## **Summary of Syntax Validity of Instance Graphs**

| Summary or Sym  | itax validity of instance draphs   | _               |   |
|-----------------|--|-----------------|---|
| Concept         | Code   | Valid<br>Syntax | Parser Output                                   |
| rdfs:Resource   | @prefix rdf: <a href="http://www.w3.org/1999/02/22-rdf-syntax-ns">http://www.w3.org/1999/02/22-rdf-syntax-ns"&gt;http://www.w3.org/1999/02/22-rdf-syntax-ns"&gt;http://www.w3.org/1999/02/22-rdf-syntax-ns"&gt;http://www.w3.org/1999/02/22-rdf-syntax-ns"&gt;http://www.w3.org/1999/02/22-rdf-syntax-ns"&gt;http://www.w3.org/1999/02/22-rdf-syntax-ns"&gt;http://www.w3.org/1999/02/22-rdf-syntax-ns"&gt;http://www.w3.org/1999/02/22-rdf-syntax-ns"&gt;http://www.w3.org/1999/02/22-rdf-syntax-ns"&gt;http://www.w3.org/2000/01/rdf-schema#&gt;http://www.w3.org/2000/01/</a> | True            | None  |
| 16 1 15 1       | rdf:Resource a rdfs:Class .  | +               |   |
| rdfs:Literal    | @prefix rdf: <a href="http://www.w3.org/1999/02/22-rdf-syntax-ns#">http://www.w3.org/1999/02/22-rdf-syntax-ns#</a> .  @prefix rdfs: <a href="http://www.w3.org/2000/01/rdf-schema#">http://www.w3.org/2000/01/rdf-schema#</a> .  | True            | None  |
|                 | <pre><http: example="" example.com=""> rdf:type rdfs:Literal ;</http:></pre>   |                 |   |
| rdfs:Class      | @prefix rdfs: <http: 01="" 2000="" rdf-schema#="" www.w3.org="">.</http:>  | True            | None  |
|                 | rdfs:Class a rdfs:Class ; rdfs:label 'A class' ;   |                 |   |
|                 | rdfs:comment 'This is an example of an RDFS class.' .  |                 |   |
| rdfs:Datatype   | @prefix rdf: <a href="http://www.w3.org/1999/02/22-rdf-syntax-ns#">http://www.w3.org/1999/02/22-rdf-syntax-ns#</a> .  @prefix rdfs: <a href="http://www.w3.org/2000/01/rdf-schema#">http://www.w3.org/2000/01/rdf-schema#</a> .  | True            | None  |
|                 | rdfs:Datatype rdf:type rdfs:Class .  |                 |   |
| rdfs:Container  | @prefix rdf: <a href="http://www.w3.org/1999/02/22-rdf-syntax-ns#">http://www.w3.org/1999/02/22-rdf-syntax-ns#</a> .  @prefix rdfs: <a href="http://www.w3.org/2000/01/rdf-schema#">http://www.w3.org/2000/01/rdf-schema#</a> .  | True            | None  |
|                 | <pre><http: example.org="" mycontainer=""> rdf:type rdfs:Container;</http:></pre>  |                 |   |
|                 | rdfs:label 'This is my container';<br>rdfs:member <a href="http://example.org/resource1">http://example.org/resource1</a> ,<br><a href="http://example.org/resource2">http://example.org/resource2</a> ;   |                 |   |
|                 |  |                 |   |
|                 | <a href="http://example.org/resource1">http://example.org/resource1</a> rdfs:label 'Resource 1';   |                 |   |
|                 | <a href="http://example.org/resource2">http://example.org/resource2</a> rdfs:label 'Resource 2';   |                 |   |
| rdfs:label      | @prefix rdf: <a href="http://www.w3.org/1999/02/22-rdf-syntax-ns#">http://www.w3.org/1999/02/22-rdf-syntax-ns#</a> .  @prefix rdfs: <a href="http://www.w3.org/2000/01/rdf-schema#">http://www.w3.org/1999/02/22-rdf-syntax-ns#</a> .  | True            | None  |
|                 | <a href="https://example.com/MyResource">https://example.com/MyResource</a> a rdf:Resource; rdfs:label 'My label'.   |                 |   |
| rdfs:comment    | @prefix rdfs: <a href="http://www.w3.org/2000/01/rdf-schema#">http://www.w3.org/2000/01/rdf-schema#</a> .  @prefix ex: <a href="http://www.example.org#">http://www.example.org#</a> .   | True            | None  |
|                 | ex:exampleResource rdfs:comment 'This is an example resource.'   |                 |   |
| rdfs:domain     | @prefix rdfs: <a href="http://www.w3.org/2000/01/rdf-schema#">http://www.w3.org/2000/01/rdf-schema#</a> >. @prefix ex: <a href="http://example.org/">http://example.org/</a> >.  | False           | at line 10 of <>:<br>Bad syntax (Prefix "rdf:"  |
|                 | ex:Person a rdfs:Class ;<br>rdfs:label 'Person'@en ;   |                 | not bound) at ^ in: "b'assOf ex:Animal ;\n      |
|                 | rdfs:comment 'A human being.'@en ;   |                 | rdfs:domain                                     |
|                 | rdfs:subClassOf ex:Animal ; rdfs:domain ex:hasName .   |                 | ex:hasName .\n\<br>nex:hasName a                |
|                 | ex:hasName a rdf:Property ;  |                 | '^b'rdf:Property ;\n<br>rdfs:domain             |
