



# Share-VDE: interoperability in practice

DCMI 2021 - Panel: Bibframe Implementation

Tiziana Possemato, @Cult and Casalini Libri

# Share-VDE in a nutshell

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Since 2016, Share-VDE has carried on **R&D work** to facilitate libraries in the transition from MARC-based cataloguing to linked data

this expanded over time from a pilot project to **Share-VDE and the Share family** of initiatives

<https://wiki.share-vde.org>

<https://www.share-vde.org>

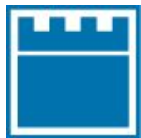
# A cooperative initiative

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Share-VDE is a collaborative endeavour based on the needs of libraries, developed and supported by:



the joint effort of the **Share-VDE Advisory Council** and of the **Working Groups**;



**Casalini Libri**, provider of bibliographic and authority data as member of the Program for Cooperative Cataloguing;



**@Cult**, provider of ILS, Discovery tools and Semantic web solutions for the cultural heritage sector;



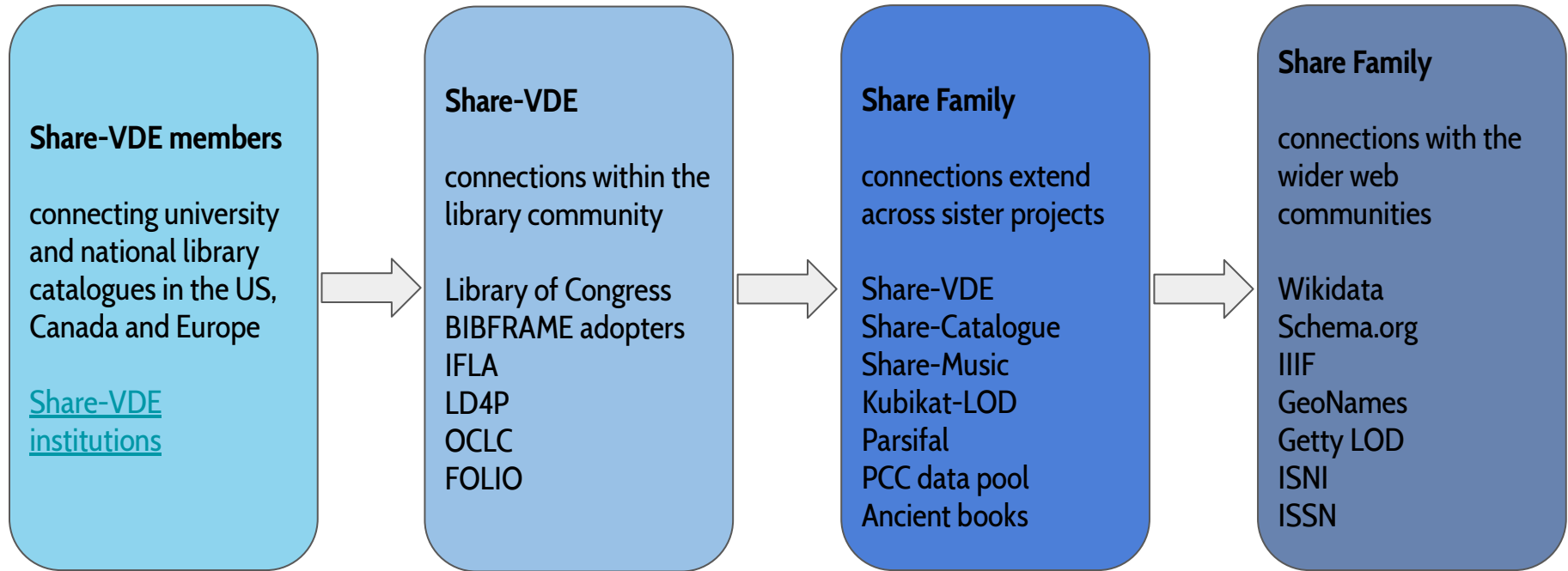
the vision of **Linked Data for Production initiative** with special endorsement of **Stanford**;



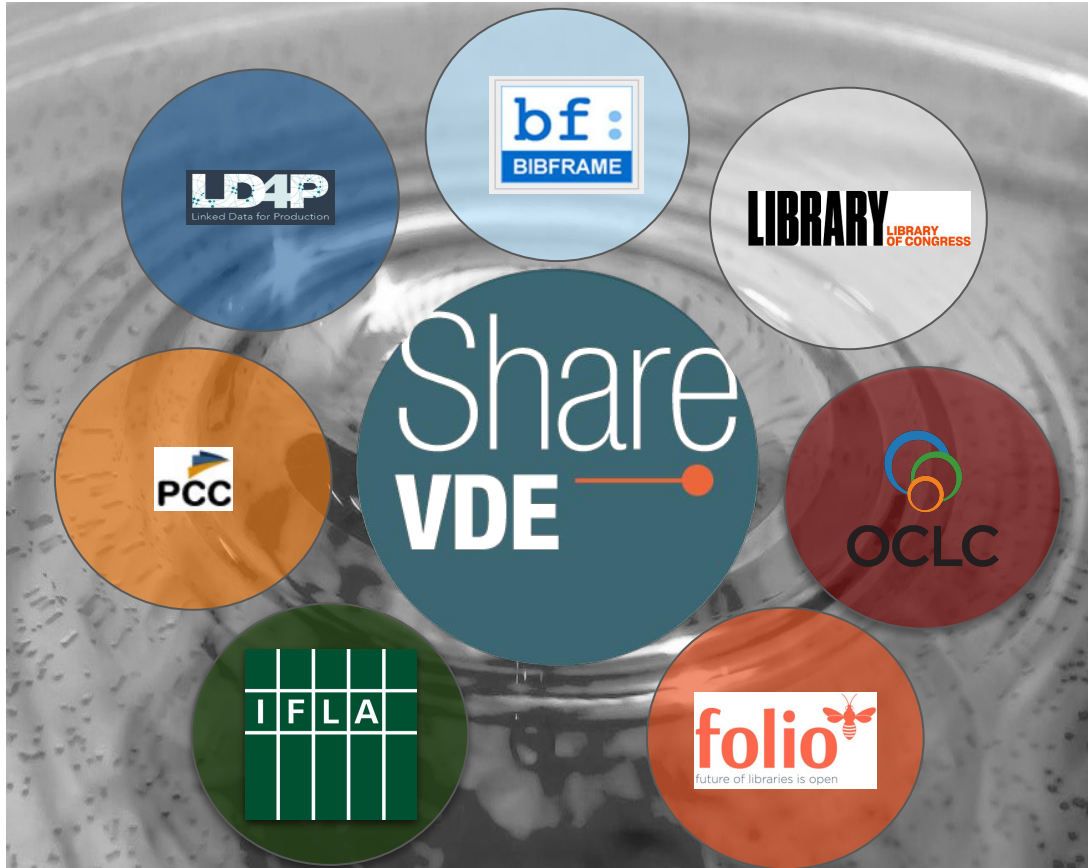
with input and active participation from an **international group of research libraries**.



