Tutorial: Linking, Extending, Exploiting and Enhancing Tabular Data with Wikidata

Part 1: Introduction to Wikidata

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Department of Computer Science

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Introduction To Wikidata (25-30 min)

Goals of the Wikidata project

The Wikidata data model

Comparison with DBpedia, YAGO and Cyc

Interesting statistics about Wikidata

Goals of the Wikidata Project

WIKIDATA

Wikidata is a free, collaborative, multilingual, secondary database, collecting structured data to provide support for Wikipedia, Wikimedia Commons, the other wikis of the Wikimedia movement, and to anyone in the world.

https://www.wikidata.org/wiki/Wikidata:Introduction

Free

The data in Wikidata is published under the Creative Commons Public Domain Dedication 1.0.

Collaborative

Data is entered and maintained by Wikidata editors, who decide on the rules of content creation and management. Automated bots also enter data into Wikidata.

Multilingual

Editing, consuming, browsing, and reusing the data is fully multilingual. Data entered in any language is immediately available in all other languages.

A secondary database

Wikidata records not just statements, but also their sources, and connections to other databases.

Collecting structured data

Imposing a high degree of structured organization allows for easy reuse of data by Wikimedia projects and third parties, and enables computers to process and "understand" it.

Support for Wikimedia wikis

Wikidata assists Wikipedia with more easily maintainable information boxes and links to other languages.

Anyone in the world

Anyone can use Wikidata for any number of different ways by using its application programming interface, *the SPARQL endpoint and the JSON and RDF dumps.*

Why I ♥ Wikidata

Marina del Rey (Q988140)

census designated place

Statements

Own statements	From related entities

area	3.767749 square kilometre
population	8866 point in time : 2010
elevation above sea level	0 metre
located in time zone	Pacific Time Zone (time zone in North America)
	UTC−07:00 (Identifier for a time offset from UTC of −7) valid in period : daylight saving time (practice of advancing clocks so that evenings have more daylight and mornings have less)
	UTC−08:00 (Identifier for a time offset from UTC of −8) valid in period : standard time (synchronization of clocks within a geographical area or region)
coordinate location	(33°58'45" N , 118°27'10" W)
located in the administrative territorial entity	Los Angeles County (county in California, United States of America)
country	United States of America (federal republic in North America)

Media

page banner	Marina del Rey banner.jpg
locator map image	LA County Incorporated Areas Marina del Rey highlighted.svg
Commons category	Marina del Rey, California
image	Marina Del Rey Looking South.jpg

Wikimedia Categories and Portals

Own statements	From related entities

category of associated people	Category:People from Marina del Rey, California (Wikimedia category)
category for people born here	Q21000701 (Wikimedia category)
category for people who died here	Q21000703 (Wikimedia category)
topic's main category	Category:Marina del Rey, California (Wikimedia category)
Commons category	Marina del Rey, California

Links

Wikidata page
Wikipedia article
Reasonator

Identifiers

MusicBrainz area ID	2a24c2...3f0fdd
archINFORM location ID	16300
DMOZ ID	Region...l_Rey/
FIPS 55-3 (locations in the US)	06-45806
WOEID	2445713
Who's on First ID	85928367
Freebase ID	/m/01zhsqk
Library of Congress authority ID	n81081018
VIAF ID	247815515
GND ID	4418951-5
GNIS ID	1852255
GeoNames ID	5370542

Marina del Rey (Q9881)

census designated place

Good data, and lots of it

Statements

Own statements	From related entities

area	3.767749 square kilometre
population	8866 point in time : 2010
elevation above sea level	0 metre
located in time zone	Pacific Time Zone (time zone in North America)
	UTC−07:00 (Identifier for a time offset from UTC of −7) valid in period : daylight saving time (practice of advancing clocks so that evenings have more daylight and mornings have less)
	UTC−08:00 (Identifier for a time offset from UTC of −8) valid in period : standard time (synchronization of clocks within a geographical area or region)
coordinate location	(33°58'45" N , 118°27'10" W)
located in the administrative territorial entity	Los Angeles County (county in California, United States of America)
country	United States of America (federal republic in North America)

qualifiers

Media

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Links

Wikidata page
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Freebase ID	/m/01zhsqk
Library of Congress authority ID	n81081018
VIAF ID	247815515
GND ID	4418951-5
GNIS ID	1852255
GeoNames ID	5370542

identifiers

Kristabel Doebel-Hickok (Q19757547)

American bicycle racer

instance of: Kristabel Doebel-Hickok is a(n) human

Statements

Own statements | From related entities

member of sports team	Rally Cycling (United States women's cycling team) start time : 2019
	Cylance Pro Cycling (United States women's cycling team) start time : 2016 end time : 2018
	Team TIBCO (women's cycling team) start time : 2014 end time : 2015
sport	cycle sport (competitive physical activity using bicycles)
country of citizenship	United States of America (federal republic in North America)
place of birth	Marina del Rey (census designated place)
date of birth	1989-04-28
occupation	sport cyclist (someone who competes in the sport of cycling)
sex or gender	female (human gender (use with P21))

Media

image	Krista Doebel-Hickok, Giro Rosa 2016.jpg media legend : Au Tour d'Italie 2016 [fr]

Links

- **Wikidata page**
- **Wikipedia article**
- **Reasonator**

Identifiers

ProCyclingStats cyclist ID	179437
Cycling Archives cyclist ID	98235
CQ Ranking female cyclist ID	7931

Kristabel Doebe

American bicycle racer

instance of: Kristabel Doebel-Hickok is a

Statements

Own statement	
member of sports team	Rally start
	Cylan start end t
	Team start end t
sport	cycle
country of citizenship	Unite
place of birth	Marin
date of birth	1989-
occupation	sport
sex or gender	femal

Media

image	Krista medi

Statistics based on data dump 11/11/2019 (

DBpedia | Browse using | Formats | Faceted Browser | Sparql Endpoint

About: Kristabel Doebel-Hickok

An Entity of Type : cyclist, from Named Graph : http://dbpedia.org, within Data Space : dbpedia.org

Kristabel Doebel-Hickok (born April 28, 1989) is an American professional racing cyclist. She rides for Cylance Pro Cycling.

Property	Value
dbo:abstract	Kristabel Doebel-Hickok (born April 28, 1989) is an American professional racing cyclist. She rides for Cylance Pro Cycling. (en)
dbo:birthDate	1989-04-28 (xsd:date) 1989-4-28
dbo:thumbnail	wiki-commons:Special:FilePath/Krista_Doebel-Hickok,_Giro_Rosa_2016.jpg?width=300
dbo:wikiPageID	46226373 (xsd:integer)
dbo:wikiPageRevisionID	729299224 (xsd:integer)
dbp:caption	Kristabel Doebel-Hickok during the Giro Rosa 2016
dbp:role	Rider
dct:description	American bicycle racer (en)
dct:subject	dbc:1989_births dbc:Living_people dbc:Place_of_birth_missing_(living_people) dbc:American_female_cyclists
http://purl.org/linguistics/gold/hypernym	dbr:Cyclist
rdf:type	owl:Thing foaf:Person dbo:Person dul:Agent dul:NaturalPerson wikidata:Q215627 wikidata:Q24229398 wikidata:Q5 dbo:Agent dbo:Athlete dbo:Cyclist schema:Person
rdfs:comment	Kristabel Doebel-Hickok (born April 28, 1989) is an American professional racing cyclist. She rides for Cylance Pro Cycling. (en)
rdfs:label	Kristabel Doebel-Hickok (en)
owl:sameAs	freebase:Kristabel Doebel-Hickok wikidata:Kristabel Doebel-Hickok dbpedia-fr:Kristabel Doebel-Hickok dbpedia-wikidata:Kristabel Doebel-Hickok
prov:wasDerivedFrom	wikipedia-en:Kristabel_Doebel-Hickok?oldid=729299224
foaf:depiction	wiki-commons:Special:FilePath/Krista_Doebel-Hickok,_Giro_Rosa_2016.jpg
foaf:gender	female (en)
foaf:isPrimaryTopicOf	wikipedia-en:Kristabel_Doebel-Hickok
foaf:name	Kristabel Doebel-Hickok (en)
is dbo:wikiPageRedirects of	dbr:Kristabel_Doebel_Hickok dbr:Kristabel_Hickok dbr:Krista_Doebel-Hickok
is foaf:primaryTopic of	wikipedia-en:Kristabel_Doebel-Hickok

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no sports team

no identifiers

Links

ikidata page

ikipedia article

easonator

Identifiers

roCyclingStats yclist ID	179437
ycling rchives cyclist	98235
Q Ranking male cyclist	7931

by Wikidata Toolkit & Wikidata SPARQL Que

cycle sport (Q2215841)

bicycle sport | bike sport | cycling sport | sport cycling | sports cycling | cycling sports

competitive physical activity using bicycles

subclass of:
instance of: cycle sport is a(n) type of sport

Instances

Direct instances	2 Q65246005 , Q11953089
All instances	865
Typical Properties	stage classification , general classification of race participants , destination point , ProCyclingStats race ID , cumulative elevation gain , event distance , start point , teams classification by points , combination classification , series ordinal , teams classification by time , young rider classification , Cycling Archives race ID , points classification , CQ Ranking men's race ID ,

Classification

Direct superclasses

Direct subclasses

With instances 6 | With subclasses 6 | All 16

road bicycle racing 818 , time trial 31 , track cycling 6 , cyclo-cross 3 , bicycle touring 3 , mountain biking 2

All subclasses 44

Statements

Own statements | From related entities

practiced by	sport cyclist (someone who competes in the sport of cyclin
uses	bicycle (pedal-driven two-wheel vehicle)
different from	cycling (riding a bicycle)

Media

Commons category	Cycling (sport)
image	Petacchi MSR 2005.jpg

Wikimedia Categories and Portals

Own statements | From related entities

topic's main Wikimedia portal	Portal:Cycling (Wikimedia portal)
topic's main category	Category:Cycle sport (Wikimedia category)
Commons category	Cycling (sport)

Links

Wikidata page
Wikipedia article
Reasonator

Identifiers

Klexikon article ID	Radsport
STW Thesaurus for Economics ID	29830-0 mapping relation type : exact match (SKOS mapping relation (for use with P4390): two concepts have equivalent meaning, and the link can be exploited across a wide range of applications and schemes. The link is meant to be transitive.)
Encyclopædia Universalis ID	sport-...clisme
Great Russian Encyclopedia Online ID	1906129
Encyclopædia Britannica Online ID	topic/cycling
Iconclass notation	43C2132
BabelNet ID	00010253n
OSM tag or key	Tag:sp...ycling
NE.se ID	cykelsport
GND ID	4125280-9
Uppslagsverket Finland ID	Cykelsport

rich ontology

a bit of commonsense knowledge

external identifiers

Language	Label	Description	Also known as
English	Marina del Rey	census designated place	
Spanish	Marina del Rey	lugar de California	
Traditional Chinese	洛杉磯縣 (卡利福尼亞州)	No description defined	瑪麗安德爾灣 瑪麗安德爾灣（加州）
Chinese	馬里納戴爾雷伊	No description defined	瑪瑞娜戴爾瑞
Catalan	Marina del Rey	No description defined	
Cebuano	Marina del Rey	No description defined	
Czech	Marina del Rey	obec v Los Angeles County, Kalifornie	
Danish	Marina del Rey	No description defined	
German	Marina del Rey	Census-designated place im US-Bundesstaat Kalifornien	Marina del Rey, CA
Basque	Marina del Rey (Kalifornia)	No description defined	
Persian	مارینا دل ری، کالیفرنیا	No description defined	
French	Marina Del Rey	census-designated place	
Hebrew	מרינה דל ריי	No description defined	
Croatian	Marina del Rey (Kalifornija)	No description defined	
Italian	Marina del Rey	census-designated place statunitense della California	
Japanese	マリナ・デル・レイ	No description defined	マリナデルレイ
Korean	머리나델레이	No description defined	
Latin	Marina Del Rey	No description defined	
Malagasy	Marina del Rey	No description defined	
Min Nan Chinese	Marina del Rey	No description defined	
Norwegian Bokmål	Marina del Rey	No description defined	
Newari	मारिना डेल रे, क्यालिफोर्निया	No description defined	मारिना डेल रे (क्यालिफोर्निया)
Dutch	Marina del Rey	plaats in Los Angeles County	
Polish	Marina del Rey	No description defined	
Portuguese	Marina del Rey	No description defined	
Romanian	Marina del Rey	loc desemnat pentru recensământ	
Russian	Марина-дель-Рей	No description defined	
Serbo-Croatian	Marina del Rey	No description defined	
Serbian	Марина дел Реј	No description defined	
Swedish	Marina del Rey	No description defined	
Swahili	Marina del Rey	No description defined	Mdr
Ukrainian	Марина-дель-Рей	переписна місцевість, США, штат California	
Volapük	Marina del Rey	No description defined	
Waray	Marina del Rey, California	No description defined	
Chinese (China)	洛杉矶县 (卡利福尼亚州)	No description defined	玛丽安德尔湾
Simplified Chinese	玛丽安德尔湾	No description defined	玛丽安德尔湾（加州）

multi-lingual

cycle sport (Q2215841)

competitive physical activity using bicycles

bicycle sport | bike sport | cycling sport | sport cycling | sports cycling | cycling sports

+ In more languages

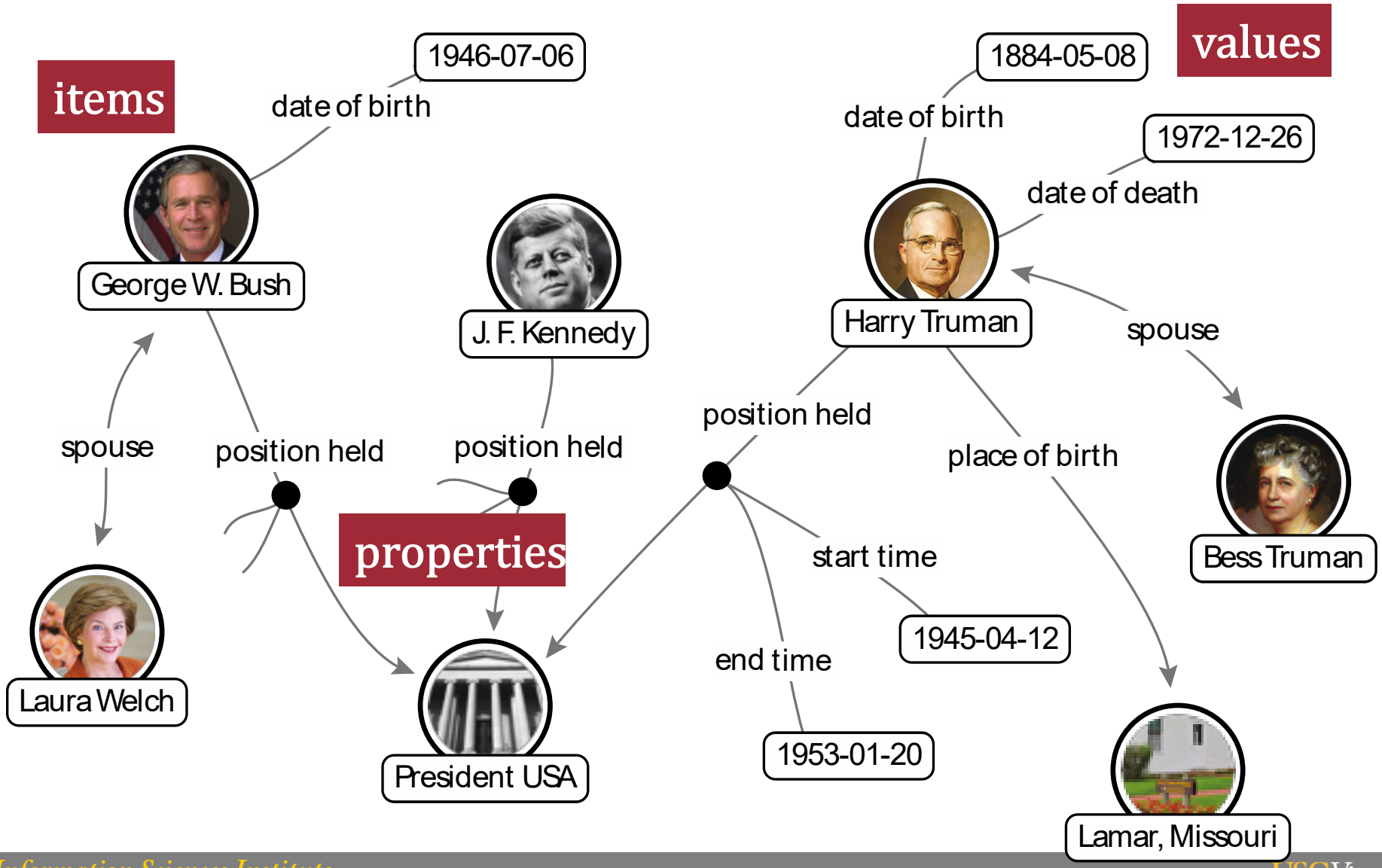
Configure

Language	Label	Description	Also known as
English	cycle sport	competitive physical activity using bicycles	bicycle sport bike sport cycling sport sport cycling sports cycling cycling sports
Spanish	ciclismo de competición	competencia deportiva en donde se usan varios tipos de bicicletas	ciclismo de competicion
Traditional Chinese	自行車運動	No description defined	
Chinese	自行車運動	体育竞技	專業單車手 單車競技 自由車 自行车运动
Arabic	سباق الدراجات الهوائية	No description defined	
Asturian	ciclismu de competición	competición deportiva onde s'usen bicicletes	deporte ciclista ciclismu deportivu
Azerbaijani	velosiped idmanı	No description defined	
Belarusian	Веласпорт	No description defined	
Belarusian (Taraškievica orthography)	роварны спорт	No description defined	валяспорт
Catalan	ciclisme de competició	Esport	
Central Kurdish	پاسکیل سواری	No description defined	
Czech	sportovní cyklistika	sport používající bicykly	cyklosport závodní cyklistika
Welsh	chwaraeon seiclo	No description defined	
Danish	cykelsport	No description defined	
German	Radsport	Sportart, die mit dem Fahrrad ausgeführt wird	Velosport
Swiss High German	Radsport	No description defined	
Greek	ποδηλασία	άθλημα	
Canadian English	Bicycle racing	No description defined	
British English	Bicycle racing	No description defined	
Esperanto	biciklo sporto	No description defined	
Estonian	jalgrattasport	No description defined	
Basque	bizikindularitza	No description defined	
Persian	ورزش دوچرخه‌سواری	فعالیت بدنی رقابتی با استفاده از دوچرخه	
Finnish	kilpapyöräily	polkupyörän ajamista kilpaa	
French	cyclisme	sport de course à vélo	cyclisme sportif sport cycliste cyclisme de compétition
Western Frisian	Hurdfytse	No description defined	
Irish	spórt rothaíochta	No description defined	
Hebrew	מרוץ אופניים	No description defined	
Hungarian	kerékpársport	No description defined	
Armenian	հեծանվային սպորտ	No description defined	հեծանվասպորտ
Interlingue	Ciclisme	No description defined	
Italian	ciclismo	sport in cui si utilizza la bicicletta	
Japanese	自転車競技	No description defined	
Kabiye	Ccccc sao aleyya	No description defined	
Kazakh	Велосипед спорты	No description defined	
Korean	자전거 경기	자전거를 타고 서로 겨루는 운동 경기이다.	
Kyrgyz	Велосипед спорттун түрү	No description defined	
Luxembourgish	Vëlossport	Sport dee mam Vëlo gemaach gëtt	
Limburgish	Fietsrenne	No description defined	
Lithuanian	Dviračių sportas	No description defined	
Latvian	riteņbraukšanas sports	No description defined	
Macedonian	велосипедски спорт	No description defined	
Marathi	सायकलिंग	No description defined	
Min Nan Chinese	Thih-bê kèng-châu	No description defined	
Norwegian Bokmål	sykling	sport	sykkelsport
Low German	Radsport	No description defined	
Low Saxon	Wielrennen (sport)	No description defined	
Dutch	wielersport	No description defined	wielrennen
Norwegian Nynorsk	sykling	No description defined	sykkelsport
Occitan	ciclisme	No description defined	
Polish	wyścigi kolarskie	No description defined	
Portuguese	ciclismo de competição	No description defined	competição de ciclismo
Russian	велосипедный спорт	спортивные состязания на велосипедах	спорт на велосипедах велоспорт
Slovak	športová cyklistika	druh športu, pri ktorom sa používajú bicykle	
Slovenian	športno kolesarstvo	No description defined	
Albanian	çiklizëm	aktivitet fizik konkurrues duke përdorur biçikleta	sport çiklizmi
Serbian	бициклистички спорт	No description defined	
Swedish	cykelsport	fysiska tävlingsaktiviteter med cyklar	
Tamil	மிதிவண்டி ஓட்டப் போட்டி	மிதிவண்டி வைத்து விளையாடப்படும் ஒரு விளையாட்டு வகை	
Thai	การแข่งขันจักรยาน	No description defined	
Turkish	bisiklet sporu	bisiklet kullanılarak rekabet edilen fiziksel aktivite	
Tatar	Велосипед спорты	No description defined	
Ukrainian	велосипедні гонки	спортивні змагання на велосипедах	велоспорт
Uzbek	Velosiped sporti	No description defined	
Venetian	Xiclismo	No description defined	
Vietnamese	xe đạp thể thao	No description defined	đạp xe thể thao đua xe đạp
Chinese (China)	自行车运动	No description defined	
Simplified Chinese	自行车运动	No description defined	
Chinese (Hong Kong)	單車運動	No description defined	
Chinese (Macau)	單車運動	No description defined	
Chinese (Malaysia)	自行车运动	No description defined	
Chinese (Singapore)	自行车运动	No description defined	
Chinese (Taiwan)	自由車運動	No description defined	

