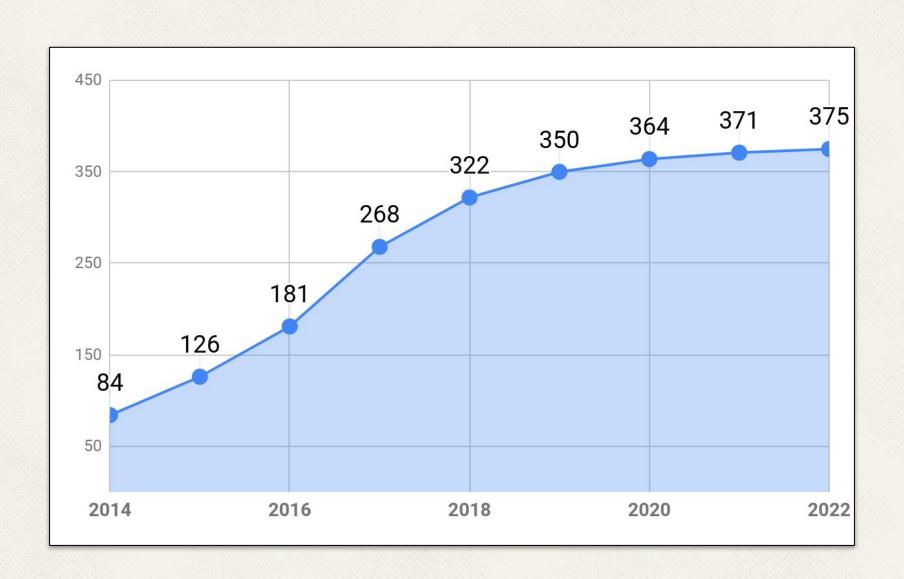
Detail from: *Gemini 6 ready for takeoff seen on television screen*Boston Public Library; Press Photography from the Brearley Collection
<a href="https://ark.digitalcommonwealth.org/ark:/50959/rb68zq04f">https://ark.digitalcommonwealth.org/ark:/50959/rb68zq04f</a>



### NEW COLLECTIONS

Astronaut Edwin E. Aldrin views a piece of moon rock
Boston Public Library; Press Photography from the Brearley Collection
<a href="https://ark.digitalcommonwealth.org/ark:/50959/kh04nk24j">https://ark.digitalcommonwealth.org/ark:/50959/kh04nk24j</a>

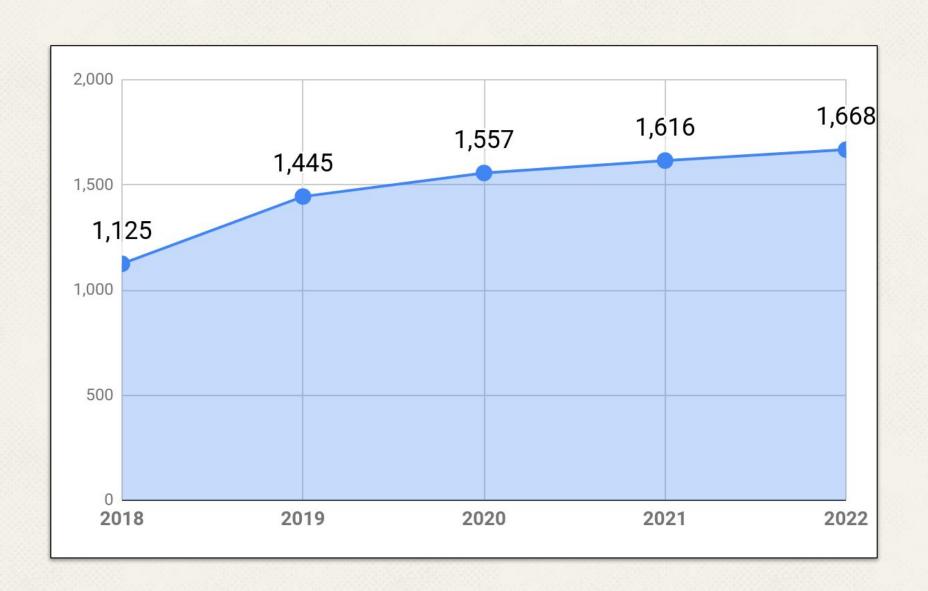
#### **NEW: INSTITUTIONS**



#### **NEW: INSTITUTIONS**

- Boston Children's Hospital Archives
- City of Gloucester, Archives
- Harvard Musical Association
- Hopkinton Historical Society
- Yiddish Book Center

