Introduction to Wikidata

User:Ranjithsiji

Wikimedians of Kerala User Group

w.wiki/t9

https://commons.wikimedia.org/wiki/File:JimmyWalesJI5.jpg

Imagine a world in which every single person on the planet is given free access to the sum of all human knowledge. That's what we're doing

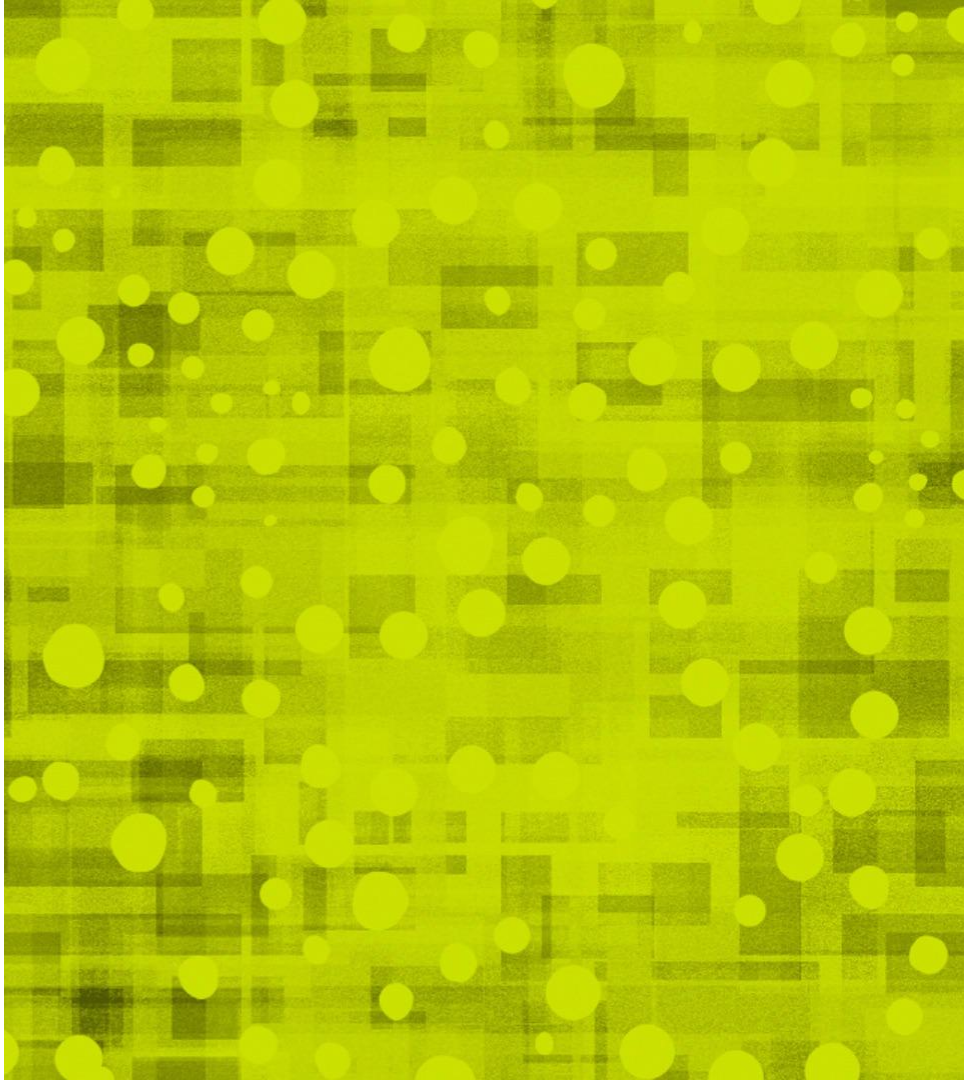
-- Jimmy Wales (https://en.wikiquote.org/wiki/Jimmy_Wales#Quotes)

Data

Collection of Information
a set of values of subjects

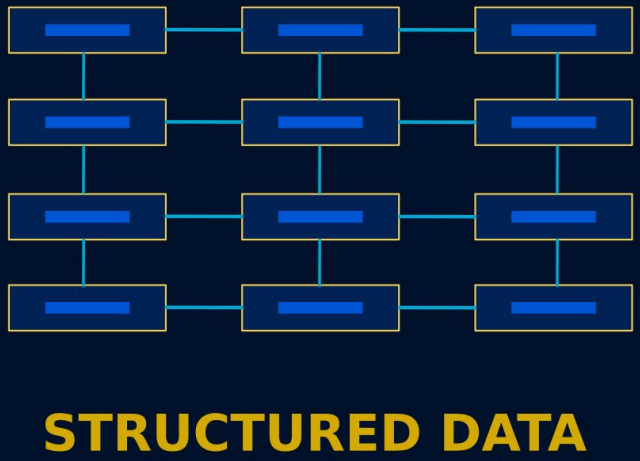
Unstructured Data

- Text -> Article, Poem, Script, Storyboard
- Images
- Audio,
- Video
- Smell, Taste



