
Front End Loader

Modern web technologies for interactive
digital humanities collections

Michael Lynch
Data Science Group Lead

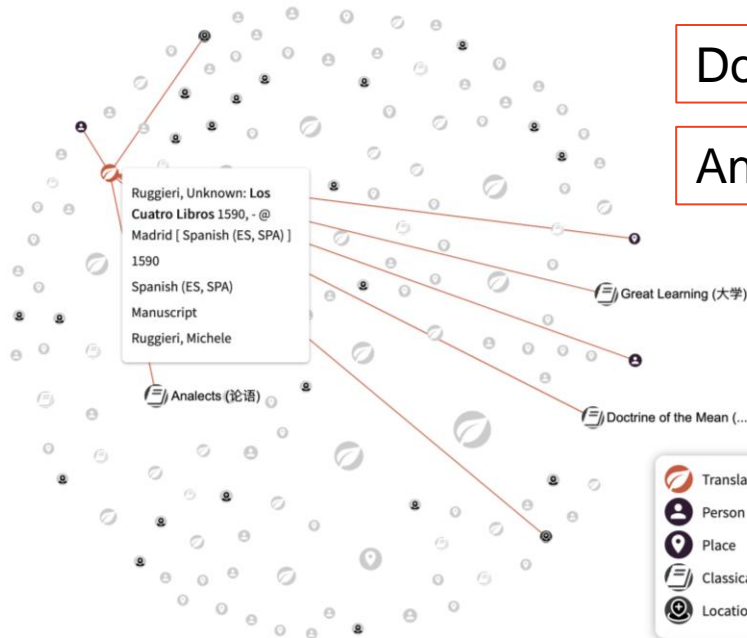
Sydney Informatics Hub
University of Sydney



Transforming the East

A/Prof Francesco Borghesi, Dr Danial Canaris, Prof Yixu Lu

<https://textus-sinici.org/>



Great Learning (大学)

Doctrina of the Mean (中庸)

Analects (论语)