|                 | rdfs:domain ex:NamedEntity ; rdfs:range rdfs:Literal ; rdfs:label 'has name'@en ;  |                 | ex:NamedEntity ;\n<br>rdfs:range'"              |
|                 | rdfs:comment 'The name of something.'@en .   | 1               |   |
| rdfs:range      | @prefix ex: <a href="http://example.com/">@prefix foaf: <a href="http://example.com/">http://example.com/</a>&gt; @prefix foaf: <a href="http://www.w3.org/2000/01/rdf-schema#">http://www.w3.org/2000/01/rdf-schema#</a>&gt;.</a>   | False           | at line 9 of <>:<br>Bad syntax (Prefix "rdf:"   |
|                 | ex:Person a rdfs:Class ;   |                 | not bound) at ^ in: "b"bel 'Person' ;\n         |
|                 | rdfs:label 'Person';<br>rdfs:comment 'A human being.' .  |                 | rdfs:comment 'A human<br>being.' .\n\nex:name a |
|                 | ex:name a rdf:Property ;   |                 | "^b"rdf:Property ;\n<br>rdfs:label 'name' ;\n   |
|                 | rdfs:label 'name' ;<br>rdfs:comment 'The name of a person.' ;  |                 | rdfs:comment 'The nam""                         |
|                 | rdfs:domain ex:Person ; rdfs:range xsd:string .  |                 |   |
| rdfs:subClassOf | @prefix : <http: example.org=""></http:> .   | True            | None  |

|                        | :Animal rdfs:subClassOf :LivingThing .<br>:Bird rdfs:subClassOf :Animal .  |      |      |
|------------------------|--|------|------|
| alsos/Concent          | :Fish rdfs:subClassOf :Animal .  | T    | News |
| skos:Concept           | @prefix skos: <a href="http://www.w3.org/2004/02/skos/core#">http://example.com/&gt;. @prefix ex: <a href="http://example.com/">http://example.com/&gt;.</a></a>   | True | None |
|                        | ex:cat a skos:Concept ; skos:prefLabel 'Cat' ;   |      |      |
|                        | skos:altLabel 'Kitty' ;  |      |      |
|                        | skos:related ex:domesticAnimal;  |      |      |
|                        | skos:broader ex:mammal .   |      |      |
|                        | ex:dog a skos:Concept ; skos:prefLabel 'Dog' ;   |      |      |
|                        | skos:altLabel 'Puppy' ;  |      |      |
|                        | skos:related ex:domesticAnimal ;<br>skos:broader ex:mammal .   |      |      |
|                        | ex:mammal a skos:Concept ;   |      |      |
|                        | skos:prefLabel 'Mammal' ;<br>skos:altLabel 'Animal' ;  |      |      |
|                        | skos:related ex:vertebrate ;   |      |      |
|                        | skos:narrower ex:cat;<br>skos:narrower ex:dog.   |      |      |
|                        |  |      |      |
|                        | ex:domesticAnimal a skos:Concept ; skos:prefLabel 'Domestic animal' ;  |      |      |
|                        | skos:altLabel 'Pet' ;  |      |      |
|                        | skos:related ex:animal ;<br>skos:broader ex:animal .   |      |      |
|                        | ex:animal a skos:Concept;  |      |      |
|                        | skos:prefLabel 'Animal' ;<br>skos:altLabel 'Creature' ;  |      |      |
|                        | skos:related ex:nature .   |      |      |
|                        | ex:vertebrate a skos:Concept ;   |      |      |
|                        | skos:prefLabel 'Vertebrate' ; skos:altLabel 'Animal with backbone' ;   |      |      |
|                        | skos:related ex:animal;  |      |      |
| skos:Collection        | skos:broader ex:animal .  @prefix rdf: <a href="http://www.w3.org/1999/02/22-rdf-syntax-ns#">http://www.w3.org/1999/02/22-rdf-syntax-ns#</a> .   | Ture | Name |
| SKOS.COIIECTION        | @prefix skos: <a href="http://www.w3.org/2004/02/skos/core#">http://www.w3.org/2004/02/skos/core#</a> .  | True | None |
|                        | <a href="http://example.com/myCollection">http://example.com/myCollection</a> ;  |      |      |
|                        | skos:prefLabel 'My Collection'@en;<br>skos:member <a href="http://example.com/myConcept1">http://example.com/myConcept1</a> ,  |      |      |
|                        | <a href="http://example.com/myConcept2">http://example.com/myConcept2&gt;.</a>   |      |      |
| skos:ConceptScheme     | @prefix rdf: <a href="http://www.w3.org/1999/02/22-rdf-syntax-ns#">http://www.w3.org/1999/02/22-rdf-syntax-ns#&gt;.</a>  | True | None |
|                        | @prefix skos: <a href="http://www.w3.org/2004/02/skos/core#">http://www.w3.org/2004/02/skos/core#&gt;. @prefix ex: <a href="http://example.com/">http://example.com/&gt;.</a></a>  |      |      |
|                        | ex:myScheme a skos:ConceptScheme ;   |      |      |
