Summary of Syntax Validity of Instance Graphs

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

	1		
	:Animal rdfs:subClassOf :LivingThing .		
	:Bird rdfs:subClassOf :Animal .		
	:Fish rdfs:subClassOf :Animal .		
skos:Concept	@prefix skos: http://www.w3.org/2004/02/skos/core#>.	True	None
	@prefix ex: <http: example.com=""></http:> .	110.0	
	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;		
	skos:broader ex:mammal .		
	ex:mammal a skos:Concept;		
	skos:prefLabel 'Mammal' ;		
	skos:altLabel 'Animal' ; skos:related ex:vertebrate ;		
	skos:narrower ex:cat ;		
	skos:narrower exident,		
	ex:domesticAnimal a skos:Concept ;		
	skos:prefLabel 'Domestic animal' ;		
	skos:altLabel 'Pet';		
	skos:related ex:animal ; skos:broader ex:animal .		
	Skos.broader ex.ariiriar .		
	ex:animal a skos:Concept ;		
	skos:prefLabel 'Animal' ;		
	skos:altLabel 'Creature' ;		
	skos:related ex:nature .		
	avuvertahreta a aksasiCanaant i		
	ex:vertebrate a skos:Concept; skos:prefLabel 'Vertebrate';		
	skos:altLabel 'Animal with backbone';		
	skos:related ex:animal ;		
	skos:broader ex:animal .		
skos:Collection	@prefix rdf: <http: 02="" 1999="" 22-rdf-syntax-ns#="" www.w3.org=""> .</http:>	True	None
	@prefix skos: http://www.w3.org/2004/02/skos/core#>.		
	http://example.com/myCollection a skos:Collection;		
	skos:prefLabel 'My Collection'@en;		
	skos:member skos:member http://example.com/myConcept1,		
	http://example.com/myConcept2>.		
skos:ConceptScheme	@prefix rdf: <http: 02="" 1999="" 22-rdf-syntax-ns#="" www.w3.org=""> .</http:>	True	None
	@prefix skos: http://www.w3.org/2004/02/skos/core#>.		
	@prefix ex: <http: example.com=""></http:> .		
	ex:myScheme a skos:ConceptScheme ;		
	skos:prefLabel 'My SKOS Concept Scheme';		
	skos:definition 'An example SKOS concept scheme';		
	skos:hasTopConcept ex:myTopConcept;		
	skos:hasTopConcept ex:anotherTopConcept .		
	Tan Canada a disay Canada		
	ex:myTopConcept a skos:Concept; skos:prefLabel 'My Top Concept';		
	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: http://www.w3.org/2004/02/skos/core# .	True	None
	@prefix rdf: http://www.w3.org/1999/02/22-rdf-syntax-ns# .	1.100	
	skos:myOrderedCollection rdf:type skos:OrderedCollection ;		
	skos:member skos:concept1 , skos:concept2 ,		
	skos:concept3.		
	skos:concept1 rdf:type skos:Concept ;		
	skos:prefLabel 'Concept 1' .		
	skos:concept2 rdf:type skos:Concept ; skos:prefLabel 'Concept 2' .		