Los Cuatro Libros

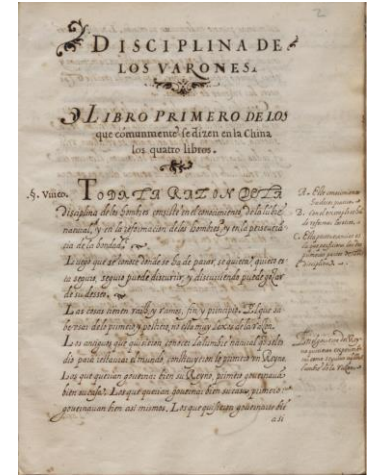
Year: 1590

Translator: Ruggieri, Michele

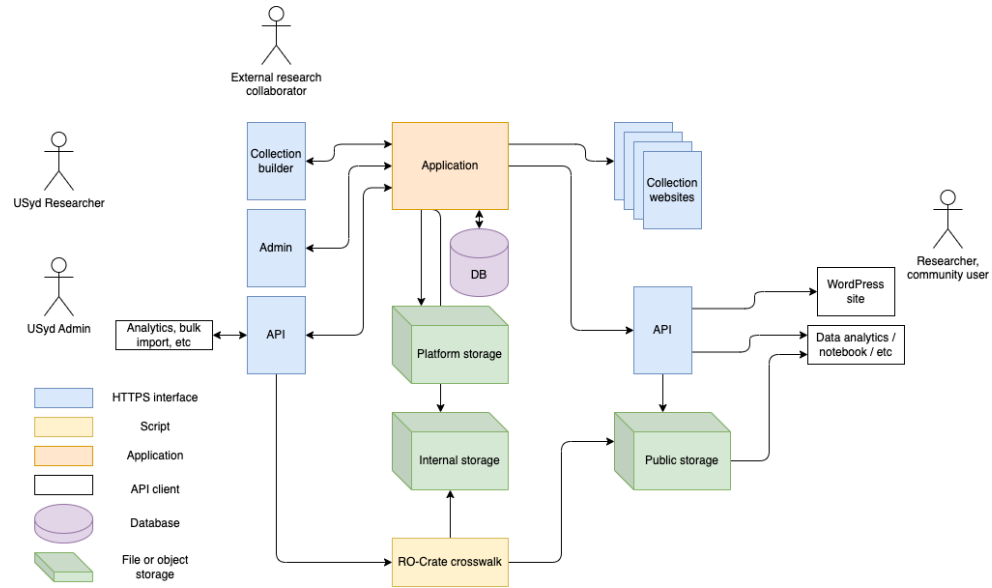
Language: Spanish

Place of translation: Madrid

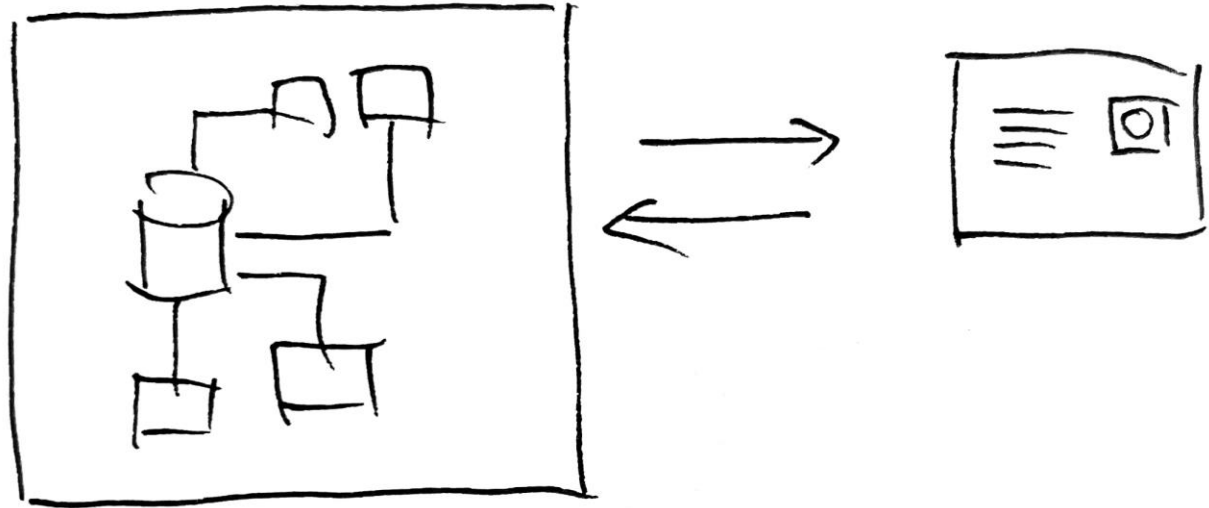
Locations of MS: National Taiwan University Library, Real Biblioteca del Monasterio de San Lorenzo el Escorial



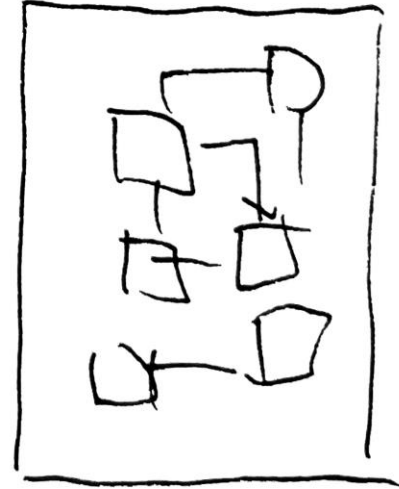
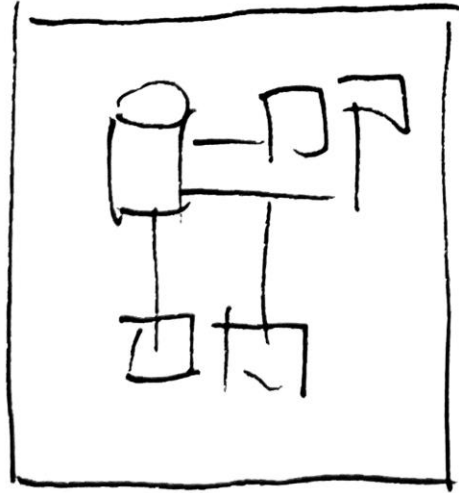
A digital humanities web stack