|                        | skos:prefLabel 'My SKOS Concept Scheme';<br>skos:definition 'An example SKOS concept scheme';  |      |      |
|                        | skos:hasTopConcept ex:myTopConcept;  |      |      |
|                        | skos:hasTopConcept ex:anotherTopConcept .  |      |      |
|                        | ex:myTopConcept a skos:Concept;  |      |      |
|                        | skos:prefLabel 'My Top Concept';<br>skos:definition 'An example top-level concept in my SKOS   |      |      |
|                        | concept scheme' .  |      |      |
|                        | ex:anotherTopConcept a skos:Concept;   |      |      |
|                        | skos:prefLabel 'Another Top Concept';  |      |      |
|                        | skos:definition 'Another example top-level concept in my SKOS concept scheme' .  |      |      |
| skos:OrderedCollection | @prefix skos: <a href="http://www.w3.org/2004/02/skos/core#">http://www.w3.org/2004/02/skos/core#</a> > . @prefix rdf: <a href="http://www.w3.org/1999/02/22-rdf-syntax-ns#">http://www.w3.org/1999/02/22-rdf-syntax-ns#</a> > . | True | None |
|                        |  |      |      |
|                        | skos:myOrderedCollection rdf:type skos:OrderedCollection;<br>skos:member skos:concept1, skos:concept2,<br>skos:concept3.   |      |      |
|                        | skos:concept1 rdf:type skos:Concept ;  |      |      |
|                        | skos:prefLabel 'Concept 1' .   |      |      |
|                        | skos:concept2 rdf:type skos:Concept;<br>skos:prefLabel 'Concept 2' .   |      |      |

|                          | skos:concept3 rdf:type skos:Concept;<br>skos:prefLabel 'Concept 3'.   |       |  |
|--------------------------|---|-------|--|
| skos:CollectableProperty | @prefix rdf: <a href="http://www.w3.org/1999/02/22-rdf-syntax-ns#">http://www.w3.org/1999/02/22-rdf-syntax-ns#</a> >.  @prefix skos: <a href="http://www.w3.org/2004/02/skos/core#">http://www.w3.org/2004/02/skos/core#</a> >.  skos:CollectableProperty a rdf:Class; rdf:label 'Collectable Property'@en; rdf:comment 'A concept property that can be used to group:  - concepts that may be collected (e.g. specimens);  - concepts that are documented separately (e.g. manuscripts);   | False | at line 6 of <>: Bad syntax (newline found in string literal) at ^ in: "b" rdf:comment 'A concept property that can be used to group:"^b'\n\n-concepts that may be collected (e.g. specimens);\n\n- conc'" |
| skos:topConceptOf        | - concepts that have a separate existence (e.g. coins). "@en .  @prefix skos: <a href="http://www.w3.org/2004/02/skos/core#">http://www.w3.org/2004/02/skos/core#</a> .  @prefix ex: <a href="http://example.com/">http://example.com/</a> .  ex:myConcept a skos:Concept; skos:topConceptOf ex:myScheme .  | True  | None   |
| skos:semanticRelation    | ex:myScheme a skos:ConceptScheme .  @prefix rdf: <a href="http://www.w3.org/1999/02/22-rdf-syntax-ns#">http://www.w3.org/1999/02/22-rdf-syntax-ns#</a> .  @prefix skos: <a href="http://www.w3.org/2004/02/skos/core#">http://www.w3.org/2004/02/skos/core#</a> .  @prefix ex: <a href="http://example.org/">http://example.org/</a> .  ex:term1 skos:semanticRelation ex:term2 .   | True  | None   |
| skos:memberList          | @prefix skos: <a href="http://www.w3.org/2004/02/skos/core#">http://www.w3.org/2004/02/skos/core#</a> .  @prefix ex: <a href="http://example.org/">http://example.org/</a> .  ex:myList a skos:Concept; skos:prefLabel 'My List'; skos:memberList (   | True  | None   |
| skos:member              | @prefix skos: <a href="http://www.w3.org/2004/02/skos/core#">. @prefix skos: <a href="http://www.w3.org/2004/o2/skos/core#">. @prefix skos: <a 02="" 1999="" 22-rdf-syntax-ns#"="" href="http://&lt;/td&gt;&lt;td&gt;True&lt;/td&gt;&lt;td&gt;None&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;skos:hasTopConcept&lt;/td&gt;&lt;td&gt;@prefix rdf: &lt;a href=" http:="" www.w3.org="">.</a> @prefix skos: <a href="http://www.w3.org/2004/02/skos/core#">.</a> <a href="http://example.org/my-vocabulary">http://example.org/my-vocabulary</a> rdf:type skos:Concept <a href="http://example.org/my-vocabulary#Foo">http://example.org/my-vocabulary#Foo</a> ; skos:hasTopConcept <a href="http://example.org/my-vocabulary#Bar">http://example.org/my-vocabulary#Bar</a> <a href="http://example.org/my-vocabulary#Foo">http://example.org/my-vocabulary#Foo</a> rdf:type skos:Concept ; skos:prefLabel 'Foo'@en . <a href="http://example.org/my-vocabulary#Bar">http://example.org/my-vocabulary#Bar</a> rdf:type skos:Concept ;</a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a> | True  | None   |