#### **NEW: COLLECTIONS**



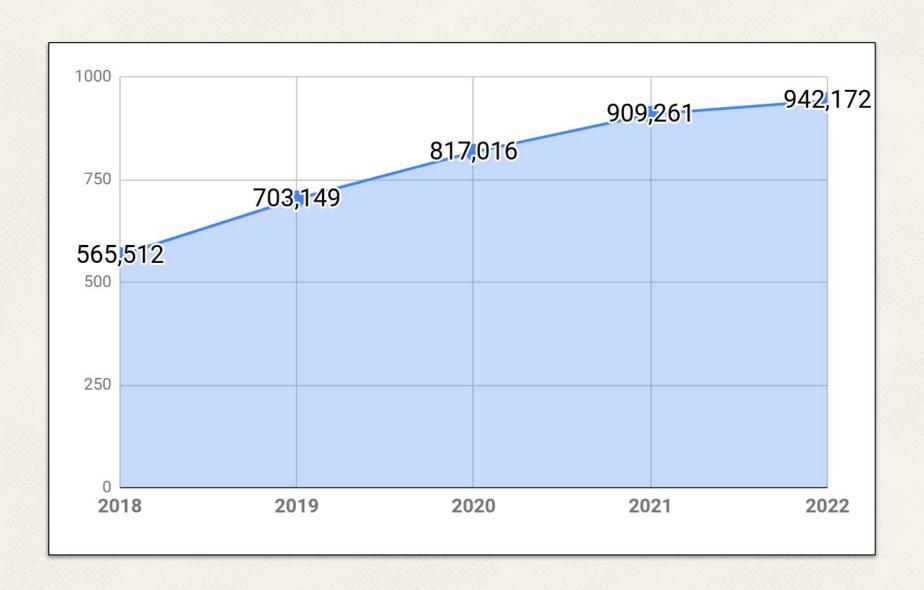
#### **NEW: COLLECTIONS**



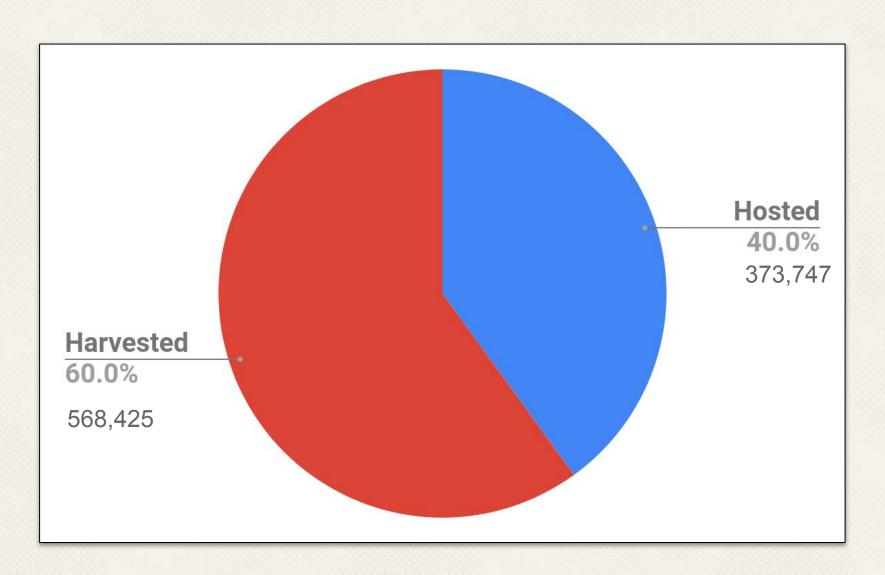
THE WAY - STORM MAY MAKE THE BY ME MAKE THE WO THE - PARK OFF JAN 10 - WAYS