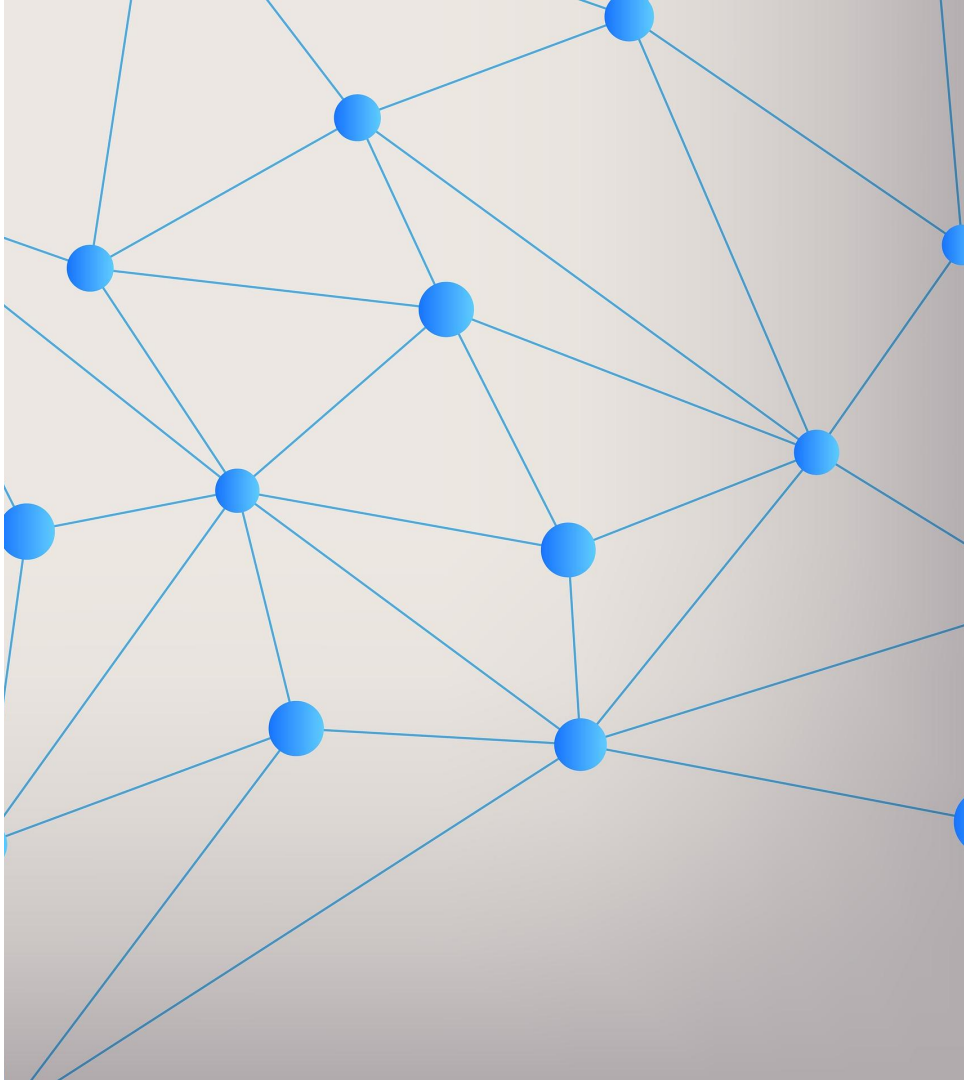
Structured Data

- List
- Table
- Comma Separated Values
- Database
- Linked Data

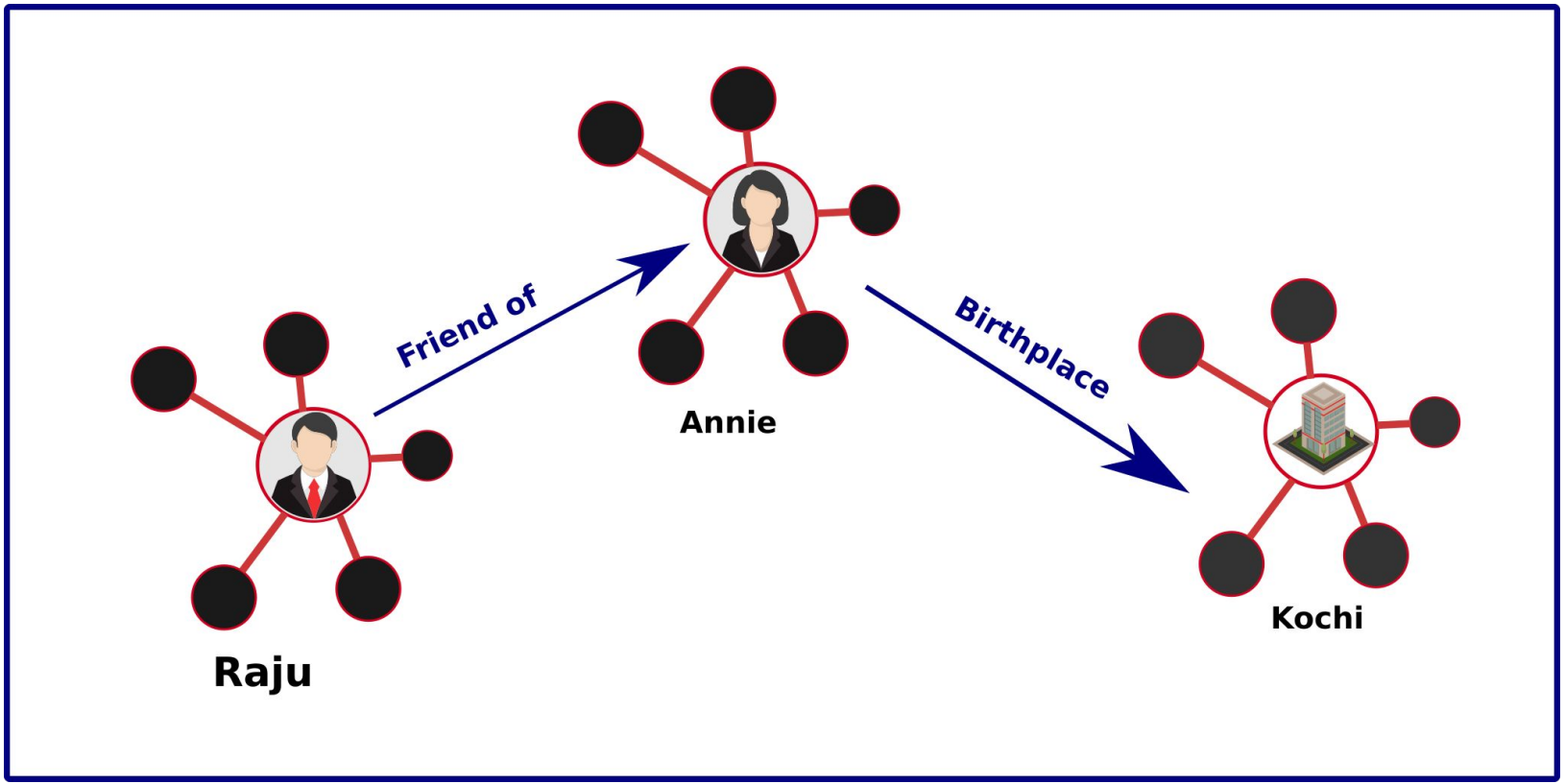


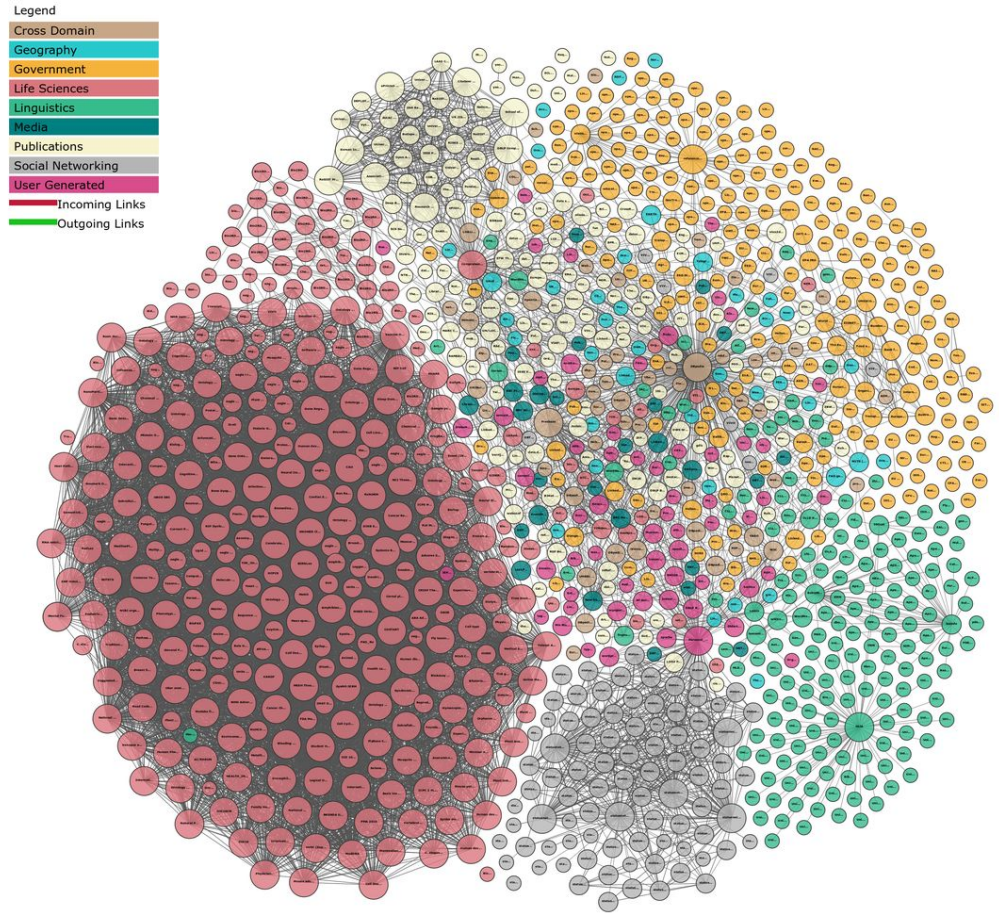
Linked Data

One Data point is connected to another data through a condition



Linked Data





Linking Open Data cloud diagram. http://lod-cloud.net/

WIKIDATA

www.wikidata.org

What is Wikidata?

- Editable
- Structured and Linked Data Warehouse
- Available with Free License (CC0)

What is Wikidata?

- Pure Free Software, Pure free data (CC0) - Do whatever you want. No Questions asked
- Open and editable by anyone, including the ontology
- A sister project of Wikipedia, by Wikimedia
- Multilingual support from the first day
- More and more practically used in digital humanities

Structured and linked data

- Structured data: Each unit of information is described by three: **subject, predicate, and object or as Wikidata says: item, property, value.**