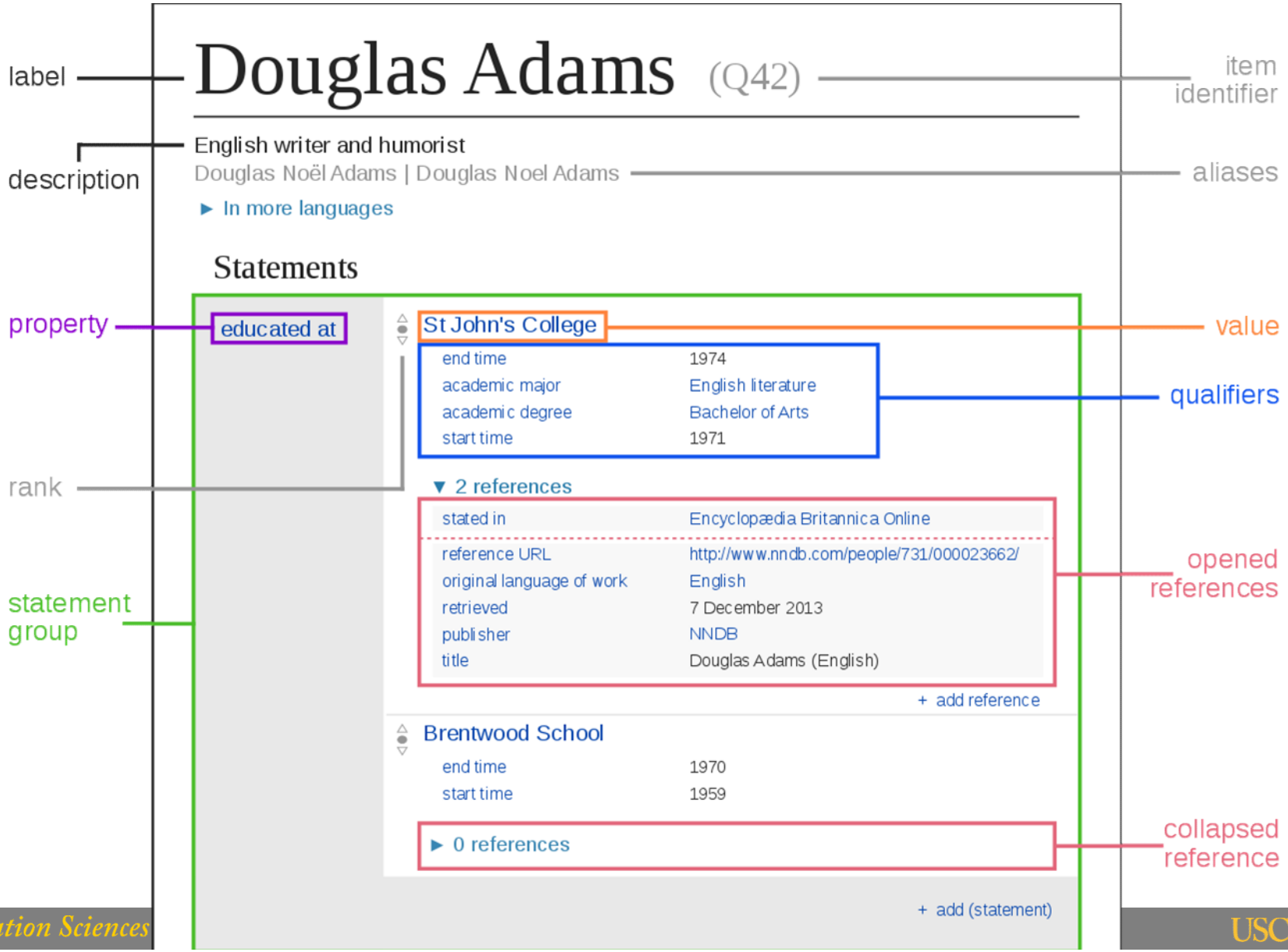
Viterbi

The Wikidata Data Model

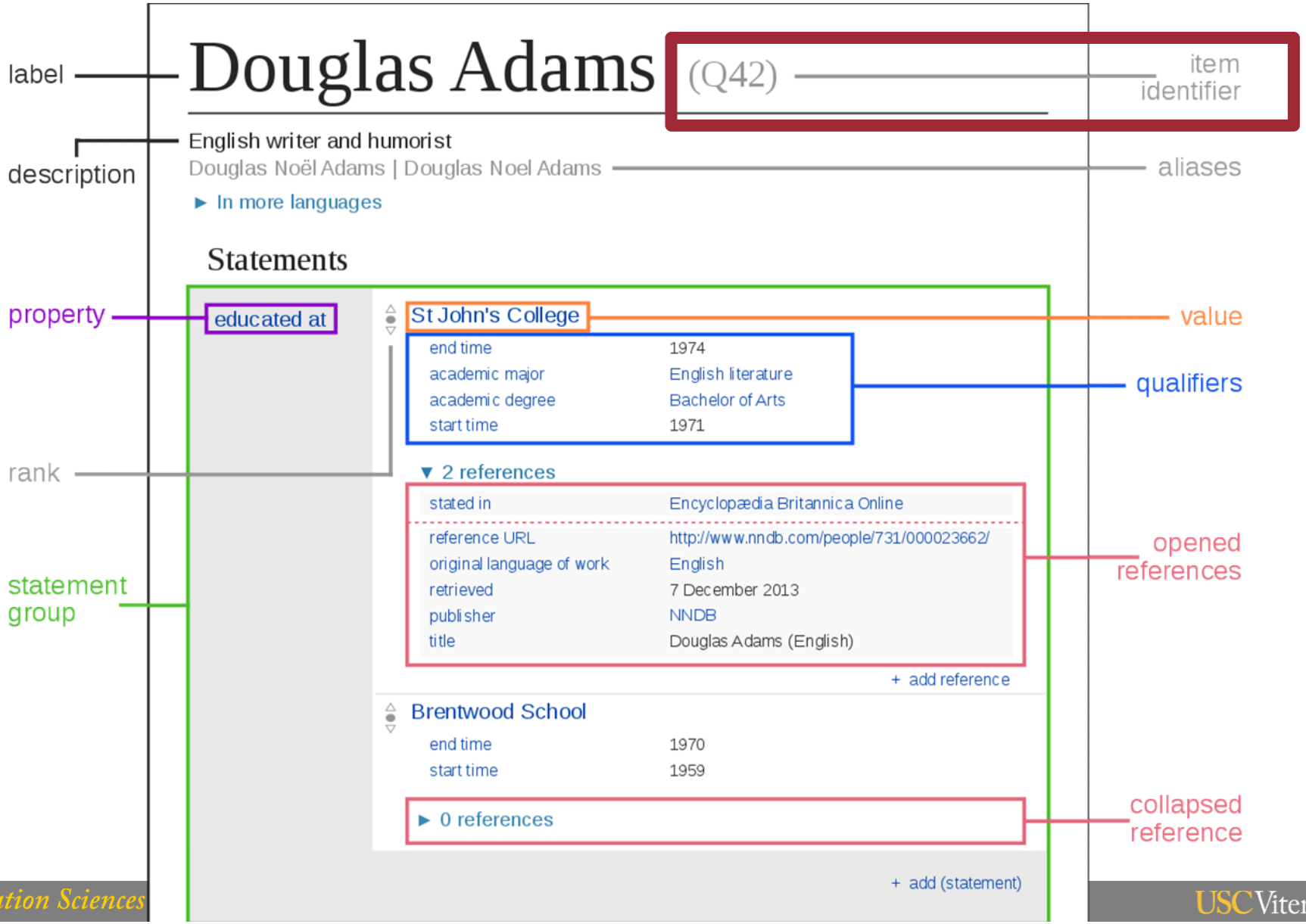
Wikidata Is A Knowledge Graph



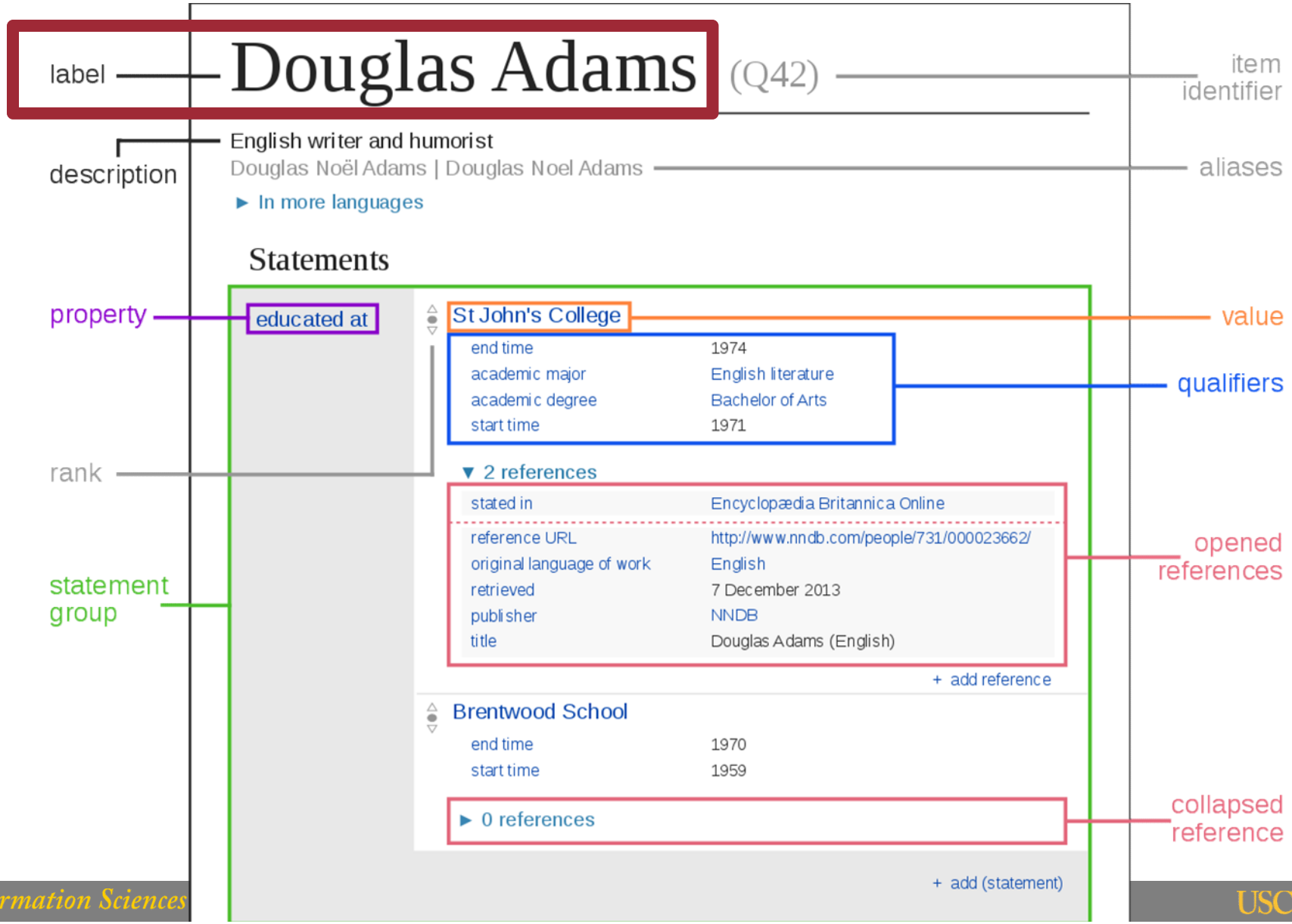
Data Model


label
Douglas Adams
(Q42)
item identifier
description
English writer and humorist
aliases
Douglas Noël Adams | Douglas Noel Adams
► In more languages
Statements
property
educated at
St John's College
value
end time 1974
academic major English literature
academic degree Bachelor of Arts
start time 1971
qualifiers
rank
▼ 2 references
stated in Encyclopædia Britannica Online
reference URL http://www.nndb.com/people/731/000023662/
original language of work English
retrieved 7 December 2013
publisher NNDB
title Douglas Adams (English)
opened references
+ add reference
statement group
Brentwood School
end time 1970
start time 1959
► 0 references
collapsed reference
+ add (statement)

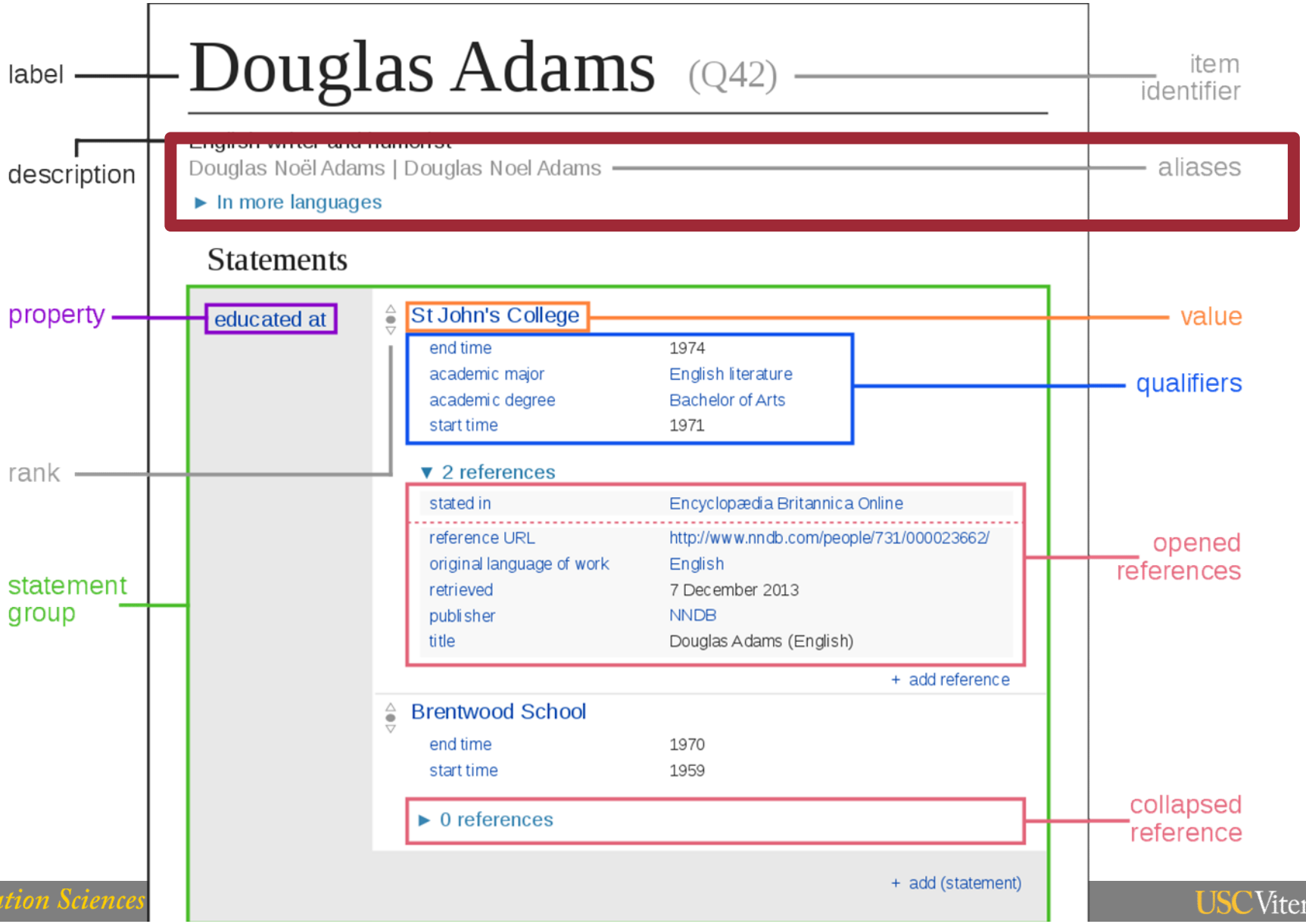
Data Model: Identifier (q-node)



