LIBRARY FUTURES
Community Catalysts

OCLC Asia Pacific Regional Council Conference

#OCLCLibraryFutures

Linked Data initiatives at OCLC

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OCLC

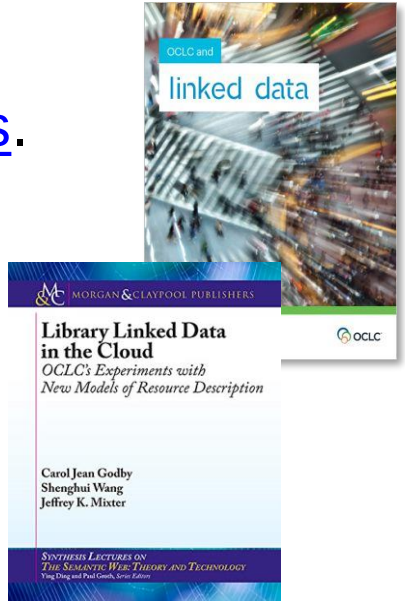
Status of Linked Data initiatives within OCLC and where we hope to be in the near future ...

OCLC Linked Data Research

There are quite many original OCLC research papers.

changing resource description workflows

Today	Tomorrow
Original cataloging	Entity description
Copy cataloging	Link management
Library authority control	Vocabularies from many sources



"We believe that linked data will become the de-facto standard for describing things on the internet, including bibliographic objects."

Wait, but why?

Why Linked Data?

Better outcomes

New functionality

Cleaner data

A better user experience

Greater web visibility

Connect library resources with other domains

More ways for discovery of library resources

Replicate existing library functions more efficiently

Improve data integration across domains and regions

Improve internal data management & quality

Clarify context vs. inventory control

https://upload.wikimedia.org/wikipedia/commons/8/8e/Documents_on_repository_shelving_at_The_National_Archives.jpg

Problem statement

The library community's foundational bibliographic standard is no longer sufficient to take advantage of the tremendous opportunities offered by the web.

