



Graduate Research Forum

30/11/2023

Steve Ranford, Research Computing



Plan

▶ An introduction to the digital humanities

- IDG Technology for Research Team
- One take on the digital humanities and examples
- Research Centres?

▶ Doing digital humanities

- Tools of the trade
- *Computational analysis*
- *Digital Editions*
- *Online Exhibitions*
- *Networks*
- *Mapping*
- *Time*

▶ Some opportunities at Warwick

- Centre for Digital Inquiry
- Alan Turing Institute



What is digital humanities?

- ▶ *digital, social, public, open*
- ▶ *digitisation, annotation, presentation*
- ▶ *text as data, data as images, maps, timelines, social graphs*
- ▶ *social media, participatory, crowdsourcing*
- ▶ *sometimes new tools, sometimes existing tools put to new uses*
- ▶ *technologists and librarians as collaborators*
- ▶ *digital not just as outputs but as a form of scholarship*

Amber Thomas, Head of Academic Technology, Warwick, 2013

Introductions



Dr. Godwin Yeboah
Senior Research Software Engineer

Ph.D. GIS
MSc Software Technology
MSc Geoinformatics and
Photogrammetry



Steve Ranford
Senior Research Software Engineer



Digital Humanities?

- ▶ Whole books about defining the digital humanities (Terras, et. al., 2016)
 - The term is debated and widely used
 - Where the digital and computational interact with the arts and humanities
- ▶ Three waves (Berry, 2012)
 1. Digitisation and technical infrastructure
 2. Environments and tools for working with ‘born digital’ knowledge
 3. A means for investigating fundamental questions and assumptions in the humanities
- ▶ A big Digital Humanities tent
 - Bridging disciplines (Spinaci, et. al., 2022)
 - Covering a wide variety of projects and domains



Examples: Digital Editions

William Herle's Diary

Home Library People Events Reading Writing Health Meetings Search

Diary entry for 1801

Formatting People Places Health Meetings Reading Archives Topics Events

January

1801. Jan. 1. Th.
Castle-Howl, p. 200. D'Herbelot, calla. [Miss Wate](#) breakfasts & dines: Old Windsor: Southampton Long-coach: A Walker calls: call on Pall.

2. F.
D'Herbelot, Alcanus, C. M dines: theatre, Shylock & Harlequin's Tour, w. M. 1 & B.

3. Sa.
San 1. Childeasle, fm: Chardin, Vol. II, p. 209-224. "Maistre cultu": theatre, Les.

Jan. 4. Su.
Chardin, Vol. III, p. 28: Lettres Persanes, p. 49.

5. M.
Chardin, Vol. I, p. 143-168. Sup at Pall: talk of 1789.

6. Tu.
Chardin, p. 195. Dine at M's, w. Fells, M Lamb, Cha. Willis, E Hill Junr, L. F & M, adv. H Hill.

7. W.
Hist. Lit. Hist., Vol. V, p. 417-489: Chardin, p. 279. S. E. dines.

Godwin Diary

Van Gogh Letters

Source: original manuscript
Location: The Gogh Museum, inv. no. 18.176.10

Dear:

Lower back! This thing is terrible! I don't know how to deal with it. I'm not sure if it's the same as the one I had in the Netherlands. I'm not sure if it's the same as the one I had in the Netherlands. I'm not sure if it's the same as the one I had in the Netherlands.

Additional:

Your loving
Vincent

Van Gogh Letters

A. H. R. C Centre for Editing Lives And Letters
Letters of William Herle Project

HOME | Browse | Search | Images | Introduction

Transcript

Transcript ID: 1681_002121L121

Catalogue entry

Print-friendly PDF version

Editorial comments:

SP 12/143/1 f. 18r - 20v. Bishop Chardon to Sir Francis Walsingham and Lord Burghley. Only the part of the letter concerning Herle is reproduced.

Address List:

[Bishopric] to the right honorable my very singular good friends Thos L. Burghley High Treasurer of Englande and Sir Francis Walsingham knight principall Secretarye to the Queens Majestie at the Courts Maiee these

[Endorsement by unknown hand] 6 octob. 1580 Hy & master sc. Walsingham.

Letter Text:

[Ed. 16v.] In humble wise may yt please your H. to be advertised that my very good L. Earle of Deuon and the other knightes appointed to dwale in the affaires of Christs Colledge in Manchester have taken some paines to some good purpose. For by their wise and speciall dealing many of the Tenants are very reasonable and it) some shippes small though they be have

William Herle Letters

Home Browse the Catalogue Manage the Data Get the Data Survey 2017 Digital Documentation FAQ Feedback & Help

register login

Catalogue
Digital
Editions

explore the catalogue

Why? Since 2012 the Catalogue of Digital Editions has been gathering digital editions and texts in an attempt to survey and identify best practice in the field of digital scholarly editing. Analogous initiatives exist but don't provide the granular analysis of features necessary to better understand the rationale and methodology behind the creation of a digital edition. This Catalogue provides an accessible record of standards and building technologies used, and thus an

How? Development on this web application began in 2016 and aims at delivering the Catalogue data in an interactive and user-friendly manner, allowing users to browse, search, filter and order projects around their research interests.

What? The Catalogue continuously adds digital editions and always seeks external contributions. For instructions on how to submit a digital edition to the Catalogue, please visit the Documentation page of this site.

Projects added will be exposed to over 300 German libraries thanks to the Catalogue's integration into the German Library Network (DBES).

Dig-ed-cat

editions

TEI Publisher Registry

A Catalog of Digital Scholarly Editions

Alexis Kivri's Les

Alexis Kivri's Yo ja paina (Night and Day)

Allied Escher-Beethoven

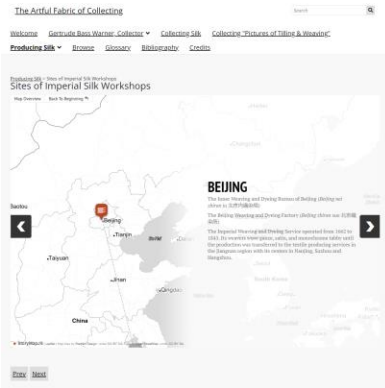
Aesthetica

E-editions

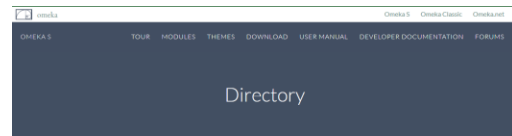
Examples: Digital Exhibitions



[Utah Women Working for Better Days](#)



[The Artful Fabric of Collecting](#)



This list is generated by Omeka users. Please add your Omeka-powered site via this form, and we will update this page.

A-F

- 1918 Flu Pandemic in Utah. The Utah Digital Newspaper archive is a valuable resource for looking at how historical events were recorded in the news media in Utah. With the arrival of the COVID-19 pandemic in Utah in March 2020, there was a compelling reason to examine news coverage during the 1918-1919 Spanish influenza for relevant stories about the impacts & responses in Utah during that pandemic. This exhibit looks at the major events during the Spanish influenza pandemic in Utah and explores several additional topics in greater detail: Logan Mitchell, Katie Clausen, Anna Heathcote, Tina Kiriakou, Philip Singer, Rachel Wittmann.
- African American AIDS History Project. Digital archive of African American responses to HIV/AIDS. Dan Royles, Eric Coriobla, Maria Santiago, Jorge Solórzano, students in AMNH 4373 (Fall 2017) at FSU.
- African Brilliance: A Diplomat's Sixty Years of Collecting is a digital exhibition catalogue, produced to accompany

[Omeka S directory](#)

Examples: Computational analysis

Programming Historian

Lesson Index

Our lessons are organized by topical pillars of the research process, as well as general topics. Use the buttons to filter lessons by category. If you can't find a skill, technology, or tool you're looking for, please let us know!

ACQUIRE (12) MANIPULATE (26) ANALYZE (20) PRESENT (13) COLLABORATE

APIS (7) PYTHON (26) DATA MANAGEMENT (8) DATA MANIPULATION (28) DISTANT READING (12)

SET UP (7) LINKED OPEN DATA (1) MAPPING (14) NETWORK ANALYSIS (1) WEB SCRAPING (5)

DIGITAL PUBLISHING (12) # (8) MACHINERY LEARNING (1)

WIDGET TO SEE ALL LESSONS (0)

START SEARCHING

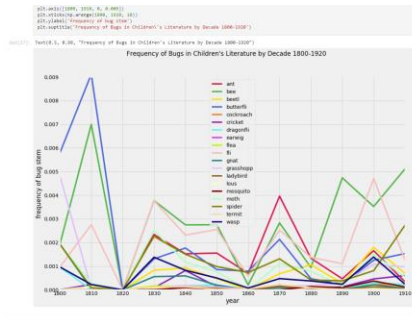
SORT BY PUBLICATION DATE SORT BY DIFFICULTY

FILTERING RESULTS: (97) DATE

ANOTHER TOOL, HISTORICAL AND MAPS: DIGITAL Introduction to Map Wigner

This lesson introduces basic use of Map Wigner for historical maps. It guides

Programming Historian



Bugs in Childrens Literature (1800-1920)

Stanford Literary Lab
Director: Mark Appelhans

Home People Pamphlets Projects Techno Events & Presentations

Pamphlets

17. Popularity/Prestige

Literary Lab

Popularity/Prestige

Viewing our Loaded Data

In Part 1 we saw an example of `show_batch`. This method allows you to preview some of your data and labels. We can pass `figsize=(15,15)` to control how large our displayed images are.

```
photo_data.show_batch(figsize=(15,15))
```

human human structure landscape

human

human

human

human

human structure

human

human

human

human

human structure

human human structure

Computer Vision for the humanities

GALE

GALE DIGITAL SCHOLAR LAB

Express your institution's Gale Primary Sources using digital humanities methodologies to discover new insights. Create your account to begin.

Build Your Content Sets

- Use Gale Primary Sources archives
- Upload and use your own text files
- Download content sets for use elsewhere

Clean Texts for Computational Analysis

- Apply step works to your analysis
- Use flexible options to target specific character removal
- Reuse configurations across Content Sets

Analyze Content in Powerful New Ways

- Visualize data from up to 10,000 documents at a time
- Explore individual documents overlaid with analysis data
- Download the raw data and your visualizations

Gale Scholar Lab

Examples: (Born) Digital Objects

YouTube Data Tools [Blog](#) [Software](#) [Research](#) [API](#) [About](#)

[Home](#) [Channel ID](#) [Channel Search](#) [Channel Network](#) [API v1](#) [API v2](#) [API v3](#)

This is a collection of simple tools for extracting data from the YouTube platform via the [YouTube API v3](#).

For some context and a small introduction, please check out this [copy post](#).

Each of the modules has a basic description of how it works, there is a [FAQ](#) section with additional information, and an [introductory video](#).

To learn more about how we handle data, please read our [privacy policy](#).

If you use this tool in a scientific publication, please cite it, e.g. in APA style: Rieder, Bernhard (2015), YouTube Data Tools (Version 1.23) [Software]. Available from <https://tools.digitalmethods.net/menue/youtuber/>.