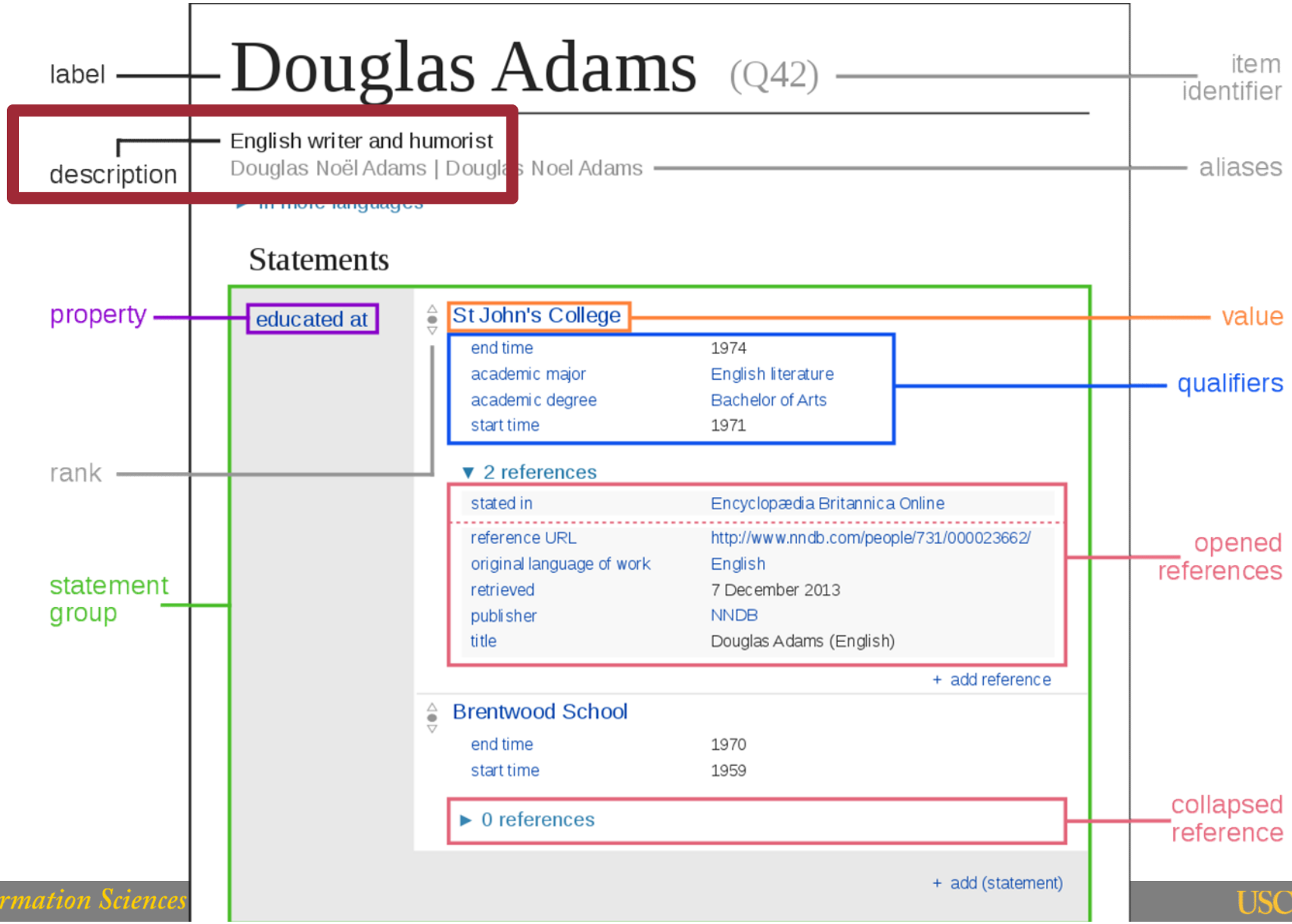
Data Model: Multi-Lingual Labels



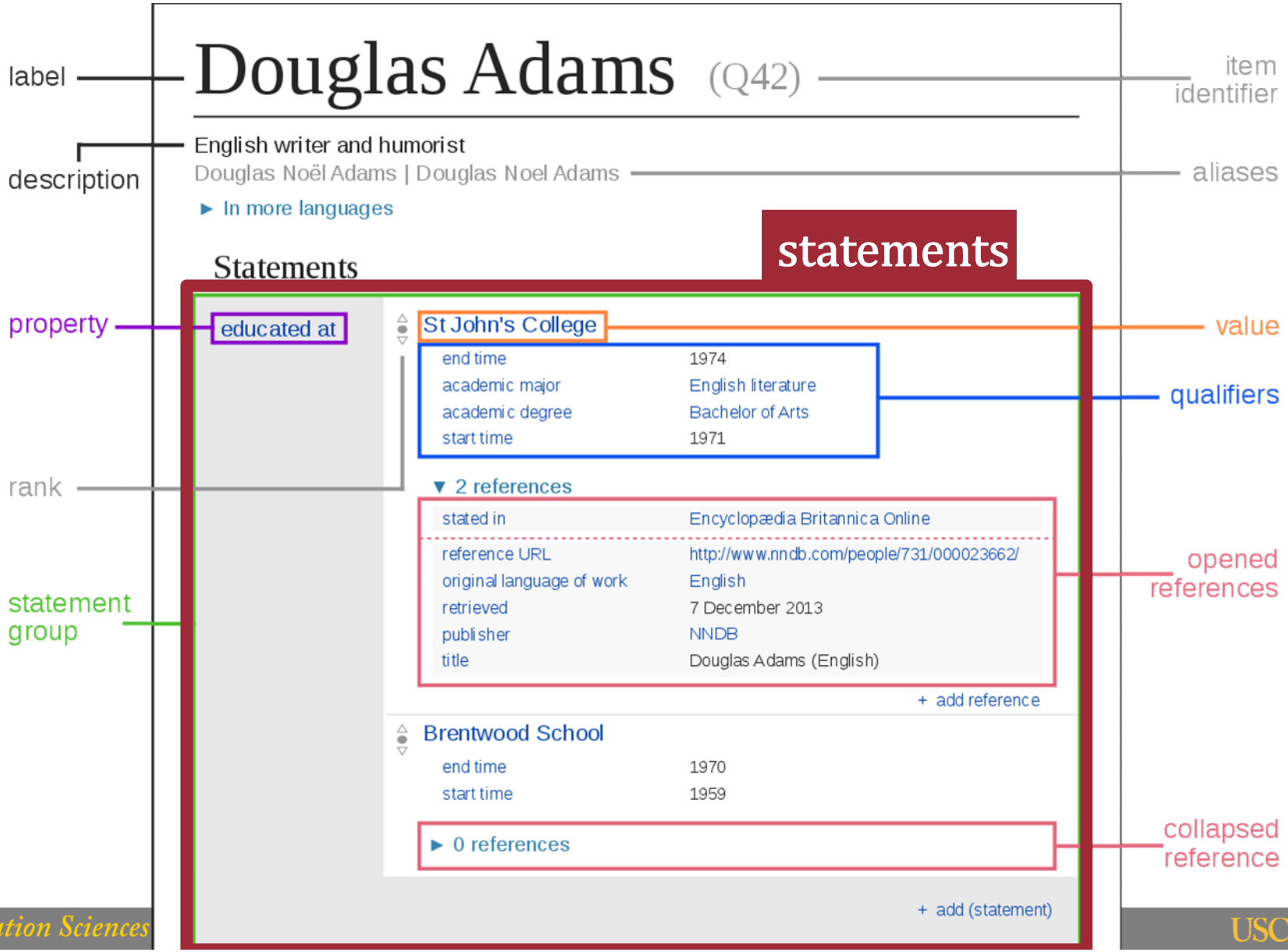
Data Model: Multi-Lingual Aliases



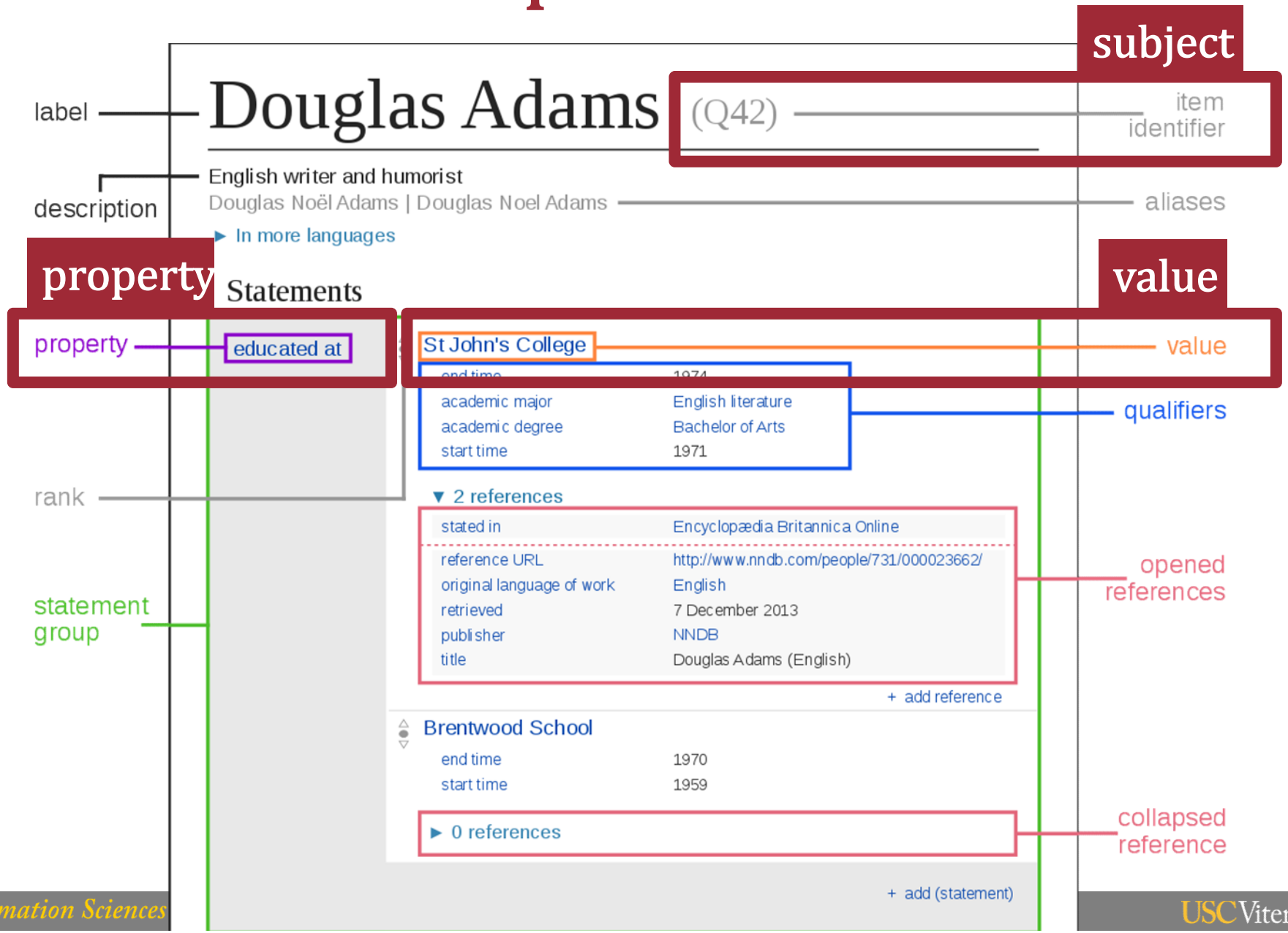
Data Model: Multi-Lingual Descriptions



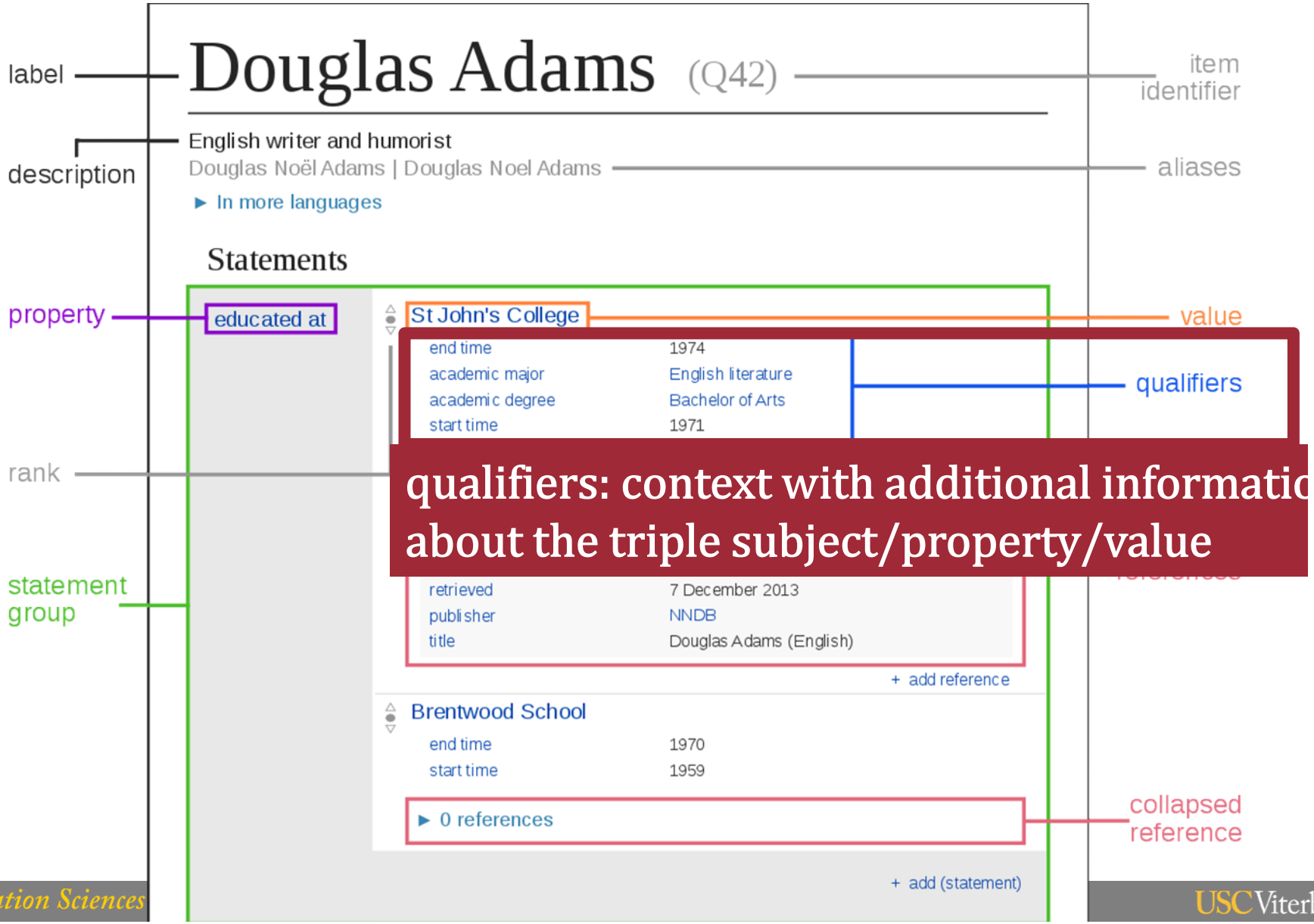
Data Model: Statements



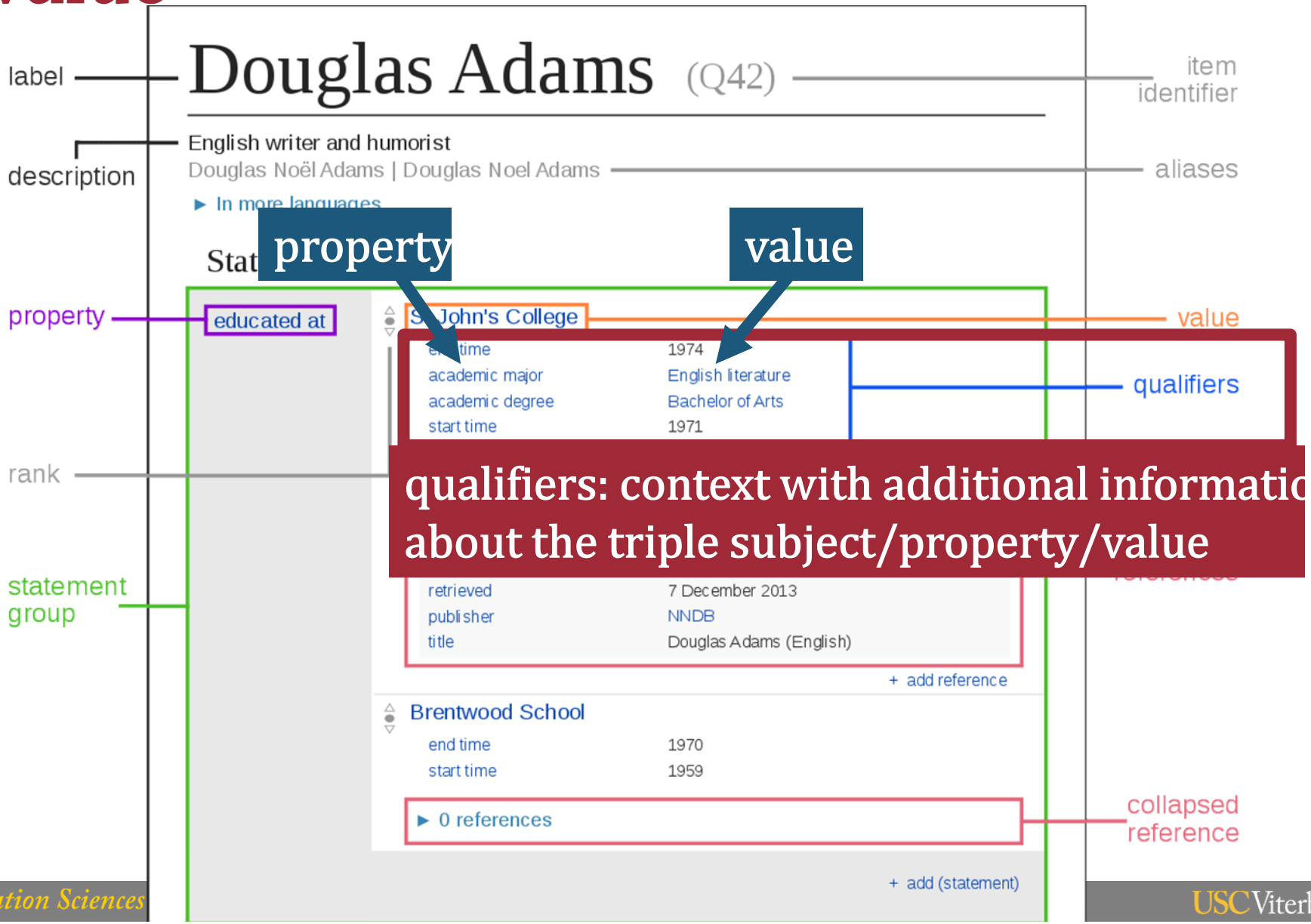
Data Model: Triples



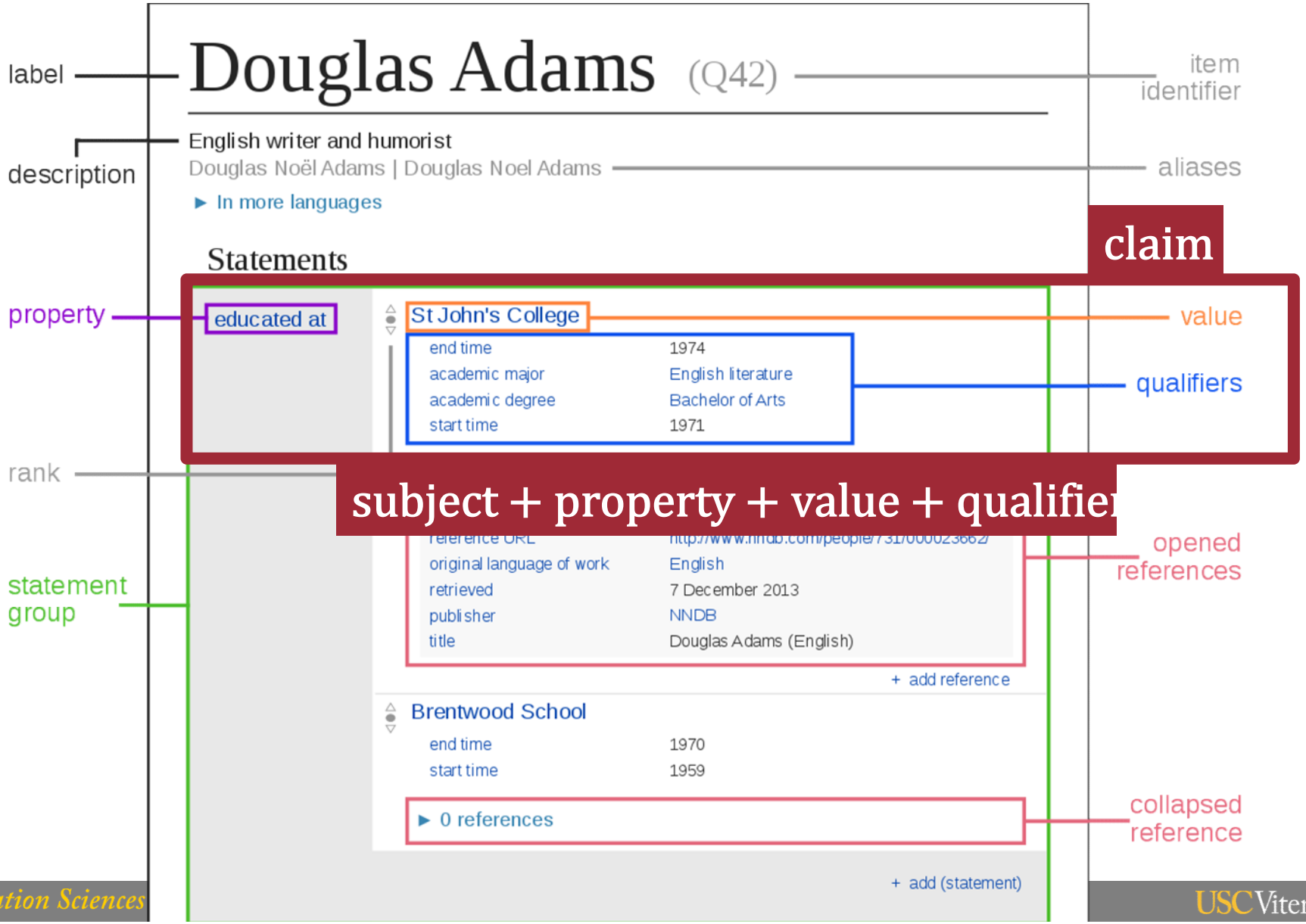
Data Model: Qualifiers



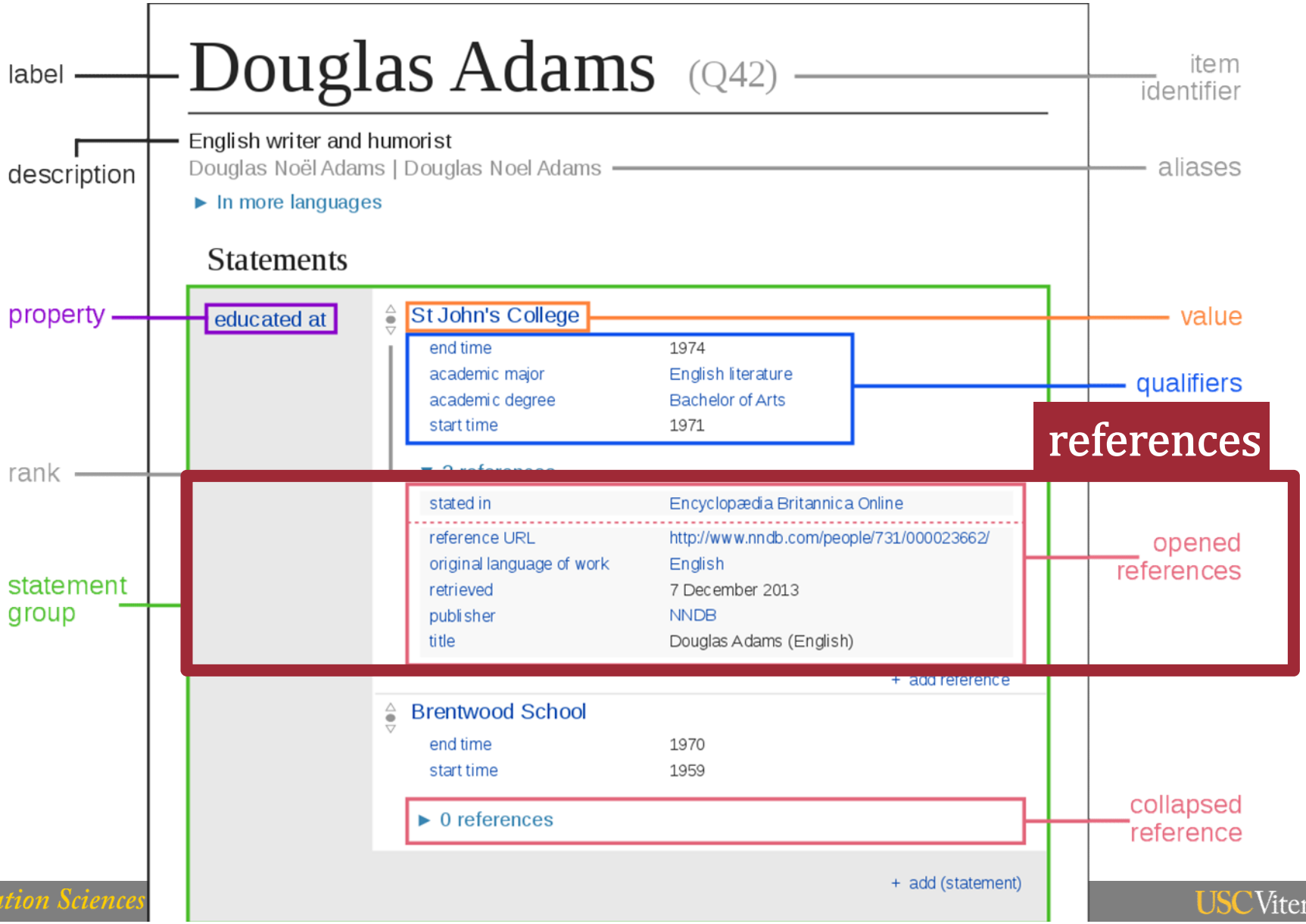
Data Model: Qualifiers = property + value