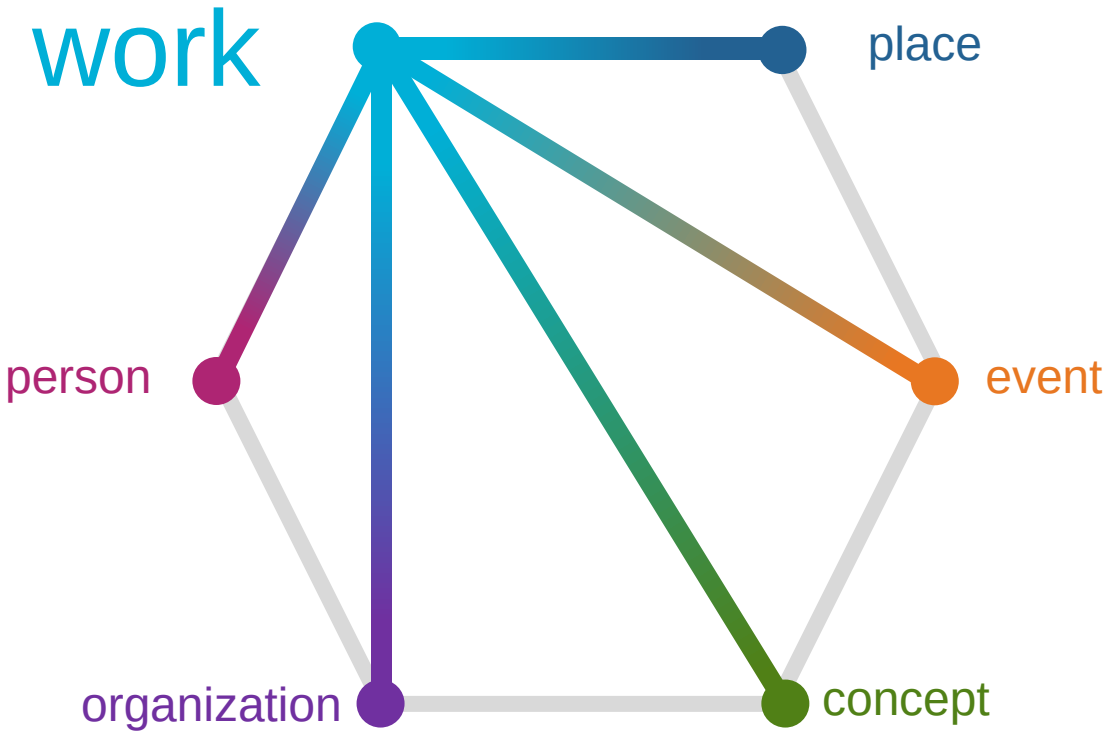
Areas of inquiry

- Searching across a wide pool of described ‘things’ (entities)
- Improving display of connections and context
- Improving connectivity of inbound data

Building a ”context layer”

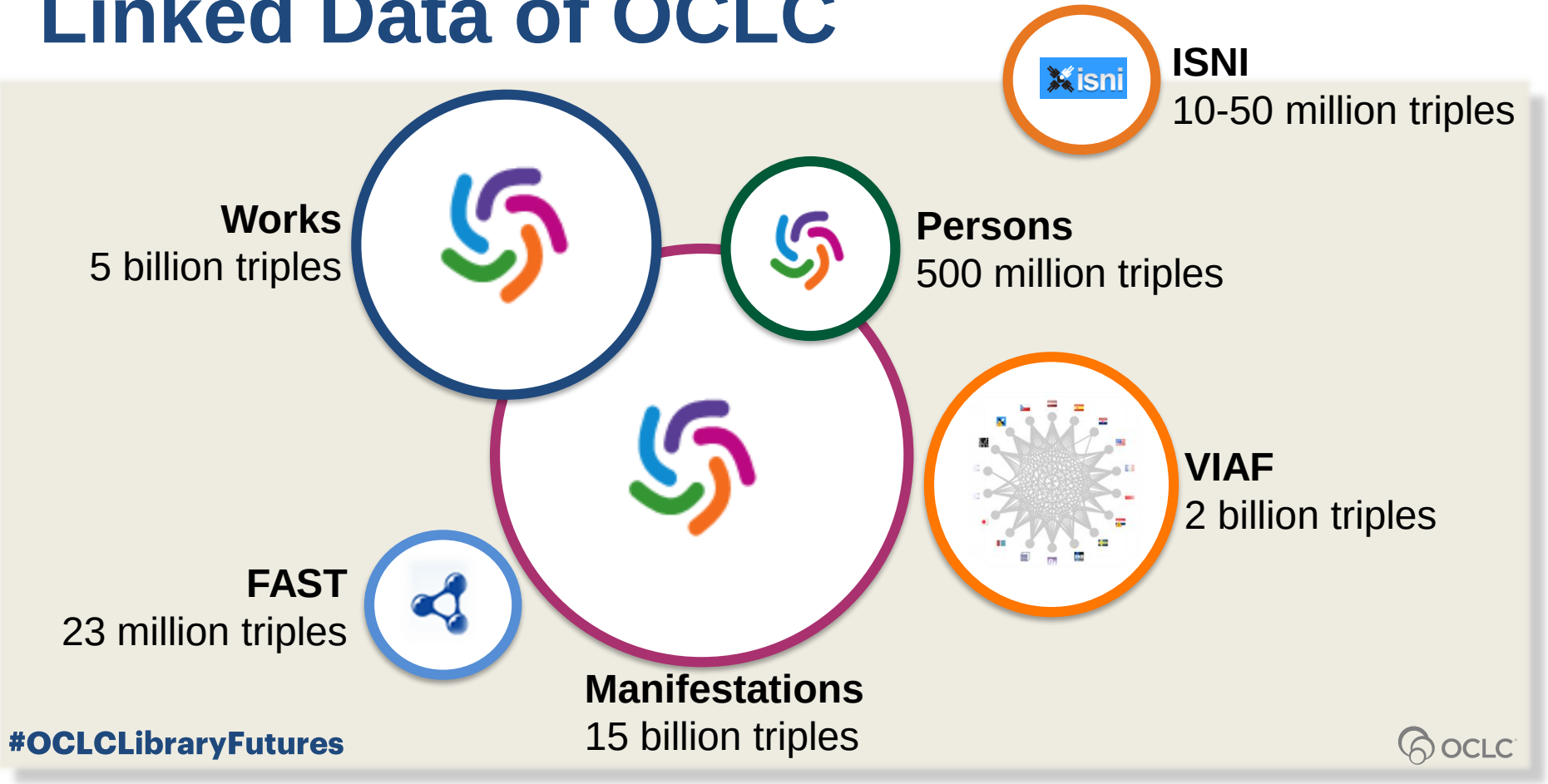
https://commons.wikimedia.org/wiki/File:Big_Trinity_Lake.jpg

