SPLURGE

Scholars Portal Library Usage-Based Recommendation Generation Engine

http://splurge.scholarsportal.info/static/index.html http://github.com/splurge/splurge

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http://hdl.handle.net/10315/18178



The overview

Recommendation services

SPLURGE demonstration

Scholars Portal Technical Advisory Group

How recommendations are generated

The components: database, API, widget and policies

How we got here

The code

What happens next

The impetus

- Netflix
- Plumperfect.com
- Amazon
- Library Thing: BookPsychic
- BiblioCommons
- University of Huddersfield (JISC: MOSAIC)

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AC/DC ACDC Dirty Deeds Done Dirt Cheap Vintag... C \$31.31 Clear all

Recommendations for you



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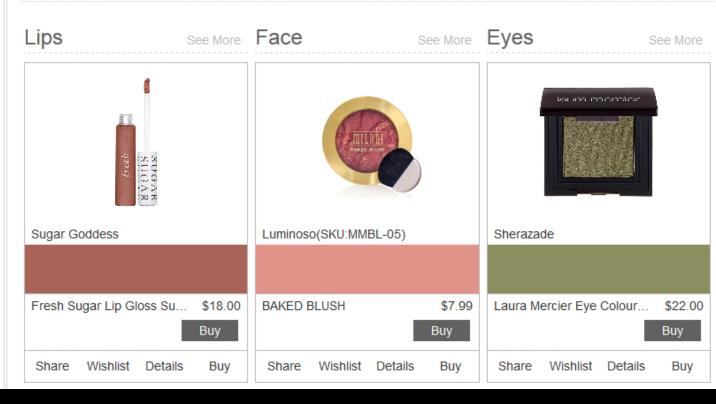
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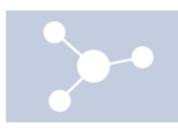
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Recommender system



Redirected from Recommendation engine · Interest

Description

From Wikipedia, the free encyclopedia

Recommender systems or **recommendation systems** are a subclass of information filtering system that seek to predict the 'rating' or 'preference' that a user would give to an item (such as music, books, or movies) or social element (e.g. people or groups) they had not yet considered, using a model built from the characteristics of an item (content-based approaches) or the user's social environment (collaborative filtering approaches).

Recommender systems have become extremely common in recent years. A few examples of such systems:

When viewing a product on Amazon.com, the store will recommend additional items based on a matrix of what other shoppers bought along with the currently selected item.

Pandora Radio takes an initial input of a song or musician and plays music with similar characteristics (based on a series of keywords attributed to the inputted artist or piece of music). The stations created by Pandora can be refined through user feedback (emphasizing or deemphasizing certain characteristics).

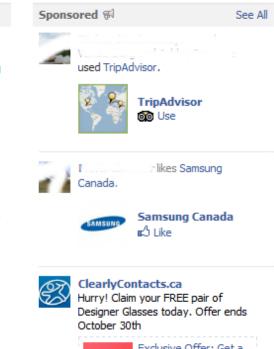
Netflix offers predictions of movies that a user might like to watch based on the user's previous ratings and watching habits (as compared to the behavior of other users), also taking into account the characteristics (such as the genre) of the film.

Overview

Recommender systems typically produce a list of recommendations in one of two ways - through collaborative or content-based filtering. Collaborative filtering approaches to build a model from a user's past behavior (items previously purchased or selected and/or numerical ratings given to those items) as well as similar decisions made by other users, then use that model to predict items (or ratings for items) that the user may have an interest in. Content-based filtering approaches utilize a series of discrete characteristics of an item in order to recommend additional items with similar properties. These approaches are often combined (see Hybrid Recommender Systems).