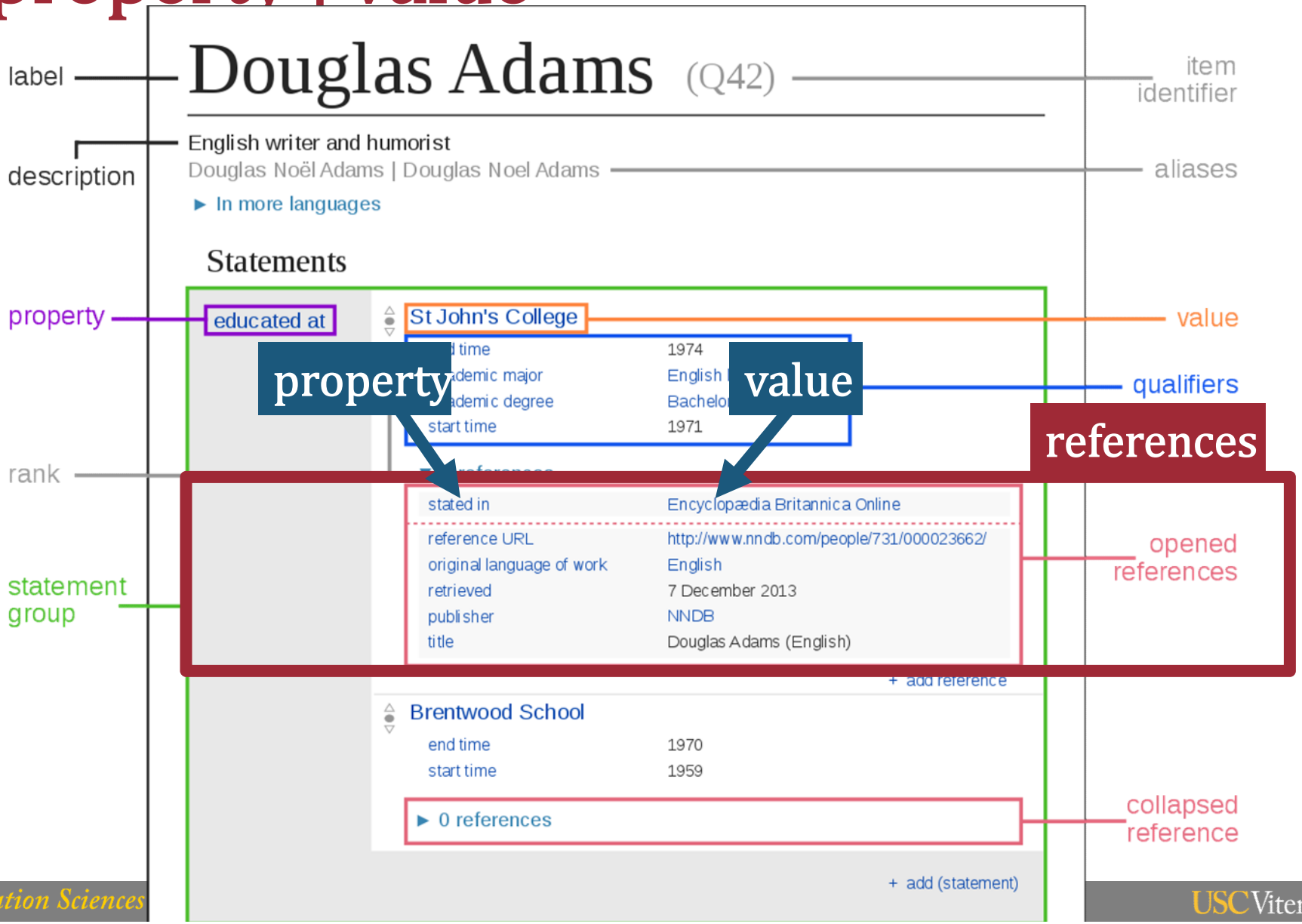
Data Model: Claims



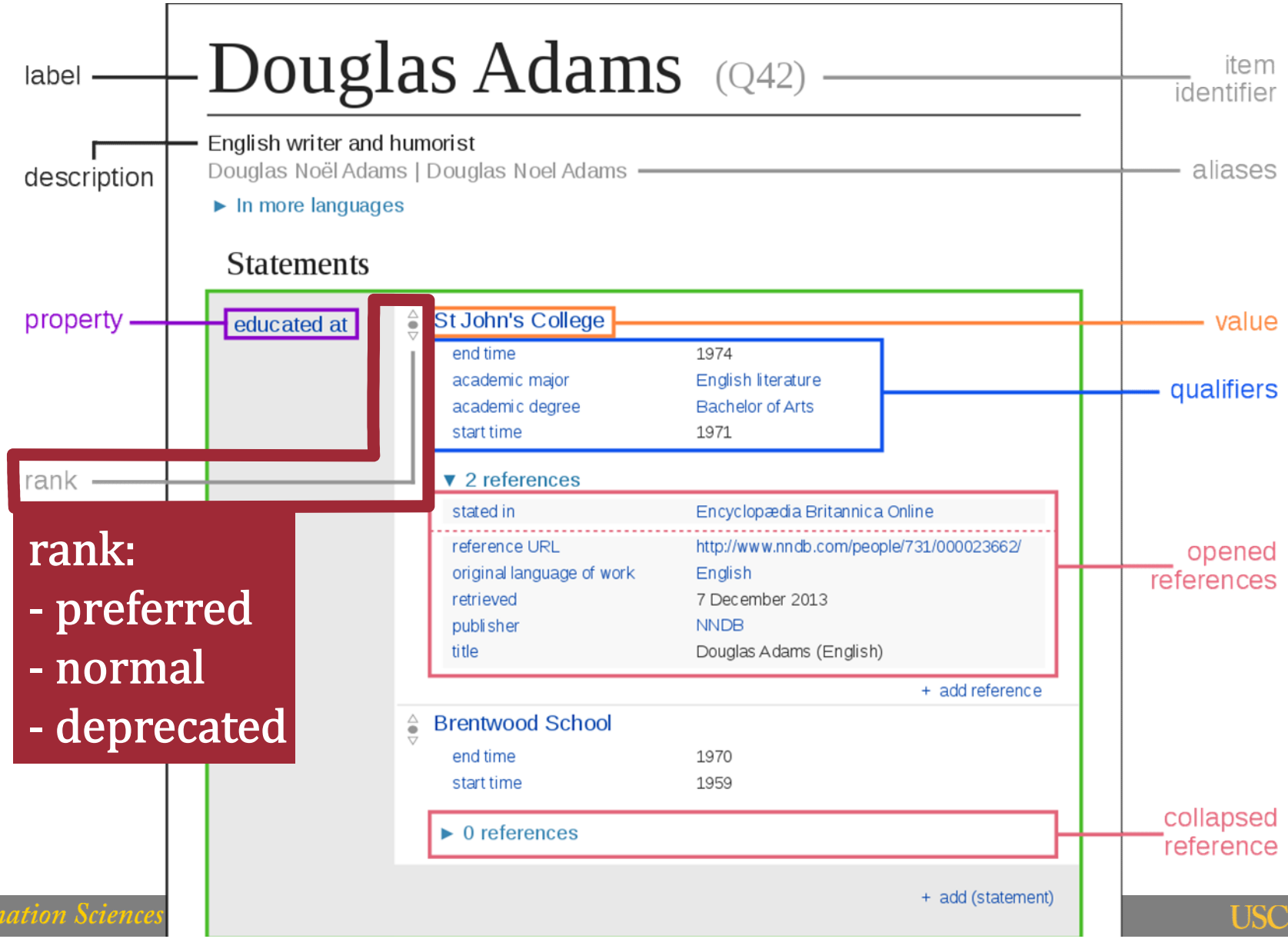
Data Model: References



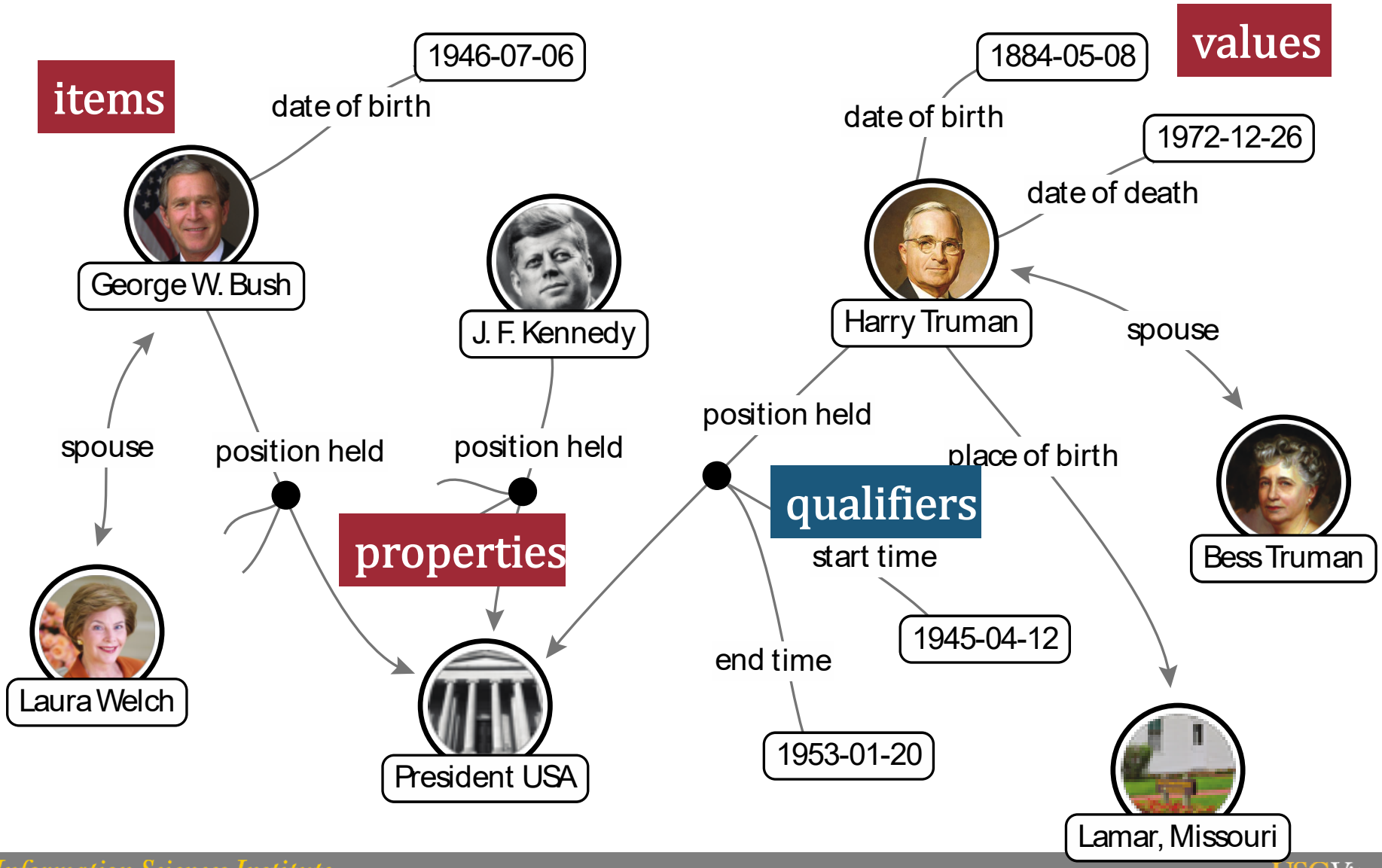
Data Model: Reference = property+value



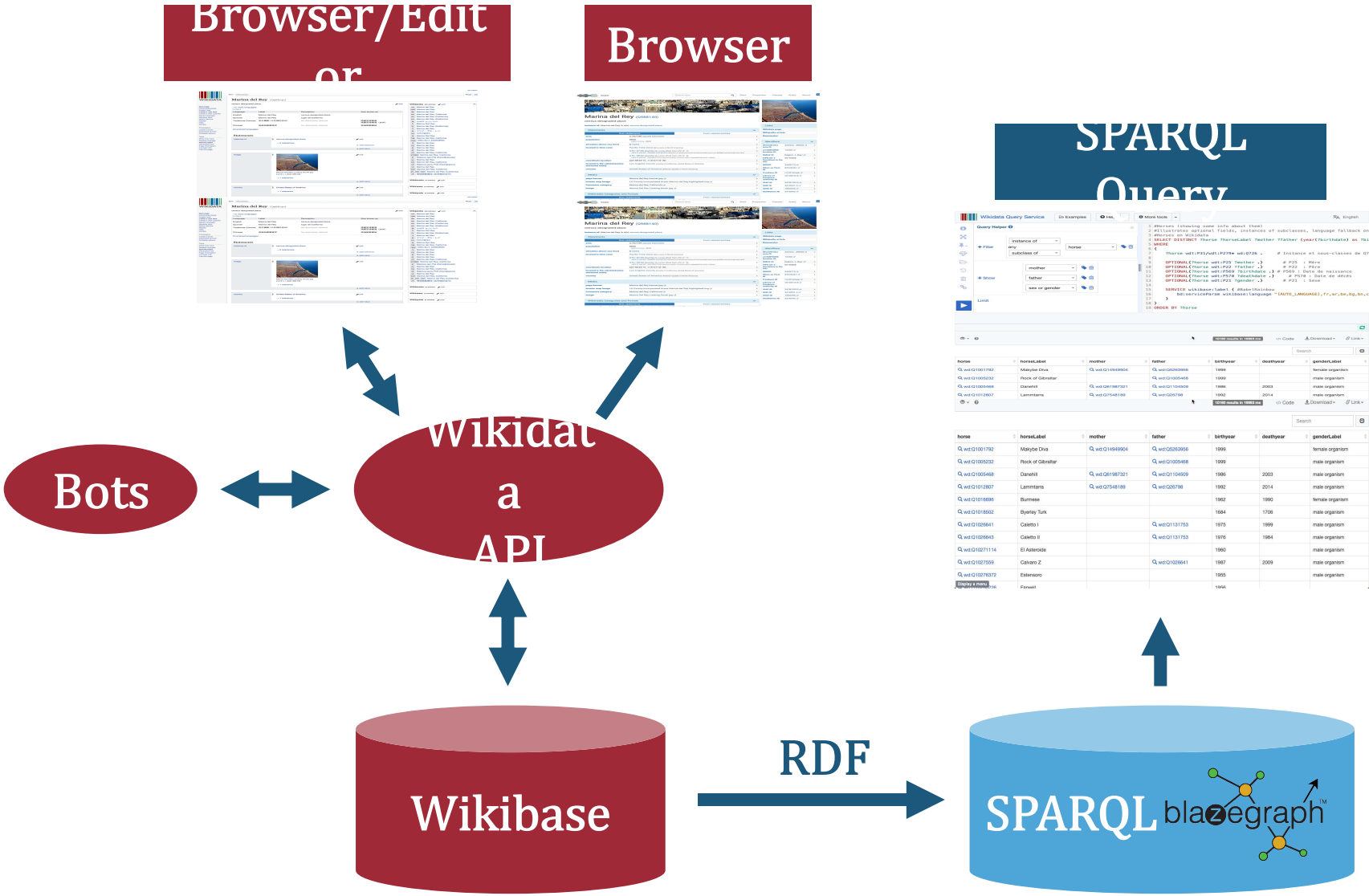
Data Model: Statement Rank



Wikidata Is A Knowledge Graph

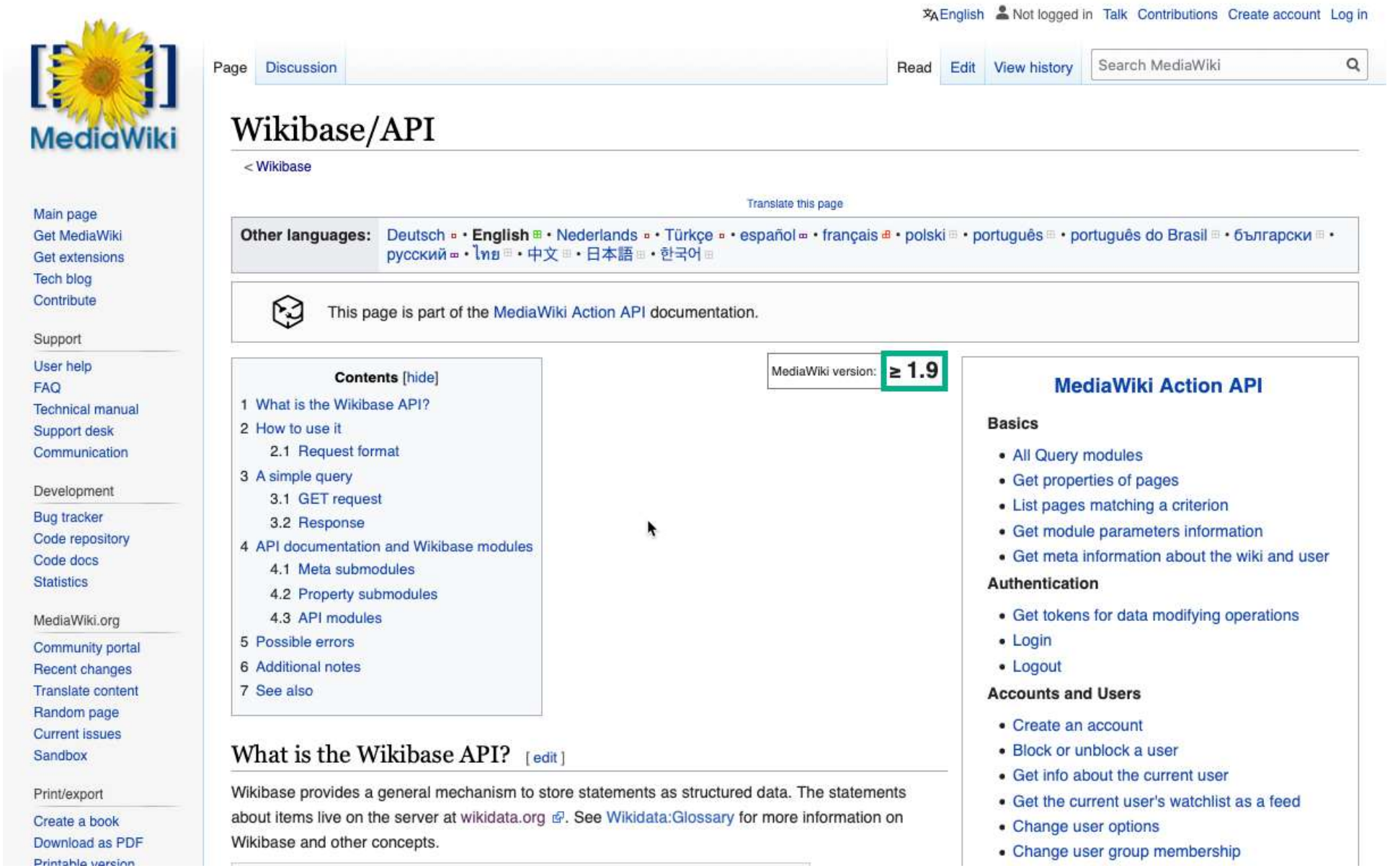


Wikidata Architecture



Wikibase API

https://www.mediawiki.org/wiki/Wikibase/API



Wikidata JSON Format

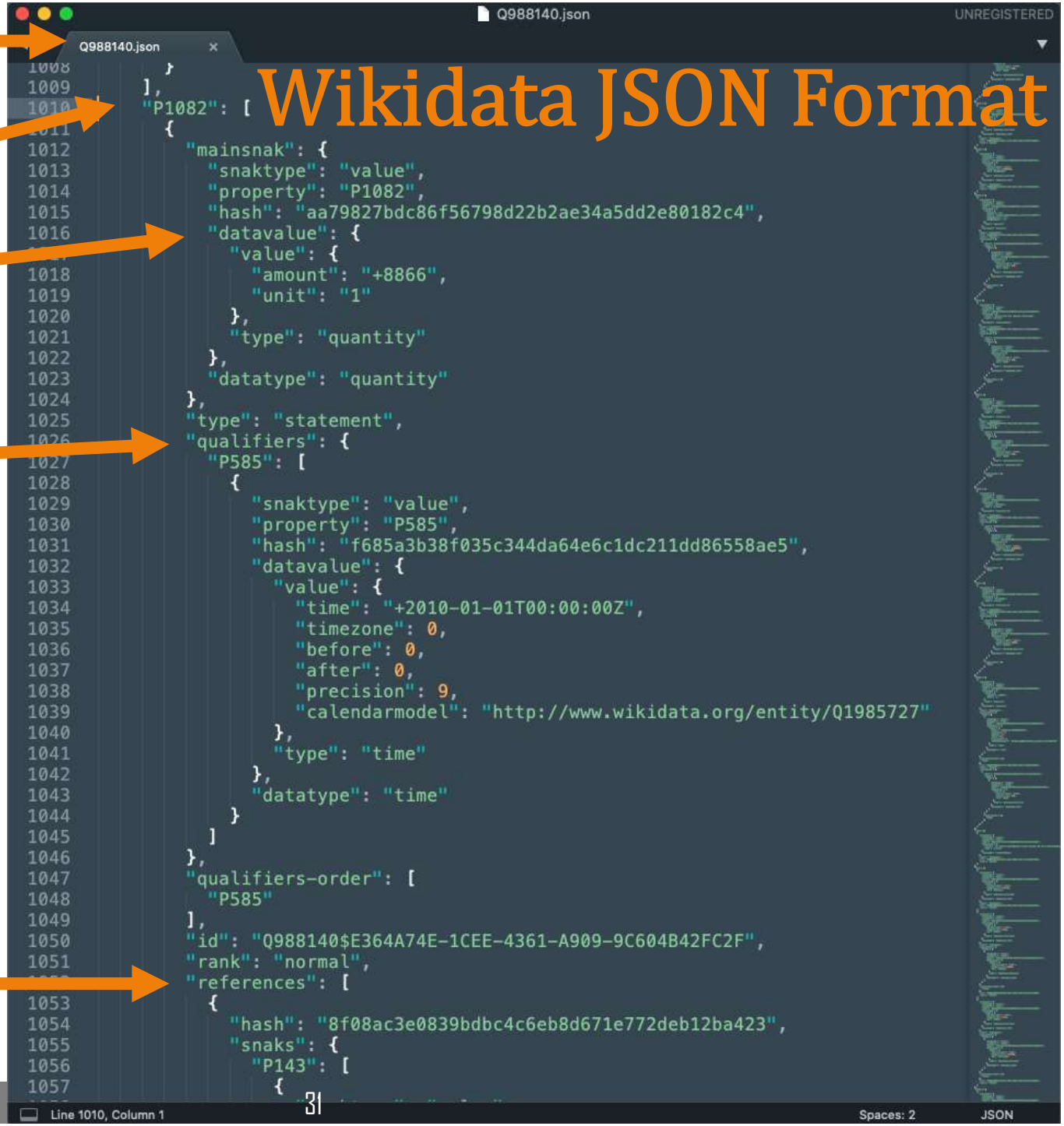
items

property

values

qualifiers

references



Comparison With DBpedia, YAGO and Cyc

Wikidata Data Model

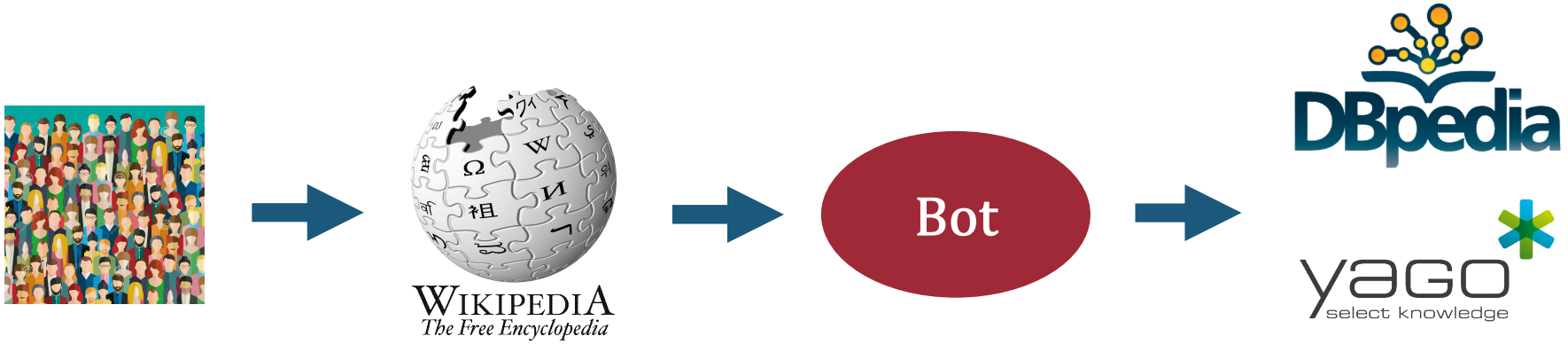
Dbpedia and YAGO: RDF Triples

subject + property + value

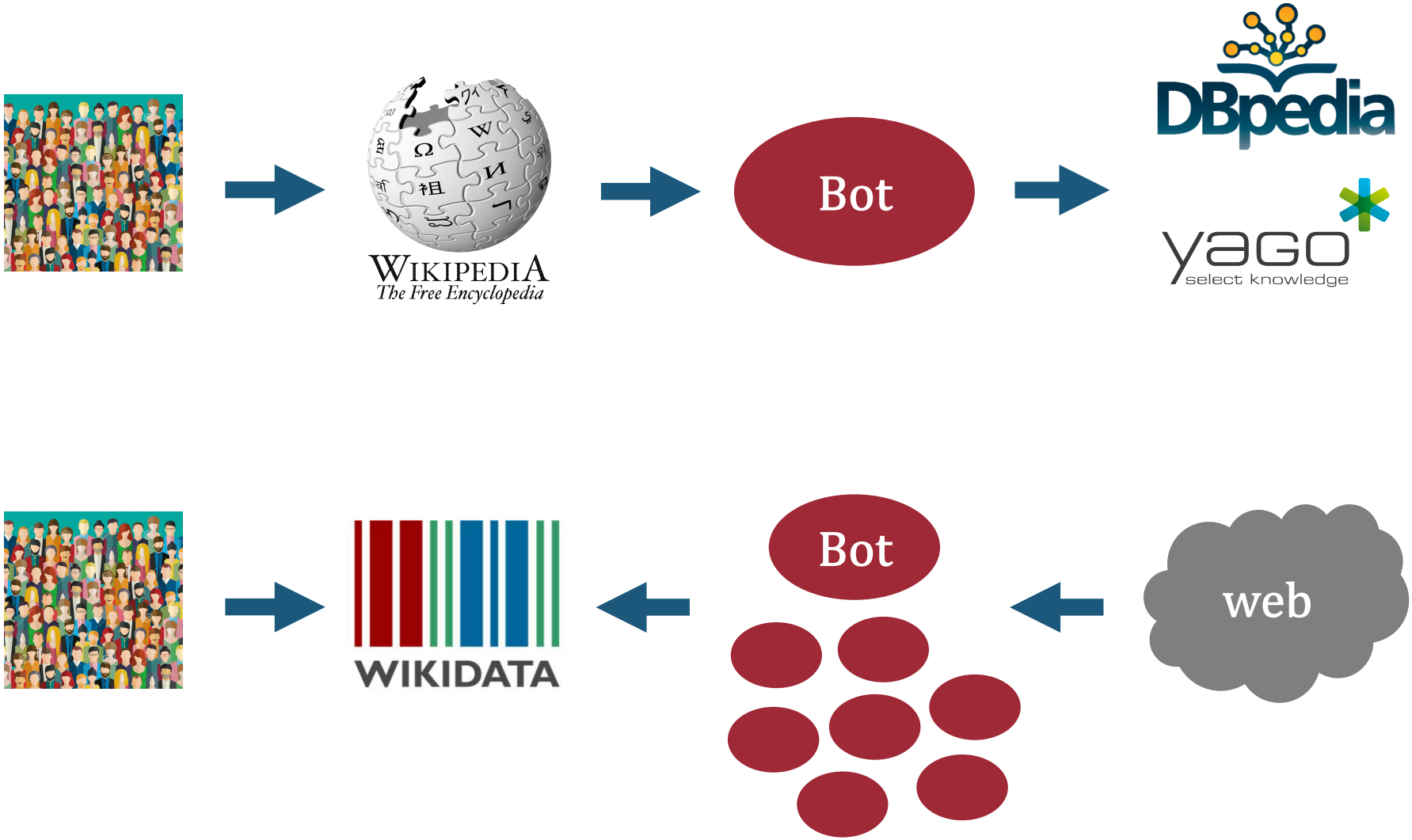
Wikidata Statements

subject + property + value + qualifiers + references

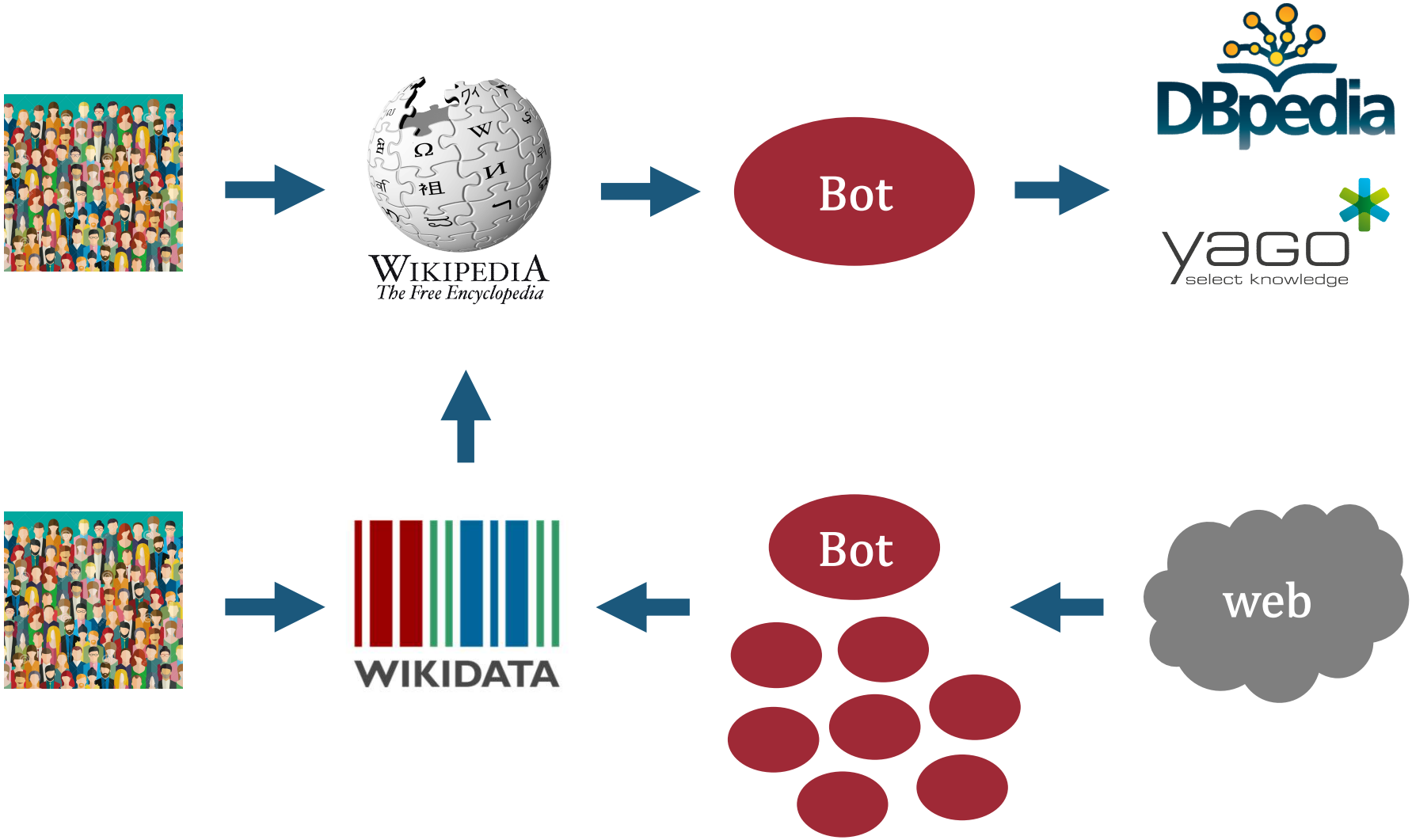
DBPedia & YAGO: Built From Wikipedia



Wikidata: Crowdsourced + Bots



Wikidata Feeds Wikipedia Infoboxes



Cyc

https://www.cyc.com/

Cycorp

The Cyc Platform | Products | Resources | Careers | About Us | Request A Demo | Customer Login

CYC'S KNOWLEDGE BASE > 10,000 predicates
> 25M assertions

The World's Broadest and Deepest Common Sense Knowledge Base

Practical, Retargetable, and Reusable Real-World Knowledge

Cyc has the world's broadest and deepest common sense knowledge base (KB), by orders of magnitude. The KB is not a database – it consists of real world axioms that Cyc uses to reason about the world and understand your data. Cyc's KB includes more than 10,000 predicates, millions of collections and concepts, and more than 25 million assertions. When coupled with the inference engines, Cyc can quickly prove trillions of bits of usable, real world knowledge.

While the size of the KB is impressive, Cycorp's chief goal is quality over quantity. Knowledge is represented as generally as possible so that it can be broadly reused and efficiently reasoned with. For example, rather than express that "nurses require medical training" and "doctors require medical training" and "paramedics require medical training", Cyc only has one assertion that all medical professionals require medical training. In terms of counting, this is just one piece of knowledge, but that knowledge can be efficiently re-targeted to prove the relevant claim for any particular type of medical professional. For another example, Cyc knows that "If a conduit is pinched, then pressure builds upstream and decreases downstream." This fact about fluid dynamics applies to blood in veins, oil in pipes, milkshakes in drinking straws, and so on.

Wikidata “Ontology”

No OWL file
No RDF Schema file

… but there is a very large “Ontology”

instance of (P31)

SQID | Search Item | Start | Properties | Classes | Rules | About | Login

Kristabel Doebel-Hickok (Q19757547)

American bicycle racer

instance of: Kristabel Doebel-Hickok is a(n) human

Statements

Own statements | From related entities

member of sports team	Rally Cycling (United States women's cycling team) start time : 2019
	Cylance Pro Cycling (United States women's cycling team) start time : 2016 end time : 2018
	Team TIBCO (women's cycling team) start time : 2014 end time : 2015
sport	cycle sport (competitive physical activity using bicycles)
country of citizenship	United States of America (federal republic in North America)
place of birth	Marina del Rey (census designated place)
date of birth	1989-04-28
occupation	sport cyclist (someone who competes in the sport of cycling)
sex or gender	female (human gender (use with P21))

Media

image	Krista Doebel-Hickok, Giro Rosa 2016.jpg media legend : Au Tour d'Italie 2016 [fr]

Links

Wikidata page

Wikipedia article

Reasonator

Identifiers

ProCyclingStats cyclist ID	179437
Cycling	98235

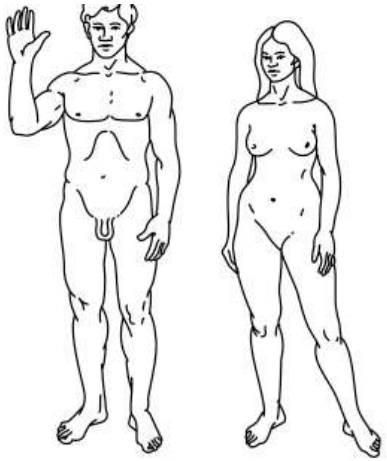
subclass of (P279)

human (Q5)

human being | humankind | people | homosapiens | person

common name of Homo sapiens, unique extant species of the genus Homo

subclass of: every human is also a(n) person, natural person, omnivore
instance of: human is a(n) group of organisms known by one particular common name



Instances

Direct instances	4 Yanka Kupala , František Plánička , Augusto Pinochet , Julian Assange , Blanche of Castile , Adolf Hitler , Piet Kraak , Louis IX of France , Patricio Aylwin , Nicolas Sarkozy , Ricardo Lagos , Eduardo Frei Ruiz-Tagle , Michelle Bachelet , Galileo Galilei , Sebastian Piñera , El Greco , Elvis Presley , Diego Velázquez , Claude Monet , Paul Morand , ... further results
All instances	5511999
Typical Properties	occupation , sex or gender , date of birth , country of citizenship , given name , place of birth , family name , date of death , VIAF ID , educated at , ISNI , place of death , Library of Congress authority ID , languages spoken, written or signed , position held , GND ID , employer , ORCID iD , sport , member of sports team , CBDB ID , name in native language , SUDOC authorities ID ,

Classification

Direct superclasses	person 5567561 , natural person 5512007 , omnivore 5511999
Direct subclasses	With instances 24 | With subclasses 48 | All 178 female 491 , woman 394 , male 227 , elected person 153 , spouse 114 , person of color 83 , technician 61 , child 54 , migrant 37 , Guantanamo Bay detainees 36 , citizen 19 , candidate 14 , Caucasian 12 , missing person 11 , acquaintance 10 , inhabitant 9 , sick person 9 , patient 8 , widow or widower 8 , accused 7 , anonymous 6 , eligible voter 6 , disabled person 6 , substitute 5 , adult human 5 , vacationer 5 , prenate 4 , teenager 4 , women in STEM fields 4 , Israelis 3 , live person 3 , lover 2 , bog body 2 , suspect 2 , alumnus 2 , conscientious objection 2 , Military dependent 2 , Vulnerable person 2 , Disadvantaged 1 , special purpose artist 1 , drug user 1 , subject 1 , colleague 1 , municipality president 1 , dead person 1 , anatomically modern human 1 , centenarian 1 , plantsman 1
All subclasses	1474

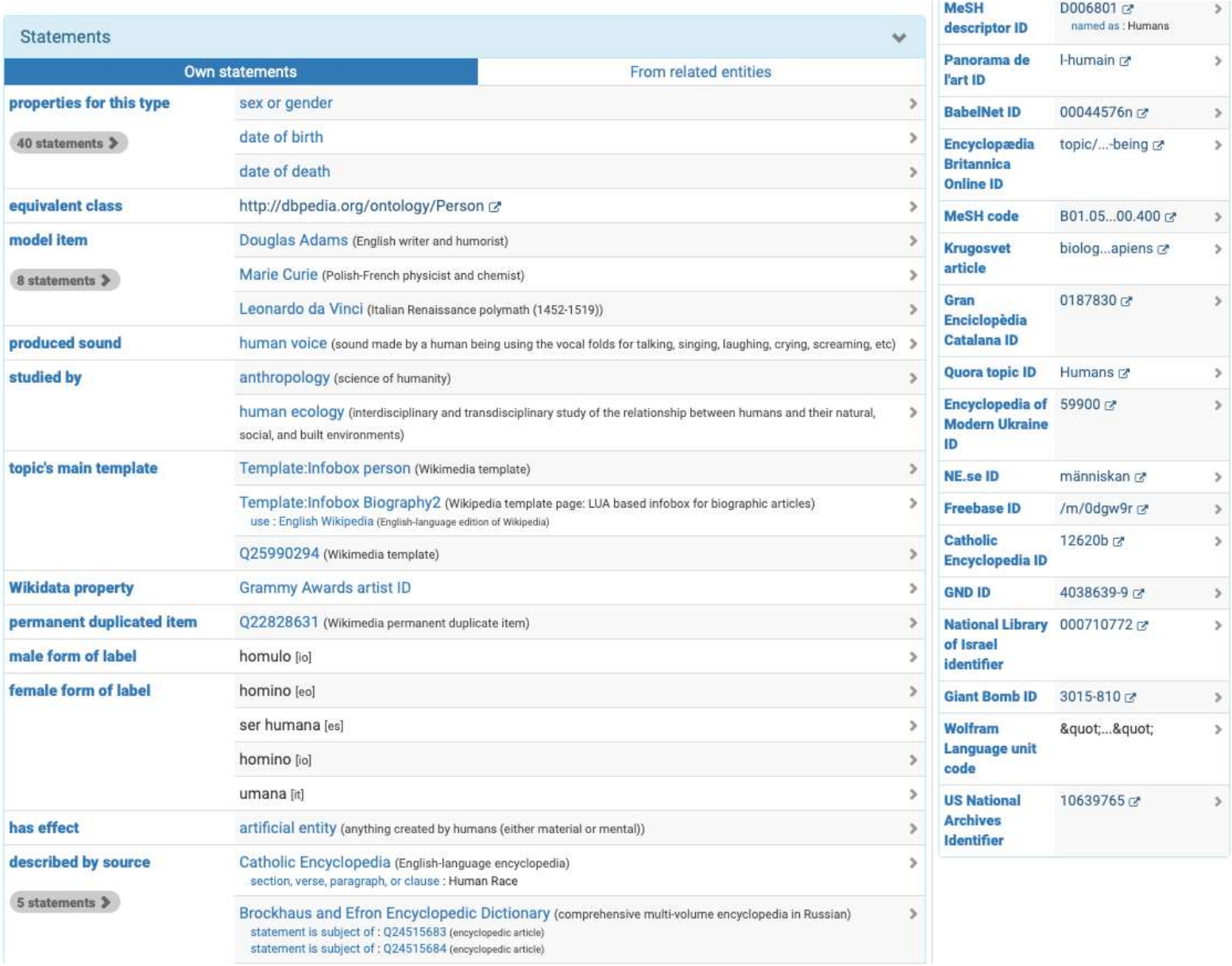
Links

Wikidata page
Wikipedia article
Reasonator

Identifiers

Klexikon article ID	Mensch
Wolfram Language entity type	Person
PSH ID	2693
OmegaWiki Defined Meaning	2234
NicoNicoPedia article ID	ヒト
JSTOR topic ID	humans
Australian Educational	scot/1144

“Classes” Are Items (e.g., Human)



Statements

Own statements | From related entities

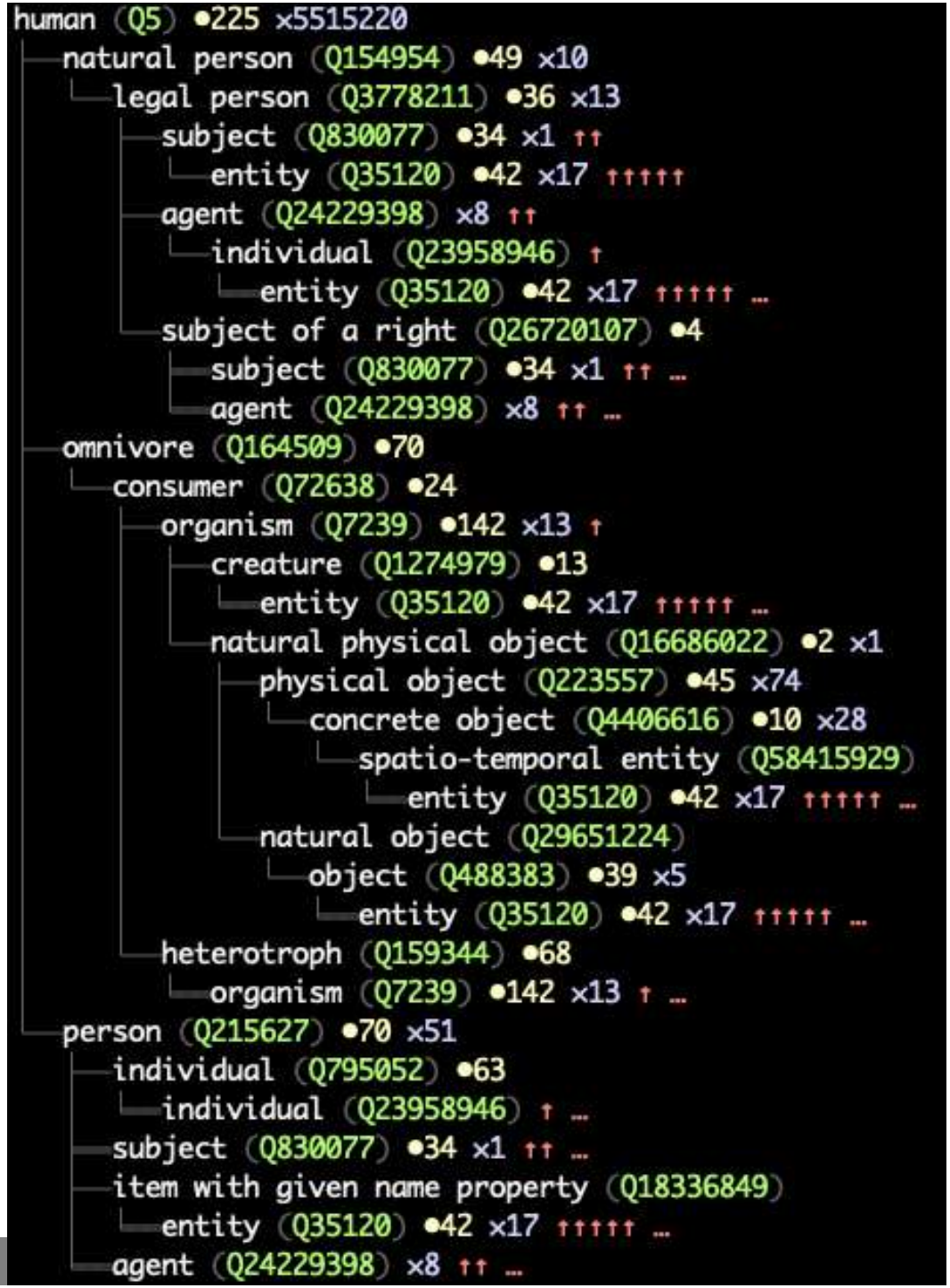
properties for this type	sex or gender
40 statements	date of birth
	date of death
equivalent class	http://dbpedia.org/ontology/Person
model item	Douglas Adams (English writer and humorist)
8 statements	Marie Curie (Polish-French physicist and chemist)
	Leonardo da Vinci (Italian Renaissance polymath (1452-1519))
produced sound	human voice (sound made by a human being using the vocal folds for talking, singing, laughing, crying, screaming, etc)
studied by	anthropology (science of humanity)