G.D.WILSON

#### **NEW: ITEMS**

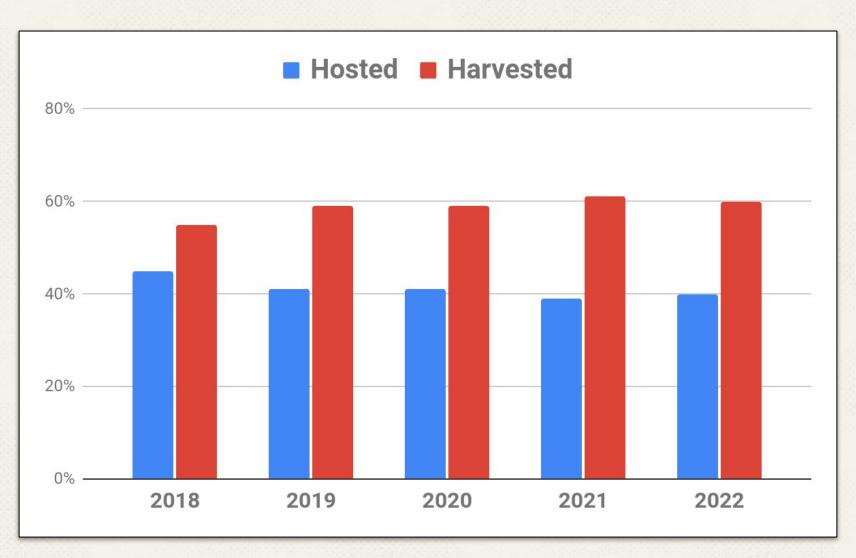


# HARVESTED v. HOSTED ITEMS



# HARVESTED v. HOSTED ITEMS

**Last 5 Years** 



#### **NEW: HARVESTS**

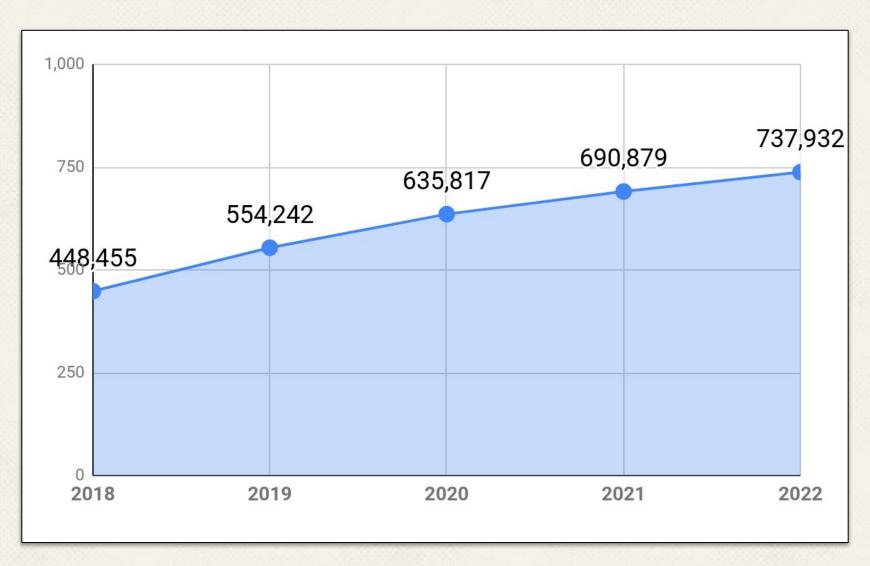
#### **NEW HARVESTS**

Yiddish Book Center

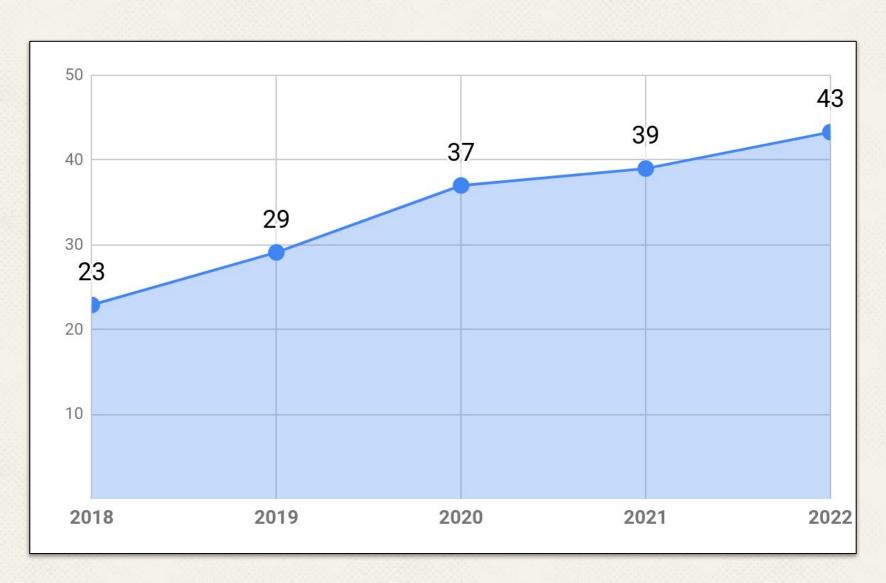
#### **RE-HARVESTS**

- Northeastern University Library
- SAILS Library Network

## **NEW: FILES**PRIMARY FILES ONLY



#### **NEW: STORAGE (TB)**



### NEW SYSTEMS



#### DC3: LIFTOFF?



#### DC3: WHEELS UP

#### New repository system:

- Open-source
- Database-backed metadata
- Cloud storage for file assets
- API-driven
- Microservices framework



#### **DC3: ADVANTAGES**

- Increased storage capacity
- "Pay as you go" storage costs
- Less infrastructure
- More widely-adopted technologies
- Bigger community, more support
- Atomic updates
- Greater authority control
- Increased fault tolerance
- Flexibility

#### **DC3: MICROSERVICES**

- Curator (metadata, file inventory)
- Authority API
- ARK Manager
- IIIF Image Server
- Search index
- AVI Processor
- Public front-end

All code available on GitHub: <a href="https://github.com/boston-library">https://github.com/boston-library</a>

#### DC3: MIGRATION

- Suspended ingests & harvests in May 2021
- Migration ran from September December 2021
  - o 926,812 items
  - o 7,289,632 files
  - o 39.55 TB
- All files verified w/checksums
- Resumed ingests in January 2022

#### **DC3: NEXT STEPS**

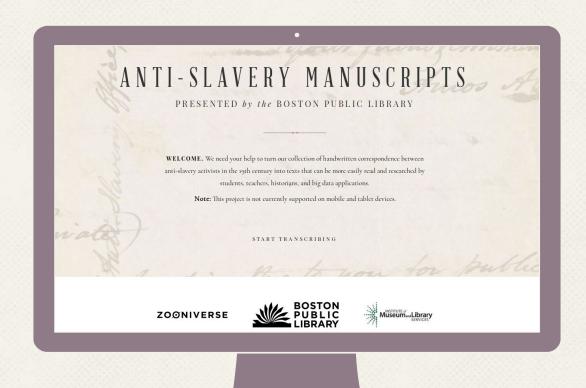
- OAI-PMH: harvesting & provider
- Newspaper ingest workflow
- Internet Archive ingest workflow
- Administrative interface
- Scalable cloud deployment



### PROJECT UPDATES



#### **UPDATES: ZOONIVERSE**



#### Transcriptions now available!

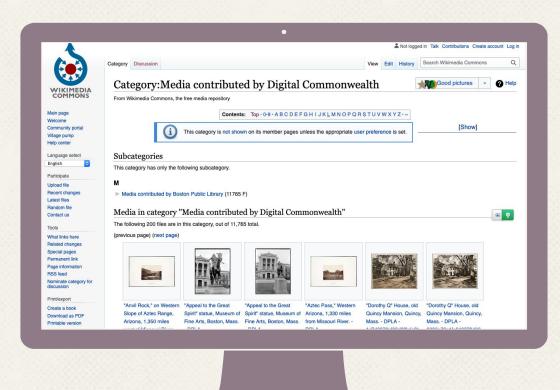
- Crowd-sourced transcription of letters from BPL Anti-Slavery Collection
- Over 12K letters transcribed
- Downloadable PDF transcription
- Full-text search w/highlighting

#### **UPDATES: ZOONIVERSE**



Viewing: *In Memoriam by William Lloyd Garrison, Boston, [Mass.], June 20, 1878*Boston Public Library; Anti-Slavery (Collection of Distinction)
<a href="https://ark.digitalcommonwealth.org/ark:/50959/cv43qb980">https://ark.digitalcommonwealth.org/ark:/50959/cv43qb980</a>

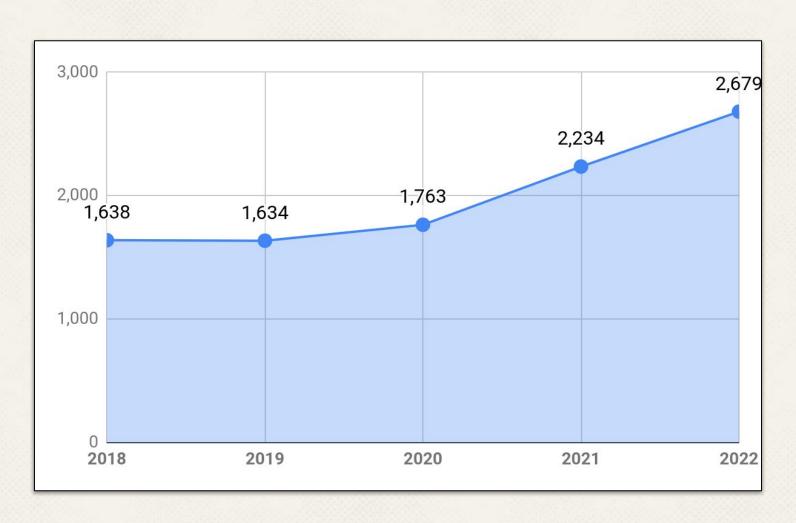
## UPDATES: WIKIMEDIA COMMONS



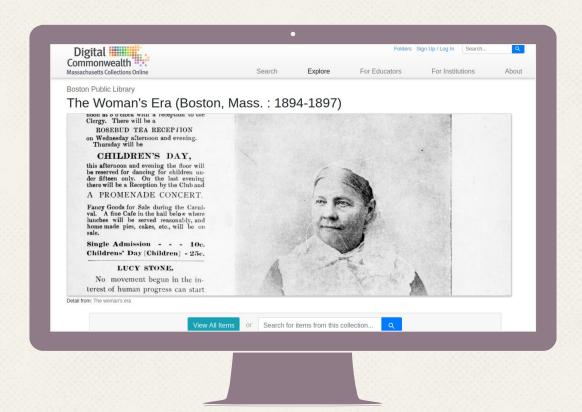
- 20K image files uploaded to Wikimedia Commons by DPLA
- Public-domain and select Creative Commons-licensed items
- BPL; Mass. Archives, Dept. of Conservation & Recreation;
   Phillips Academy Andover; National Archives Boston