Modules

Channel Info

This module retrieves different kinds of information for a channel from a specified channel id.

[Search](#)

Channel Search

This module searches for channels relevant to a user query.

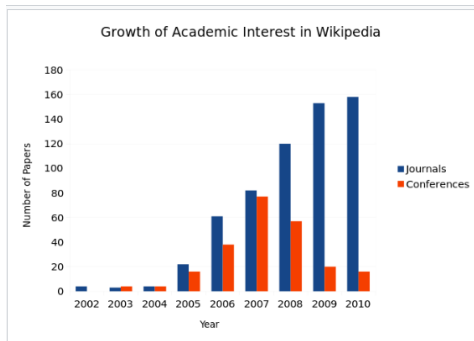
[Search](#)

Channel Network

This module creates a network of channels connected via the "featured channels" (and via subscriptions) tab from a list of seeds. Seeds can be channels retrieved from a search or via manual input of channel ids.

[Search](#)

[YouTube Data tools](#)



Growth of academic interest in Wikipedia: number of publications by year, from creation of Wikipedia to end of 2010. Source: based on mid-May 2011 revision of this page.

[Scholarly articles about Wikipedia](#)

digital methods initiative

What actually happened? The use and misuse of Open Source Intelligence (OSINT)

Digital Methods Winter School and Data Sprint 2023

Digital Methods

- Winter School 2023
- About
- People
- Tools
- Summer School
- Winter School
- Papers and Publications

Course

- The Link
- The Webset
- The Engine
- The Spheres
- The Webis
- Post-demographics
- Networked Content

Digital Methods Winter School and Data Sprint 2023

9-13 January 2023
<https://wiki.digitalmethods.net/Dms/WinterSchool2023>
in-person event

Coosting Time:
9 January at 9.15am Amsterdam time. Please be punctual!

[Digital Methods Initiative](#)

- ▶ How can technology help your research?
- ▶ What research questions can you address?
- ▶ Does it help you to ask new questions?



Communities



The screenshot shows the homepage of the Digital Humanities Quarterly website. At the top, there is a navigation bar with links for 'home', 'submissions', 'about dhq', 'dhq people', and 'news'. Below this is a search bar. The main content area is divided into two columns. The left column lists 'Current Issue' (2022: 16.3), 'Preview Issue' (2022: 16.4), and 'Previous Issues' with a list of years from 2022: 16.2 down to 2017: 11.3. The right column features the '2022 16.1' issue, with a sub-section for 'Articles'. The first article listed is 'Perceptual Effects of Hierarchy in Art Historical Social Networks' by Houda Lamqadam, Inez De Prekel, and Katrien Verbert, published by the University of Leuven. Other articles listed include 'A Text Network Analysis of Discursive Changes in German Austrian and Swiss New Year's Speeches 2000-2021' by Kimmo Elo, and 'Tesserae InterText Service' by Nozomu Okuda, Jefferly Kinnison, Patrick Burns, Neil Coffee, and Walter Scheerer.

[DH Quarterly](#)

Digital Humanities Awards

Highlighting Resources in Digital Humanities

[ABOUT](#) [2012](#) [2013](#) [2014](#) [2015](#) [2016](#) [2017](#) [2018](#) [2019](#) [2020](#) [2021](#) [TWITTER](#) [CONTACT](#)

About

This site is dedicated to **Digital Humanities Awards: Highlighting Resources in Digital Humanities**.

Digital Humanities Awards are a set of annual awards where the public is able to nominate resources for the recognition of talent and expertise in the digital humanities community. The resources are nominated and voted for entirely by the public. The swelling out by the nominations committee is solely based on the criteria of "Is it DH?", "Can voters see it?", "Is it in the right category?", and "Was it launched/published/recently updated in that year?". These awards are intended as an awareness raising activity; to help put interesting DH resources in the spotlight and engage DH users (and general public) in the work of the community. Awards are not specific to geography; language, conference, organization or field of humanities that they benefit. Any suitable resource in any language or writing system may be nominated in any category. DH Awards activity encourages representation from more minority languages, cultures, and areas of DH. All nominated resources are worth investigating to see the range of DH work out there.

There is no financial prize associated with these community awards.

Debates in the Digital Humanities

All the books in our series are here, available in *Manifold Project* editions.



The Digital Black Atlantic
Scopilio Rosen, Kelly Baker Josephs
Published March, 2021



Debates in the Digital Humanities 2019
Matthew K. Gold, Lauren F. Klein
Published April, 2019



Bodies of Information
Intersectional Feminism and Digital Humanities
Jacqueline Wernimont, Elizabeth Losh
Published January, 2019



Making Things and Drawing Boundaries
Experiments in the Digital Humanities
Jeremy Seyers
Published January, 2018



Debates in the Digital Humanities 2016
Matthew K. Gold, Lauren F. Klein
Published April, 2016



Debates in the Digital Humanities
Matthew K. Gold
Published January, 2013

SEE THE FULL COLLECTION →

ional nominations committee who will decide on final candidates for each category based on whether they

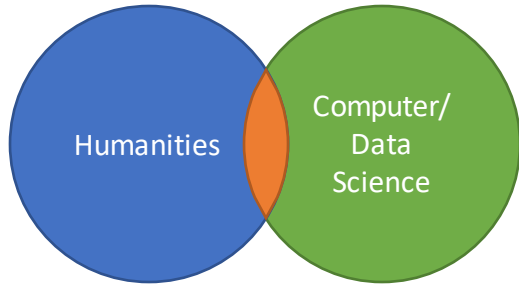
By powered by WordPress Theme: *Online* by WordPress.com.

[DH](#)
[Awards](#)

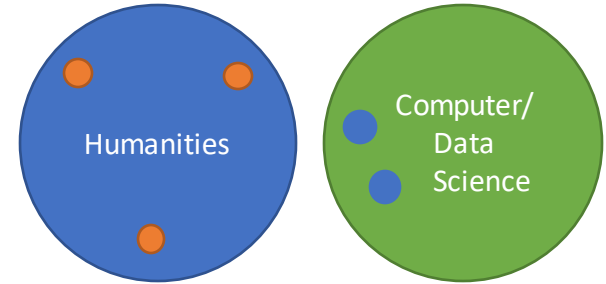
[DH Debates](#)

The 'DHer' and institutional structures

1. Dedicated research centres



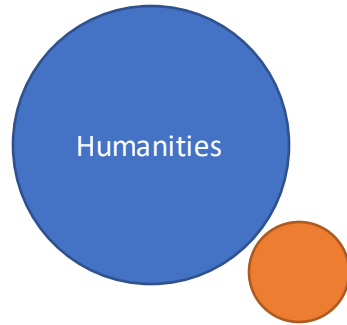
2. "lone wolves"



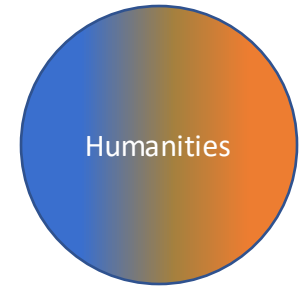
Inspired by "The disciplinary impact of the digital: DH and 'the Others'",
Elena Pierazzo, 2017
<https://hal.archives-ouvertes.fr/cel-01544594>

The 'DHer' and institutional structures

Brand new disciplines



DH feeds back to enrich disciplines



Inspired by "The disciplinary impact of the digital: DH and 'the Others'",
Elena Pierazzo, 2017
<https://hal.archives-ouvertes.fr/cel-01544594>

Centre for Digital Inquiry

The screenshot shows the homepage of the Centre for Digital Inquiry at Warwick University. The browser address bar displays the URL https://warwick.ac.uk/fac/cross_fac/cdi/. The page features a purple header with the Warwick logo and the text 'WARWICK Centre for Digital Inquiry'. A search bar is located in the top right corner. Below the header is a navigation menu with links for 'About Us', 'Projects', 'People', 'News & Events', 'Get Involved', and 'Contact'. The main content area is divided into three columns, each featuring a featured article with a thumbnail image and a text block.

Cookie preferences | Notify | Edit | James Tripp 1

WARWICK

Search Warwick

About Us | Projects | People | News & Events | Get Involved | Contact

[Edit content blocks](#) [page](#) [management](#)

became Social Media

[Inquiries Series](#)

Catch up on the latest CDI 'Inquiries' talks featuring Louise Amoore, Nick Seaver, Lana Swartz, Rachel O'Dwyer, Bernhard Rieder and Taina Bucher [here](#).

A Sleepwalker's Guide to Social Media

The CDI is delighted to co-host a visit from Tony Sampson to discuss themes from his latest book...

Pandemic Platform Governance

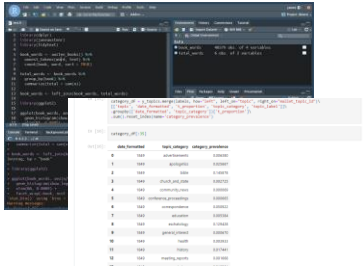
CDI members Michael Dieter and Nate Tkacz have published the findings of their ESRC-funded study of Covid Apps. Get the full article in [Internet Policy Review](#).

Doing Digital humanities

Tools of the Trade

Programming languages

- R
- Python
- JavaScript
- PHP



Tools of the Trade

Programming languages

- R
- Python
- JavaScript
- PHP

Libraries

- Mallet
- SpaCy
- Etc.