    - Each three can be further specified with restrictions - for other three (time period, context, source, point of view ...)
- Data statements link to each other, enabling discovery and reasoning.

A brief insight

- Universe (Q1)
- India(Q668)
- Palakkad (Q1006240)
- and / instance of(P31) <- Property

Item: Earth (Q2)

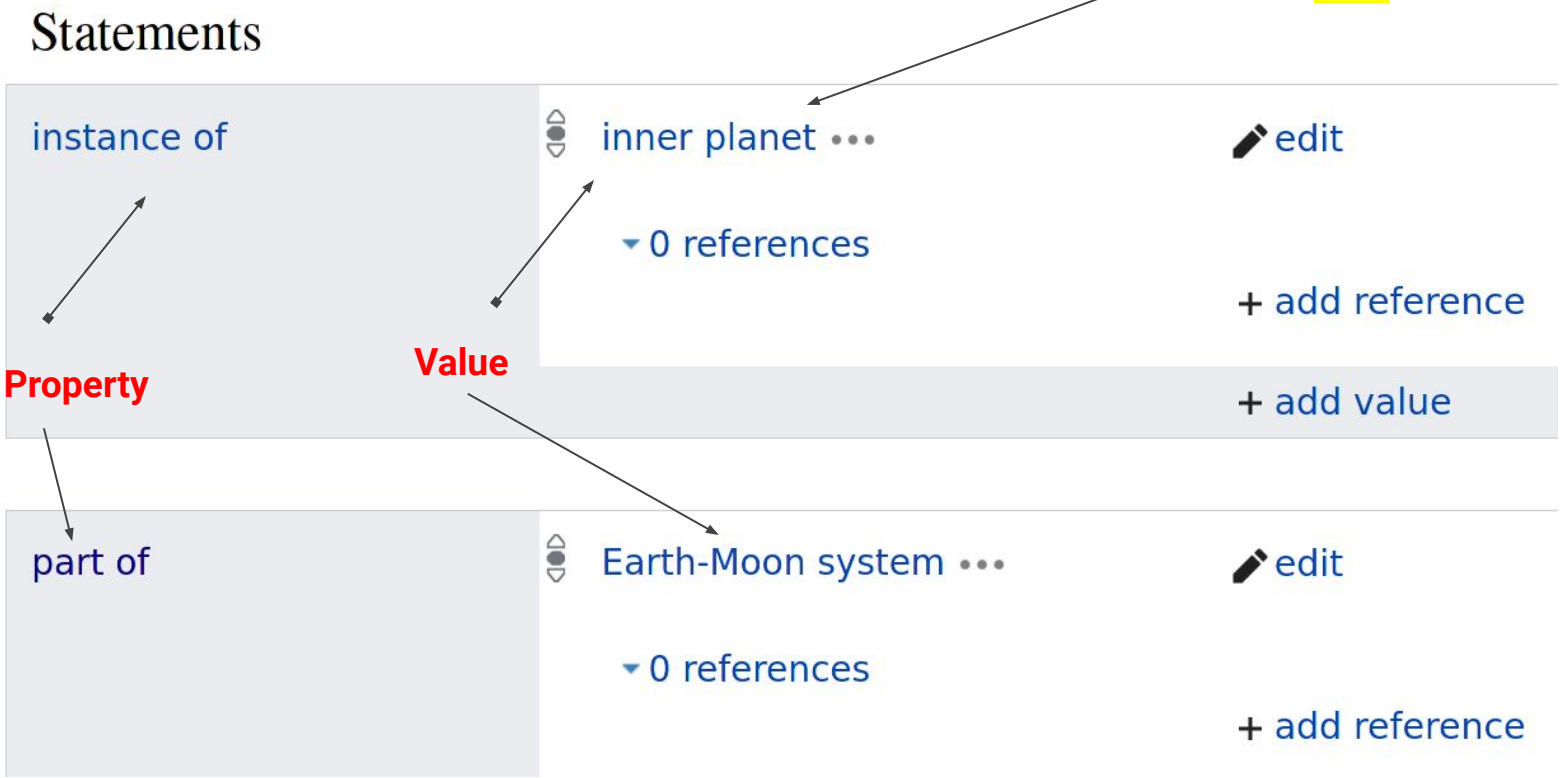


Image of Earth

edit

Планета Земли фотография КА Юноны.jpg

640 × 480; 32 KB

vehicle	Juno •••
distance from Earth	0.06457 astronomical unit •••
point in time	26 August 2011 •••

edit

The Earth seen from Apollo 17.jpg

3,000 × 3,002; 6.21 MB

point in time	7 December 1972 •••
media legend	Dünya'nın Apollo 17'den görünüşü (Turkish) Sininen marmorikuula, kuuluisa kuva Maasta vuodelta 1972. (Finnish) Jorden sedd från Apollo 17 (Swedish)
distance from Earth	29,000 kilometre •••

