

# Eduard Jurášek - Internet slang vocabulary (topic 5)

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The proposed seminar project aims to implement graph database of the contemporary Internet slang vocabulary represented in RDF. By internet slang, I refer words, phrases or acronyms frequently used online and/or in casual speech as well.

These words have complex relationships and linguistic backstories. The graph database is planned not only as a “word” – “meaning” principle, but include: -Definition -Origin -Example in sentence -Community usage

This project aims to make a Urban Dictionary - like database represented as a graph, but with additional perks mentioned above. A real-world usage is to make a web UI layer and plot the results in an appealing form directly in a web browser (not yet implemented).

The development was made in a VSCode, Protege and Fuseki on a Kubuntu Linux.

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## Words

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Around 120 words are covered in .ttl

- Bait
- Troll
- b4
- 2day
- brb
- OMG
- cmng
- idc
- LOL
- Only in Ohio
- Floptropica
- Wakanda
- Covfefe
- Rizz
- Bussin
- Cheugy
- Tea
- Blaccent
- Finsta
- Slaycation
- Skibidi
- AMA
- HP
- gg
- glhf

- DPS
- opp
- Karen
- NPC
- poggers
- u
- ngl
- af
- fw
- ts
- ur
- rn
- fr
- tf
- Cooked
- pfp
- Zaddy
- Goated
- Pookie
- Twin
- Honse
- Car
- Type beat
- Scrumpt
- Offed
- tbr
- atp
- GTA
- gd
- ikr
- Vibe
- smh
- yt
- Poser
- Gatekeeper
- Based
- mb
- Rule 34
- Ragebait
- 6-7
- 69
- 420
- Rule 621
- 21
- 911
- cap

- rly
- /s
- Gymmaxing
- DYEL
- op
- Frogposter
- AI slop
- r/
- omegalul
- monkaS
- Sadge
- Sus
- Amogus
- Impostor
- Copium
- pls
- Selfie
- Gigachad
- Sigma
- UwU
- OwO
- :3
- bnuy
- Birb
- Yeet
- Jet2Holiday
- Grubhub
- Bing chilling
- Clanker
- W/L
- FL
- Mid
- Peak
- Flop
- Mog
- Soft launch
- Stand
- Simp
- Delulu
- Ratio
- Main Character Energy
- Fanum Tax
- Gyatt
- Mewing
- Brainrot

The Definition and the Example in Sentence were used from <https://www.urbandictionary.com/>. Some parts were edited or censored. For finding the creation dates and groups of origin, GPT-5 in a Deep Research mode was used for some parts I struggled to find manually.

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## Using already existing ontologies

