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240,000 Items Validated in 10 Weeks at 40 Libraries: Google App Script to the Rescue!

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Eastern Academic Scholars' Trust (EAST)

Shared Print Initiative
Validation Study
Using Google App Script



BLC

BOSTON LIBRARY CONSORTIUM



EAST

EASTERN ACADEMIC
SCHOLARS' TRUST

The Eastern Academic Scholars' Trust



The EAST Collective Collection

title holdings

16,573,071

title sets

4,749,042

title sets held by one library in the group

50%

2,359,033 title sets

title sets with > 10 aggregate uses

20%

939,819 title sets

title sets represented in HathiTrust

39%

1,865,115 title sets

The EAST Retention Model

- Retain all holdings of scarcely held titles
- Retain up to 5 holdings of frequently used titles
- Retain one holding of every print title
Pre 2011, non gov doc, not tech/textbook

6.1 Million / ~30%

EAST 6.1 Million?

The goal: During Feb - April 2016 - 40 libraries validated 6000 titles

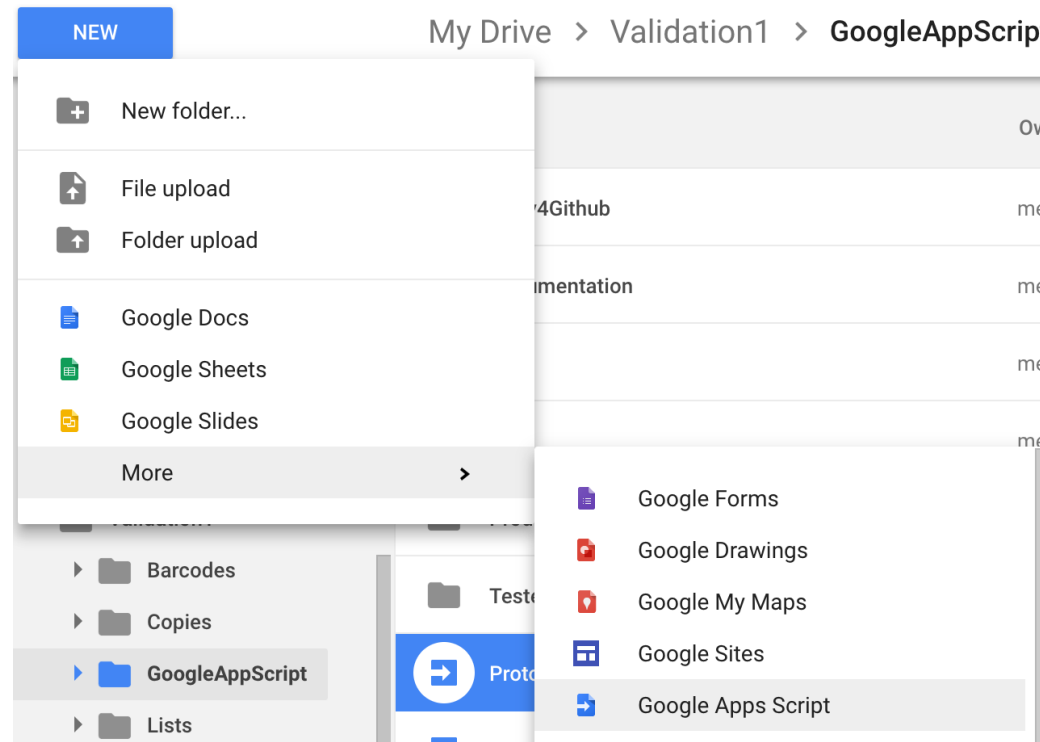
The data: OCLC/SCS generated lists - every nth title from random start

Now what?????

Google App Script to the Rescue!

Google Sheets for easy distribution, but wanted more control and ease for libraries, and consistency in data collection.

Google App Script!





Prototype

File Edit View Run Publish Resources Help



- JavaScript.html
- Stylesheet.html
- bos.html
- home.html
- missing.html
- StatScript.html
- Code.gs
- MissingScript....
- fix.html
- FixScript.html

Code.gs x

```
1 // get script properties for library name and sheet
2 |
3 var scriptProperties = PropertiesService.getScriptProperties();
4 var libraryName = scriptProperties.getProperty('libraryName');
5 var sheetID = scriptProperties.getProperty('spreadsheetID') ;
6 var catalogHttps = scriptProperties.getProperty('catalogHttps') ;
7
8 var sheet = SpreadsheetApp.openById(sheetID).getSheets()[0] ;
9 var stats = SpreadsheetApp.openById(sheetID).getSheets()[1] ;
10 var locs = SpreadsheetApp.openById(sheetID).getSheets()[2] ;
11
12
13 function doGet(e) {
14
15 //Logger.log( Utilities.jsonStringify(e) );
16 if (!e.parameter.page) { // When no specific page requested, return
17 return HtmlService
18 .createTemplateFromFile('home')
```



