



LIBRARY DATA ON WIKIDATA: a case study of National Library of Latvia



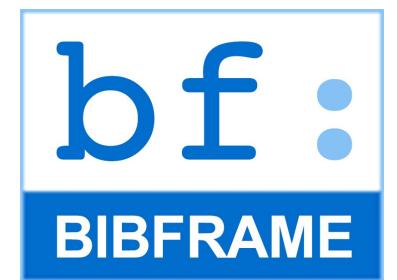
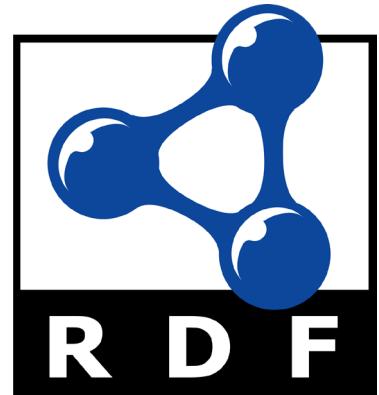
https://commons.wikimedia.org/wiki/File:Mendelejev_fichier_Mundaneum.JPG

MARC STANDARDS
Library of Congress - Network Development and MARC Standards Office

 *MARC 21 Format for*
BIBLIOGRAPHIC DATA
*Library of Congress
Network Development and MARC Standards Office*

 *MARC 21 Format for*
AUTHORITY DATA
*Library of Congress
Network Development and MARC Standards Office*

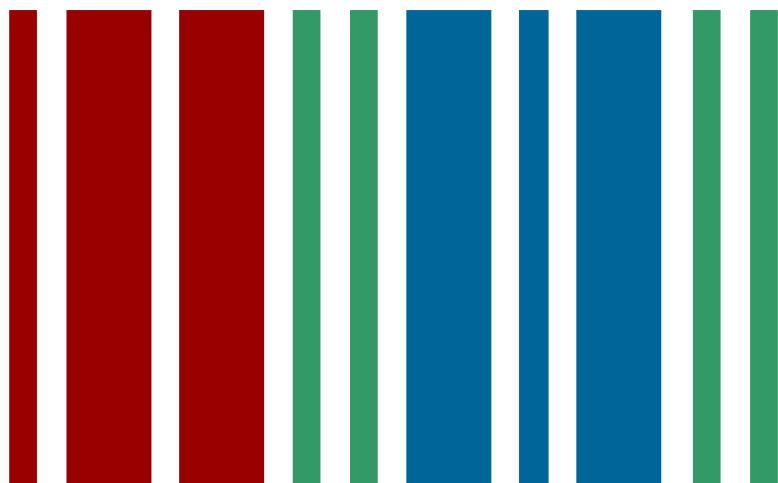
 *MARC 21 Format for*
CLASSIFICATION DATA
*Library of Congress
Network Development and MARC Standards Office*



MARC21 AUTHORITY RECORD (NLL)

Leader	LDR	^ ^ ^ ^ ^ n z ^ ^ a ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ n ^ ^ 4500	EstHead.L.E.P.N	700	17	a Blaumanis, Rūdolfs, d 1863-1908.
Control No.	001	— LNC10-000267479				1 http://viaf.org/viaf/2190154137634615370002
Date and Time	005	— 20220606192138.0				u http://viaf.org/viaf/2190154137634615370002
Fixed Data	008	— 181015nn^aznnnaabn^^^^^a^aaa^^^^^a				2 VIAF
Catalog. Source	040	— a LV-RiVB b lav e rda	EstHead.L.E.UTI	730	7	a Purva bridējs 1 https://www.wikidata.org/wiki/Q71416129 u https://www.wikidata.org/wiki/Q71416129
Spec.Coded Date	046	— k 1898				2 Wikidata
Type of Entity	075	— a Darbs b W				4 N
Personal Name	100	1 a Blaumanis, Rūdolfs, d 1863-1908. t Purva bridējs	EstHead.L.E.UTI	730	7	a Purva bridējs 1 https://enciklopedija.lv/skirklis/51626 u https://enciklopedija.lv/skirklis/51626
Associat.Place	370	— g Rīga (Latvija)				2 Latvijas Nacionālā enciklopēdija
Assoc.Language	377	— a lav i Latviešu valoda				4 N
Form of Work	380	— a Stāsti, latviešu o LNC10-000066805	Enter date	915	03	a 20181015.03jogitas
Timespan	388	1 a 1898	Enter date	915	03	a p20191018.03jogitas
Seef.Trac.Per.N	400	1 a Blaumanis, Rūdolfs, d 1863-1908. t Purwa bridejs	Enter date	915	03	a p20220606.03maritea
SAF.Trac.UniTl	530	0 w r a Purva bridējs g (spēlfilma) o LNC10-000320374				
Sourc.Dat.Found	670	— a Blaumanis, Rūdolfs. Purva bridējs, 1933: b (Rūdolfa Blaumāna novele.) w LNC04-000131747				
Sourc.Dat.Found	670	— a Blaumanis, Rūdolfs. Purwa bridejs, 1925: b (stāsts) w LNC04-000568791				

