



# The DARIAH-DE Data Federation Architecture as a highway to FAIR data

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# Structure

1. Introduction: FAIR data management and the DFA
2. The DFA in detail
  - What is it?
  - How can it be used?
3. How is the DFA a highway to FAIR data management?



# 1. Introduction: FAIR data management and the DFA

## FAIR DATA PRINCIPLES

AH!



FINDABLE



ACCESIBLE

HOW DO YOU  
OPEN A .XZQ FILE?



INTEROPERABLE



REUSABLE

# The DFA in detail: What is it?

## 1. Publish and research data

- Publikator
- Repository

## 2. Describe collection

- Collection Registry

## 3. Model data

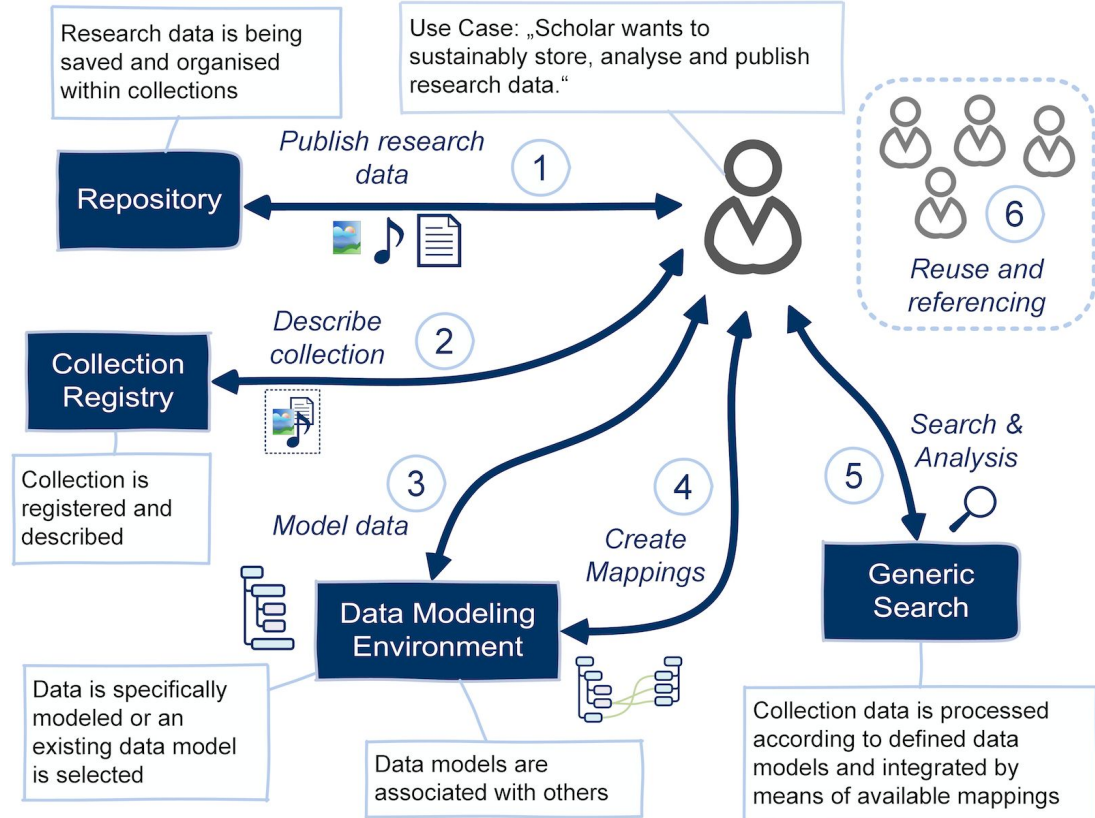
- DME

## 4. Create mappings

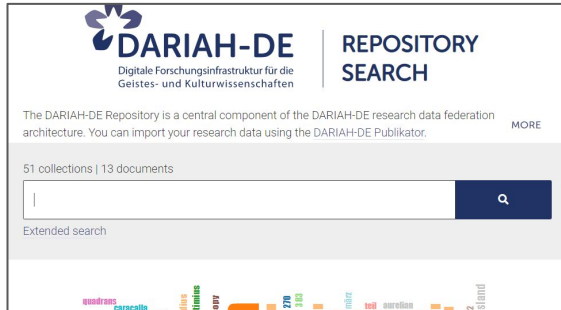
- DME

## 5. Search & analysis

- Generic Search



# The DFA in detail: How can it be used?



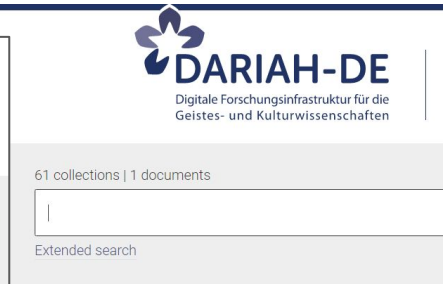
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Digitale Forschungsinfrastruktur für die Geistes- und Kulturwissenschaften

## REPOSITORY SEARCH

The DARIAH-DE Repository is a central component of the DARIAH-DE research data federation architecture. You can import your research data using the DARIAH-DE Publikator. [MORE](#)

51 collections | 13 documents

Extended search



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## GENERIC SEARCH

61 collections | 1 documents

Extended search



