

DIGITAL COMMONWEALTH



**Repository Systems Update
2019**



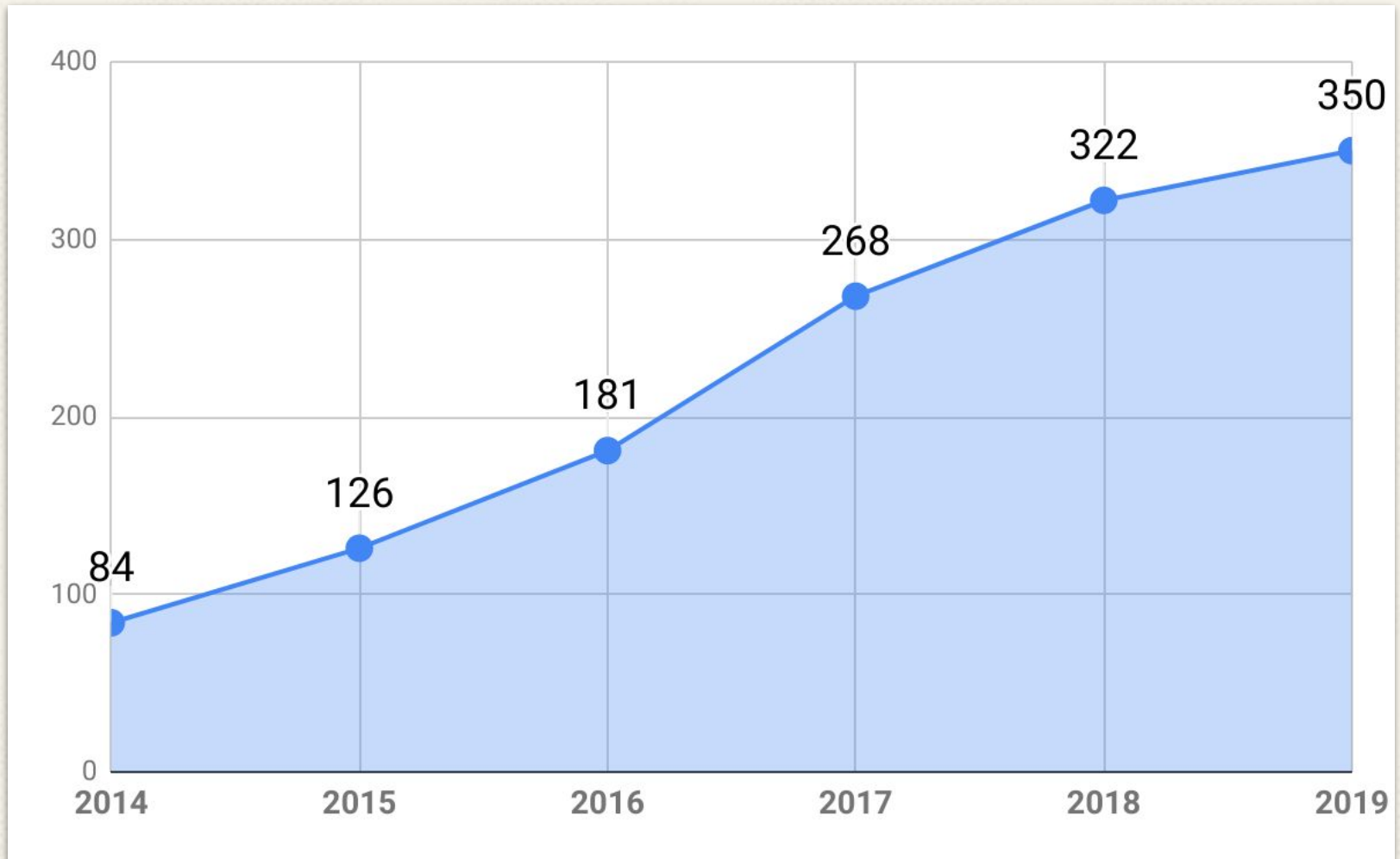
Wooden Anniversary Edition

Five years of protection, trust, hope, and perseverance...



GROWTH CHART

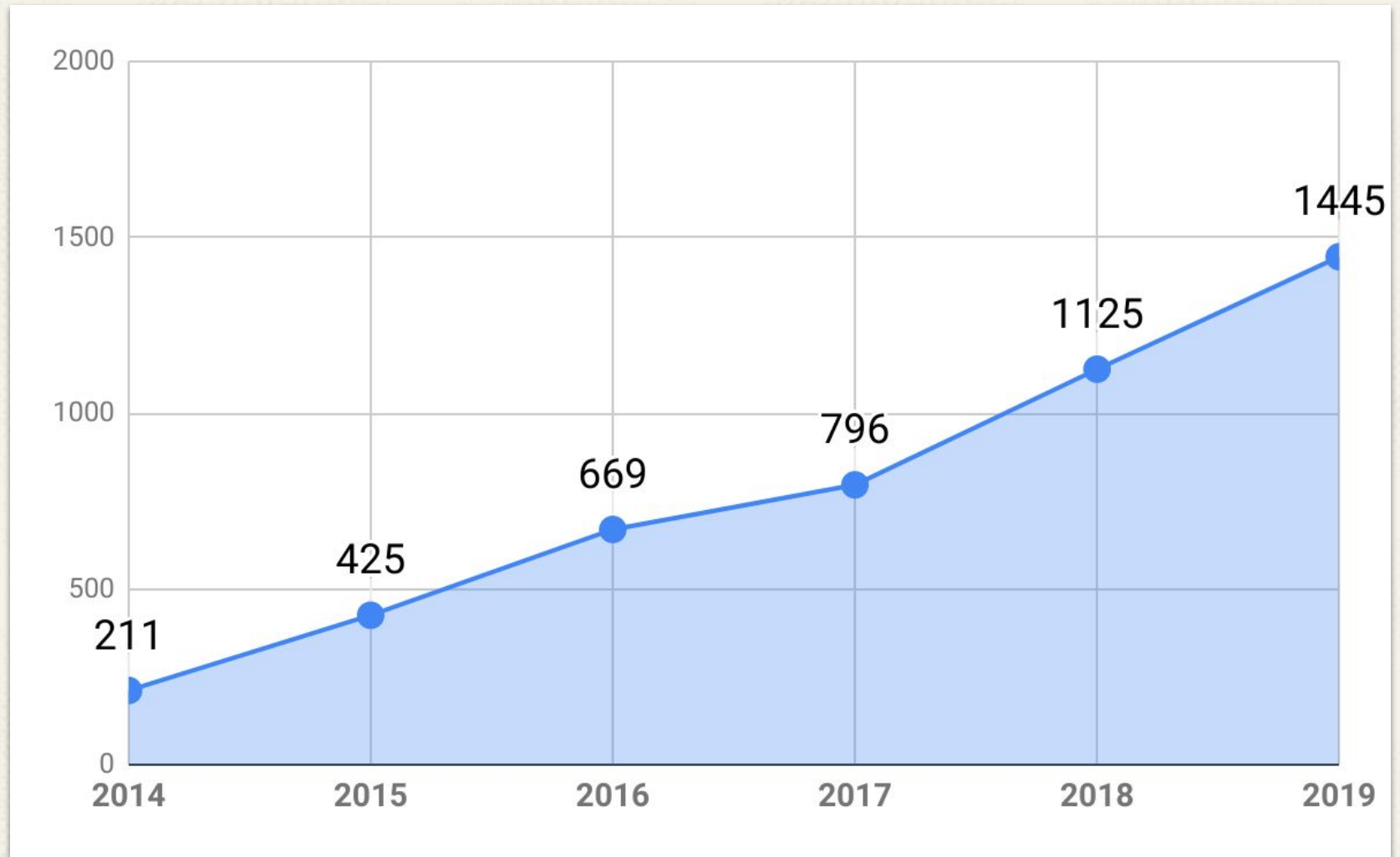
GROWTH: INSTITUTIONS



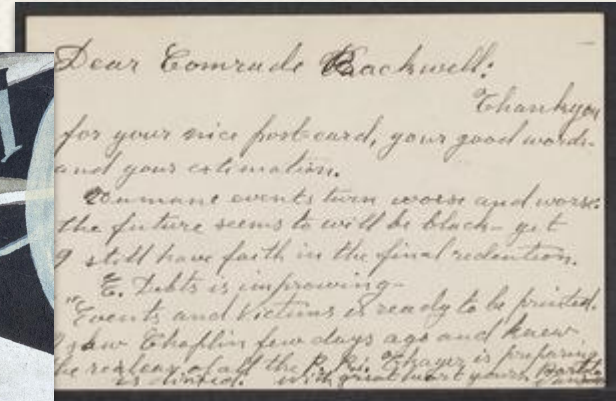
GROWTH: NEW INSTITUTIONS

- AgitArte
- Cambridge Historical Commission
- Coast Guard Heritage Museum
- Harvard Law School Library
- Historical Society of Old Newbury
- Holyoke Community College
- Milford Town Library
- Museum of Medical History and Innovation at Mass. General Hospital
- National Archives and Records Administration
- Sandwich Town Archives
- Wayland Town Clerk