	skos:concept3 rdf:type skos:Concept ; skos:prefLabel 'Concept 3' .		
skos:CollectableProperty	@prefix rdf: http://www.w3.org/1999/02/22-rdf-syntax-ns# . @prefix skos: http://www.w3.org/2004/02/skos/core# .	False	at line 6 of <>: Bad syntax (newline
	skos:CollectableProperty a rdf:Class ; rdf:label 'Collectable Property'@en ;		found in string literal) at ^ in:
	rdf:comment 'A concept property that can be used to group:		"b" rdf:comment 'A concept property that can
	- concepts that may be collected (e.g. specimens); - concepts that are documented separately (e.g.		be used to group:"^b'\n\n-concepts that may be
	manuscripts);		collected (e.g. specimens);\n\n- conc'"
-1	- concepts that have a separate existence (e.g. coins).'@en .	-	ļ.,
skos:topConceptOf	@prefix skos: http://www.w3.org/2004/02/skos/core#> . @prefix ex: http://example.com/> .	True	None
	ex:myConcept a skos:Concept; skos:topConceptOf ex:myScheme.		
	ex:myScheme a skos:ConceptScheme .		
skos:semanticRelation	@prefix rdf: http://www.w3.org/1999/02/22-rdf-syntax-ns# >. @prefix skos: http://www.w3.org/2004/02/skos/core# >. @prefix ex: http://example.org/ >.	True	None
	ex:term1 skos:semanticRelation ex:term2 .		
skos:memberList	@prefix skos: http://www.w3.org/2004/02/skos/core#> . @prefix ex: http://example.org/> .	True	None
	ex:myList a skos:Concept ; skos:prefLabel 'My List' ;		
	skos:memberList (ex:item1		
	ex:item2		
	ex:item3		
).		
	ex:item1 a skos:Concept ; skos:prefLabel 'Item 1' .		
	ex:item2 a skos:Concept ; skos:prefLabel 'Item 2' .		
	ex:item3 a skos:Concept ; skos:prefLabel 'Item 3' .		
skos:member	@prefix skos: http://www.w3.org/2004/02/skos/core#>. @prefix ex: http://example.com/>.	True	None
	ex:book1 a ex:Book ; skos:member ex:collection .		
	ex:collection a skos:Collection ; skos:member ex:book1, ex:book2 .		
	ex:book2 a ex:Book ; skos:member ex:collection .		
skos:hasTopConcept	@prefix rdf: http://www.w3.org/1999/02/22-rdf-syntax-ns# . @prefix skos: http://www.w3.org/2004/02/skos/core# .	True	None
	http://example.org/my-vocabulary>		
	rdf:type skos:ConceptScheme ; skos:hasTopConcept http://example.org/my-		
	vocabulary#Foo>;		
	skos:hasTopConcept <http: example.org="" my-vocabulary#bar=""> .</http:>		
	<pre><http: example.org="" my-vocabulary#foo=""> rdf:type skos:Concept; skos:prefLabel 'Foo'@en .</http:></pre>		
	<pre></pre>		
faction and	skos:prefLabel 'Bar'@en .	-	News
foaf:Agent	@prefix rdf: http://www.w3.org/1999/02/22-rdf-syntax-ns# >. @prefix foaf: http://xmlns.com/foaf/0.1/ >.	True	None
	foaf:Agent rdf:type rdf:Class.		

foaf:Person	@prefix foaf: <http: 0.1="" foaf="" xmlns.com=""></http:> .	Truo	None
ioai.Peison	@prefix foat. http://xmins.com/foat/o.1/">.	True	None
	http://example.com/person/Jane>		
	a foaf:Person ;		
	foaf:name 'Jane Doe' ; foaf:age 35 ;		
	foaf:gender 'female' .		
	<http: example.com="" john="" person=""></http:>		
	a foaf:Person ;		
	foaf:name 'John Smith' ;		
	foaf:age 42 ; foaf:gender 'male' .		
foaf:Document	@prefix foaf: <http: 0.1="" foaf="" xmlns.com=""></http:> .	True	None
	@prefix rdf: <http: 02="" 1999="" 22-rdf-syntax-ns#="" www.w3.org=""> .</http:>		
	foaf:Document rdf:type rdf:Class .		
foaf:Group	@prefix foaf: http://xmlns.com/foaf/0.1/>.	True	None
	chttp://ovomplo.com/my.group>		
	<pre><http: example.com="" my-group=""> a foaf:Group ;</http:></pre>		
	foaf:name 'My Group' ;		
	foaf:member <http: example.com="" john-doe=""> ,</http:>		
	http://example.com/jane-doe ;		
foaf:OnlineAccount	foaf:homepage foaf:homepage <a "="" 0.1="" foaf="" href="mailto:filescom/my-group-</td><td>False</td><td>at line 7 of <>:</td></tr><tr><td>Todi.Online/tooddit</td><td>@prefix foaf: http://xmlns.com/foaf/0.1/> .	I disc	Bad syntax (Prefix "rdfs:"
			not bound) at ^ in:
	foaf:AccountOwner a rdf:Class .		"b'ntOwner a
	foaf:OnlineAccount a rdf:Class ;		rdf:Class .\n\
	rdfs:subClassOf foaf:OnlineChatAccount .		nfoaf:OnlineAccount a
	factions and a subtribution of		rdf:Class ;\n
	foaf:account a rdf:Property ; rdfs:domain foaf:AccountOwner ;		'^b'rdfs:subClassOf
	rdfs:range foaf:OnlineAccount .		foaf:OnlineChatAccount .\ n\nfoaf:account a rdf'"
			minoanaccount a rai
	foaf:homepage a rdf:Property ; rdfs:domain foaf:OnlineAccount ;		
	rdfs:range rdfs:Resource .		
	foaf:accountName a rdf:Property ;		
	rdfs:domain foaf:OnlineAccount; rdfs:range xsd:string.		
	Talonange Adaloaning I		
	foaf:accountServiceHomepage a rdf:Property;		
	rdfs:domain foaf:OnlineAccount ; rdfs:range rdfs:Resource .		
foaf:name	@prefix foaf: http://xmlns.com/foaf/0.1/>.	True	None
	http://example.org/person1 foaf:name 'John Doe' .		
foaf:knows	@prefix rdf: http://www.w3.org/1999/02/22-rdf-syntax-ns# .	True	None
	@prefix foaf: http://xmlns.com/foaf/0.1/>.	1140	110110
	chttp://evermale.org/person1> e feef:Derson :		
	<pre><http: example.org="" person1=""> a foaf:Person ; foaf:name 'John Doe' ;</http:></pre>		
	foaf:knows <http: example.org="" person2=""> .</http:>		
	the state of the s		
	<pre><http: example.org="" person2=""> a foaf:Person ; foaf:name 'Jane Smith' .</http:></pre>		
foaf:based_near	@prefix foaf: http://xmlns.com/foaf/0.1/>.	True	None
	@prefix geo:		
	http://www.w3.org/2003/01/geo/wgs84_pos# .		
	http://example.org/person1>		
	foaf:name 'John Doe' ;		
	foaf:based_near [
	geo:lat '37.7749' ; geo:long '-122.4194'		
	1.		
foaf:accountName	@prefix foaf: <http: 0.1="" foaf="" xmlns.com=""></http:> .	True	None
	@prefix ex: <http: example.org=""></http:> .		
	ex:person1 foaf:name 'John Doe' ;		
	foaf:accountName 'johndoe' .		
foaf:holdsAccount	@prefix rdf: <http: 02="" 1999="" 22-rdf-syntax-ns#="" www.w3.org=""></http:>	True	None
	. @prefix foaf: http://xmlns.com/foaf/0.1/">.		
	G pront loan shapmanno.com/loano.t/.	1	