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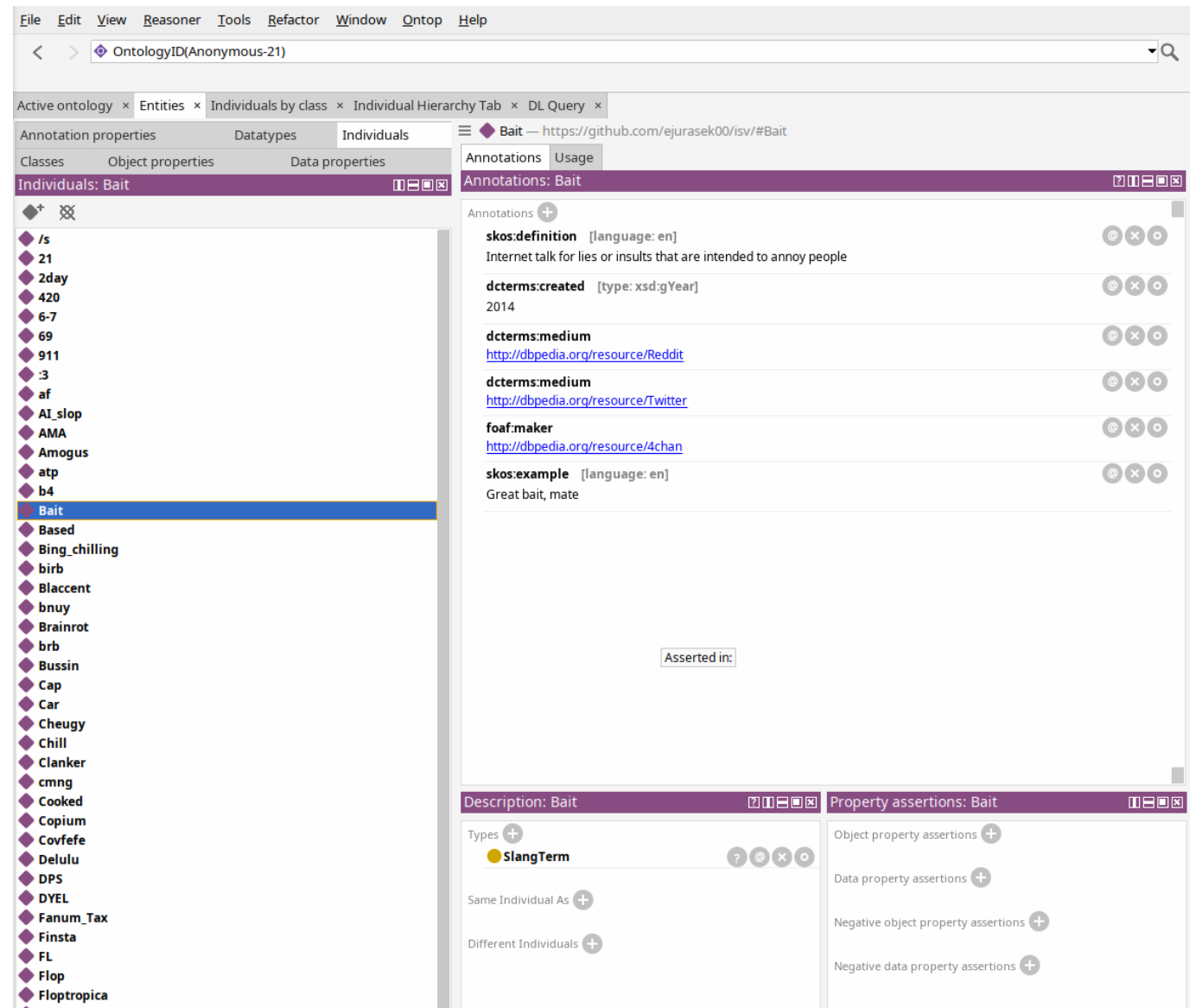
@prefix skos: <http://www.w3.org/2004/02/skos/core#> . This is a backbone of the project and helps to describe the concept, definition and example of usage for each SlangTerm.

@prefix foaf: <http://xmlns.com/foaf/0.1/> . foaf:maker declares who is responsible for the origin of the SlangTerm.

@prefix dcterms: <http://purl.org/dc/terms/> . dcterms:created is used to state when was the woSlangTermrd created.

@prefix dbr: <http://dbpedia.org/resource/> . dbr:something connects the SlangTerm to a link on DBPedia where more information about the topic can be found if someone is not familiar in the field.

@prefix xsd: <http://www.w3.org/2001/XMLSchema#> . dcterms:created "YEAR"^^xsd:gYear; assign year or creation of the SlangTerm as a date format.