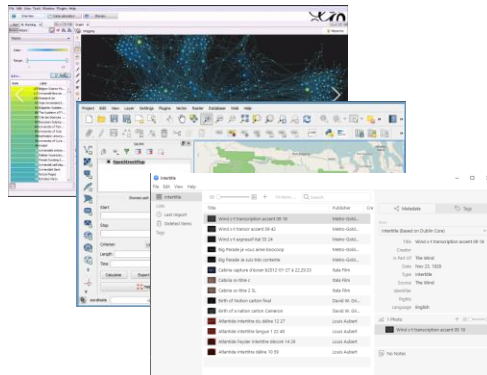
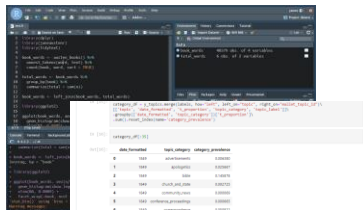
Tools of the Trade

Programming languages

- R
- Python
- JavaScript
- PHP

Desktop Applications

- Gephi
- QGIS
- Tropy
- OxygenXML



Tools of the Trade

Programming languages

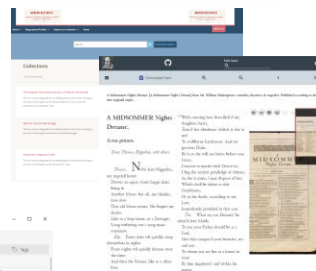
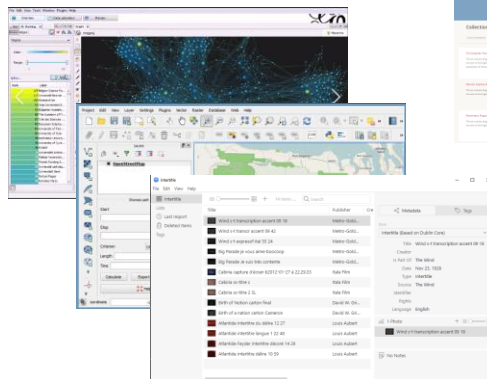
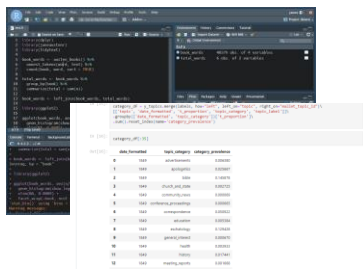
- R
- Python
- JavaScript
- PHP

Desktop Applications

- Gephi
- QGIS
- Tropy
- OxygenXML

Self/IDG-hosted applications

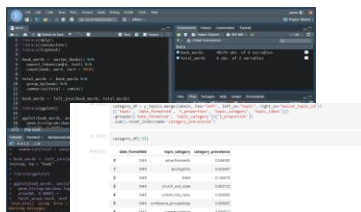
- Omeka S
- TEI Publisher



Tools of the Trade

Programming languages

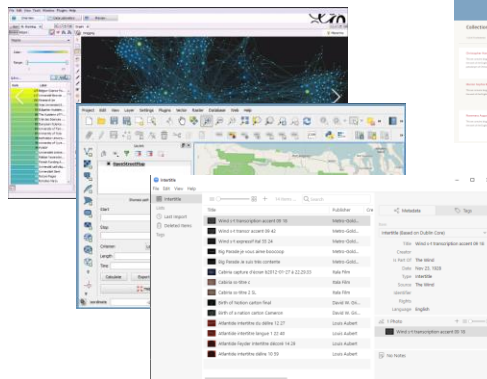
- R
- Python
- JavaScript
- PHP



File	Category	Category	Category
1	1000	10000000	10000000
2	1000	10000000	10000000
3	1000	10000000	10000000
4	1000	10000000	10000000
5	1000	10000000	10000000
6	1000	10000000	10000000
7	1000	10000000	10000000
8	1000	10000000	10000000
9	1000	10000000	10000000
10	1000	10000000	10000000
11	1000	10000000	10000000
12	1000	10000000	10000000
13	1000	10000000	10000000
14	1000	10000000	10000000
15	1000	10000000	10000000
16	1000	10000000	10000000
17	1000	10000000	10000000
18	1000	10000000	10000000
19	1000	10000000	10000000
20	1000	10000000	10000000

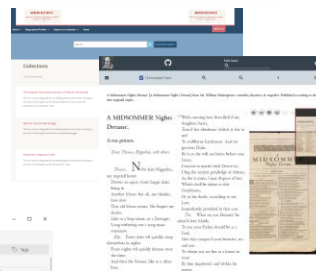
Desktop Applications

- Gephi
- QGIS
- Tropy
- OxygenXML



Self/IDG-hosted applications

- Omeka S
- TEI Publisher



External applications

[Gale Scholarly lab](#)
ArcGIS

! [Recogito](#)

! [Voyant](#)


! [Pallidio](#)

! [Transkribus](#)

! [Lexos](#)



Warning

- ▶ Be careful using online tools where you upload data
- ▶ If you use non-standard in your research then complete [Software procurement](#) to check compliance
- ▶ This applies to links with 



Data Licenses

- ▶ Research data is often released under a license
- ▶ There is guidance on [the library website](#)
- ▶ If unsure:
 - check the guidance
 - ask your supervisor, the library, and peers

Licensing your research data

Licensing allows you to specify what people can and cannot do with your data and allows both you and the users of your data to be clear on what the rights situation is in relation to your data.

It is best to have an idea which license you plan to use before you start collecting the data. This will allow you to clarify the legal position and ownership of the data early on and can help in planning consent requests from research participants. If you are subject to [funder requirements](#) or collaborating with other researchers discuss your plans with them early on as well.


Available licenses

There are a number of different licensing schemes that you can use for research data depending on what the data is and how it is formatted. **Please note:** some data services/centres have specific recommended licenses for data you deposit with them that you must use.

- [Creative Commons licenses](#) are a range of open licenses allowing you to mix and match the level of rights you are retaining and are commonly used for research publications and other research outputs
- [Open Data Commons](#) offer two licenses that are often used for research data
- [Open Government License](#) is used for public sector databases and data. You may be using data subject to this license and so should be aware of it
- [GNU General Public License 3.0 \(GPLv3\)](#) is the license most often recommended for open source software releases

The DCC has published a best practice guide on how to license research data. Please see "How to License Research Data" [guidance](#) published by DCC.

From the library website, 18/11/2022



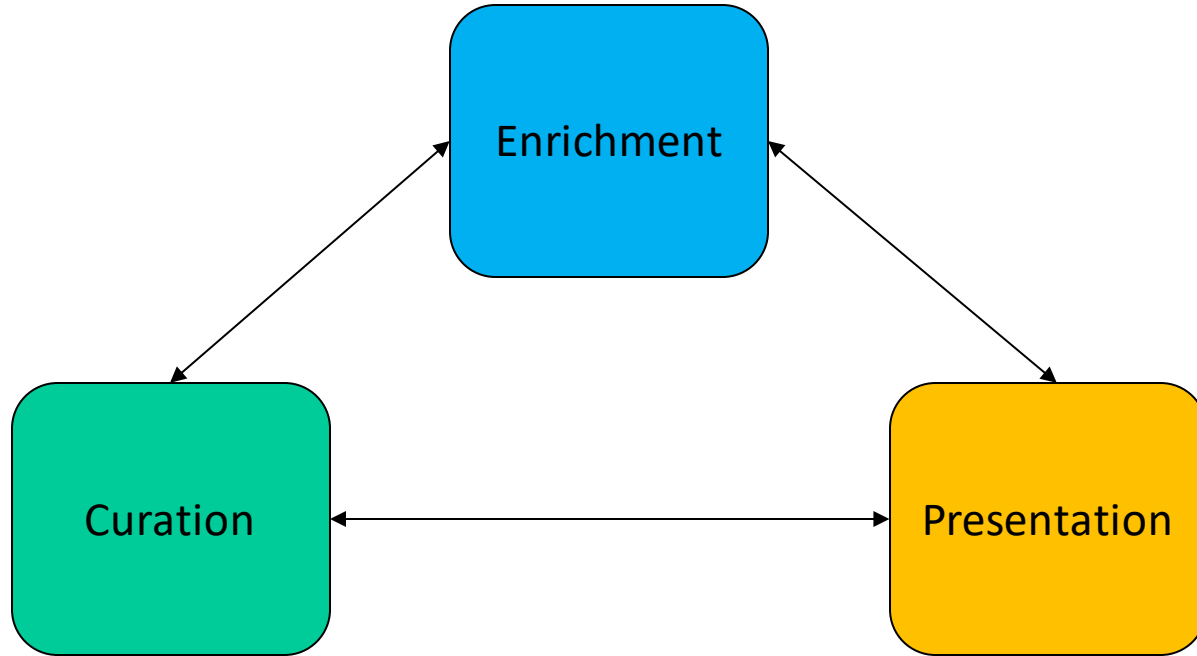
Datatypes

- ▶ We work with a wide range of data
 - Text
 - Maps
 - Images
 - And more (music, video, etc.)

- ▶ Tools enable us to create narratives and investigations



Corpora/data




Computational text analysis

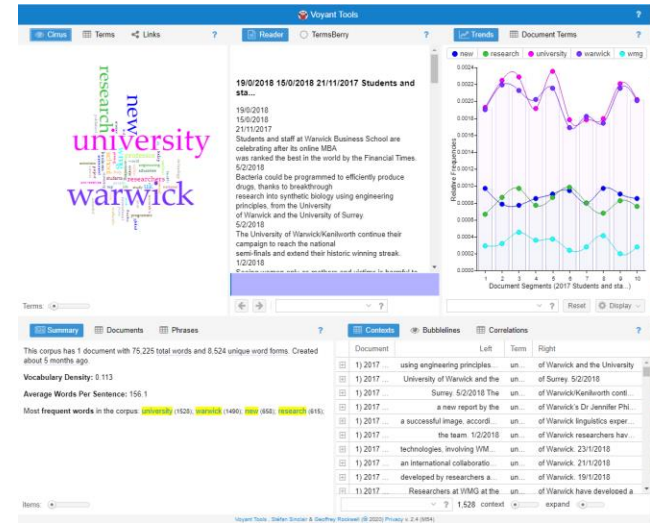
- ▶ Identify texts (sources/Gale database) and get into tool (Voyant, R/Python, Gale scholar lab)
- ▶ Clean data and run an analysis (word count, NLP, sentiment analysis, topic modelling)
- ▶ Create a visualisation or summary



Text

- ▶ For instance, working with unstructured and semi structured text

- ▶  Voyant Tools:
<https://voyant-tools.org/>



Gale Scholar Lab

- ▶ Run text analysis over primary source collections provided by Gale via the Library (Including ECCO)
- ▶ ‘Beyond search’ Qual/Quant methods: Topic Modelling & Clustering, Natural Language Processing, Ngram, Parts of Speech
- ▶ [Gale Scholarly lab @ Warwick](#)

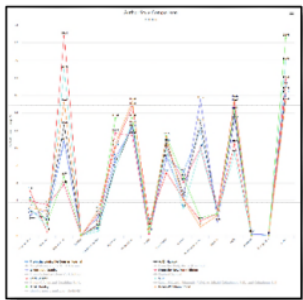


Analysis Tools in the Lab

QUANTITATIVE ANALYSIS

Parts of Speech uses natural language processing of syntax to recognize, and tag parts of speech. In this implementation of Parts of Speech Tagger you may review how authors use of speech varies over time.

Open Source developer: [spaCy](#)



Named Entity Recognition (NER) recognizes and extracts proper and common nouns from documents using a Parts of Speech tagging method, and outputs them as lists of grouped by entity "type". Some "entity types" available for extraction are: people (including fictional), groups (nationalities, religious, or political), organizations, locations, products, works of art, dates , among others. This implementation uses **spaCy's** Named Entity Recognition model. [Learn more here](#)



An **Ngram** is a term, or collocation of terms, found in your content set. You set the range or number of terms ('N') you wish to consider in your analysis. Then, the frequency of those Ngrams is counted and displayed for analysis.