WHAT IS WIKIDATA?

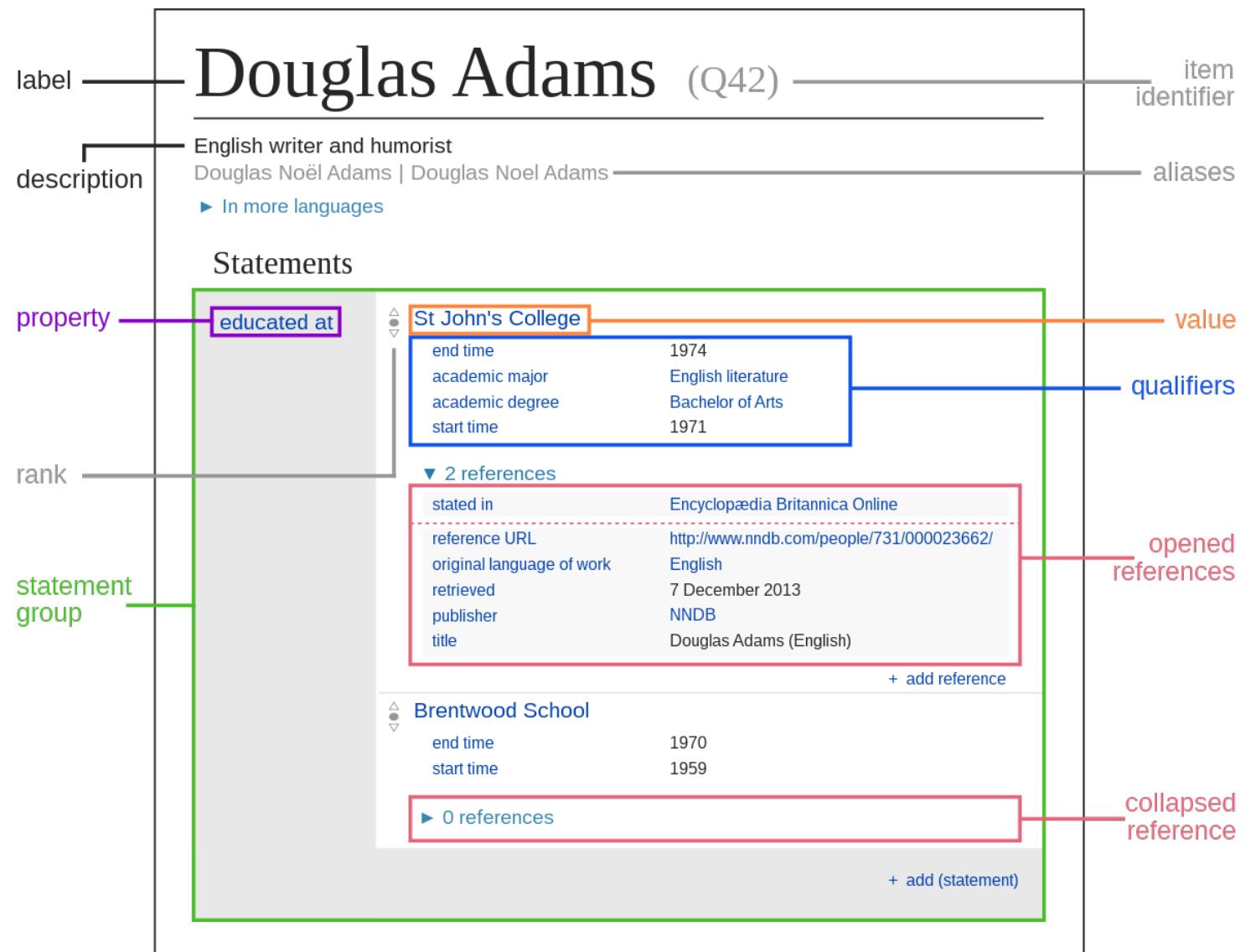
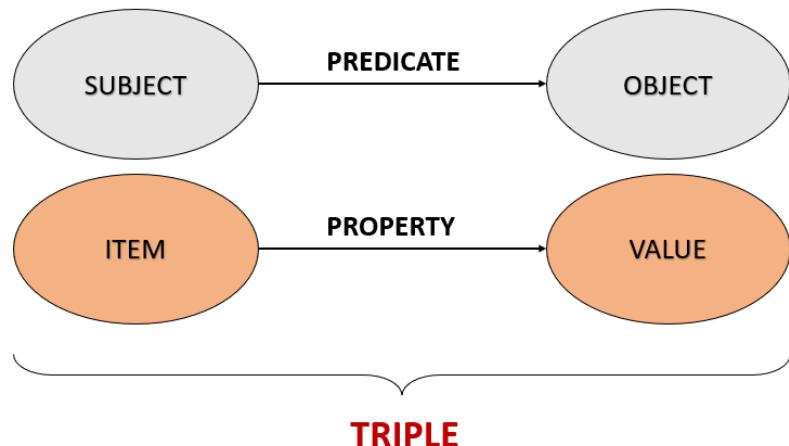