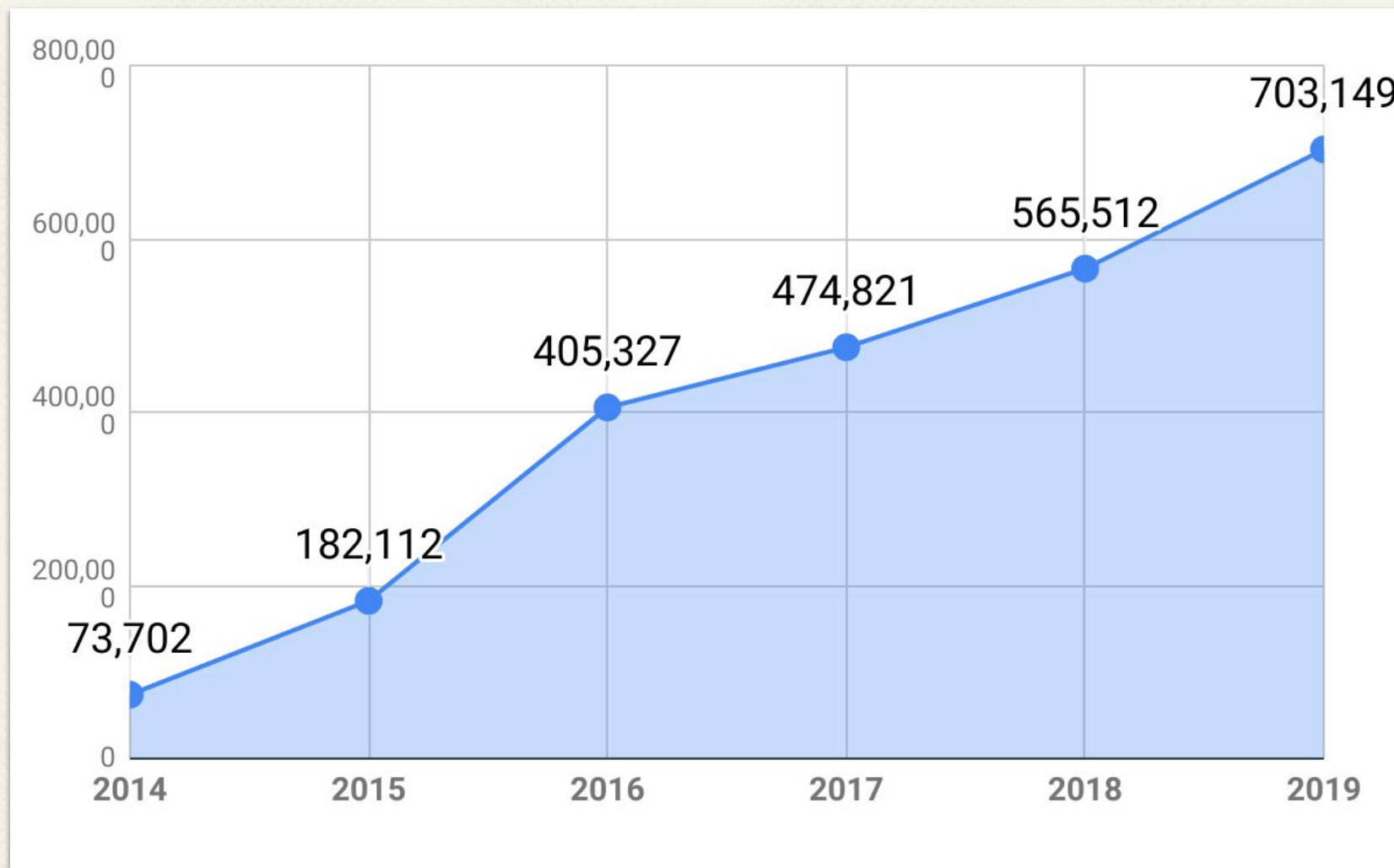
GROWTH: COLLECTIONS



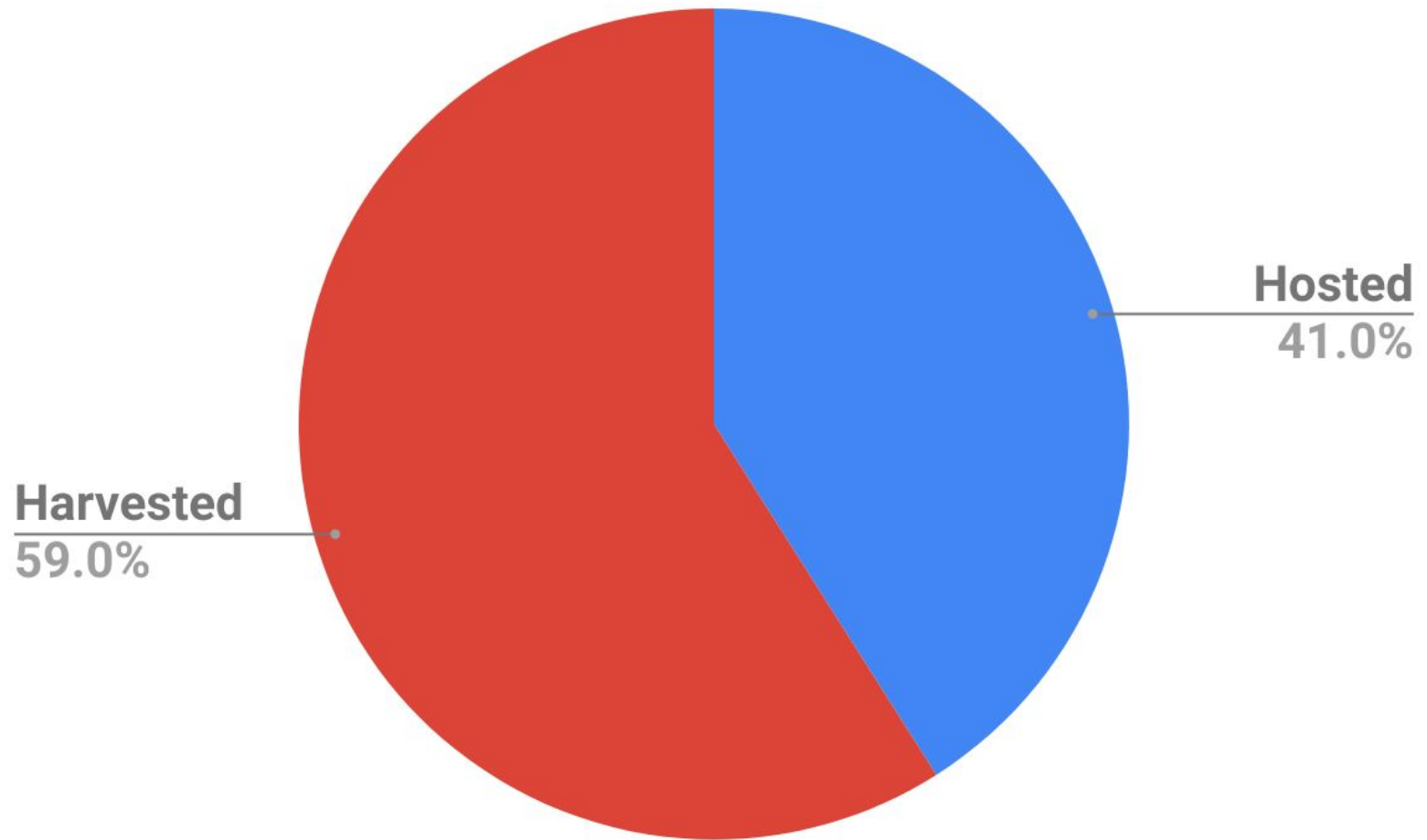
GROWTH: NEW COLLECTIONS



GROWTH: TOTAL ITEMS

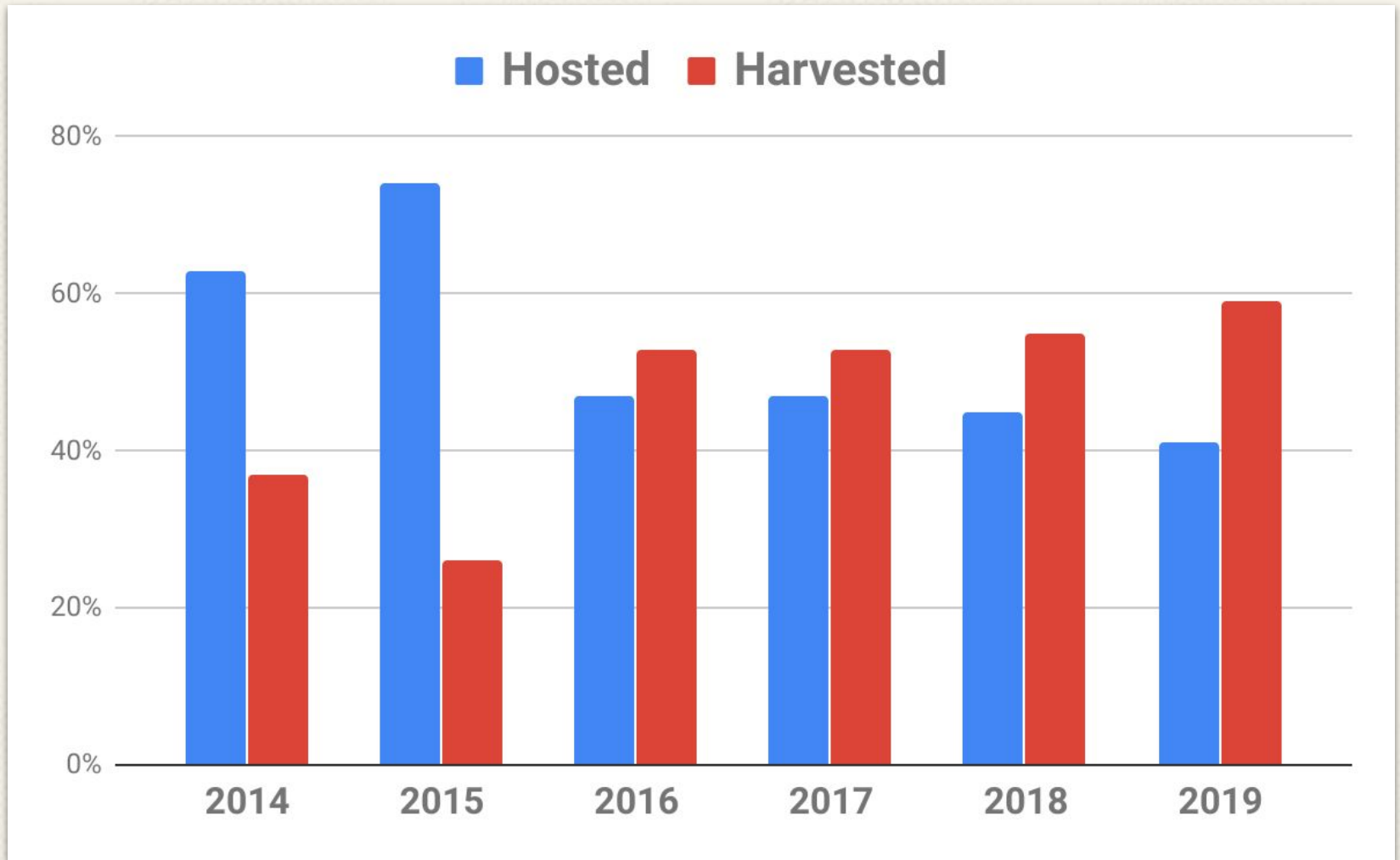


GROWTH: HARVESTED v. HOSTED

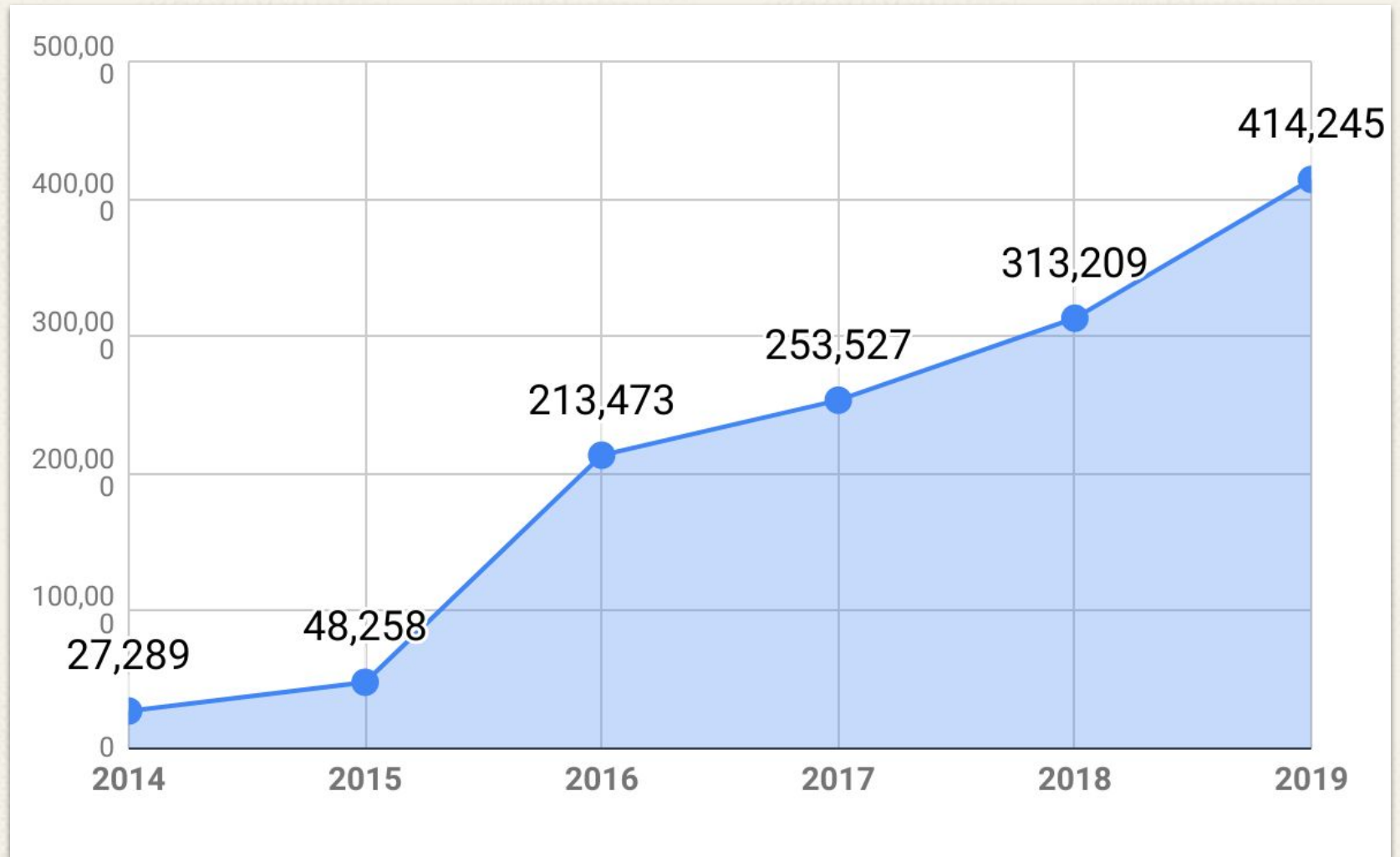


GROWTH: HARVESTED v. HOSTED

Last 6 Years



GROWTH: HARVESTED ITEMS



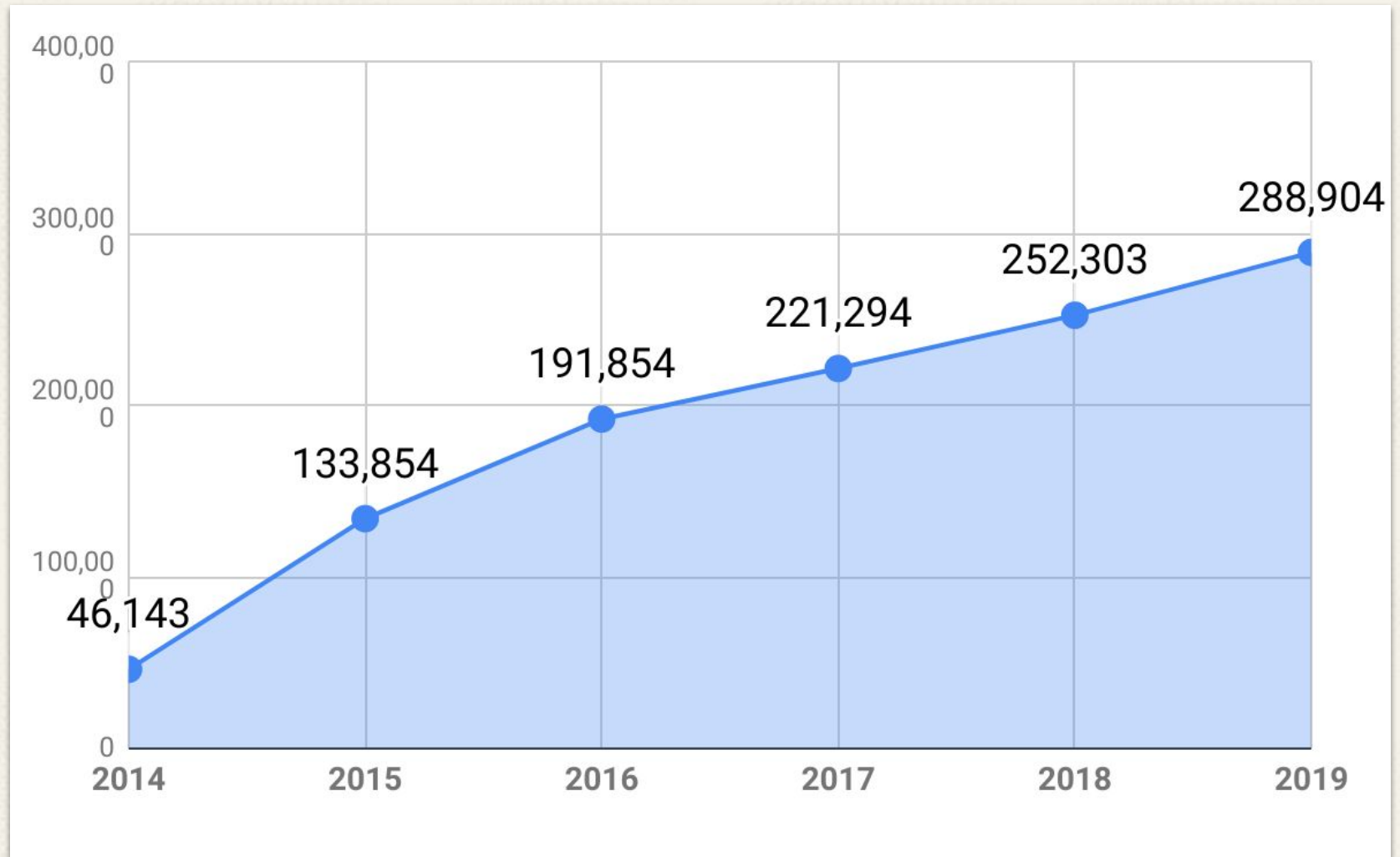
GROWTH: NEW HARVESTS

- Historic New England
- New England Historic Genealogical Society
- Scottish Rite Masonic Museum
- Wheaton College