Source

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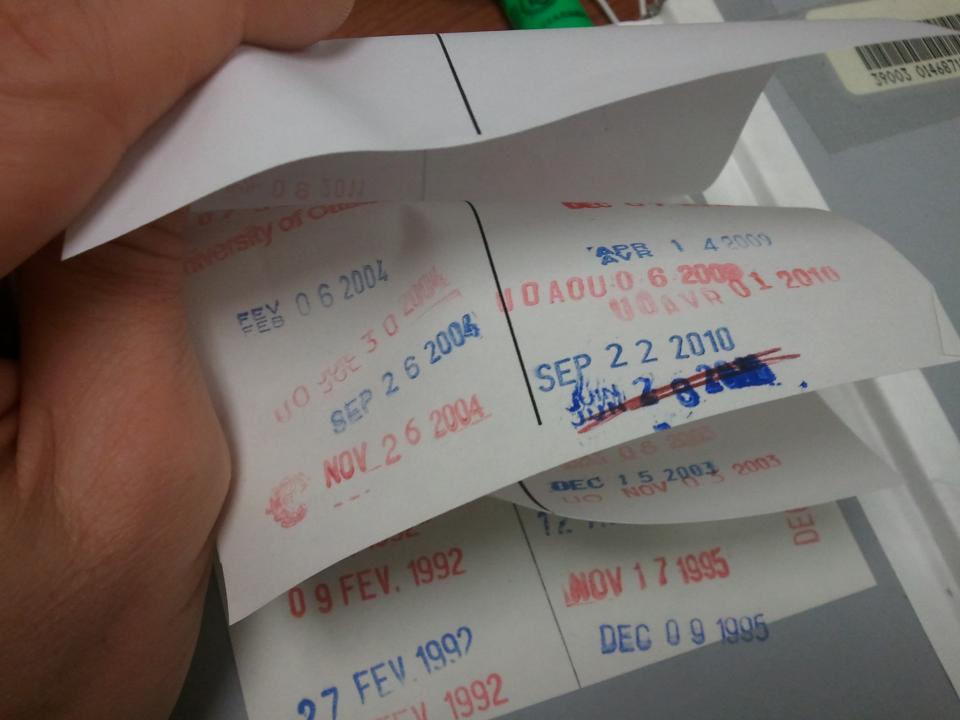
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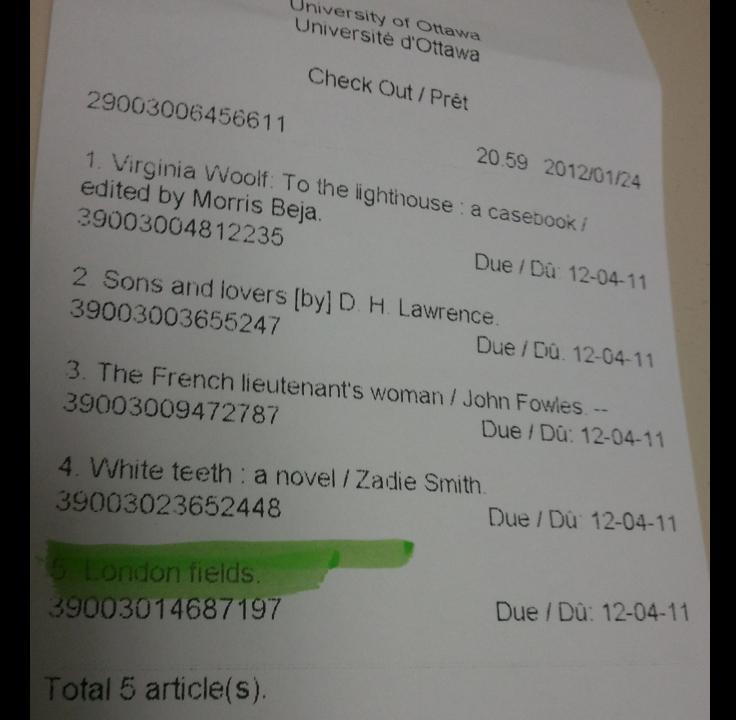


