Summary of Syntax Validity of SHACL Shapes

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#> .
	@prefix owl: <http://www.w3.org/2002/07/owl#> .
	@prefix ex: <http://example.com/ns#> .
	@prefix sh: <http://www.w3.org/ns/shacl#> .
	
	ex:shape
	  rdf:type sh:NodeShape ;
	  sh:targetClass rdfs:Resource ;
	  sh:property [
	    sh:path rdf:type ;
	    sh:minCount 1 ;
	    sh:maxCount 1 ;
	    sh:hasValue owl:Thing
	  ] .
		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#> .
	@prefix sh: <http://www.w3.org/ns/shacl#> .
	@prefix ex: <http://example.com/ns/ex#> .
	
	ex:shape
	  rdf:type sh:NodeShape ;
	  sh:targetClass rdfs:Literal ;
	  sh:minCount 1 ;
	  sh:maxCount 1 .
		True	None

rdfs:Class	@prefix rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#> .
	@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
	@prefix sh: <http://www.w3.org/ns/shacl#> .
	@prefix ex: <http://example.com/> .
	
	ex:shape
	  a sh:NodeShape ;
	  sh:targetClass rdfs:Class ;
	  sh:property [
	    sh:path rdf:type ;
	    sh:minCount 1 ;
	    sh:maxCount 1 ;
	    sh:message 'Exactly one rdf:type value must exist for rdfs:Class.'
	  ] .
		True	None

rdfs:Datatype	@prefix rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#> .
	@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
	@prefix sh: <http://www.w3.org/ns/shacl#> .
	@prefix ex: <http://example.com/> .
	
	ex:shape
	  rdf:type sh:NodeShape ;
	  sh:property [
	    sh:path rdfs:Datatype ;
	    sh:maxCount 1 ;
	    sh:minCount 1 ;
	    sh:message 'Exactly one value should exist for rdfs:Datatype'
	  ] .
		True	None

rdfs:Container	@prefix rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#> .
	@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
	@prefix sh: <http://www.w3.org/ns/shacl#> .
	@prefix xsd: <http://www.w3.org/2001/XMLSchema#> .
	@prefix ex: <http://example.org/> .
	
	ex:shape a sh:NodeShape ;
	    sh:targetClass rdfs:Container ;
	    sh:property [
	        sh:path rdf:type ;
		True	None

	sh:hasValue rdfs:Container ; sh:maxCount 1 ; sh:minCount 1 ;] .		

rdfs:label	@prefix rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#> .
	@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
	@prefix sh: <http://www.w3.org/ns/shacl#> .
	@prefix ex: <http://example.com/ns#> .
	
	ex:shape a sh:NodeShape ;
	  sh:targetClass rdfs:Class ;
	  sh:property [
	    sh:path rdfs:label ;
	    sh:minCount 1 ;
	    sh:maxCount 1 ;
	  ] .
		True	None

rdfs:comment	@prefix rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#> .
	@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
	@prefix sh: <http://www.w3.org/ns/shacl#> .
	@prefix ex: <http://example.com/> .
	
	ex:shape
	 a sh:NodeShape ;
	 sh:property [
	  sh:path rdfs:comment ;
	  sh:minCount 1 ;
	  sh:maxCount 1 ;
	] .
		True	None

rdfs:domain	@prefix rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#> .
	@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
	@prefix sh: <http://www.w3.org/ns/shacl#> .
	@prefix ex: <http://example.org/> .
	
	ex:MyShape a sh:NodeShape ;
	 sh:targetClass rdfs:Property ;
	 sh:property [
	  sh:path rdfs:domain ;
	  sh:minCount 1 ;
	  sh:maxCount 1 ;
	  sh:node ex:shape
	] .
	
	ex:shape a sh:NodeShape ;
	 sh:property [
	  sh:path rdf:type ;
	  sh:hasValue rdfs:Class
	] .
		True	None

rdfs:range	@prefix sh: <http://www.w3.org/ns/shacl#> .
	@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
	
	ex:shape
	 a sh:NodeShape ;
	 sh:property [
	  sh:path rdfs:range ;
	  sh:minCount 1 ;
	  sh:maxCount 1 ;
	] .
		False	at line 4 of <>:
			Bad syntax (Prefix "ex:" not bound) at ^ in:
			"...b' .\n@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .\n\n'^b'ex:shape\n a sh:NodeShape ;\n sh:property [\n sh:path rdfs'..."

