

# Amplifying Metadata as Entities to Support Multilingualism

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# Linked Data Wikibase Prototype: "Project Passage"



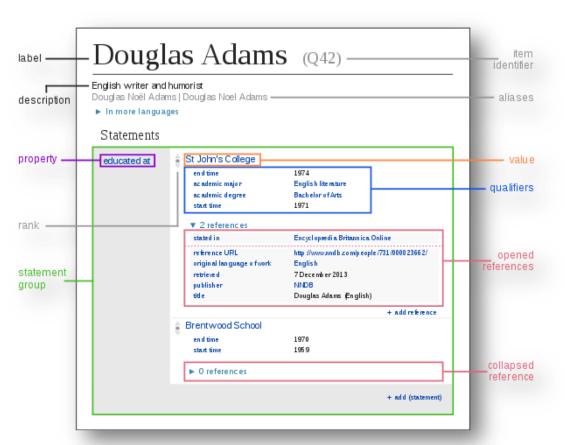
## **About the Passage Pilot**

- Ran from December 2017 through September 2018
- 16 OCLC Member libraries participated
- The objective was to evaluate a framework for reconciling, creating, and managing bibliographic and authority data as linked data entities and relationships
- The pilot Wikibase instance included 1.2M entities, mostly data representing overlaps between Wikidata, VIAF, and WorldCat



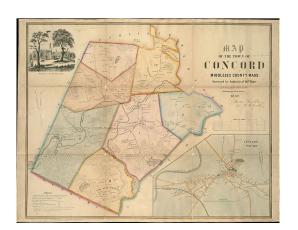
## **Entity-based**

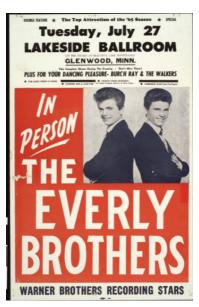
Create linked data without needing to learn its technical underpinnings