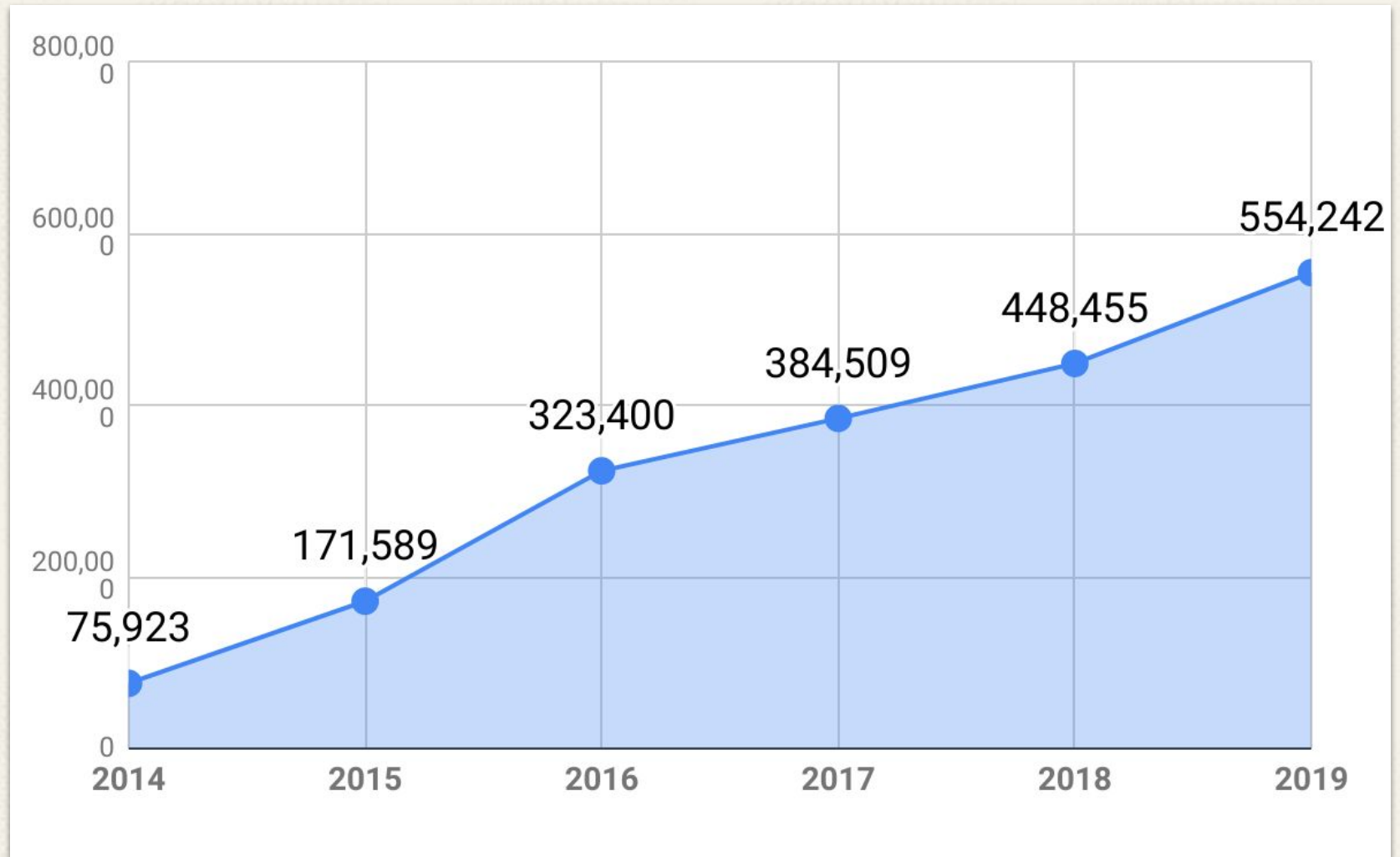
GROWTH: RE-HARVESTS

- Boston College
- City of Boston Archives
- Chicopee Public Library
- Clark Art Institute
- Digital Transgender Archive
- Massachusetts Historical Society
- SAILS
- Springfield College Archives
- UMass Amherst

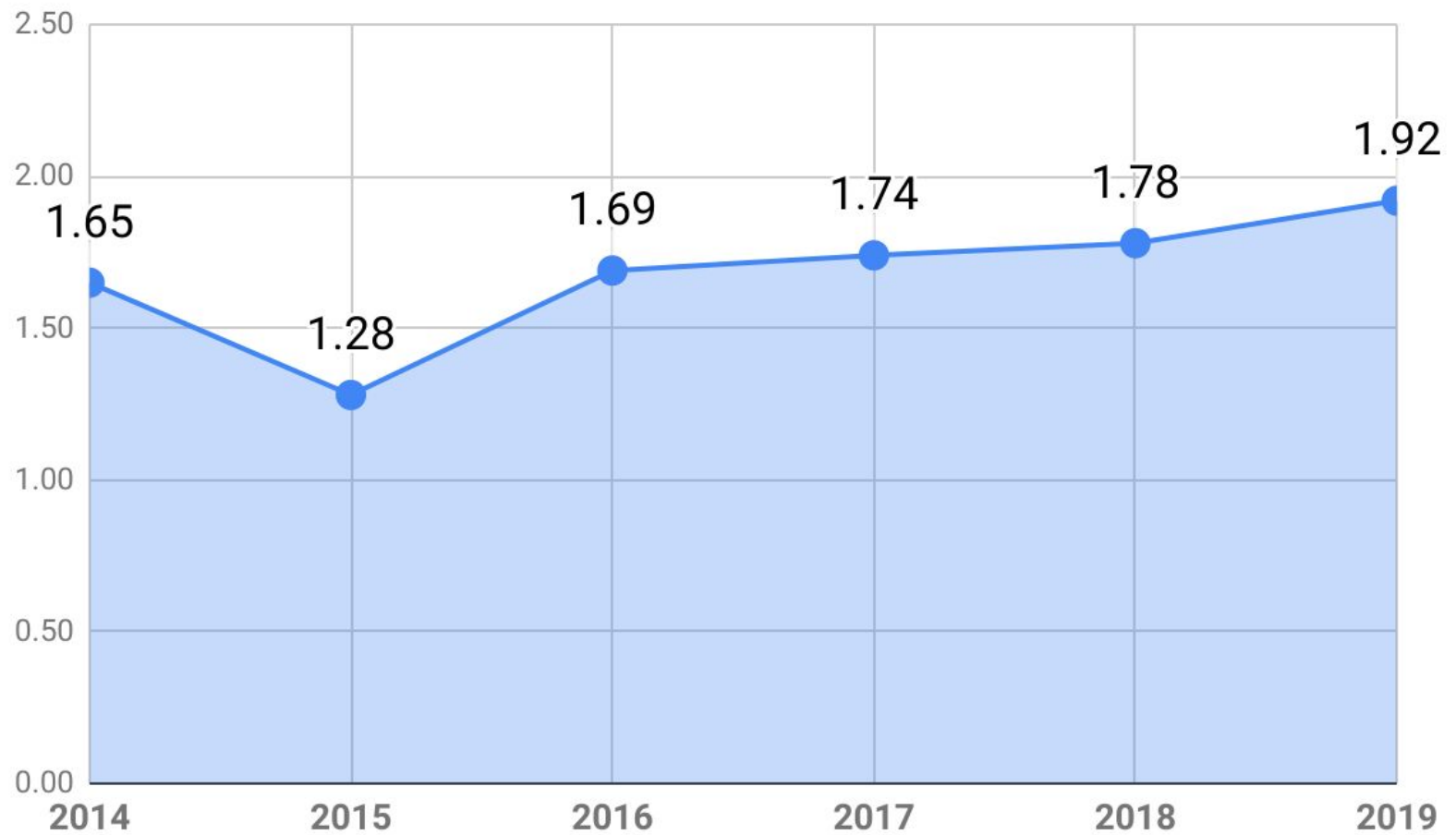
GROWTH: HOSTED ITEMS



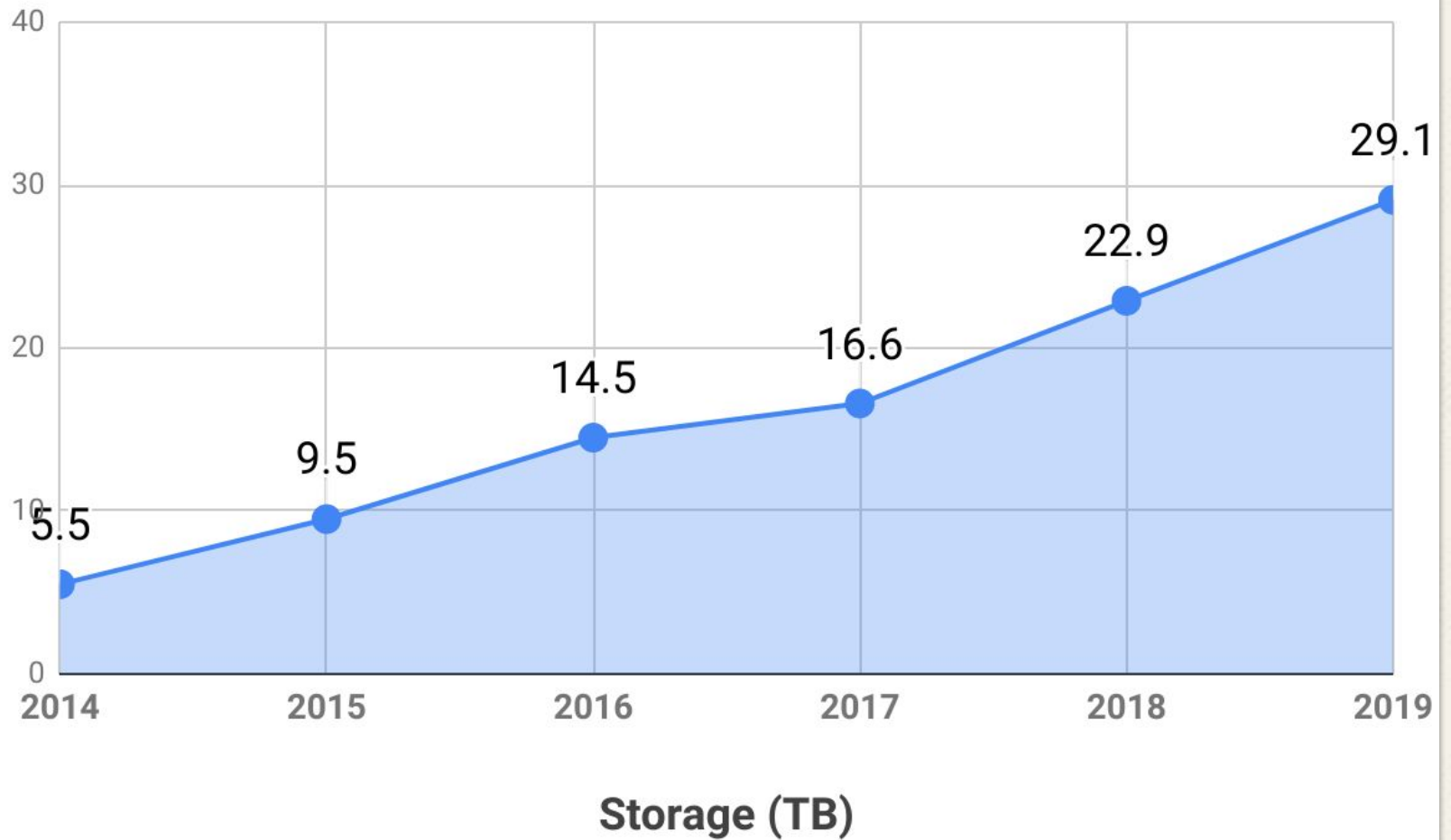
GROWTH: FILES



GROWTH: FILES PER ITEM



GROWTH: STORAGE



GROWTH: STORAGE



<https://ark.digitalcommonwealth.org/ark:/50959/5h73tw16r>

GROWTH: STORAGE

- Incoming projects will require exponential growth in storage capacity
 - books from Internet Archive
 - newspapers
 - audiovisual content
- Managing storage at this level adds cost, workload
 - increased staffing needs
 - reduced capacity for new development



