

Kicking started the journey of Digital Scholarship/Humanities within the University Libraries

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Key takeaways

- Basic overview of DS
- Know common methodologies and their functions
- Identify supporting components from the HKU Libraries
- Evaluate the needs when planning a digital projects
- Introduce library projects and collaborations

What are the basics of DS?

What is DS & DH?

Digital Scholarship (DS) encompasses a wide range of scholarly activities in higher education institutions that apply and use digital evidence, tool, and methodology to ask new questions and produce new computational forms of output across disciplines. (Peace et al., 2010; Rumsey, 2011)

Digital Humanities (DH) is an academic field to extend traditional research, teaching, and publishing with the incorporation of digital resources and computational methods to the study of the humanities. (Terras, 2011)

Common activities of DS

- 3D modelling and printing
- Computational textual analysis
- Data Visualization
- GIS and digital mapping
- Distant reading
- Close reading
- Database development
- Creation of web platforms, software, or tools
- Digital exhibits
- Digital publishing
- Digital storytelling
- Digital pedagogy & instruction

Will DS help you?

Benefit from digital methods

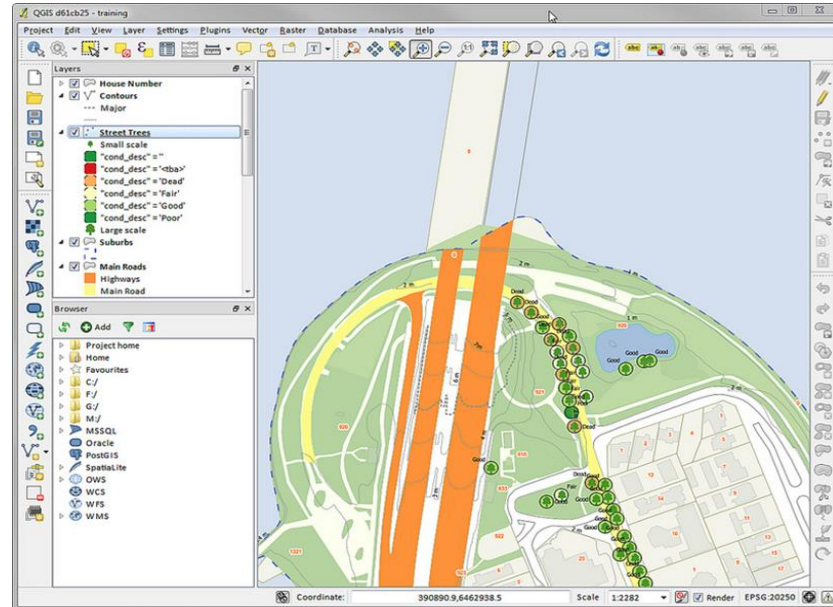
- Turning evidence into digital form allows engaging with traditional scholarship in innovative ways.
- Common methods enable scholars and students to conduct research and present scholarship in a variety of modes, including temporal, spatial, textual, immersive, and exhibitive.
 - Data Visualization
 - Mapping
 - Textual analysis
 - Digital Exhibits

Data visualization

- Data visualization is the graphical representation of data, which researchers use to identify patterns, trends, outliers, etc.
- Types of visualization include graphs, plots, maps, and other graphics like network visualizations.
- Common tools: D3, Gephi
- Example of charts: <https://observablehq.com/@d3/gallery>

Mapping

- Geographic Information System (GIS) can be used for visualizing kinds of data including statistics, spatial and geographic areas
- Common tools: ArcGIS, QGIS



Mapping

- Building an interactive map allows users to click on individual features to discover more by performing actions such as taking measurements, searching for features
- Common tools: Leaflet, Mapbox



Textual analysis

- Approaches can be quantitative (e.g., word counting) and qualitative (e.g., topic modeling and sentiment analysis), often relying on natural language processing (NLP), a field that explores the interactions between computers and human (natural) languages.
- NLP helps in parsing, tokenization, sentence segmentation, named entity extraction, and part of speech tagging.
- Common tools: NVivo, voyant, Apache OpenNLP, OpenAI GPT-3

Digital Exhibits

- Digital exhibits are a form of online exhibit that like physical exhibits, use digital objects to tell stories and demonstrate ideas. Often used in historical, artistic, or archaeological research.
- Digitization is a common process of taking a physical source and making a digital version of it for preservation, access, or analysis.
- Targets can be images, video, audio, and also 3D model. 3D modeling also allows for the creation of virtual reality experiences.
- Common tools: Omeka, WordPress

How does an idea fit in the Libraries' environment?

