Introduction to the Library
Carpentry Toolbox
Introducing Us

Carmi Cronje @machinical

Fiona Jones @FionaJ_Lib
About Macquarie University

http://www.mq.edu.au/about/about-the-university
Macquarie University Library

1 Library with 2800 Seats

http://www.mq.edu.au/about/campus-services-and-facilities/library/about-us
Annual figures for 2016

- Door entry count: 2,180,300
- Attendees at workshops and consultations: 14,623
- Face-to-face enquiries: 47,575
- Virtual enquiries - phone, email, chat: 12,846
- Total electronic usage: 19,995,649
The Research Librarian

http://www.mq.edu.au/about/campus-services-and-facilities/library/research/research-librarians
What is Library Carpentry for?

Geeks and repetitive tasks

![Diagram showing the relationship between time spent, task size, and whether a task is done manually or via script.]

What does Library Carpentry teach?

<table>
<thead>
<tr>
<th>Introduction to data</th>
<th>An introduction to the terminology of data and computing, and the use of regular expressions to search and update text.</th>
</tr>
</thead>
<tbody>
<tr>
<td>OpenRefine</td>
<td>An introduction to OpenRefine, a powerful tool for cleaning and enhancing data.</td>
</tr>
<tr>
<td>Unix Shell</td>
<td>An introduction to the Unix command line interface, which allows you to work more efficiently with directories and files, and find and manipulate data.</td>
</tr>
</tbody>
</table>

Library Carpentry at Macquarie University Library

The story so far…

- 4x pilot workshops - Introduction to data, OpenRefine, Unix Shell, Git/GitHub
- 2x information sessions - Introduction to Library Carpentry
- 1x OpenRefine workshop
Examples of how we have applied OpenRefine

| OpenRefine examples | ● Stripping HTML from messy data & normalising text  
|                    | ● Cleaning data extracted from vendor databases  
|                    | ● Splitting strings into granular parts for cross-checking  
|                    | ● Extracting/importing data in batches via web APIs |
Who is it for?

Word up #librarycarpentry cataloguers... Getting Started with Regular Expressions in Marcedit youtu.be/YYXvS4xBETw thanks @reese_terry

Getting Started with Regular Expressions in Marcedit
This is a beginners video developed to give new users to MarcEdit's regular expression syntax a primer and examples on how to use the language. It provides l...
youtube.com

We're currently learning all about @OpenRefine, and having great fun playing with it! #librarycarpentry

Who is it for?

Stefanie Morton @BooktopusSteph - 26 Jul 2016
YAY for library staff developing skills across the globe! Well done #librarycarpentry developers, leaders & helpers!

James Baker @w_baker - 26 Jul 2016
By the end of August, there will have been 10 #librarycarpentry workshops in 5 countries across 4 continents this calendar year.

James Baker @w_baker - 26 Jul 2016
Thanks Stephanie! The recent #librarycarpentry explosion has really taken me by surprise. So much great work out there.

Stefanie Morton @BooktopusSteph
Replying to @w_baker
For me, #librarycarpentry = FUN & accessible intro to using intimidating tools & skills I needed w/o knowing where to start!

Library Carpentry, Boston Edition
Wow -- Library Carpentry is popular indeed! This workshop reached capacity in five days, but you can still sign up for the waitlist. We'll let you know if any spaces o...
eventbrite.com

Liz Alvey @bibliaryand
Can't recommend #librarycarpentry highly enough - most worthwhile PD. I've done this year for improving my practice
Who is Library Carpentry? A community

The first class of Library Carpentry instructors in training: https://datapub.cdlib.org/2016/12/08/announcing-instructor-training-for-librarians/
True or false? Library Carpentry...

1. Is all about the tools
2. Offers a fixed suite of workshops
3. Lessons can be mixed & matched
4. No prior knowledge is required
5. Is aimed at library & information professionals
6. Teaches fundamental software & computational skills
7. Is taught by experts
True or false? Library Carpentry...

1. Is all about the tools ✗
2. Offers a fixed suite of workshops ✗
3. Lessons can be mixed & matched ✓
4. No prior knowledge is required ✓
5. Is aimed at library & information professionals ✓
6. Teaches fundamental software & computational skills ✓
7. Is taught by experts ✗
Session outline

1. The way it will work...
2. Introduction to OpenRefine
3. Importing data into OpenRefine
4. Basic OpenRefine functions - Part 1
   (Facets, filters and clustering)
5. Basic OpenRefine functions - Part 2
   (Transformations and GREL)
6. Advanced OpenRefine functions
   (APIs)
Look at what you’ve achieved!

<table>
<thead>
<tr>
<th>Getting data into OpenRefine.</th>
<th>Transforming your data using GREL.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Using Facets and Filters to explore your data and find inconsistencies.</td>
<td>Manipulating data types and formats using GREL.</td>
</tr>
<tr>
<td>Using Facets and Filters to isolate subsets of data.</td>
<td>Fetching data from a web API.</td>
</tr>
<tr>
<td>Cleaning and correcting common data issues using Facets and Clustering algorithms.</td>
<td>Parsing JSON data returned by web services.</td>
</tr>
</tbody>
</table>
Thank you!
Where to from here?

Thank you to our participants for their feedback.

Check out http://librarycarpentry.github.io/ & a blog post about the NLS8 workshop http://librarycarpentry.github.io/nls8/