Ngram examples:

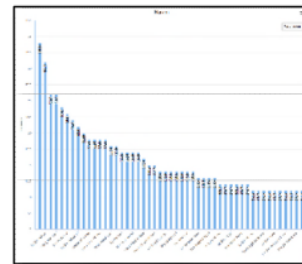
N=1: Unigram

"a", "the", "turtle", "frankenstein"

N=2: Bigram

"on the", "turtle dove", "mary shelley"

[Learn more here](#)



QUALITATIVE ANALYSIS

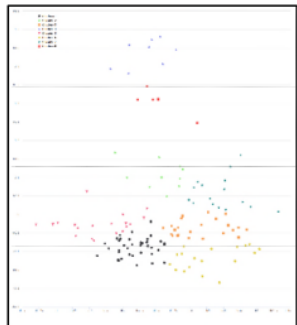
Sentiment analysis determines a tally of the positive or negative words within each document of a content set. It uses the **AFINN lexicon** (dictionary of words and their sentiment value) to compile sentiment scores for each phrase, which are then compiled to produce a document-level sentiment value. By establishing polarity within the texts (i.e. positive/negative word association), this tool can classify the documents in your content set between positive to negative sentiment.



Clustering analyzes the documents from a content set using statistical measures and methods to group them around particular features or attributes. This implementation of clustering leverages the **k-means** algorithm to create clusters of documents according to similar words contained within each document of your content set.

Open Source developer: [Scikit-Learn](#)

[Learn more here](#)

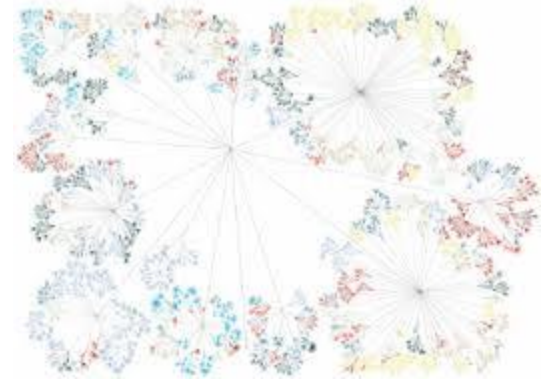


Topic modelling allows users to analyze a large corpus of unstructured (DCR) text. A "topic," often referred to as a "bag of words," is a collection of terms that frequently co-occur in your collection of documents. **Mallet** uses Latent Dirichlet allocation (LDA) models to extract contextual clues in order to connect words with similar meanings, as well as differentiate between words that are spelled similarly but have differing meanings. [Learn more here](#)



Distant reading

- ▶ “understanding literature not by studying particular texts, but by aggregating and analyzing massive amounts of data.” Moretti (2000)
- ▶ [Distant Reading \(usc.edu\)](http://www.usc.edu)



Distant reading example shows the structure of and the themes in Jack Kerouac's "On the Road" from <http://www.stefanieposavec.com/writing-without-words>
Source: Intro to DH-HS3393

Distant reading

- ▶ R and Python have good text analysis support
- ▶ E.g., [Text Mining with R](#)

Text Mining with R: A Tidy Approach

Search

Table of contents

Welcome to Text Mining with R

Preface

- 1 The tidy text format
- 2 Sentiment analysis with tidy data
- 3 Analyzing word and document frequency: tf-idf
- 4 Relationships between words: n-grams and correlations
- 5 Converting to and from non-tidy formats
- 6 Topic modeling
- 7 Case study: comparing Twitter archives
- 8 Case study: mining NASA metadata
- 9 Case study: analyzing usenet text
- 10 References

View book source

Welcome to Text Mining with R

This is the website for *Text Mining with R*. Visit the GitHub repository for this site, find the book at O'Reilly, or buy it on Amazon.

This work by Julia Silge and David Robinson is licensed under a Creative Commons Attribution-NonCommercial-ShareAlike 3.0 United States License.



Preface »



On this page

Welcome to Text Mining with R

View source

Edit this page

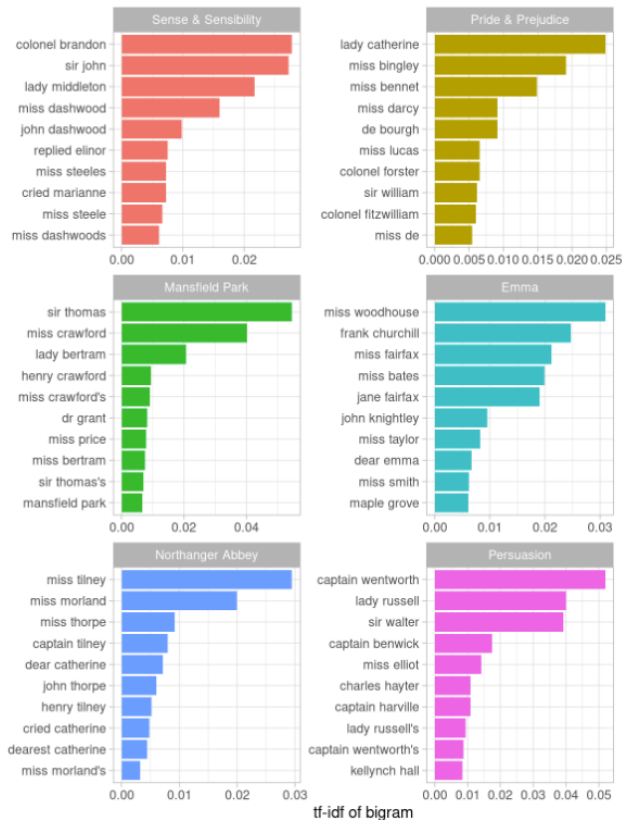


Figure 4.1: Bigrams with the highest tf-idf from each Jane Austen novel

Digital Editions

Digitisation

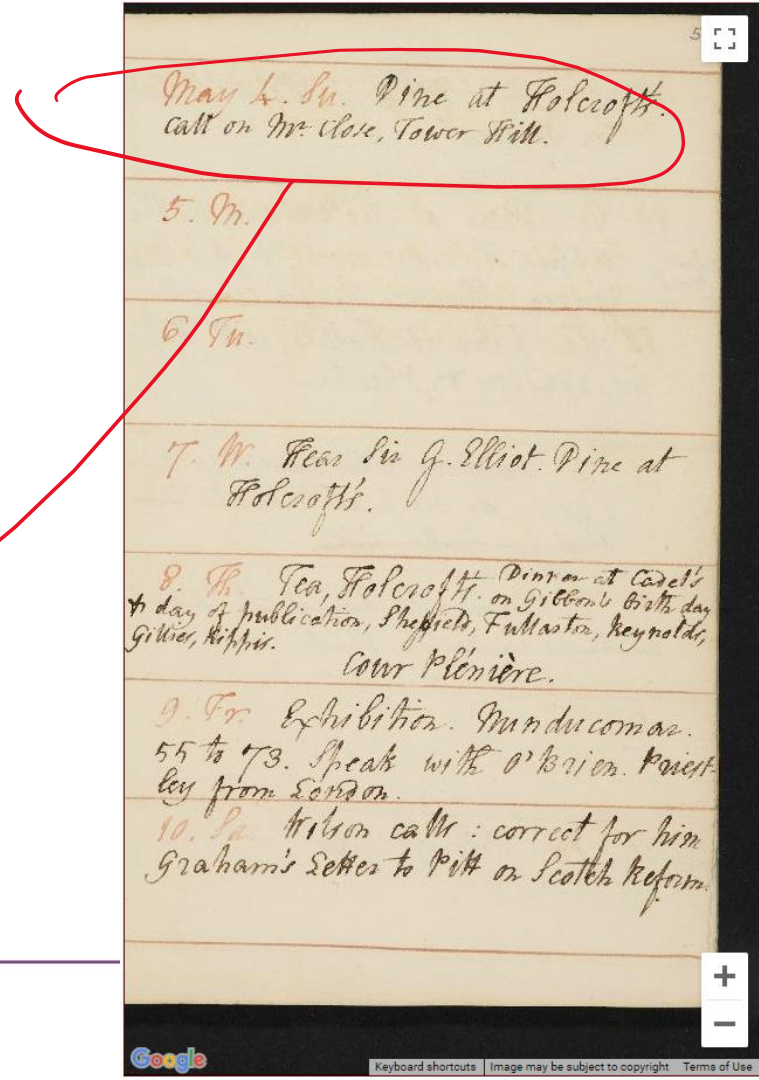
Digital Editions

- ▶ William Godwin's Diary (Mark Philp)
- ▶ <http://godwindiary.bodleian.ox.ac.uk>

Meetings -- Godwin on X

Search Filter Display records

Diary Date	
7 April 1788	Called at Webb's
22 April 1788	Call at B. Hollis's
27 April 1788	Call at Holcroft's
4 May 1788	Call on Mr Close, Tower Hill
11 May 1788	Call on Wilson
6 June 1788	Call at Webb's
6 June 1788	do Miss Williams's
2 July 1788	Call on Kippis
7 July 1788	Call on Kippis
10 July 1788	Call at Miss Williams's



Digital Editions

```
<ab type="dDay" xml:id="g1788-05-28">
  <date when="1788-05-28">28. W.</date>
  <ref type="dEntertainment" subtype="Exhib" target="/events/ex0002.html">See <persName>bishop Newton's</persName>
exhibition</ref>. <seg type="dMeal" subtype="D">Dine with <persName ref="/people/FAW01.html">
  <placeName type="venue">Fawcet</placeName>
  </persName> in <placeName>Vere Street</placeName>
</seg>
</ab>
```



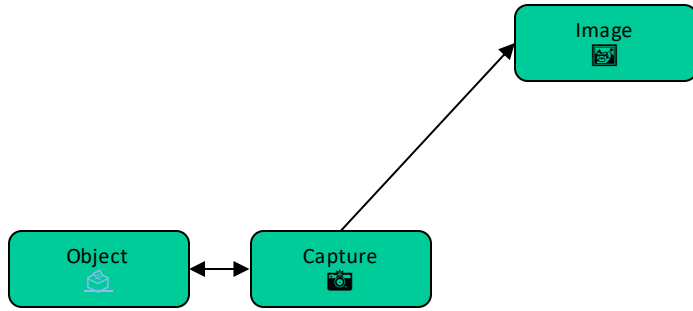
(Scholarly) Digital Editions

“Scholarly digital editions (or SDEs) offer the opportunity to overcome the limitations of print technology. The new possibilities have a fundamental impact on the theory and methodology of critical editing in general. The large corpus of research literature on digital scholarly editing is full of discussion about new features, functions, properties and characteristics of this kind of scholarly endeavour and how this changes our practices, our theoretical grounds and our goals.”