DS Services @ HKUL

- Aims to support digital initiatives creation for research, teaching, and learning
- Key components
 - Consultation
 - Partnership
 - Training

Partnership Workflow

Stage 1

Book a consultation with a librarian or direct contact the DS team

- To identify the opportunity for further collaboration
- To understand the technical specification for the project

Stage 2

Submit your partnership request with relevant information. Including project purpose, scope, task requested to support, and your project funding information.

Stage 3

The Libraries will make assessments of the project requirement and perform price estimations on tasks occupied by library resources

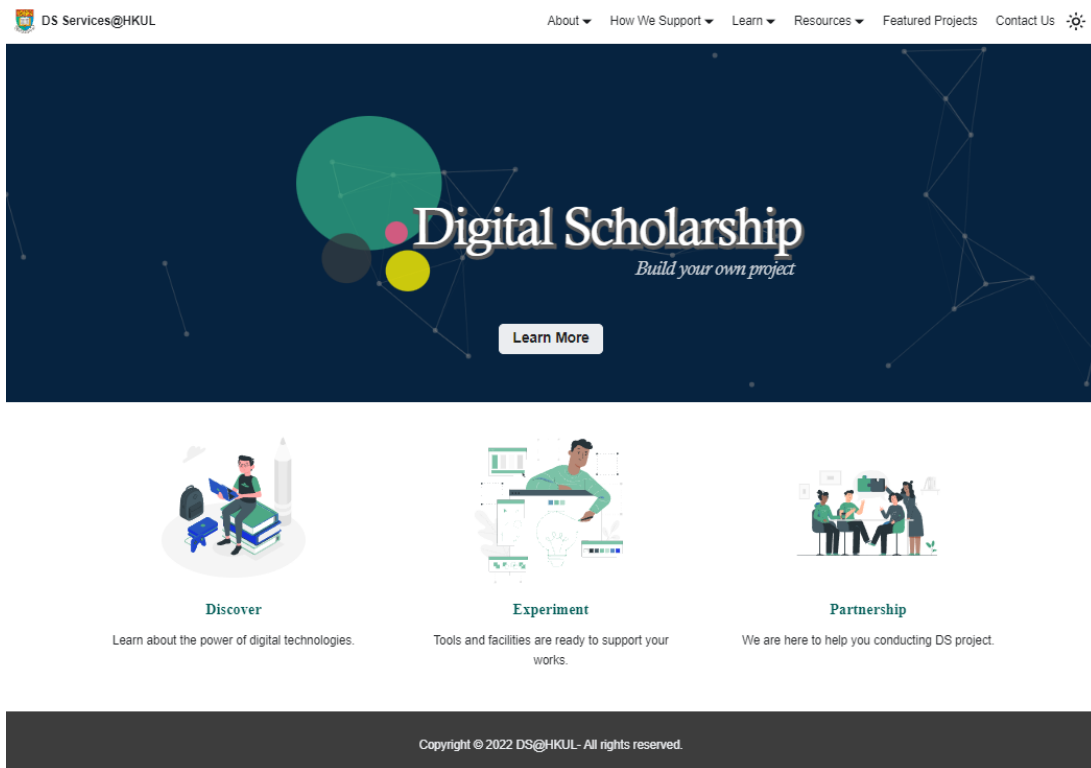
Stage 4

The Libraries will notice the assessment result to the user and provide a collaboration proposal if the application is successful. A notification will also be delivered for failure application with reason.

Reach us

Website: <https://dss.lib.hku.hk>

Email: dss@lib.hku.hk



Key Libraries Resources

- Space
- IT infrastructure
- Software and tools
- Digital collections
- Learning materials

How do you know if DS is right for you?