#### **WIKIMEDIA: TRAFFIC**

Sessions with referral from Wikipedia or Wikimedia sites:



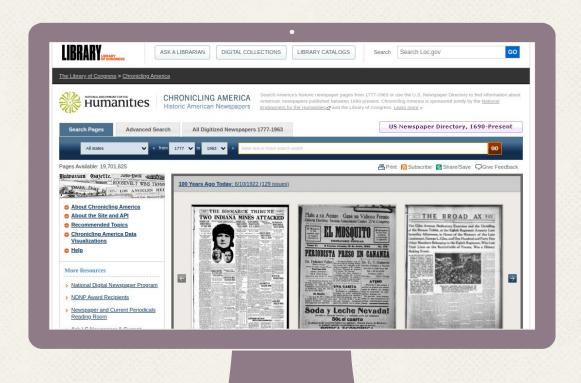
## UPDATES: NEWSPAPERS



#### Microfilm scanning at BPL

- Building capacity: scanning, collation, metadata, OCR, ingest
- Woman's Era; Tocsin of Liberty; Lawrence Evening Tribune
- Focus on smaller runs of historically significant, underrepresented titles

## UPDATES: NEWSPAPERS



#### **National Digital Newspaper Program**

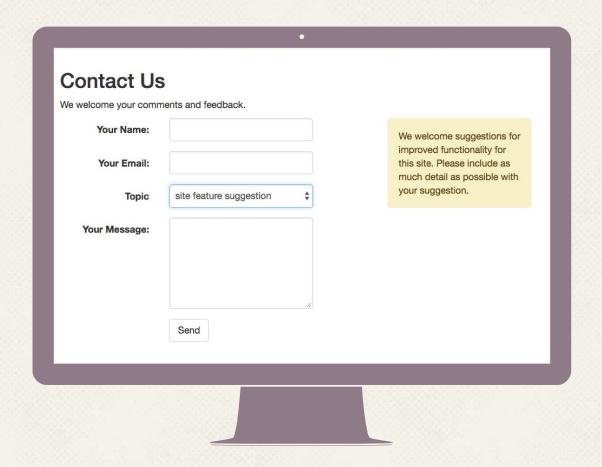
- Two-year grant to contribute 100K pages to **chroniclingamerica.loc.gov**
- Titles selected by committee of librarians, scholars, and educators
- Content will also be available in digitalcommonwealth.org

## UPDATES: NEWSPAPERS

#### **MyHeritage**

- Sharing microfilm and digitized images
- 7 million pages scanned to date
- Seeking funding to process materials to NDNP-level specifications
- Pilot project underway focusing on Boston neighborhood newspapers from mid-1800s to mid-1900s

#### FEATURES: HOW TO REQUEST



digitalcommonwealth.org/feedback

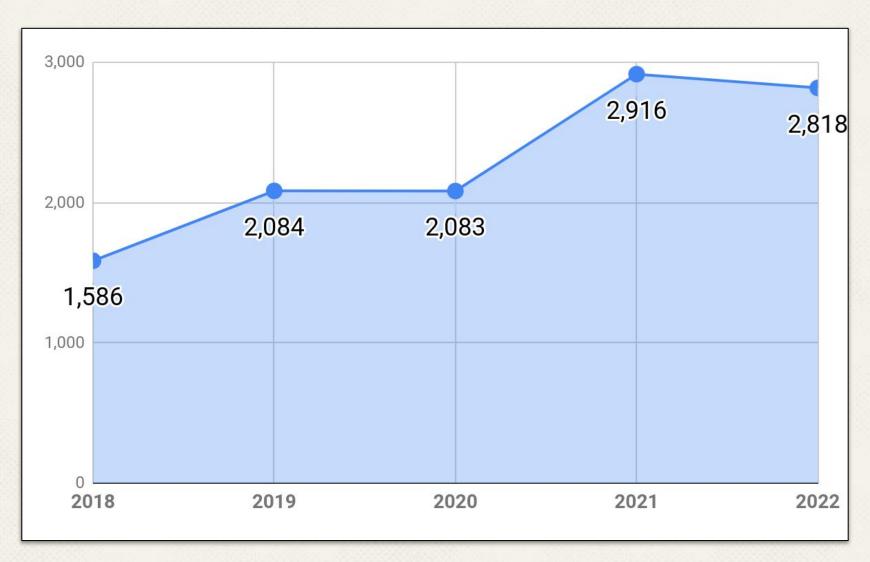
Select "site feature suggestion"