Aspirations: IFLA - LRM



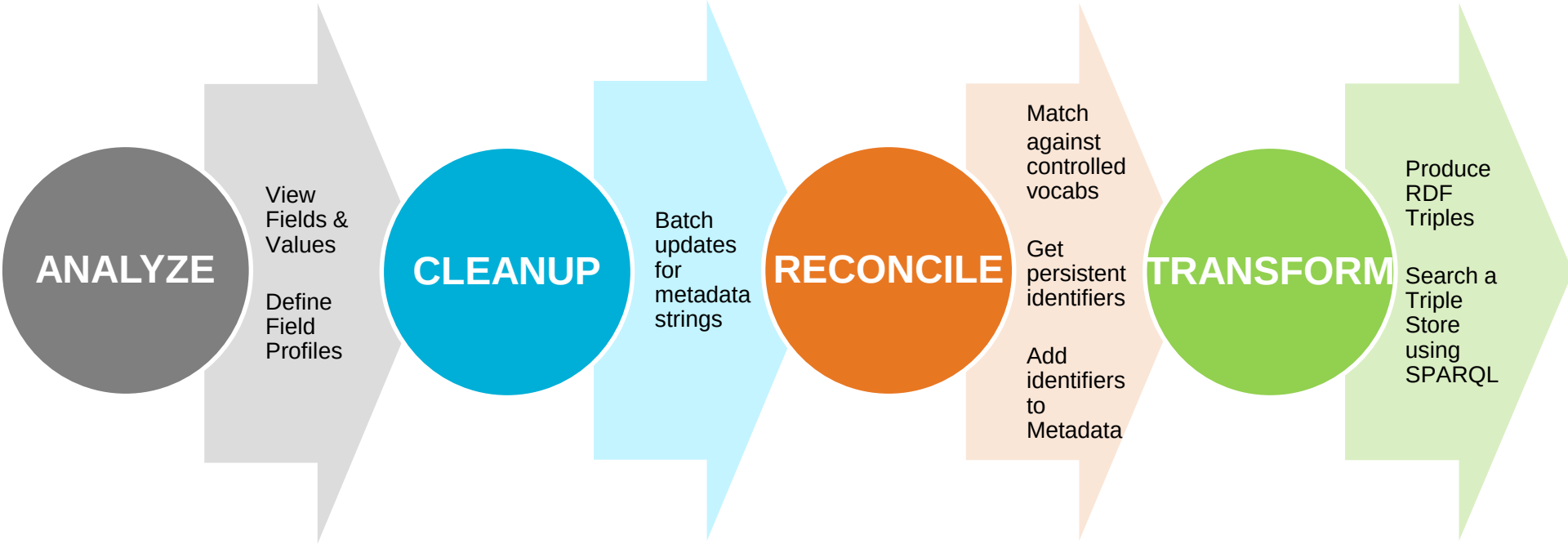
What have we done?

Linked Data of OCLC



Metadata refinery prototype

Transforming records to entities



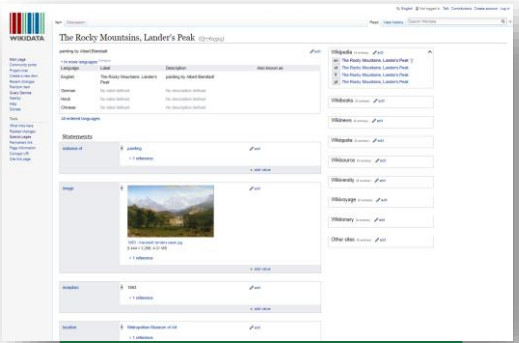
IIIF prototype / separation of related concerns