Evaluation Guideline

- Professional associations for the evaluation of Digital Humanities and Scholarship.
 - American Historical Association. ["Guidelines for the Professional Evaluation of Digital Scholarship by Historians."](#)
 - Modern Language Association. ["Guidelines for Evaluating Work in Digital Humanities and Digital Media"](#)
 - College Art Association and the Society for Architectural Historians. ["Guidelines for the Evaluation of Digital Scholarship in Art and Architectural History."](#)
 - The Association for Computers and the Humanities. ["Guidelines for Assessment of Digital Scholarship in Tenure and Promotion"](#)

Peer review

- Journals and some digital networks with reviews for digital projects, dataset, archive, etc
 - [NINES: Nineteenth-century Scholarship Online](#)
 - [Manuscript Studies](#)
 - [The Public Historian](#)
 - [Journal of American History](#)
 - [American Quarterly](#)
 - [Digital Philology](#)
 - [RIDE: A review journal for digital editions and resources](#)

Evaluate at the beginning

- Summary of the project
- Target audience & Stakeholders
- Content Management and publishing platform
- Metadata preparation
- Digital tools
- Space and storage
- Copyright and permissions
- Sustainability and Preservation
- Publicity
- Funding

The checklist: <https://dss.lib.hku.hk/getting-started/start-to-plan>

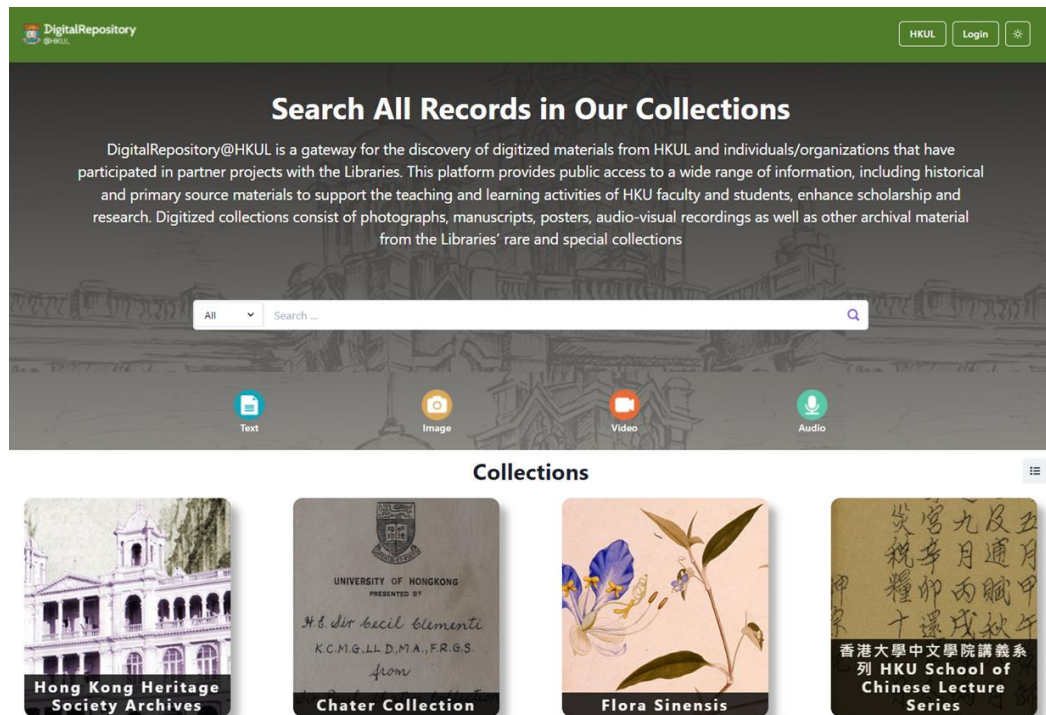
Example Libraries' projects and collaborations