rdfs:subClassOf	@prefix rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#> .
	@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
	@prefix sh: <http://www.w3.org/ns/shacl#> .
	@prefix ex: <http://example.com/myontology#> .
	
	ex:shape
	 a sh:NodeShape ;
	 sh:targetClass rdfs:Class ;
	 sh:property [
	  sh:path rdfs:subClassOf ;
	  sh:severity sh:Violation ;
	  sh:minCount 1 ;
	  sh:maxCount 1 ;
		True	None

	] .		

skos:Concept	@prefix rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#> .
	@prefix sh: <http://www.w3.org/ns/shacl#> .
	@prefix skos: <http://www.w3.org/2004/02/skos/core#> .
	@prefix ex: <http://example.com/> .
	
	ex:shape
	  a sh:NodeShape ;
	  sh:targetClass skos:Concept ;
	  sh:property [
	    sh:path rdf:value ;
	    sh:minCount 1 ;
	    sh:maxCount 1 ;
	  ] .
		True	None

skos:Collection	@prefix rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#> .
	@prefix sh: <http://www.w3.org/ns/shacl#> .
	@prefix skos: <http://www.w3.org/2004/02/skos/core#> .
	@prefix ex: <http://example.com/data#> .
	
	ex:shape a sh:NodeShape ;
	  sh:targetClass skos:Collection ;
	  sh:property [
	    sh:path rdf:first ;
	    sh:maxCount 1 ;
	  ] .
		True	None

skos:ConceptScheme	@prefix rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#> .
	@prefix sh: <http://www.w3.org/ns/shacl#> .
	@prefix skos: <http://www.w3.org/2004/02/skos/core#> .
	@prefix ex: <http://example.com/> .
	
	ex:shape
	  a sh:NodeShape ;
	  sh:targetClass skos:ConceptScheme ;
	  sh:property [
	    sh:path rdf:type ;
	    sh:maxCount 1 ;
	    sh:hasValue skos:ConceptScheme
	  ] .
		True	None

skos:OrderedCollection	@prefix ex: <http://example.com/> .
	@prefix rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#> .
	@prefix owl: <http://www.w3.org/2002/07/owl#> .
	@prefix sh: <http://www.w3.org/ns/shacl#> .
	@prefix skos: <http://www.w3.org/2004/02/skos/core#> .
	
	ex:shape a sh:NodeShape ;
	      sh:targetClass skos:OrderedCollection ;
	      sh:property [
	        sh:path rdf:first ;
	        sh:minCount 1 ;
	        sh:maxCount 1 ;
	      ] .
		True	None

skos:CollectableProperty	PREFIX rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#>
	PREFIX sh: <http://www.w3.org/ns/shacl#>
	PREFIX skos: <http://www.w3.org/2004/02/skos/core#>
	PREFIX ex: <http://example.com/>
	
	ex:shape a sh:NodeShape ;
	  sh:property [
	    sh:path skos:collectableProperty ;
	    sh:maxCount 1 ;
	    sh:minCount 1
	  ] .
		True	None

skos:topConceptOf	@prefix rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#> . @prefix sh: <http://www.w3.org/ns/shacl#> . @prefix skos: <http://www.w3.org/2004/02/skos/core#> . @prefix ex: <http://example.com/> . ex:shape	True	None

	rdf:type sh:NodeShape ;
	sh:property [
	  sh:path skos:topConceptOf ;
	  sh:minCount 1 ;
	  sh:maxCount 1 ;
	] .		

skos:semanticRelation	@prefix rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#> .
	@prefix sh: <http://www.w3.org/ns/shacl#> .
	@prefix skos:
	<http://www.w3.org/2004/02/skos/core#> .
	@prefix ex: <http://example.com/> .
	
	ex:shape a sh:NodeShape ;
	  sh:targetClass skos:Concept ;
	  sh:property [
	   sh:path skos:semanticRelation ;
	   sh:maxCount 1 ;
	] .
		True	None

skos:memberList	@prefix rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#> .
	@prefix sh: <http://www.w3.org/ns/shacl#> .
	@prefix skos:
	<http://www.w3.org/2004/02/skos/core#> .
	@prefix ex: <http://example.com/> .
	
	ex:shape
	  a sh:NodeShape ;
	  sh:targetClass skos:Concept ;
	  sh:property [
	   sh:path skos:memberList ;
	   sh:minCount 1 ;
	   sh:maxCount 1 ;
	   sh:message 'Exactly one value of skos:memberList should be present'
	] .
		True	None

skos:member	@prefix rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#> .
	@prefix sh: <http://www.w3.org/ns/shacl#> .
	@prefix skos:
	<http://www.w3.org/2004/02/skos/core#> .
	@prefix ex: <http://example.com/> .
	