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Libraries

Title	Version	Identifier	Development mode	Remove
ProductionLibraries	6	ProductionLibrary	<input checked="" type="checkbox"/> on	×

Project properties

Info	Scopes	User properties	Script properties
Property	Value		
libraryName	Sample College Library		Delete
catalogHttps	true		Delete
spreadsheetID	17arO0Hht75voLu3UxQBIAv7tio0JLC8VjlOfi7gVXvA		Delete

[+ Add row](#)

```
<html>
  <head>
    <base target="_top">
    <link rel="stylesheet" href="//code.jquery.com/ui/1.11.4/themes/smoothness/jquery-ui.css">

    <?!= HtmlService.createHtmlOutputFromFile('Stylesheet').getContent(); ?>
    <?var url = getScriptUrl();?>
    <?var libraryName = scriptProperties.getProperty('libraryName'); ?>
  </head>

  <body>
    <div id="banner">
      <h1>EAST Validation Study: Book on Shelf : <?= libraryName ?></h1>
    </div>
```



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CHECK SHELVES

Check the shelves to verify the presence of an item.

0 Items In Process [\(Clear\)](#)

[Fix Status Entry Error](#)

CATALOG CHECK

Confirm Status of 9 items not found on shelf

7 In Process [\(Clear\)](#)

CURRENT STATS

6000 volumes are on your list, 186 of which have been checked.

Accounted for: 169

At the current rate you will find **90.9%** on shelf.

(*ba: 92.3% baf: 100% bc: 50.0% bcf: 100% bs: 87.0% bsx: 100% : NaN% : NaN% : NaN%*)

97.6% of the accounted for items are physically present on the shelf.

Items remaining to be checked, by location:

ba	638
baf	291

Validation Sample Study #1

CHECK SHELVES

Check the shelves to verify the presence of an item.

12 Items In Process (Clear)

[Fix Data Entry Error](#)

Enter Your Initials:

Location:

How many?

AC75 .A7 2	[Articles] por German Arciniegas.	bcb
<input type="text" value="31796004562050"/>	Present <input type="radio"/> Not On Shelf <input type="radio"/>	Condition: (?) <input checked="" type="checkbox"/> Select Excellent Acceptable/Good Poor
AC75 .R67	[Articles] / por Joaquin Roy.	Condition: (?) <input type="text" value="Select"/>
<input type="text" value="31796101408595"/>	Present <input type="radio"/> Not On Shelf <input type="radio"/>	

<https://github.com/samato88/EastValidationTool>



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EAST Validation Dashboard

EAST Validation Sample Study 1 Dashboard

Anonymization

Animal	# Checked	% Accounted For	% Average Condition	% Average in Circulation
alligator	6000	97.1%	2.4%	3.4%
armadillo	6000	94.8%	2.1%	2.4%
axolotl	6000	98.4%	2.1%	3.2%
bat	6000	94.3%	2.4%	0.9%
lemur	6000	91.6%	2.1%	5.3%
wolf	6000	91.0%	2.1%	0.4%

# Checked	% Accounted For	Average Condition	% Poor	% Validated by Barcode	% In Circ
240,000 (100%)	97.0%	2.2 1=poor,2=average 3=excellent	10.0	87.1	2.3



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Couple of "Gotcha's"

Tool was designed to be able to be used offline, BUT issues arose when wi-fi was intermittent

HTML5 Offline Storage to cache work being done rather than rely on webpage remaining up

Result of VSS#1

- 97% of monographs accounted for
- 90% in average or excellent condition, 10% poor
- Further data analysis in process

Items publisher pre-1900 are in poorer condition

Widely circulated items are slightly more likely to be unaccounted for

Largest vulnerability where single copy held at low availability library
(no security system for many years, mangled inventory process)



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Insights from statistician – 70,000 at risk titles

1 copy nothing we can do, retaining 2 of everything bumps up commitment to 45%, not acceptable to partners

“ Among monographs with greater than 7.5% likelihood of being missing or greater than 50% chance of being in poor condition, ~70,000 have surplus copies in EAST.”

Currently asking partners if they will consider extra retentions. If not, titles will be allocated in cohort 2 whenever possible.



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in support of teaching, learning
and research ... [ABOUT US >](#)

EASTLIBRARIES.ORG

Collection Analysis >

Participating member libraries undergo a thorough collection analysis to determine mauris porttitor purus non erat elementum laoreet. [Learn more](#)

Validation >

Member libraries validate the findings of the collection analysis by praesent et justo in nisi vehicula lacinia a nec metus. [Learn more](#)

Retention & Access >

Members agree to retain selected print titles for 15 years, and guarantee access by tiam hendrerit tellus nunc, eu sodales lectus tempor vel scelerisque malesuada eros. [Learn more](#)

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