### USAGE TRENDS

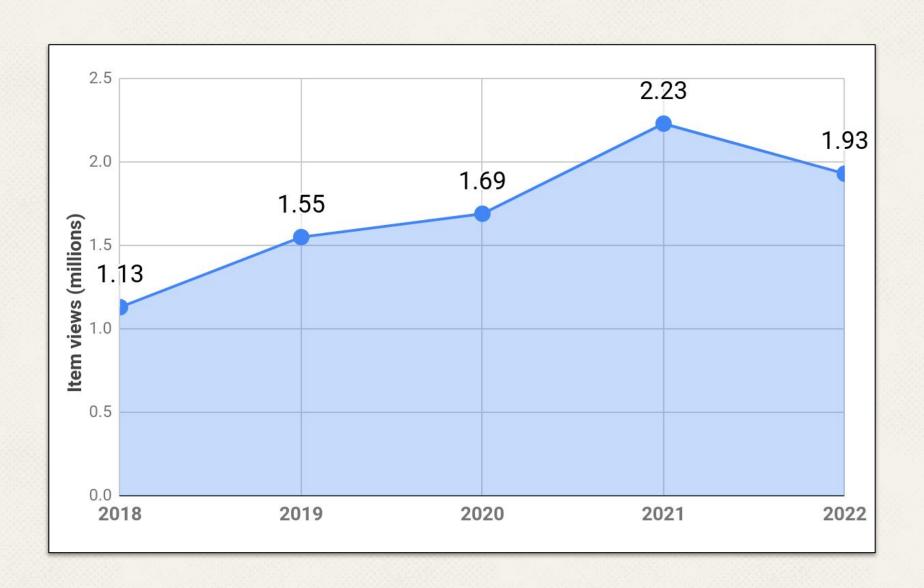


Two unidentified people with Gemini 12 capsule
Boston Public Library; Press Photography from the Brearley Collection
<a href="https://ark.digitalcommonwealth.org/ark:/50959/rb68z758v">https://ark.digitalcommonwealth.org/ark:/50959/rb68z758v</a>