	@prefix ex: <http: example.org=""></http:> .		
	ex:person1 foaf:holdsAccount [rdf:type		
prov:Agent	@prefix prov: http://www.w3.org/ns/prov#>. @prefix ex: http://www.example.com/. ex:person1 a prov:Agent; prov:name 'John Doe'; prov:hadActivity ex:activity1. ex:activity1 a prov:Activity; prov:wasAssociatedWith ex:person1.	True	None
prov:Activity	@prefix prov: http://example.org/activity1> 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.	False	at line 6 of <>: 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: http://www.w3.org/ns/prov#">http://www.w3.org/ns/prov#">http://www.w3.org/ns/prov#">http://www.w3.org/ns/prov#">http://www.w3.org/ns/prov#">http://www.w3.org/ns/prov#">http://www.w3.org/ns/prov#">http://www.w3.org/ns/prov#">http://www.w3.org/ns/prov#">http://www.w3.org/ns/prov#">http://www.w3.org/ns/prov#">http://www.w3.org/ns/prov#">http://www.w3.org/ns/prov#">http://www.w3.org/ns/prov#">http://www.w3.org/ns/prov#">http://www.w3.org/ns/prov#">http://www.w3.org/ns/prov#">http://www.w3.org/ns/prov#">http://www.w3.org/ns/prov# > ex:entity1 a prov:Entity; prov:wasDerivedFrom ex:data1; prov:wasDerivedFrom ex:data1; prov:wasGeneratedBy ex:process1.	True	None
prov:Collection	@prefix prov: @prefix ex: @prefix ex: 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; prov:used ex:rawData ex:rawData a prov:Entity; rdfs:label 'Raw Data'@en ex:rawData a prov:Entity; rdfs:label 'Raw Data'@en	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:Location	@prefix ex: http://www.w3.org/ns/prov# . @prefix ex: http://example.com/ .	True	None