Wikipedia

COMMENTARY

Narrative **commentary**

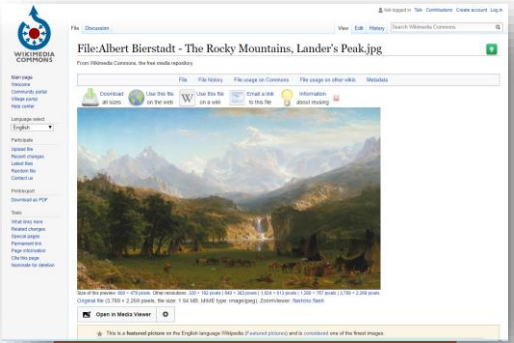
Wikidata



CONTEXT

Context through verifiable statements, entity properties and relationships

Wikimedia Commons



CONTENT

Digital **content**, rights, and technical metadata

OCLC

WikiData Pilot Project “Passage”

Phase I Partners (Dec ’17 - Apr ‘18)

- Cornell University
- University of California, Davis

Phase II Partners (May ‘18 – Sep ‘18)

- American University
- Brigham Young University
- Cleveland Public Library
- Harvard University
- Michigan State University
- National Library of Medicine
- North Carolina State University
- Northwestern University
- Princeton University
- Smithsonian Library
- Temple University
- University of Minnesota
- University of New Hampshire
- Yale University

What was “Passage” about

See here for more details

- Develop an **Entity Ecosystem** that facilitates:
  - Creation and editing of new entities
  - Connecting entities to the Web
- Build a **community of users** who can:
  - Create/Curate data in the ecosystem
  - Imagine/propose workflow uses
  - Communicate easily with each other and with OCLC to iteratively improve the prototype
- Provide services to:
  - **Reconcile data**
  - **Explore the data**

It was being built using open source technologies such as MediaWiki, WikiBase, and OpenRefine.

Results of “Passage”

- **Final Report** *Aug 2019*
- The simple prototype described at the beginning matured over time to a robust set of third-party tools based on WikiBase to manage over a million entities.
- Goals achieved:
  - **Collaboration**
  - **Reconciliation**
  - **Editing**

Create/Curate data

project PASSAGE

Item | Discussion | Read | View history | Search Project Passage

Main page
Create new item
Merge two items
Recent changes
Help
SPARQL Query Service

Tools

What links here
Related changes
Special pages
Printable version
Permanent link
Page information
Concept URI