# The diffusion in the worldwide communities



# Community engagement: library community

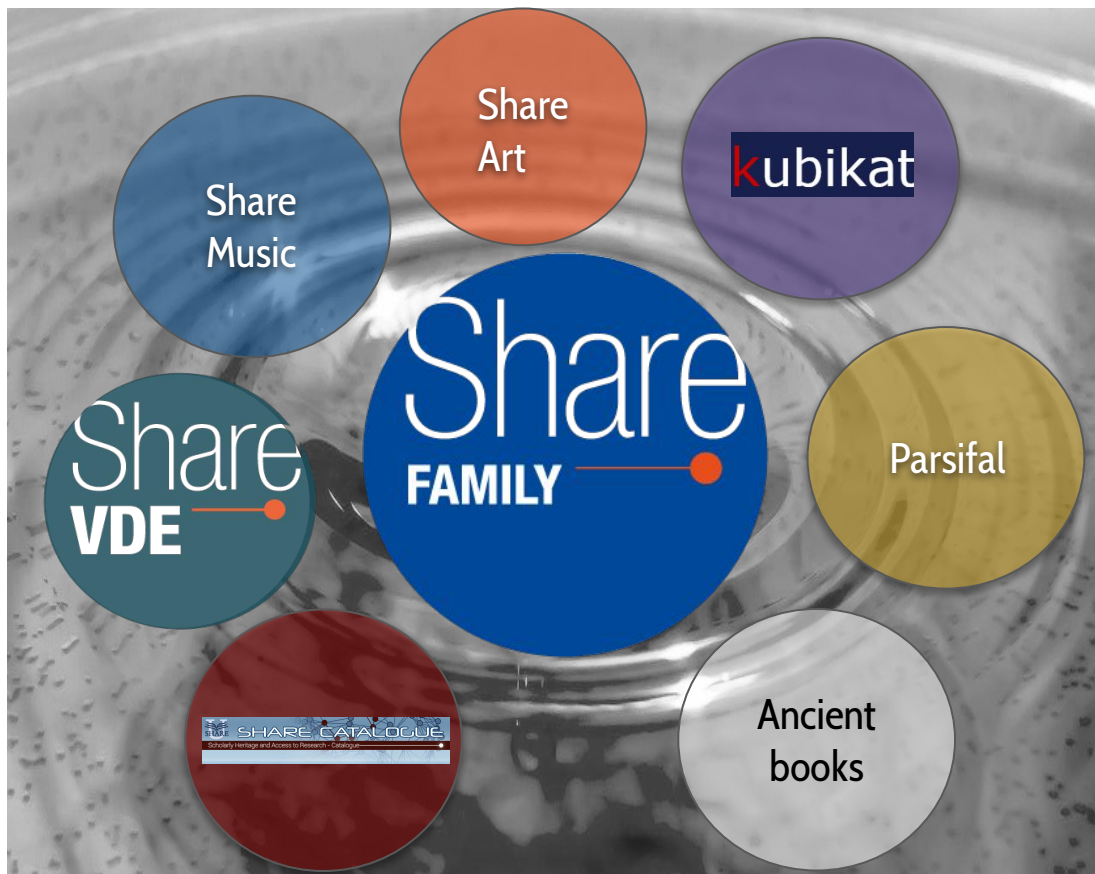


**Extended community:** collaboration with heterogeneous initiatives and institutions in the library domain

**Scientific value:** sharing of data and services in different technological environments and diverse bibliographical and cultural context



# Community engagement: SVDE sister projects



**Homogeneous community:** collaboration with projects and institutions applying the Share-VDE principles and technologies