| foaf:Agent               | skos:prefLabel 'Bar'@en .  @prefix rdf: <a href="http://www.w3.org/1999/02/22-rdf-syntax-ns#">http://www.w3.org/1999/02/22-rdf-syntax-ns#</a> >.  @prefix foaf: <a href="http://xmlns.com/foaf/0.1/">http://xmlns.com/foaf/0.1/</a> >.  | True  | None   |

| foaf:Person        | @prefix foaf: <a href="http://xmlns.com/foaf/0.1/">http://xmlns.com/foaf/0.1/"&gt;.</a>  | T        | Nana                                 |
|--------------------|--|----------|--------------------------------------|
| ioai.Peison        | @prefix foat. <a href="http://xffilins.com/foat/o.1/">http://xffilins.com/foat/o.1/"&gt;http://xffilins.com/foat/o.1/"&gt;http://xffilins.com/foat/o.1/"&gt;http://xffilins.com/foat/o.1/"&gt;http://xffilins.com/foat/o.1/"&gt;http://xffilins.com/foat/o.1/"&gt;http://xffilins.com/foat/o.1/"&gt;http://xffilins.com/foat/o.1/"&gt;http://xffilins.com/foat/o.1/</a>  | True     | None                                 |
|                    | <a href="http://example.com/person/Jane">http://example.com/person/Jane&gt;</a>  |          |                                      |
|                    | a foaf:Person ;  |          |                                      |
|                    | foaf:name 'Jane Doe' ;<br>foaf:age 35 ;  |          |                                      |
|                    | foaf:gender 'female' .   |          |                                      |
|                    | <a href="http://example.com/person/John">http://example.com/person/John&gt;</a>  |          |                                      |
|                    | a foaf:Person ;  |          |                                      |
|                    | foaf:name 'John Smith' ;   |          |                                      |
|                    | foaf:age 42 ;  |          |                                      |
| foaf:Document      | foaf:gender 'male' .  @prefix foaf: <a href="http://xmlns.com/foaf/0.1/">http://xmlns.com/foaf/0.1/&gt; .</a>  | Truo     | None                                 |
| ioai.Document      | @prefix rdf: <http: 02="" 1999="" 22-rdf-syntax-ns#="" www.w3.org=""> .</http:>  | True     | None                                 |
|                    | for CP and a state of the same of Colors   |          |                                      |
| foaf:Group         | foaf:Document rdf:type rdf:Class .  @prefix foaf: <a href="http://xmlns.com/foaf/0.1/">http://xmlns.com/foaf/0.1/&gt; .</a>  | True     | None                                 |
| loai.Oroup         | wprenz toat. Thtp://xhiins.com/toai/o.1/2.   | True     | None                                 |
|                    | <a href="http://example.com/my-group">http://example.com/my-group</a>  |          |                                      |
|                    | a foaf:Group ;   |          |                                      |
|                    | foaf:name 'My Group' ;<br>foaf:member <a href="http://example.com/john-doe">http://example.com/john-doe</a> ,  |          |                                      |
|                    | <a href="http://example.com/jane-doe">http://example.com/jane-doe</a> ;  |          |                                      |
|                    | foaf:homepage <http: example.com="" my-group-page=""></http:>  |          |                                      |
| foaf:OnlineAccount | @prefix rdf: <http: 02="" 1999="" 22-rdf-syntax-ns#="" www.w3.org=""> .</http:>  | False    | at line 7 of <>:                     |
|                    | @prefix foaf: <a href="http://xmlns.com/foaf/0.1/">http://xmlns.com/foaf/0.1/"&gt;.</a>  |          | Bad syntax (Prefix "rdfs:"           |
|                    | foaf:AccountOwner a rdf:Class .  |          | not bound) at ^ in:                  |
|                    | loan looding wild a rui. Glass .   |          | "b'ntOwner a                         |
|                    | foaf:OnlineAccount a rdf:Class ;   |          | rdf:Class .\n\                       |
|                    | rdfs:subClassOf foaf:OnlineChatAccount .   |          | nfoaf:OnlineAccount a                |
|                    | foaf:account a rdf:Property ;  |          | rdf:Class ;\n<br>'^b'rdfs:subClassOf |
|                    | rdfs:domain foaf:AccountOwner;   |          | foaf:OnlineChatAccount .\            |
|                    | rdfs:range foaf:OnlineAccount .  |          | n\nfoaf:account a rdf'"              |
|                    |  |          | Transanassount a rai                 |
|                    | foaf:homepage a rdf:Property ; rdfs:domain foaf:OnlineAccount ;  |          |                                      |