WIKIDATA

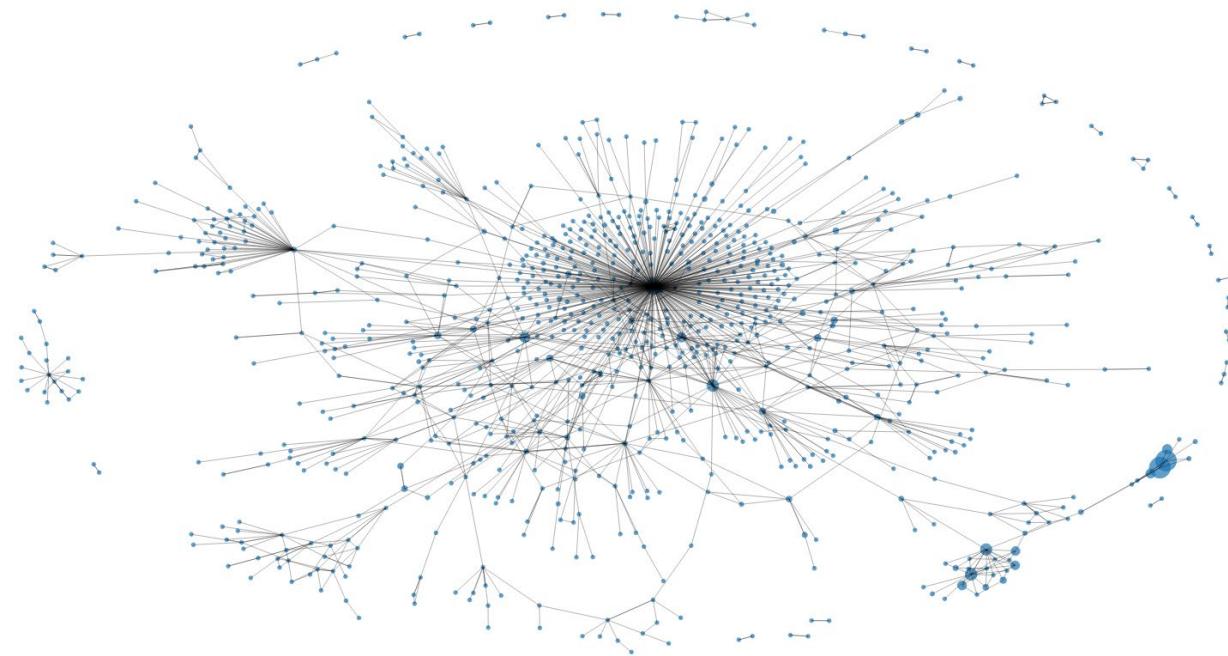
- Free, collaborative, multilingual, and open knowledge base
- Central storage for structured data of Wikimedia projects like Wikipedia and Wikimedia Commons
- Both humans and machines can read and edit it
- Can be linked with other linked open datasets on the web and exported in standard formats
- ~ 99 million items