**Scientific value:** shared vision whereby each initiative contributes with tools and practices that benefit everyone



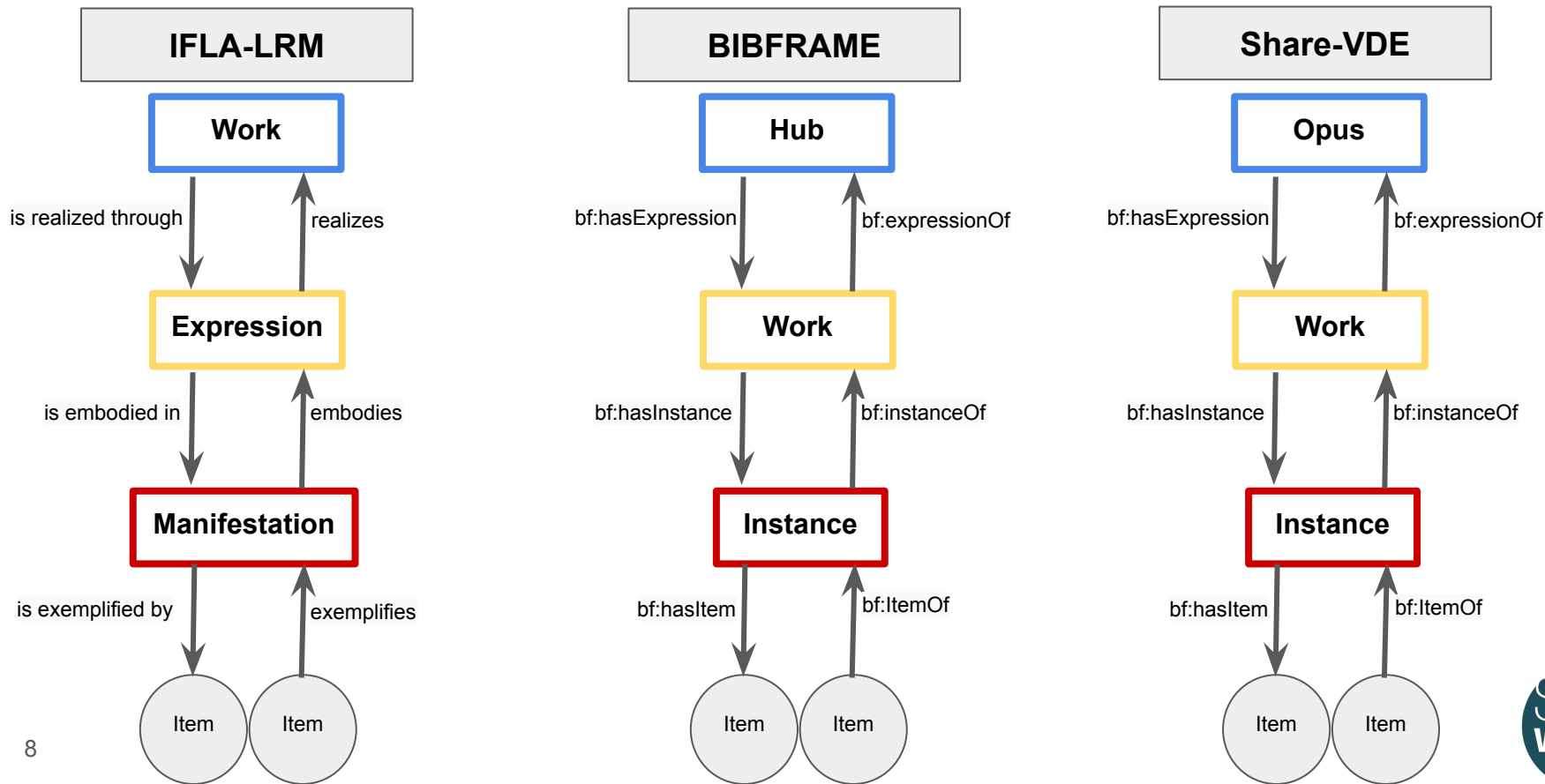
# Community engagement: World Wide Web



**Mixed community:**  
cross-domain cooperation  
across the Web community

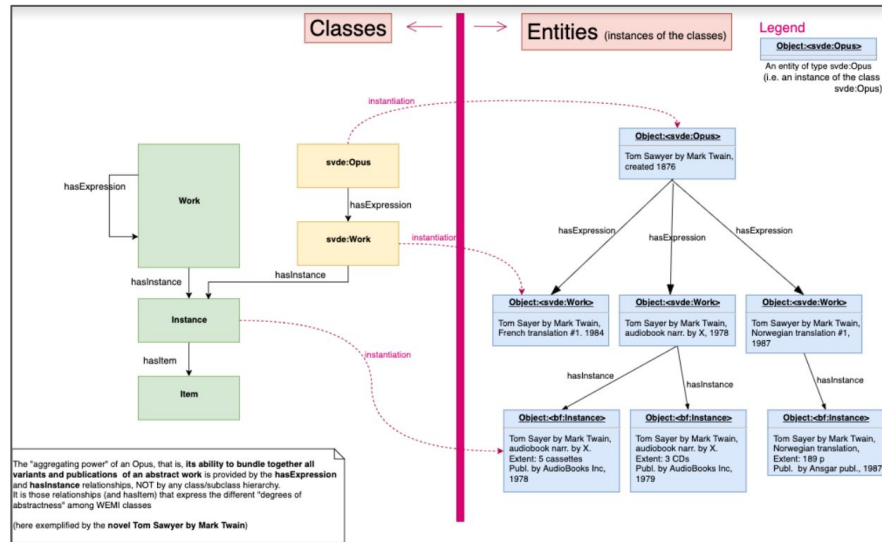
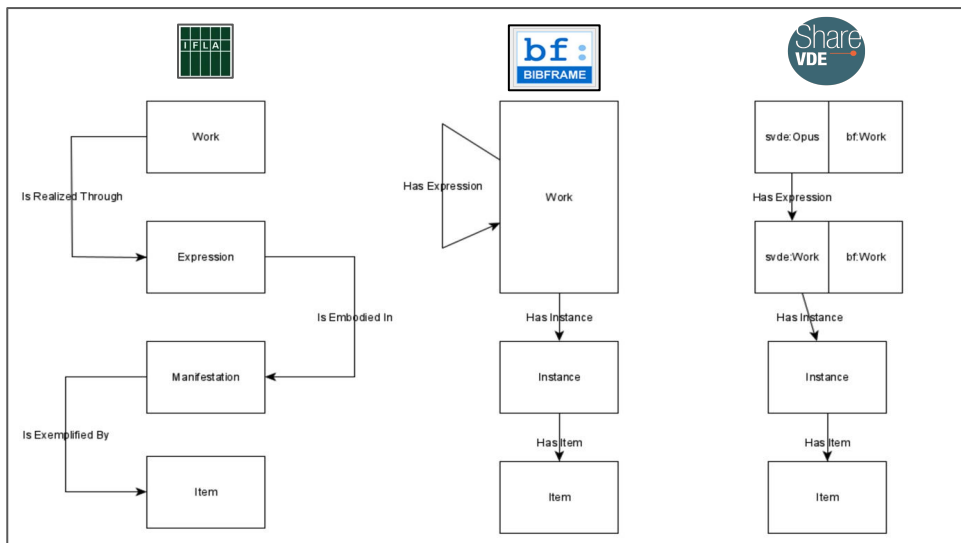
**Scientific value:** same  
solutions serve scopes of  
different communities, data  
reuse

# Entity models harmonisation





# Facilitate interoperability between entity models



Participation in LD4P3: the challenge of **data models interoperability** between SVDE and Sinopia

See the [SVDE entity model compared to BF and LRM](#) and an [example of application of the model](#)

# Modeling entities: the Opus

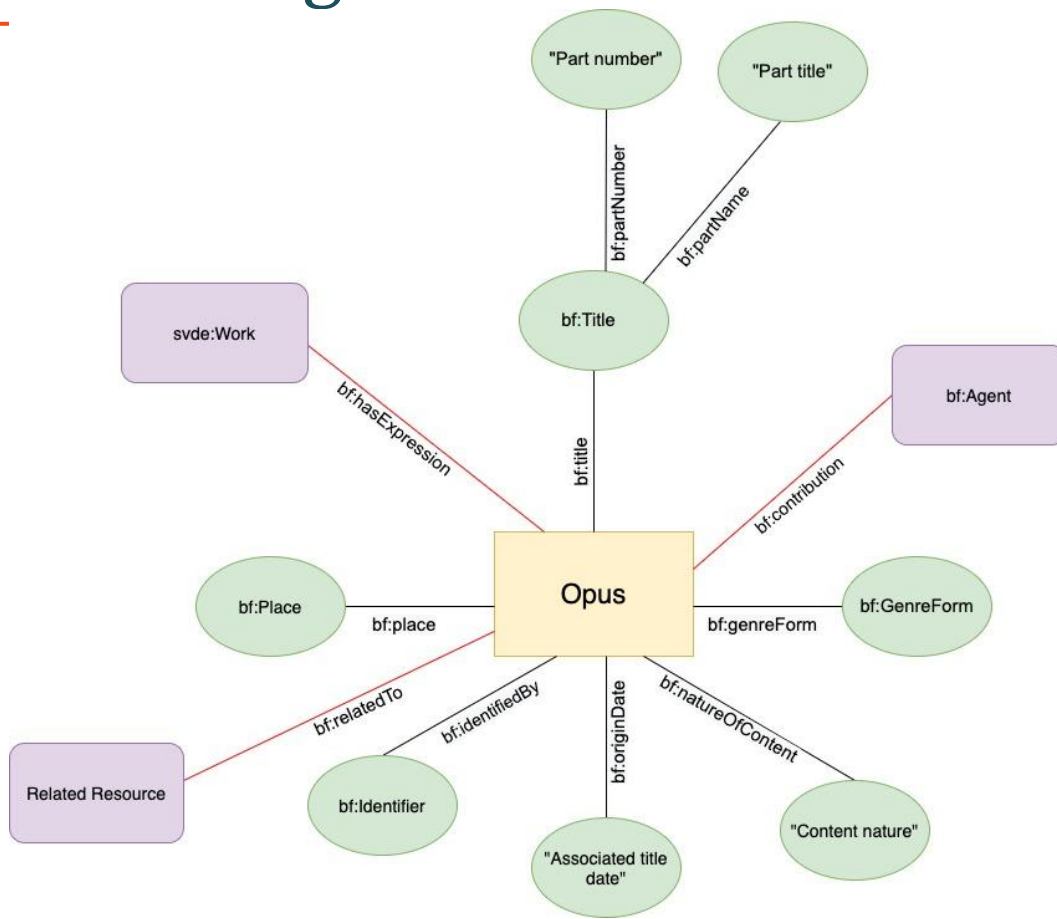
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The Share-VDE Opus is a type of bf:Work.