|                    | rdfs:range rdfs:Resource .   |          |                                      |
|                    | Talonango raion rossaros r   |          |                                      |
|                    | foaf:accountName a rdf:Property;   |          |                                      |
|                    | rdfs:domain foaf:OnlineAccount;  |          |                                      |
|                    | rdfs:range xsd:string .  |          |                                      |
|                    | foaf:accountServiceHomepage a rdf:Property;  |          |                                      |
|                    | rdfs:domain foaf:OnlineAccount ;   |          |                                      |
|                    | rdfs:range rdfs:Resource .   |          |                                      |
| foaf:name          | @prefix foaf: <http: 0.1="" foaf="" xmlns.com=""></http:> .  | True     | None                                 |
|                    | <a href="http://example.org/person1">http://example.org/person1</a>  |          |                                      |
|                    | foaf:name 'John Doe' .   |          |                                      |
| foaf:knows         | @prefix rdf: <http: 02="" 1999="" 22-rdf-syntax-ns#="" www.w3.org=""> .</http:>  | True     | None                                 |
|                    | @prefix foaf: <http: 0.1="" foaf="" xmlns.com=""></http:> .  |          |                                      |
|                    | <a href="http://example.org/person1">http://example.org/person1</a> > a foaf:Person ;  |          |                                      |
|                    | foaf:name 'John Doe' ;   |          |                                      |
|                    | foaf:knows <a href="http://example.org/person2">http://example.org/person2</a> > .   |          |                                      |
|                    | <a href="http://example.org/person2">http://example.org/person2</a> a foaf:Person ;  |          |                                      |
|                    | foaf:name 'Jane Smith' .   |          |                                      |
| foaf:based_near    | @prefix foaf: <a href="http://xmlns.com/foaf/0.1/">http://xmlns.com/foaf/0.1/"&gt;. @prefix geo:</a>   | True     | None                                 |
|                    | <a href="http://www.w3.org/2003/01/geo/wgs84_pos#">http://www.w3.org/2003/01/geo/wgs84_pos#</a> .  |          |                                      |
|                    |  |          |                                      |
|                    | <a href="http://example.org/person1">http://example.org/person1</a>  |          |                                      |
|                    | foaf:name 'John Doe' ; foaf:based_near [   |          |                                      |
|                    | geo:lat '37.7749' ;  |          |                                      |
|                    | geo:long '-122.4194'   |          |                                      |
| foofiooocustNls    | Opening foods whether the complete and t | <b>T</b> | None                                 |
| foaf:accountName   | <pre>@prefix foaf: <http: 0.1="" foaf="" xmlns.com=""></http:> . @prefix ex: <http: example.org=""></http:> .</pre>  | True     | None                                 |
|                    | G p. San On. Antiparonampiology  |          |                                      |
|                    | ex:person1 foaf:name 'John Doe' ;  |          |                                      |
| foof:holds ^ sas:  | foaf:accountName 'johndoe' .   | T        | None                                 |
| foaf:holdsAccount  | @prefix rdf: <a href="http://www.w3.org/1999/02/22-rdf-syntax-ns#">http://www.w3.org/1999/02/22-rdf-syntax-ns#</a>   | True     | None                                 |
|                    | @prefix foaf: <http: 0.1="" foaf="" xmlns.com=""></http:> .  |          |                                      |
|                    |  |          |                                      |

|                 | @avefix over shttp://overpale.org/s  |       |  |
|-----------------|--|-------|--|
|                 | @prefix ex: <http: example.org=""></http:> .   |       |  |
|                 | ex:person1 foaf:holdsAccount [     rdf:type  |       |  |
| prov:Agent      | @prefix prov: <a href="http://www.w3.org/ns/prov#">http://www.w3.org/ns/prov#&gt;. @prefix ex: <a href="http://www.example.com/">http://www.example.com/&gt;.</a></a>  | True  | None   |
|                 | ex:person1 a prov:Agent; prov:name 'John Doe'; prov:hadActivity ex:activity1.  ex:activity1 a prov:Activity;   |       |  |