WIKIDATA STRUCTURE

RDF
 WIKIDATA



EXTERNAL IDENTIFIERS IN WIKIDATA



- Connect Wikidata items to authority files and vocabularies for people, works, locations, organizations, concepts
- String that represents an identifier used in an external system
- Can be displayed as links in Wikidata if a URL stub called a [formatter URL \(P1630\)](#) is defined for the property
- Total number of external id properties is 7,157

WHY LINK YOUR LIBRARY DATA WITH WIKIDATA?



- Wikimedia Movement Strategy: “A world in which every single human being can freely share in **the sum of all knowledge**”
- By 2030, Wikimedia will become the essential infrastructure of the ecosystem of free knowledge
- Wikidata already connects many controlled vocabularies, authority files, and ontologies used in the GLAM sector and beyond
- It is multilingual
- Wikidata as a hub to connect data between GLAM institutions

WIKIDATA: WikiProject Books

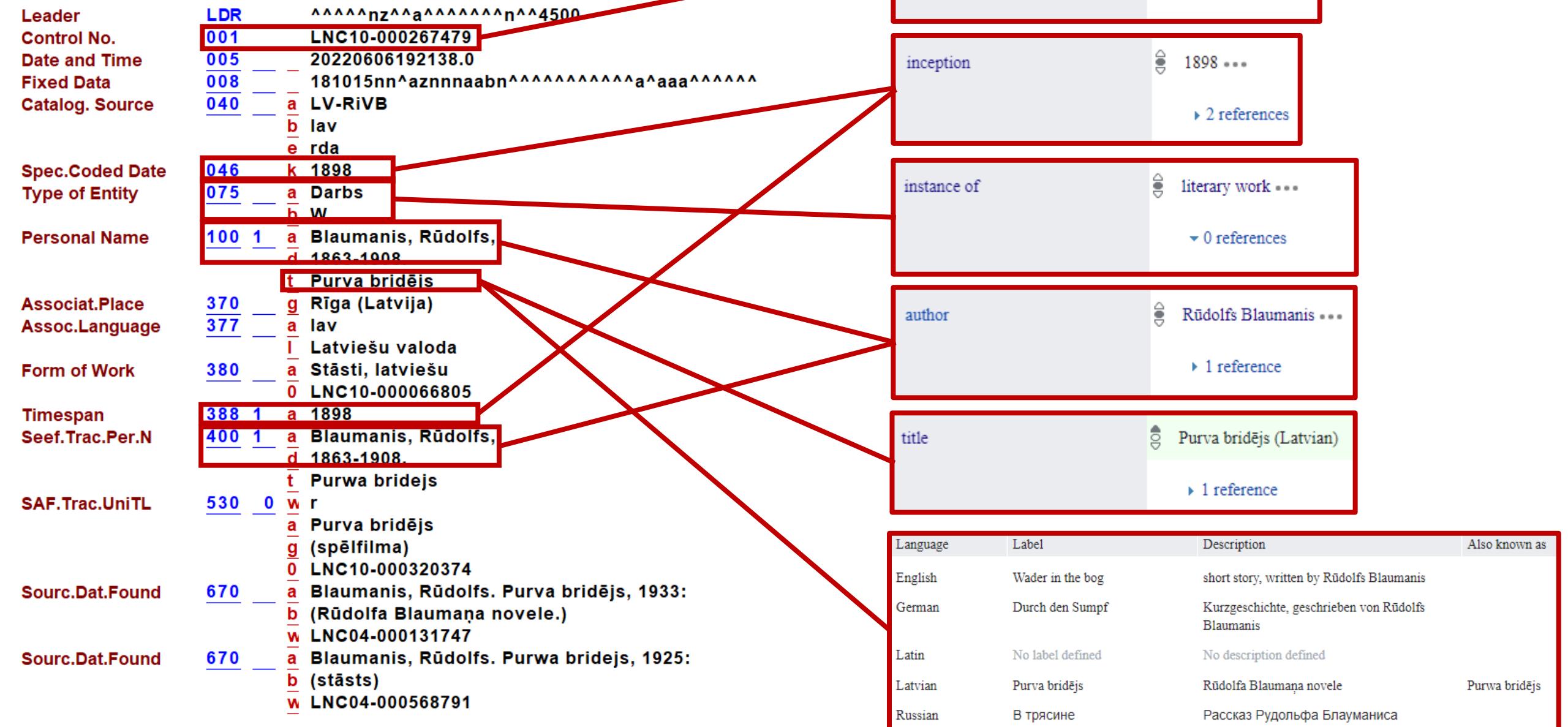


**WIKIDATA
BOOKS**

- Use the Functional Requirements for Bibliographic Records (FRBR) model to divide the Book properties in 2 sets
- Do not use the FRBR terms «expression» or «manifestation»
- 2 FRBR layers in 1 – «edition»