This work type is similar to the Library of Congress Hub in the sense that it provides clustering features for bringing all the works under a canonical work type.

The SEI team have worked on defining properties that provide this clustering functionality for the related cluster of Works.

# Opus modeling



# Work

Share-VDE Work maps to BIBFRAME Works and are compatible fully with BIBFRAME correspondances for Work properties.

## PCC BF2 Work (Monograph)



Contribution  
(Creator(s)/Contributor(s))

[Primary Contribution](#)

[Contribution](#)

[Title Information](#)

[Form of Work](#)

[Date of Work](#)

[Place of Origin of the Work](#)

[In series](#)

[\(Geographic\) Coverage of the Content](#)

[\(Time\) Coverage of the Content](#)

[Intended Audience](#)

[Notes about the Work](#)

Contribution (Creator(s)/Contributor(s))



Primary Contribution

[+ Add another](#)

[+ Add Primary Contributor \(one only!\)](#)

[+ Add Relationship Designator](#)

Contribution

[+ Add another](#)

[+ Add Contributor](#)

[+ Add Relationship Designator](#)

Title Information \*

Title--Work Title

[+ Add another](#)

[+ Add Preferred Title for Work](#)

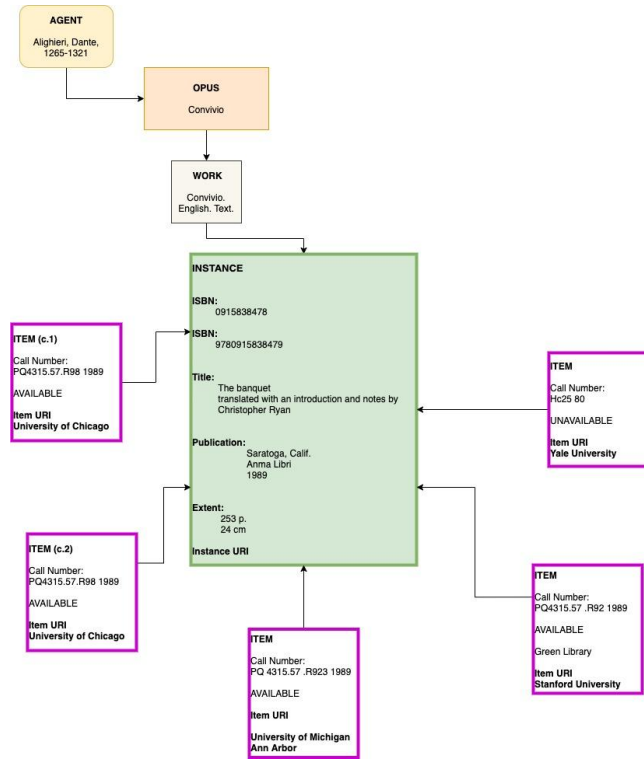
[+ Add Part number](#)