### Passage Pilot Partners Case Studies



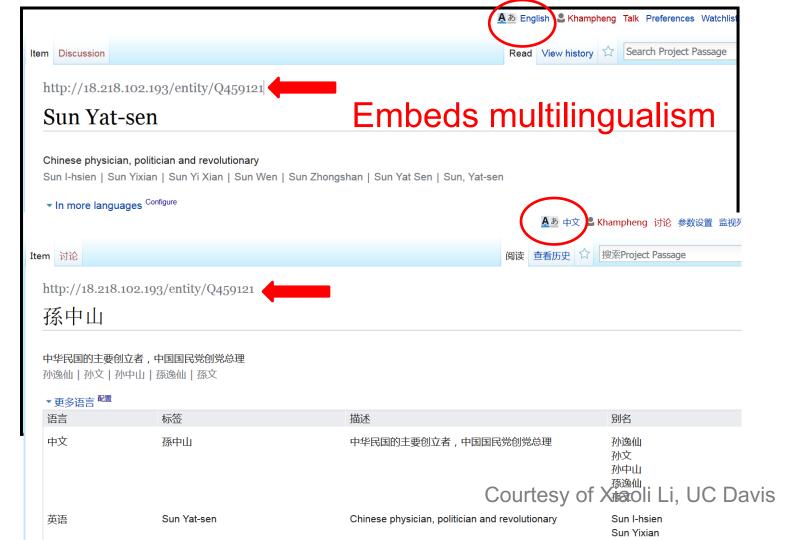












中华民国国父 Sun Yat-sen سون یات سین 孫文 孫文/孫逸仙 (بالصينية: 孫逸仙) 中国国民党总理 0 **Fonctions** Président provisoire de la république de 中華民國臨時大總統 Chine 29 décembre 1911 - 10 mars 1912 任期 (2 mois et 10 jours) 1912年1月1日 - 1912年3月10日 معلومات شخصية Vice-président Li Yuanhong 副总统 黎元洪 Prédécesseur Puyi (empereur) 12 نوفمبر 1866[1][2][3][5][5][6] الميلاد Yuan Shikai 前任 首任 Successeur **继任** 责世凯 Biographie 12 مارس 1925 (59 الوقاة Date de (二) 中國國民黨總理 12 novembre 1866 سنة)[3][2][8][7][4][3][9] naissance بكين [9][8] 任期 Lieu de Zhongshan, Empire de 1919年10月10日 - 1925年3月12日 naissance Chine سرطان الكبد[8] 🥖 Date de décès 12 mars 1925 (à 58 ans) 前任 首任 Lieu de décès Pékin, république de Chine سان فرانسيسكو (يونيو 1896-يوليو الإقامة 逝世後永久保留總理職銜 Nationalité Chinoise / [10]<sub>(1896</sub> 張人傑(中央執行委員會主席) Parti politique Kuomintang بن جمهورية الصبن مواطنة Conjoint Song Qingling 中華民國軍政府陸海軍大元帥 🍌 سلالة تشينغ الحاكمة 🎤 Enfants Sun Ke 任期 Médecin, écrivain Profession دونغ غوان 🦯 تشأ في 1917年9月10日 - 1918年5月20日 Religion Congrégationalisme الزوج/الزوجة كاورو أونسوكي (1905-1906) 首任 Sur yat sen سونغ تشينغ لينغ (25 أكثوبر 1915-岑春煊 (主席線裁)



Китайской Республики

Юань Шикай

12 ноября 1866

(ныне Чжуншань.

Пекин, Китайская

Республика

провинция Гуандун)

12 марта 1925 (58 лет)

Цуйхэн, уезд Сяншань

1 января 1912 года — 1 апреля 1912 года

Предшественник должность учреждена

Вероисповедание конгрегационализм

Преемник

Рождение

Смерть

Сунь Ятсен

кит. 孫逸仙



📞 עיסוק פוליטיקאי, רופא, פילוסוף

Sun yat Den norn

# Translations



Ιλιάδα

The Iliad

紅樓夢

氏

源

Dream of the Red Chamber

زقاق المدق Midaq Alley

ঘর বোইর

The Tate of Genji

The Home and the World

Война и миръ

דער בעל-תשובה

War and Peace

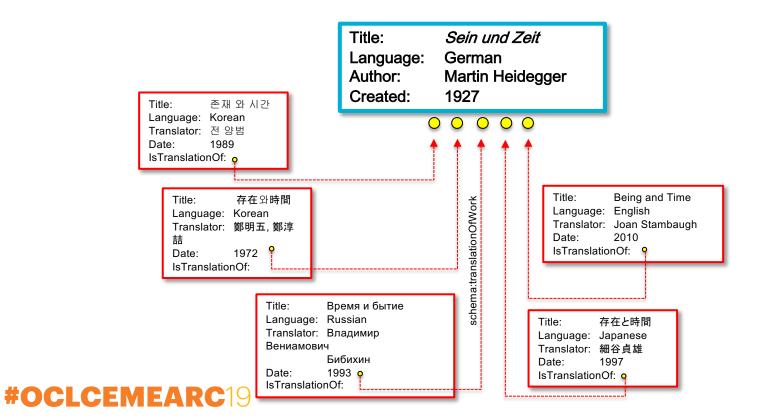
The Penitent

સત્યના પ્રયોગો અથવા આત્મકથા

The Story of My Experiments with Truth [Gandhi autobiography]



#### A work and its translations: a model





#### **Wikibase Statements**

#### **Work**

- Title (original title)
- Language (of original)
- Instance of: (Book)
- Author(s) (of original)
- Earliest known publication date