Web programming: a short history



Web programming: a short history



RO-Crate



Farms to Freeways Example Dataset

Name	Farms to Freeways Example Dataset
Description	This data set was exported from an Ormeka Repository as an example of a DataCrate. It contains the Collections and Items from the repository but does NOT have the exhibitions. The DOI resolves to an archive of the data elsewhere
Date Published	2015-12-01
@id	arcp://name,hdl10.4225~35-555d661071c76
Author	Deborah Chambers Carol Liston Christine Wieneke
Conforms To	conforms to
Contact Point	Contact Katrina Trewin
Publisher	Western Sydney University

Objects in Collection: 34

Observable: reactive code for data exploration

```
+ spreadsheet = Workbook {  
  sheetNames: Array(4) ["Clusters_Adults", "Categories_Adults", "Clusters_Adolescents", "Categories_Adolescents"]  
  <prototype>: Workbook {}  
}
```

Visualisation

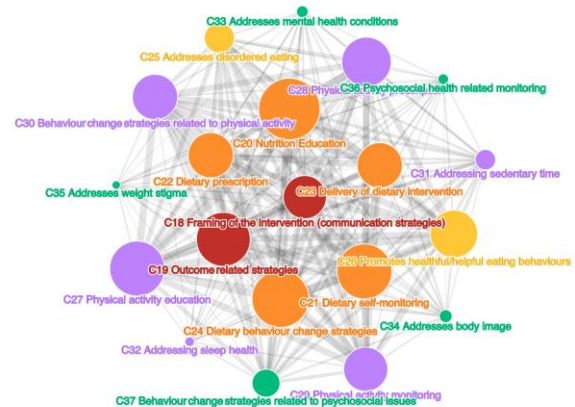
Node scale

```
viewof node_scale = Inputs.range([0.05, 1.0], {value:0.6,step:0.05,label: "Node scale"})
```