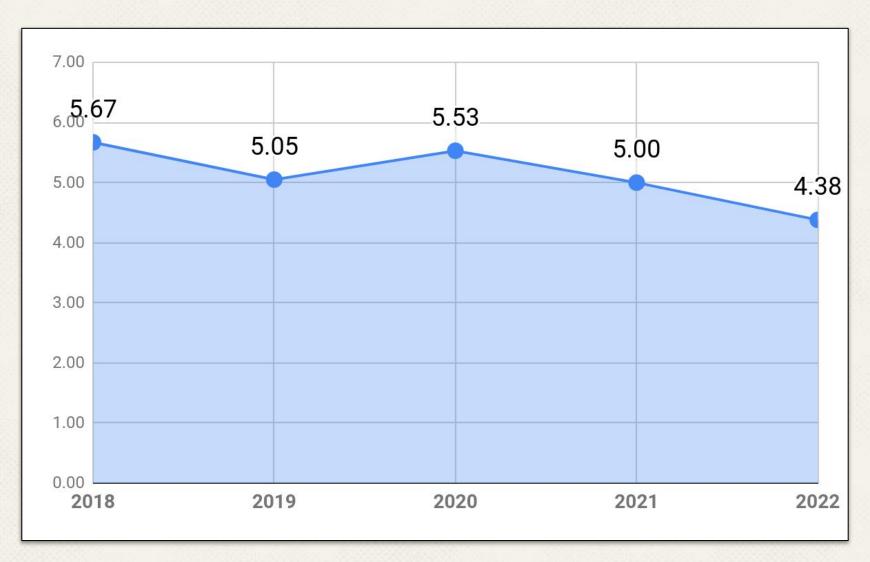
#### USAGE: SESSIONS PER DAY



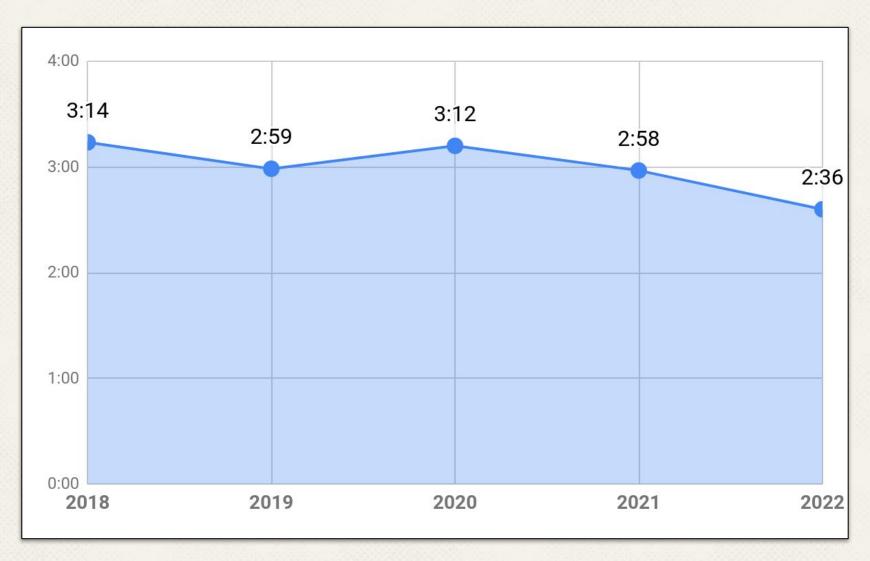
#### **USAGE: ITEM VIEWS**



# USAGE: PAGES PER SESSION

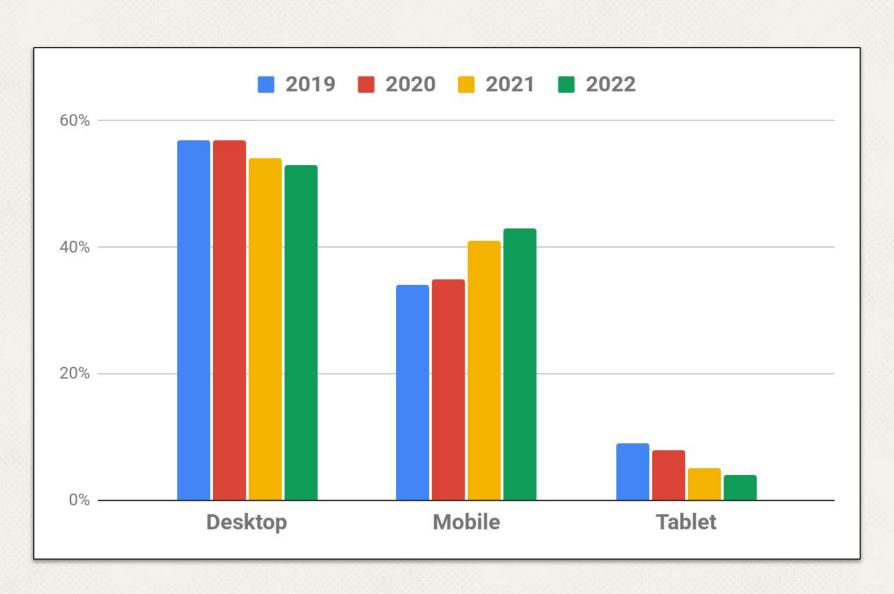


# USAGE: SESSION LENGTH



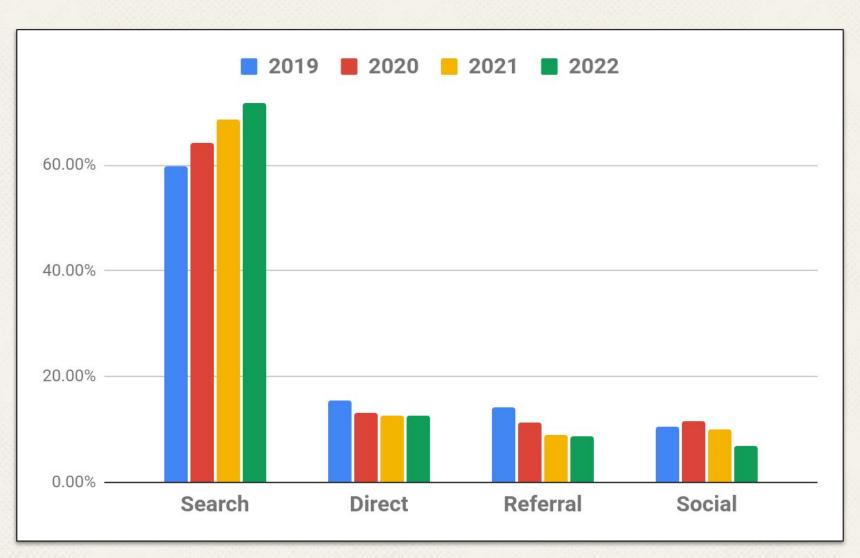
#### **USAGE: DEVICES**

**Last 4 Years** 



## USAGE: TRAFFIC SOURCES

**Last 4 Years** 



## USAGE: TOP REFERRING SITES

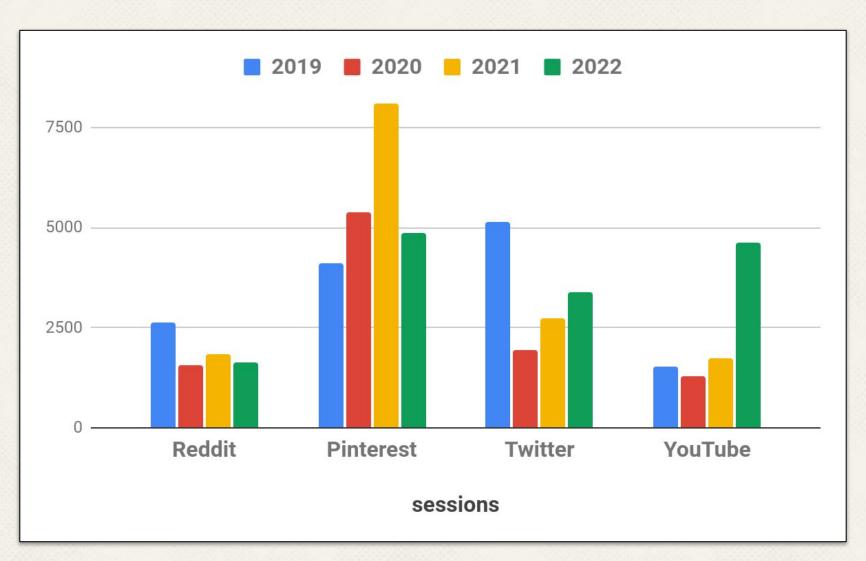
bpl.org	17,503
dp.la	10,680
revolution250.org	2,543
omnia.ie	2,493
en.wikipedia.org	1,703
sec.state.ma.us	1,507
kottke.org	1,326
classroom.google.com	1,227
brooklinehistoricalsociety.org	1,095
universalhub.com	875

# USAGE: REFERRING SITES HONORABLE MENTIONS

jphs.org	720
medfordhistorical.org	667
bostonbasinhills.org	665
pem.org	627
thomascranelibrary.org	507
mass.gov	494
guides.newtonfreelibrary.net	473
libguides.uml.edu	381
newbedford-ma.gov	375
lawrencehistory.org	356

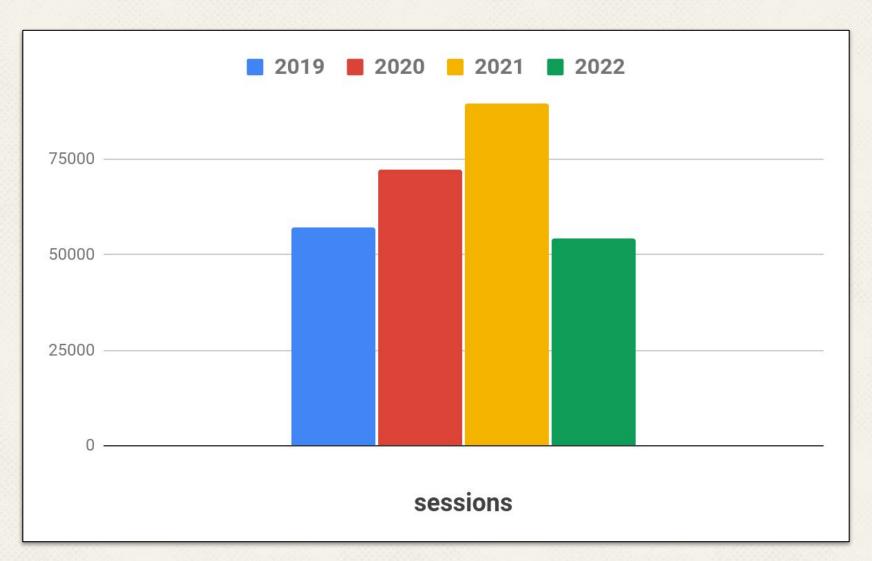
## **USAGE: SOCIAL**

**Last 4 Years** 



## USAGE: FACEBOOK \_\_\_\_

**Last 4 Years** 



## USAGE: SITE SEARCH SESSIONS WITH SEARCHES

**Last 5 Years** 



## USAGE: SITE SEARCH SEARCH TERMS

apollo 8 christmas marblehead baseball Charlestown north andoverrailroad Northeastern basketball samuel Chamberlain jamaica plaincambridge larz andersonbraves field roxbury Medford central power station amesbury civil war salem salem willows china billerica boston West Roxbury

boston harbor ships Malden Stoughton FayFoto busing for school integration chicopee

brookline south boston Squantum Almhouse Quincy Methuen

MICHAEL JORDAN fens framingham school penn central expressway quabbin new bedford

christmas trurogardening Leslie Jones egypt dorchester battleship worcester yearbooks The newshour with jim Lehrer