Structure of Wikidata

We have a Q (item)

Q have a property P

P have a value Another Q

This is called a Statement

Statement = Item --> Property --> Value

Statement = Item --> Property --> Value

Earth --> highest-point --> Mount Everest

Mount Everest --> elevation above sea level --> 8848 meters

Earth --> deepest point --> Challenger Deep

Challenger Deep --> elevation above sea level --> -10,994±1 metre

Earth -->

highest-point: Mount Everest

deepest point: Challenger Deep

Challenger Deep -->

elevation above sea level: -10,994±1 metre

Mount Everest -->

elevation above sea level: 8848 meters

Earth (Q2) --> highest-point (P610) --> Mount Everest (Q513)

Mount Everest (Q513) --> elevation above sea level (P2044) --> 8848 meters

Earth (Q2) --> deepest point (P1589) --> Challenger Deep (Q459173)

Challenger Deep (Q459173) --> elevation above sea level (P2044) --> -10,994±1 metre

Only Numbers Now.

Q2 --> P610 --> Q513

Q513 --> P2044 --> 8848 meters

Q2 --> P1589 --> Q459173

Q459173 --> P2044 --> -10,994±1 meters

Why numbers?

Labels are ambiguous:

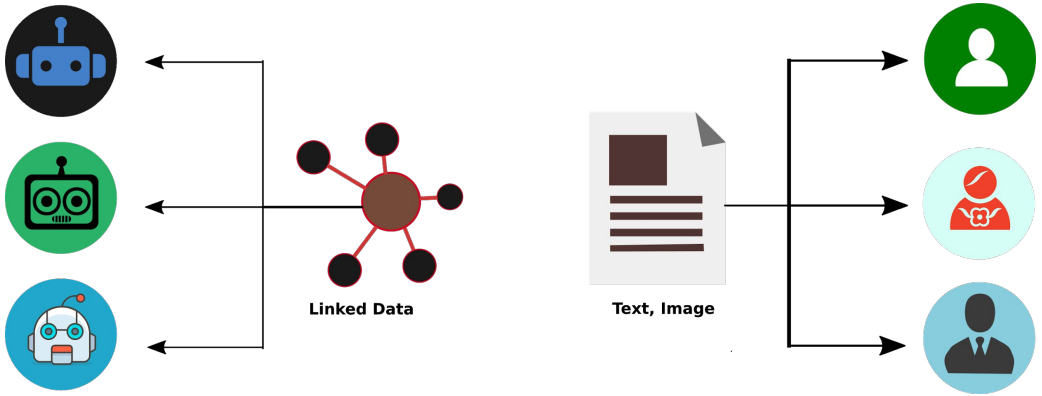
What is London?

- **City in England, City in Canada,**
- **family name,**
- **personal name, movie company, hotel?**

Why Numbers ?

Language-neutral - not everybody speaks English!

Robot-friendly (robots love numbers ;)



So What is in Wikidata ?

Universe (Q1)

Pencil (Q14674)

Happy Birthday to You (Q167545)

global warming (Q7942)

Palakkad (Q1006240)

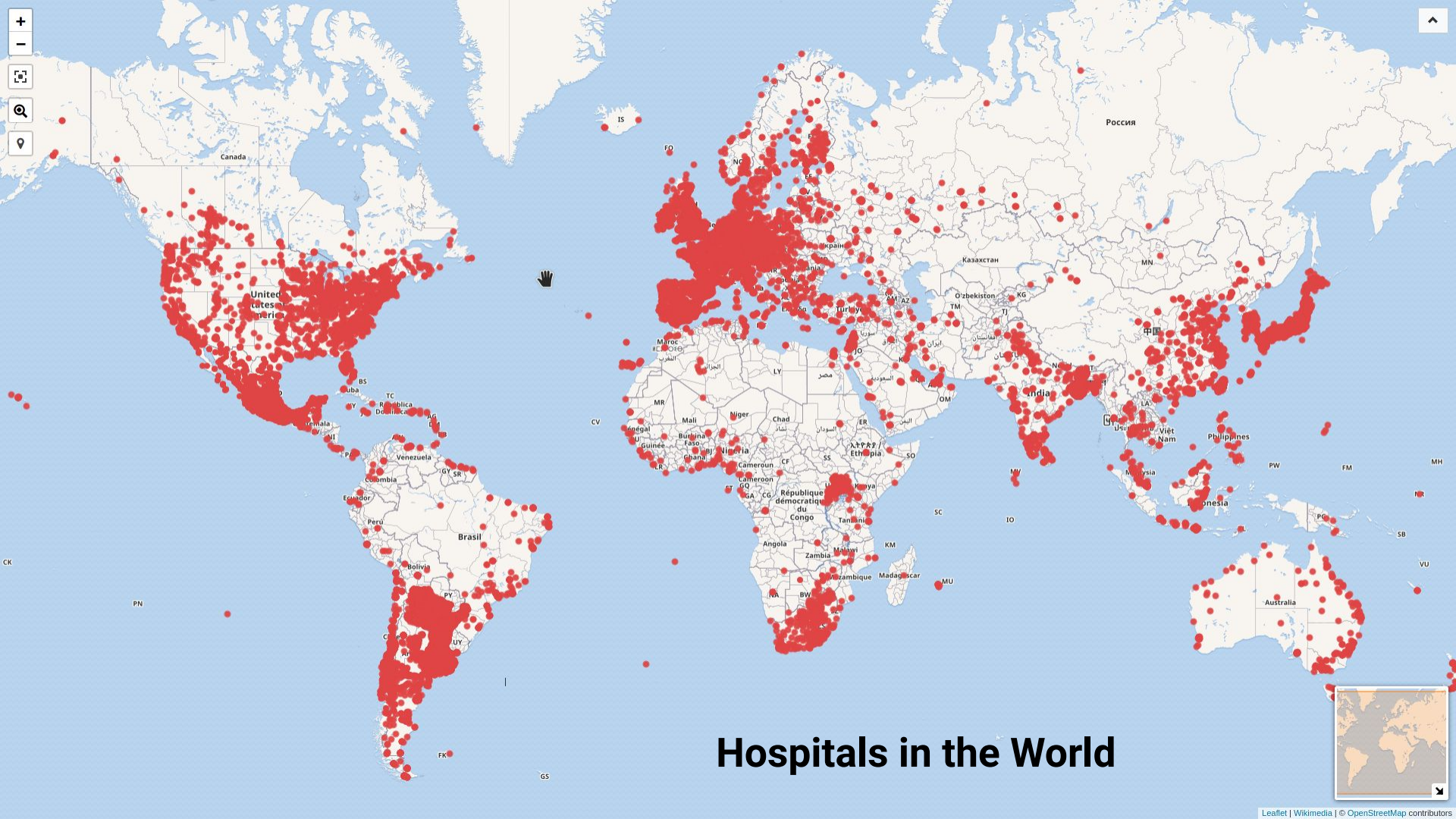
God (Q190)