**DARIAH AAI** AUTHENTICATION AUTHORITY INFRASTRUCTURE

## DARIAH-DE: please confirm access permissions

The application DARIAH-DE Publikator needs to access data from DARIAH-DE Storage



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## COLLECTION REGISTRY

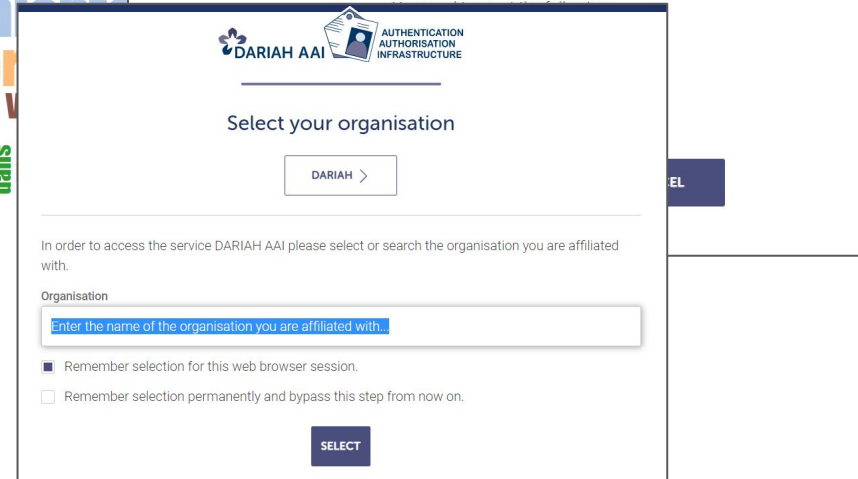
Collection Registry

- 227 collection descriptions
- 266 agents



Latest activity

- Klassifikation von Tragödien und Komödien bei Calderón de la Barca**  
AUG 13, 2021, 8:27 AM  
4E13EAD120FE38F20F327BE6BC3C2651  
5121BF7A5C6CA732609136E5E4D2D77  
7@DARIAH-EU  
 Collection saved
- Zotero-Workshop von CLARIAH-DE, 27./28.05.2021**  
JUN 23, 2021, 6:39 AM  
LUKASWEIMER@DARIAH-EU  
 Collection saved



**DARIAH AAI** AUTHENTICATION AUTHORITY INFRASTRUCTURE

## Select your organisation

[DARIAH >](#)

In order to access the service DARIAH AAI please select or search the organisation you are affiliated with.

Organisation

Remember selection for this web browser session.  
 Remember selection permanently and bypass this step from now on.

[SELECT](#)

– Manage Content and Edit Metadata

← to main view

➕ create subcollection

👁 show optional metadata



- Tool for uploading data/collections
- Organizing your research data
- Uploading data, regardless of file format
- Describing the data with metadata (Dublin Core standard)
- Intuitive GUI for time-saving workflow

Drop files to this field to upload or click to add files.

