OpenRefine

https://librarycarpentry.org/lc-open-refine/

Today's tools and references

- Zoom interaction
 - Chat, React, and Speak!
- These slides
- OpenRefine software
- The "doaj-article-sample.csv" data file
- The "OpenRefine" lesson

What is OpenRefine?



Resolve inconsistencies

Data you have	Desired data
London	London
London]	London
London,]	London
london	London

Split data

Address in single field	Institution	Library name	Address 1	Address 2	Town/City	Region	Country	Postcode
University of Wales, Llyfrgell Thomas Parry Library, Llanbadarn Fawr, ABERYSTWYTH, Ceredigion, SY23 3AS, United Kingdom	University of Wales	Llyfrgell Thomas Parry Library	Llanbadarn Fawr		Aberystwyth	Ceredigion	United Kingdom	SY23 3AS

Pull data from other sources

Data you have	Date of Birth from VIAF (Virtual International Authority File)	Date of Death from VIAF (Virtual International Authority File)
Braddon, M. E. (Mary Elizabeth)	1835	1915
Rossetti, William Michael	1829	1919
Prest, Thomas Peckett	1810	1879

Our topics

- Importing data into OpenRefine
- Layout of OpenRefine
- Faceting and filtering
- Clustering
- Transformations
- Exporting datasets
- Advanced OpenRefine functions

Importing data into OpenRefine

Start a project.

Layout of OpenRefine

Separate records from rows.

Faceting and filtering

Group same values together to filter and edit data.

Exercise

Use a text facet for the "Licence" column to answer these questions:

- What is the most common License in the file?
- How many articles in the file don't have a license assigned?

Exercise

Create a Text facet on the "Language" column and correct the variation in the EN and English values.

Clustering

Group together similar values to identify inconsistencies.

Transformations

Use the power of GREL.

Exercise

Use Facets and GREL to put the titles in Title Case:

- 1. Facet by the "Publisher" column.
- 2. Select "Akshantala Enterprises" and "Society of Pharmaceutical Technocrats."
 - a. Tip: Select multiple values in the facet with the include link.
- 3. Click the dropdown menu on the "Title" column.
- 4. Choose: Edit cells > Transform...
- 5. In the Expression box type the function: value.toTitlecase()
- 6. Look at the Preview pane to see the effect.
- 7. Click OK

OpenRefine data types

- String
- Number
- Date
- Boolean
- Array

Exporting data

Save to one of many formats.

Advanced OpenRefine functions

https://librarycarpentry.org/lc-open-refine/13-looking-up-data/ a/index.html