Hopkinton oak hill the lancaster oak



MOST-VIEWED ITEMS

- April 2021 March 2022
- Unique page views
- Includes change from previous year
  - □ Baseline: -13%

#20: 922 views (-8%)



Ascending and descending

Boston Public Library; M. C. Escher (1898-1972). Prints and Drawings https://ark.digitalcommonwealth.org/ark:/50959/3r076s51v

#19: 929 views (+216%)



Aerial view of Kennedy Compound, Hyannis Port, Mass.

Historical Society of Old Yarmouth Archives and Local History Collection https://ark.digitalcommonwealth.org/ark:/50959/fx71d959s

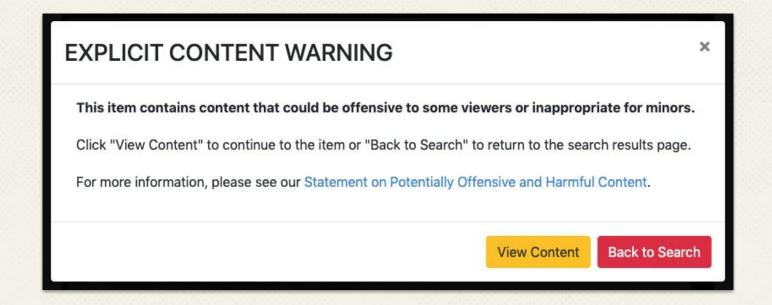
#18: 957 views (+24%)



Last of Baby Face Nelson

Boston Public Library; Leslie Jones Collection https://ark.digitalcommonwealth.org/ark:/50959/sj139q94k

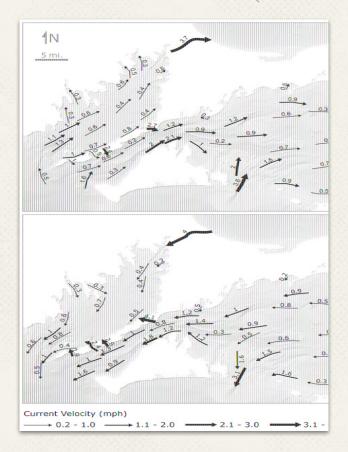
#17: 962 views (+57%)



### Nudists perform play "Barely Proper," Assonet

Boston Public Library; Spencer Grant Collection https://ark.digitalcommonwealth.org/ark:/50959/qr46r4908

#16: 977 views (+28%)



### Tidal Currents through Vineyard and Nantucket Sounds

Harvard Forest Archives; Harvard Forest Martha's Vineyard Collection https://ark.digitalcommonwealth.org/ark:/50959/vh53xt772

#15: 1,033 views (+70%)



## Möbius strip II (red ants)

Boston Public Library; M. C. Escher (1898-1972). Prints and Drawings https://ark.digitalcommonwealth.org/ark:/50959/3r076s371

#14: 1,157 views (-75%)

	K. K. K.
10-23	If you are interested in becoming a member of the Knights of the Kn Kin Kian, or if you desire more information about it, fill out this slip and real to  P. O. BOX 576, PENNS GROVE, N. J.  The requirements for membership are that you is White, Native-been, Protestant Gentile American who believes is the United States of America above any other Government, orly, political or ecclesiatical; who will support the principles of Pree Public Schools, Free Speech, Penn Press, Separation of Church and State, Liberty, White Support
Spire.	ncy, Just Love, the Pursuit of Happiness and the Substity of the Home.
	Name
	Occupation Age
	Address to which You Want Mail Sent
	In Which County do You Live?
	To What Church Do You Belong?
	To What Praternal Orders Do You Belong
	I am interested in becoming a member, I desire further information regarding the K. K.
	THE REAL PROPERTY.

## K. K. K. application form

University of Massachusetts Amherst Libraries; W. E. B. Du Bois Papers http://credo.library.umass.edu/view/full/mums312-b157-i167

#13: 1,172 views (-34%)



### World's largest trailer park, Bradenton, Florida

Boston Public Library; Tichnor Brothers Postcard Collection https://ark.digitalcommonwealth.org/ark:/50959/mp48sw766

#12: 1,187 views (+149%)



Map of Connecticut, circa 1625, Indian trails, villages, sachemdoms

Boston Public Library; Norman B. Leventhal Map Center Collection

https://ark.digitalcommonwealth.org/ark:/50959/0r96fm716

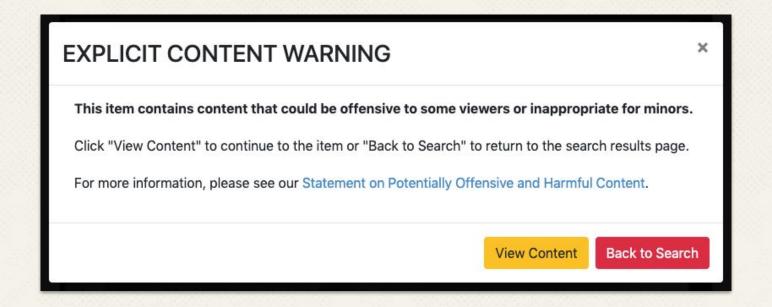
#11: 1,194 views (+75%)



## Metamorphosis II

Boston Public Library; M. C. Escher (1898-1972). Prints and Drawings https://ark.digitalcommonwealth.org/ark:/50959/ww72cb78j