	human ecology (interdisciplinary and transdisciplinary study of the relationship between humans and their natural, social, and built environments)
topic's main template	Template:Infobox person (Wikimedia template)
	Template:Infobox Biography2 (Wikipedia template page: LUA based infobox for biographic articles) use : English Wikipedia (English-language edition of Wikipedia)
	Q25990294 (Wikimedia template)
Wikidata property	Grammy Awards artist ID
permanent duplicated item	Q22828631 (Wikimedia permanent duplicate item)
male form of label	homulo [io]
female form of label	homino [eo]
	ser humana [es]
	homino [io]
	umana [it]
has effect	artificial entity (anything created by humans (either material or mental))
described by source	Catholic Encyclopedia (English-language encyclopedia) section, verse, paragraph, or clause : Human Race
5 statements	Brockhaus and Efron Encyclopedic Dictionary (comprehensive multi-volume encyclopedia in Russian) statement is subject of : Q24515683 (encyclopedic article) statement is subject of : Q24515684 (encyclopedic article)

MeSH descriptor ID	D006801 named as : Humans
Panorama de l'art ID	l-humain
BabelNet ID	00044576n
Encyclopædia Britannica Online ID	topic/...-being
MeSH code	B01.05...00.400
Krugosvet article	biolog...apiens
Gran Enciclopèdia Catalana ID	0187830
Quora topic ID	Humans
Encyclopedia of Modern Ukraine ID	59900
NE.se ID	människan
Freebase ID	/m/0dgw9r
Catholic Encyclopedia ID	12620b
GND ID	4038639-9
National Library of Israel identifier	000710772
Giant Bomb ID	3015-810
Wolfram Language unit code	"..."
US National Archives Identifier	10639765

Large Class Hierarchy

2,464,270 classes:
items with a subclass of
(P279) property

63,672 classes with instances:
appear as values of instance of
(P31) property



Properties

inception (P571)

date founded | date created | incorporated | foundation | created | date of foundation | date of creation | established | establishment date | foundation date | creation date | incorporation date | date incorporated | date of incorporation | date of establishment | founding date | date of founding | date formed | formation date | formed on date | founded on date | incorporated on date | established on date | created on date | commencement date | date commenced | commenced on date | date of commencement | time of foundation or creation | date of foundation or creation | written on date | time of inception | year founded | year created | year incorporated | year written | year commenced | year established | date constructed | construction date | constructed | inititated | formation | dedication date | formed in | formed at | inaugurated | launch date | introduced | introduction | start date | completed | first issue | built | foundation/ creation date | founded

date or point in time when the subject came into existence as defined

Type: Time
subproperty of: every inception is also a(n) start time
instance of: inception is a(n) Wikidata property for items about organizations, Wikidata property with datatype 'time'

Property Usage

Entities	1713499 Venus of Petřkovice , Venus of Hohle Fels , Mehrgarh , Göbekli Tepe , Tel Megiddo , Venus of Laussel , Çatalhöyük , Knossos , Cave of Altamira , Venus of Willendorf , ... further results
Typical Properties	creator , inventory number , collection , official website , width , height , material used , location , headquarters location , image , described at URL , country , dissolved, abolished or demolished , LfDS object ID , IIIF manifest , depicts , National Gallery of Art artwork ID , located in the administrative territorial entity , coordinate location , IUCN protected areas category ,
Statements	1731900 (1.01 per entity)
Qualifiers	latest date 80852 , earliest date 79715 , sourcing circumstances 79150 , instance of 10430 , applies to part 8814 , stated as 4862 , start time 4458 , end time 4337 , refine date 2220 , statement is subject of 323 , has cause 151 , location 137 , object has role 123 , subject has role 103 , named as 98 , identity of subject in context 80 , of 70 ,
Uses as qualifier	1685
Uses in references	114

Statements

Own statements | From related entities

equivalent property	http://schema.org/foundingDate ★
subproperty of	start time
subject item of this property	date of establishment (date something was established)
Wikidata property example	Society of Jesus (male religious congregation of the Roman Catholic Church) inception : 1539
	Church of Saint Michael (church in Olomouc District of Olomouc region) inception : 1300
	Dracula (1897 Gothic horror novel by Irish author Bram Stoker) inception : 1890 start time : 1890-03-08 end time : 1897-05-26

property proposal discussion	https://www.wikidata.org/wiki/Wikidata:Property_proposal/Archive/8#P571
property constraint	single value constraint (type of constraint for Wikidata properties: used to specify that this property generally contains a single value per item) exception to constraint : Italian National Society separator : applies to part separator : applies to jurisdiction separator : named as separator : subject has role separator : identity of subject in context separator : series ordinal separator : nature of statement
7 statements	conflicts-with constraint (type of constraint for Wikidata properties: used to specify that an item must not have a given statement) property : instance of item of property constraint : Wikimedia disambiguation page (type of page in the Wikimedia system. Use with P31 'instance of' for disambiguation pages) item of property constraint : Wikimedia category (use with 'instance of' (P31) for Wikimedia category) item of property constraint : Wikimedia list article (page of a Wikimedia project with a list of something) group by : instance of
	allowed qualifiers constraint (type of constraint for Wikidata properties: used to specify that only the listed qualifiers should be used. Novalue disallows any qualifier) property : earliest date property : latest date property : sourcing circumstances property : instance of property : applies to part property : statement is subject of property : start time property : end time property : refine date property : has cause property : time index property : identity of subject in context property : subject has role property : applies to jurisdiction property : named as property : statement disputed by property : stated as property : location property : has quality property : quote property : object has role property : statement supported by property : criterion used property : series ordinal exception to constraint : Newtontoppen (largest and highest mountain in Svalbard, Norway) exception to constraint : JOSM (free software editor for OpenStreetMap data)
see also	service entry
9 statements	date of official opening
	location of final assembly
inverse property	dissolved, abolished or demolished