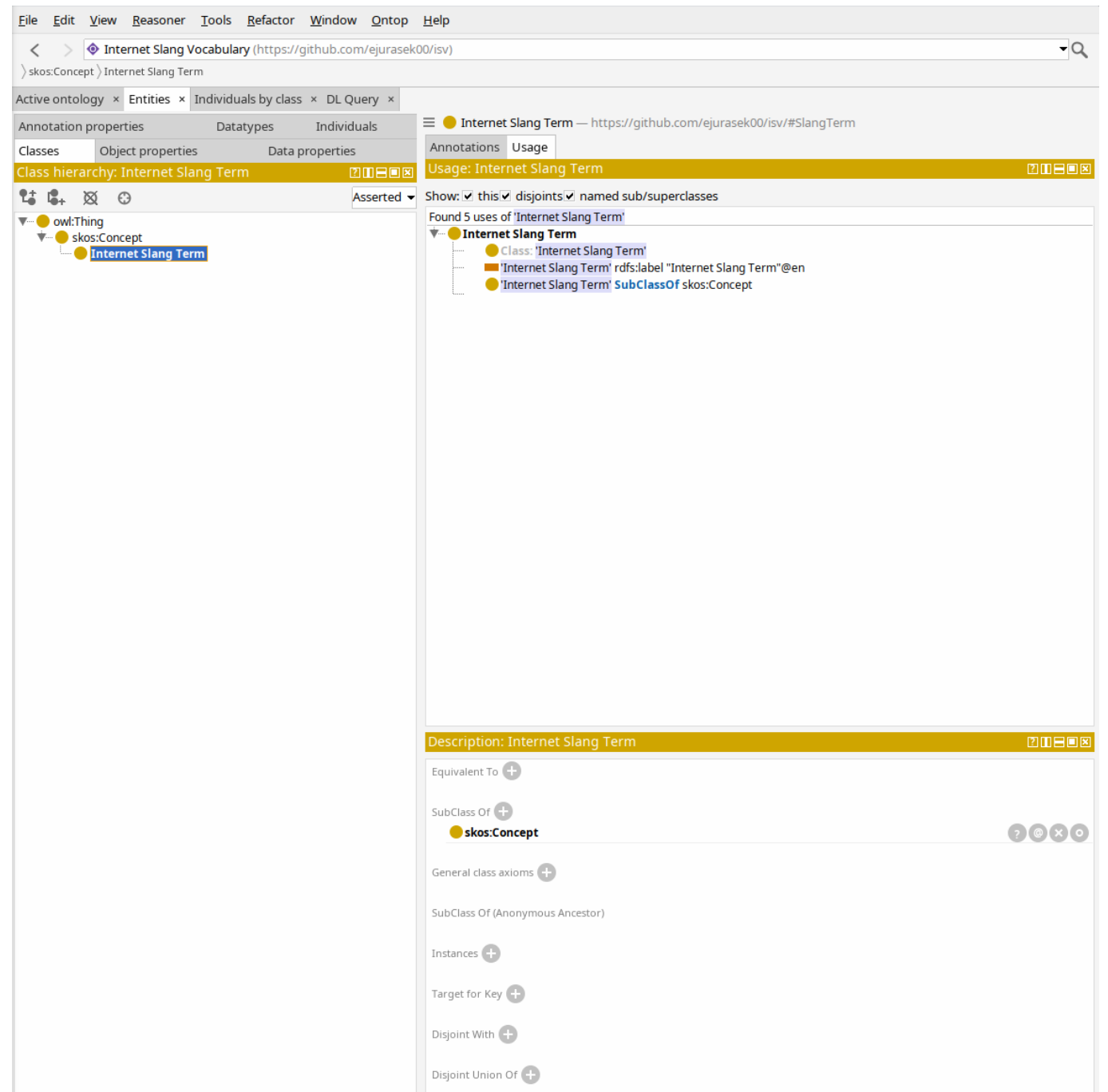


# Using own ontology

I named this ontology as ISV - Internet Slang Vocabulary.

@prefix isv: <https://github.com/ejurasek00/isv/#> . (Custom) – This ontology defines the specific class isv:SlangTerm and project metadata.

isv:SlangTerm is a subclass of skos:Concept which is a subclass of owl:Thing.



# Apache Jena Fuseki

For the query part, Apache Jena Fuseki 5.6.0 on Kubuntu Linux 24.04.2 LTS was used. I used the Web UI in Firefox using the port 3030. <http://localhost:3030/>

While adding data to the dataset, both data.ttl and isv.ttl are needed to be uploaded.

552 tripples were uploaded in data.ttl and 7 triples in isv.ttl

← → ↺

http://localhost:3030/#/dataset/ism/upload

⚙️ ☆ ⌵

🔍 ⌵ ⌵

Apache Jena Fuseki

datasets ⚙️ manage 🗨 help

server status

/ism

🔍 query ⤴ add data ⤴ edit ⤴ info

Upload files /ism/data

Load data into the default graph of the currently selected dataset, or the given named graph. You may upload any RDF format, such as Turtle, RDF/XML or TRIG.

Dataset graph name

Leave blank for default graph

Files to upload

+ select files upload all

2/2

name	size	speed	status	actions
data.ttl	34.43kb	34.64kb/s	<div>100.00</div> <div>Triples uploaded: 552</div>	<div>upload now</div> <div>remove</div>
ism.ttl	705 bytes	917 bytes/s	<div>100.00</div> <div>Triples uploaded: 7</div>	<div>upload now</div> <div>remove</div>

# Queries

Two queries were executed in Apache Jena Fuseki.