| prov:Activity   | prov:wasAssociatedWith ex:person1 .  @prefix prov: <a href="http://www.w3.org/ns/prov#">http://www.w3.org/ns/prov#</a> .   | False | at line 6 of <>:   |
| prov.Activity   | <pre><http: activity1="" example.org="">   a prov:Activity;   prov:label 'Activity 1';   prov:startTime '2021-01-01T00:00:00Z'^^xsd:dateTime;   prov:endTime '2021-01-01T01:00:00Z'^^xsd:dateTime.</http:></pre>   | raise | Bad syntax (Prefix "xsd:" not bound) at ^ in: "b"bel 'Activity 1' ;\n prov:startTime '2021-01- 01T00:00:00Z'^^\b"xsd:d ateTime ;\n prov:endTime '2021-01- 01T01:00:00Z'^^xsd:da"                   |
| prov:Entity     | @prefix prov: <a href="http://www.w3.org/ns/prov#">http://www.w3.org/ns/prov#&gt; . @prefix ex: <a href="http://example.com/">http://example.com/&gt; .</a></a>  | True  | None   |
|                 | ex:entity1 a prov:Entity;<br>prov:wasDerivedFrom ex:data1;<br>prov:wasGeneratedBy ex:process1.   |       |  |
| prov:Collection | <pre>@prefix prov: <a href="http://www.w3.org/ns/prov#"> @prefix ex: <a href="http://example.com/"> ex:collection1 a prov:Collection; rdfs:label 'My Collection'@en; prov:hadMember ex:item1, ex:item2, ex:item3; prov:wasGeneratedBy ex:process1; prov:wasDerivedFrom ex:sourceDataset;  ex:item1 a prov:Entity; rdfs:label 'Item 1'@en; prov:wasGeneratedBy ex:process1;  ex:item2 a prov:Entity; rdfs:label 'Item 2'@en; prov:wasGeneratedBy ex:process1;  ex:item3 a prov:Entity; rdfs:label 'Item 3'@en; prov:wasGeneratedBy ex:process1;  ex:process1 a prov:Activity; rdfs:label 'My Process'@en; prov:used ex:inputDataset .  ex:inputDataset a prov:Entity; rdfs:label 'Input Dataset'@en .  ex:sourceDataset a prov:Entity; rdfs:label 'Source Dataset'@en; prov:wasGeneratedBy ex:sourceProcess .  ex:sourceProcess a prov:Activity; rdfs:label 'Source Process'@en; rdfs:label 'Source Process'@en; </a></a></pre> | False | at line 5 of <>: Bad syntax (Prefix "rdfs:" not bound) at ^ in: "b'ttp://example.com/> . \n\nex:collection1 a prov:Collection;\n '^b'rdfs:label 'My Collection'@en;\n prov:hadMember ex:item1, e"" |
|                 | prov:used ex:rawData .  ex:rawData a prov:Entity ; rdfs:label 'Raw Data'@en .  |       |  |
| prov:Location   | @prefix prov: <a href="http://www.w3.org/ns/prov#">http://www.w3.org/ns/prov#&gt; . @prefix ex: <a href="http://example.com/">http://example.com/&gt; .</a></a>  | True  | None   |

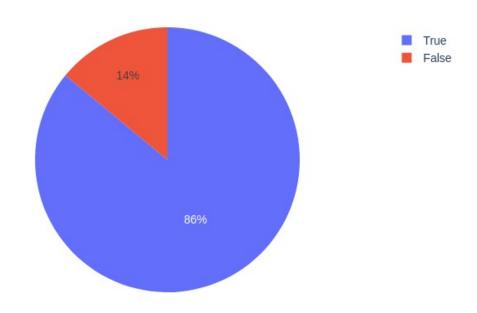
|                       | ex:location1 a prov:Location;   |               |      |
|-----------------------|---|---------------|------|
|                       | prov:atLocation 'New York' .  | <del>  </del> | 1    |
| prov:wasGeneratedBy   | @prefix rdf: <a href="http://www.w3.org/1999/02/22-rdf-syntax-ns#">http://www.w3.org/1999/02/22-rdf-syntax-ns#</a> .  @prefix prov: <a href="http://www.w3.org/ns/prov#">http://www.w3.org/ns/prov#</a> . | True          | None |
|                       | <a href="http://example.org/document">http://example.org/document</a> prov:wasGeneratedBy <a href="http://example.org/tool">http://example.org/tool</a> .   |               |      |
|                       | <pre><http: example.org="" tool=""> rdf:type prov:Software ; prov:wasAttributedTo <http: developer="" example.org=""> .</http:></http:></pre>   |               |      |
| prov:generatedAtTime  | @prefix rdf: <a href="http://www.w3.org/1999/02/22-rdf-syntax-ns#">http://www.w3.org/1999/02/22-rdf-syntax-ns#</a> .  | True          | None |
| provigencialed, trime | @prefix prov: <a href="http://www.w3.org/ns/prov#">http://www.w3.org/ns/prov#&gt; . @prefix xsd: <a href="http://www.w3.org/2001/XMLSchema#">http://www.w3.org/2001/XMLSchema#</a> .</a>                  | Truc          | None |
|                       | <pre><http: document="" example.com=""> rdf:type prov:Entity; prov:generatedAtTime '2021-08-</http:></pre>  |               |      |
|                       | 10T12:00:00Z'^^xsd:dateTime .   |               |      |
| prov:atLocation       | @prefix prov: <a href="http://www.w3.org/ns/prov#">http://www.w3.org/ns/prov#&gt; . @prefix ex: <a href="http://example.org/">http://example.org/&gt; .</a></a>   | True          | None |
|                       | ex:entity1  |               |      |
|                       | a prov:Entity ;<br>prov:atLocation ex:location1 .   |               |      |
|                       | ex:location1  |               |      |
|                       | a prov:Location ;   |               |      |
|                       | prov:latitude '51.5072' ;<br>prov:longitude '-0.1276' .   |               |      |