(~ BIBFRAME *Instance*)



MARC21 → WIKIDATA: WORK (1)



MARC21 → WIKIDATA: WORK (2)

Leader
Control No.
Date and Time
Fixed Data
Catalog. Source

LDR ^^^^^nz^^a^^^^^n^^4500

001 LNC10-000267479

005 20220606192138.0

008 181015nn^aznnnaabn^^^^^a^aaa^^^^^a

040 a LV-RiVB

b lav

e rda

Spec.Coded Date
Type of Entity

046 k 1898

075 a Darbs

b W

Personal Name

100 1 a Blaumanis, Rūdolfs,

d 1863-1908

t Purwa bridējs

370 q Rīga (Latvija)

377 a lav

b Latviešu valoda

380 a Stāsti, latviešu

0 LNC10-000066805

Associat.Place

Assoc.Language

Form of Work

Timespan

Seef.Trac.Per.N

400 1 a Blaumanis, Rūdolfs,

d 1863-1908.

t Purwa bridejs

530 0 w r

a Purwa bridējs

g (spēlfilma)

0 LNC10-000320374

SAF.Trac.UniTl

670 a Blaumanis, Rūdolfs. Purwa bridējs, 1933:

b (Rūdolfa Blaumaņa novele.)

w LNC04-000131747

Sourc.Dat.Found

670 a Blaumanis, Rūdolfs. Purwa bridejs, 1925:

b (stāsts)

w LNC04-000568791

location of creation

Latvia ...

▼ 0 references

language of work or name

Latvian ...

► 1 reference

genre

novella ...

► 1 reference

title

Purwa bridējs (Latvian)

► 1 reference

based on

Wader in the bog ...

► 1 reference

Ugunī (play) ...

► 1 reference

Pazudušais dēls (drama) ...