## Query 1 - Covid-19

In the first one, I was interested which of the Concepts were created during the Covid-19 Pandemic. To get the results, two filters were used: year of creation is greater than 2018 and smaller than 2023.

The query is listed below:

```
PREFIX skos: <http://www.w3.org/2004/02/skos/core#>
PREFIX dcterms: <http://purl.org/dc/terms/>
PREFIX xsd: <http://www.w3.org/2001/XMLSchema#>

SELECT ?Concept ?created

WHERE {
  ?Concept dcterms:created ?created .

  FILTER (?created > "2018"^^xsd:gYear)
  FILTER (?created < "2023"^^xsd:gYear)
}
```

This query found 23 entries in 0.056 seconds.

The entries were:

Simp, Sadge, Flop, Copium, Grubhub, bnuy, Mid, Sus, Gymmaxing, Impostor, Soft launch, Ratio, Bussin, Main Character Energy, Cheugy, Rizz, Bing chilling, Amogus, Gatekeeper, Fanum tax, Gyat, Only in Ohio and smh.

/isv

query

add data

edit

info

SPARQL Query

To try out some SPARQL queries against the selected dataset, enter your query here.

Example Queries

Selection of triples

Selection of classes

Prefixes

rdf

rdfs

owl

xsd

SPARQL Endpoint

Content Type (SELECT)

Content Type (GRAPH)

/isv/query

JSON

Turtle

1

PREFIX skos: <http://www.w3.org/2004/02/skos/core#>

2

PREFIX dcterms: <http://purl.org/dc/terms/>

3

PREFIX xsd: <http://www.w3.org/2001/XMLSchema#>

4

5

SELECT ?Concept ?created

6

7

WHERE {

8

?Concept dcterms:created ?created .

9

10

FILTER (?created > "2018"^^xsd:gYear)

11

FILTER (?created < "2023"^^xsd:gYear)

12

}

Table

Response

23 results in 0.056 seconds

Simple view

Ellipse

Filter query results

Page size: 50

Concept	created
1<https://github.com/ejurasek00/isv/#Simp>	"2019"^^<http://www.w3.org/2001/XMLSchema#gYear>
2<https://github.com/ejurasek00/isv/#Sadge>	"2019"^^<http://www.w3.org/2001/XMLSchema#gYear>
3<https://github.com/ejurasek00/isv/#Flop>	"2019"^^<http://www.w3.org/2001/XMLSchema#gYear>
4<https://github.com/ejurasek00/isv/#Copium>	"2019"^^<http://www.w3.org/2001/XMLSchema#gYear>
5<https://github.com/ejurasek00/isv/#Grubhub>	"2020"^^<http://www.w3.org/2001/XMLSchema#gYear>
6<https://github.com/ejurasek00/isv/#bnuy>	"2020"^^<http://www.w3.org/2001/XMLSchema#gYear>
7<https://github.com/ejurasek00/isv/#Mid>	"2020"^^<http://www.w3.org/2001/XMLSchema#gYear>
8<https://github.com/ejurasek00/isv/#Sus>	"2020"^^<http://www.w3.org/2001/XMLSchema#gYear>
9<https://github.com/ejurasek00/isv/#Gymmaxing>	"2020"^^<http://www.w3.org/2001/XMLSchema#gYear>
10<https://github.com/ejurasek00/isv/#Impostor>	"2020"^^<http://www.w3.org/2001/XMLSchema#gYear>
11<https://github.com/ejurasek00/isv/#Soft_launch>	"2020"^^<http://www.w3.org/2001/XMLSchema#gYear>
12<https://github.com/ejurasek00/isv/#Ratio>	"2020"^^<http://www.w3.org/2001/XMLSchema#gYear>
13<https://github.com/ejurasek00/isv/#Bussin>	"2020"^^<http://www.w3.org/2001/XMLSchema#gYear>
14<https://github.com/ejurasek00/isv/#Main_Character_Energy>	"2020"^^<http://www.w3.org/2001/XMLSchema#gYear>
15<https://github.com/ejurasek00/isv/#Cheugy>	"2021"^^<http://www.w3.org/2001/XMLSchema#gYear>
16<https://github.com/ejurasek00/isv/#Rizz>	"2021"^^<http://www.w3.org/2001/XMLSchema#gYear>
17<https://github.com/ejurasek00/isv/#Bing_chilling>	"2021"^^<http://www.w3.org/2001/XMLSchema#gYear>
18<https://github.com/ejurasek00/isv/#Amogus>	"2021"^^<http://www.w3.org/2001/XMLSchema#gYear>
19<https://github.com/ejurasek00/isv/#Gatekeeper>	"2022"^^<http://www.w3.org/2001/XMLSchema#gYear>
20<https://github.com/ejurasek00/isv/#Fanum_Tax>	"2022"^^<http://www.w3.org/2001/XMLSchema#gYear>
21<https://github.com/ejurasek00/isv/#Gyatt>	"2022"^^<http://www.w3.org/2001/XMLSchema#gYear>
22<https://github.com/ejurasek00/isv/#Only_in_Ohio>	"2022"^^<http://www.w3.org/2001/XMLSchema#gYear>

