

DARIAH Virtual Annual Event 2020: Scholarly Primitives

Unus pro omnibus!
Generic research tool for all Humanities disciplines.

André Kilchenmann | Flavie Laurens

Data and Service Center for the Humanities (DaSCH)
University of Basel

In the next 10 Minutes...

Our Backstory

Data in the Humanities: a heterogeneous blend

DaSCH Service Platform

Next steps

Our Backstory

Data and Service Center for the Humanities → dasch.swiss

- ▶ Operating a platform for humanities research data
- ▶ Ensuring access to this data
- ▶ Networking of data with other databases is to be promoted (linked open data)
- ▶ Creating added value for research and the interested public



Our Backstory

The digital equivalent of Warburg's Mnemosyne



Our Backstory

The digital equivalent of Warburg's Mnemosyne



Data in the Humanities: a heterogeneous blend

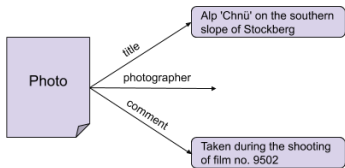
Projects from history, art history, media, music and film studies, etc.

- ▶ Incunabula Basiliensis: Books
- ▶ Photo collections: Photographs
- ▶ Bernoulli Euler: Books, notes and mathematical formulas
- ▶ Lexicon Iconographicum Mythologiae Classicae (LIMC): Encyclopedia
- ▶ Archive of the Swiss Society of Folklore: Photographs, moving images, magazines
- ▶ PhD projects from all disciplines in the Humanities

Data in the Humanities: a heterogeneous blend

Do various projects need different databases? RDF as a flexible solution

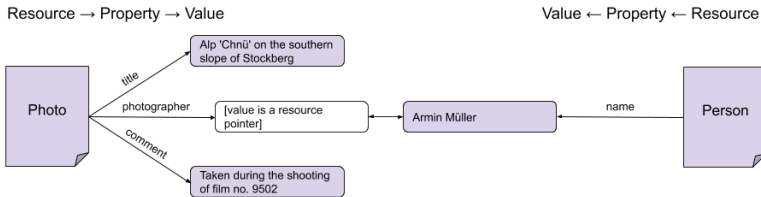
Resource → Property → Value



Data is represented as “triplet”

Data in the Humanities: a heterogeneous blend

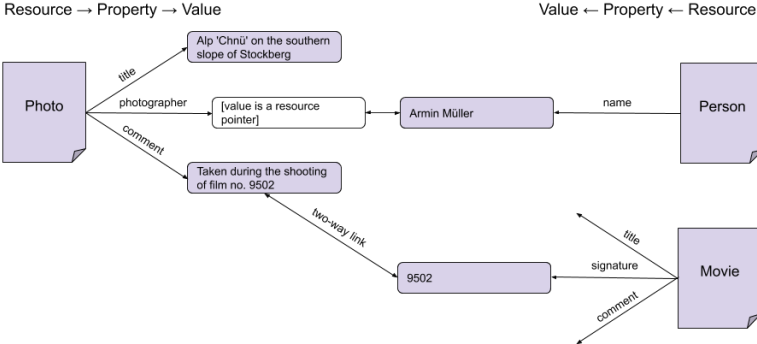
Do various projects need different databases? RDF as a flexible solution



Connect properties and extend the data

Data in the Humanities: a heterogeneous blend

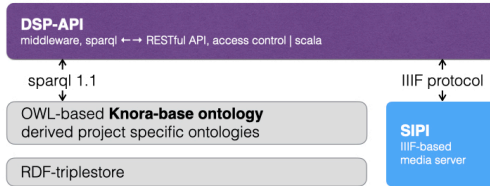
Do various projects need different databases? RDF as a flexible solution