In other languages
Add links

http://18.218.102.193/entity/Q664501

Jane Austen

English novelist
Austen, Jane

In more languages Configure

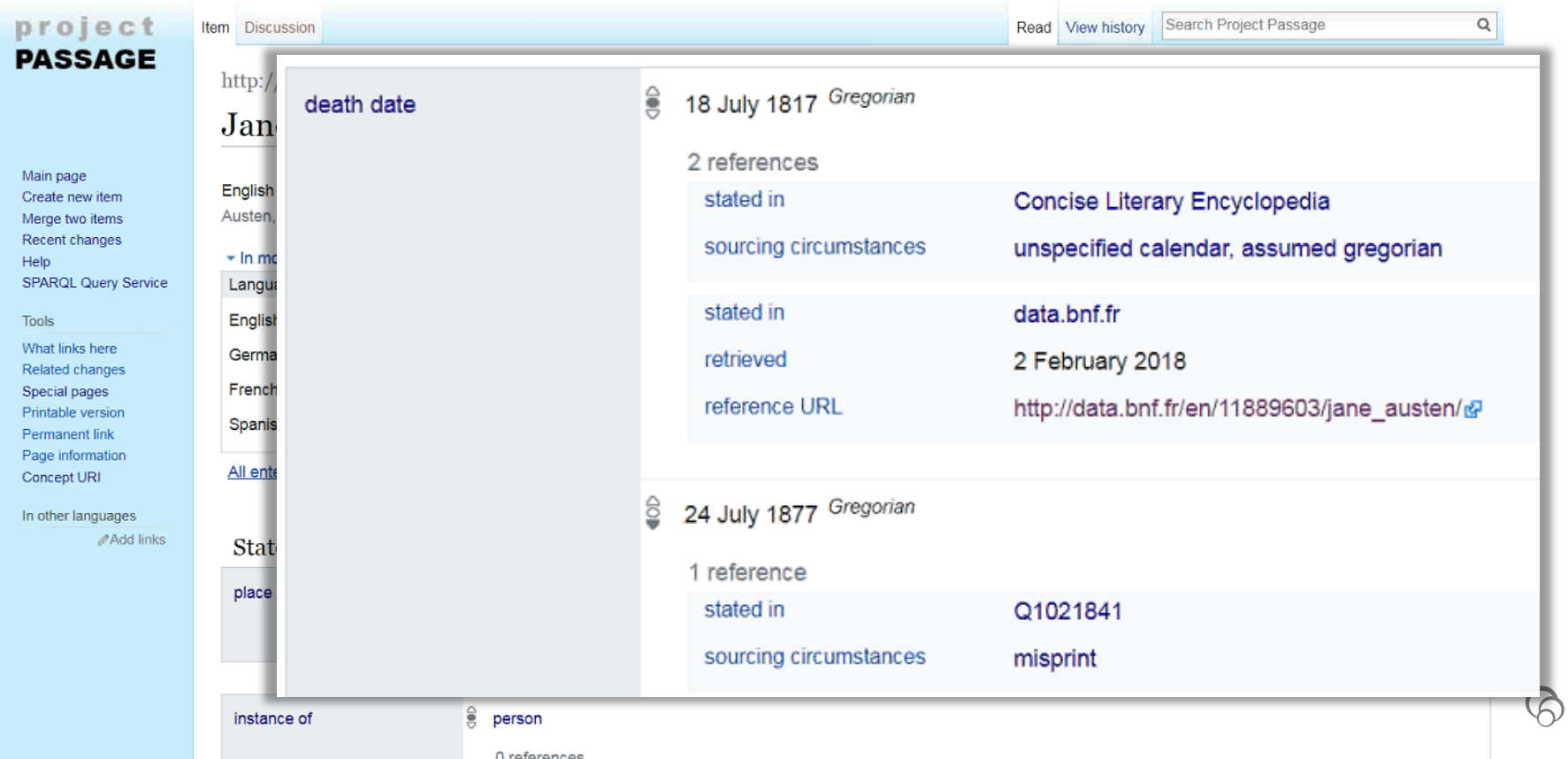
Language	Label	Description	Also known as
English	Jane Austen	English novelist	Austen, Jane
German	Jane Austen	britische Schriftstellerin	
French	Jane Austen	romancière anglaise	Austen, Jane
Spanish	Jane Austen	novelista británica	

All entered languages

Statements

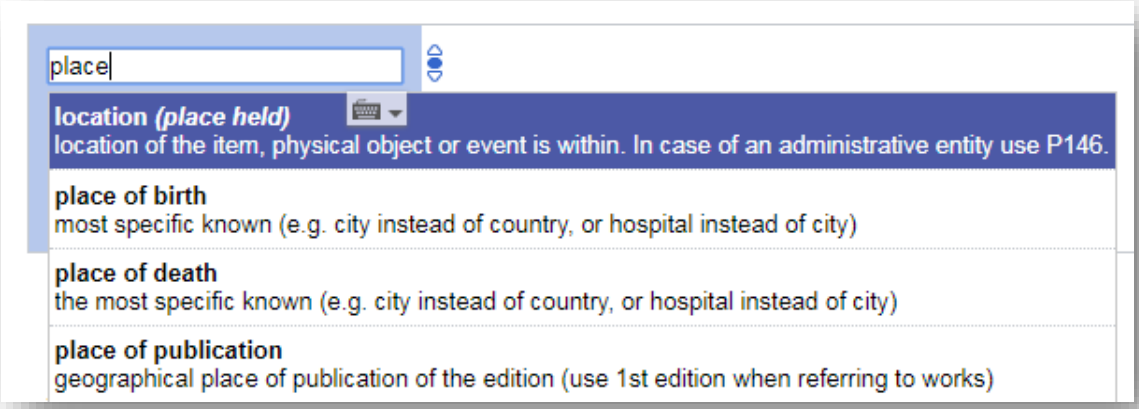
place of death	Winchester 0 references
instance of	person 0 references