► 1 reference

MARC21 → WIKIDATA: WORK (3)

Leader	LDR	^ ^ ^ ^ ^ n z ^ ^ a ^ ^ ^ ^ ^ n ^ ^ 4500
Control No.	001	LNC10-000267479
Date and Time	005	20220606192138.0
Fixed Data	008	— — 181015nn^aznnnaabn^ ^ ^ ^ ^ a ^ aaa ^ ^ ^ ^
Catalog. Source	040	— — a LV-RiVB — — b lav — — e rda
Spec.Coded Date	046	k 1898
Type of Entity	075	a Darbs h W
Personal Name	100 1	a Blaumanis, Rūdolfs, d 1863-1908
Associat.Place	370	t Purva bridēis q Rīga (Latvija)
Assoc.Language	377	a lav l Latviešu valoda
Form of Work	380	a Stāsti, latviešu o LNC10-000066805
Timespan	388 1	a 1898
Seef.Trac.Per.N	400 1	a Blaumanis, Rūdolfs, d 1863-1908.
SAF.Trac.UniTl	530 0	w r a Purva bridējs g (spēlfilma) o LNC10-000320374
Sourc.Dat.Found	670	a Blaumanis, Rūdolfs. Purva bridējs, 1933: b (Rūdolfa Blaumaņa novele.) w LNC04-000131747
Sourc.Dat.Found	670	a Blaumanis, Rūdolfs. Purwa bridejs, 1925: b (stāsts) w LNC04-000568791

?

REFERENCES IN MARC21 (ALEPH v.23)

Type of Entity 075 a Darbs

b W

Personal Name 100 1 a Blaumanis, Rūdolfs,
 d 1863-1908.
 t Purva bridējs

Sourc.Dat.Found 670 a Blaumanis, Rūdolfs. Purva bridējs, 1933:
 b (Rūdolfa Blaumaņa novele.)
 w LNC04-000131747

Sourc.Dat.Found 670 a Blaumanis, Rūdolfs. Purwa bridejs, 1925:
 b (stāsts)
 w LNC04-000568791

Citation for a consulted source in which information is found related in some manner to the entity represented by the authority record or related entities. May also include the information found in the source.

Each source citation is contained in a separate 670 field.

Citation for a consulted source that yielded no information is contained in field 675 (Source Data Not Found).

Citations and information in this field are often not written in a form adequate for public user display.

REFERENCES IN WIKIDATA

Most statements on Wikidata should be verifiable in some source of information

References point to a source that supports the data in a statement

Like statements they have a property and value

- Value is the source
- Property is usually
 - [stated in \(P248\)](#) (for publications and media)
 - [reference URL \(P854\)](#) (for websites and online databases)

inception	1898 ...	 edit
▼ 2 references		
stated in	Latvian National Encyclopedia	 copy
Latvian National Encyclopedia Online ID	51626	
retrieved	9 February 2022	
stated in	Electronic Union Catalogue of Latvian Libraries of National Significance	 copy
LNB ID	000267479	
retrieved	8 February 2022	

PROPERTIES FOR REFERENCE

Property	Description	Example
reference URL (P854)	A link to an online source	<reference URL> http://catalogue.bnf.fr/ark:/12148/cb11953887q
retrieved (P813)	The date a source was consulted	<retrieved> 2019-07-30
language of work or name (P407)	The language of the consulted source	<language of work or name> English
stated in (P248)	The Wikidata item for the consulted source	<stated in> Internet Movie Database (Q37312)
archive URL (P1065)	Archived version of an online source	<archive URL> http://web.archive.org/web/20171111182830/ https://www.alexa.com/siteinfo/imdb.com/
archive date (P2960)	Date the archived version of an online source was crawled	<archive date> 2017-02-15
quotation (P1683)	A quotation from the cited source	<quote> Mary Shelley started writing Frankenstein in the summer of 1815.
page(s) (P304)	The page number(s) of the reference	<page(s)> 15-16
column (P3903)	The column number of the reference	<column> 5
chapter (P792)	The chapter of the reference	<chapter> 7
section, verse, paragraph, or clause (P958)	Other section designation for the reference	<section, verse, paragraph, or clause> Section V, Paragraph 12
inferred from (P3452)	Wikidata item from which the statement was inferred	<inferred from> Young Frankenstein (Q651923) (e.g. for statement that Young Frankenstein is a derivative work of Frankenstein)
based on heuristic (P887)	Rule used to derive the value	<based on heuristic> inferred from matronymic name (Q6926692) (as a source for a person's gender)
Wikimedia import URL (P4656)	URL referencing a page in a Wikimedia project (including Wikidata)	<Wikimedia import URL> https://www.wikidata.org/wiki/Q65940459#P2454 , https://www.wikidata.org/wiki/Property:P2454#P2302
subject named as (P1810)	The name by which the source refers to the item	<named as> Wm. Shakespeare
property for an identifier used within the source	Used with <stated in> an online source that assigns unique identifiers	<stated in> Virtual International Authority File (Q54919) ; VIAF ID (P214) 185508590