/



23<<https://github.com/ejurasek00/isv/#smh>>"2022"^^<<http://www.w3.org/2001/XMLSchema#gYear>>

Showing 1 to 23 of 23 entries

<< < 1 > >>

Query 2 - Makers

In the second one one, I was interested in how many SlangTerms each maker has. Another words, I wanted to see the biggest makers first. For this, the query counted amount of occurances for each maker.

The query is listed below:

```
PREFIX isv: <https://github.com/ejurasek00/isv/#>
PREFIX skos: <http://www.w3.org/2004/02/skos/core#>
PREFIX foaf: <http://xmlns.com/foaf/0.1/>
PREFIX dcterms: <http://purl.org/dc/terms/>

SELECT ?maker (COUNT(?SlangTerm) AS ?amount)
WHERE {
    ?SlangTerm a isv:SlangTerm ;
               foaf:maker ?maker .
}
GROUP BY ?maker
ORDER BY DESC(?amount)
```

This query found 33 entries in 0.046 seconds.

The biggest SlangTerm maker is Twitter (11x), followed by TikTok (9x), Twitch (7x), SMS (7x), 4chan (5x) and the remaining ones.

SPARQL Endpoint: /isv/query | Content Type (SELECT): JSON | Content Type (GRAPH): Turtle

```
1 PREFIX isv: <https://github.com/ejurasek00/isv/#>
2 PREFIX skos: <http://www.w3.org/2004/02/skos/core#>
3 PREFIX foaf: <http://xmlns.com/foaf/0.1/>
4 PREFIX dcterms: <http://purl.org/dc/terms/>
5
6 SELECT ?maker (COUNT(?SlangTerm) AS ?amount)
7 WHERE {
8     ?SlangTerm a isv:SlangTerm ;
9               foaf:maker ?maker .
10 }
11 GROUP BY ?maker
12 ORDER BY DESC(?amount)
```

33 results in 0.046 seconds | Simple view | Ellipse | Filter query results | Page size: 50

maker	amount
1< <a href="http://dbpedia.org/resource/Twitter">http://dbpedia.org/resource/Twitter</a> >	"11"^^< <a href="http://www.w3.org/2001/XMLSchema#integer">http://www.w3.org/2001/XMLSchema#integer</a> >
2< <a href="http://dbpedia.org/resource/TikTok">http://dbpedia.org/resource/TikTok</a> >	"9"^^< <a href="http://www.w3.org/2001/XMLSchema#integer">http://www.w3.org/2001/XMLSchema#integer</a> >
3< <a href="http://dbpedia.org/resource/SMS">http://dbpedia.org/resource/SMS</a> >	"7"^^< <a href="http://www.w3.org/2001/XMLSchema#integer">http://www.w3.org/2001/XMLSchema#integer</a> >
4< <a href="http://dbpedia.org/resource/Twitch">http://dbpedia.org/resource/Twitch</a> >	"7"^^< <a href="http://www.w3.org/2001/XMLSchema#integer">http://www.w3.org/2001/XMLSchema#integer</a> >
5< <a href="http://dbpedia.org/resource/4chan">http://dbpedia.org/resource/4chan</a> >	"5"^^< <a href="http://www.w3.org/2001/XMLSchema#integer">http://www.w3.org/2001/XMLSchema#integer</a> >
6< <a href="http://dbpedia.org/resource/Among_Us">http://dbpedia.org/resource/Among_Us</a> >	"3"^^< <a href="http://www.w3.org/2001/XMLSchema#integer">http://www.w3.org/2001/XMLSchema#integer</a> >