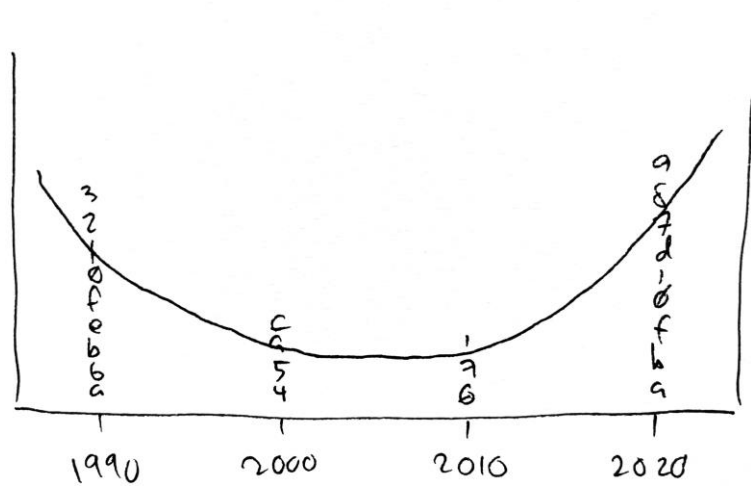
Link scale

Link opacity

Caption size

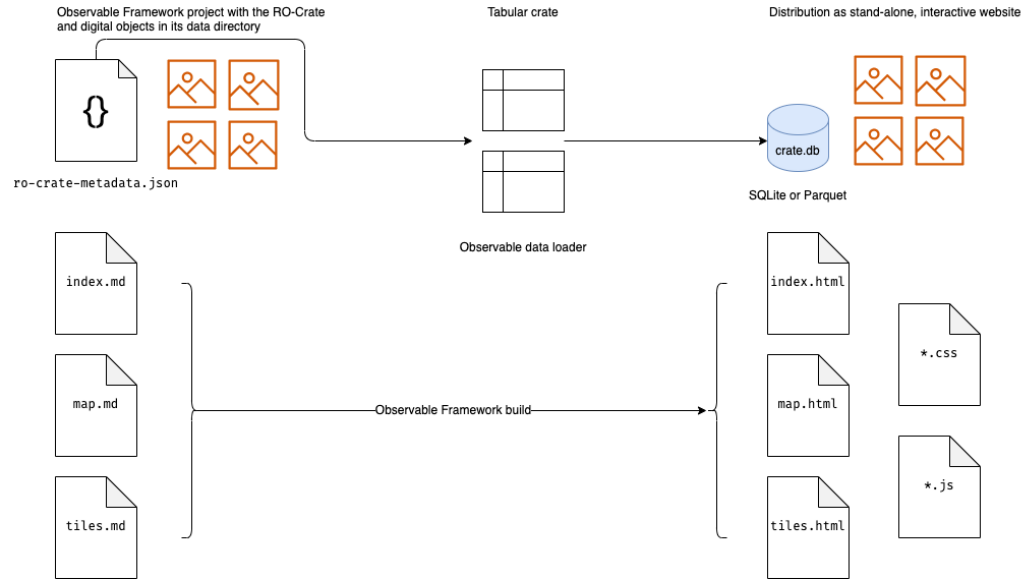


Web programming: a short history



— time waiting for code to compile
- - - time spent looking at hexadecimals

Building a "static" website



Front End Loader: v0.1.0

RO-Crate Explorer +

- Load
- Statistics
- Graph
- About

AustLit

Search

AustLit

The contribution from AustLit provides full-text access to select samples of out of copyright poetry, fiction and criticism ranging from 1795 to the 1930s. The collection includes literature intended for popular audiences as well as literature intended for audiences concerned with literary quality or the establishment of a national canon. The bibliographical information associated with these records enables researchers to investigate the relationships between texts and particular publishers or to track the first publication of each text in newspapers, magazines or journals. The collection includes bibliographic and production information for works of fiction and poetry, writing for the theatre, biographical and travel writing, writing for film and television, criticism and reviews and the people and organisations who produce them. This collection was previously accessible online via the Australian National Corpus (AusNC), an initiative managed by Griffith University between 2012 and 2023.

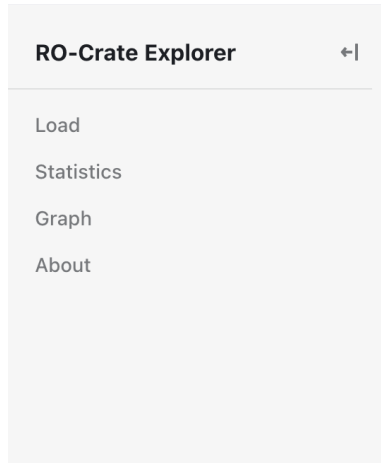
Links to this entity:

- [about](#)
 - [ro-crate-metadata.json](#)

Links from this entity:

- [hasPart](#)
 - [adventures-of-carol-in-bushland-original](#)
 - [adventures-of-carol-in-bushland-raw](#)
 - [adventures-of-carol-in-bushland-text](#)
 - [the-adventures-of-ralph-rashleigh-original](#)
 - [the-adventures-of-ralph-rashleigh-raw](#)
 - [the-adventures-of-ralph-rashleigh-text](#)

Front End Loader : v0.1.0



RO-Crate

Load an rocrate-metadata.json file: as this is a static site, the crate is stored in your browser session and won't persist.