parish church (Q317557)

ice cream (Q13233)

friendship (Q491)

Everything in the Universe or Beyond


Hospitals in the World
Leaflet | Wikimedia | © OpenStreetMap contributors

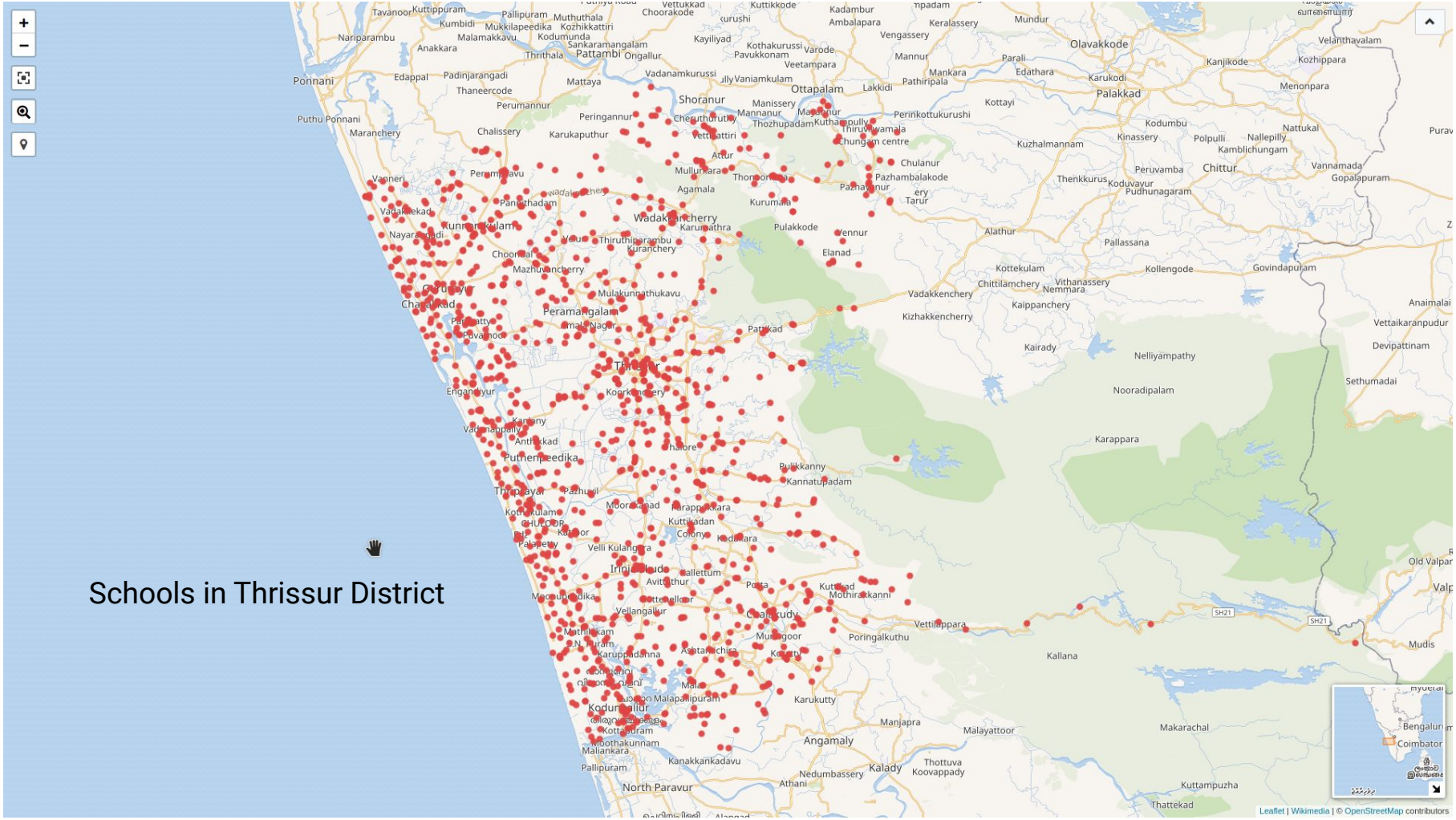
Run this

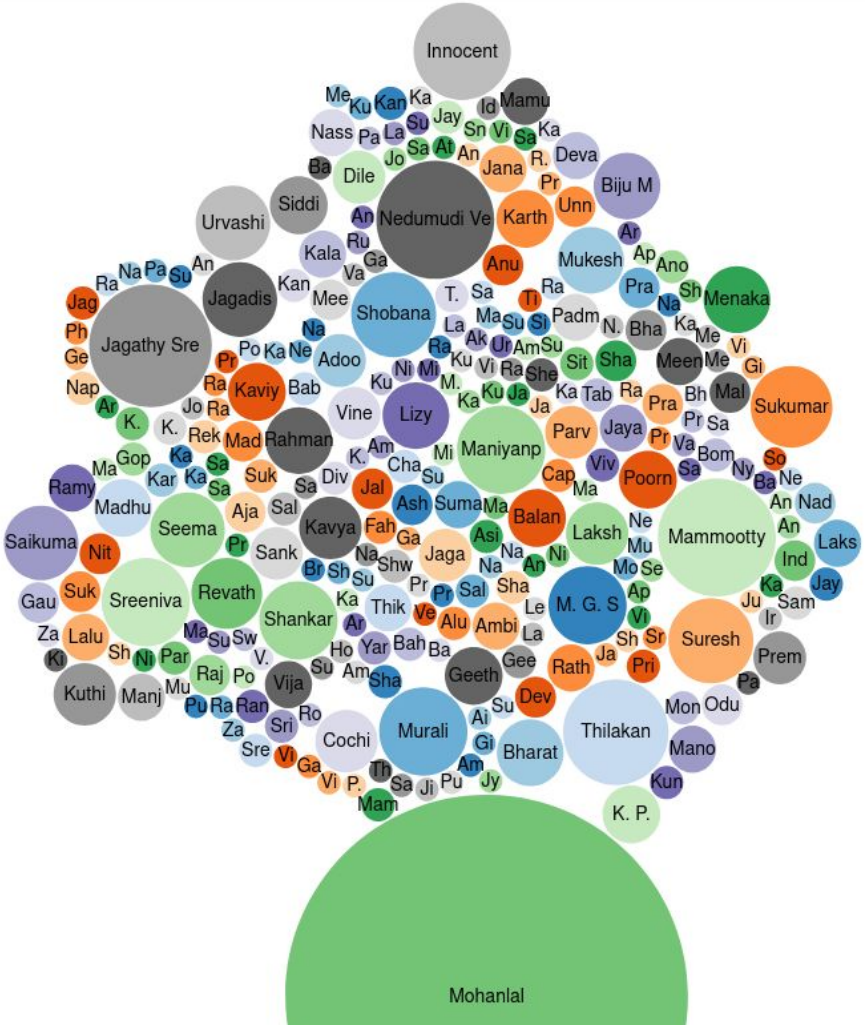
https://w.wiki/JgW

Go to -> https://query.wikidata.org

```
#Map of hospitals

#added 2017-08

#defaultView:Map

SELECT * WHERE {

  ?item wdt:P31/wdt:P279* wd:Q16917;

        wdt:P625 ?geo .

}
```

Map is Free


Schools in Thrissur District
Leaflet | Wikimedia | © OpenStreetMap contributors



Mohanlal
Collaborated with
Other Actors
https://w.wiki/bw5

Timeline of Mammootty Films https://w.wiki/bw8

Wikidata Projects

Wikiproject India

https://w.wiki/tQ

Wikiproject Kerala

https://w.wiki/CvD

COVID-19 Taskforce

https://w.wiki/bwA

Crotos art browser -

http://zone47.com/crotos/?l=en

Crotos

Cosmos
Callisto
Lab

Search

145 Results

Language English Images/page 20