	ex:location1 a prov:Location;		
	prov:atLocation 'New York' .		<u> </u>
prov:wasGeneratedBy	@prefix rdf: http://www.w3.org/1999/02/22-rdf-syntax-ns# . @prefix prov: http://www.w3.org/ns/prov# .	True	None
	http://example.org/document > prov:wasGeneratedBy http://example.org/tool > .		
	<pre><http: example.org="" tool=""> rdf:type prov:Software ; prov:wasAttributedTo <http: developer="" example.org=""> .</http:></http:></pre>		
prov:generatedAtTime	@prefix rdf: http://www.w3.org/1999/02/22-rdf-syntax-ns# .	True	None
provigoriorated, armie	@prefix prov: http://www.w3.org/ns/prov# . @prefix xsd: http://www.w3.org/2001/XMLSchema# .	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: http://www.w3.org/ns/prov#> . @prefix ex: http://example.org/> .	True	None
	ex:entity1		
	a prov:Entity ; prov:atLocation ex:location1 .		
	ex:location1		
	a prov:Location ;		
	prov:latitude '51.5072' ; prov:longitude '-0.1276' .		
prov:hadMember	@prefix rdf: http://www.w3.org/1999/02/22-rdf-syntax-ns# .	True	None
	@prefix prov: http://www.w3.org/ns/prov#> . @prefix ex: http://example.org/> .		
	ex:Collection1 a prov:Collection;		
	prov:hadMember ex:Entity1;		
	prov:hadMember ex:Entity2 ; prov:hadMember ex:Entity3 .		
prov:used	@prefix prov: http://www.w3.org/ns/prov#> .	True	None
	http://example.com/activity/123 a prov:Activity; prov:used http://example.com/activity/123 a prov:Activity;		
	http://example.com/resource/456 a prov:Entity .		
rdf:List	@prefix rdf: http://www.w3.org/1999/02/22-rdf-syntax-ns# >. @prefix ex: http://example.com/ >.	True	None
	ex:myList rdf:type rdf:List; rdf:first 'apple';		
	rdf:rest [
	rdf:first 'banana'; rdf:rest [
	rdf:first 'cherry';		
	rdf:rest rdf:nil		
].		
rdf:Bag	@prefix rdf: http://www.w3.org/1999/02/22-rdf-syntax-ns# . @prefix ex: http://example.com/ns# .	True	None
	ex:Collection rdf:type rdf:Bag ;		
	rdf:_1 ex:ltem1 ;		
	rdf:_2 ex:ltem2 ; rdf: 3 ex:ltem3 ;		
	rdf:_4 ex:Item4 .		
rdf:Statement	@prefix rdf: http://www.w3.org/1999/02/22-rdf-syntax-ns# . @prefix ex: http://example.com/ .	True	None
	ex:subject1 ex:predicate1 ex:object1 . ex:subject2 ex:predicate2 ex:object2 .		
		1	I
	ex:statement1 a rdf:Statement ;		
	rdf:subject ex:subject1;		
	rdf:subject ex:subject1; rdf:predicate ex:predicate1; rdf:object ex:object1. ex:statement2 a rdf:Statement;		
	rdf:subject ex:subject1; rdf:predicate ex:predicate1; rdf:object ex:object1.		

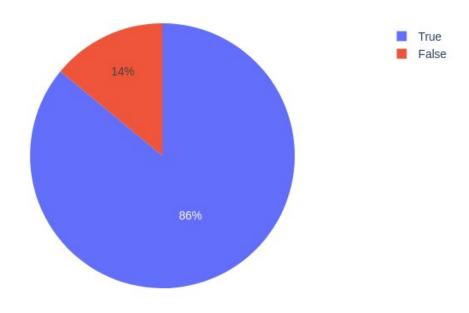
rdf:Property	<pre>@prefix rdf: <http: 02="" 1999="" 22-rdf-syntax-ns#="" www.w3.org="">. # Define a custom property @prefix ex: <http: example.org=""></http:> . ex:hasColor rdf:type rdf:Property; rdfs:label 'has color'; rdfs:comment 'Relates an object to its color' .</http:></pre>	False	at line 7 of <>: Bad syntax (Prefix "rdfs:" not bound) at ^ in: "b'://example.org/> .\n\ nex:hasColor rdf:type rdf:Property ;\n '^b"rdfs:label 'has color' ;\ n rdfs:comment 'Relates an object""
rdf:HTML	@prefix rdf: http://www.w3.org/1999/02/22-rdf-syntax-ns# . @prefix ex: http://example.org/ . ex:myWebpage rdf:type rdf:HTML .	True	None
rdf:first	<pre>@prefix rdf: http://www.w3.org/1999/02/22-rdf-syntax-ns#. @prefix ex: http://example.org/>. ex:myList rdf:type rdf:List; rdf:first 'apple'; rdf:rest _:b0 . _:b0 rdf:type rdf:List; rdf:first 'banana'; rdf:rest _:b1 . _:b1 rdf:type rdf:List; rdf:first 'cherry'; rdf:rest rdf:nil .</pre>	True	None
rdf:type	@prefix rdf: http://example.org/person1> rdf:type foaf:Person . http://example.org/person1> foaf:name 'John Doe' .	True	None
rdf:subject	@prefix rdf: http://example.org/myresource>rdf:subject http://example.org/mysubject.	True	None
rdf:value	@prefix rdf: http://example.org/resource1> rdf:value 'example' . http://example.org/resource2> rdf:value 42 .	True	None
rdf:rest	@prefix rdf: http://www.w3.org/1999/02/22-rdf-syntax-ns# . rdf:nil rdf:rest rdf:nil .	True	None

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')



Code Category	True Count	False Count	No Response Count
Instance Graphs	43	7	0
Shacl Shapes	46	4	0
Spargl Oueries	43	7	0