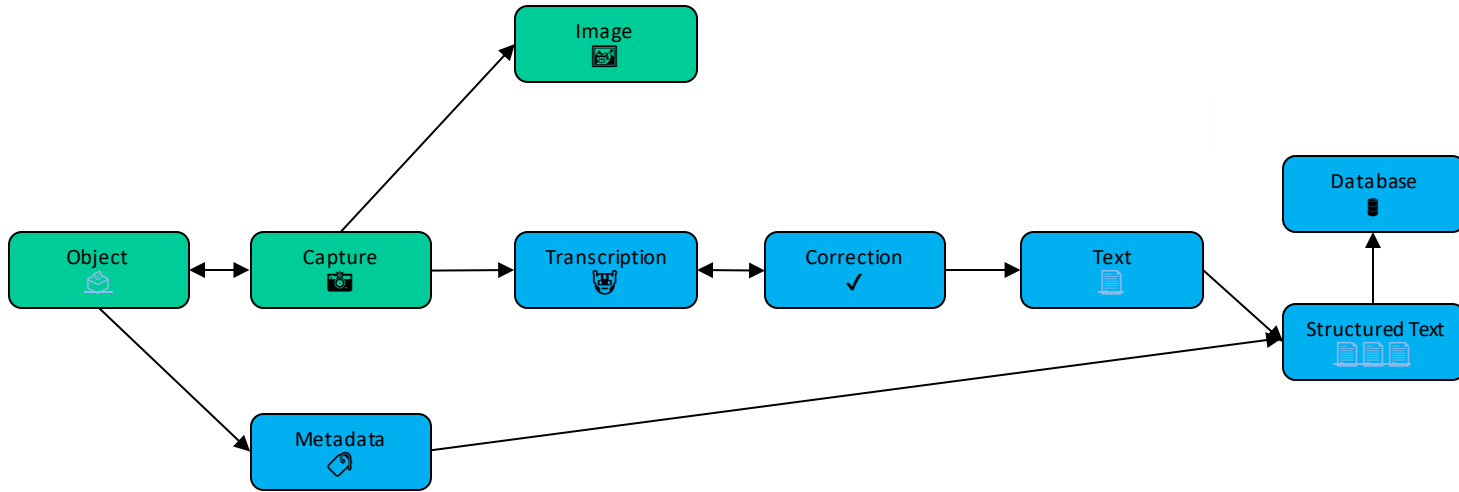
Sahle (2016)



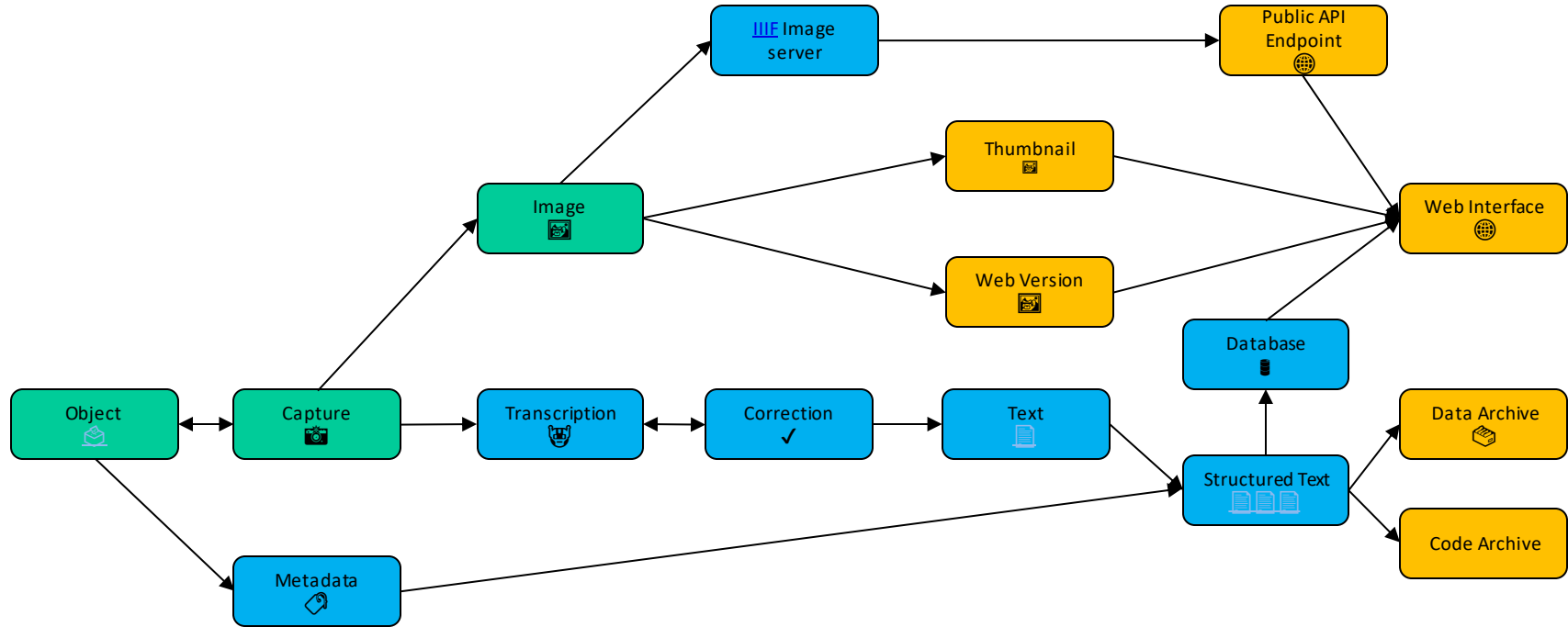
Digitisation workflow



Digitisation workflow



Digital Edition workflow

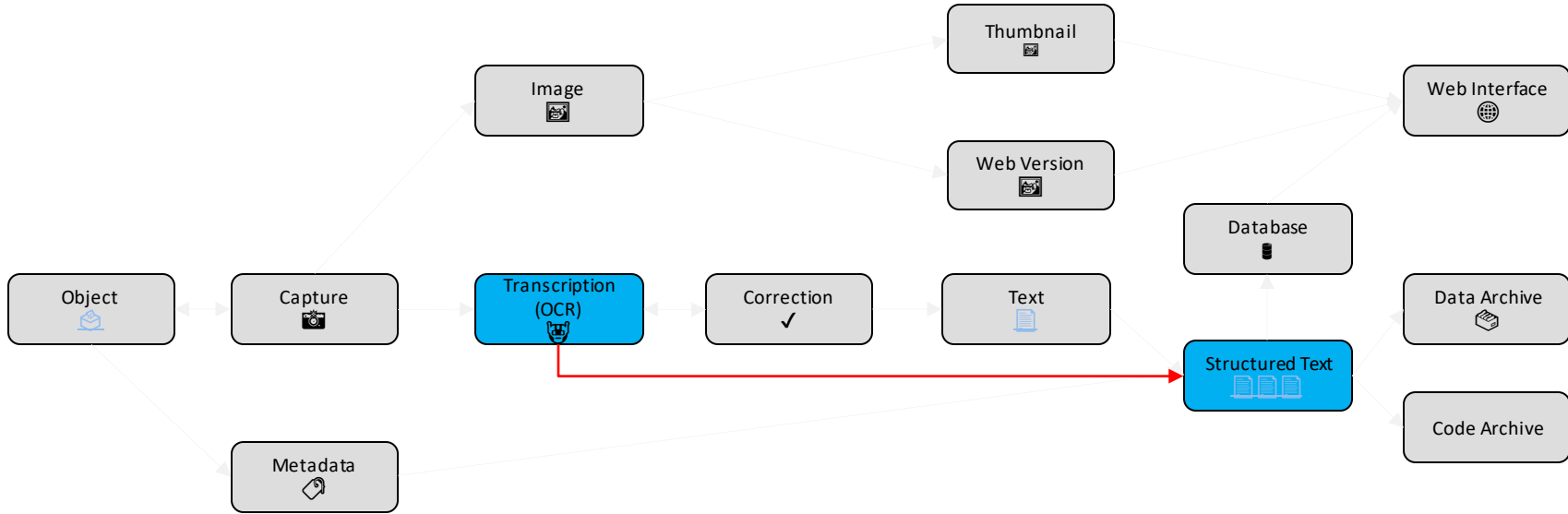


Digital Editions and Annotations

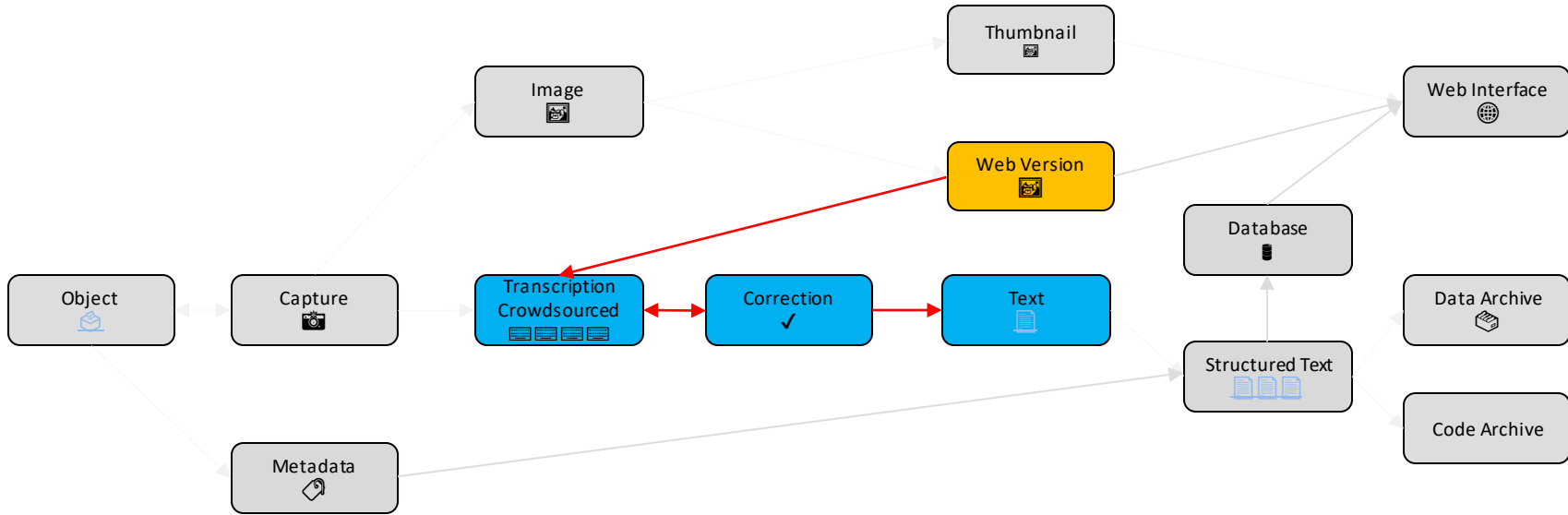
- ▶ Transkribus (AI handwriting recognition)
 - <https://transkribus.eu> ⚠
- ▶ TEI Publisher
 - <https://teipublisher.com/> ⚠
- ▶ Scripto (crowdsourced transcription)
 - <https://scripto.org/> ⚠
- ▶ Recogito (Semantic annotation of texts and images)
 - <https://recogito.pelagios.org> ⚠



