

Experiment Results

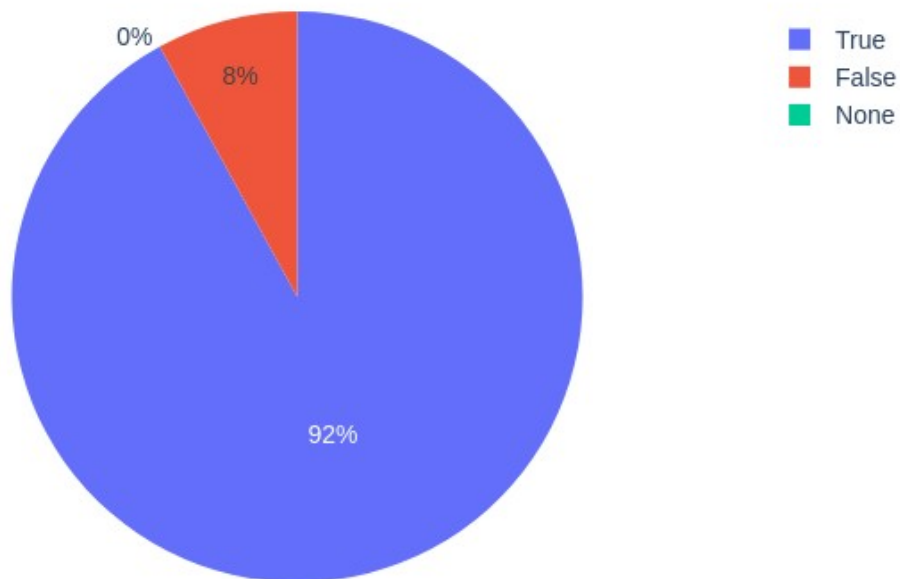
(rdfs:domain)

The table below shows the results when the ('rdfs:range') property value returned from ChatGPT for each tested concept ('Concept') was compared ('Comparison') with the value in the respective ontology. 'None' indicates that a value was not retrieved from ChatGPT

Range ('rdfs:domain') Results

Concept	ChatGPT Response	Comparison
rdfs:label	rdfs:Resource	True
rdfs:comment	rdfs:Resource	True
rdfs:domain	rdfs:Resource	True
rdfs:range	rdfs:Property	False
rdfs:subClassOf	rdfs:Class	True
skos:topConceptOf	skos:ConceptScheme	False
skos:semanticRelation	skos:Concept	True
skos:memberList	skos:Collection	True
skos:member	skos:Collection	True
skos:hasTopConcept	skos:ConceptScheme	True
foaf:name	foaf:Person	True
foaf:knows	foaf:Person	True
foaf:based_near	foaf:Agent	True
foaf:accountName	foaf:OnlineAccount	True
foaf:holdsAccount	foaf:Agent	True
prov:wasGeneratedBy	prov:Entity	True
prov:generatedAtTime	prov:Entity	True
prov:atLocation	prov:Entity	True
prov:hadMember	prov:Collection	True
prov:used	prov:Activity	True
rdf:first	rdf:List	True
rdf:type	rdfs:Resource	True
rdf:subject	rdf:Statement	True
rdf:value	rdf:Statement	True
rdf:rest	rdf:List	True

Figure 1: Occurences of each category of response ('True', 'False', 'None')



Summary of Results

Below is a summary of these results

Test Property	True Count	False Count	No Response Count
rdfs:domain	23	2	0

The table below shows the occurrences of each category for the tested ontologies.

Ontology Prefix	True Count	False Count	No Response Count
rdfs	4	1	0
skos	4	1	0
foaf	5	0	0
prov	5	0	0
rdf	5	0	0