7< <a href="http://dbpedia.org/resource/Anime_and_manga_fandom">http://dbpedia.org/resource/Anime_and_manga_fandom</a> >	"3"^^< <a href="http://www.w3.org/2001/XMLSchema#integer">http://www.w3.org/2001/XMLSchema#integer</a> >
8< <a href="http://dbpedia.org/resource/Bodybuilding">http://dbpedia.org/resource/Bodybuilding</a> >	"3"^^< <a href="http://www.w3.org/2001/XMLSchema#integer">http://www.w3.org/2001/XMLSchema#integer</a> >
9< <a href="http://dbpedia.org/resource/Instagram">http://dbpedia.org/resource/Instagram</a> >	"3"^^< <a href="http://www.w3.org/2001/XMLSchema#integer">http://www.w3.org/2001/XMLSchema#integer</a> >
10< <a href="http://dbpedia.org/resource/Online_gaming">http://dbpedia.org/resource/Online_gaming</a> >	"3"^^< <a href="http://www.w3.org/2001/XMLSchema#integer">http://www.w3.org/2001/XMLSchema#integer</a> >
11< <a href="http://dbpedia.org/resource/Reddit">http://dbpedia.org/resource/Reddit</a> >	"3"^^< <a href="http://www.w3.org/2001/XMLSchema#integer">http://www.w3.org/2001/XMLSchema#integer</a> >
12< <a href="http://dbpedia.org/resource/African-American_Vernacular_English">http://dbpedia.org/resource/African-American_Vernacular_English</a> >	"2"^^< <a href="http://www.w3.org/2001/XMLSchema#integer">http://www.w3.org/2001/XMLSchema#integer</a> >
13< <a href="http://dbpedia.org/resource/Furry_fandom">http://dbpedia.org/resource/Furry_fandom</a> >	"2"^^< <a href="http://www.w3.org/2001/XMLSchema#integer">http://www.w3.org/2001/XMLSchema#integer</a> >
14< <a href="http://dbpedia.org/resource/Instant_messaging">http://dbpedia.org/resource/Instant_messaging</a> >	"2"^^< <a href="http://www.w3.org/2001/XMLSchema#integer">http://www.w3.org/2001/XMLSchema#integer</a> >
15< <a href="http://dbpedia.org/resource/Vine_(service)">http://dbpedia.org/resource/Vine_(service)</a> >	"2"^^< <a href="http://www.w3.org/2001/XMLSchema#integer">http://www.w3.org/2001/XMLSchema#integer</a> >
16< <a href="http://dbpedia.org/resource/YouTube">http://dbpedia.org/resource/YouTube</a> >	"2"^^< <a href="http://www.w3.org/2001/XMLSchema#integer">http://www.w3.org/2001/XMLSchema#integer</a> >
17< <a href="http://dbpedia.org/resource/AOL">http://dbpedia.org/resource/AOL</a> >	"1"^^< <a href="http://www.w3.org/2001/XMLSchema#integer">http://www.w3.org/2001/XMLSchema#integer</a> >
18< <a href="http://dbpedia.org/resource/African-American_English">http://dbpedia.org/resource/African-American_English</a> >	"1"^^< <a href="http://www.w3.org/2001/XMLSchema#integer">http://www.w3.org/2001/XMLSchema#integer</a> >
19< <a href="http://dbpedia.org/resource/France">http://dbpedia.org/resource/France</a> >	"1"^^< <a href="http://www.w3.org/2001/XMLSchema#integer">http://www.w3.org/2001/XMLSchema#integer</a> >
20< <a href="http://dbpedia.org/resource/Gamer">http://dbpedia.org/resource/Gamer</a> >	"1"^^< <a href="http://www.w3.org/2001/XMLSchema#integer">http://www.w3.org/2001/XMLSchema#integer</a> >
21< <a href="http://dbpedia.org/resource/Gaming">http://dbpedia.org/resource/Gaming</a> >	"1"^^< <a href="http://www.w3.org/2001/XMLSchema#integer">http://www.w3.org/2001/XMLSchema#integer</a> >