| prov:hadMember        | @prefix rdf: <a href="http://www.w3.org/1999/02/22-rdf-syntax-ns#">http://www.w3.org/1999/02/22-rdf-syntax-ns#</a> .  | True          | None |
|                       | @prefix prov: <a href="http://www.w3.org/ns/prov#">http://www.w3.org/ns/prov#&gt; . @prefix ex: <a href="http://example.org/">http://example.org/&gt; .</a></a>   |               |      |
|                       | ex:Collection1 a prov:Collection;   |               |      |
|                       | prov:hadMember ex:Entity1;  |               |      |
|                       | prov:hadMember ex:Entity2 ; prov:hadMember ex:Entity3 .   |               |      |
| prov:used             | @prefix prov: <a href="http://www.w3.org/ns/prov#">http://www.w3.org/ns/prov#&gt;.</a>  | True          | None |
|                       | <a href="http://example.com/activity/123">http://example.com/activity/123</a> a prov:Activity; prov:used <a href="http://example.com/resource/456">http://example.com/activity/123</a> a prov:Activity;   |               |      |
|                       | <a href="http://example.com/resource/456">http://example.com/resource/456</a> a prov:Entity .   |               |      |
| rdf:List              | @prefix rdf: <a href="http://www.w3.org/1999/02/22-rdf-syntax-ns#">http://www.w3.org/1999/02/22-rdf-syntax-ns#</a> >. @prefix ex: <a href="http://example.com/">http://example.com/</a> >.                | True          | None |
|                       | ex:myList rdf:type rdf:List;<br>rdf:first 'apple';  |               |      |
|                       | rdf:rest [  |               |      |
|                       | rdf:first 'banana';<br>rdf:rest [   |               |      |
|                       | rdf:first 'cherry';   |               |      |
|                       | rdf:rest rdf:nil  |               |      |
|                       | ] ]   |               |      |
| rdf:Bag               | @prefix rdf: <a href="http://www.w3.org/1999/02/22-rdf-syntax-ns#">http://www.w3.org/1999/02/22-rdf-syntax-ns#</a> .  @prefix ex: <a href="http://example.com/ns#">http://example.com/ns#</a> .           | True          | None |
|                       | ex:Collection rdf:type rdf:Bag ;  |               |      |
|                       | rdf:_1 ex:ltem1 ;   |               |      |
|                       | rdf:_2 ex:ltem2 ;<br>rdf: 3 ex:ltem3 ;  |               |      |
|                       | rdf: 4 ex:ltem4 .   |               |      |
| rdf:Statement         | @prefix rdf: <a href="http://www.w3.org/1999/02/22-rdf-syntax-ns#">http://example.com/&gt;.</a>   | True          | None |
|                       | ex:subject1 ex:predicate1 ex:object1 . ex:subject2 ex:predicate2 ex:object2 .   |               |      |
|                       | ex:statement1 a rdf:Statement ;   |               |      |
|                       | rdf:subject ex:subject1;  |               |      |
|                       | rdf:predicate ex:predicate1 ; rdf:object ex:object1 .   |               |      |
|                       | aviatatament? a rdf:Ctatament :   | 1             |      |
|                       | ex:statement2 a rdf:Statement ;   |               |      |
|                       | ex.statement2 a rdr.statement ,<br>rdf:subject ex:subject2 ;<br>rdf:predicate ex:predicate2 ;   |               |      |

| rdf:Property | @prefix rdf: <http: 02="" 1999="" 22-rdf-syntax-ns#="" www.w3.org="">.</http:>  | False  | at line 7 of <>:              |
|--------------|---|--------|-------------------------------|
|              |   | 1 4100 | Bad syntax (Prefix "rdfs:"    |
|              | # Define a custom property  |        | not bound) at ^ in:           |
|              | @prefix ex: <http: example.org=""></http:> .  |        | "b'://example.org/> .\n\      |
|              |   |        |                               |
|              | ex:hasColor rdf:type rdf:Property ;   |        | nex:hasColor rdf:type         |
|              | rdfs:label 'has color' ;  |        | rdf:Property ;\n              |
|              | rdfs:comment 'Relates an object to its color'   |        | '^b"rdfs:label 'has color' ;\ |
|              | •   |        | n rdfs:comment                |
|              |   |        | 'Relates an object""          |
| rdf:HTML     | @prefix rdf: <http: 02="" 1999="" 22-rdf-syntax-ns#="" www.w3.org=""> .</http:>   | True   | None                          |
|              | @prefix ex: <http: example.org=""></http:> .  | Truc   | None                          |
|              | g pronx ex. shap, rexample.org r  |        |                               |
|              | ex:myWebpage rdf:type rdf:HTML .  |        |                               |