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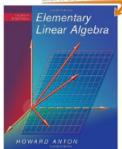
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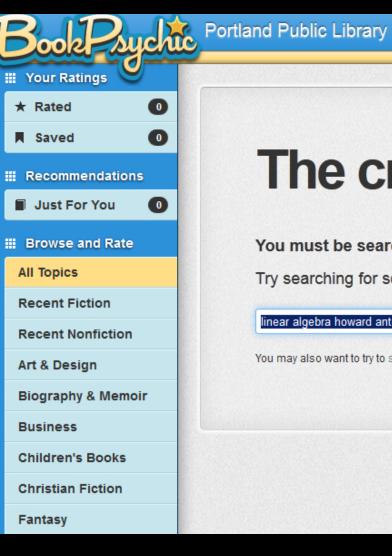
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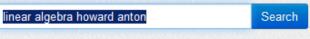
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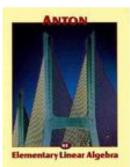
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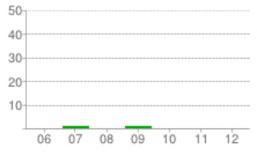
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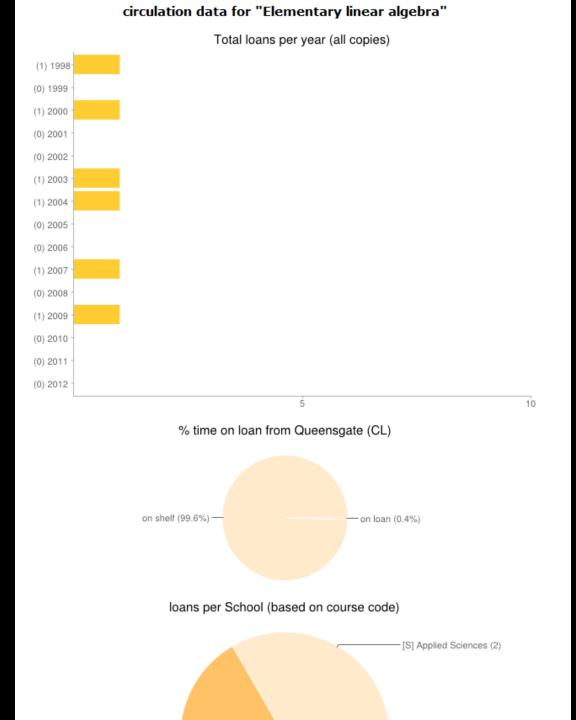
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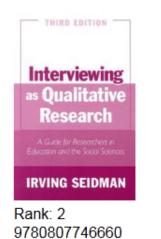
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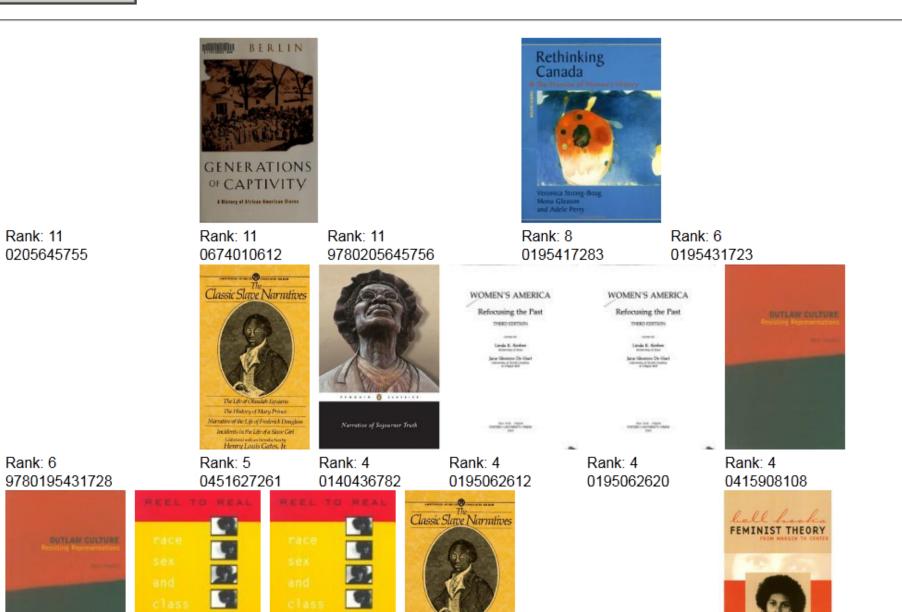