22< <a href="http://dbpedia.org/resource/Grubhub">http://dbpedia.org/resource/Grubhub</a> >	"1"^^< <a href="http://www.w3.org/2001/XMLSchema#integer">http://www.w3.org/2001/XMLSchema#integer</a> >
23< <a href="http://dbpedia.org/resource/Internet_forums">http://dbpedia.org/resource/Internet_forums</a> >	"1"^^< <a href="http://www.w3.org/2001/XMLSchema#integer">http://www.w3.org/2001/XMLSchema#integer</a> >
24< <a href="http://dbpedia.org/resource/John_Cena">http://dbpedia.org/resource/John_Cena</a> >	"1"^^< <a href="http://www.w3.org/2001/XMLSchema#integer">http://www.w3.org/2001/XMLSchema#integer</a> >
25< <a href="http://dbpedia.org/resource/K-pop">http://dbpedia.org/resource/K-pop</a> >	"1"^^< <a href="http://www.w3.org/2001/XMLSchema#integer">http://www.w3.org/2001/XMLSchema#integer</a> >
26< <a href="http://dbpedia.org/resource/Karl_Kruszelnicki">http://dbpedia.org/resource/Karl_Kruszelnicki</a> >	"1"^^< <a href="http://www.w3.org/2001/XMLSchema#integer">http://www.w3.org/2001/XMLSchema#integer</a> >
27< <a href="http://dbpedia.org/resource/Punk_rock">http://dbpedia.org/resource/Punk_rock</a> >	"1"^^< <a href="http://www.w3.org/2001/XMLSchema#integer">http://www.w3.org/2001/XMLSchema#integer</a> >
28< <a href="http://dbpedia.org/resource/San_Rafael,_California">http://dbpedia.org/resource/San_Rafael,_California</a> >	"1"^^< <a href="http://www.w3.org/2001/XMLSchema#integer">http://www.w3.org/2001/XMLSchema#integer</a> >
29< <a href="http://dbpedia.org/resource/Star_Wars">http://dbpedia.org/resource/Star_Wars</a> >	"1"^^< <a href="http://www.w3.org/2001/XMLSchema#integer">http://www.w3.org/2001/XMLSchema#integer</a> >
30< <a href="http://dbpedia.org/resource/Tumblr">http://dbpedia.org/resource/Tumblr</a> >	"1"^^< <a href="http://www.w3.org/2001/XMLSchema#integer">http://www.w3.org/2001/XMLSchema#integer</a> >
31< <a href="http://dbpedia.org/resource/United_States">http://dbpedia.org/resource/United_States</a> >	"1"^^< <a href="http://www.w3.org/2001/XMLSchema#integer">http://www.w3.org/2001/XMLSchema#integer</a> >
32< <a href="http://dbpedia.org/resource/Usenet">http://dbpedia.org/resource/Usenet</a> >	"1"^^< <a href="http://www.w3.org/2001/XMLSchema#integer">http://www.w3.org/2001/XMLSchema#integer</a> >
33< <a href="http://dbpedia.org/resource/Vox_Day">http://dbpedia.org/resource/Vox_Day</a> >	"1"^^< <a href="http://www.w3.org/2001/XMLSchema#integer">http://www.w3.org/2001/XMLSchema#integer</a> >

# Related Wors

The project was inspired by a masters thesis of a friend of mine. Thank you so much, Jakub!

Riecky, J. (2025). Internet vernacular - a study of neologisms in online discourse of cybercultures [Masters Thehis, Univerzita sv. Cyrila a Metoda v Trnave FF UCM KAA]. Centrálny register záverečných a kvalifikačných prác OPAC CRZP. <https://opac.crzp.sk/?fn=detailBiblioFormChildM8GSN&sid=6F9F3F51667F0CBC3D41BFEE069E&seo=CRZP-detail-kniha>

# Remarks

Having any questions or suggestions on how to make this project better, do not hesitate to contact me via E-mail [jure01@vse.cz](mailto:jure01@vse.cz)