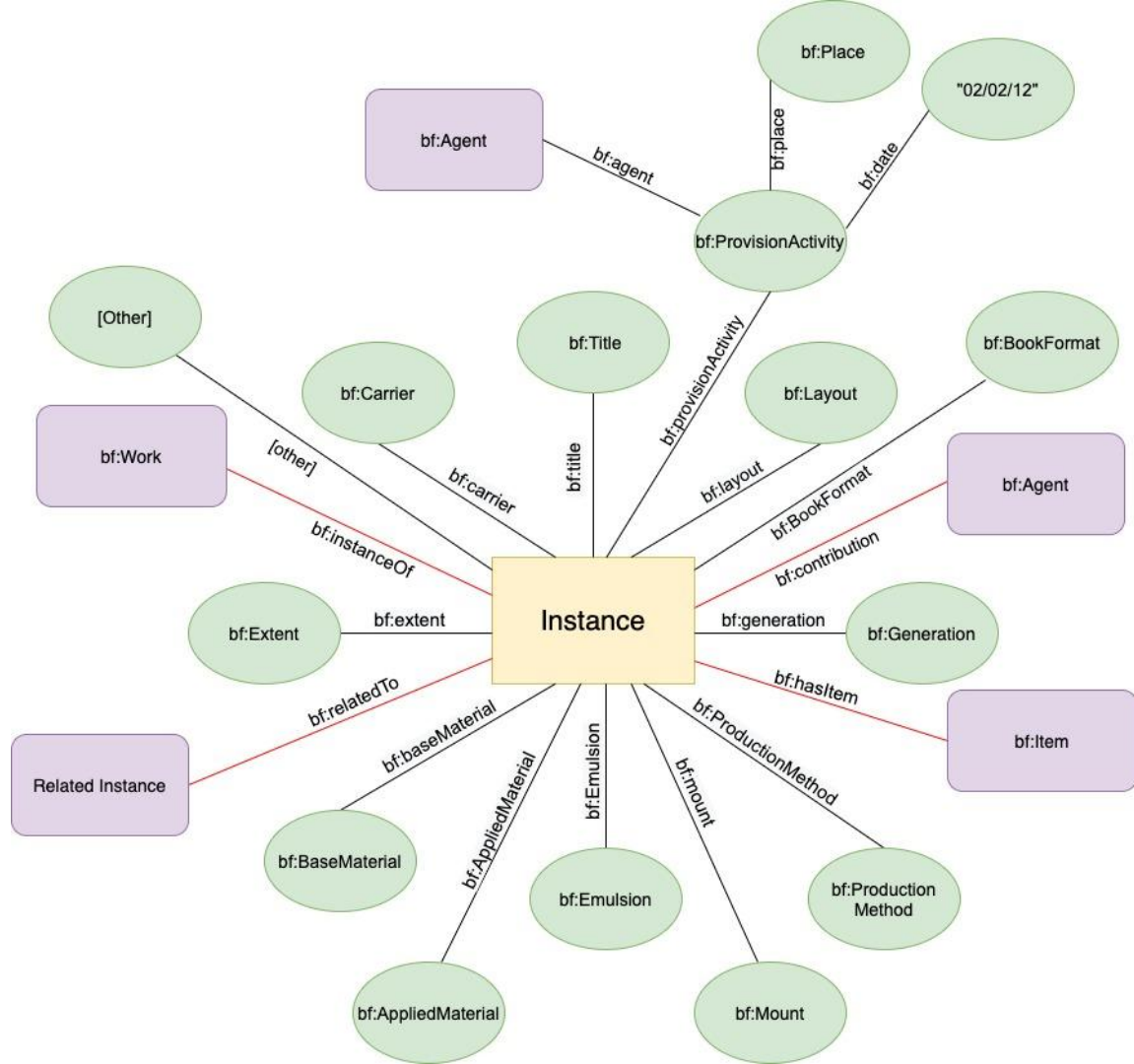


# Instance

Development of Instance Clustering Process, Introducing the canonical Instance. The SEI team has worked on defining properties that provide this clustering functionality for the related Instances.



# Instance modeling



# RDA in BIBFRAME: Data example

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<<http://share-vde.org/sharevde/rdfBibframe/Instance/CORNELL10535218>>

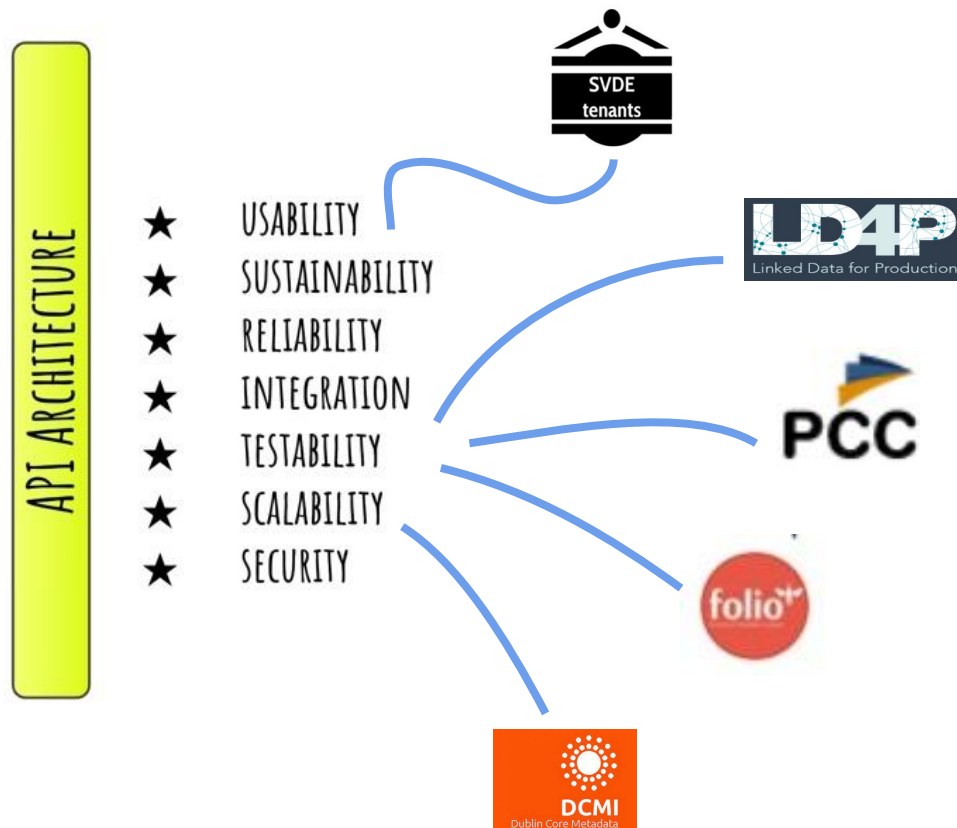
<<http://rdaregistry.info/Elements/m/P30004>>

<<http://worldcat.org/oclc/1063710941>>

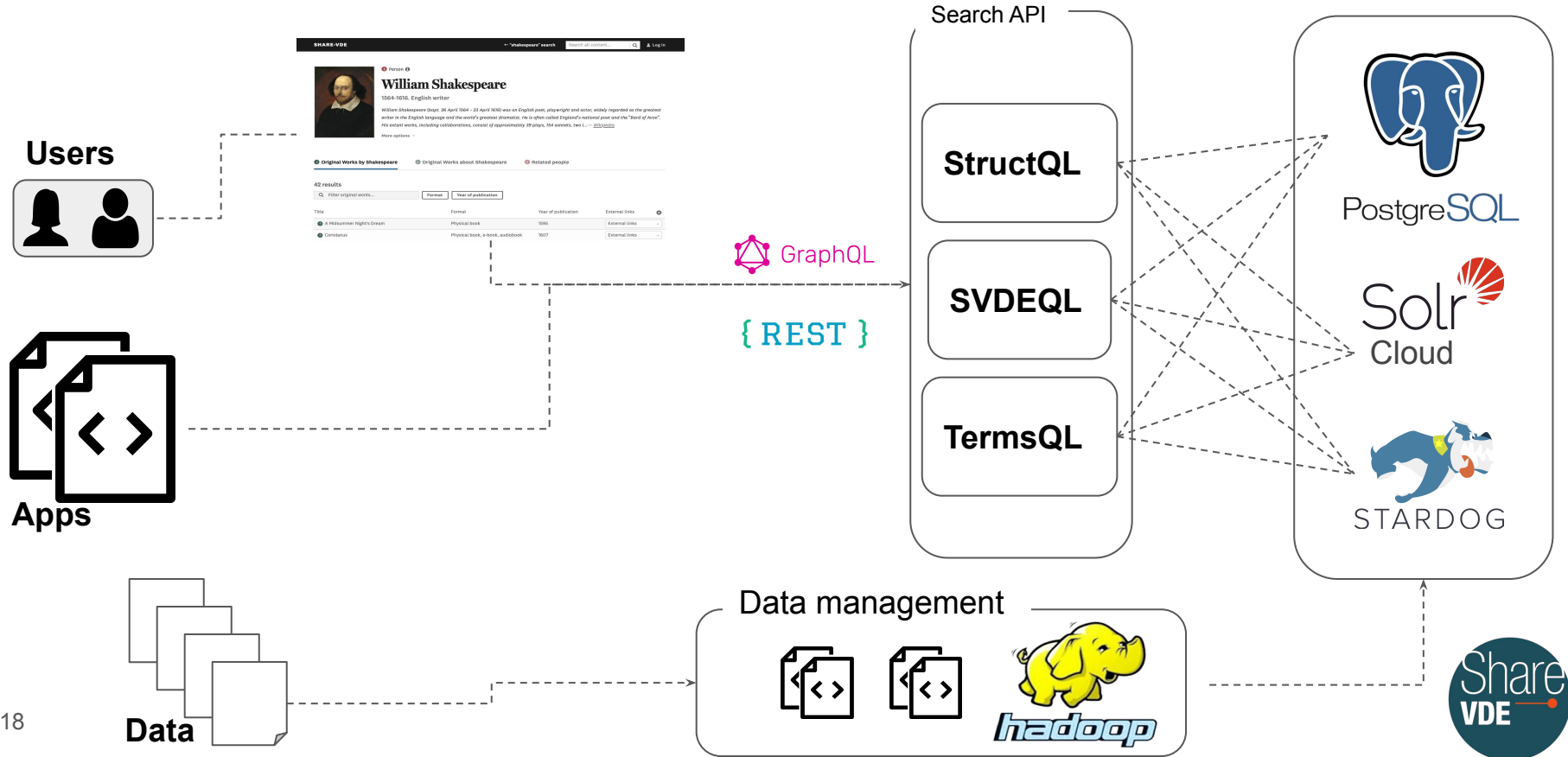
<<http://share-vde.org/sharevde/rdfBibframe/Provenance/CORNELL10535218>> .