#### **Translation**

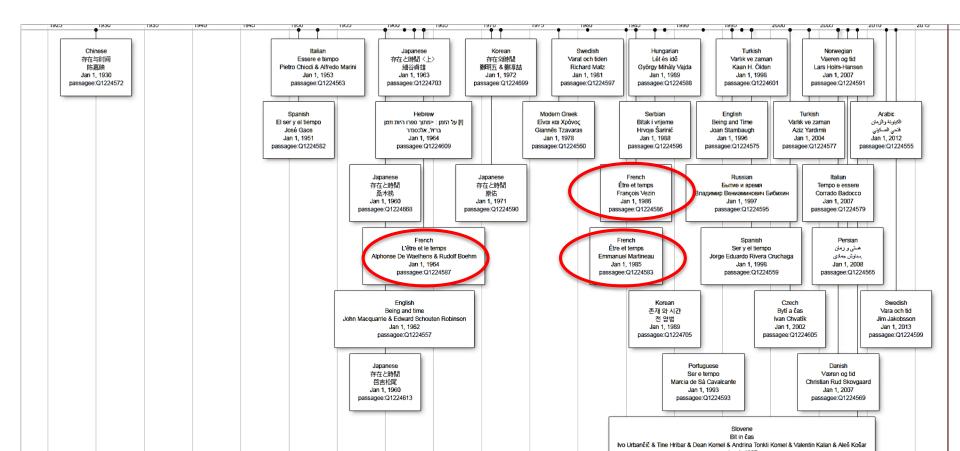
- Title (translated title)
- Language (of translation)
- Instance of: (Translation)
- Translator(s)
- Earliest known publication date
- Translated from



1 876191532	
8 19970719s1997 it 000 0 ita d	
40 [0] [1\$a] ITCPE [2\$b] ita [3\$c] ITCPE	H1 914193489
20 [0] [1\$a] 883040943X	8 20150720e201405uuit b 001 0 ita d
20 <mark>[0] [1\$a]</mark> 9788830409439	
82 [0] 14 [1\$a] 111 [29\$2] 19	40 [0] [1\$a] STF [2\$b] eng [5\$e] rda [3\$c] STF [4\$d] OCLCA
100 [0] 1_ [1\$a] Heidegger, Martin. [31\$4] aut	20 [0] [26\$z] 9788830415447
245 [0] 10 [1\$a] Essere e tempo / [3\$c] di Martin Heidegger ; traduzione di Pietro Chiodi cond	41 [0] 1_ [1\$a] <mark>ita [8\$h] ger</mark>
250 [0] [1\$a] 12. ed.	-50 [0] _4 [1\$a] B3279.H48 [2\$b] S4316 2014
260 [0] [1\$a] Milano : [2\$b] Longanesi, [3\$c] stampa 1997.	100 [0] 1_ [1\$a] Heidegger, Martin, [4\$d] 1889-1976, [5\$e] author.
300 [0] [1\$a] XXXIX, 558 p. ; [3\$c] 21 cm.	240 [0] 10 [1\$a] Sein und Zeit. [12\$l] Italian. [6\$f] 2014
490 [0] 0_ [1\$a] I marmi [22\$v] 155 500 [0] [1\$a] Copyr. 1976.	245 [0] 10 [1\$a] Essere e tempo / [3\$c] di Martin Heidegger ; a cura di Franco Volpi sulla
653 [0] 0 _ [1\$a] Essere.	versione di Pietro Chiodi con le glosse a margine dell'autore ; traduzione di Pietro Chiodi.
700 [0] 1 [1\$a] Chiodi, Pietro. [31\$4] aut	
100 [0] 1_ [144] Officell, 1 letto. [0144] aut	250 [0] [1\$a] 7. edizione.
	264 [0] _1 [1\$a] Milano : [2\$b] Longanesi, [3\$c] maggio 2014.
	300 [0] [1\$a] 632 pages ; [3\$c] 22 cm.
<ul> <li>No original language</li> </ul>	336 [0] [1\$a] text [29\$2] rdacontent
1 No original lariguage	337 [0] [1\$a] unmediated [29\$2] rdamedia
<ul> <li>No original title</li> </ul>	338 [0] [1\$a] volume [29\$2] rdacarrier
3	490 [0] 1_ [1\$a]   marmi ; [22\$v] v. 182
<ul> <li>Chiodi translator, not</li> </ul>	500 [0] [1\$a] Translation of: Sein und Zeit / Martin Heidegger.
•	504 [0] [1\$a] Includes bibliographical references (pages 553-579) and index.
author	650 [0] _0 [1\$a] Ontology.
	650 [0] _0 [1\$a] Space and time.
	650 [0] _7 [1\$a] Ontology. [29\$2] fast [27\$0] (OCoLC)fst01045995
	650 [0] _7 [1\$a] Space and time. [29\$2] fast [27\$0] (OCoLC)fst01127622
	700 [0] 1_ [1\$a] Volpi, Franco, [4\$d] 1952-2009, [5\$e] editor.
	700 [0] 1 [1\$a] Chiadi Biotro [5\$a] translator