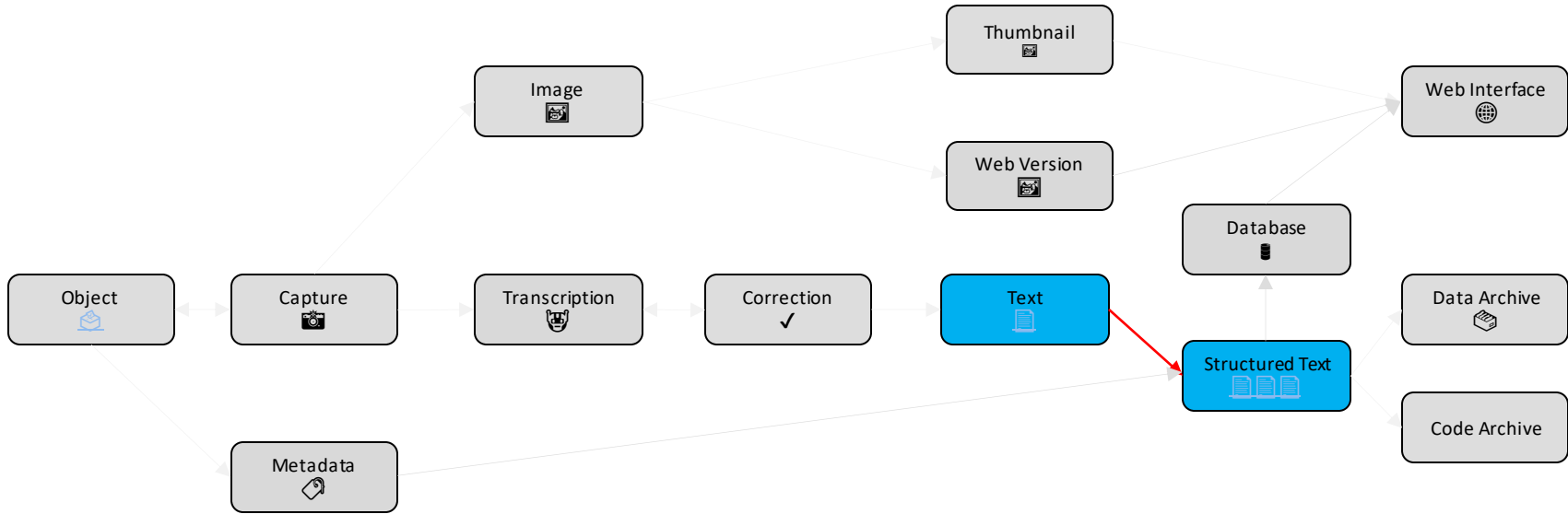
Digitisation workflow: Transkribus



Digitisation workflow: Scripto



Digitisation workflow: Recogito



Digital Editions and Annotations

Text
Encoding
Initiative

XML
Format
and styling

To Hendrik Verzijl. The Hague, Saturday, 26 October 1872. [see original](#)

Source status:

Original manuscript

Location:

's-Hertogenbosch, BHIC, family archive De Jonge van Zwijnsbergen, 319, inv. no. 438

Date:

Letter headed: 'den Haag 26 Oct. 1872'

Additional:

Below the signature are the words 'WelEd. Heer H. Verzijl / Helvoirt / p.c.' These lines must have been written after Van Gogh had folded the letter over twice. We regard them as an address, not as part of the letter. 'p.c.' is the abbreviation for 'par couvert', meaning that the letter was enclosed with another item, very probably a letter to Vincent's parents, with the request that they pass it on to him.

Jansen *et al.* 2012.

View Original text

Ir:1

den Haag 26 Oct. 1872

WelEd. Heer,

Tot mijn leed wezen ben ik geen van de door U opgegeven stukken kunnen machtig worden, daar zij allen hooger zijn gegaan dan de opgegeven prijzen.—

Zij zijn allen gekocht door den Heer v. Stockum, die er commissie op scheen te hebben.

View Translation

Ir:1

The Hague, 26 Oct. 1872

Dear Sir,

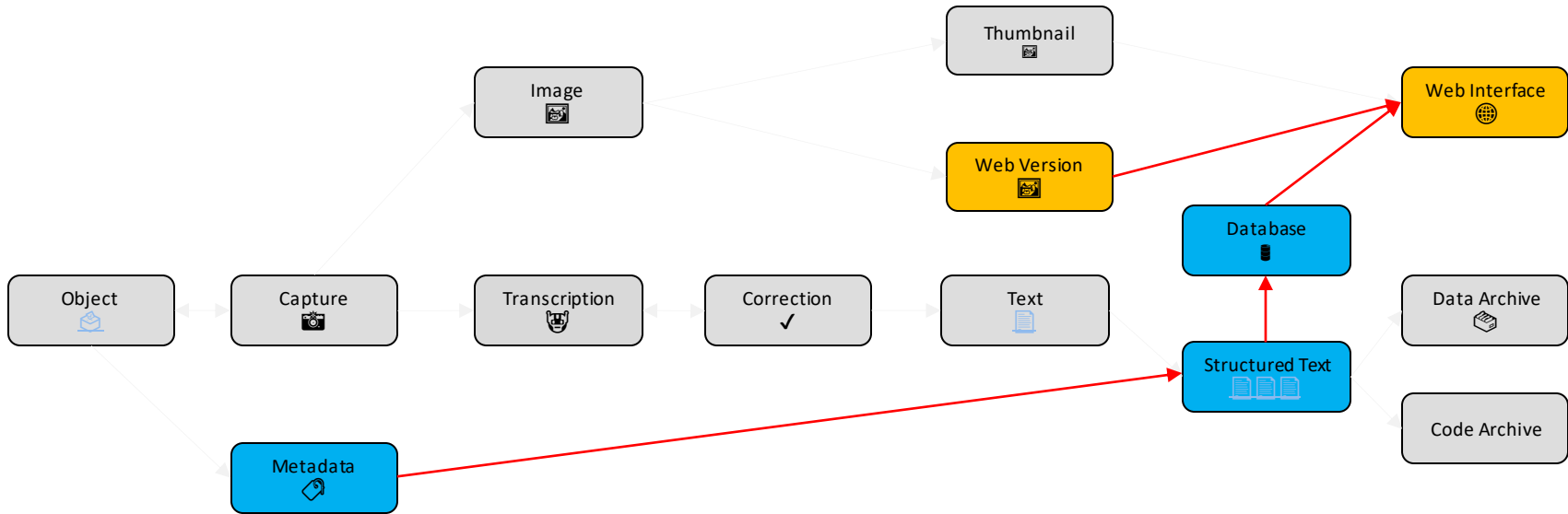
I regret that I have been unable to obtain any items you specified, since they all fetched more than specified.

They were all purchased by Mr Van Stockum, who had apparently been acting on commission.

Crowdsourced
transcription

Semantic annotation

Digitisation workflow: TEI Publisher



Digital Editions

- ▶ [Carpentries: TEI training](#)
- ▶ IDG hosted TEI publisher (future service)
- ▶ [E Editiones community](#)
- ▶ [TEI by example](#)



Online Exhibitions

Online Exhibitions

Home Browse the Catalogue Analyze the Data Get the Data Survey 2017 Output Documentation FAQ Feedback & media
imprint Log in

Catalogue Digital Editions

> explore the catalogue

Why? Since 2012 the *Catalogue of Digital Editions* has been gathering digital editions and texts in an attempt to survey and identify best practice in the field of digital scholarly editing. Analogous initiatives exist but don't provide the granular analysis of features necessary to better understand the rationale and methodology behind the creation of a digital edition. This *Catalogue* provides an accessible record of standards and building technologies used, and thus an

How? Development on this web application began in 2016 and aims at delivering the *Catalogue* data in an interactive and user-friendly manner, allowing users to browse, search, filter and order projects around their research interests.

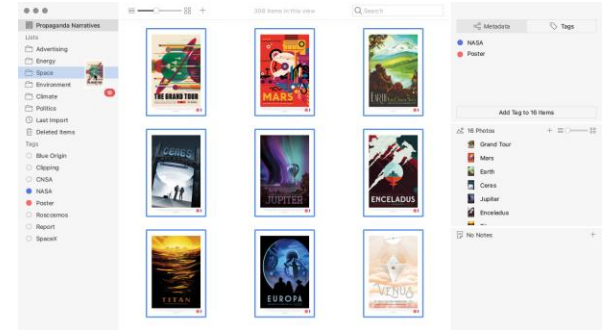
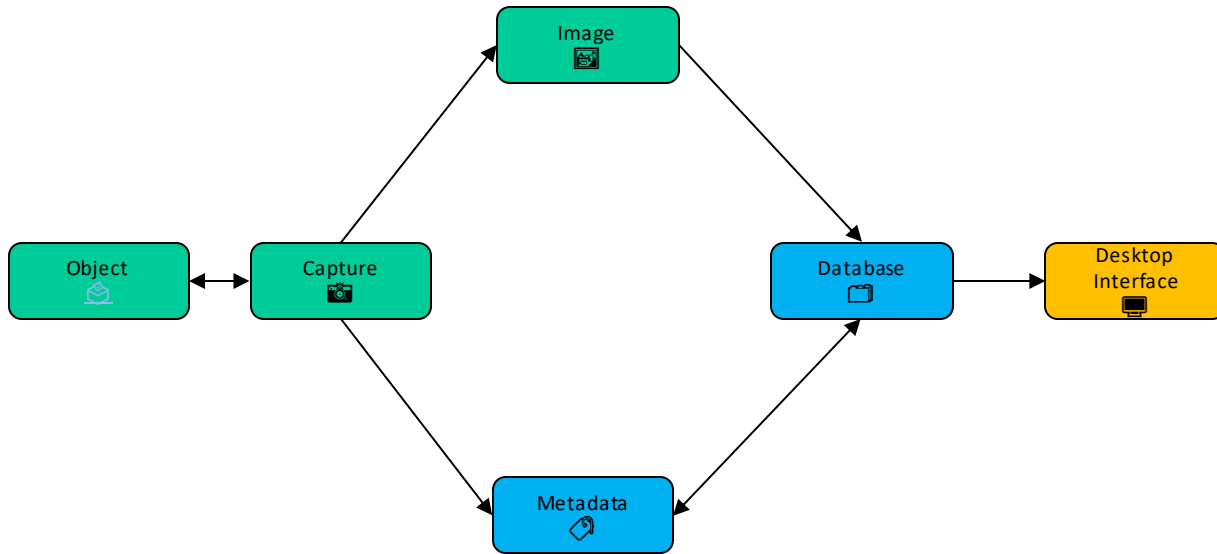
What? The *Catalogue* continuously adds digital editions and always seeks external contributions. For instructions on how to submit a digital edition to the *Catalogue*, please visit the *Documentation* page of this site.

Projects added will be exposed to over 300 German libraries thanks to the *Catalogue's* integration into the German Library Network (DBIS).