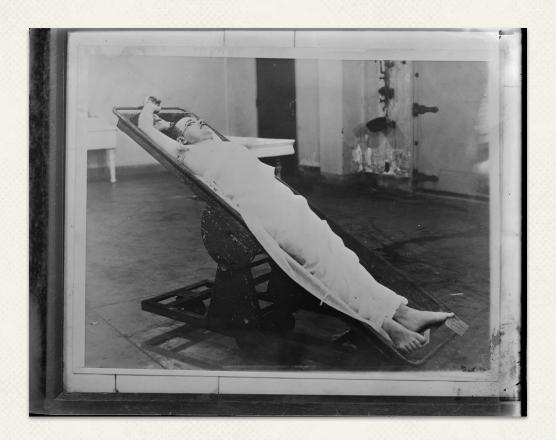
#10: 1,263 views (+26%)



## Nude colony picture from German magazine

Boston Public Library; Leslie Jones Collection https://ark.digitalcommonwealth.org/ark:/50959/sj139r66m

#9: 1,350 views (+234%)



John Dillinger killed at last

Boston Public Library; Leslie Jones Collection https://ark.digitalcommonwealth.org/ark:/50959/sj139q807

#8: 1,426 views (+185%)

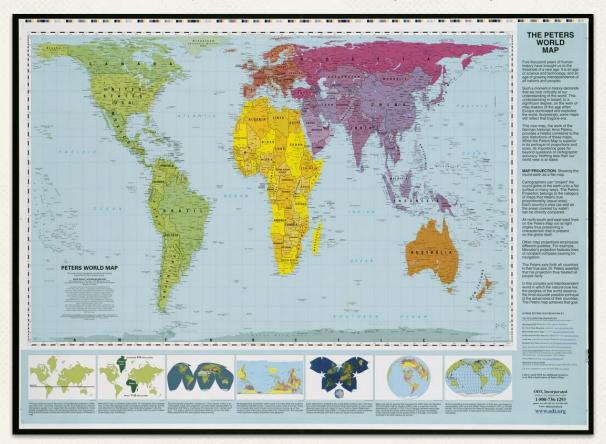


Rocky Marciano and Barbara Cousins on their wedding day

Boston Public Library; Press Photography from the Brearley Collection

https://ark.digitalcommonwealth.org/ark:/50959/1831dk84n

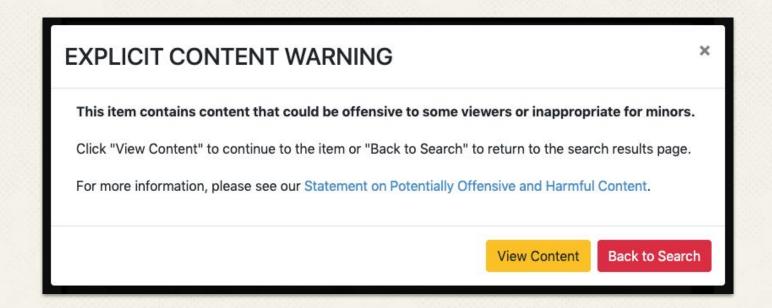
#7: 1,495 views (-40%)



## Peters World map

Boston Public Library; Norman B. Leventhal Map Center Collection https://ark.digitalcommonwealth.org/ark:/50959/x633f923g

#6: 3,018 views (+20%)

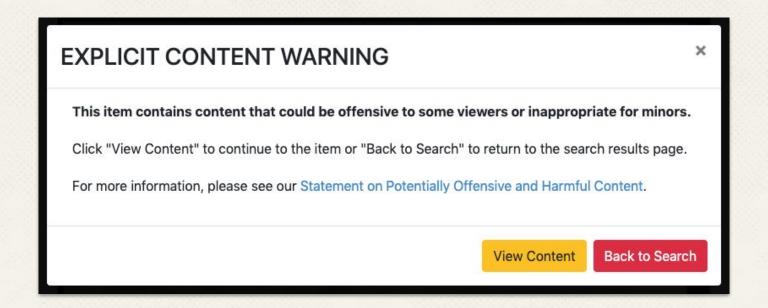


Row of naked boys stand on diving board at indoor pool

Boston Public Library; Leslie Jones Collection

https://ark.digitalcommonwealth.org/ark:/50959/sj139t64g

#5: 3,439 views (+85%)



Row of naked boys stand on diving board at indoor pool

Boston Public Library; Leslie Jones Collection

https://ark.digitalcommonwealth.org/ark:/50959/sj139t62x

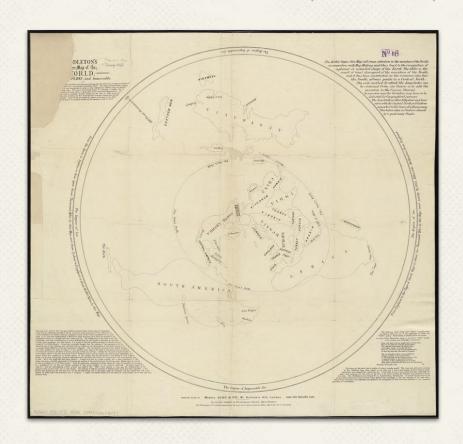
#4: 4,017 views (+66%)



The bloody massacre perpetrated in King-Street Boston

Boston Public Library; Colonial and Revolutionary Boston (Collection of Distinction) https://ark.digitalcommonwealth.org/ark:/50959/vh53x3780

#3: 4,752 views (+520%)



[Mid]dleton's [pione]er map of the [w]orld, [as a?] plane and immoveable

Boston Public Library; Norman B. Leventhal Map Center Collection

https://ark.digitalcommonwealth.org/ark:/50959/7h149v83d

#2: 8,657 views (-13%)



Nudist beauty contest winner, Assonet

Boston Public Library; Spencer Grant Collection https://ark.digitalcommonwealth.org/ark:/50959/qb98mv10z

#1: 24,129 views (+22%)



Gleason's new standard map of the world

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

#### **USAGE: THOUGHTS**

- Top 20 item views make up only 3% of total
- A single news article or social media post can significantly influence overall usage
- Numbers down from last year, but still seeing steady growth
- Increasing engagement from Wikipedia and Google Classroom

#### WE HAVE WORK TO DO

- Better contextualization of problematic content
- Increase diversity of digital collections
- Promote collections more actively on social media
- Connect existing users to more items of interest
- Disseminate content outside our own silo
- More educational resources, curated collections
- Connect historical materials to current events

## IT'S BEEN A TREAT!



## Feedback Welcome:

eenglish [at] bpl [dot] org@ebenenglish (twitter, github)

Apollo confections