ADDING A REFERENCE FOR A WORK ITEM

inception

1898 ...

edit

▼ 2 references

copy

stated in	Latvian National Encyclopedia
Latvian National Encyclopedia Online ID	51626
retrieved	9 February 2022

copy

stated in	Electronic Union Catalogue of Latvian Libraries of National Significance
LNB ID	000267479
retrieved	8 February 2022

based on

Wader in the bog ...

▼ 1 reference

reference URL <https://www.filmas.lv/movie/1473/>

retrieved 8 June 2022

Possible authoritative sources:

- books (novels, textbooks, encyclopedias, atlases, guidebooks, etc.)
- academic, scientific, and industry publications (journal articles, theses, dissertations, trade magazines, conference proceedings, etc.)
- news sources (newspaper articles, radio and television news broadcasts, etc.)
- policy and legislation (including government and international organization reports)
- media (radio and television scripted series, movies, songs and music recordings, etc.)
- authority files

MARC21 → WIKIDATA: WORK (4)

EstHead.L.E.P.N

700 17 a Blaumanis, Rūdolfs,
d 1863-1908.
1 <http://viaf.org/viaf/2190154137634615370002>
u <http://viaf.org/viaf/2190154137634615370002>
2 VIAF
4 N

VIAF ID

2190154137634615370002

▼ 0 references

EstHead.L.E.UTI

730 7 a Purva bridējs
1 <https://www.wikidata.org/wiki/Q71416129>
u <https://www.wikidata.org/wiki/Q71416129>
2 Wikidata
4 N

Purva bridejs (Q71416129)...

short story, written by Rūdolfs Blaumanis

EstHead.L.E.UTI

730 7 a Purva bridējs
1 <https://enciklopedija.lv/skirklis/51626>
u <https://enciklopedija.lv/skirklis/51626>
2 Latvijas Nacionālā enciklopēdija
4 N

Enter date

Enter date

Enter date

915 03 a 20181015.03jogitas
915 03 a p20191018.03jogitas
915 03 a p20220606.03maritea