Wikimedia Categories and Portals

category for value different from Wikidata	Q22013004 (Wikimedia category)
category for value not in Wikidata	Category:Inception not in Wikidata, but available on Wikipedia (Wikimedia category)
category for value same as Wikidata	Q32085204 (Wikimedia category)
property usage tracking category	Category:Pages using Wikidata property P571 (Wikimedia category)

data type

hierarchy

Type: Time
subproperty of: every inception is also a(n) start time
instance of: inception is a(n) Wikidata property for items about organizations, Wikidata property with datatype 'time'

Property Usage

Entities	1713499 Venus of Petřkovice , Venus of Hohle Fels , Mehrgarh , Göbekli Tepe , Tel Megiddo , Venus of Laussel , Çatalhöyük , Knossos , Cave of Altamira , Venus of Willendorf , ... further results
Typical Properties	creator , inventory number , collection , official website , width , height , material used , location , headquarters location , image , described at URL , country , dissolved, abolished or demolished , LfDS object ID , IIIF manifest , depicts , National Gallery of Art artwork ID , located in the administrative territorial entity , coordinate location , IUCN protected areas category ,
Statements	1731900 (1.01 per entity)
Qualifiers	latest date 80852 , earliest date 79715 , sourcing circumstances 79150 , instance of 10430 , applies to part 8814 , stated as 4862 , start time 4458 , end time 4337 , refine date 2220 , statement is subject of 323 , has cause 151 , location 137 , object has role 123 , subject has role 103 , named as 98 , identity of subject in context 80 , of 70 ,
Uses as qualifier	1685
Uses in references	114

Statements

Own statements | From related entities

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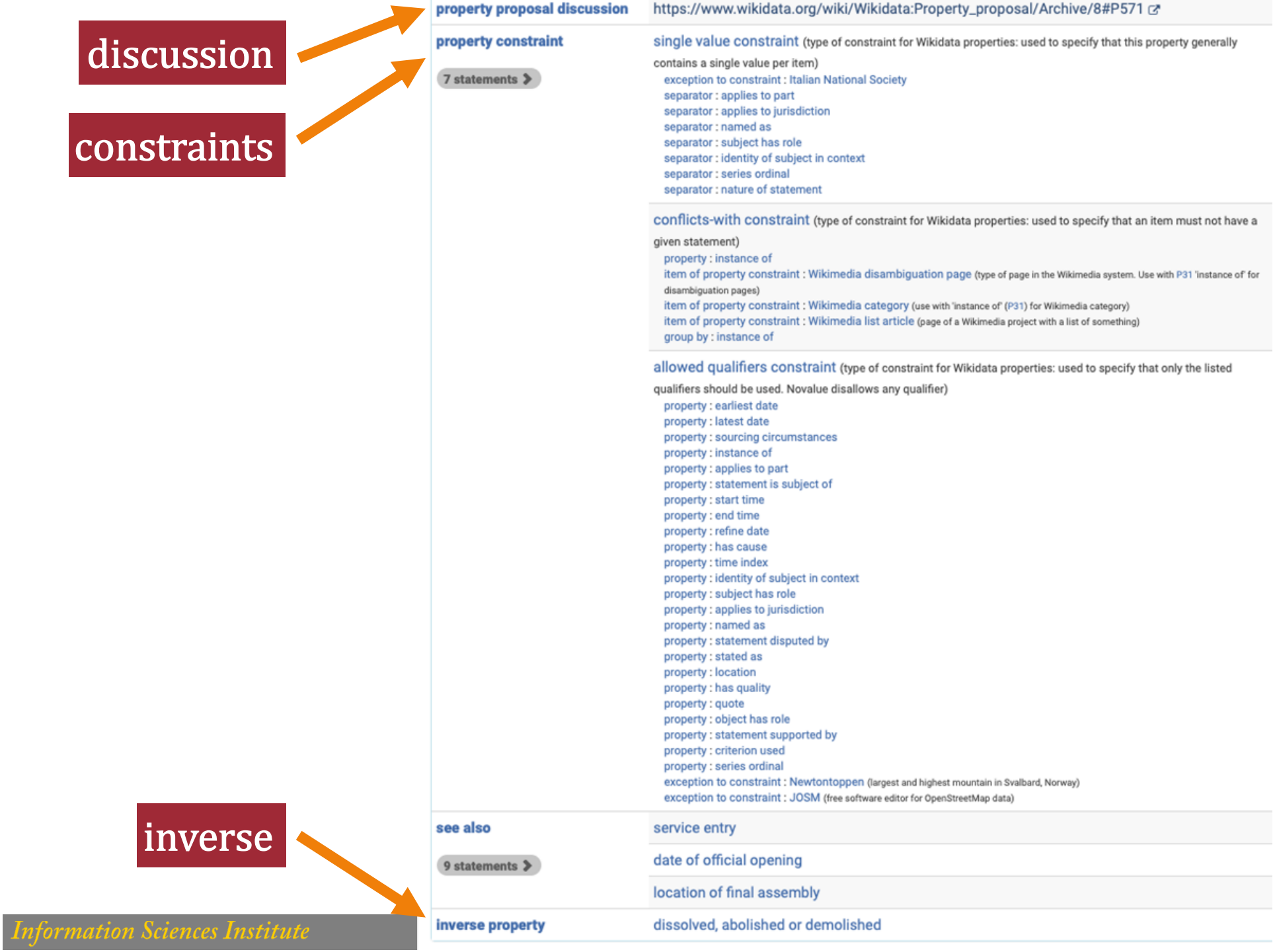
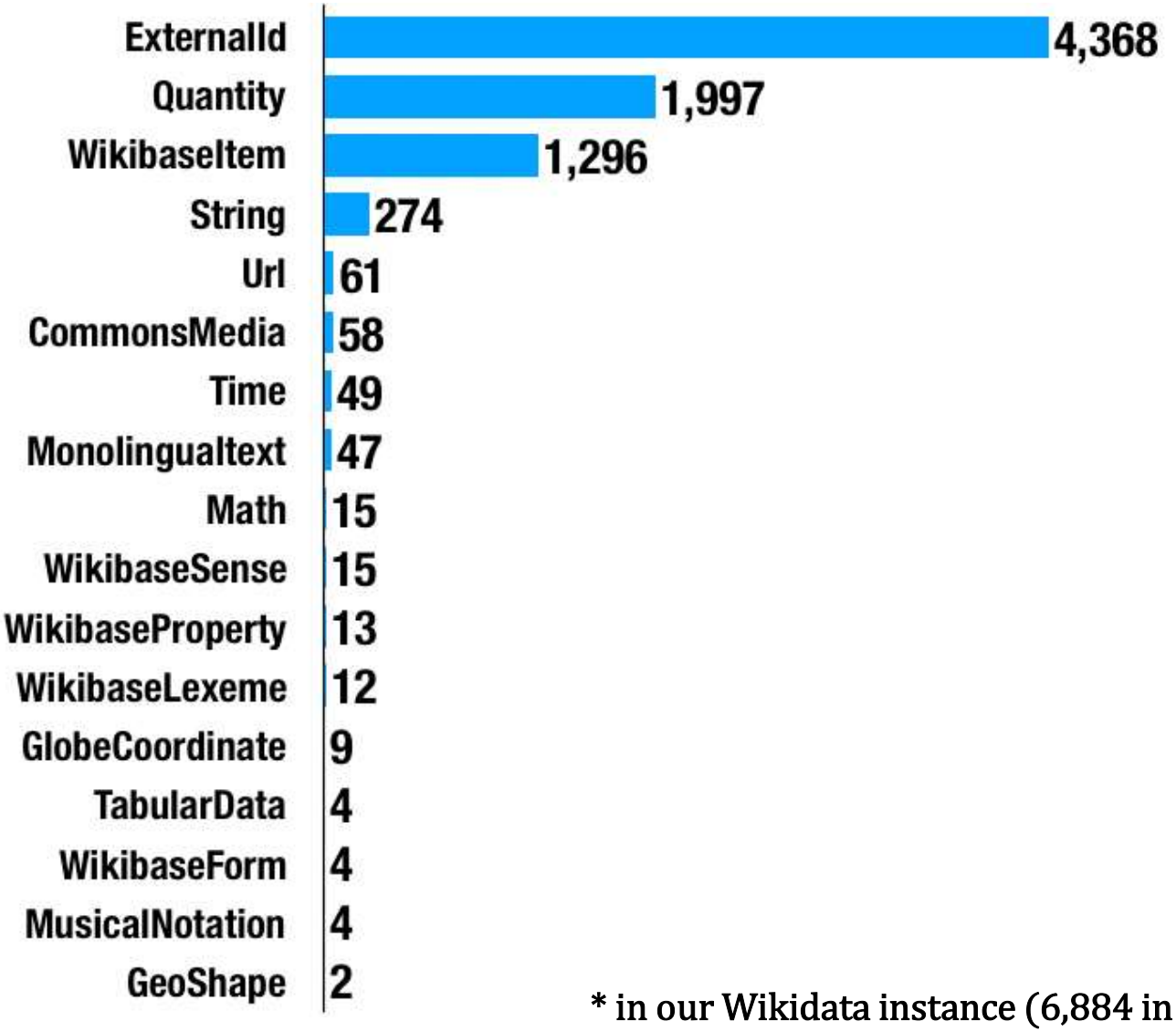
subproperty of	start time
subject item of this property	date of establishment (date something was established)
Wikidata property example	Society of Jesus (male religious congregation of the Roman Catholic Church) inception : 1539
	Church of Saint Michael (church in Olomouc District of Olomouc region) inception : 1300
	Dracula (1897 Gothic horror novel by Irish author Bram Stoker) inception : 1890 start time : 1890-03-08 end time : 1897-05-26

"domain"


discussion
constraints
inverse
property proposal discussion
https://www.wikidata.org/wiki/Wikidata:Property_proposal/Archive/8#P571
property constraint
7 statements
single value constraint (type of constraint for Wikidata properties: used to specify that this property generally contains a single value per item)
exception to constraint : Italian National Society
separator : applies to part
separator : applies to jurisdiction
separator : named as
separator : subject has role
separator : identity of subject in context
separator : series ordinal
separator : nature of statement
conflicts-with constraint (type of constraint for Wikidata properties: used to specify that an item must not have a given statement)
property : instance of
item of property constraint : Wikimedia disambiguation page (type of page in the Wikimedia system. Use with P31 'instance of' for disambiguation pages)
item of property constraint : Wikimedia category (use with 'instance of' (P31) for Wikimedia category)
item of property constraint : Wikimedia list article (page of a Wikimedia project with a list of something)
group by : instance of
allowed qualifiers constraint (type of constraint for Wikidata properties: used to specify that only the listed qualifiers should be used. Novalue disallows any qualifier)
property : earliest date
property : latest date
property : sourcing circumstances
property : instance of
property : applies to part
property : statement is subject of
property : start time
property : end time
property : refine date
property : has cause
property : time index
property : identity of subject in context
property : subject has role
property : applies to jurisdiction
property : named as
property : statement disputed by
property : stated as
property : location
property : has quality
property : quote
property : object has role
property : statement supported by
property : criterion used
property : series ordinal
exception to constraint : Newtontoppen (largest and highest mountain in Svalbard, Norway)
exception to constraint : JOSM (free software editor for OpenStreetMap data)
see also
9 statements
service entry
date of official opening
location of final assembly
inverse property
dissolved, abolished or demolished
Information Sciences Institute

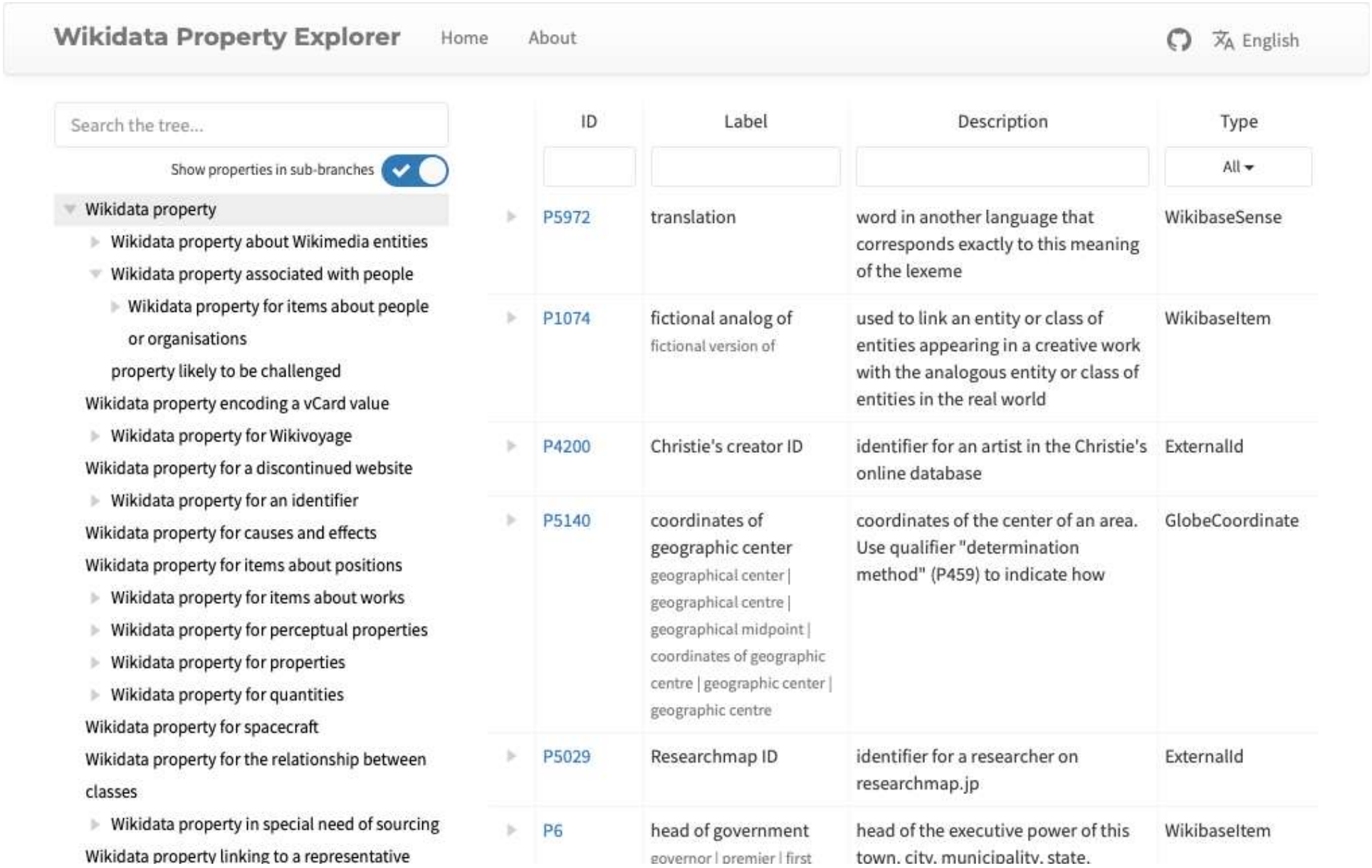
Properties By Type (Total 8,228*)



* in our Wikidata instance (6,884 in the public Wikida

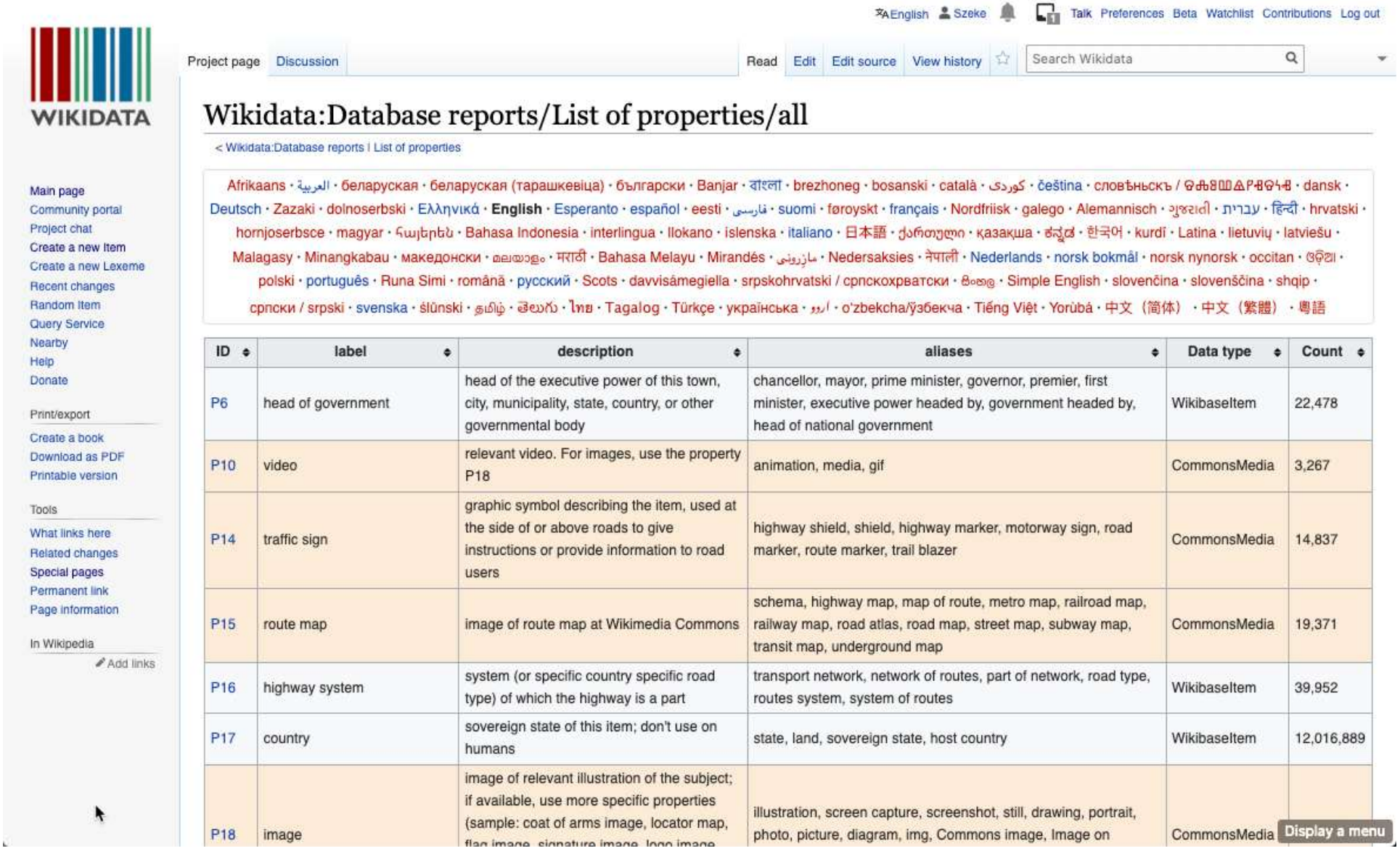
Property Explorer

https://tools.wmflabs.org/prop-explorer/



List Of Properties

https://www.wikidata.org/wiki/Wikidata:Database_reports/List_of_properties/all



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WIKIDATA

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Wikidata:Database reports/List of properties/all

< Wikidata:Database reports | List of properties

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Community portal
Project chat
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Create a new Lexeme
Recent changes
Random Item
Query Service
Nearby
Help
Donate

Print/export
Create a book
Download as PDF
Printable version

Tools
What links here
Related changes
Special pages
Permanent link
Page information

In Wikipedia
Add links

Afrikaans · العربية · беларуская · беларуская (тарашкевіца) · български · Banjar · বাংলা · brezhoneg · bosanski · català · کوردی · čeština · словѣньскъ / ⰔⰎⰑⰂⰡⰐⰠⰔⰍⰟ · dansk · Deutsch · Zazaki · dolnoserbski · Ελληνικά · **English** · Esperanto · español · eesti · فارسی · suomi · føroyskt · français · Nordfriisk · galego · Alemannisch · ગુજરાતી · עברית · हिन्दी · hrvatski · hornjoserbsce · magyar · հայերեն · Bahasa Indonesia · interlingua · Ilokano · íslenska · italiano · 日本語 · ქართული · қазақша · ಕನ್ನಡ · 한국어 · kurdî · Latina · lietuvių · latviešu · Malagasy · Minangkabau · македонски · മലയാളം · मराठी · Bahasa Melayu · Mirandés · مازرونی · Nedersaksies · नेपाली · Nederlands · norsk bokmål · norsk nynorsk · occitan · ଓଡ଼ିଆ · polski · português · Runa Simi · română · русский · Scots · davvisámegiella · srpskohrvatski / српскохрватски · සිංහල · Simple English · slovenčina · slovenščina · shqip · српски / srpski · svenska · ślůnski · தமிழ் · తెలుగు · ไทย · Tagalog · Türkçe · українська · اردو · o'zbekcha/ўзбекча · Tiếng Việt · Yorùbá · 中文（简体） · 中文（繁體） · 粵語

ID	label	description	aliases	Data type	Count
P6	head of government	head of the executive power of this town, city, municipality, state, country, or other governmental body	chancellor, mayor, prime minister, governor, premier, first minister, executive power headed by, government headed by, head of national government	WikibaseItem	22,478
P10	video	relevant video. For images, use the property P18	animation, media, gif	CommonsMedia	3,267
P14	traffic sign	graphic symbol describing the item, used at the side of or above roads to give instructions or provide information to road users	highway shield, shield, highway marker, motorway sign, road marker, route marker, trail blazer	CommonsMedia	14,837
P15	route map	image of route map at Wikimedia Commons	schema, highway map, map of route, metro map, railroad map, railway map, road atlas, road map, street map, subway map, transit map, underground map	CommonsMedia	19,371
P16	highway system	system (or specific country specific road type) of which the highway is a part	transport network, network of routes, part of network, road type, routes system, system of routes	WikibaseItem	39,952
P17	country	sovereign state of this item; don't use on humans	state, land, sovereign state, host country	WikibaseItem	12,016,889
P18	image	image of relevant illustration of the subject; if available, use more specific properties (sample: coat of arms image, locator map, flag image, signature image, logo image	illustration, screen capture, screenshot, still, drawing, portrait, photo, picture, diagram, img, Commons image, Image on	CommonsMedia	

Display a menu

Wikidata Data Modeling

DBpedia Browse using Formats Faceted Browser Sparql Endpoint

About: Dianne Feinstein

An Entity of Type : person, from Named Graph : http://dbpedia.org, within Data Space : dbpedia.org

Dianne Goldman Berman Feinstein (/ˈfaɪnstaɪn/; born Dianne Emiel Goldman; June 22, 1933) is the senior United States Senator from California. A member of the Democratic Party, she has served in the Senate since 1992. She also served as the 38th Mayor of San Francisco from 1978 to 1988.