Note that this is very experimental and will likely fail for files > 5MB.

ro-crate JSON ro-crate-metadata.json

QuotaExceededError: The quota has been exceeded.

WebAssembly



RO-Crate to SQLite



home / crate.ffab47f2

property

70,616 rows

- column - =

Apply

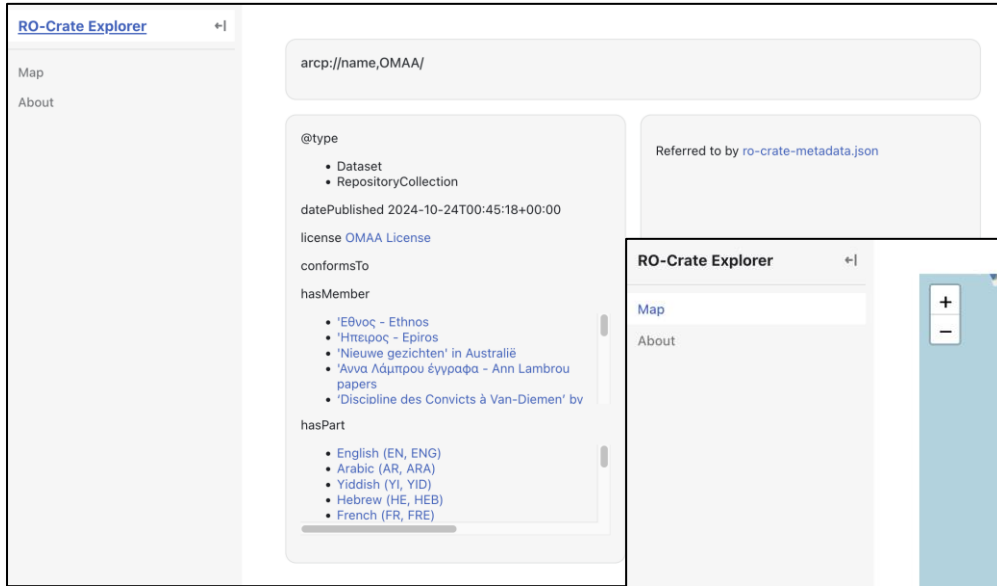
[View and edit SQL](#)

This data as [json](#), [CSV \(advanced\)](#)

Suggested facets: [value \(date\)](#)

Link	rowid ▼	row_id	source_id	source_name	property_uri	property_label	target_id	target_name	target_uri	value
1	1	0	arcpr://name,OMAA/			@type				Dataset
2	2	1	arcpr://name,OMAA/			@type				RepositoryCollection
3	3	2	arcpr://name,OMAA/			datePublished				2024-10-22T03:45:14+00:00
4	4	3	arcpr://name,OMAA/			license	https://fixme/OMAA-License	OMAA License		
5	5	4	arcpr://name,OMAA/			conformsTo				
6	6	5	arcpr://name,OMAA/			hasMember	#rec_2532	'Εἶνος - Ethnos		
7	7	6	arcpr://name,OMAA/			hasMember	#rec_2531	'Ἡπειρος - Epiros		
8	8	7	arcpr://name,OMAA/			hasMember	#rec_124	'Nieuwe gezichten' in Australië		

Front End Loader v 0.2.0



RO-Crate Explorer +|

Map
About

arcp://name,OMAA/

@type

- Dataset
- RepositoryCollection

datePublished 2024-10-24T00:45:18+00:00

license [OMAA License](#)