	ex:shape
	  a sh:NodeShape ;
	  sh:targetClass skos:Concept ;
	  sh:property [
	   sh:path skos:member ;
	   sh:minCount 1 ;
	   sh:maxCount 1
	] .
		True	None

skos:hasTopConcept	@prefix rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#> .
	@prefix sh: <http://www.w3.org/ns/shacl#> .
	@prefix skos:
	<http://www.w3.org/2004/02/skos/core#> .
	@prefix ex: <http://example.com/shapes#> .
	
	ex:shape
	  rdf:type sh:NodeShape ;
	  sh:targetClass skos:ConceptScheme ;
	  sh:property [
	   sh:path skos:hasTopConcept ;
	   sh:maxCount 1 ;
	   sh:severity sh:Violation
	] .
		True	None

foaf:Agent	@prefix ex: <http://example.com/ns#> .
	@prefix foaf: <http://xmlns.com/foaf/0.1/> .
	@prefix sh: <http://www.w3.org/ns/shacl#> .
	
	ex:shape
	  a sh:NodeShape ;
	  sh:targetClass foaf:Agent ;
	  sh:property [
	   sh:path rdf:type ;
	   sh:hasValue foaf:Agent ;
	   sh:minCount 1 ;
	   sh:maxCount 1 ;
	] .
		False	at line 9 of <>:
			Bad syntax (Prefix "rdf:" not bound) at ^ in:
			"...b';\n sh:targetClass foaf:Agent ;\n sh:property [\n sh:path '^b'rdf:type ;\n sh:hasValue foaf:Agent ;\n sh:minCount 1 ;\n'..."

foaf:Person	@prefix rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#> .
	@prefix sh: <http://www.w3.org/ns/shacl#> .
	@prefix foaf: <http://xmlns.com/foaf/0.1/> .
	@prefix ex: <http://example.org/> .
	
	ex:shape
	  a sh:NodeShape ;
	  sh:property [
	    sh:path foaf:Person ;
	    sh:uniqueLang true ;
	  ] .
		True	None

foaf:Document	@prefix rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#> .
	@prefix sh: <http://www.w3.org/ns/shacl#> .
	@prefix foaf: <http://xmlns.com/foaf/0.1/> .
	@prefix ex: <http://example.com/> .
	
	ex:shape
	  a sh:NodeShape ;
	  sh:targetClass foaf:Document ;
	  sh:property [
	    sh:path rdf:value ;
	    sh:minCount 1 ;
	    sh:maxCount 1 ;
	  ] .
		True	None

foaf:Group	@prefix rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#> .
	@prefix foaf: <http://xmlns.com/foaf/0.1/> .
	@prefix sh: <http://www.w3.org/ns/shacl#> .
	@prefix ex: <http://example.com/ns#> .
	
	ex:shape
	 a sh:NodeShape ;
	 sh:property [
	  sh:path foaf:Group ;
	  sh:severity sh:Violation ;
	  sh:minCount 1 ;
	  sh:maxCount 1 ;
	  sh:message 'Exactly one value should exist for foaf:Group.'
	] .
		True	None

foaf:OnlineAccount	@prefix rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#> .
	@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
	@prefix ex: <http://example.org/> .
	@prefix foaf: <http://xmlns.com/foaf/0.1/> .
	@prefix sh: <http://www.w3.org/ns/shacl#> .
	
	ex:shape
	  a sh:NodeShape ;
	  sh:targetClass foaf:OnlineAccount ;
	  sh:property [
	    sh:path rdf:value ;
	    sh:minCount 1 ;
	    sh:maxCount 1 ;
	  ] .
		True	None

foaf:name	@prefix rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#> .
	@prefix sh: <http://www.w3.org/ns/shacl#> .
	@prefix foaf: <http://xmlns.com/foaf/0.1/> .
	@prefix ex: <http://example.org/> .
	
	ex:shape
	 rdf:type sh:NodeShape ;
	 sh:targetClass foaf:Person ;
	 sh:property [
	  sh:path foaf:name ;
	  sh:maxCount 1 ;
	  sh:minCount 1 ;
	] .
		True	None

foaf:knows	@prefix rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#> . @prefix foaf: <http://xmlns.com/foaf/0.1/> . @prefix sh: <http://www.w3.org/ns/shacl#> . @prefix ex: <http://example.com/> . ex:shape a sh:NodeShape ; sh:property [	True	None

	sh:path foaf:knows ; sh:maxCount 1 ; sh:minCount 1 ;] .		