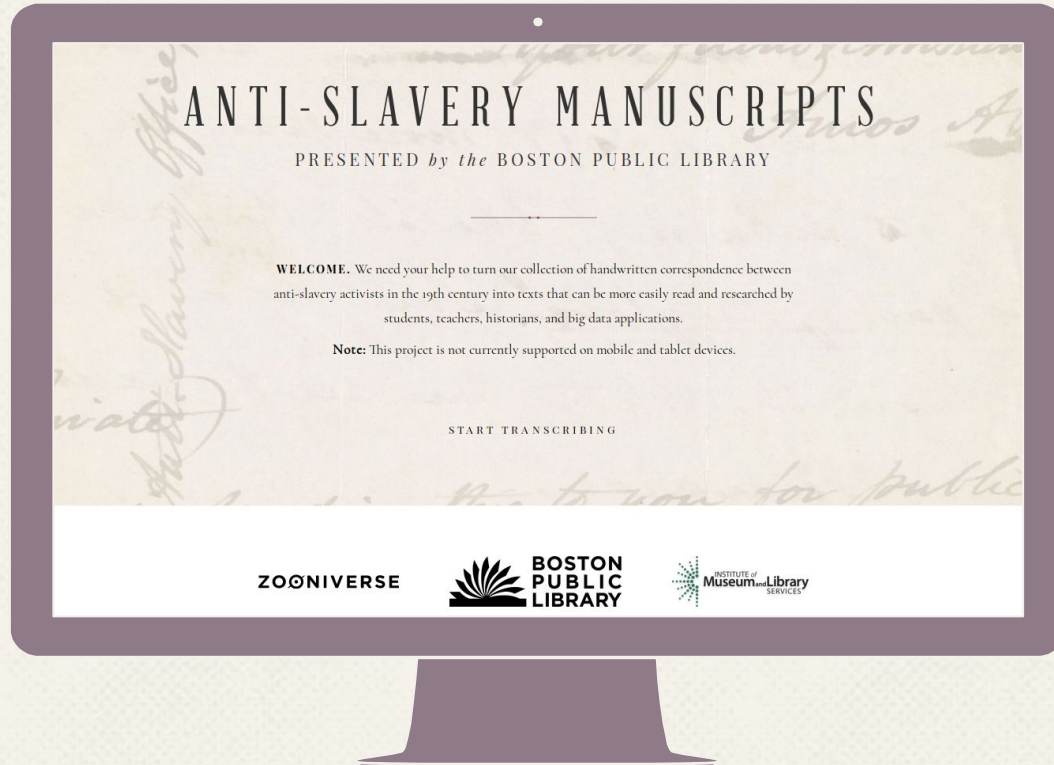
UPDATES

UPDATES: NEW DEVELOPER



BEN BARBER

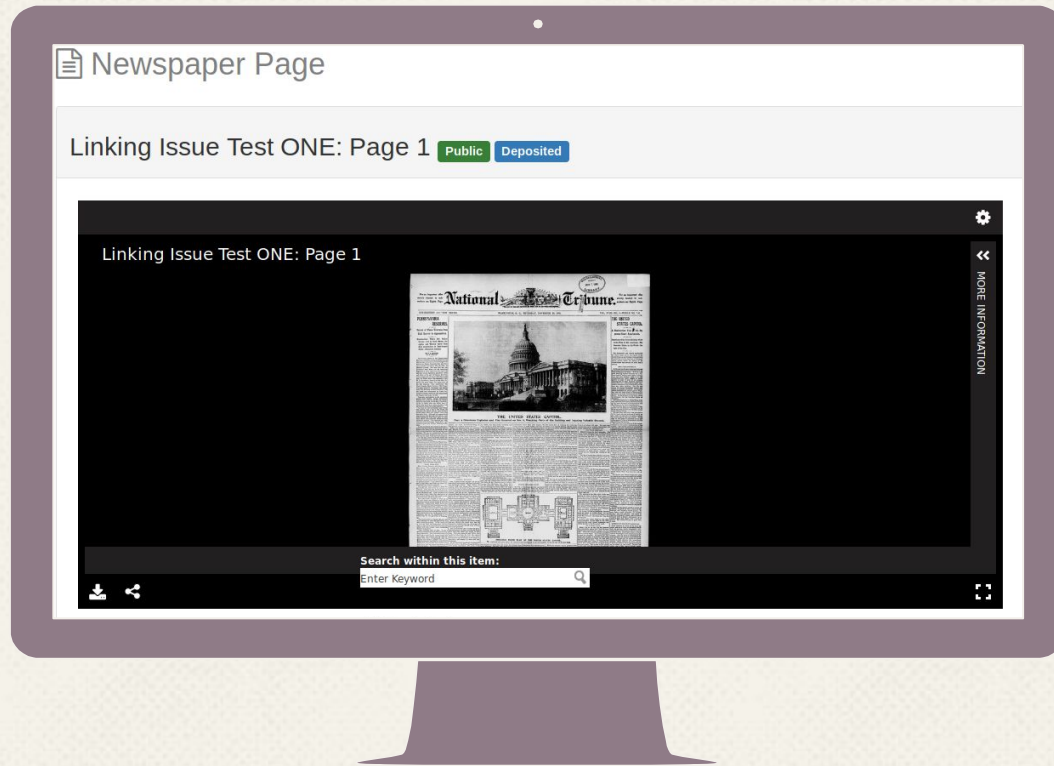
UPDATES: ZOONIVERSE



antislaverymanuscripts.org

- Crowd-sourced transcription of letters from BPL Anti-Slavery Collection
- 11.7K items to transcribe
- Over 3K volunteers
- Will support full-text search w/highlighting

UPDATES: NEWSPAPERS GRANT



github.com/marriott-library/newspaper_works

- 2-year IMLS grant; partnership between BPL and Univ. of Utah
- Rails plugin to support newspaper content within Samvera framework
- Support batch ingest workflows: issue, page, and article-level objects
- Feature parity with Chronicling America and other systems

UPDATES: MODS TO RDF RECOMMENDATIONS

v.1.0 released

- Samvera Metadata Interest Group
- 3-year collaborative effort
- 15+ libraries
- Provides RDF mapping for MODS XML descriptive metadata elements
- Facilitate sharing metadata in Linked Data context

<mods:genre>

Predicate	Value Type	Usage Notes
edm:hasType	URI or Literal	Use with a genre term from a controlled vocabulary, or a local term.

Example 1: Genre term from Thesaurus for Graphic Materials

XML:

```
<mods:genre authority="gmopc" authorityURI="http://id.loc.gov/vocabulary/graphicMaterials"
  valueURI="http://id.loc.gov/vocabulary/graphicMaterials/tgm009874">
  Sound recordings
</mods:genre>
```

RDF:

```
<https://example.org/objects/1> edm:hasType
<http://id.loc.gov/vocabulary/graphicMaterials/tgm009874> .
```

Example 2: Genre term from Getty Research Institute Art & Architecture Thesaurus

XML:

```
<mods:genre authority="aat" authorityURI="http://vocab.getty.edu/aat"
  valueURI="http://vocab.getty.edu/aat/300375155">
  Science-fiction films
</mods:genre>
```

RDF:

```
<https://example.org/objects/1> edm:hasType <http://vocab.getty.edu/aat/300375155> .
```

Example 3: Genre term from MARC Genre Terms List

XML:

```
<mods:genre authority="marcgt">bibliography</genre>
<mods:genre authority="marcgt">biography</genre>
```

RDF:

```
<https://example.org/objects/1> edm:hasType <http://id.loc.gov/vocabulary/marcgt/bib> ;
edm:hasType <http://id.loc.gov/vocabulary/marcgt/bio> .
```

Available here: goo.gl/Y5CNTt

UPDATES: REPOSITORY COMMITTEE

The Repository Committee provides digitization, metadata, and technology expertise for Digital Commonwealth

- Liaison between BPL development team and DC board
- Site testing, usability, accessibility, etc.
- Prioritization of features for development
- Connect BPL IT infrastructure with broader digital library trends

Volunteers needed!

See [Digital Commonwealth Committees](#) for more info.



FEATURES

FEATURES:

IIIF CONTENT SEARCH



- Full-text search within IIIF Presentation manifest
- <https://iiif.io/api/search/1.0/>

FEATURES:

IIIF CONTENT SEARCH

blacklight_iiif_search

- Ruby gem
- Add IIIF Search functionality to Blacklight apps
- Open source
- https://github.com/boston-library/blacklight_iiif_search

FEATURES: INFRASTRUCTURE

Upgrades to:

- Ubuntu (Linux OS)
- Fedora (storage)
- Solr (indexing)
- Ruby (language)
- Rails (framework)

Provides greater efficiency, security, performance


FEATURES:

PHRASE AUTOCOMPLETE

All Fields ▼

boston

Search 🔍




boston

boston public

boston public library

boston mass

boston college



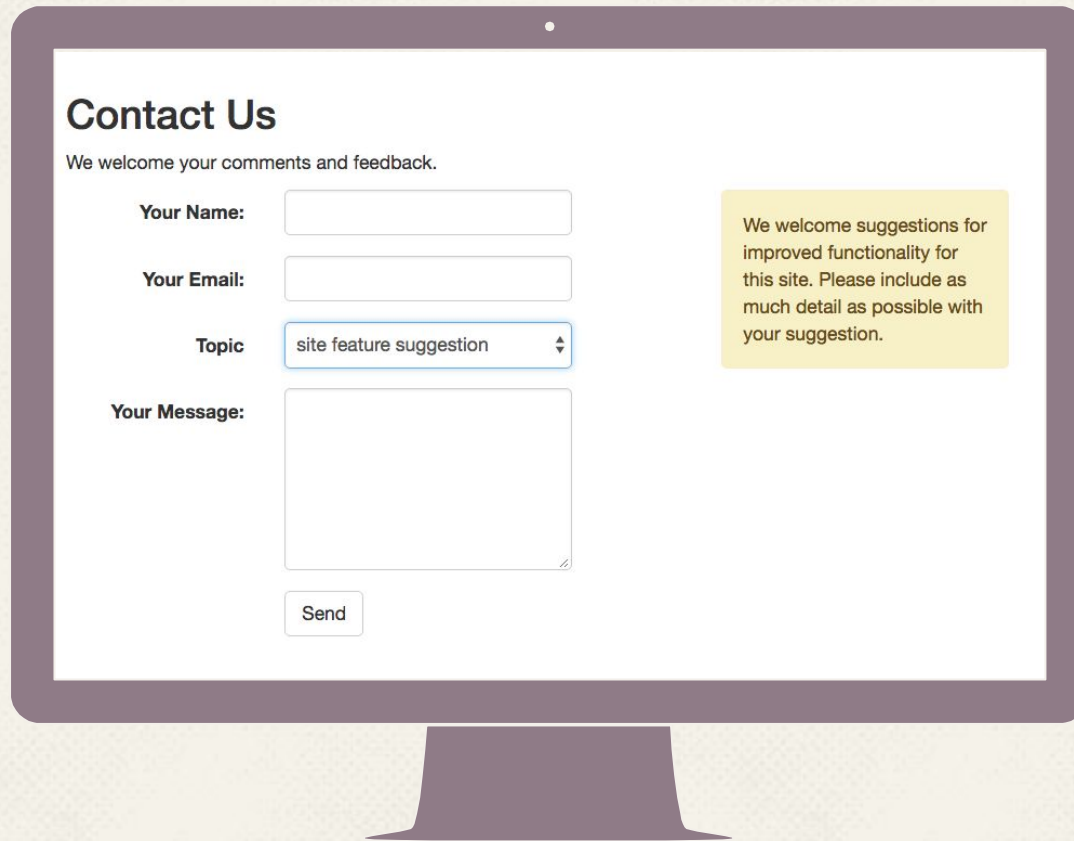
FEATURES: DC 3.0

- Reduce schema dependencies
 - database modeling
 - generate serializations on demand
- More scalable
 - storage should be easily added
 - load balancing, replication, sharding
- API first
 - ability to swap out components as needed
- Microservices model
 - many pieces with fewer responsibilities

FEATURES: DC 3.0

- Facet by public domain status
- Embed images
- Display georeferenced maps
- Slideshow enhancements
- PDF Viewer
- Human-readable URL slugs

FEATURES: HOW TO REQUEST



Contact Us

We welcome your comments and feedback.

Your Name:

Your Email:

Topic:

Your Message:

We welcome suggestions for improved functionality for this site. Please include as much detail as possible with your suggestion.