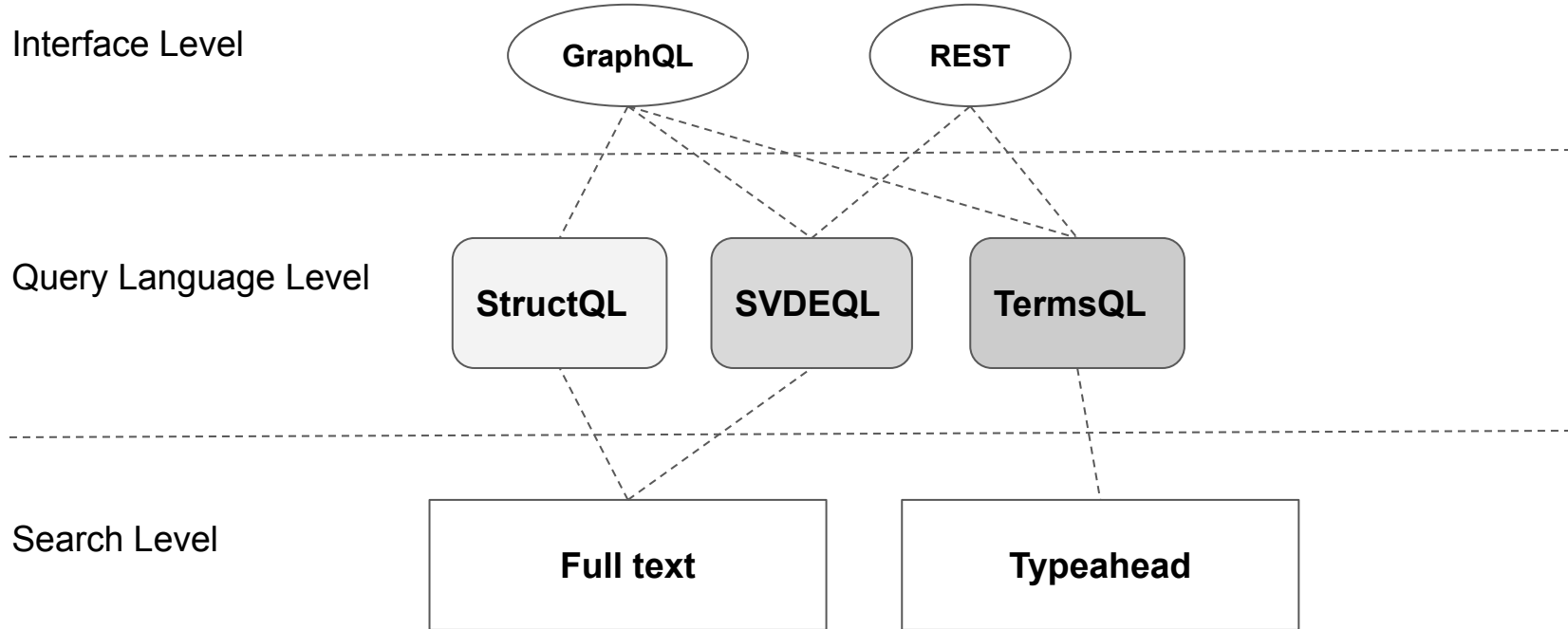
# API integration with other projects



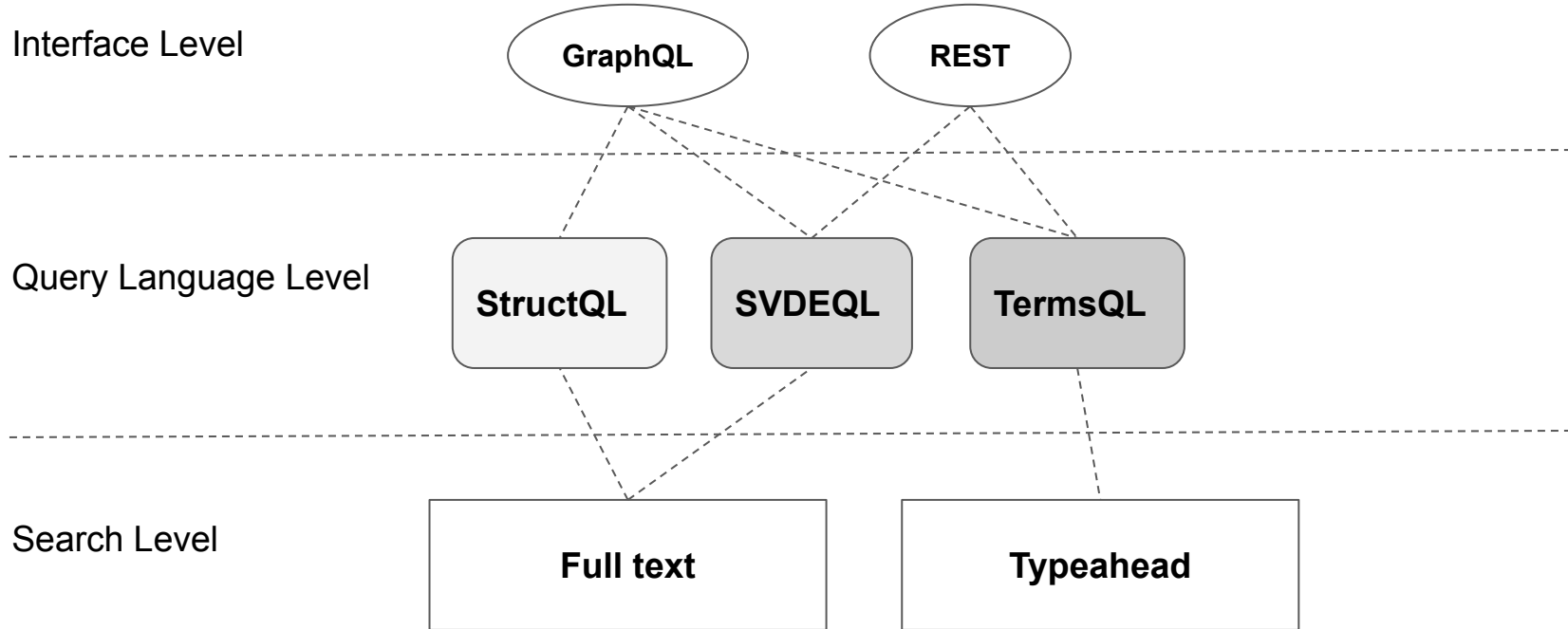
# Systems interoperability: Search APIs



# Query Languages



# Query Languages



# Integration - J.Cricket: the professional perspective

SHARE-VDE

Search all content...