Digital Repository @HKUL

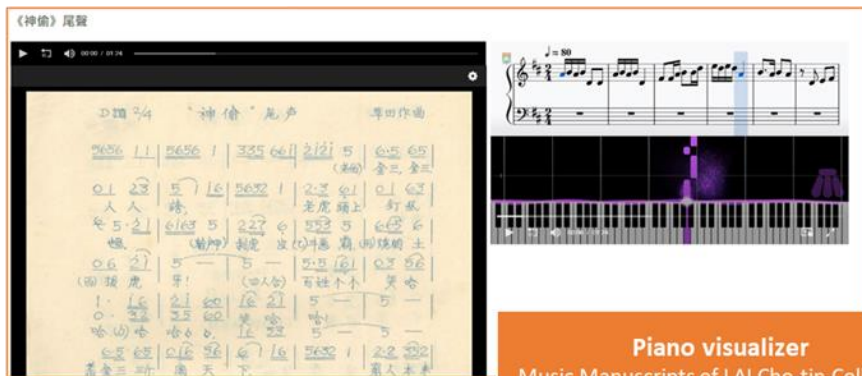
- open-access platform
- discovery of digitized materials and collections
- currently contains:
 - 24 unique digital collections
 - 150 thousand titles
 - 4 million digital objects, including text, image, video, and audio

Website:

<https://digitalrepository.lib.hku.hk/>



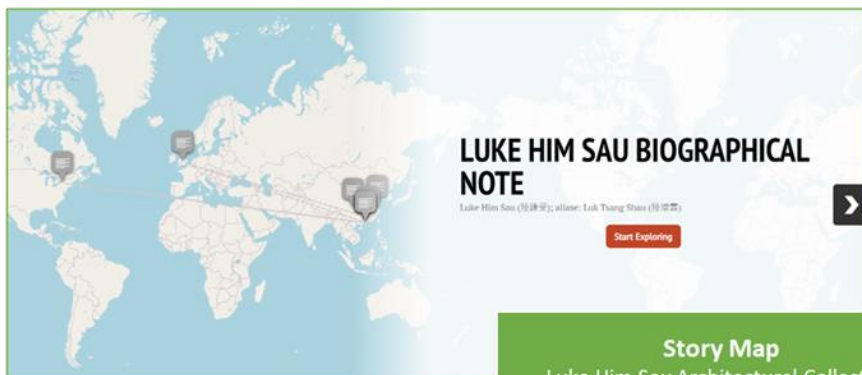
Digital Repository @HKUL – data visualization



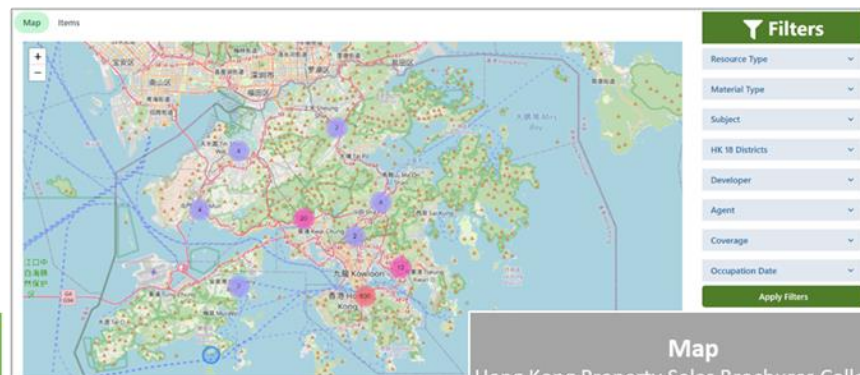
Piano visualizer
Music Manuscripts of LAI Cho-tin Collection