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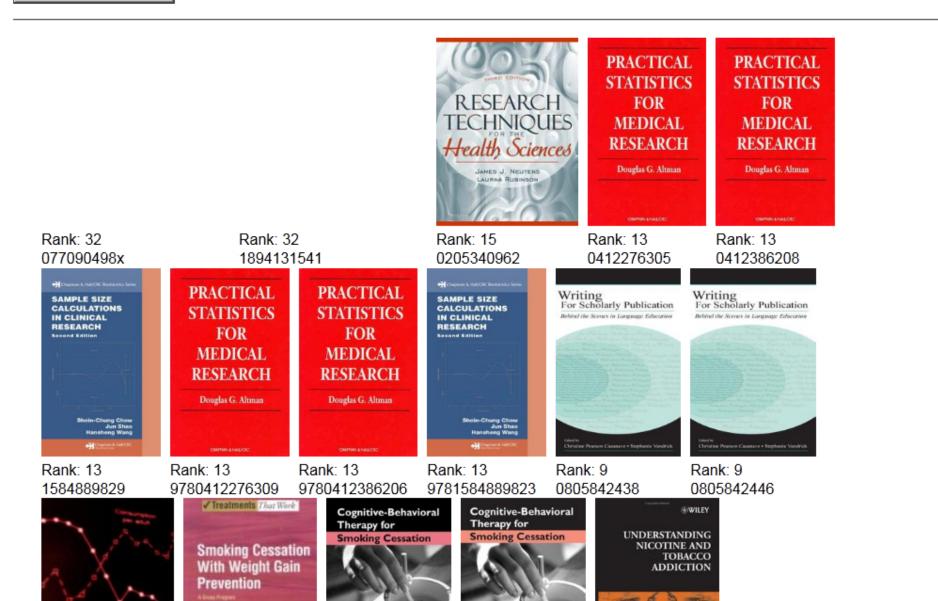
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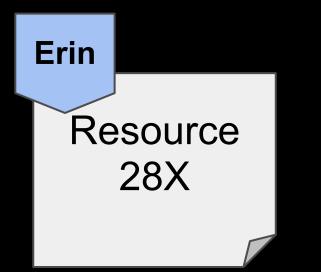
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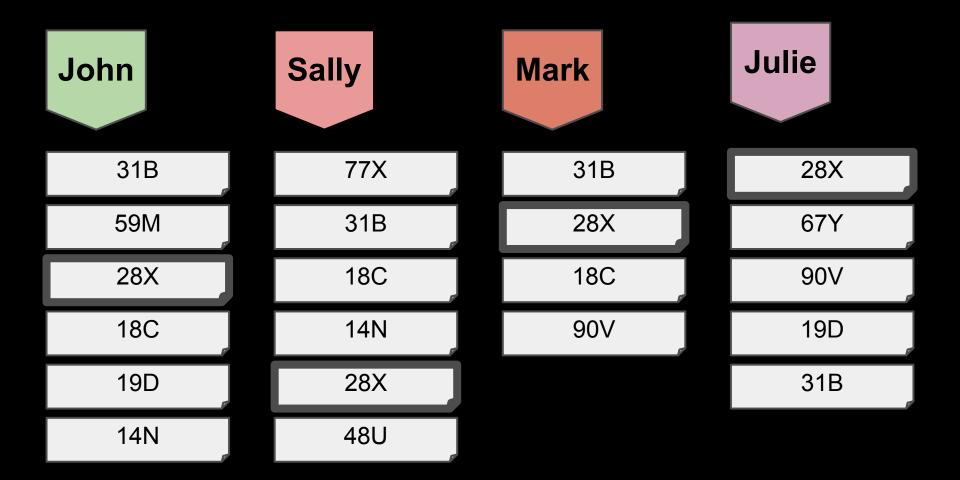
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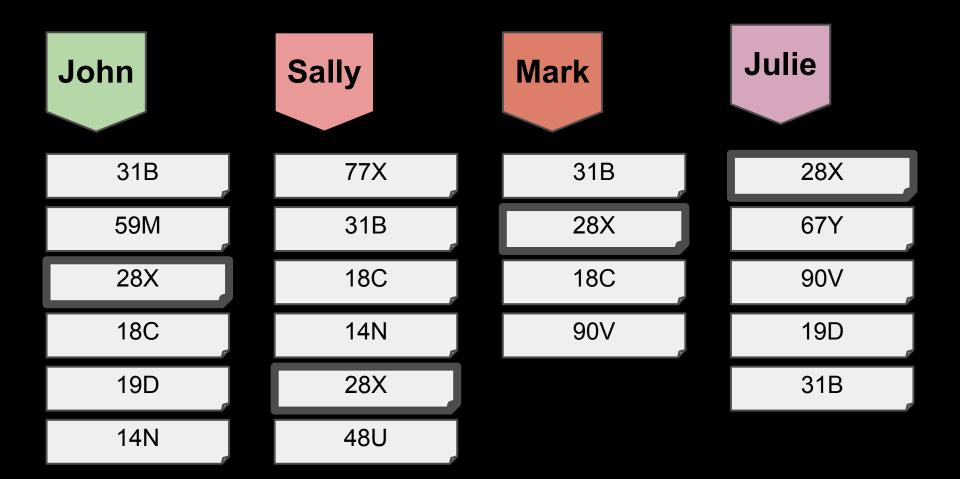