Person

**William Goulding**

British novelist, poet, playwright and Nobel Prize for Literature laureate

Sir William Gerald Goulding, CBE (19 September 1911 – 19 June 1993) was a British novelist, playwright, and poet. Best known for his debut novel *Lord of the Flies* (1954), he would go on to publish another eleven novels in his lifetime. In 1980, he was awarded the Booker Prize for *Rites of Passage*, the first novel in what became his sea trilogy, *To the Ends of ...* — [Wikipedia](#)

More options ^

Original works by

Original works about

Related people

Filter...

Location

Language

All filters

Publication title	Contributors	Language	Year
<input type="checkbox"/> Lord of the flies	William Goulding	English	1954
<input checked="" type="checkbox"/> Pincher Martin, 1956 novel.	William Goulding	English	1956
<input checked="" type="checkbox"/> Pincher Martin	William Goulding	English	1956

↶ End of list

Click to add to merge list

2 original works selected View selected ^

Deselect all Add relationship Merge Add to my merge list

SVDE is evolving from a discovery platform that converts MARC data of libraries in Linked Open Data to an interactive authoritative source providing real services for libraries. This transition is happening through the editor named J. Cricket, that is the new application dedicated to the editing of SVDE data in a collaborative environment.

# Integration - Wikidata



Wikidata is increasingly authoritative and is used in the library community as a source for entity identification (SVDE property on Wikidata [Share-VDE author ID](#))



Query the source and enrich SVDE data with Wikidata entities information and vice versa → connection with [Casalini participation in the PCC Wikidata pilot](#)



Ad hoc SVDE working group is studying the use cases for interaction (e.g. starting points for the analysis are [API:Main page](#) + [Wikibase/API](#), and other documentation)



Major challenge: alignment between Wikidata and SVDE entities


# How J.Cricket interacts with Wikidata

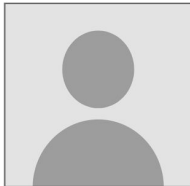
[←](#) [→](#) [Edit: "Isaiah Thomas" · Share-VDE](#)

Share-VDE

Q Search all content...

Isaiah Thomas > Edit

 **Manual review needed** · This cluster was automatically created and is likely in need of manual review [Verify this](#) [×](#)



Person

Isaiah Thomas


Cluster metadata

Connected external IDs

Actions

Source	ID	Name	Born	Died	Confidence	
OCLC	<a href="#">21X1241</a>	Isaiah Thomas	1989		Manually added by Anna Doe 4 months ago (June 2nd, 2021 at 04:32PM) <a href="#">View log</a>	...
VIAF	<a href="#">15684Y9</a>	Isaiah Thomas	1989		Automatically added on June 2nd, 2021 at 04:32PM based on identical LC authority ID in VIAF and SVDE <a href="#">Validate</a>	...
LC	<a href="#">89Z5663</a>	Isaiah Thomas	1989		Automatically added on June 2nd, 2021 at 04:32PM based on identical LC authority ID in VIAF and SVDE <a href="#">Validate</a>	...
Wikidata	<a href="#">Q55322233</a>	Isaiah Thomas	1773	1819	Automatically added on June 2nd, 2021 at 04:32PM based on identical LC authority ID in VIAF and SVDE <a href="#">Validate</a>	...

SUGGESTION

 **Isaiah Thomas** (or Isaiah Jamar Thomas)  
American basketball player · Born 1989 · [Q336030](#) [✱](#) [VIAF ID match](#)

[Add this](#)

[Add another external URI](#)

Share

VDE

# Integration of Wikidata IDs in SVDE with J.Cricket

← →

Connect external IDs · Share-VDE

Share-VDE

Q Search all content...

Connect to external IDs

Name

Q Isaiah Thomas

OCLC

VIAF


Wikidata


LC


GND


BNF


Other...




**Isaiah Thomas** (or Isaiah Jamar Thomas)  
American basketball player · Born 1989  
Q336030 



**Isaiah Thomas** (or Isaiah Thomas, Sr. · I. Thomas · I. T. · T. I.)  
Massachusetts printer, publisher and journalist · 1749-1831  
Q15503493 




**Isaiah Thomas** (or Isaiah Thomas, Jun. · I. Thomas, Jun.)  
(1773-1819) · 1773-1819  
Q55322233 

★ VIAF ID match

✓ Birth place match


Connected

+ Create new wikidata item for "John Doe" 

Wikidata item Q336030

This Wikidata entity has a potential duplicate on Wikidata [Review for merge](#)

**Isaiah Thomas**  
American basketball player  
1954-2017



**Sex or gender**  
Male

**Country of citizenship**  
United States of America

**Country for sport**  
United States of America

**Birth name**  
Isaiah Jamar Thomas (English)

**Date of birth**  
7 February 1989

**Place of birth**  
Tacoma

**Occupation**  
Basketball player

**Position played on team / speciality**  
Point guard

Connect to this ID

Done



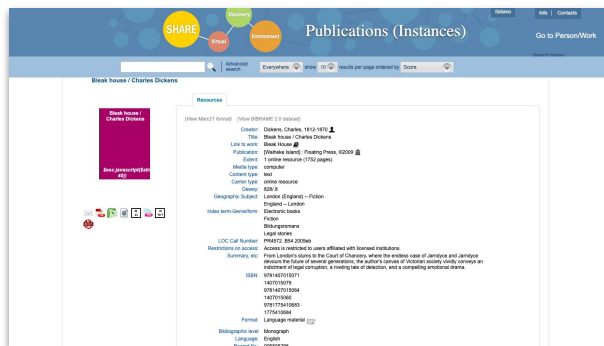
# Schema.org and web technologies

## Three main tasks

Public User Interface  
(HTML)

Schema.org Structured Data  
(Embedded in HTML)