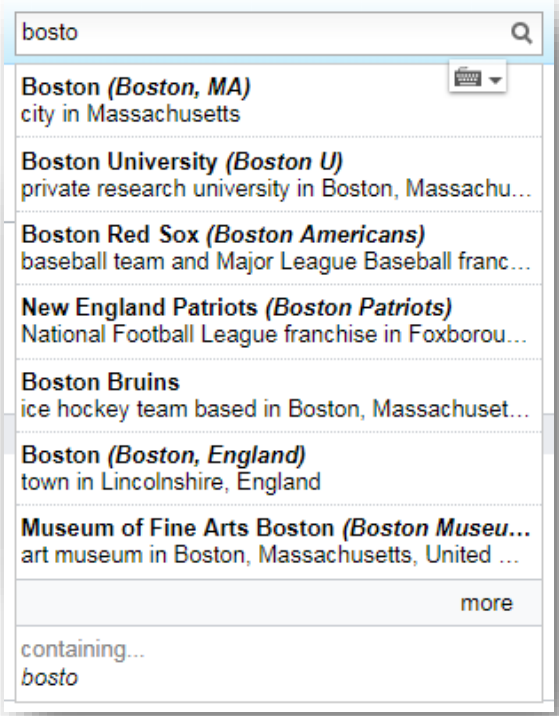
Create/Curate data



Reconcile data

- Searching for vocabulary and entities as you type





Explore the data

Project Passage Explorer Item Q1024094

Search for items in project passage

being and time

Sein und Zeit (German)

Being and Time

About

Being and Time (German: Sein und Zeit) is a 1927 book by the German philosopher Martin Heidegger, in which Heidegger seeks to analyse the concept of Being. This has fundamental importance for philosophy, he thought, because since the time of the Ancient Greeks, philosophy has avoided this question, turning instead to the analysis of particular beings. Heidegger seeks a more fundamental ontology through understanding being itself. He approaches this through seeking understanding of beings to whom the question of being is important, i.e. 'Dasein', or the human being in the abstract. Although written quickly, and though Heidegger did not complete the project outlined in the introduction, Being and Time remains his most important work. Being and Time has profoundly influenced 20th-century philosophy, particularly existentialism, hermeneutics, deconstruction, and the enactivist approach to cognition. The book is dedicated to Edmund Husserl "in friendship and admiration".

From dbpedia

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Wikimedia commons im

Philosophy book by Martin Heidegger

Also known as: Sein und Zeit

Statements
Translations
Identifiers

Statements

Genre
philosophy

Earliest known publication date
1927

Publisher
Max Niemeyer Verlag

Title
Sein und Zeit

Language
German

Instance of
book

Author
Martin Heidegger

Explore the data

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Philosophy book by Martin Heidegger

Also known as: Sein und Zeit

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Translated

存在와時間 (Korean)
Korean translation of Heidegger's Sein und Zeit (trans:Myŏng-o Chŏng; Sun-ch'ŏl Chŏng)

Being and time (English)
English translation of Heidegger's Sein und Zeit (translators: Macquarrie and Robinson)

Essere e tempo (Italian)
Italian translation of Heidegger's Sein und Zeit (translator: translators: Marini & Chiodi)

Είναι και Χρόνος (Modern greek)
Modern Greek translation of Heidegger's Sein und Zeit (translator: Tzavaras)

هستی و زمان (Persian)
Persian translation of Heidegger's Sein und Zeit (translator: Ǧamādī)

Væren og tid (Danish)
Danish translation of Heidegger's Sein und Zeit (translator: Skovgaard)

El ser y el tiempo (Spanish)
Spanish translation of Heidegger's Sein und Zeit (translator Jose Gaos)

Είναι και Χρόνος (Modern greek)
Greek translation of Heidegger's Sein und Zeit (translated by Vegenas)

存在と時間 (Japanese)
Japanese translation of Heidegger's Sein und Zeit (translator: Tasuku Hara)