→ Contribution mode

Everything Creator : **Michelangelo**

-40000 2016

1 2 3 4 5 ... 8 **Random**

Bearded Slave
Michelangelo - Galleria dell'Accademia

The Crucifixion of St. Peter
Michelangelo - Vatican Museums

The Holy Family with St John the Baptist
Michelangelo - Ashmolean Museum

Dos luchadores
Michelangelo - Casa Buonarroti

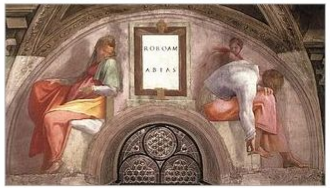
Dusk
Michelangelo - Medici Chapels

The Ancestors of Christ: Zerubbabel, Abiud and Eliakim
Michelangelo - Sistine Chapel

Manchester Madonna
Michelangelo - National Gallery

Nude woman
Michelangelo - Casa Buonarroti

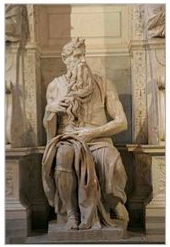
Slaves
Michelangelo - Louvre Museum



Sistine Chapel lunettes - Rehoboam, Abijah
Michelangelo - Vatican Museums

Achim and Eliud
Michelangelo - Vatican Museums

Uzziah, Jotham and Ahaz
Michelangelo - Vatican Museums



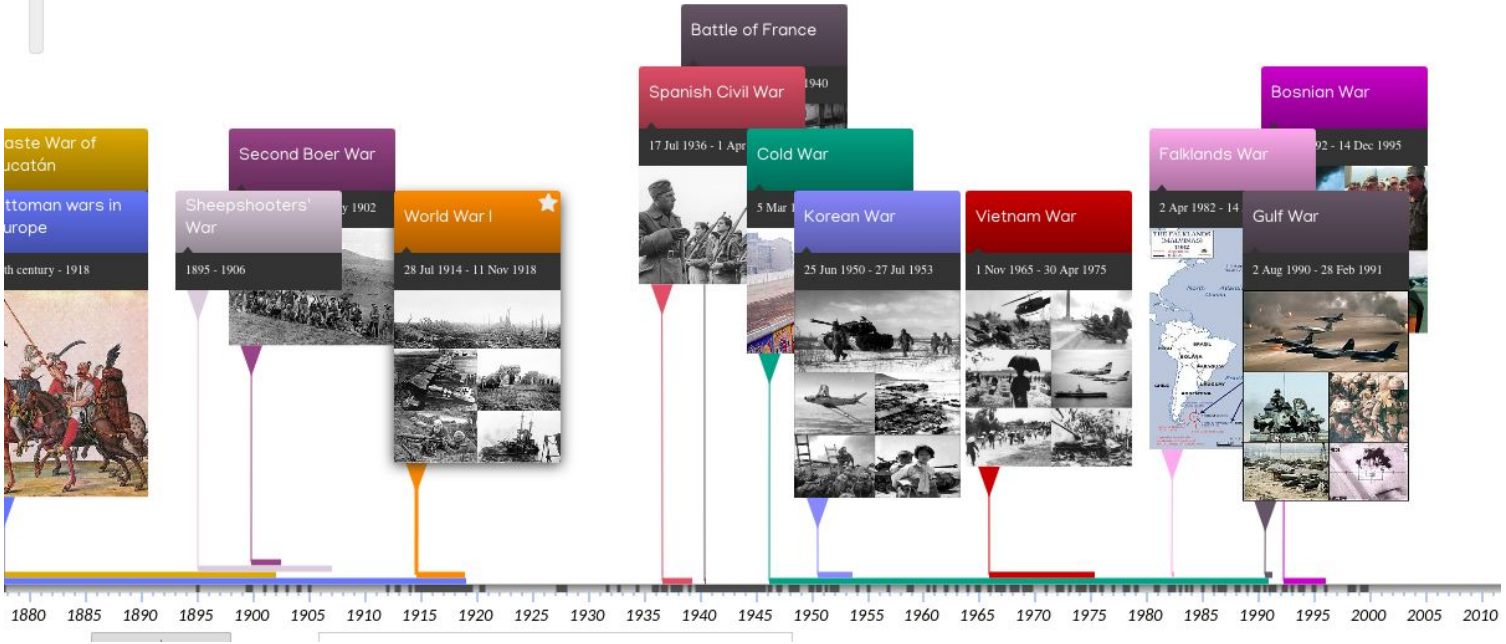
Moses
Michelangelo - Basilica of St. Peter in Chains