Latvian National Encyclopedia

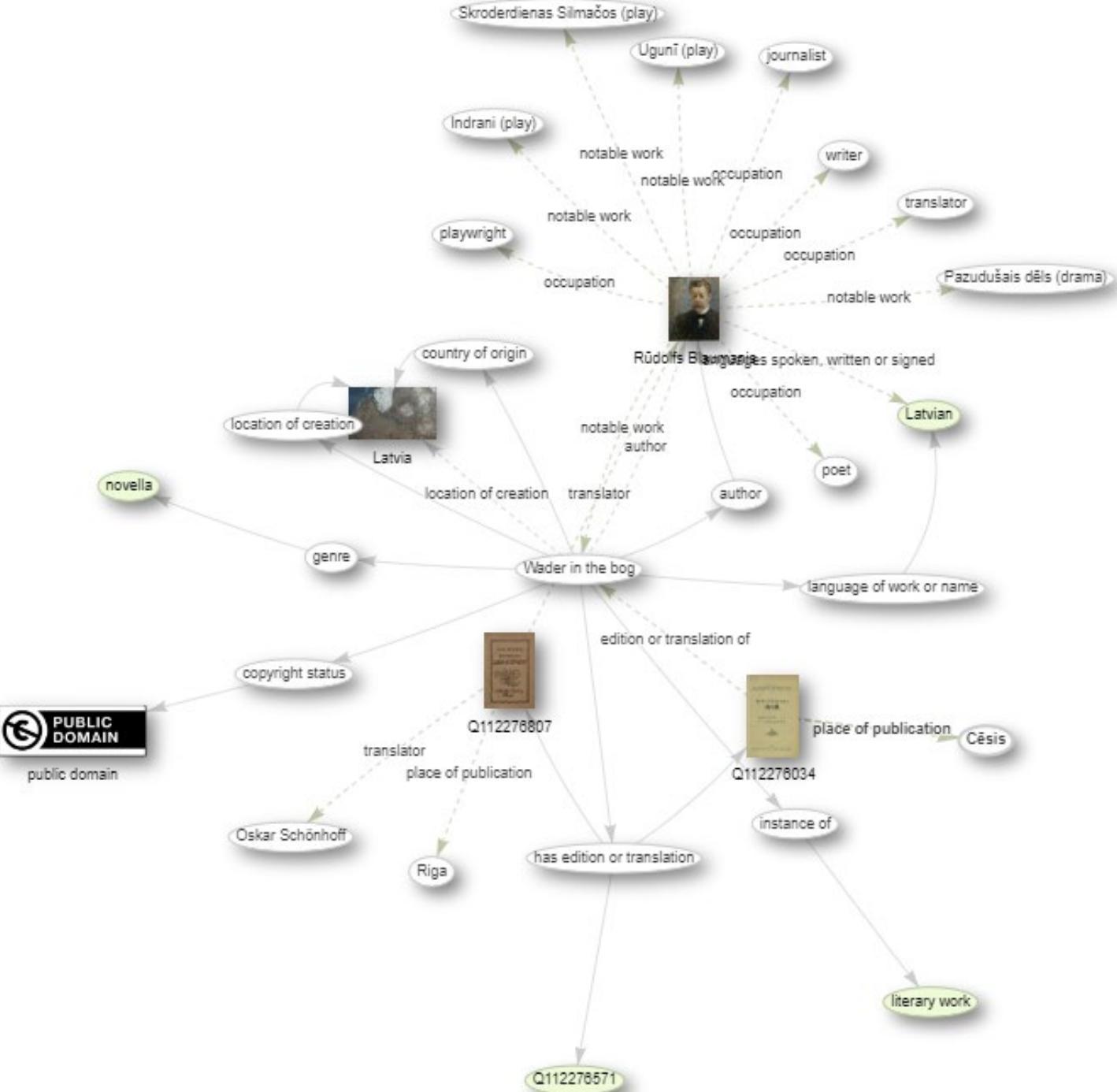
51626

Online ID

▼ 0 references

WIKIDATA ITEM: WORK

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SELECT ?node ?nodeLabel ?nodeImage ?childNode ?childNodeLabel ?childNodeImage ?r
WHERE {
  { BIND(wd:Q71416129 AS ?node)
    ?node ?p ?i.
    OPTIONAL { ?node wdt:P18 ?nodeImage. }
    ?childNode ?x ?p.
    ?childNode rdf:type wikibase:Property.
    FILTER(STRSTARTS(STR(?i), "http://www.wikidata.org/entity/Q"))
    FILTER(STRSTARTS(STR(?childNode), "http://www.wikidata.org/entity/P"))
  }
  UNION
  {
    BIND("EFFBD8" AS ?rgb)
    wd:Q71416129 ?p ?childNode.
    OPTIONAL { ?childNode wdt:P18 ?childNodeImage. }
    ?node ?x ?p.
    ?node rdf:type wikibase:Property.
    FILTER(STRSTARTS(STR(?childNode), "http://www.wikidata.org/entity/Q"))
  }
  OPTIONAL {
    ?node wdt:P18 ?nodeImage.
    ?childNode wdt:P18 ?childNodeImage.
  }
  SERVICE wikibase:label { bd:serviceParam wikibase:language "en". }
}
```



Thank you!

Funding institution: Latvian Council of Science

Funding number: Izp-2019/1-0365

Acronym: FLPP-2019-1

Funding text: This research is funded by the Latvian Council of Science, project [abbreviation or title of the project], project No. Izp-2019/1-0365