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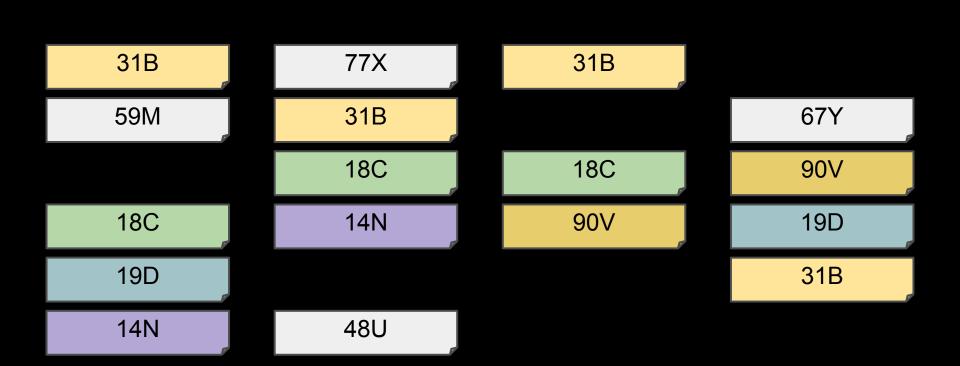
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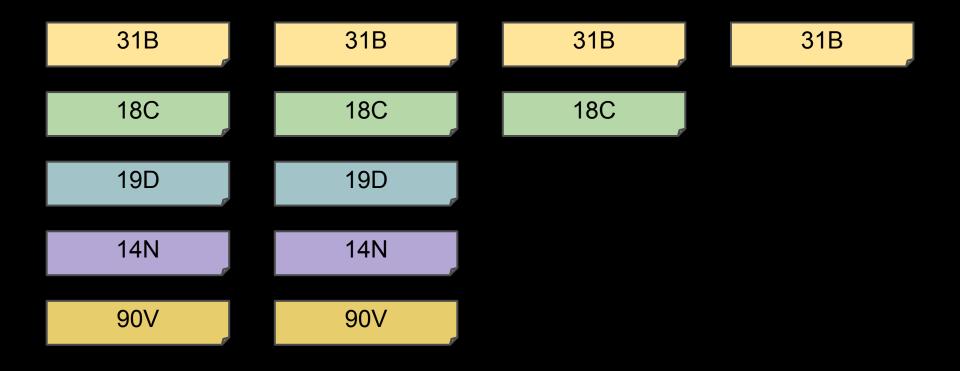
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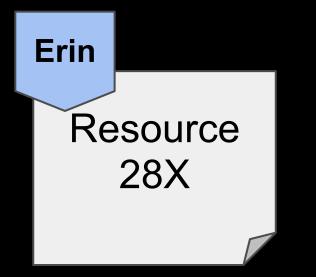
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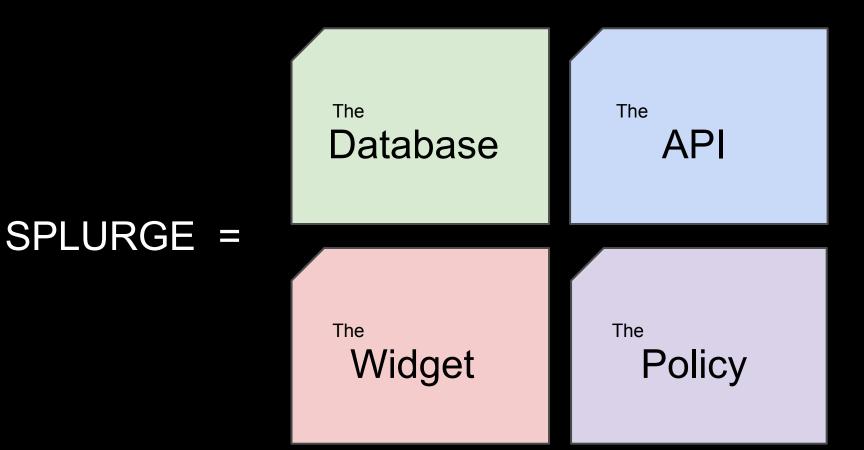