Timeline
Hong Kong Image Database >
Prominent Figures sub-collection



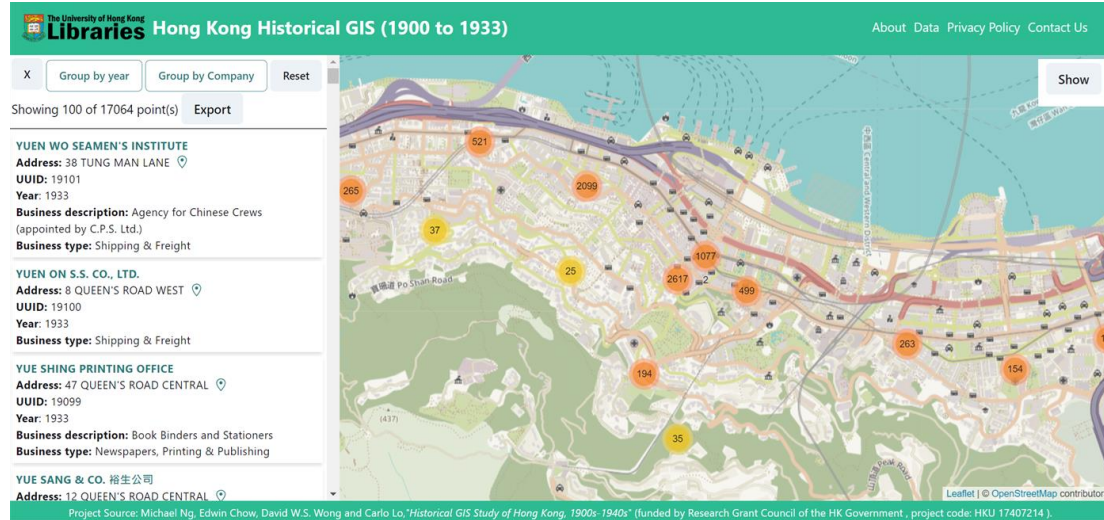
Story Map
Luke Him Sau Architectural Collection



Map
Hong Kong Property Sales Brochures Collection

Hong Kong Historical GIS (1900 to 1933)

- collaboration with the Faculty of Law
- spatial distributions and visualization of commercial activities on Hong Kong Island



Website:

<https://hkh-gis.lib.hku.hk/>

The Gift from Lanmama

- digital exhibition
- collaboration with the Faculty of Education and Guizhou Lanmama Museum
- browse by items, collections, exhibits and map

Website:

<https://lanmama.lib.hku.hk/>

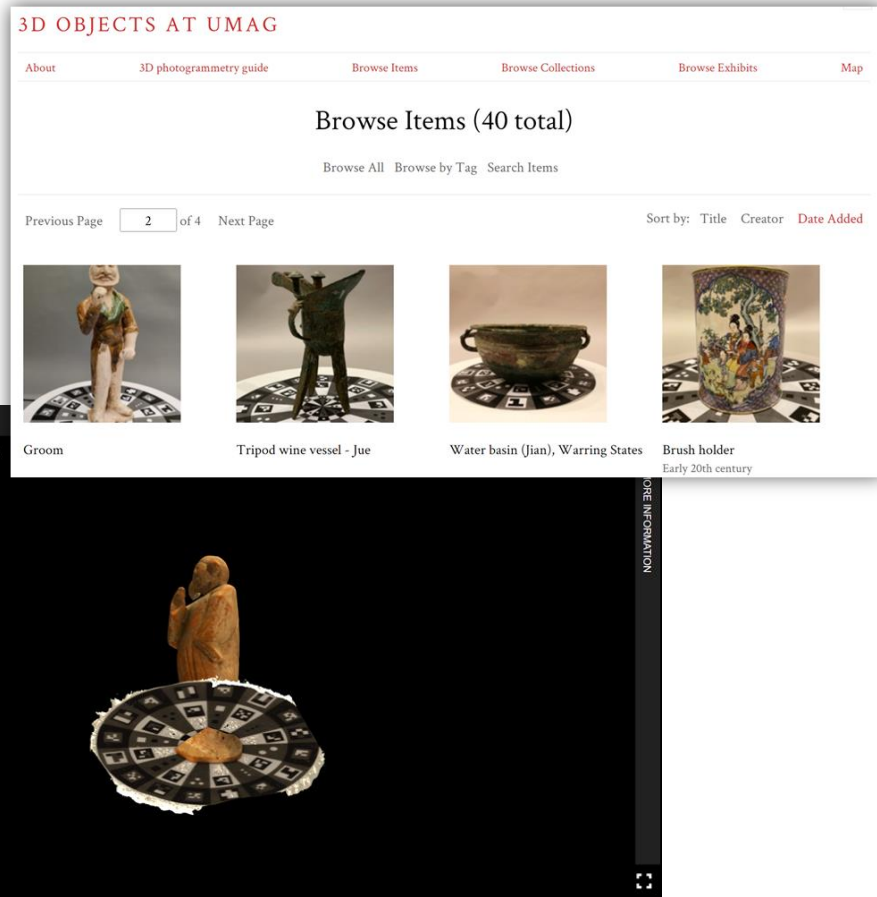


3D Objects at UMAG

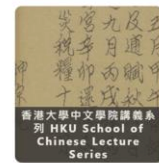
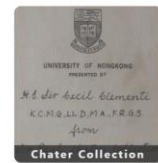
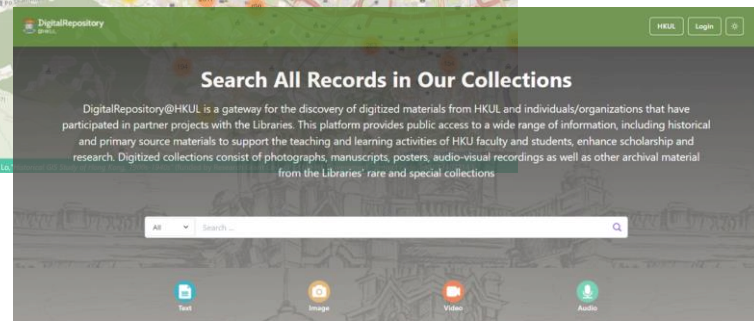
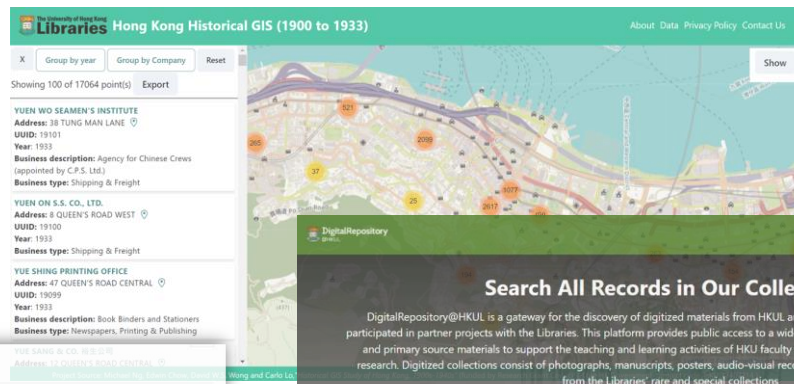
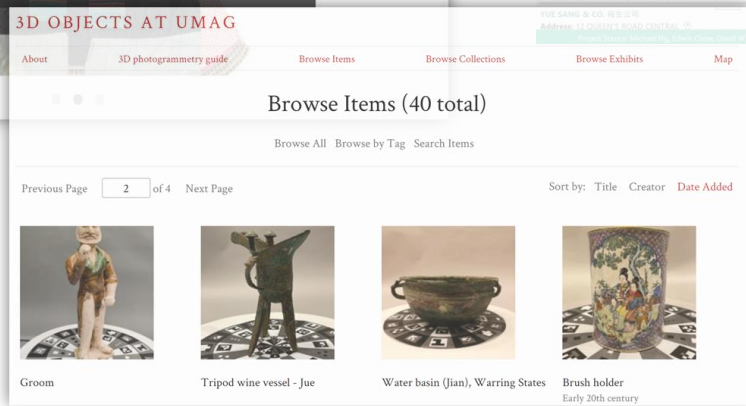
- digital exhibition
- collaboration with a common course at HKU
- exhibits digitized 3D models from the University Museum and Art Gallery
- a new way to engage and interact with the 3D models

Website:

<https://cchu9080.lib.hku.hk/>



We are ready to explore and experiment with new forms of technological tools and techniques with you!



References

Pearce, Nick & Weller, Martin & Scanlon, Eileen & Kinsley, Samuel. (2010). Digital Scholarship Considered: How New Technologies Could Transform Academic Work. in education. 16. 10.37119/ojs2010.v16i1.44.

Rumsey, A. S. (2011). Scholarly Communication Institute 9: New-Model Scholarly Communication: Road Map for Change. *Charlottesville, VA: University of Virginia Library*.

Terras, M. (2011). "Quantifying Digital Humanities." Retrieved from <http://www.ucl.ac.uk/infostudies/melissa-terras/DigitalHumanitiesInfographic.pdf>