\* Title – Please provide mandatory metadata ⓘ +

\* Creator – Please provide mandatory metadata ⓘ +

\* Rights – Please provide mandatory metadata ⓘ +

Description ⓘ +

- Long-term repository for sustainable data storage
- Published data
- Indexed with persistent Identifiers (DataCite COI and Epic Handle)
- Data is searchable and findable now



The screenshot shows the DARIAH-DE Repository search interface. At the top right, the logo and text 'DARIAH-DE | REPOSITORY SUCHE' are visible. The main search area features a search bar with the text 'tei bible' and a search button. Below the search bar, there are tabs for 'Einfache Suche' (selected), 'Erweiterte Suche', 'Ressourcen', 'Kollektionen', 'Subjekte', and 'Terme'. The search results are displayed under the 'Ressourcen' tab, showing '20 von 20 Ressourcen'. Two results are visible, each with a placeholder image and the text 'Keine Vorschau verfügbar'. The first result is 'TEST BIBLE XML-TEI Bible' with a 'Detailseite' link. The second result is 'TEST ZUM TESTEN AUF DEM TESTSERVER: XML-TEI BIBLE IM DARIAH-REP 3 XML-TEI Bible' with a 'Detailseite' link. On the left side, there is a 'Suchoptionen' section with a checkbox for 'Erläuterungen anzeigen' and a slider for '20 Ergebnisse je Anfrage'. Below this is a 'Durchsuchte Kollektionen' section listing '19 Test zum Testen auf dem Testserver: XML-TEI Bible im DARIAH-Rep' and '1 Test Bible' from the 'KENOM Münzkabinett der Universität Göttingen, Archäologisches Institut, DARIAH-DE Datenföderationarchitektur Murks?'. At the bottom left, there is a logo for the 'Bundministerium für Bildung und Forschung'.

# Collection Registry



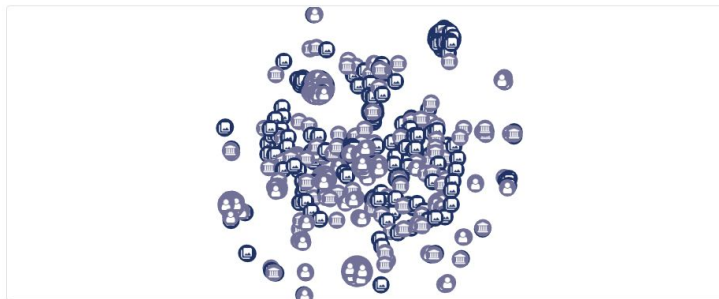
- Registry for published and unpublished collections
- Individual (further) description of your collection
- Metadata following the DARIAH Collection Description Data Model (DCDDM)



## COLLECTION REGISTRY

### Collection Registry

- [227 Sammlungsbeschreibungen](#)
- [266 Akteure](#)