conformsTo

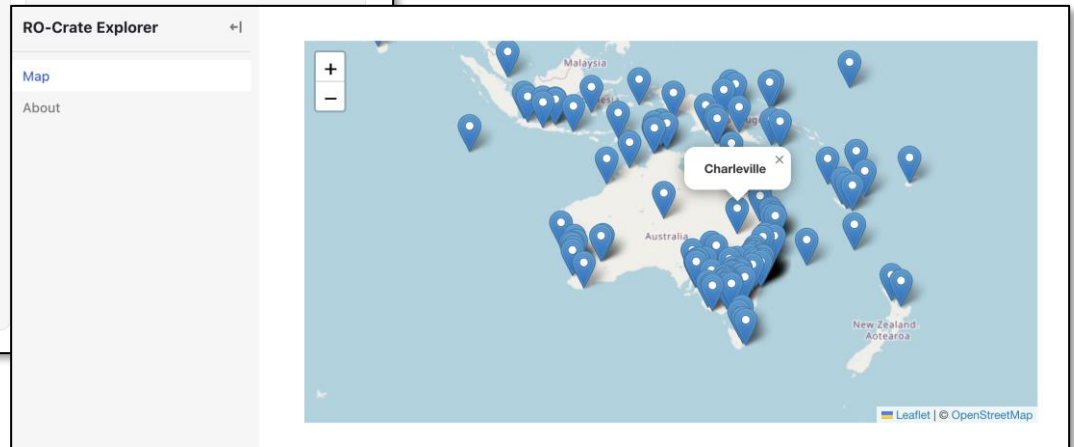
hasMember

- 'Εθνος - Ethnos
- 'Ἠπειρος - Epiros
- 'Nieuwe gezichten' in Australië
- 'Ἄννα Λάμπρου έγγραφα - Ann Lambrou papers
- 'Discipline des Convicts à Van-Diemen' by

hasPart

- English (EN, ENG)
- Arabic (AR, ARA)
- Yiddish (YI, YID)
- Hebrew (HE, HEB)
- French (FR, FRE)

Referred to by [ro-crate-metadata.json](#)



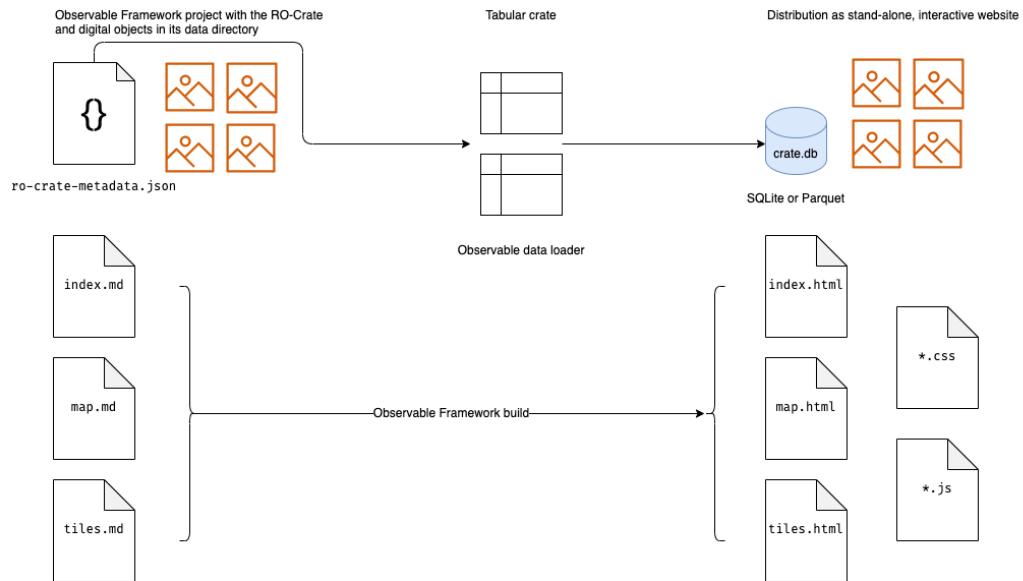
RO-Crate Explorer +|

Map
About

Charleville

Leaflet | © OpenStreetMap

Use cases and caveats



Sydney Informatics Hub
Mike Lynch

sydney.edu.au/research/facilities/sydney-informatics-hub.html