foaf:based_near	@prefix sh: <http://www.w3.org/ns/shacl#> .
	@prefix foaf: <http://xmlns.com/foaf/0.1/> .
	@prefix ex: <http://example.org/ns#> .
	
	ex:shape
	  a sh:NodeShape ;
	  sh:targetClass foaf:Person ;
	  sh:property [
	    sh:path foaf:based_near ;
	    sh:minCount 1 ;
	    sh:maxCount 1 ;
	  ] .
		True	None

foaf:accountName	@prefix ex: <http://example.com/ns#> .
	@prefix sh: <http://www.w3.org/ns/shacl#> .
	@prefix foaf: <http://xmlns.com/foaf/0.1/> .
	
	ex:shape a sh:NodeShape ;
	  sh:property [
	    sh:path foaf:accountName ;
	    sh:maxCount 1 ;
	    sh:minCount 1 ;
	  ] .
		True	None

foaf:holdsAccount	@prefix rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#> .
	@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
	@prefix foaf: <http://xmlns.com/foaf/0.1/> .
	@prefix ex: <http://example.com/shapes#> .
	@prefix sh: <http://www.w3.org/ns/shacl#> .
	
	ex:shape a sh:NodeShape ;
	  sh:targetClass foaf:Person ;
	  sh:property [
	    sh:path foaf:holdsAccount ;
	    sh:minCount 1 ;
	    sh:maxCount 1 ;
	    sh:severity sh:Violation ;
	    sh:message 'Exactly one value must exist for holdsAccount'
	  ] .
		True	None

prov:Agent	@prefix sh: <http://www.w3.org/ns/shacl#> .
	@prefix prov: <http://www.w3.org/ns/prov#> .
	@prefix ex: <http://example.com#> .
	
	ex:shape a sh:NodeShape ;
	  sh:targetClass prov:Agent ;
	  sh:property [
	      sh:minCount 1 ;
	      sh:maxCount 1 ;
	      sh:path prov:value
	  ] .
		True	None

prov:Activity	@prefix rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#> .
	@prefix prov: <http://www.w3.org/ns/prov#> .
	@prefix sh: <http://www.w3.org/ns/shacl#> .
	@prefix ex: <http://example.com/> .
	
	ex:shape a sh:NodeShape ;
	  sh:targetClass prov:Activity ;
	  sh:property [
	    sh:path rdf:type ;
	    sh:minCount 1 ;
	    sh:maxCount 1 ;
	    sh:hasValue prov:Activity
	  ] .
		True	None

prov:Entity	@prefix rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#> .
	@prefix prov: <http://www.w3.org/ns/prov#> .
	@prefix sh: <http://www.w3.org/ns/shacl#> .
	@prefix ex: <http://example.com/data#> .
	
	ex:shape
	        a sh:NodeShape ;
	        sh:targetClass prov:Entity ;
	        sh:property [
	                sh:minCount 1 ;
		True	None

	sh:maxCount 1 ; sh:path rdf:value ;] .		

prov:Collection	PREFIX rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#>
	PREFIX prov: <http://www.w3.org/ns/prov#>
	PREFIX sh: <http://www.w3.org/ns/shacl#>
	PREFIX ex: <http://example.com/>
	
	ex:shape
	  rdf:type sh:NodeShape ;
	  sh:targetClass prov:Collection ;
	  sh:property [
	    sh:path rdf:first ;
	    sh:maxCount 1 ;
	    sh:message 'Exactly one value must exist for property rdf:first of prov:Collection'
	  ] .
		True	None

prov:Location	@prefix rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#> .
	@prefix prov: <http://www.w3.org/ns/prov#> .
	@prefix sh: <http://www.w3.org/ns/shacl#> .
	@prefix ex: <http://example.com#> .
	
	ex:shape
	  rdf:type sh:NodeShape ;
	  sh:property [
	    sh:path prov:location ;
	    sh:minCount 1 ;
	    sh:maxCount 1 ;
	  ] .
		True	None

prov:wasGeneratedBy	@prefix rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#> .
	@prefix prov: <http://www.w3.org/ns/prov#> .
	@prefix sh: <http://www.w3.org/ns/shacl#> .
	@prefix ex: <http://example.org/> .
	