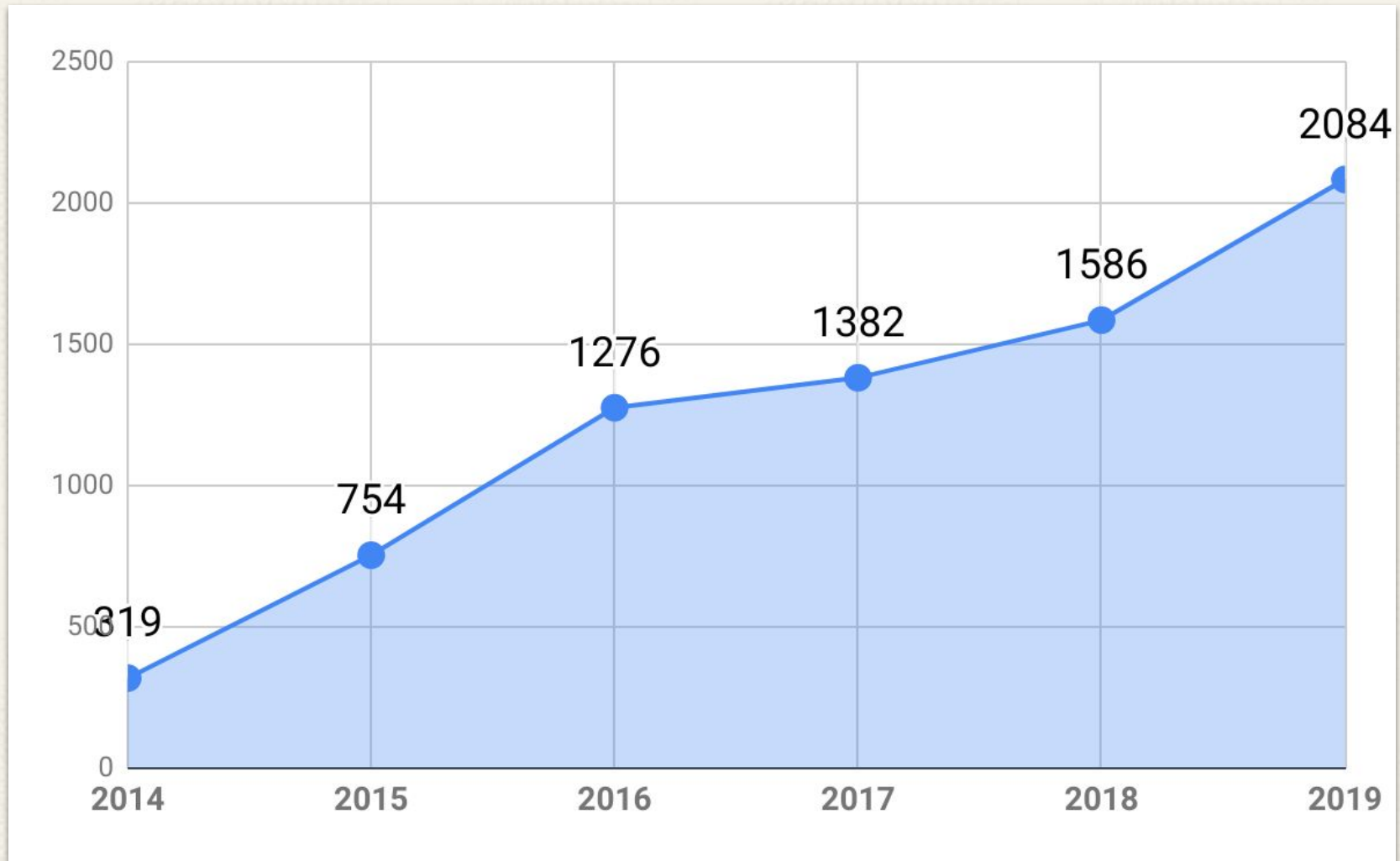
digitalcommonwealth.org/feedback

- Select “site feature suggestion”