#### Translations of Sein und Zeit



# Non-Latin scripts imported from Wikidata















These strings represent Wikipedia entries in multiple languages. They imply the existence of translations.

So the Greek title...

Είναι και Χρόνος

can be issued as a search against WorldCat to discover a translation. Since one was found, the Greek script can replace the transcription...

Finei kai chronos

...which isn't useful to Greek readers.



### Discovery layer crucial

#### Sein und Zeit (German)

#### Being and Time

 $\wedge$ 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 Être et Temps 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 CC BY-SA 3.0 question of being is important, i.e. 'Dasein', or the human being in the abstract. Although written quickly, Wikimedia commons image 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

Notable work of

Martin Heidegger

German philosopher

# 存在外時間 (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) Eίναι και Χρόνος (Modern greek)

Modern Greek translation of Heidegger's Sein und Zeit (translator: Tzavaras)

(Persian) هستي و زمان

#### Martin Heidegger

About

Martin Heidegger (/ˈhaɪdsgər, -dɪgər/; German: [ˈmaɐ̞tiːn ˈhaɪdsgə]; 26 September 1889 – 26 May 1976) was a German philosopher and a seminal thinker in the Continental tradition and philosophical hermeneutics. According to the IEP, he is "widely acknowledged to be one of the most original and important philosophers of the 20th century." Heidegger is best known for his contributions to Phenomenology and Existentialism, though as the SEP cautions, "his thinking should be identified as part of such philosophical movements only with extreme care and qualification." His first and best known book, Being and Time (1927), though unfinished, is one of the central philosophical works of the 20th century. In the first division of the work, Heidegger attempted to turn away from "ontic" questions about beings to ontological questions about Being, and recover the most fundamental philosophical question: the question of Being, of what it means for something to be. Heidegger approached the question through an



Wikimedia commons image

inquiry into the being that has an understanding of Being, and asks the question about it, namely, Human being, which he called Dasein ("being-there"). Heidegger argued that Dasein is defined by Care, its practically engaged and concernful mode of Being-in-the-world, in opposition to Rationalist thinkers like René Descartes who located the essence of man in our thinking abilities. For Heidegger thinking is thinking about things originally discovered in our everyday practical engagements. The consequence of this is that our capacity to think cannot be the most central quality of our being because thinking is a reflecting upon this more original way of discovering the world. In the second division, Heidegger argues that human being is even more fundamentally structured by its Temporality, or its concern with, and relationship to time, existing as a structurally open "possibility-for-being." He emphasized the importance of Authenticity in human existence, involving a truthful relationship to our thrownness into a world which we are "always already" concerned with, and to our Being-towards-death, the Finitude of the time and being we are given, and the closing down of our various possibilities for being through time. Heidegger also made critical contributions to philosophical conceptions of truth, arguing that its original meaning was unconcealment, to philosophical analyses of art as a site of the revelation of truth, and to philosophical understanding of language as the "house of being." Heidegger's later work includes criticisms of technology's instrumentalist understanding in the Western tradition as "enframing," treating all of Nature as a "standing reserve" on call for human purposes. Heidegger is a controversial figure, largely for his affiliation with Nazism, as Rector of the University of Freiburg for 11 months prior to his resignation in April 1934, for which he neither apologized nor publicly expressed regret, although in private he called it "the biggest stupidity of his life" (die größte Dummheit seines Lebens).

From dbpedia

German philosopher

Author of

Sein und Zeit (German)

Philosophy book by Martin Heidegger





# THANK YOU

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