Lét és idő
Hungarian translation of Heidegger's Sein und Zeit (translator: Vajda)

Explore the data

Project Passage Explorer Item Q1024094

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Philosophy book by Martin Heidegger

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Statements
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Identifiers

Canonical URL
http://18.218.102.193/entity/Q1024094

Wikidata item ID
http://www.wikidata.org/entity/Q404567

Representative OCN
http://www.worldcat.org/oclc/180629775

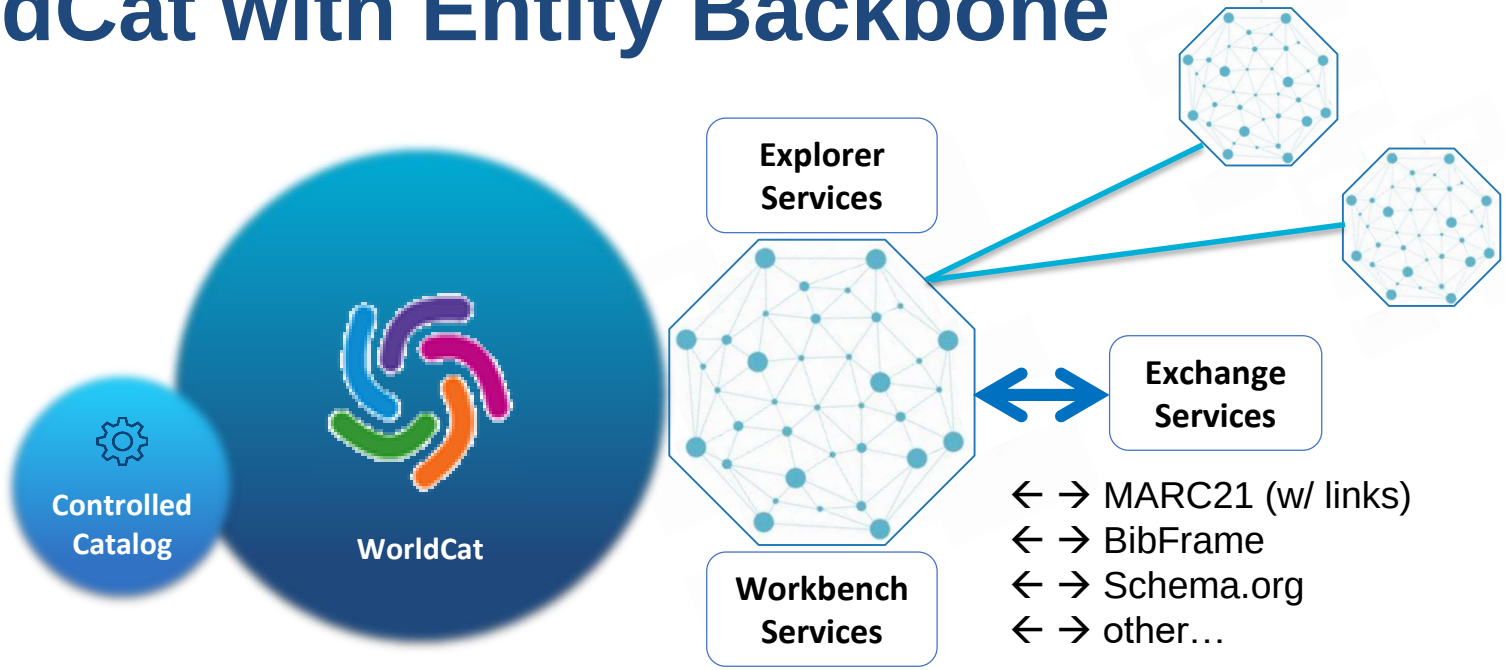
http://www.worldcat.org/oclc/4962810

Worldcat work ID (may be unstable)
http://worldcat.org/entity/work/id/3698820883

http://worldcat.org/entity/work/id/2909502532

http://worldcat.org/entity/work/id/2908578643

WorldCat with Entity Backbone



More info: https://www.oclc.org/research/themes/data-science/linkeddata/linked-data-prototype.html

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#OCLCLibraryFutures

Thank you

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