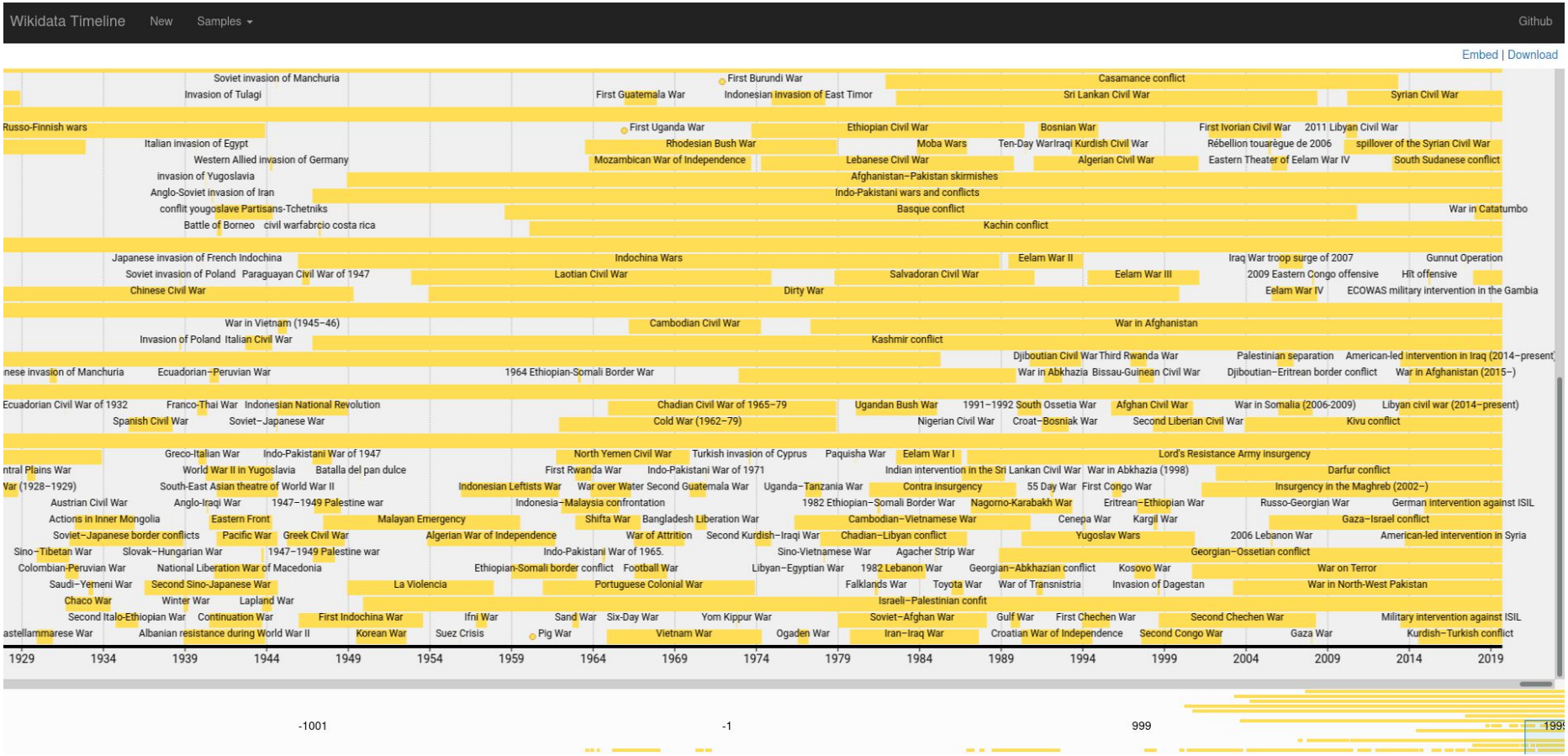
Madonna of the Stairs
Michelangelo - Casa Buonarroti

histropedia

Top 20 Timelines

Start searching for your topic...