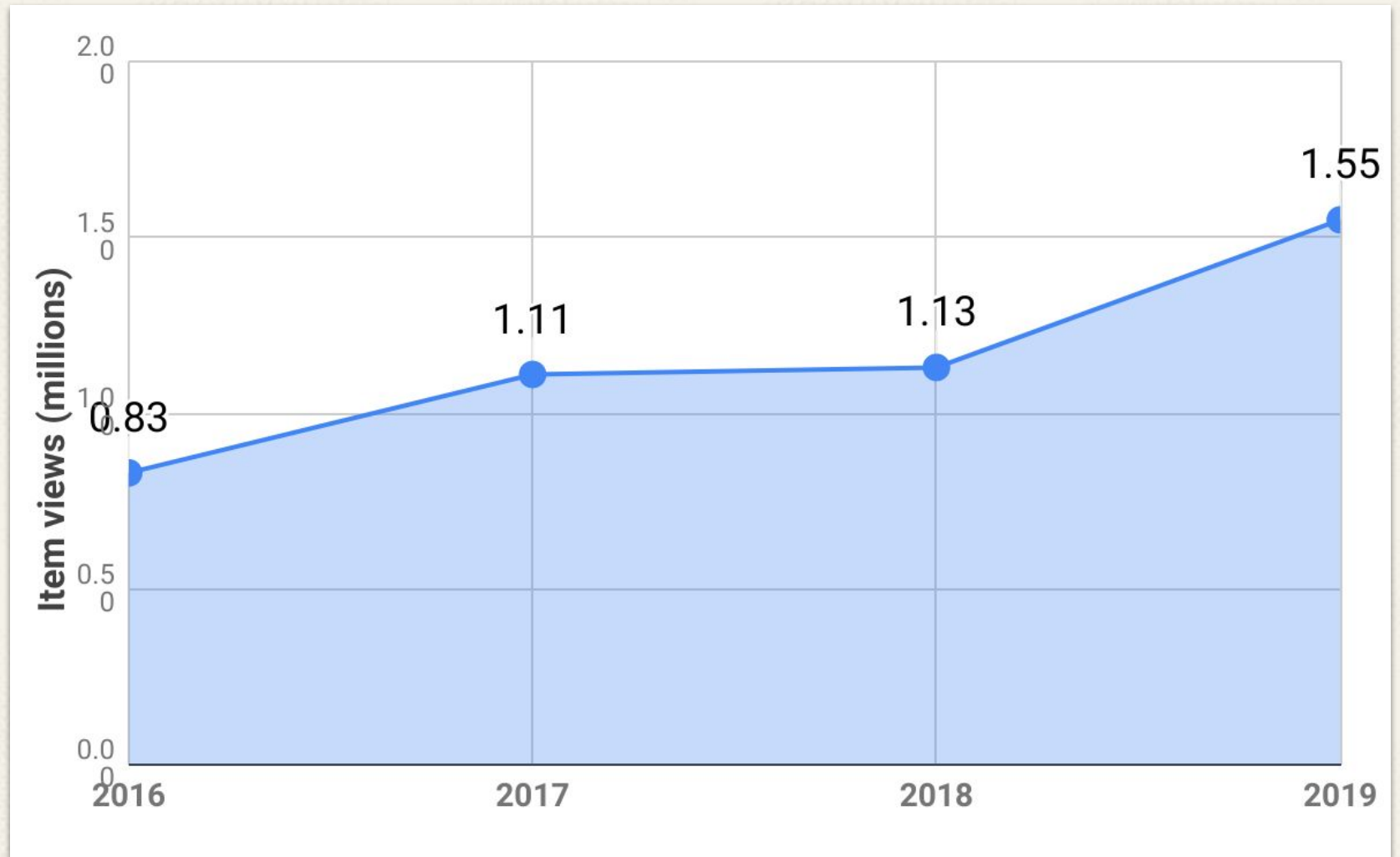
USAGE

Who, when, where, wtf

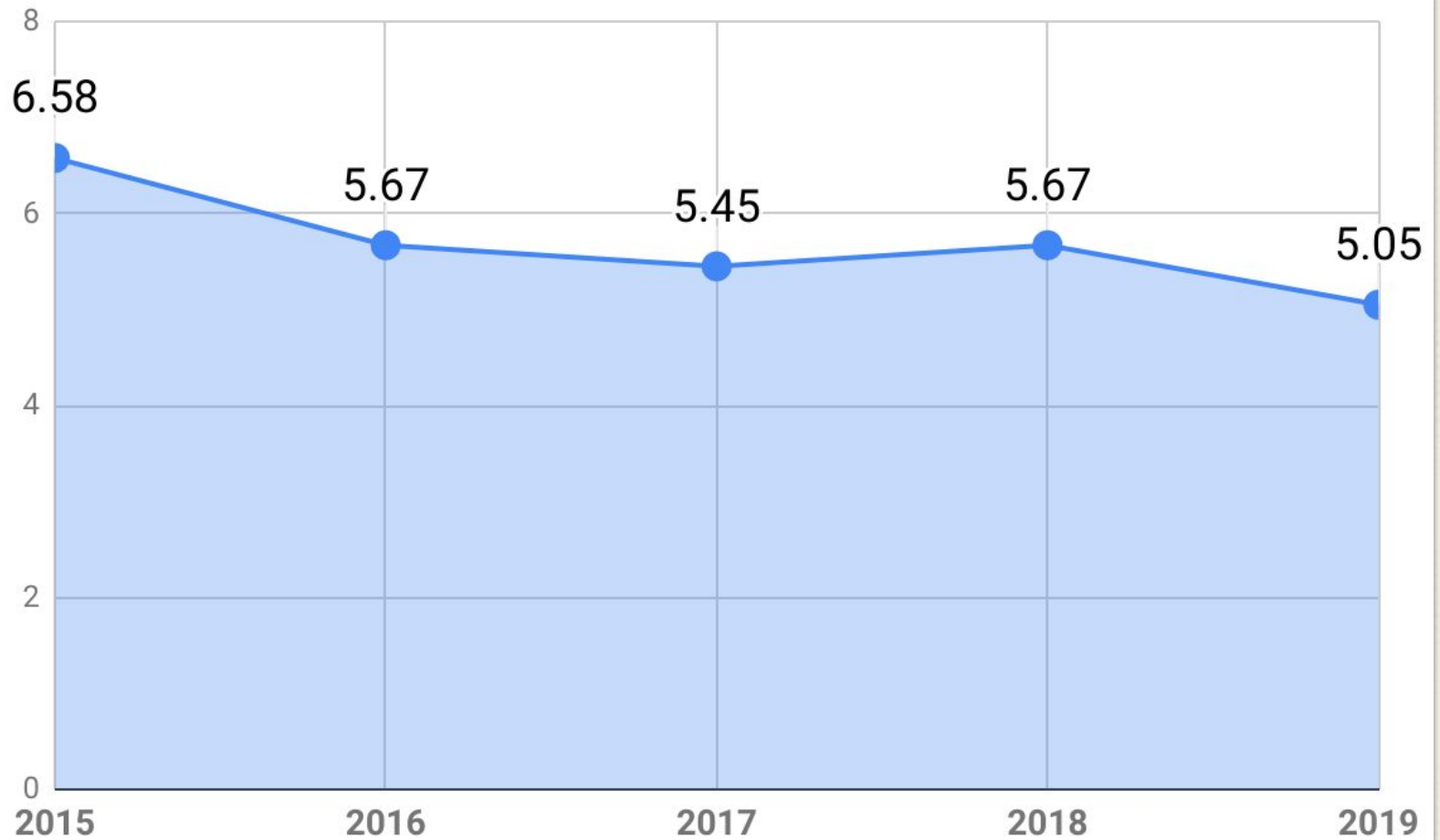
USAGE: SESSIONS PER DAY



USAGE: ITEM VIEWS

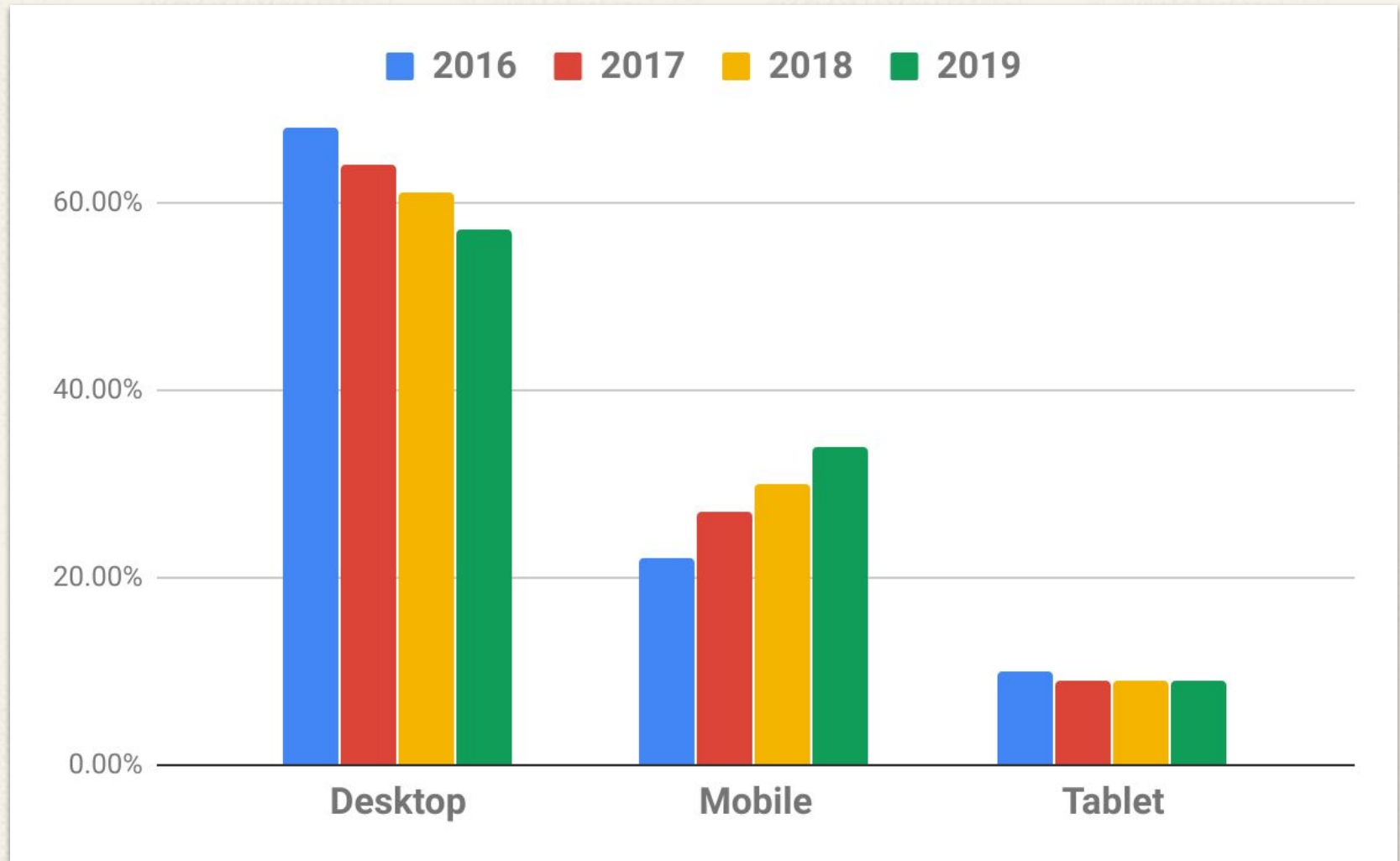


USAGE: PAGES PER SESSION



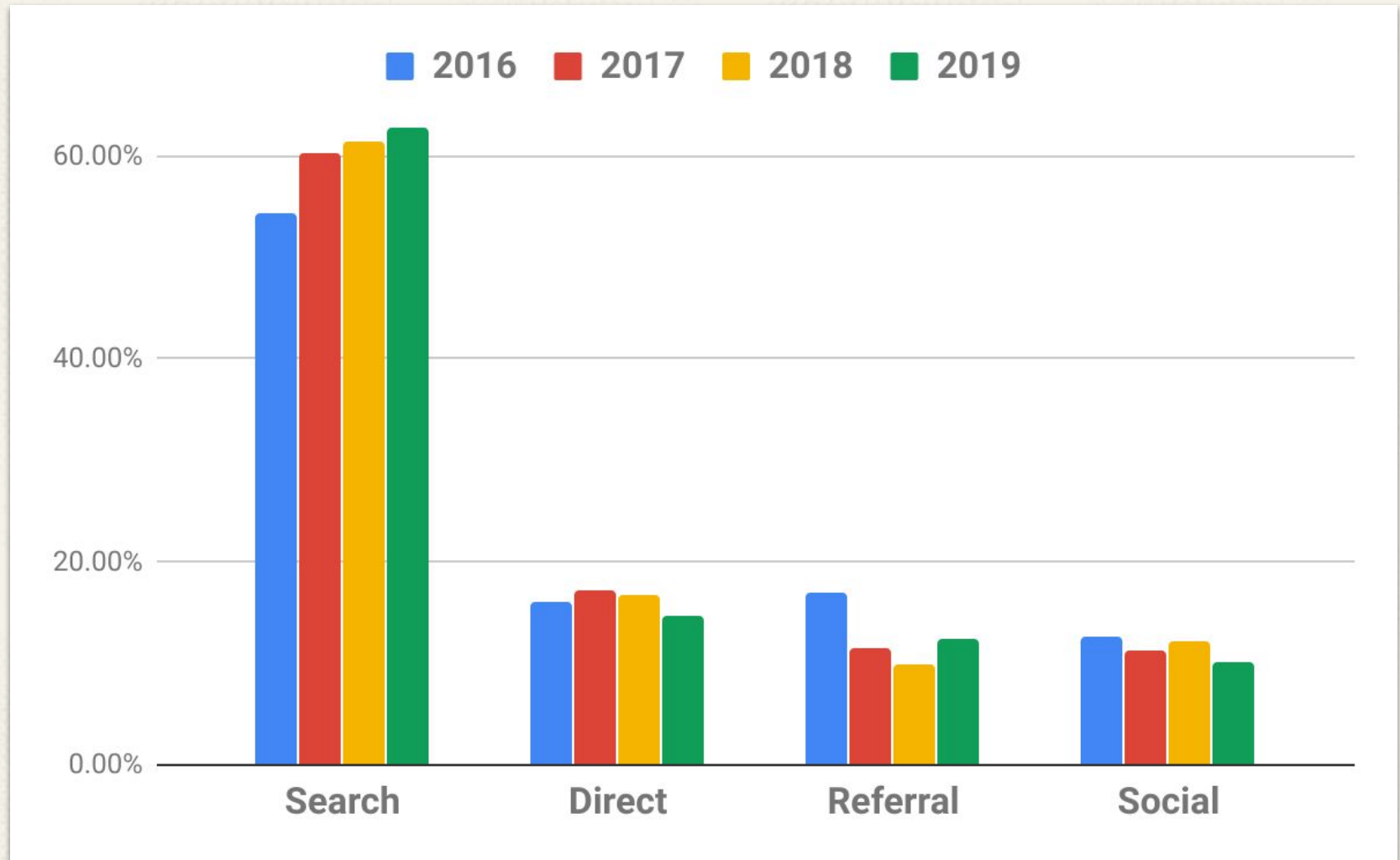
USAGE: DEVICES

Last 4 Years



USAGE: TRAFFIC SOURCES

Last 4 Years



USAGE: TOP REFERRING SITES

bpl.org	16,287
dp.la	9,039
gizmodo.com	6,220
pijamasurf.com	3,961
kottke.org	4,012
microsiervos.com	2,750
nlab.itmedia.co.jp	2,248
openculture.com	2,088
laboiteverte.fr	1,351
pikabu.ru	1,103

USAGE: OTHER REFERRING SITES

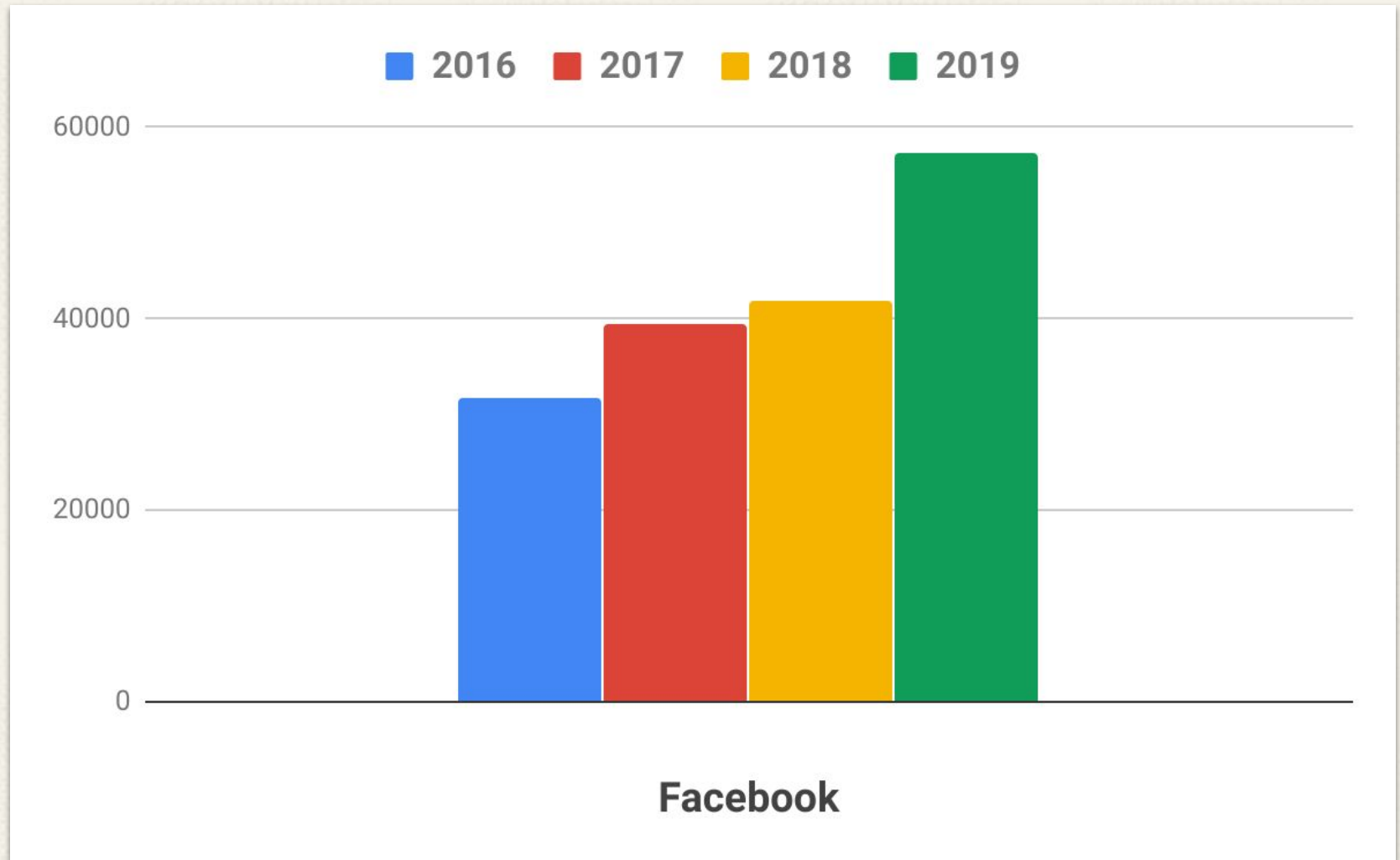
sec.state.ma.us	912
guides.newtonfreelibrary.net	663
thomascranelibrary.org	716
lawrencehistorycenter.org	517
medfordhistorical.org	467

USAGE: SOCIAL

facebook	57,310
meneame	5,318
twitter	5,149
pinterest	4,101
reddit	2,615
youtube	1,546
blogger	611
tumblr	351

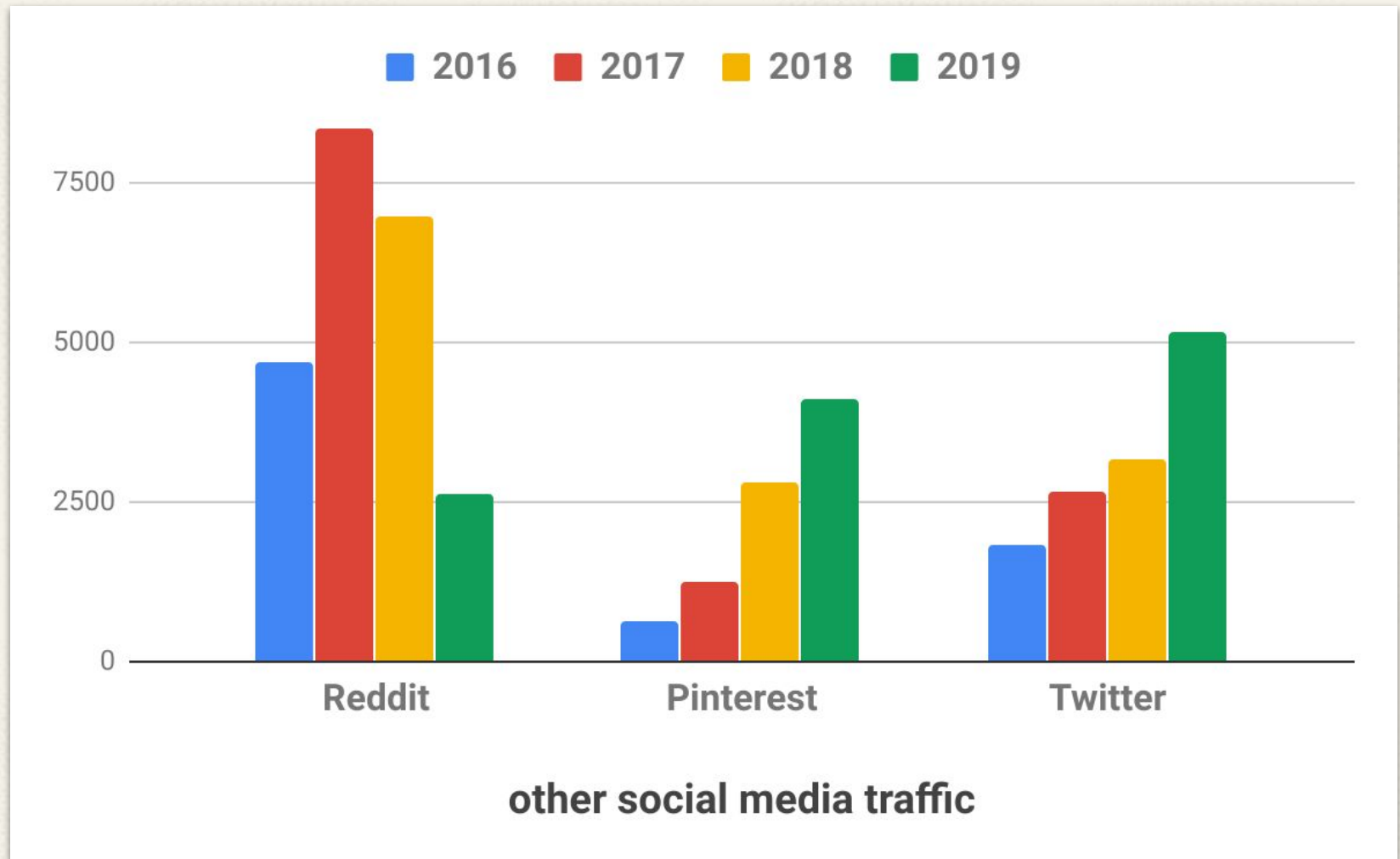
USAGE: SOCIAL

Last 4 Years



USAGE: SOCIAL

Last 4 Years



USAGE: SITE SEARCH

- 151,564 total searches
- ~20% of sessions

USAGE: FACET CLICKS

Subject	37,874
Place	27,852
Format	11,414
Date	9,047
Collection	5,454
Institution	4,311