Linked Open Data Source  
(Direct URI Requests)



```
<div class="book">
  <nlb-footer></nlb-footer>
</div>
<script type="application/ld+json">{
  "@graph": [ {
    "@id": "http://eresources.nlb.gov.sg/ID/NLBDM/entity/3FuAzwPQ",
    "@type": "schema:DefinedTerm",
    "schema:name": "Fiction."
  }, {
    "@id": "http://eresources.nlb.gov.sg/ID/NLBDM/entity/3JTQRQPG",
    "@type": "schema:DefinedTerm",
    "schema:name": "Women executives"
  }, {
    "@id": "http://eresources.nlb.gov.sg/ID/NLBDM/entity/LD-DFMLe",
    "@type": [ "schema:Product", "schema:CreativeWork" ],
    "schema:name": "Habit of a foreign sky /"
  }, {
    "@id": "http://eresources.nlb.gov.sg/ID/NLBDM/entity/X00cGnPO",
    "@type": "schema:DefinedTerm",
    "schema:name": "Chinese American women"
  }, {
    "@id": "http://eresources.nlb.gov.sg/ID/NLBDM/entity/mvOPU5Vb",
    "@type": "schema:Book",
    "schema:about": [ {
      "@id": "http://eresources.nlb.gov.sg/ID/NLBDM/entity/X00cGnPO"
    } ],
    "schema:creator": {
      "@id": "http://eresources.nlb.gov.sg/ID/NLBDM/entity/ngMon45"
    },
    "schema:genre": {
      "@id": "http://eresources.nlb.gov.sg/ID/NLBDM/entity/3FuAzwPQ"
    },
    "schema:inLanguage": "eng",
    "schema:name": "Habit of a foreign sky /"
  } ]
}
```

```
@prefix schema: <http://schema.org/> .

<http://bibframe.example.org/4507628#item050-11> a schema:Book,
  schema:CreativeWork,
  schema:IndividualProduct ;
schema:about <http://bibframe.example.org/4507628#Topic650-19>,
  <http://bibframe.example.org/4507628#Topic650-20>,
  <http://bibframe.example.org/4507628#Topic650-21> ;
schema:author <http://id.loc.gov/authorities/names/n92049003> ;
schema:contributor <http://id.loc.gov/authorities/names/n91071805> ;
schema:description "A clever mouse uses the threat of a terrifying creature to keep from bei" ;
schema:exampleOfWork <http://bibframe.example.org/4507628#Instance> ;
schema:inLanguage "eng" ;
schema:name "The gruffalo" ;
schema:sdDatePublished "2021-03-09" ;
schema:sdLicense <https://creativecommons.org/publicdomain/zero/1.0/> ;
schema:sdPublisher <https://bibframe2schema.org/> ;
schema:sku "P226.3.D7235 Gr 1999" .

<http://bibframe.example.org/4507628#Work> a schema:Book,
  schema:CreativeWork ;
schema:about <http://bibframe.example.org/4507628#Topic650-19>,
  <http://bibframe.example.org/4507628#Topic650-20>,
  <http://bibframe.example.org/4507628#Topic650-21> ;
schema:author <http://id.loc.gov/authorities/names/n92049003> ;
schema:contributor <http://id.loc.gov/authorities/names/n91071805> ;
```

Google

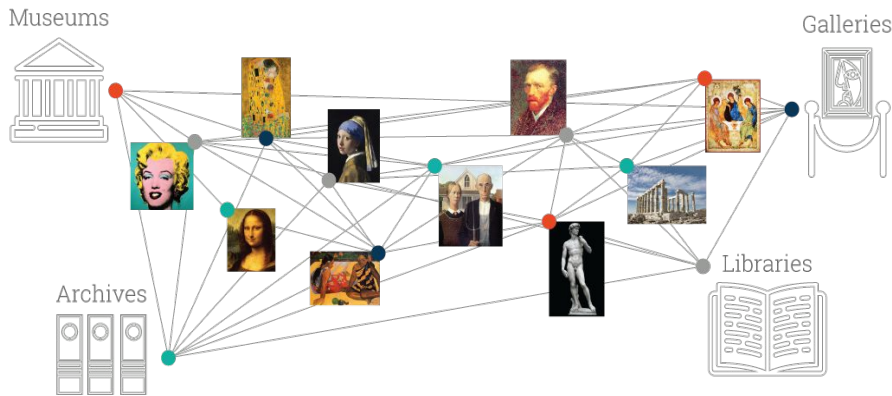


sitemap.xml

Triplestore



# Structured information and interconnections



Source: [Linked Open Data for Cultural Heritage](#)

We want to apply to library catalogues the same data structure and standards used by the web

The library community is adopting LD solutions to support visibility of their catalogues

Catalogues of libraries, museums, archives etc. can be connected, and resources are related to each other

# The new Share-VDE portal


(<https://www.svde.org/it>)

ShareVDE BETA

← shakespeare search

Search all content...

Options



Person

## William Shakespeare

**English playwright and poet (1564-1616). Born in 1564. Died in 1616.**

*William Shakespeare was an English playwright, poet, and actor, widely regarded as the greatest writer in the English language and the world's greatest dramatist. He is often called England's national poet and the "Bard of Avon". His extant works, including collaborations, consist of some 39 plays, 154 sonnets, three long narrative poems, and a few other verses, some of uncertain authorship. His plays have been translated into every major living language and are performed more often than those of any other playwright. They also continue to be studied and reinterpreted. – Wikipedia*

More options

Original works by

Publications by

Contributor

Genre

30 results

Name	Year	Genre	Contributors
<a href="#">(The) tempest</a>			<a href="#">William Shakespeare</a> (autore)
<a href="#">Reading Shakespeare's characters</a>			<a href="#">Christy Desmet</a> (autore); <a href="#">William Shakespeare</a> (altro); <a href="#">William Shakespeare</a> (altro)
<a href="#">Shakespeare's mediated world</a>			<a href="#">Richard Fly</a> (autore); <a href="#">William Shakespeare</a> (altro); <a href="#">William Shakespeare</a> (altro); Drama (altro)

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More options

Original works by

Contributor

Genre

30 results

Name

(The)) tempest

Reading Shakespeare's characters

Shakespeare's mediated world

Copy URI for this page

<https://share-vde.org/agents/501631348454462>

Copy

More information related to this person on other websites

bnf record

lcnaf record

wikidata record

isni record

viaf record

Richard Fly (autore); William Shakespeare (altro); William Shakespeare (altro); Drama (altro)

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More options

Original works by

Publications by

Publication year

Format

27 results

Sort by (A - Z)

The quarto copy for the first folio of Shakespeare (In Inglese, published in 1971.)

Contributors:

William Shakespeare (altro)

William Shakespeare (altro)

James Kirkwood Walton (autore)

Dublin University Press Ltd (editore)



Thank you

tiziana.possemato@atcult.it  
tiziana.possemato@casalini.it

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[www.svde.org](http://www.svde.org)  
[info@svde.org](mailto:info@svde.org)