Each project can have it's own ontologies

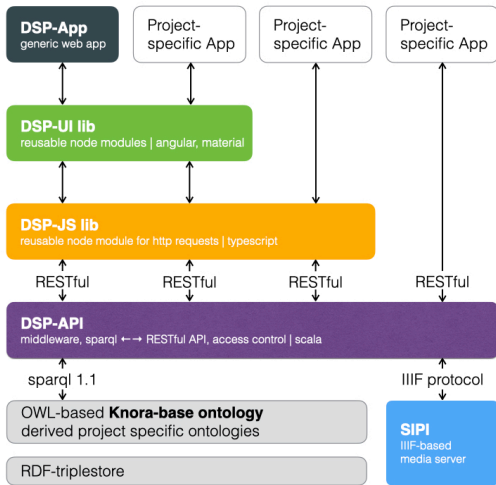
DaSCH Service Platform

Backend: API with RDF triplestore and IIIF media server



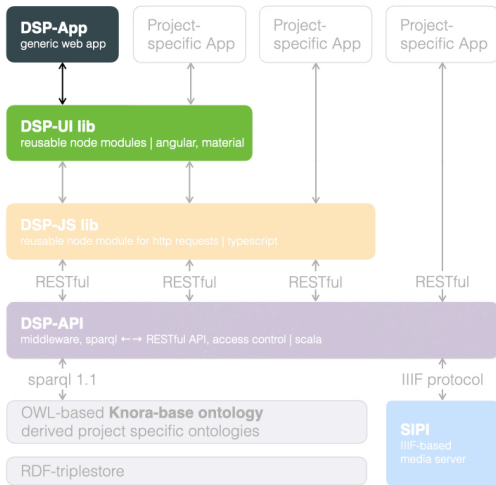
DaSCH Service Platform

Frontend: Different apps can be built and use the same data



DaSCH Service Platform

Generic web application



DaSCH Service Platform: Generic web application

Easy-to-use ontology editor

Define the metadata for resource class

Photograph

⋮	Property label *	Property type *	🗑️
1)	Title	Text: Short ▾	
	<input type="checkbox"/> Multiple values?	<input type="checkbox"/> Required field?	Reset
⋮	Property label *	Property type * Select reresource class	🗑️
2)	Photographer	Link: Other resource ... ▾ Person ▾	
	<input type="checkbox"/> Multiple values?	<input type="checkbox"/> Required field?	Reset
⋮	Property label *	Property type *	🗑️
3)	Comment	Text: Paragraph ▾	
	<input checked="" type="checkbox"/> Multiple values?	<input type="checkbox"/> Required field?	Reset +

Back **Submit**

DaSCH Service Platform: Generic web application

Three different ways to search data

The image shows a search interface for the DaSCH Service Platform. At the top, there is a search bar with a dropdown menu for 'Filter by project' set to 'All Projects', a search input field, and two buttons: 'advanced' and 'expert'. Below the search bar are two panels:

Advanced search

Select an Ontology
The incunabula ontol... ▾

Select a Resource Class (option...
Book ▾

Select Properties Comparison Operator text value
Creator ▾ matches ▾ Brant

+ -

Reset Search

Expert search

Write your GQL search query

```
PREFIX knora-api: <http://api.knora.org/ontology/knora-api/v2#>
PREFIX incunabula: <https://api.dasch.swiss/ontology/0803/incunabula/v2#>

CONSTRUCT {
  ?book knora-api:isMainResource true .
  ?book incunabula:title ?title .
} WHERE {
  ?book a incunabula:book .
  ?book incunabula:title ?title .
}
```

Reset Search

DaSCH Service Platform: Generic web application

Search results and resource viewer

The screenshot displays the DaSCH Service Platform interface. At the top, there is a search bar with the text "All Projects" and a search icon. Below the search bar, the interface is divided into two main sections: a list of search results on the left and a detailed resource viewer on the right.

Search Results (Left Panel):

- Page 1r**
Description: Textbeginn, Vornede, grosse handschriftliche Initiale "I" in Rot (erstreckt sich vertikal über die Hälfte des Blattes), "Ich Otto von diemringen ein I Thuo(j)hnerre zu(o) Metz in Lothorringen, han disse bu(o)ch verwendet uß welsch und uß latin zu titisch [...]
- Page o1v**
Description: Rückseite des Titelblatts. Holzschnitt: Ein Mönch sitzt vor einem Pult, auf dem ein offenes Buch liegt. Er hält einen "Löffel" in der rechten Hand und wendet sich drei weiteren Mönchen zu, die rechts auf dem Boden hocken. Die Szene wird von einer Rahmenarc...
Comment: Bei diesem Holzschnitt, der sich deutlich vom Rest der Bilder im Buch unterscheidet, handelt es sich um eine Illustration aus einer Merkmalslegende, die als Blockbuch gedruckt wurde. Unten links sind Spuren von Buchstaben zu erkennen, die stehen bleiben, al...
- Page q1v** (highlighted)
Description: Beginn Kapitel 107. Holzschnitt zu Kap. 107: Vom Lohn der Weisheit Ein junger Mann in weitem pelzgefütterten Mantel steht in einer Landschaft vor einem Gelehrten, der ein offenes Buch vor sich hält. Am Himmel erscheinen eine Krone und eine Narrenkappe. Die Krone steckt in einem senkrechten, die Kappe in einem schräg gestellten Stab, 11,5 x 8,3 cm.