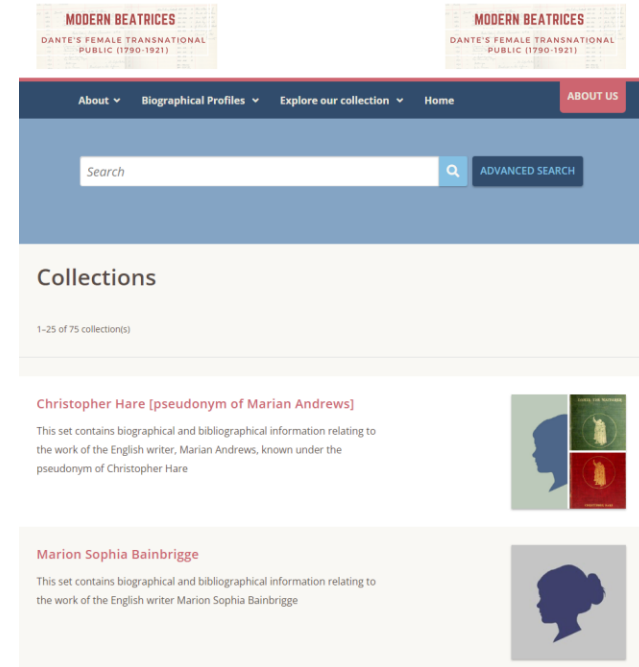
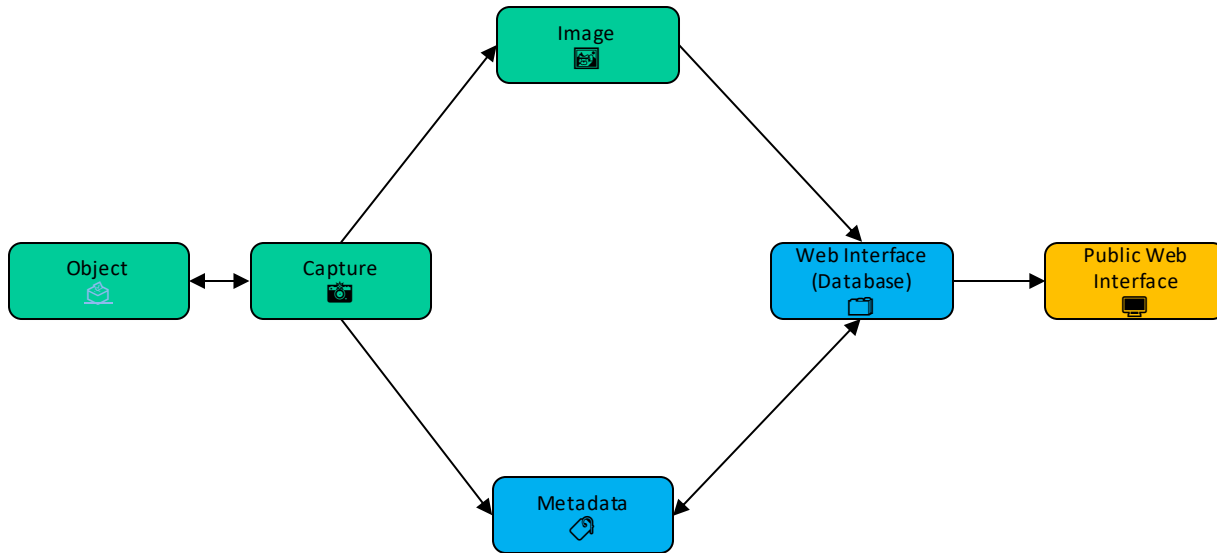
[Dig-ed-cat](#)

The screenshot shows the website for 'MODERN BEATRICES DANTE'S FEMALE TRANSNATIONAL PUBLIC (1790-1921)'. The header includes navigation links: 'About', 'Biographical Profiles', 'Explore our collection', and 'Home'. A search bar is present with a magnifying glass icon and an 'ADVANCED SEARCH' button. Below the header, the main content area features a section titled 'Biographical Profiles' with three portrait images and their names: 'Boghen-Conigliani, Emma', 'Caldi-Scalcini, Alba Cinzia', and 'Dal Bo, Eugenia'. Below this is a section for 'Italian Women Writers' with a sub-section for 'British, American and Irish Writers', featuring four silhouette icons and their names: 'Ramsay, Claudia Hamilton', 'Phillimore, Catherine Mary', 'Oliphant, Margaret', and 'Kavanagh, Marianne'. The top of the page has two small book covers with the title 'MODERN BEATRICES'.

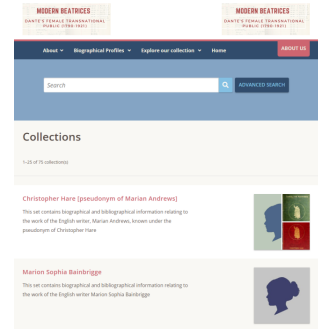
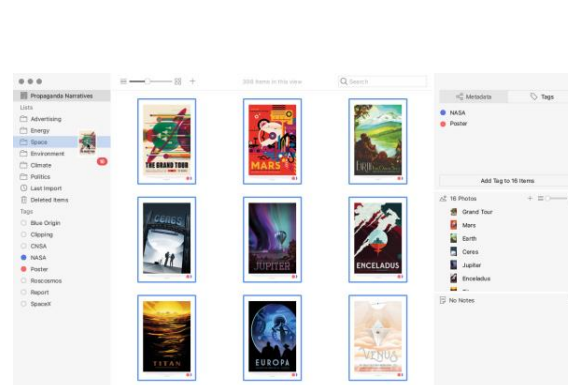
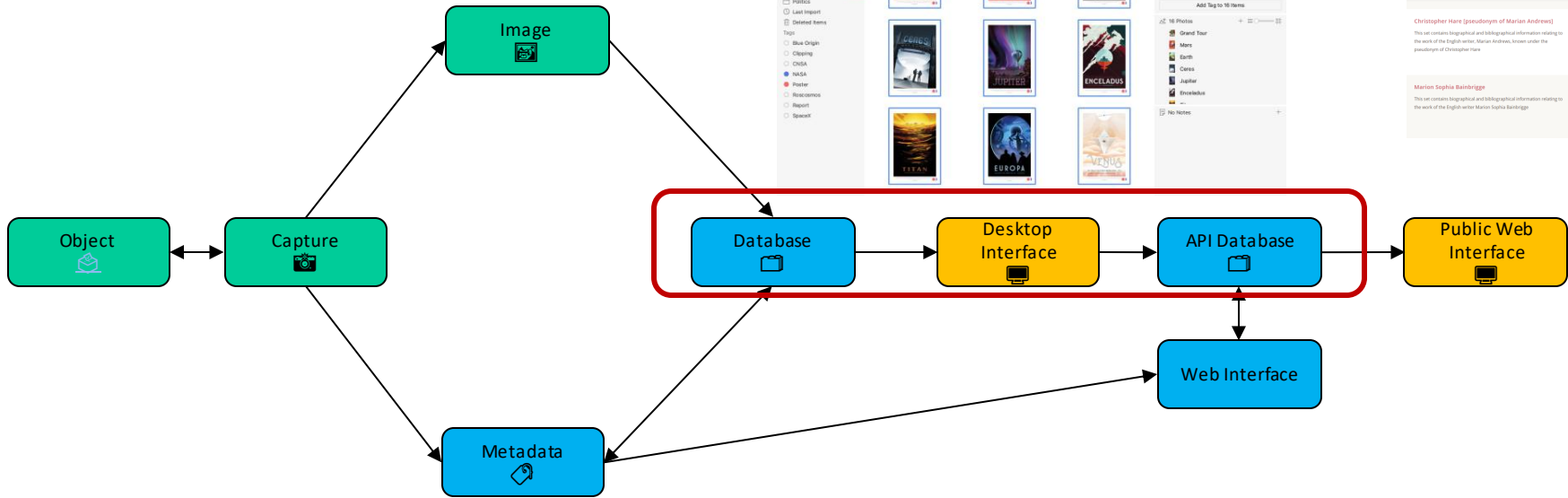
Exhibition workflow: Tropy



Exhibition workflow: Omeka S

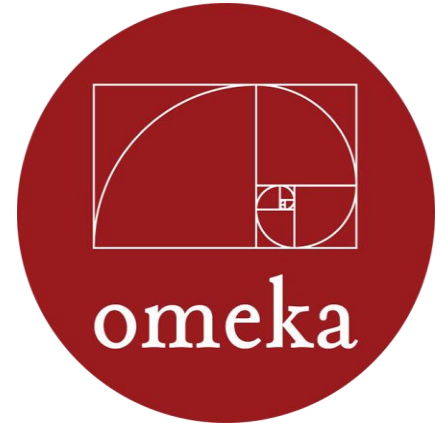


Exhibition workflow: Tropy + Omeka S



Omeka S + Tropy

- ▶ Create a local image archive with robust metadata
- ▶ Create online archives using Omeka S. We can provide Omeka S installs and guidance.
 - Form an online story around your data and research
 - Lots of different plugins!
 - Shape an academic or users journey through your work



Other Database Tools

- ▶ Palladio: Upload and database-ify spreadsheets in seconds

- <http://hdlab.stanford.edu/palladio/> ⚠
- Free online tool



- ▶ Nodegoat: Store and visualise interconnected relational humanities data online


- <https://nodegoat.net/> ⚠
- Free account



Network analysis

Explore relationships in data

OSU.EDU Help BuckeyeLink Map Find People Webmail Search Ohio State

 **THE OHIO STATE UNIVERSITY**
UNIVERSITY LIBRARIES

RESEARCH COMMONS
Connect. Collaborate. Contribute.

[Ohio State University Libraries](#) / [Research Commons](#) / [Digital Humanities](#)

Digital Humanities

Selected resources for digital humanities praxis and pedagogy

- Digital Humanities
- DH Pedagogy
- Project Development
- Collections & Exhibits
- Data Analysis
- Network Analysis**
- Mapping & Geospatial Analysis
- Multimodal Publishing
- Scholarly Editing & Text Encoding
- Temporal Analysis
- Text Analysis
- Visualization

Resources

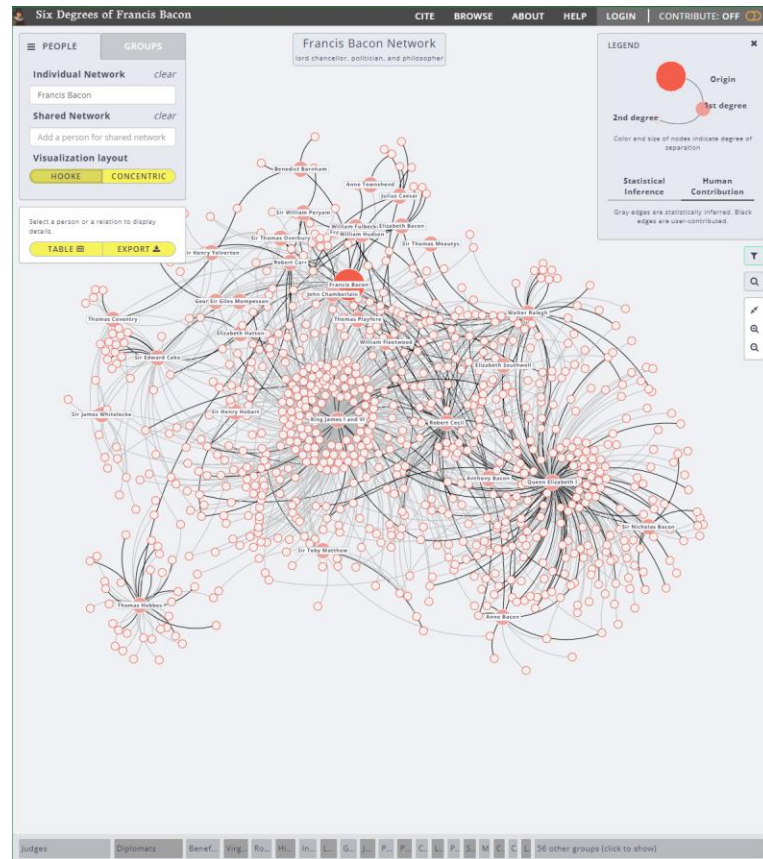
[Books@OSUL](#) [Readings](#) [Sites](#) [Tool-Specific](#) [Projects](#)