### Letzte Aktivität

#### [Klassifikation von Tragödien und Komödien bei Calderón de la Barca](#)

13.08.2021, 08:27  
4E13EA0120FE3BF20F327BE6BC3C2651  
5121BF7A506CA732609136E5E4D2D77  
7@DARIAH.EU

Sammlung gespeichert

#### [Zotero-Workshop von CLARIAH-DE, 27./28.05.2021](#)

23.06.2021, 06:39  
LUKASWEIMER@DARIAH.EU

Sammlung gespeichert

GEFÖRDEBT VOM



Bundesministerium  
für Bildung  
und Forschung



# Generic Search

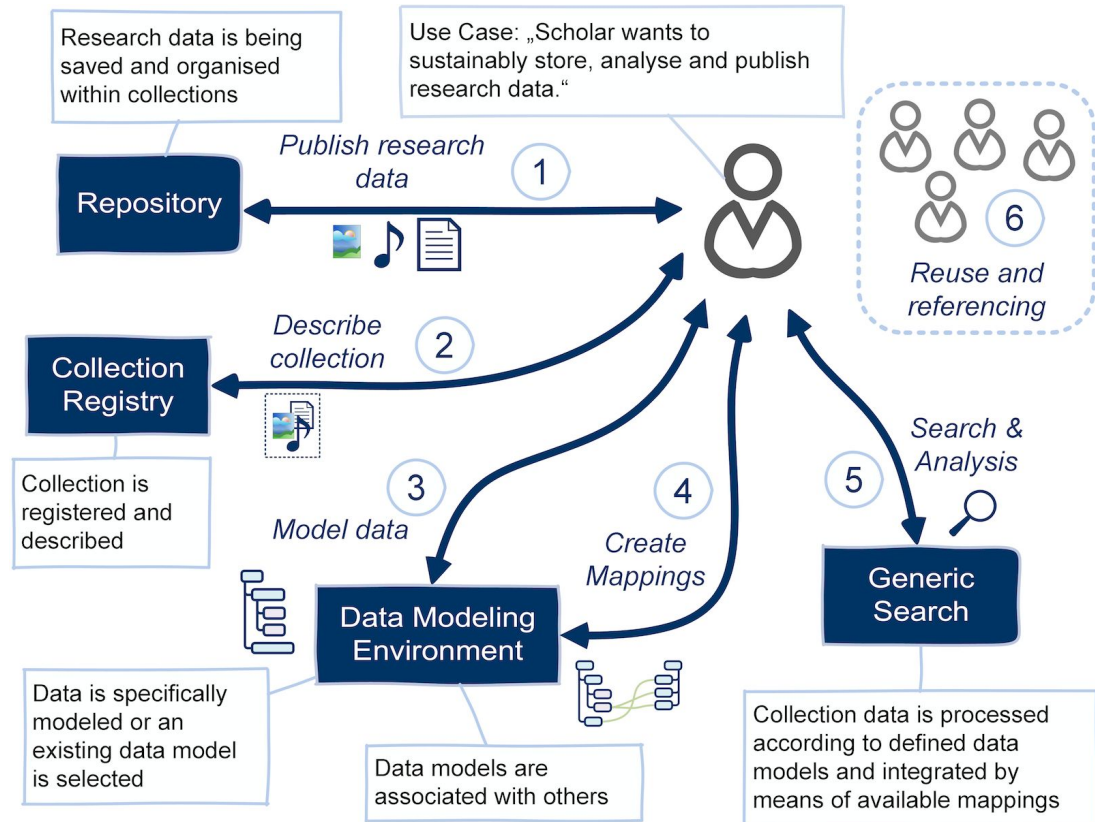
- Searches the Collection Registry
- Simple search and Extended search (for more detailed queries)



The screenshot shows the CLARIAH-DE search interface. At the top, the logo and the text "DARIAH-DE Digitale Forschungsinfrastruktur für die Geistes- und Kulturwissenschaften" are visible, along with a "SEARCH" button. Below this, the "Simple search" section features a search input field and a search button. To the left, the "Search options" panel includes a checkbox for "Show explanations", a "20 Results per page" slider, and a list of "Queried collections" such as "Göttinger Digitalisierungszentrum - Bucherhaltung" and "Göttinger Digitalisierungszentrum - DigiWunschbuch". At the bottom of the search options, there is a "SELECT..." button and an "ALL" button. Below the search input field, the "Extended search" section displays a word cloud of search results, including terms like "johann", "auff", "quae", "del", "sammlung", "weit", "leben", "alten", "est", "inaug", "sive", "histoire", "deutsch", "seu", "qua", "diss", "anno", "bey", "par", "per", "avec", "gottes", "pour", "reichs", "iuris", "def", "libri", "non", "cum", "nebst", "vnd", "les", "worden", "pro", "etc", "iii", "christi", "bsb", "quo", "theil", "neue", "gehalten", "stadt", "van", "denen", "neuen", "auf", "heiligen".

# The DFA as a highway to FAIR data management

- 1. Publikator:** Pack your car with data and describe that data with metadata.
- 2. Repository:** Enter the highway, drive safely, and make sure your data and metadata is visible.
- 3. Collection Registry:** Change lanes and add metadata information to your car itself.
- 4. Generic Search:** Our car can be seen by everyone and our its (meta)data can be accessed and interoperably reused!





Many thanks for your attention!

For further questions, please contact us or [support@clariah.de](mailto:support@clariah.de)!

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