Resource Viewer (Right Panel):

This resource belongs to the project **incunabula** Created by root@it on Mar 2, 2016

q1v Hide empty properties Citation Link

Page identifier	q1v
is a part of	[Das] Narrenschiff (lat.)
Description	Beginn Kapitel 107. Holzschnitt zu Kap. 107: Vom Lohn der Weisheit Ein junger Mann in weitem pelzgefütterten Mantel steht in einer Landschaft vor einem Gelehrten, der ein offenes Buch vor sich hält. Am Himmel erscheinen eine Krone und eine Narrenkappe. Die Krone steckt in einem senkrechten, die Kappe in einem schräg gestellten Stab, 11,5 x 8,3 cm.
Sequence number	245
Citation/reference	■
Comment	Schramm, Bd. 22, Abb. 1211. ■
Original filename	IBB_1_002758751_0245.tif
Randleistentyp links	■
Randleistentyp rechts	■
Transkription	■
has image file	http://0.0.0.0:1024/0803/incunabula_0000004100.jp2/full/1968,2645/0/default.jpg
has Standoff Link to	■
has incoming link	■

DaSCH Service Platform: Generic web application

Data exchange: Export results as CSV, XML, JSON and share resources, search results or search filters with project collaborators

Search & Find — S-U-ID

http://euid.app.dasch.ethz.ch/search

Found 174 results

Filter by project Search

List Grid Table Sort Export

First property as Title
just a few properties here as a preview click on the element to open it
Last changes on dd. mm. yyyy hh:mm by user View the history

First property as Title
just a few properties here as a preview click on the element to open it
Last changes on dd. mm. yyyy hh:mm by user View the history

First property as Title
just a few properties here as a preview click on the element to open it
Last changes on dd. mm. yyyy hh:mm by user View the history

First property as Title
just a few properties here as a preview click on the element to open it
Last changes on dd. mm. yyyy hh:mm by user View the history

First property as Title
just a few properties here as a preview click on the element to open it
Last changes on dd. mm. yyyy hh:mm by user View the history

3
Sources Selected

Clear Selection

DaSCH Service Platform: Generic web application

Select multiple resources and compare them

The screenshot displays a web browser window titled "Compare view - S-U-I-D" with the URL http://suid.app.dasch.swiss/compare/sources/ri_1/ri_2/ri_3/ri_4/ri_5. The interface features a "Compare" header with a search bar and a user profile icon. Below the header, four source panels are visible, each labeled "Source XYZ":

- Top-left panel:** A DVD cover for "Night Mail" from the "BBC Classic Collection". The cover features a red steam locomotive in a tunnel. The text includes "NIGHT MAIL", "THE BBC CLASSIC COLLECTION", "DVD", and "BBC". Below the cover is the label "Night Mail (Poster)".
- Top-right panel:** A black and white video frame showing a steam locomotive in a tunnel. Below the frame is the label "Night Mail (Making of...) Scene 5".
- Bottom-left panel:** A poster for "Night Mail" featuring a stylized black locomotive silhouette against a blue background with a yellow light. The text includes "NIGHT MAIL" and "Night Mail (Poster)".
- Bottom-right panel:** Another poster for "Night Mail" with a similar design to the bottom-left panel. Below the poster is the label "Night Mail (Poster)" and several lines of placeholder text.

Next steps

- ▶ More than 40 projects are queuing to get access to DaSCH Service Platform
- ▶ Implementing missing features
- ▶ Going live in February 2021

Questions? Contact us!

The code of our tools is open source and available on GitHub:
github.com/dasch-swiss

Get more information about us on:
dasch.swiss

a.kilchenmann@dasch.swiss | flavie.laurens@dasch.swiss