MOST-VIEWED

April 2018 - March 2019

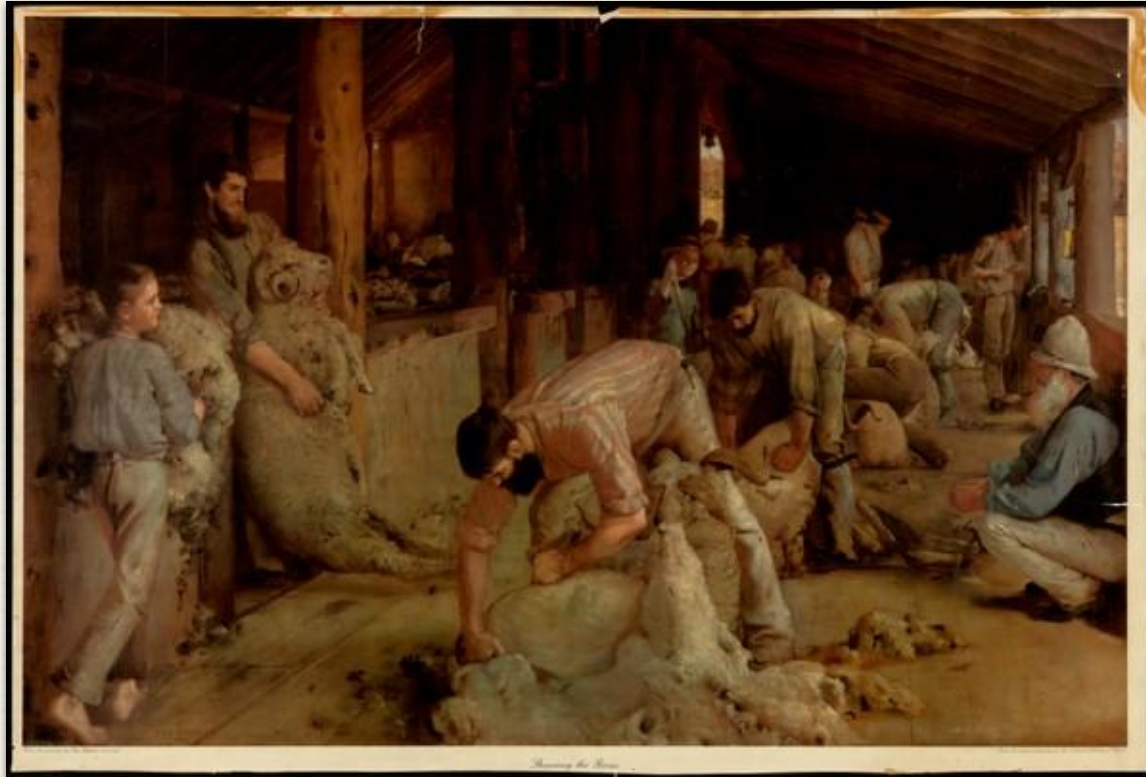
TOP 10 COLLECTIONS

AS MEASURED BY:

- Average view count per item
- (Minimum 75 items)

TOP 10 COLLECTIONS

#10 (24 views per item)



American Textile History Museum Image Collection

American Textile History Museum

<https://www.digitalcommonwealth.org/collections/commonwealth:4j03db57x>

TOP 10 COLLECTIONS

#9 (26 views per item)



Medieval and Early Renaissance Manuscripts

Boston Public Library

<https://www.digitalcommonwealth.org/collections/commonwealth:np193j758>

TOP 10 COLLECTIONS

#8 (27 views per item)



Books from the Boston Public Library

Boston Public Library

<https://www.digitalcommonwealth.org/collections/commonwealth:xd07hd55c>

TOP 10 COLLECTIONS

#7 (29 views per item)



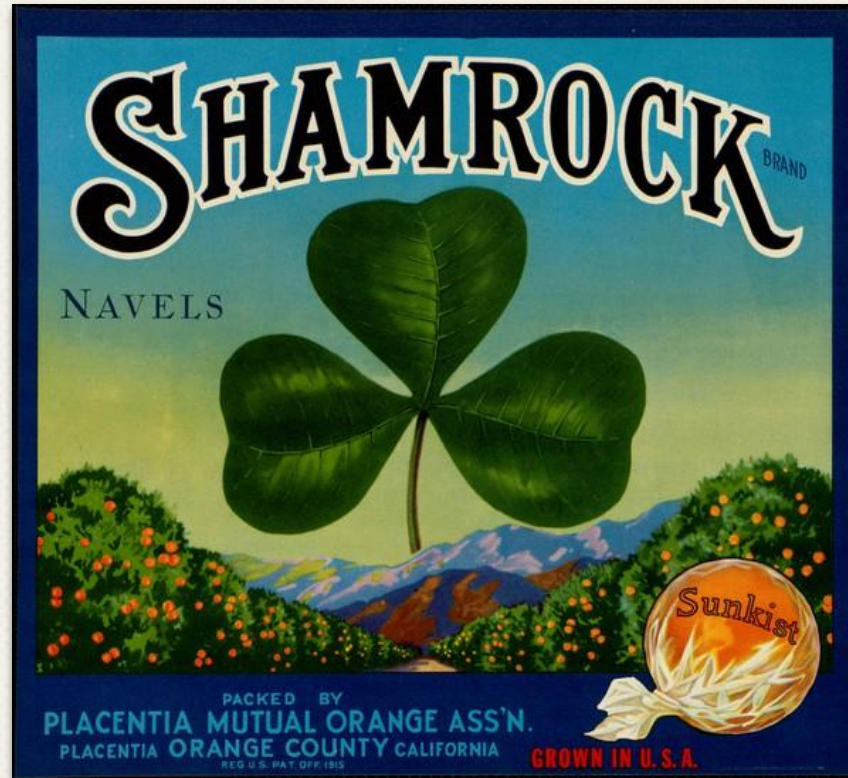
Brockton: The Early Years as a City in Photographs, 1881-1950

Brockton Public Library

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

TOP 10 COLLECTIONS

#6 (30 views per item)



Produce Crate Labels

Boston Public Library

<https://www.digitalcommonwealth.org/collections/commonwealth:b2774332r>

TOP 10 COLLECTIONS

#5 (41 views per item)

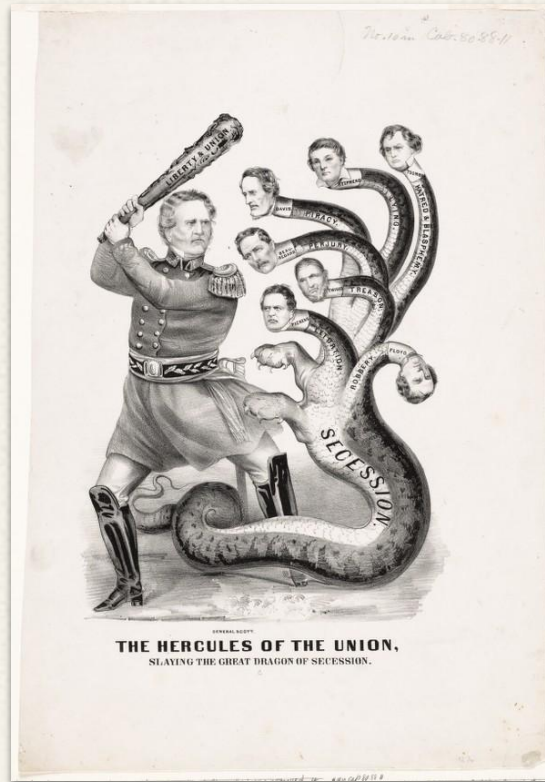


War Posters

Boston Public Library

<https://www.digitalcommonwealth.org/collections/commonwealth:ft848t24d>

#4 (43 views per item)



Social and Political Cartoons

Boston Public Library

<https://www.digitalcommonwealth.org/collections/commonwealth:9880w763w>

TOP 10 COLLECTIONS

#3 (44 views per item)



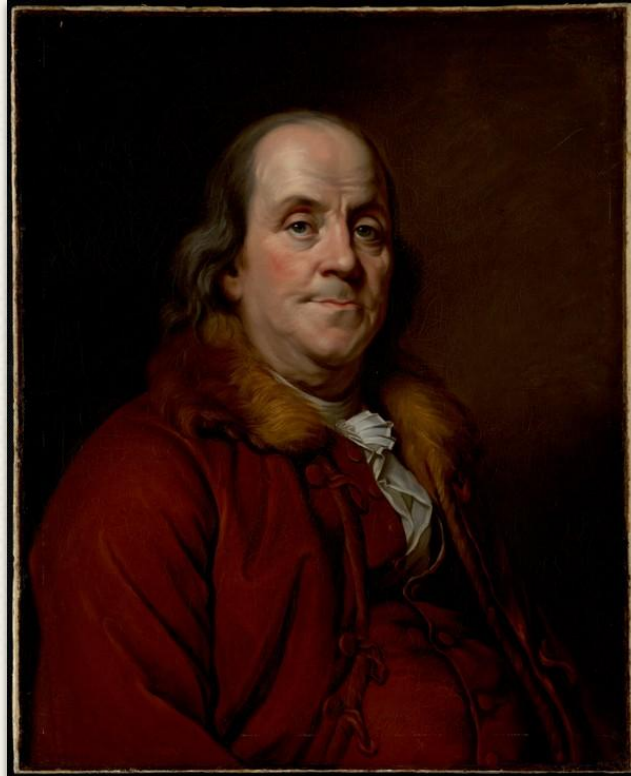
Photographic Collection of the Jacob Edwards Library

Jacob Edwards Library

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

TOP 10 COLLECTIONS

#2 (132 views per item)



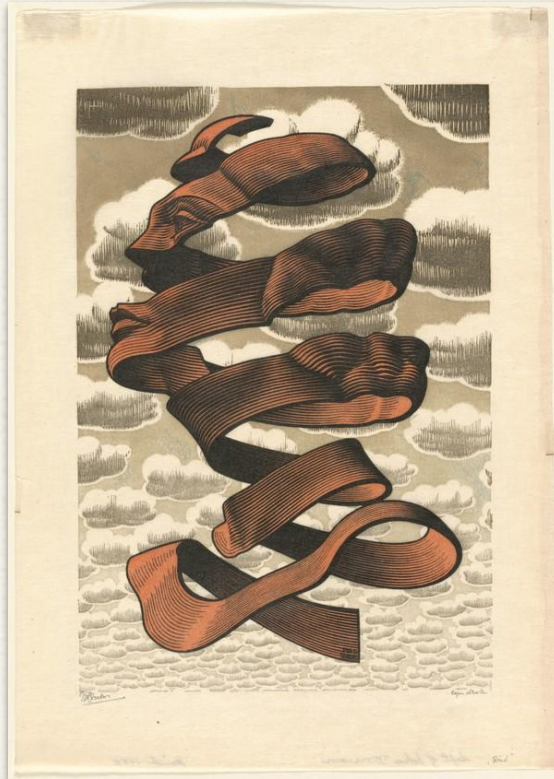
Paintings and Fine Arts Collection at the Boston Public Library

Boston Public Library

<https://www.digitalcommonwealth.org/collections/commonwealth:kh04nb528>

TOP 10 COLLECTIONS

#1 (1,700 views per item)



M. C. Escher (1898-1972). Prints and Drawings

Boston Public Library

<https://www.digitalcommonwealth.org/collections/commonwealth:3r076r52x>

TOP 20* ITEMS

***NO:**

- Flat-earth maps
- Nudity
- M.C. Escher

TOP 20* ITEMS

#20 (504 views)



An eating place of international fame. The Brass Rail, 7th Avenue

Boston Public Library; Tichnor Brothers Postcard Collection

<https://ark.digitalcommonwealth.org/ark:/50959/kp78gm27b>

TOP 20* ITEMS

#19 (513 views)



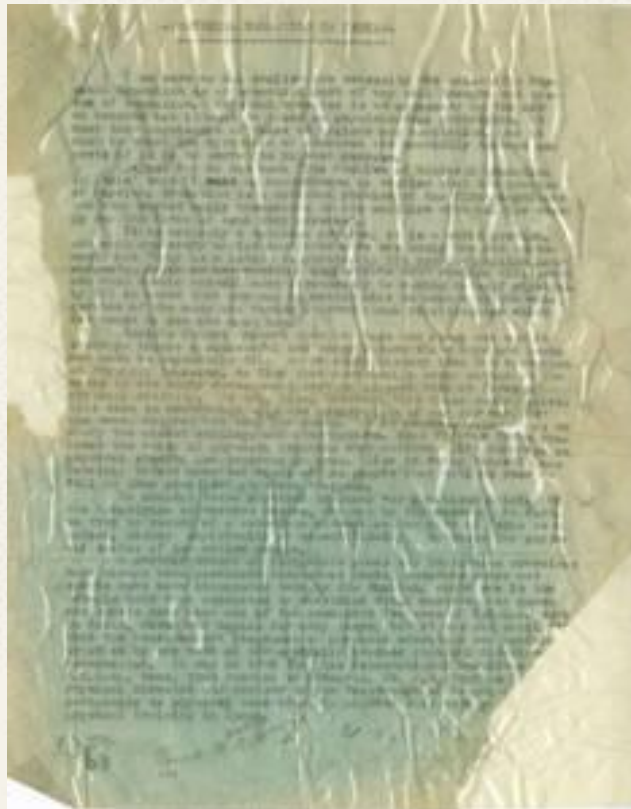
Greetings from Boston, Massachusetts

Boston Public Library; Tichnor Brothers Postcard Collection

<https://ark.digitalcommonwealth.org/ark:/50959/wh246s552>

TOP 20* ITEMS

#18 (530 views)