| rdf:first    | @prefix rdf: <http: 02="" 1999="" 22-rdf-syntax-ns#="" www.w3.org=""> .</http:>   | True   | None                          |
|              | @prefix ex: <http: example.org=""></http:> .  |        |                               |
|              |   |        |                               |
|              | ex:myList rdf:type rdf:List ;   |        |                               |
|              | rdf:first 'apple' ;   |        |                               |
|              | rdf:rest _:b0 .   |        |                               |
|              | JeO malest are a malest link .  |        |                               |
|              | _:b0 rdf:type rdf:List ;<br>rdf:first 'banana' ;  |        |                               |
|              |   |        |                               |
|              | rdf:rest _:b1 .   |        |                               |
|              | _:b1 rdf:type rdf:List ;  |        |                               |
|              | rdf:first 'cherry' ;  |        |                               |
|              | rdf:rest rdf:nil .  |        |                               |
| rdf:type     | @prefix rdf: <http: 02="" 1999="" 22-rdf-syntax-ns#="" www.w3.org=""> .</http:>   | True   | None                          |
| rantype      | @prefix foaf: <a href="http://xmlns.com/foaf/0.1/">http://xmlns.com/foaf/0.1/&gt; .</a>   | Tiue   | None                          |
|              | Sprenz rodi. 4ntp://xmmo.com/rodi/o.2/  |        |                               |
|              | <a href="http://example.org/person1">http://example.org/person1</a> rdf:type foaf:Person .  |        |                               |
|              | <a href="http://example.org/person1">http://example.org/person1</a> foaf:name 'John Doe' .  |        |                               |
| rdf:subject  | @prefix rdf: <http: 02="" 1999="" 22-rdf-syntax-ns#="" www.w3.org=""> .</http:>   | True   | None                          |
| ,            | Gp  | 1140   | Trone                         |
|              | <a href="http://example.org/myresource">http://example.org/myresource&gt;</a>   |        |                               |
|              | rdf:subject <a href="http://example.org/mysubject">rdf:subject <a href="http://example.org/mysubject">http://example.org/mysubject</a>.</a> |        |                               |
| rdf:value    | @prefix rdf: <a href="http://www.w3.org/1999/02/22-rdf-syntax-ns#">http://www.w3.org/1999/02/22-rdf-syntax-ns#</a> .                        | True   | None                          |
|              |   |        |                               |
|              | <a href="http://example.org/resource1">http://example.org/resource1</a>   |        |                               |
|              | rdf:value 'example'   |        |                               |
|              |   |        |                               |
|              | dhttp://oversale.com/recessure25  |        |                               |
|              | <a href="http://example.org/resource2">http://example.org/resource2</a>   |        |                               |
|              | rdf:value 42  |        |                               |
| rdf:rest     | @prefix rdf: <http: 02="" 1999="" 22-rdf-syntax-ns#="" www.w3.org=""> .</http:>   | True   | None                          |
| 141.1631     | @ρισικται. \\(\text{rui.}\) \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\   | liue   | INOTIE                        |
|              | rdf:nil rdf:rest rdf:nil .  |        |                               |

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

| Ontology Prefix | True Count | False Count | No Response Count |
|-----------------|------------|-------------|-------------------|
| rdfs            | 8          | 2           | 0                 |
| skos            | 9          | 1           | 0                 |
| foaf            | 9          | 1           | 0                 |
| prov            | 8          | 2           | 0                 |
| rdf             | 9          | 1           | 0                 |

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



The table below shows an overview of the results for each category of tested code.

| Code Category   | True Count | False Count | No Response Count |
|-----------------|------------|-------------|-------------------|
| Instance Graphs | 43         | 7           | 0                 |
| Shacl Shapes    | 46         | 4           | 0                 |
| Sparql Queries  | 43         | 7           | 0                 |