- [Six Degrees of Francis Bacon](#)
Christopher Warren, Daniel Shore, Jessica Otis, Scott Weingart, and John Ladd
- ["Network Visualization: Mapping Shakespeare's Tragedies"](#)
Martin Grandjean
- [Kindred Britain](#)
Nicholas Jenkins, Elijah Meeks and Scott Murray

Tools

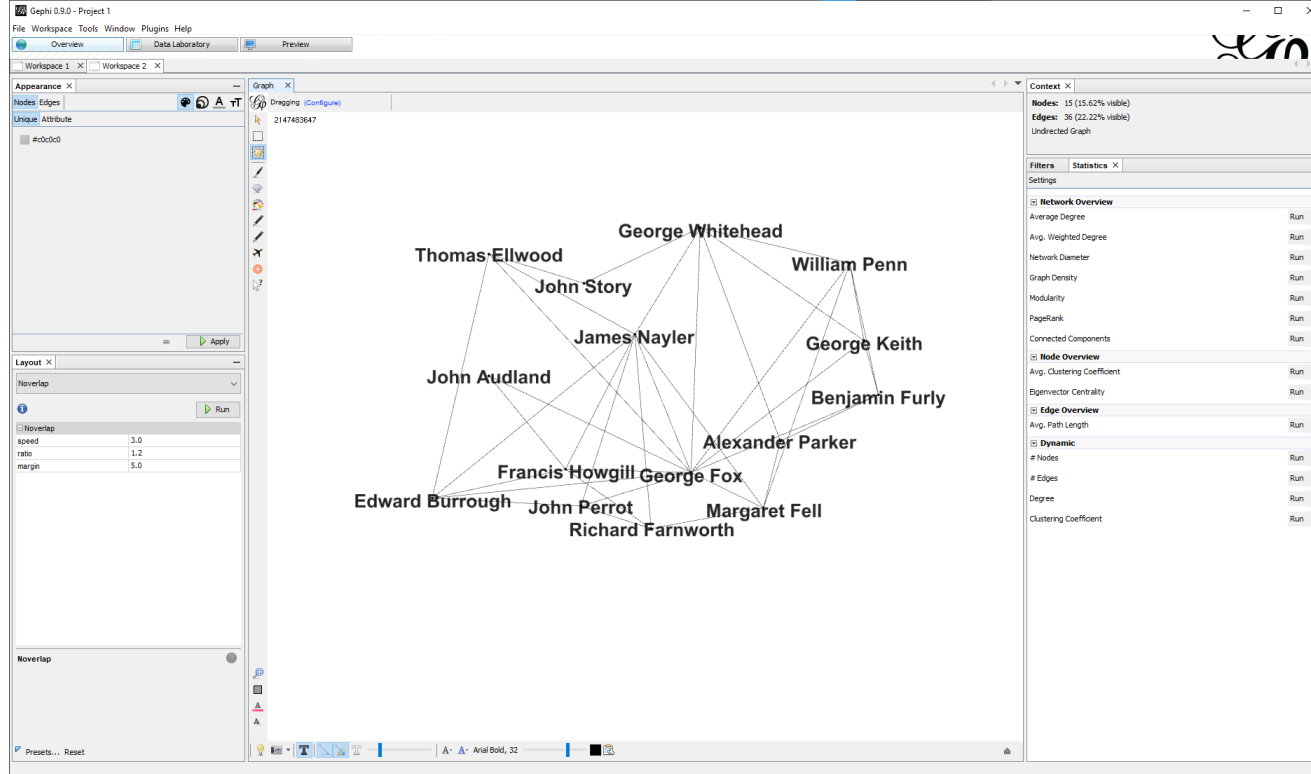
- Cytoscape
- Gephi (visualization)
- Graph Commons
- Igraph
- Netlytic
- NodeXL

[Ohio State Network Analysis resources](#)



[Six Degrees of Francis Bacon](#)





Quakers dataset used in CDI networking workshop

Mapping

Spatial turn

“Scholars in the humanities have a long tradition in the investigation of spatial theory and methods, as well as on the analysis of space and place within its multiple disciplines. Although technologies such as Geographic Information Systems have been used in Humanities fields such as Archaeology for over four decades, it has been only in recent years that the development of new technologies and methods have led to the emergence of the field that is now more commonly known as the Spatial Humanities, often also referred to as GeoHumanities.”

Murrieta-flores & Martins (2019)



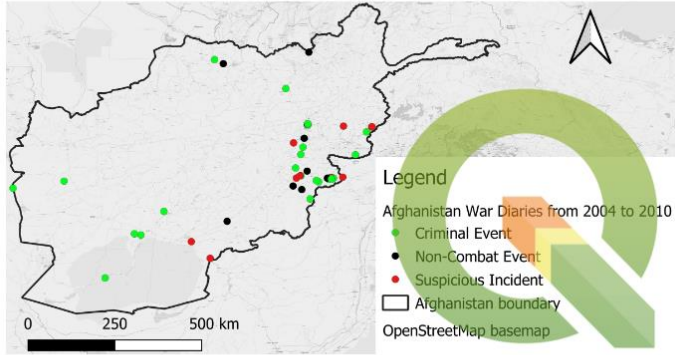
Spatial Examples

- ▶ [Crossing the Mediterranean Sea by Boat](#)
 - Interactive map stories of migration journeys
- ▶ [Tourism in the Lake District in the 18th Century](#)
 - Static maps representing two famous accounts of the English Lake District.



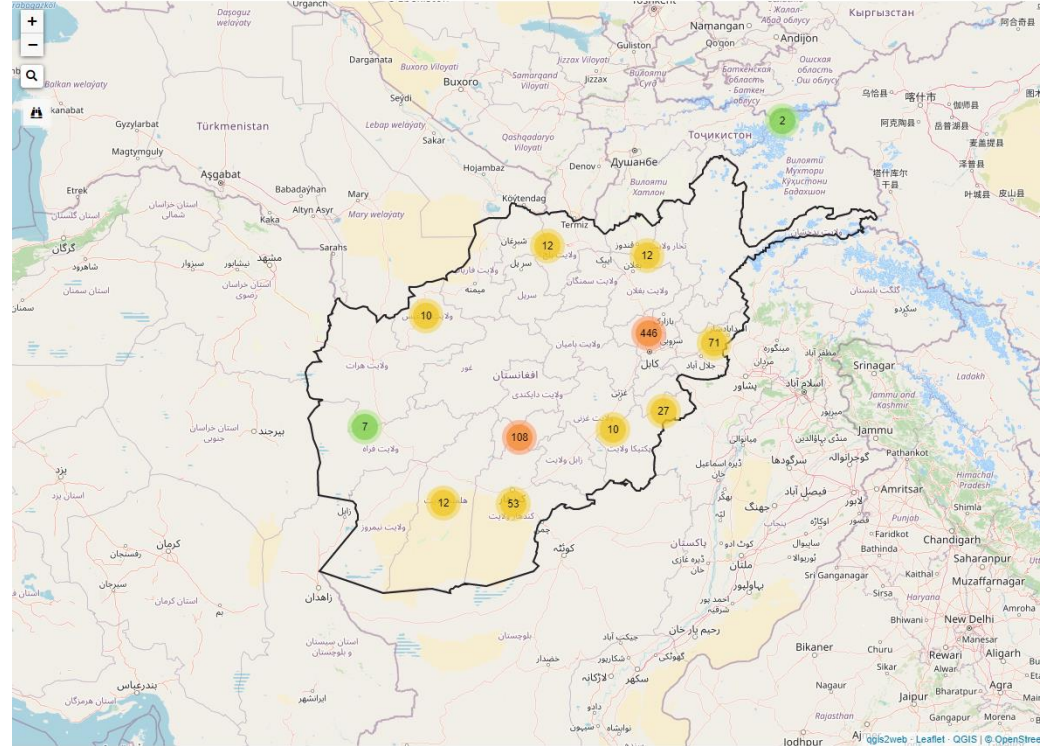
How to create a basic map for print and web using QGIS

DOI: [10.5281/zenodo.6372284](https://doi.org/10.5281/zenodo.6372284)



By Dr Godwin Yeboah, IDG Technology for Research, Client Experience, Information & Digital Group (IDG), University of Warwick, UK.

CDI workshop: How to create a basic map for print and web using QGIS



Time

Knightslab Timeline

- ▶ <https://timeline.knightlab.com/>
- ▶ Example:
 - [Politics, Popular Culture and the 2011 Egyptian Revolution](#)
- ▶ Free online tool. ⚠ uses google docs for data source.

The image shows a screenshot of the Knightlab Timeline website. At the top, there is a navigation bar with links for 'Projects', 'Class', 'Device Lab', 'Posts', 'Community', and 'About'. The main heading is 'Timeline' with a 'JS' badge, followed by the tagline 'Easy-to-make, beautiful timelines.' and a green 'Make a Timeline' button. Below this is a navigation menu with 'Overview', 'Examples', 'Make a Timeline', and 'Help'. A 'Notes' section mentions a change in Google Sheets permissions as of November 18, 2020. The main content area features a large banner for 'WOMEN IN COMPUTING' with a background image of a woman working on a computer. Below the banner is a sample timeline interface with a yellow header and a timeline axis from February to March 2011. A specific event is highlighted on February 17, 2011, titled 'TAHRAIR MONOLOGUES: THE IDEA'. The event description states: 'This is a short video explaining the idea behind Tahira Monologues, a storytelling project founded on 17 February 2011. Initially, the project aimed to preserve the memory of the 15 days of Tahrir Square through encouraging people to share their personal stories. However, over time, the project addressed the ongoing struggles of the revolution.' There are 'More' and 'Documents included' buttons at the bottom of the event card.

Opportunities at Warwick



warwick.ac.uk/cdi

[Teams](#)

[Twitter](#)



CDI Training

- ▶ **Digital Editions:** Introduction to TEI. [Materials](#)
- ▶ **Mapping:** How to create a map for print and web using QGIS. [Materials](#)
- ▶ **Networks:** Networks: A skills workshop. [Materials](#)



Alan Turing institute

- ▶ 2024/5 [Enrichment Scheme](#)
- ▶ Themes:
 - [AI for Arts](#)
 - [Data ethics](#)
 - [Humanities and Data Science](#)



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Terras, M., Nyhan, J., & Vanhoutte, E. (2016). *Defining Digital Humanities: A Reader*. Routledge.

