Venn Relation Define/Find

https://github.com/kellysolow/vennRelation

🗟 kellysol	ow / vennl	Relation			
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	kellysolow Create README.md		Clone HTTPS SSH GitHub CLI	?		
	📄 .idea	findrule	https://github.com/kellysolow/vennRelation			
	🖿 dump	findrule	Use Git or checkout with SVN using the web URL.			
	img	Initial commit				
	venv venv	Initial commit				
	🗅 README.md	Create README.md	Open with Visual Studio			
	🗅 addrule.py	exe + experiment version	👔 Download ZIP			

2. Download ZIP click





6. right-click – Unzip here

코드	코드 테스트 🗸						
^	이름	상태	수정한 날짜	유형	크기		
	vennRelation-master	g	2021-03-30 오전 3:23	파일 폴더			
	n vennRelation-master.zip	g	2021-04-03 오후 11:09	압축(ZIP) 파일	102,775KB		

7. When the unzipped folder is created as shown in the picture on the left , open the folder

	-	1.0	에는 신문지	211	27
코드	. 테스트 > vennRelation-master				~ ē
^	이름	상태	수정한 날짜	유형	크기
	idea	C	2021-03-30 오전 3:23	파일 폴더	
	dump	S	2021-03-30 오전 3:23	파일 폴더	
	📙 img	2	2021-03-30 오전 3:23	파일 폴더	
	venv	2	2021-03-30 오전 3:23	파일 폴더	
	📄 addrule.py	\odot	2021-03-30 오전 3:23	Python File	4KB
	🕞 addrule2.py	\odot	2021-03-30 오전 3:23	Python File	3KB
	🖬 entitiesCount.xlsx	\odot	2021-03-30 오전 3:23	Microsoft Excel	3,989KB
	🕞 findrule.py	\odot	2021-03-30 오전 3:23	Python File	14KB
	🚰 main.exe	S	2021-03-30 오전 3:23	응용 프로그램	35,427KB
	📴 main.py	Ø	2021-03-30 오전 3:23	Python File	1KB
	📴 mainUl.py	\odot	2021-03-30 오전 3:23	Python File	2KB
	📴 Readme (manual).pdf	e	2021-03-30 오전 3:23	Microsoft Edge P	371KB
	README.md	\odot	2021-03-30 오전 3:23	MD 파일	1KB
	📄 vennUl.py	\odot	2021-03-30 오전 3:23	Python File	3KB
	📴 사회교과서.pdf	C	2021-03-30 오전 3:23	Microsoft Edge P	440KB



8. Run main.exe among the files in the folder (When execution is blocked by a firewall additional Information-Allow)

9. Screen on successful execution

Purpose of the Program

- A new web standard called 'Semantic Web' aims at a machine-understood web.
- In order for the machine to understand, it is necessary to change the structure of the web from the document-centered to the data-centered.



A program that creates Semantic web-type data without the need for detailed understanding of the structure of the web.

Purpose of the Program-2

- Creating data in the 'Semantic web' way
- Subject-predicate-object is organized in the order, and this is called a triple.
- Ex) Shopping Mall- Product Apple

Fruit – Type – Apple

- When configuring the above relationship on the existing Semantic Web, the direct connection method must be configured differently according to the predicate.
- In this program, the relationship definition is completed by selecting the subject and object to define the relationship, and selecting a Venn diagram suitable for the relationship.

Trying to follow the program relationship definition

venn relation	-		\times
cubiact – pra	udicato -	- obio	ot
Subject - pre	Id rule	obje	
Exect	ute Query		

0. Determining subject and object to create relationship.(ex. fruit – fruitType – apple)

1. Click 'add rule'



2. Choosing a model that fits the subject and object relationship.

<inclusion model> Larger circle – subject Smaller circle – object

<partial overlapped model>
Left circle - subject
Colored part - object
Right circle - Object group corresponding to predicate

Apple is included in the fruit, so select 'Inclusion Model'

Trying to follow the program relationship definition -2



3. Create a relationship to be defined(subject predicate object)

Write fruit fruitType apple using only spaces except for '-'

Image: C:#Users#오술길#Desktop#vennRelation-master#main.exe	-	×
fruit fruitTypeDepth 0 apple fruitTypeDepth -1 relation defined		^
		~

4. Confirm that the relationship is defined in the console window that pops up together

Relations are added to the semantic web data dump.

Purpose of the Program -3

Search for the connection relationship of data defined in the 'Semantic Web' way ex) It is possible to check whether fruit and apple data are connected to each other
Ex) When there is a connection relationship 'Plant- subclass – fruit'
It is possible to confirm that several levels of relationships also can be connected like 'Plant – (subclass – fruit – type) - apple



Try relation search function -1

2021-03-24	ryulon nie	HNU
2021-03-24 오후 4:06	Python File	3KB
2021-03-24 오후 5:43	Microsoft Excel	3,989KB
2021-03-24 오후 4:06	Python File	10KB
2021-03-24 오후 4:06	응용 프로그램	35.429KB
	2021-03-24 오후 4:06 2021-03-24 오후 5:43 2021-03-24 오후 4:06 2021-03-24 오후 4:06	2021-03-24 오후 4:06 Python File 2021-03-24 오후 5:43 Microsoft Excel 2021-03-24 오후 4:06 Python File 2021-03-24 오후 4:06 응용 프로그램

1	United_States	20821
2	<http: _feature="" gml="" www.opengis.net=""></http:>	20669
3	0.0^^ <http: 2001="" www.w3.org="" xmlschema#double=""></http:>	16201
4	Central_Time_Zone_(North_America)	10492
5	Eastern_Time_Zone	6726
6	City	5830
7	Township_(United_States)	2820
8	Minnesota	2719
9	Census-designated_place	2510
10	2010^^ <http: 2001="" www.w3.org="" xmlschema#gyear=""></http:>	2293
11	Michigan	1902
12	Town	1730
13	Mountain_Time_Zone	1599
14	Illinois	1441
15	Central_European_Time	1423
16	Pacific_Time_Zone	1371
17	California	1359
18	258998.8110336^^ <http: 2001="" www.w3.org="" xmlschema#double=""></http:>	1090
19	Missouri	1049
20	lowa	1036
21	1.0^^ <http: 2001="" www.w3.org="" xmlschema#double=""></http:>	978
22	Florida	957

To search, open the entitiesCount.xlsx file that sorts the data in the current data dump by frequency of appearance.

2. Select two entities you want to check if the relationship exists on the web

(ex City, Town)

Try relation search function -2



depth 1 searching...

depth 2 searching...

3. Click 'execute query' button

4. Enter the depth and the two entities you want to check the relationship as shown in the picture on the left.

(ex. [entity1] [depth] [entity2])

(Difficult to perform search for too high depth(memory resource issue))

5. Search results are displayed in the console window

Program application

• You can also search for entities that you have defined yourself using the Venn diagram.



(result of 'fruit 2 apple')

- Searchable by mixing the defined entity and data dump(ex fruit 4 City)
- Relationships defined using this program utilize depth, so they can be searched faster than existing data from dumps.