Harry Buck's "Physical Education in India" (c. 1921-1922)

Springfield College Archives and Special Collections; College Archives Digital Collections

<http://cdm16122.contentdm.oclc.org/cdm/ref/collection/p15370coll2/id/5541>

TOP 20* ITEMS

#17 (537 views)



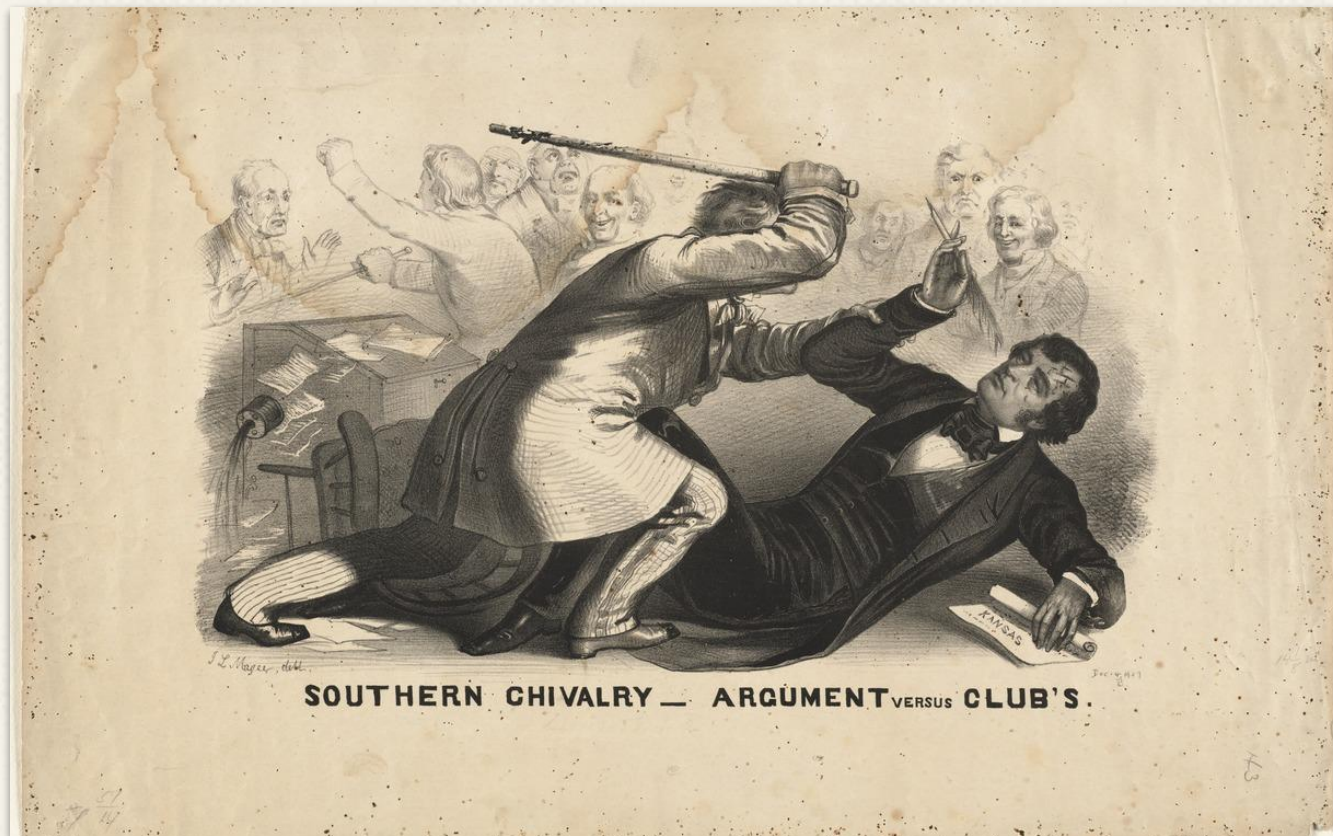
Section of tank after Molasses Disaster explosion. 1:00pm

Boston Public Library; Leslie Jones Collection

<https://ark.digitalcommonwealth.org/ark:/50959/2j62s5690>

TOP 20* ITEMS

#16 (562 views)



Southern chivalry - argument versus club's

Boston Public Library; Social and Political Cartoons

<https://ark.digitalcommonwealth.org/ark:/50959/9880wb139>

TOP 20* ITEMS

#15 (572 views)



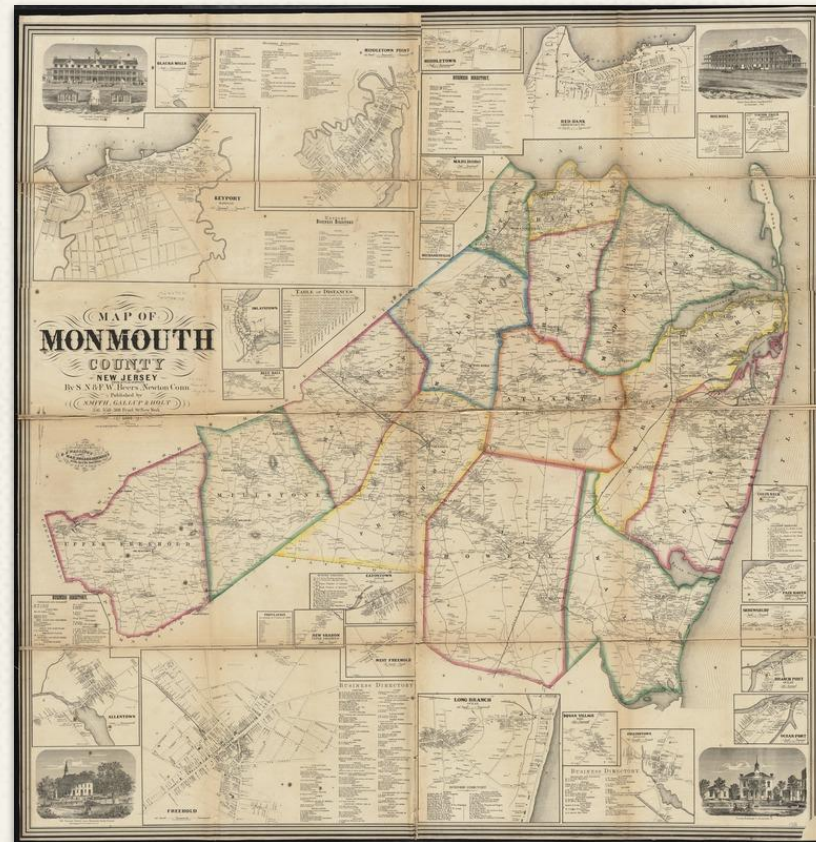
Fire House no. 31 damaged, Molasses Disaster. 1:00pm

Boston Public Library; Leslie Jones Collection

<https://ark.digitalcommonwealth.org/ark:/50959/2j62s559r>

TOP 20* ITEMS

#14 (580 views)



Map of Monmouth County, New Jersey

Boston Public Library; Norman B. Leventhal Map Center Collection

<https://ark.digitalcommonwealth.org/ark:/50959/4m90f463n>

TOP 20* ITEMS

#13 (580 views)



The Little Church of the Flowers, Forest Lawn Memorial Park

Boston Public Library; Tichnor Brothers Postcard Collection

<https://ark.digitalcommonwealth.org/ark:/50959/2n49tf545>

TOP 20* ITEMS

#12 (600 views)



Broadway west side at Cross St. (2 copies)

Lawrence Public Library; Lawrence Public Library Collection

<https://ark.digitalcommonwealth.org/ark:/50959/sf268d48r>

TOP 20* ITEMS

#11 (612 views)



Firemen standing in thick molasses after the disaster

Boston Public Library; Leslie Jones Collection

<https://ark.digitalcommonwealth.org/ark:/50959/2j62s5533>

TOP 20* ITEMS

#10 (622 views)



Our national bird as it appeared when handed to James Buchanan

Boston Public Library; Social and Political Cartoons

<https://ark.digitalcommonwealth.org/ark:/50959/9880w8854>

TOP 20* ITEMS

#9 (678 views)

K. K. K.

If you are interested in becoming a member of the Knights of the Ku Klux Klan, or if you desire more information about it, fill out this slip and mail to

P. O. BOX 374, PENNS GROVE, N. J.

The requirements for membership are that you be White, Native-born, Protestant Gentile American who believes in the United States of America above any other Government, civil, political or ecclesiastical; who will support the principles of Free Public Schools, Free Speech, Free Press, Separation of Church and State, Liberty, White Supremacy, Just Laws, the Pursuit of Happiness and the Sanctity of the Home.

Name _____

Residence _____

Occupation _____ Age _____

Address to which You Want Mail Sent _____

In Which County do You Live? _____

To What Church Do You Belong? _____

To What Fraternal Order Do You Belong _____

☐ I am interested in becoming a member.

☐ I desire further information regarding the K. K. K.

NOTE: Your communication will be regarded as confidential.

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>

TOP 20* ITEMS

#8 (682 views)



The population map

Boston Public Library; Norman B. Leventhal Map Center Collection

<https://ark.digitalcommonwealth.org/ark:/50959/x633f9404>

TOP 20* ITEMS

#7 (707 views)



Wreckage under the elevated . . . Molasses Disaster

Boston Public Library; Leslie Jones Collection

<https://ark.digitalcommonwealth.org/ark:/50959/2j62s567f>

TOP 20* ITEMS

#6 (842 views)



Linda Ronstadt at Paul's Mall

University of Massachusetts Amherst Libraries; Jeff Albertson Photograph Collection

<http://credo.library.umass.edu/view/full/muph057-b004-sl501-i028>

TOP 20* ITEMS

#5 (935 views)



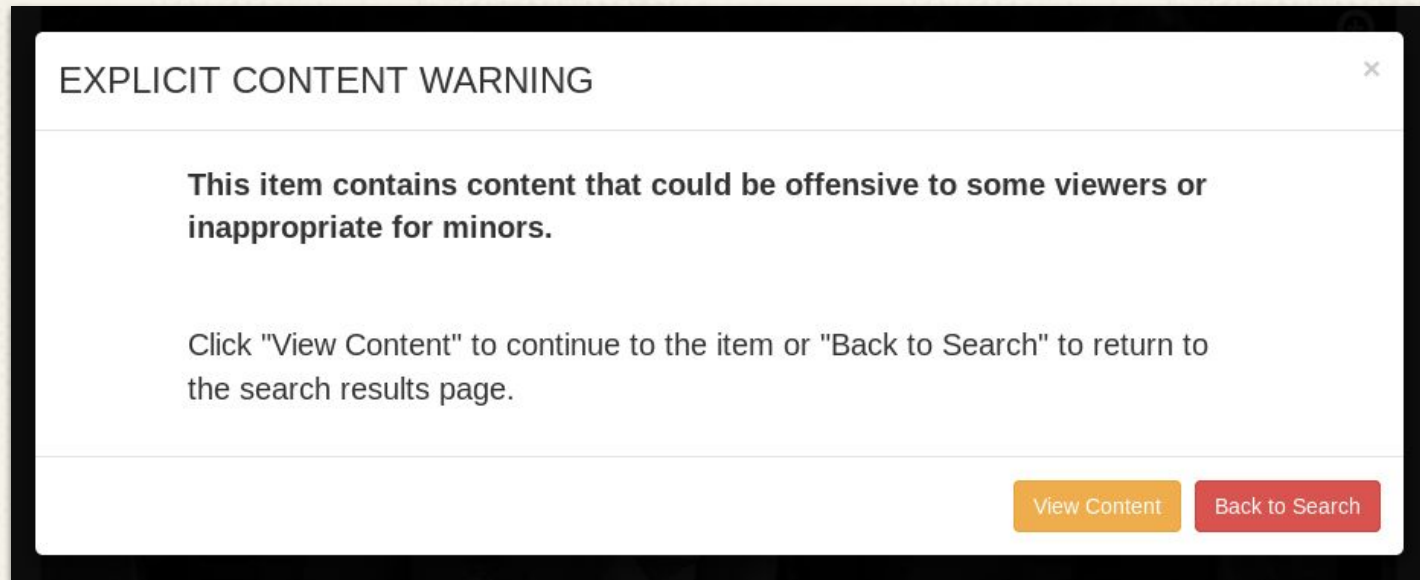
Boston elevated twisted into new shapes, after Molasses Disaster

Boston Public Library; Leslie Jones Collection

<https://ark.digitalcommonwealth.org/ark:/50959/2j62s565w>

TOP 20* ITEMS

#4 (1,018 views)



Lynching in California

Boston Public Library; Leslie Jones Collection

<https://ark.digitalcommonwealth.org/ark:/50959/sj139r34b>

TOP 20* ITEMS

#3 (1,736 views)



Lawrence St. east side looking north from Bunker Hill St.

Lawrence Public Library; Lawrence Public Library Collection

<https://ark.digitalcommonwealth.org/ark:/50959/sf268s12n>

TOP 20* ITEMS

#2 (1,836 views)



Civil war vets inspect huge German captured gun on Boston Common

Boston Public Library; Leslie Jones Collection

<https://ark.digitalcommonwealth.org/ark:/50959/5h73rn68q>

MOST VIEWED

- The “why” of usage is unclear
- Traditional library values:
 - Respect patron agency
 - Don't editorialize
 - Be a window, not a lens
- Do these still apply?

RESPONSIBILITY

- Are we providing users with enough context?
- Are we reproducing inequality?
- What content are we flagging?

THANKS!

Any questions?

eenglish@bpl.org
@eenglish