Wikidata Timeline
New
Samples
Github
Embed | Download
Soviet invasion of Manchuria
Invasion of Tulagi
First Burundi War
First Guatemala War
Indonesian invasion of East Timor
Casamance conflict
Sri Lankan Civil War
Syrian Civil War
Russo-Finnish wars
First Uganda War
Ethiopian Civil War
Bosnian War
First Ivorian Civil War
2011 Libyan Civil War
Italian invasion of Egypt
Rhodesian Bush War
Moba Wars
Ten-Day War
Iraqi Kurdish Civil War
Rébellion touarègue de 2006
spillover of the Syrian Civil War
Western Allied invasion of Germany
Mozambican War of Independence
Lebanese Civil War
Algerian Civil War
Eastern Theater of Eelam War IV
South Sudanese conflict
invasion of Yugoslavia
Afghanistan–Pakistan skirmishes
Anglo-Soviet invasion of Iran
Indo-Pakistani wars and conflicts
conflit yougoslave Partisans-Tchetniks
Basque conflict
War in Catatumbo
Battle of Borneo
civil warfabrcio costa rica
Kachin conflict
Japanese invasion of French Indochina
Indochina Wars
Eelam War II
Iraq War troop surge of 2007
Gunnut Operation
Soviet invasion of Poland
Paraguayan Civil War of 1947
Laotian Civil War
Salvadoran Civil War
Eelam War III
2009 Eastern Congo offensive
Hit offensive
Chinese Civil War
Dirty War
Eelam War IV
ECOWAS military intervention in the Gambia
War in Vietnam (1945–46)
Cambodian Civil War
War in Afghanistan
Invasion of Poland
Italian Civil War
Kashmir conflict
Djiboutian Civil War
Third Rwanda War
Palestinian separation
American-led intervention in Iraq (2014–present)
nese invasion of Manchuria
Ecuadorian–Peruvian War
1964 Ethiopian-Somali Border War
War in Abkhazia
Bissau-Guinean Civil War
Djiboutian–Eritrean border conflict
War in Afghanistan (2015–)
Ecuadorian Civil War of 1932
Franco-Thai War
Indonesian National Revolution
Chadian Civil War of 1965–79
Ugandan Bush War
1991–1992 South Ossetia War
Afghan Civil War
War in Somalia (2006-2009)
Libyan civil war (2014–present)
Spanish Civil War
Soviet–Japanese War
Cold War (1962–79)
Nigerian Civil War
Croat–Bosniak War
Second Liberian Civil War
Kivu conflict
Greco-Italian War
Indo-Pakistani War of 1947
North Yemen Civil War
Turkish invasion of Cyprus
Paquisha War
Eelam War I
Lord's Resistance Army insurgency
ntral Plains War
World War II in Yugoslavia
Batalla del pan dulce
First Rwanda War
Indo-Pakistani War of 1971
Indian intervention in the Sri Lankan Civil War
War in Abkhazia (1998)
Darfur conflict
War (1928–1929)
South-East Asian theatre of World War II
Indonesian Leftists War
War over Water
Second Guatemala War
Uganda–Tanzania War
Contra insurgency
55 Day War
First Congo War
Insurgency in the Maghreb (2002–)
Austrian Civil War
Anglo-Iraqi War
1947–1949 Palestine war
Indonesia–Malaysia confrontation
1982 Ethiopian–Somali Border War
Nagorno-Karabakh War
Eritrean–Ethiopian War
Russo-Georgian War
German intervention against ISIL
Actions in Inner Mongolia
Eastern Front
Malayan Emergency
Shifta War
Bangladesh Liberation War
Cambodian–Vietnamese War
Cenepa War
Kargil War
Gaza–Israel conflict
Soviet–Japanese border conflicts
Pacific War
Greek Civil War
Algerian War of Independence
War of Attrition
Second Kurdish–Iraqi War
Chadian–Libyan conflict
Yugoslav Wars
2006 Lebanon War
American-led intervention in Syria
Sino–Tibetan War
Slovak–Hungarian War
1947–1949 Palestine war
Indo-Pakistani War of 1965.
Sino-Vietnamese War
Agacher Strip War
Georgian–Ossetian conflict
Colombian-Peruvian War
National Liberation War of Macedonia
Ethiopian-Somali border conflict
Football War
Libyan–Egyptian War
1982 Lebanon War
Georgian–Abkhazian conflict
Kosovo War
War on Terror
Saudi–Yemeni War
Second Sino-Japanese War
La Violencia
Portuguese Colonial War
Falklands War
Toyota War
War of Transnistria
Invasion of Dagestan
War in North-West Pakistan
Chaco War
Winter War
Lapland War
Israeli–Palestinian confit
Second Italo-Ethiopian War
Continuation War
First Indochina War
Ifni War
Sand War
Six-Day War
Yom Kippur War
Soviet–Afghan War
Gulf War
First Chechen War
Second Chechen War
Military intervention against ISIL
astellammarese War
Albanian resistance during World War II
Korean War
Suez Crisis
Pig War
Vietnam War
Ogaden War
Iran–Iraq War
Croatian War of Independence
Second Congo War
Gaza War
Kurdish–Turkish conflict
1929
1934
1939
1944
1949
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1959
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1999
2004
2009
2014
2019
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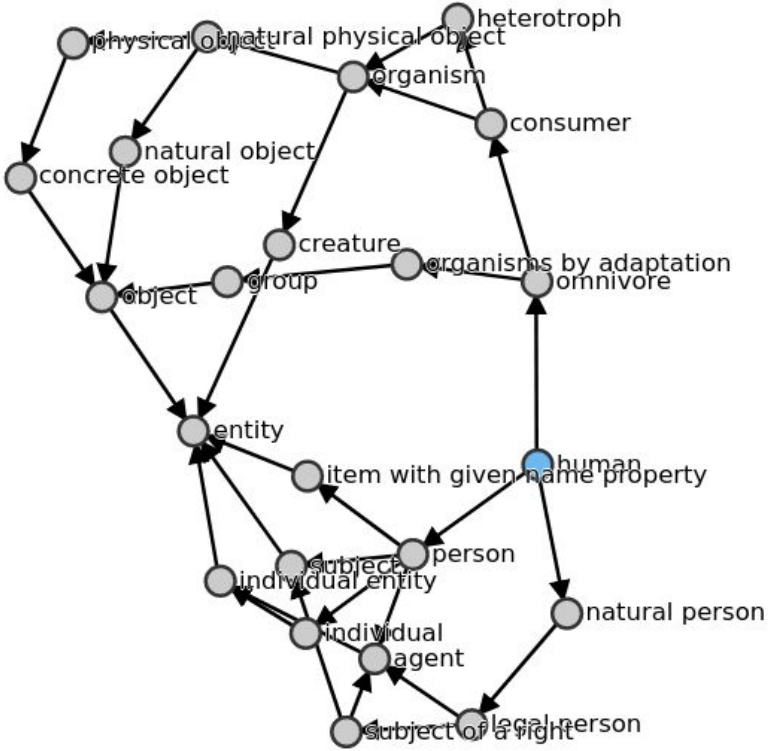
-1
999


heterotroph
physical object
natural physical object
organism
consumer
natural object
concrete object
creature
organisms by adaptation
group
omnivore
object
entity
human
item with given name property
person
subject
individual entity
natural person
individual
agent
legal person
subject of a right

Edit Wikidata

Create an account

Login

Find an Item

Add Data

Querying Wikidata

* query Wikidata using [[SPARQL]]

* Wikidata will tell you everything it knows, but no more

* The more data and the more links in Wikidata, the more useful it becomes (so contribute!)

Video Training

Video by Asaf Bartov

https://www.youtube.com/watch?v=eVrAx3AmUvA

http://bit.ly/wikidatavideo

Wikidata, Knowledge Graphs, and Beyond

Denny Vrandecic, founder of Wikidata.

https://www.youtube.com/watch?v=Oips1aW738Q

Presentations

Wiki + data = Wikidata, and why you should care - https://w.wiki/bzA

Beyond the basics - Intermediate Wikidata techniques - https://w.wiki/bzB

WDQS and SPARQL – WikidataCon 2017 - https://w.wiki/bzC

Video in Malayalam

Video by Mujeeb Rahman

https://www.youtube.com/watch?v=JoVCzvDjd78

http://bit.ly/wikidataml

Now that you have the power. This is just a beginning.

Questions ?

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Wikimedians of Kerala User Group

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- Histropedia - http://histropedia.com/timeline/
- Wikidata timeline - https://wikidata-timeline.toolforge.org/
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- Robot Icons - https://commons.wikimedia.org/wiki/File:Cib-probot_(CoreUI_Icons_v1.0.0).svg , https://commons.wikimedia.org/wiki/File:Noun_Robot_212089_4380c9.svg, https://commons.wikimedia.org/wiki/File:092-robot-face-1.svg
- Human Icons - https://commons.wikimedia.org/wiki/File:Wikimania2019_person_icon.svg,
- Text icon - https://commons.wikimedia.org/wiki/File:Icon-txt.svg