Property	Value
dbo:abstract	▪ Dianne Goldman Berman Feinstein (/ˈfaɪnstaɪn/; born Dia California. A member of the Democratic Party, she has s
is dbp:afterElection of	▪ dbr:United_States_Senate_special_election_in_C ▪ dbr:United_States_Senate_election_in_California_20 ▪ dbr:United_States_Senate_election_in_California_19 ▪ dbr:United_States_Senate_election_in_California_20 ▪ dbr:United_States_Senate_election_in_California_20
is dbp:alongside of	▪ dbr:Barbara_Boxer ▪ dbr:Alan_Cranston
is dbp:before of	▪ dbr:Art_Agnos
is dbp:beforeElection of	▪ dbr:United_States_Senate_election_in_California_20 ▪ dbr:United_States_Senate_election_in_California_19 ▪ dbr:United_States_Senate_election_in_California_20 ▪ dbr:United_States_Senate_election_in_California_20
rdf:type	▪ owl:Thing ▪ foaf:Person ▪ dbo:Person ▪ dul:Agent ▪ dul:NaturalPerson ▪ wikidata:Q215627 ▪ wikidata:Q24229398 ▪ wikidata:Q5 ▪ dbo:Agent ▪ dbo:OfficeHolder ▪ schema:Person ▪ umbel-rc:PersonWithOccupation ▪ yago:WikicatFemaleUnitedStatesSenators ▪ yago:WikicatJewishAmericanMayors ▪ yago:WikicatJewishUnitedStatesSenators ▪ yago:WikicatStanfordLawSchoolAlumni ▪ yago:WikicatStanfordUniversityAlumni ▪ yago:Adult109605289 ▪ yago:Advocate109774783

elections

type

Dianne Feinstein (Q230733)

Dianne Goldman Berman Feinstein | Dianne Emiel Goldman

United States Senator from California

instance of: Dianne Feinstein is a(n) human

type

date of birth	1933-06-22
occupation	politician (person involved in politics, perso
family name	Feinstein (fa

occupation

Human relationships

Own statements | From related entities

spouse	Richard C. Blum (American politician) start time : 1980-01-20

Statements

Own statements | From related entities

work location	Washington, D.C. (capital city of the United States)
member of political party	Democratic Party (political party in the United States)
languages spoken, written or signed	English (West Germanic language originating in England with linguistic roots in French, German and Vulgar Latin)
position held 19 statements	United States senator (member of the United States Senate) parliamentary term : 115th United States Congress (meeting of the legislative branch of the United States federal government) parliamentary group : Democratic Party (political party in the United States) start time : 2017-01-03 end time : 2019-01-03 electoral district : California (constituency of the United States Senate) elected in : 2012 United States Senate elections (United States Senate election of 2012)
	United States senator (member of the United States Senate) parliamentary term : 114th United States Congress (2015–2017 legislative term) parliamentary group : Democratic Party (political party in the United States)

position held

DBpedia Class Hierarchy (Person)

http://mappings.dbpedia.org/server/ontology/classes/

- Person (edit)
  - Archeologist (edit)
  - Architect (edit)
  - Aristocrat (edit)
  - Artist (edit)
    - Actor (edit)
      - AdultActor (edit)
      - VoiceActor (edit)
    - Comedian (edit)
    - ComicsCreator (edit)
    - Dancer (edit)
    - FashionDesigner (edit)
    - Humorist (edit)
    - MusicalArtist (edit)
      - BackScene (edit)
      - ClassicalMusic
      - Instrumentalist
        - Guitarist

occupation

  - Cleric (edit)
    - Cardinal (edit)
    - ChristianBishop (edit)
      - Archbishop (edit)
    - ChristianPatriarch (edit)
    - Pope (edit)
    - Priest (edit)
    - Saint (edit)
    - Vicar (edit)
  - Coach (edit)
    - AmericanFootballCoac
    - CollegeCoach (edit)
    - VolleyballCoach (edit)
  - Criminal (edit)
    - Murderer (edit)
      - SerialKiller (edit)

position held

  - Politician (ed
    - Ambassador (edit)
    - Chancellor (edit)
    - Congressman (edit)
    - Deputy (edit)
    - Governor (edit)
    - Lieutenant (edit)
    - Mayor (edit)
    - MemberOfParliament (edit)
    - Minister (edit)
    - President (edit)
    - PrimeMinister (edit)
    - Senator (edit)
    - VicePresident (edit)
    - VicePrimeMinister (edit)
  - PoliticianSpouse (edit)
  - Presenter (edit)
    - RadioHost (edit)

Wikidata Models Use Roles

type

occupation role

position held role

Qualifiers used to provide context for the

Wikidata Occupations Hierarchy

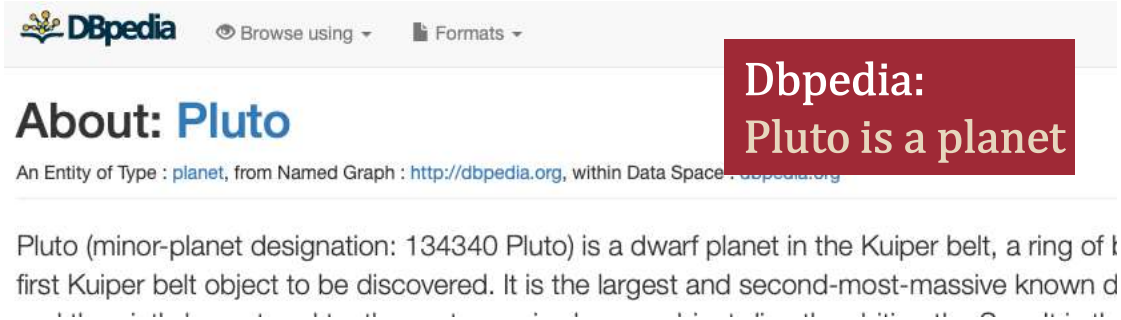
```
D22ML-PSZEKELY:~ pedroszekely$ wd summary Q702269
id Q702269
Label professional
Description person who is paid to undertake a specialized set of tasks and to complete them for a fee
instance of (P31):  occupation (Q12737077)
subclass of (P279): worker (Q327055)
```

109,566 subclasses of professional (Q702269

```
D22ML-PSZEKELY:~ pedroszekely$ wdtaxonomy -c Q82955
politician (Q82955) •113 ×20 ↑
├──president (Q30461) •136 ×8 ↑↑
├──Provincial governor (of the Ming and Qing dynasties) (Q56911) •8 ↑
├──minister (Q83307) •82 ×38 ↑↑
├──Genrō (Q254907) •20
├──independent politician (Q327591) •52
├──prefect (Q371909) •33 ↑↑
│  ├──prefect (Q1285463) •12 ×2 ↑
│  └──sub-prefect (Q3382119) •4 ×1 ↑↑↑
├──statesperson (Q372436) •46
│  └──posadnik (Q2587924) •15 ↑↑↑
├──cacique (Q599898) •27 ↑
├──party secretary (Q836971) •8 ×1
├──pretender (Q845929) •28
├──??? (Q1021222) •1 ↑
├──ruler (Q1097498) •9 ×8 ↑↑
├──Deputy mayor (Q1207353) •2 ↑
```

politician (Q82955) hierarchy (59,421 subclasses

Pluto Is Instance Of ???

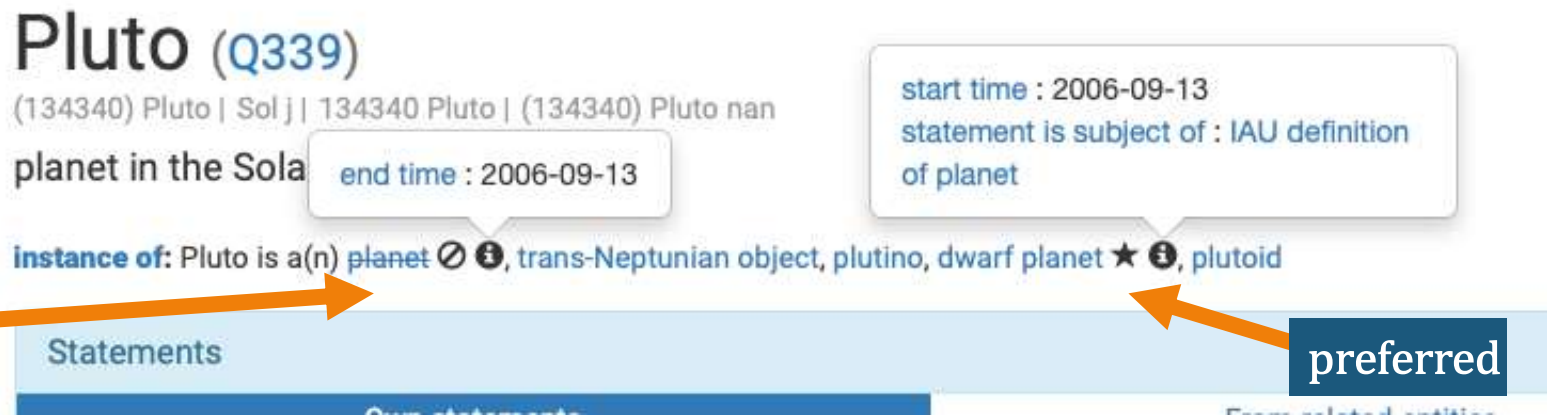


Dbpedia:
Pluto is a planet

rdf:type

- owl:Thing
- dbo:Place
- dbo:Location
- wikidata:Q634
- dbo:CelestialBody
- dbo:Planet
- schema:Place
- umbel-rc:Planet
- yago:WikicatTrans-NeptunianObjects

Wikidata:
- Pluto was a planet until 2006-09-13
- Since 2006-09-13 it is a trans-Neptunian object

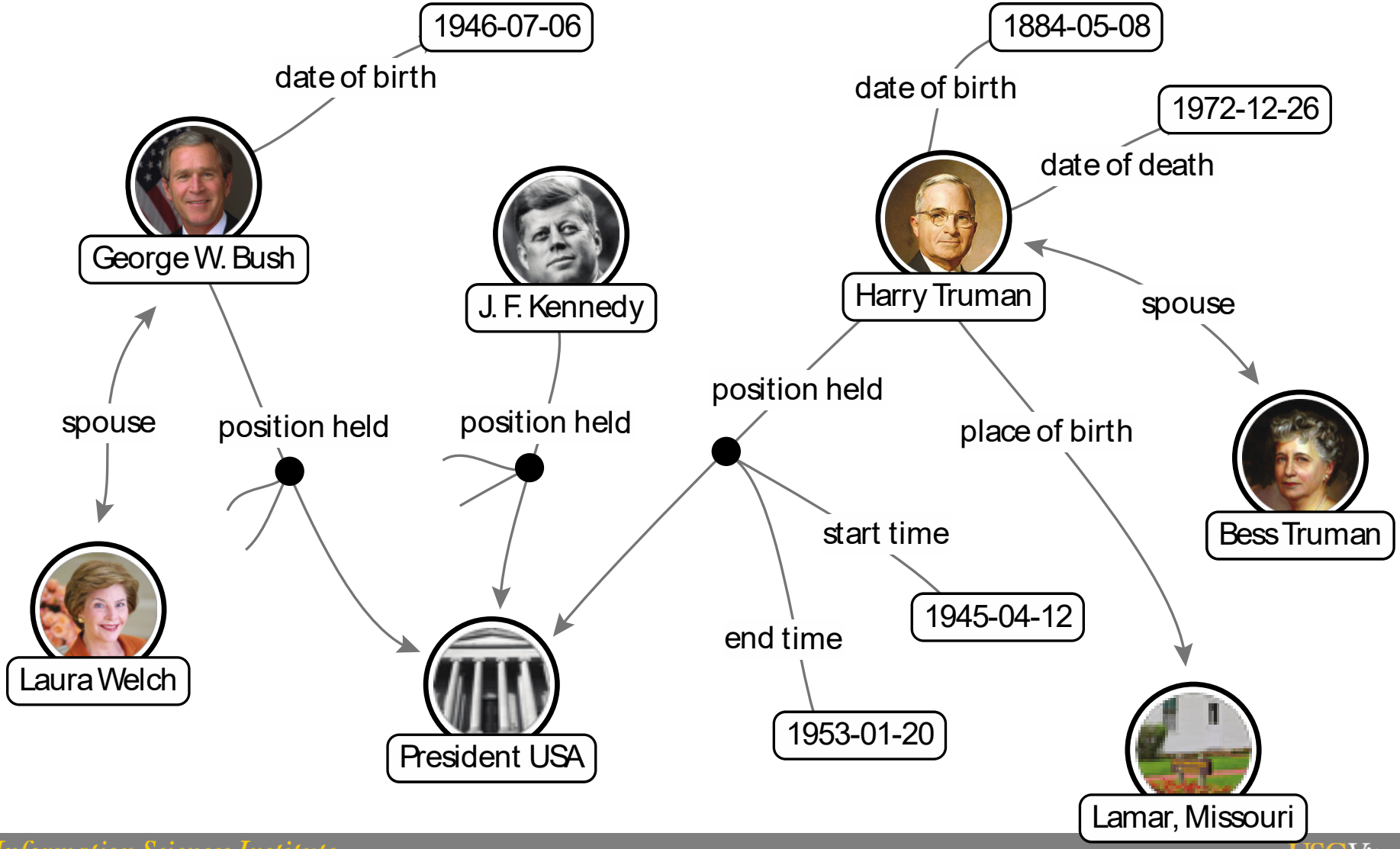


deprecated

preferred

RDF Data Model

Edges Are Statements (Reification)



Truthy Statements

All statements with rank = preferred

if there are any such statements

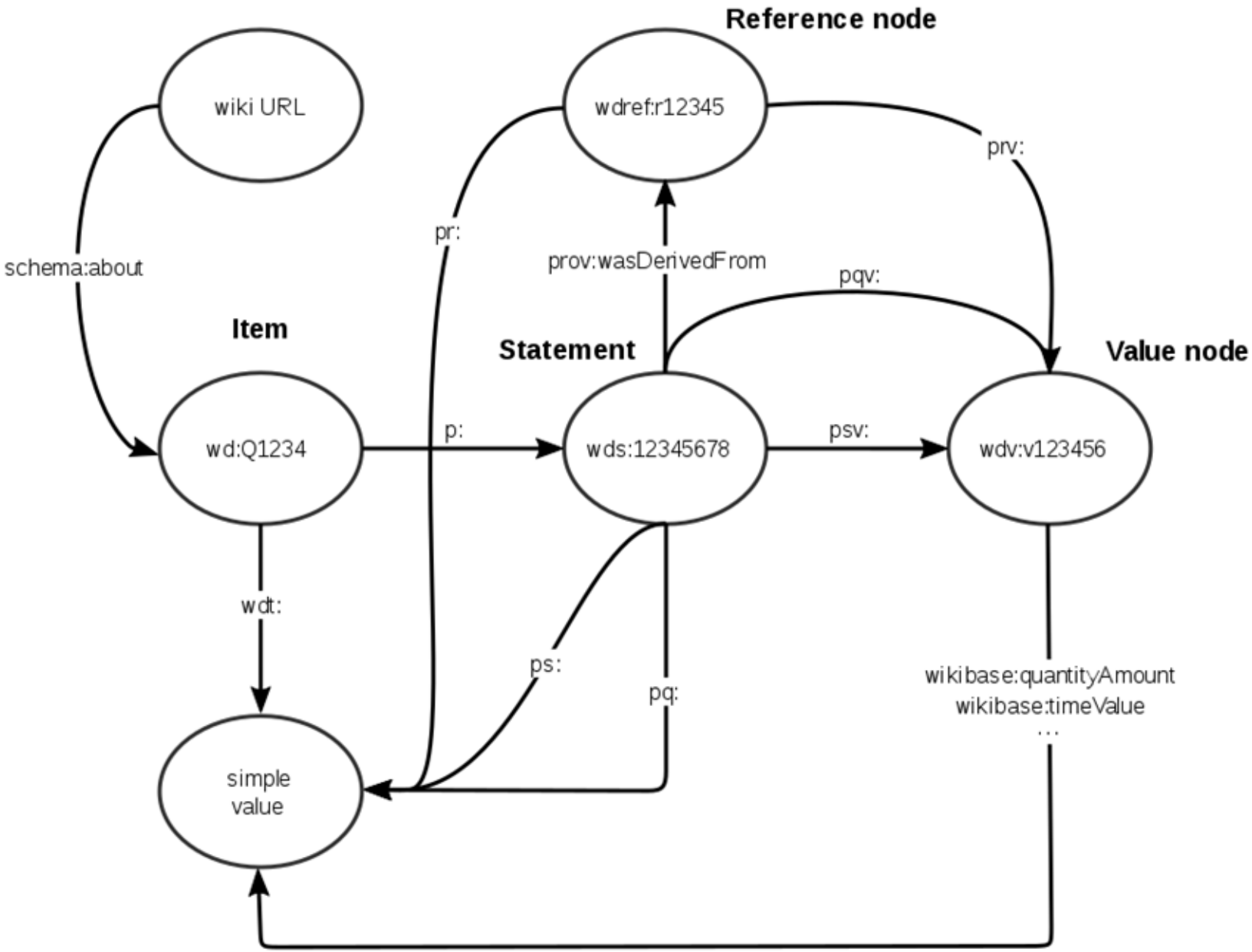
All statements with rank = normal

if there are no preferred statements

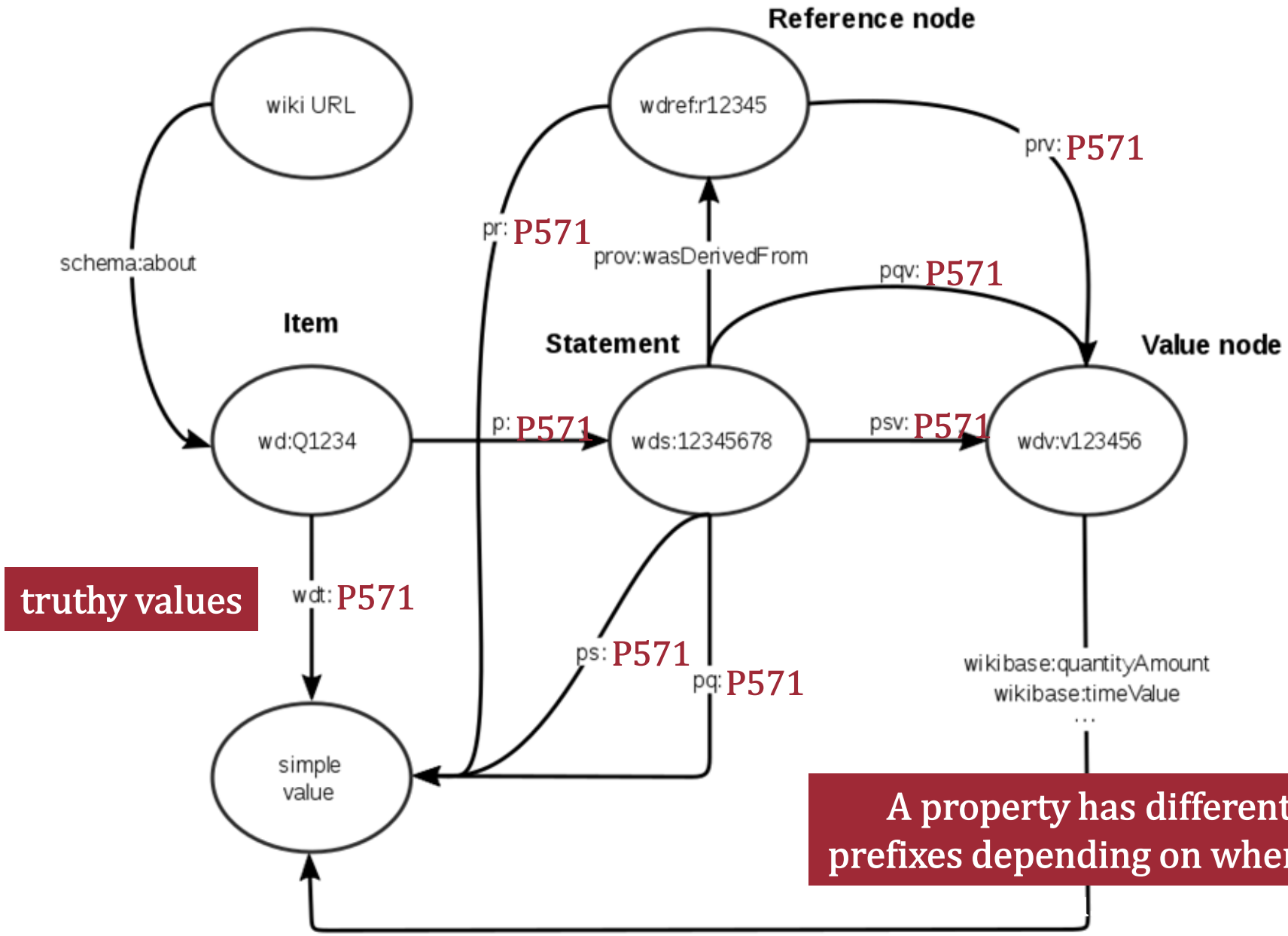
and there are statements with rank = normal

Statements with rank = deprecated are not truthy

RDF Model


Reference node
wiki URL
wdref:r12345
prv:
pr:
schema:about
prov:wasDerivedFrom
pqv:
Item
Statement
Value node
wd:Q1234
p:
wds:12345678
psv:
wdv:v123456
wdt:
ps:
pq:
wikibase:quantityAmount
wikibase:timeValue
...
simple
value

RDF Model


Reference node
wiki URL
wdref:r12345
prv: P571
pr: P571
schema:about
prov:wasDerivedFrom
pqv: P571
Item
Statement
Value node
wd:Q1234
p: P571
wds:12345678
psv: P571
wdv:v123456
truthy values
wdt: P571
ps: P571
pq: P571
wikibase:quantityAmount
wikibase:timeValue
...
simple value
A property has different prefixes depending on where it

Wikidata RDF Format

https://www.mediawiki.org/wiki/Wikibase/Indexing/RDF_Dump_Format

Item

```
wd:Q3 a wikibase:Item ;
     rdfs:label "The Universe"@en ;
     skos:prefLabel "The Universe"@en ;
     schema:name "The Universe"@en ;
     schema:description "The Universe is big"@en ;
     skos:altLabel "everything"@en ;
     wdt:P2 wd:Q3 ;
     wdt:P7 "value1", "value2" ;
     p:P2 wds:Q3-4cc1f2d1-490e-c9c7-4560-46c3cce05bb7 ;
     p:P7 wds:Q3-24bf3704-4c5d-083a-9b59-1881f82b6b37,
          wds:Q3-45abf5ca-4ebf-eb52-ca26-811152eb067c .
```

RDF Representation

```
 wds:Q3-24bf3704-4c5d-083a-9b59-1881f82b6b37 a
wikibase:Statement, wikibase:BestRank ;
     ps:P2 wd:Q3 ;
     wikibase:rank wikibase:PreferredRank ;
     pq:P8 "-13000000000-01-01T00:00:00Z"^^xsd:dateTime ;
     pqv:P8 wdv:382603eaa501e15688076291fc47ae54 ;
     prov:wasDerivedFrom
wdref:87d0dc1c7847f19ac0f19be978015dfb202cf59a,
         wdref:d95dde070543a0e0115c8d5061fce6754bb82280 .
```