	ex:shape
	  rdf:type sh:NodeShape ;
	  sh:targetSubjectsOf prov:wasGeneratedBy ;
	  sh:property [
	    sh:path prov:wasGeneratedBy ;
	    sh:minCount 1 ;
	    sh:maxCount 1 ;
	  ] .
		True	None

prov:generatedAtTime	@prefix rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#> .
	@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
	@prefix sh: <http://www.w3.org/ns/shacl#> .
	@prefix prov: <http://www.w3.org/ns/prov#> .
	@prefix ex: <http://example.org#> .
	
	ex:shape a sh:NodeShape ;
	  sh:targetClass prov:Entity ;
	  sh:property [
	    sh:path prov:generatedAtTime ;
	    sh:maxCount 1 ;
	    sh:minCount 1
	  ] .
		True	None

prov:atLocation	PREFIX ex: <http://example.org/>
	
	ex:shape
	  rdf:type sh:NodeShape ;
	  sh:targetClass prov:Location ;
	  sh:property [
	    sh:path prov:atLocation ;
	    sh:maxCount 1 ;
	    sh:minCount 1 ;
	  ] .
		False	at line 4 of <>:
			Bad syntax (Prefix "rdf:" not bound) at ^ in:
			"b'PREFIX ex: <http://example.org/>\n\nex:shape\n '^b'rdf:type sh:NodeShape ;\n sh:targetClass prov:Location ;\n s'..."

prov:hadMember	@prefix rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#> .
	@prefix sh: <http://www.w3.org/ns/shacl#> .
	@prefix prov: <http://www.w3.org/ns/prov#> .
	@prefix ex: <http://example.com/ns#> .
	
	ex:shape
	  a sh:NodeShape ;
	  sh:property [
		True	None

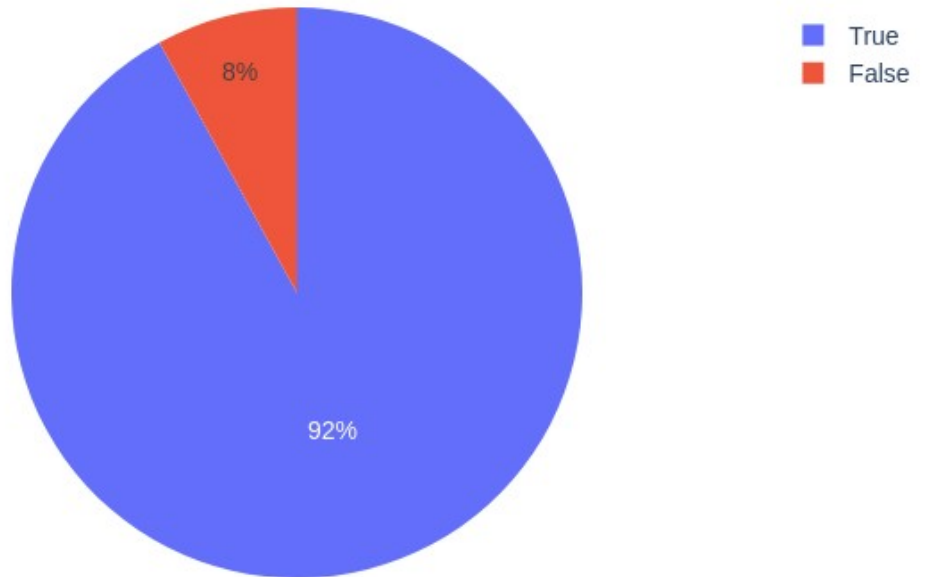|			
	sh:path prov:hadMember ; sh:minCount 1 ; sh:maxCount 1] .		

prov:used	@prefix rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#> .
	@prefix sh: <http://www.w3.org/ns/shacl#> .
	@prefix prov: <http://www.w3.org/ns/prov#> .
	@prefix ex: <http://example.org/> .
	
	ex:shape
	  rdf:type sh:NodeShape ;
	  sh:targetClass prov:Activity ;
	  sh:property [
	    sh:path prov:used ;
	    sh:minCount 1 ;
	    sh:maxCount 1
	  ] .
		True	None

rdf:List	@prefix rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#> .
	@prefix sh: <http://www.w3.org/ns/shacl#> .
	@prefix ex: <http://example.com#> .
	