Research complete



We Recommend:





Database

 PostgreSQL • Tables: ○ `item` `transaction` `institution` o caches

The API

 Python Flask Powered Webservice Client provides isbn, institution name, and date range.

Widget

 Javascript Queries the API 'Lives' in the catalogue Loads covers from the OpenLibrary

The first hackfest

The second hackfest

100

Photograph by David Fiander (https://secure.flickr.com/photos/bookgeek/7267895696/in/photostream)

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B

c

S

Problem: Same Work, different Manifestations

Solution: Use xISBN, thingISBN to collapse to work level.

Problem: Textbook edition mishigas.

Solution: Same?

The **Database**

Problem: ISBNS don't cover everything.

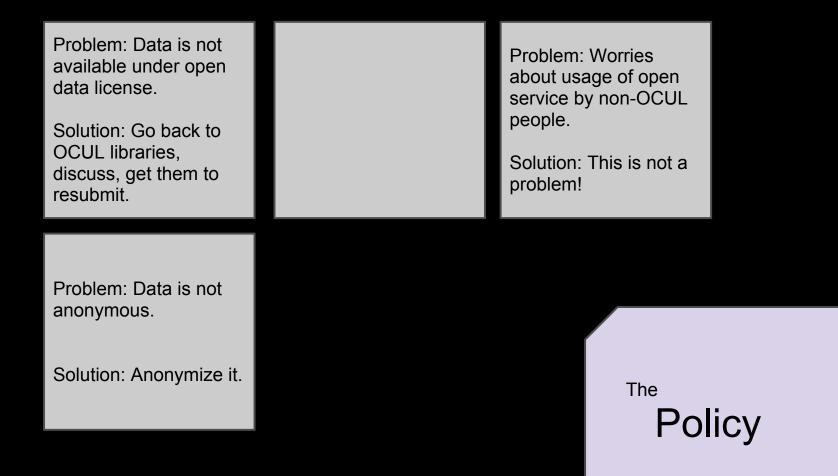
Solution: Use LC numbers and OCLCnums.

Problem: Not enough data.

Solution: Get more data.

| Problem: Titles and authors are not returned. | | |
|---|---|---|
| Solution: Collect title/author data, and show it. | | The API |
| | | |
| | | |
| | | |
| | authors are not returned. Solution: Collect title/author data, and | authors are not returned. Solution: Collect title/author data, and |

| Problem: Don't have one line of Javascript for all catalogues and OPACS. | Problem: Some books don't have covers. | Problem: Is it fully accessible and meets WCAG 2.0? |
|---|---|---|
| Solution: Make the one line. | Solution: Make generic ones that show the title/author. | Solution: Find out. If not, fix. |
| The | Vidget | Problem: No documentation. Solution: Documentify. |
| | naget | |



The code

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SPLURGE

Scholars Portal Library Usage-Based Recommendation Generation Engine

http://splurge.scholarsportal.info/static/index.html http://github.com/splurge/splurge

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http://hdl.handle.net/10315/18178



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