Statement

RDF Representation

```
 wds:Q3-24bf3704-4c5d-083a-9b59-1881f82b6b37 a
wikibase:Statement, wikibase:BestRank ;
      ps:P2 wd:Q3 ;
      wikibase:rank wikibase:PreferredRank ;
      pq:P8 "-13000000000-01-01T00:00:00Z"^^xsd:dateTime ;
      pqv:P8 wdv:382603eaa501e15688076291fc47ae54 ;
      prov:wasDerivedFrom
wdref:87d0dc1c7847f19ac0f19be978015dfb202cf59a,
         wdref:d95dde070543a0e0115c8d5061fce6754bb82280 .
```

Statement

```
wdv:b74072c03a5ced412a336ff213d69ef1 a wikibase:TimeValue ;
    wikibase:timeValue "+1976-01-12T00:00:00Z"^^xsd:dateTime ;
    wikibase:timePrecision "11"^^xsd:integer ;
    wikibase:timeTimezone "0"^^xsd:integer ;
    wikibase:timeCalendarModel
<http://www.wikidata.org/entity/Q1985727> .
```

Time

RDF Representation

```
wds:Q3-24bf3704-4c5d-083a-9b59-1881f82b6b37 a
wikibase:Statement, wikibase:BestRank ;
        ps:P2 wd:Q3 ;
        wikibase:rank wikibase:PreferredRank ;
        pq:P8 "-13000000000-01-01T00:00:00Z"^^xsd:dateTime ;
        pqv:P8 wdv:382603eaa501e15688076291fc47ae54 ;
        prov:wasDerivedFrom
wdref:87d0dc1c7847f19ac0f19be978015dfb202cf59a,
            wdref:d95dde070543a0e0115c8d5061fce6754bb82280 .
```

Statement

```
wdv:b74072c03a5ced412a336ff213d69ef1 a wikibase:TimeValue ;
    wikibase:timeValue "+1976-01-12T00:00:00Z"^^xsd:dateTime ;
    wikibase:timePrecision "11"^^xsd:integer ;
    wikibase:timeTimezone "0"^^xsd:integer ;
    wikibase:timeCalendarModel
<http://www.wikidata.org/entity/Q1985727> .
```

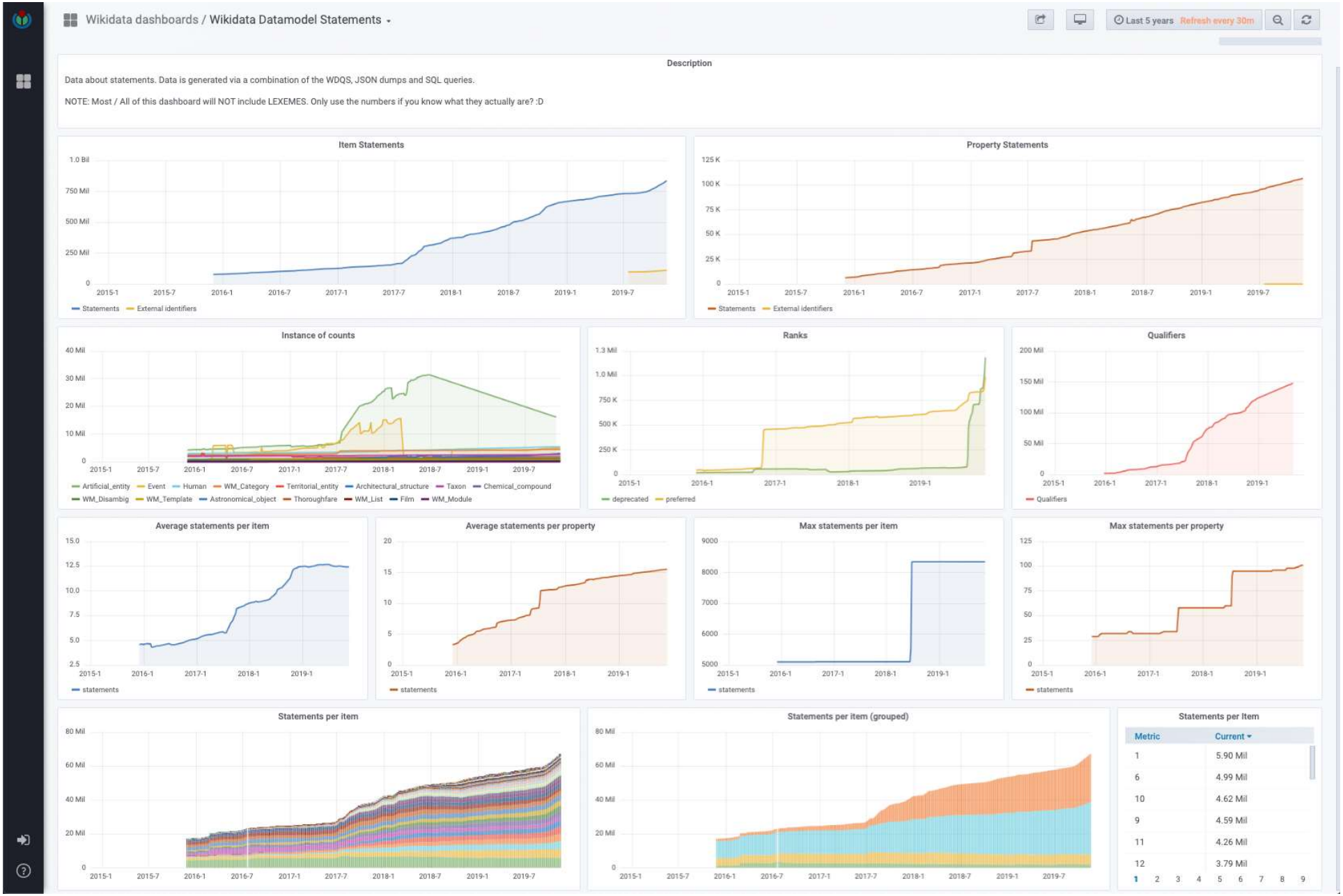
Time

```
v:cb213eea7a0b90d1d7f65c6eabfab9da a wikibase:QuantityValue ;
  wikibase:quantityAmount "+123"^^xsd:decimal ;
  wikibase:quantityUpperBound "+124"^^xsd:decimal ;
  wikibase:quantityLowerBound "+122"^^xsd:decimal ;
  wikibase:quantityUnit <http://www.wikimedia.org/entity/Q199> .
```

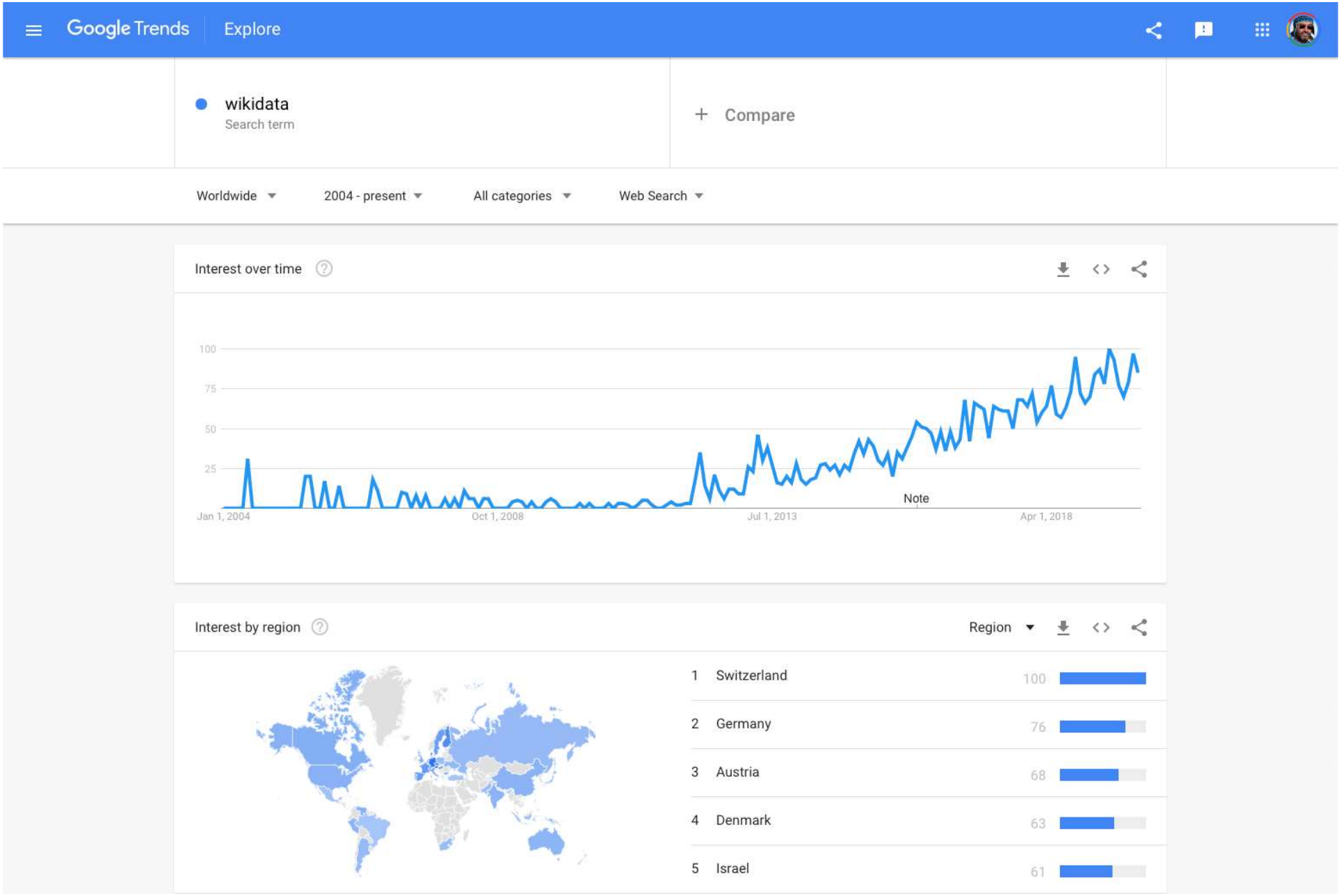
Quantity Value

Wikidata Statistics

https://grafana.wikimedia.org/d/000000175/



Google Trends



https://wikidata.wikiscan.org

Wikiscan

Statistics on
www.wikidata.org

Wikis | Home | Last hours | Grid | Calendar | Users

Statistics wikidata 2004 - 2019 2019-11-17

Contents

	Articles	Total
Pages	61,020,398	64,050,029
Edits	1,037,514,922	1,045,552,191
Actual content	1219 G	1221 G
Content with history	17133 G	17538 G

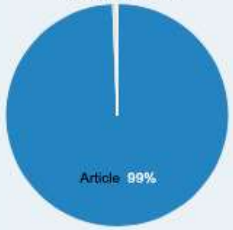
Users

	Actives/month	Total
Users	20,242	302,022
5+ edits	9,322	109,938
100+ edits	1,937	23,298
1000+ edits	432	7,223

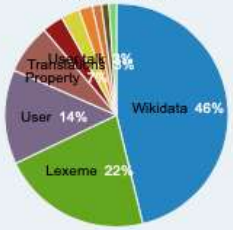
Average by day

	Articles	All pages
Edits	709,087	712,682
Creations	45,339	46,311
Content	847 M	848 M

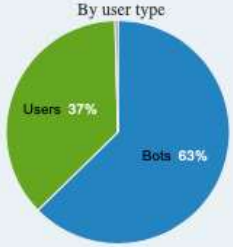
Edits distribution



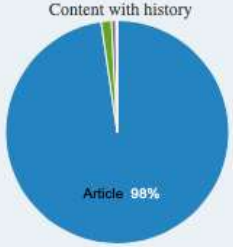
Outside articles



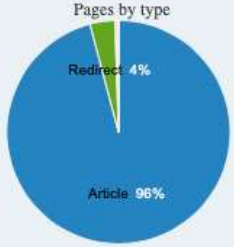
By user type



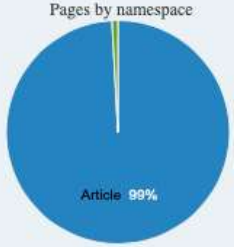
Content with history



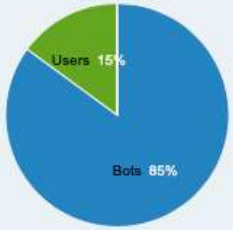
Pages by type



Pages by namespace

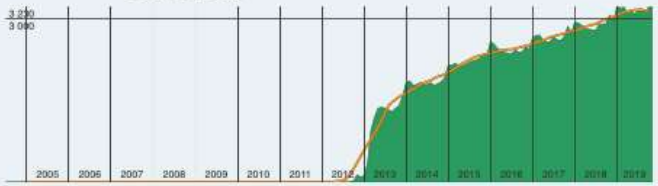


Created articles



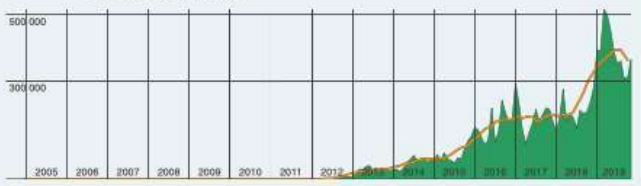
Users / day

2019	3,171	+9.8 %
2018	2,889	+8.5 %
2017	2,662	+9.3 %
2016	2,436	+10 %
2015	2,209	+22 %
2014	1,818	+60 %
2013	1,136	>500 %



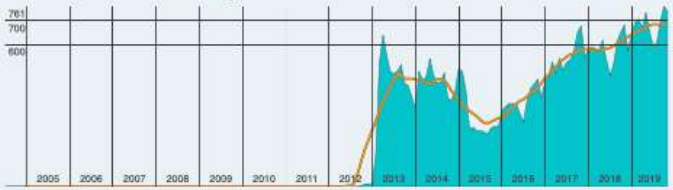
User edits / day

2019	392,461	+92 %
2018	204,708	+7.6 %
2017	190,323	+18 %
2016	161,304	+114 %
2015	75,398	+52 %
2014	49,651	+83 %
2013	27,119	>500 %



IP / day

2019	681	+17 %
2018	582	+8.2 %
2017	538	+49 %
2016	360	+21 %
2015	297	-32 %
2014	437	+3.4 %
2013	423	>500 %

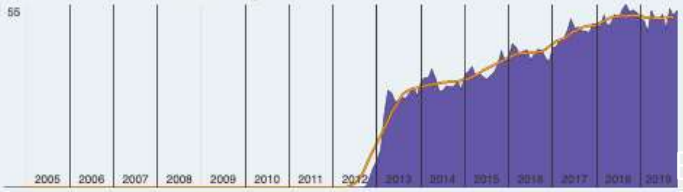


IP edits / day

2019	2,744	+25 %
2018	2,205	+30 %
2017	1,691	+8.4 %
2016	1,559	+25 %
2015	1,246	-2.3 %
2014	1,275	+14 %
2013	1,119	>500 %

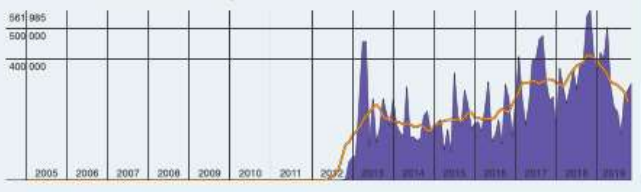
Bots / day

2019	51	-1.1 %
2018	51	+11 %
2017	46	+15 %
2016	40	+15 %
2015	35	+12 %
2014	31	+29 %
2013	24	>500 %

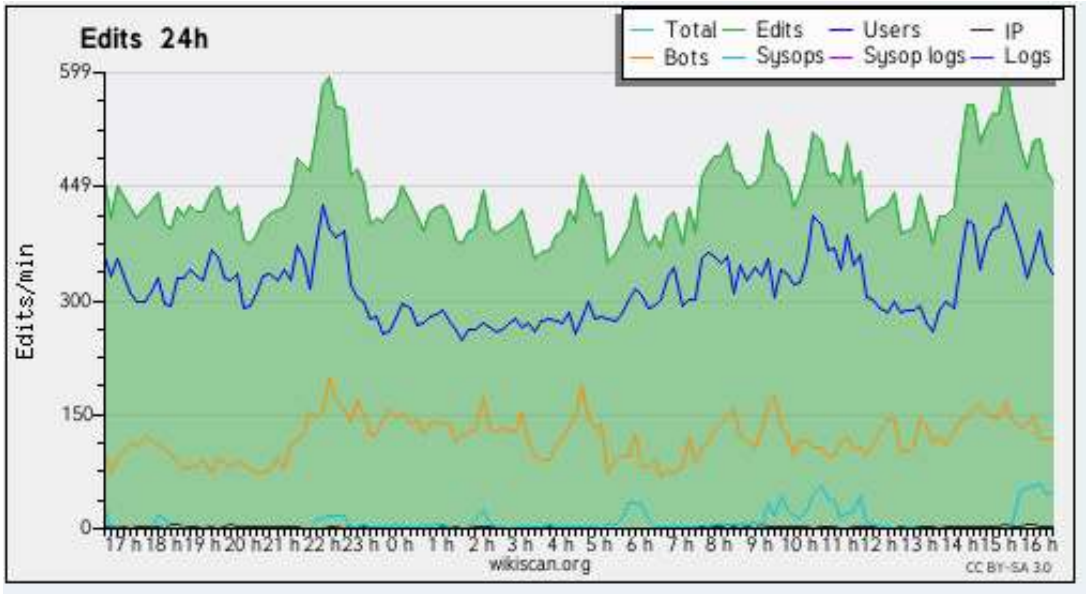


Bot edits / day

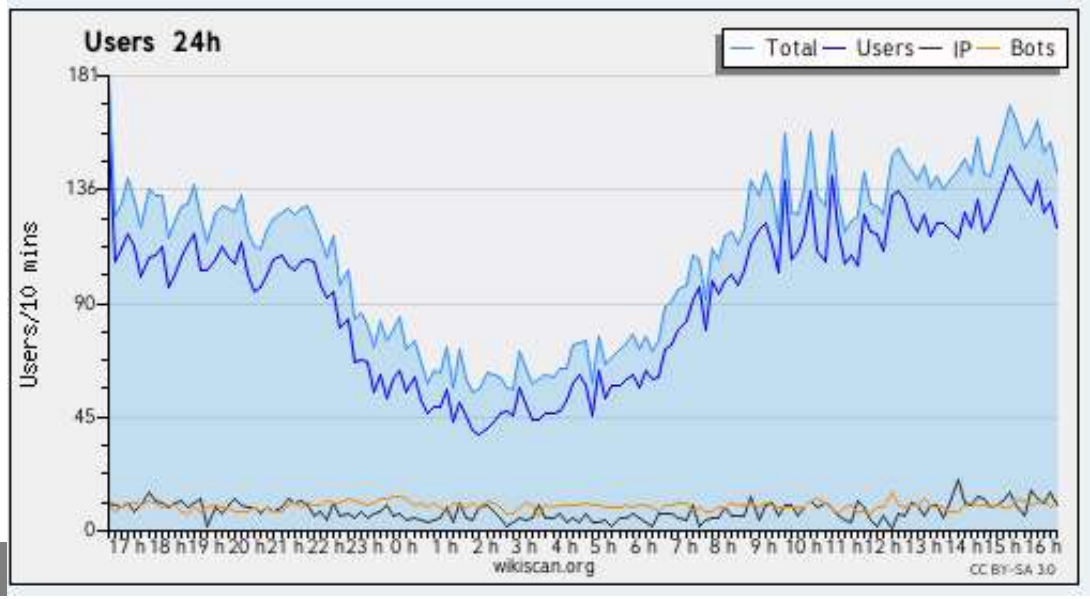
2019	319,103	-12 %
2018	363,948	+9.5 %
2017	332,476	+64 %
2016	203,112	+1.7 %
2015	199,775	+7.9 %
2014	185,117	-18 %
2013	224,259	>500 %



https://wikidata.wikiscan.org/hours



~10 edits/second



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< Wikidata:Status updates

This is the Wikidata summary of the week before 2019-11-11.

Contents [hide]

1 Discussions
2 Events
3 Tool of the week
4 Other Noteworthy Stuff
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6 Development
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https://www.wikidata.org/wiki/Wikidata:Status_updates

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Discussions [edit | edit source]

- New request for comments: Wikidata to use data schemas to standardise data structure on a subject

Events [edit | edit source]

- Past: Wikidata office hour (notes)
- Past: "Using Wikidata to describe the structure of a book" Webinar by Martin Poulter for LD4P2 project (Video), (Slides), (Notes)
- Upcoming: Wikidata Workshop OpenRefine in Prague on 12 November
- Upcoming: Online editathon in Swedish 17 November

Tool of the week [edit | edit source]

- **Speedpatrolling** is a tool to easily patrol Wikidata recent changes, typically on mobile devices.

Other Noteworthy Stuff [edit | edit source]

- Wikipedia Personality Infobox in Catalan and French now displays the Heritage Institution in charge of their archives via P485 (archives at).
- The Discord server Wikimedia Community has now a Wikidata channel.
- @Wikipedia talks about @Wikidata by GerardM

Did you know? [edit | edit source]

- Newest properties:
  - General datatypes: landscape architect, charge conjugation quantum number, statement is regarded as spoiler for, room number, scope and content
  - External identifiers: startrek.com Database ID, Alfred P. Sloan Foundation Grant ID, Chinese Professional Baseball League player ID, Software Preservation Society ID, Sega Retro ID, classicamiga ID, Filmový přehled film ID, Filmový přehled person ID, Gaming-History company ID, SK cinema authority ID, SK cinema film ID, CA PROP 65 ID, ePSD identifier, Czech cadastral area ID, dp.ru company ID, Fortuna liga player ID, MEA Indian Mission ID, AaRC person ID, MIC market code
- New property proposals to review:

Info Display a menu

Keeping Up With New Developments

https://www.wikidata.org/wiki/Wikidata:Development_plan

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Wikidata:Development plan

Shortcuts: WD:DP, WD:DEVPLAN

Development plan | Usability and usefulness | Status updates | Development input | Contact the development team

Wikidata and Wikibase roadmap for 2019 [edit | edit source]

You will find below the roadmap of the Wikidata development team (Wikimedia Germany) for Wikidata and Wikibase for 2019. If you have any question or comment, feel free to write on Wikidata:Contact the development team.

Please note that the roadmap presents the main projects that the development team will work on during 2019. Things like maintenance of the software and fixing pressing bugs are not mentioned in the roadmap, but will be included in the workflow over the year.

Overview of the roadmap [edit | edit source]

The most up-to-date version of the roadmap can be found on an online project management tool: **view in blocks**, **view in timeline**. You can click on the different items to see further information, like a description or planned start date.

You can also find screenshots below:

Wikidata Summary

Free

Collaborative

Multilingual

A secondary database

Collecting structured data

Support for Wikimedia wikis

Anyone in the world

> 60M items

> 6,000 properties

> 2,000,000 classes

> 4,000 external id types

Model using statements

Subject, property, value

Qualifiers, references