	ex:shape rdf:type sh:NodeShape ;
	    sh:targetClass rdf:List ;
	    sh:maxCount 1 ;
	    sh:minCount 1 .
		True	None

rdf:Bag	@prefix rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#> .
	@prefix sh: <http://www.w3.org/ns/shacl#> .
	@prefix ex: <http://example.com/> .
	
	ex:shape a sh:NodeShape ;
	    sh:targetClass rdf:Bag ;
	    sh:property [
	       sh:path rdf:_1 ;
	       sh:minCount 1 ;
	       sh:maxCount 1
	    ] .
		True	None

rdf:Statement	@prefix rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#> .
	@prefix sh: <http://www.w3.org/ns/shacl#> .
	@prefix ex: <http://example.org/> .
	
	ex:shape
	  a sh:NodeShape ;
	  sh:targetClass rdf:Statement ;
	  sh:property [
	     sh:path rdf:object ;
	     sh:minCount 1 ;
	     sh:maxCount 1 ;
	     sh:message 'Exactly one value must exist for rdf:Statement' ;
	  ] .
		True	None

rdf:Property	@prefix rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#> .
	@prefix sh: <http://www.w3.org/ns/shacl#> .
	@prefix ex: <http://example.com/> .
	
	ex:shape a sh:NodeShape ;
	  sh:targetClass rdf:Property ;
	  sh:property [
	    sh:path rdf:value ;
	    sh:minCount 1 ;
	    sh:maxCount 1 ;
	  ] .
		True	None

rdf:HTML	@prefix rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#>.
	@prefix sh: <http://www.w3.org/ns/shacl#>.
	@prefix ex: <http://example.com/> .
	
	ex:shape
	  a sh:NodeShape ;
	  sh:targetClass rdf:HTML ;
	  sh:property [
	     sh:path rdf:HTML ;
	     sh:minCount 1 ;
	     sh:maxCount 1 ;
	  ] .
		True	None

rdf:first	@prefix rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#> .
	@prefix sh: <http://www.w3.org/ns/shacl#> .
	@prefix ex: <http://example.com/> .
	
	ex:shape a sh:NodeShape ;
	  sh:targetClass rdf:List ;
	  sh:property [
	    sh:path rdf:first;
	    sh:minCount 1;
	    sh:maxCount 1;
	    ].
		True	None

rdf:type	@prefix sh: <http://www.w3.org/ns/shacl#> .
	@prefix ex: <http://example.com/> .
	
	ex:shape
	  a sh:NodeShape ;
	  sh:targetClass rdf:Resource ;
	  sh:property [
	    sh:path rdf:type ;
	    sh:minCount 1 ;
	    sh:maxCount 1 ;
	    ] .
		False	at line 6 of <>:
			Bad syntax (Prefix "rdf:" not bound) at ^ in: "...b'e.com/> .\n\nex:shape\n a sh:NodeShape ;\n sh:targetClass '^b'rdf:Resource ;\n sh:property [\n sh:path rdf:type ;\n'..."

rdf:subject	@prefix rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#> .
	@prefix sh: <http://www.w3.org/ns/shacl#> .
	@prefix ex: <http://example.com/> .
	
	ex:shape
	  rdf:type sh:NodeShape ;
	  sh:targetClass rdf:Statement ;
	  sh:property [
	    sh:path rdf:subject ;
	    sh:minCount 1 ;
	    sh:maxCount 1 ;
	    ] .
		True	None

rdf:value	@prefix rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#> .
	@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
	@prefix sh: <http://www.w3.org/ns/shacl#> .
	@prefix ex: <http://example.com/> .
	
	ex:shape a sh:NodeShape ;
	  sh:targetClass rdf:Statement ;
	  sh:property [
	    sh:path rdf:value ;
	    sh:count 1 ;
	    sh:message 'Exactly one value must exist for rdf:value property.' ;
	    sh:severity sh:Violation ;
	    ] .
		True	None

rdf:rest	@prefix rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#>.
	@prefix sh: <http://www.w3.org/ns/shacl#>.
	@prefix ex: <http://example.com/>.
	
	ex:shape a sh:NodeShape ;
	  sh:property [
	    sh:path rdf:rest ;
	    sh:minCount 1 ;
	    sh:maxCount 1 ;
	    ] .
		True	None

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

Ontology Prefix	True Count	False Count	No Response Count
rdfs	9	1	0
skos	10	0	0
foaf	9	1	0
prov	9	1	0
rdf	9	1	0

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

Type of Code	Valid Syntax	Invalid Syntax
sparql_queries	0	0
instance_graphs	0	0
shacl_shapes	46	4