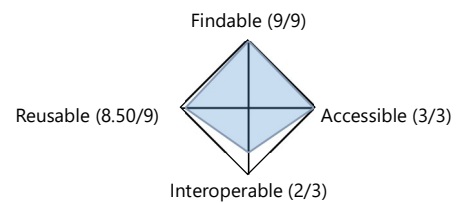


URI	Code	File
<input type="text" value="https://w3id.org/sulo/"/>		
Example: https://w3id.org/example (click here to enter this ontology)		

RUN

Title:	<input type="text" value="Simplified Upper Level Ontology"/>
URI:	<input type="text" value="https://w3id.org/sulo/"/>
License:	<input type="text" value="https://creativecommons.org/publicdomain/zero/1.0"/>



Findable

F1: (meta)data are assigned a globally unique and persistent identifier

[PURL1: Ontology has a persistent URL](#)

100%

Description: This test verifies if the ontology has a persistent URL. We do so by checking if the ontology URI follows any of the following URI schemes:

- w3id.org
- doi.org
- purl.org (or purl.something.org)
- linked.data.gov.au
- dbpedia.org
- www.w3.org
- perma.cc
- data.europa.eu

Explanation: Ontology URI follows a follows a persistent URI scheme (URI: https://w3id.org/sulo/)

[URI1: Ontology URI is resolvable](#)

100%

Description: This test verifies if the ontology URI that was found within the ontology document is resolvable. Note that the ontology URI found in the ontology may be different from the URI used in the assessment. The test will pass if the vocabulary is resolvable in any of the following RDF serializations: RDF/XML, TTL, N-Triples, JSON-LD. The test will fail if no known RDF serialization is returned, or the serialization returned is not among one of the aforementioned.

Explanation: Ontology URL is resolvable in application/rdf+xml

VER1: A version IRI is declared in the ontology metadata

100%



Description: This test verifies whether there is an id for this ontology version, and whether the id is unique (i.e., different from the ontology URI). The test will pass if:

1. The ontology has a versionIRI ([owl:versionIRI](#)) and
2. The versionIRI used is different from the ontology URI.

Otherwise the test will fail. The test will also verify whether version information is present (through [owl:versionInfo](#)), but this is optional.

Explanation: Version IRI defined, IRI is different from ontology URI. Version info found (0.2.4).

VER2: Ontology version IRI resolves

100%



Description: This test verifies if the version IRI resolves. The test will pass if there is a version IRI for the ontology/vocabulary (detected using [owl:versionIRI](#) in the ontology metadata) and whether doing a request to said IRI returns a resource. The test will fail if the resource is not found (404 response) or returns an error.

Explanation: Version IRI resolves

URI2: Consistent ontology IDs are employed

100%



Description: This check verifies if the ontology URI is equal to the ontology ID. The test passes if the ontology URI used to load the ontology document is the same as the ontology id found in the document itself. Otherwise the test will fail.

Explanation: Ontology URI is equal to ontology id

F2: data are described with rich metadata (defined by [R1](#) below)

OM1: Ontology minimum metadata is declared

100%



Description: This check verifies if the following minimum metadata are present in the ontology metadata:

- title: declared using [dc:title](#), [dcterms:title](#) or [schema:name](#)
- description: declared using [dc:abstract](#), [dcterms:abstract](#), [dc:description](#), [dcterms:description](#), [schema:description](#), [rdfs:comment](#), [doap:description](#), [doap:shortdesc](#) or [skos:note](#)
- license: declared using [dcterms:license](#), [schema:license](#), [doap:license](#) or [cc:license](#).
- version iri: declared using [owl:versionIRI](#)
- creator: declared using [dc:creator](#), [dcterms:creator](#), [pav:createdBy](#), [pav:authoredBy](#), [schema:creator](#),

[prov:wasAttributedTo](#) or [doap:developer](#)

- namespace URI: declared using [vann:preferredNamespaceUri](#)

The test will pass if all ontology metadata are present. The test will fail otherwise, indicating the properties that are missing.

Explanation: All the minimum metadata were found!

F3: metadata clearly and explicitly include the identifier of the data it describes

[FIND1: Ontology prefix is declared](#)

100%



Description: This check verifies if an ontology prefix is declared in the ontology metadata. The test will pass if a [vann:preferredNamespacePrefix](#) is declared. Otherwise, the test will fail.

Explanation: Prefix declaration found in the ontology: sulo

F4: (meta)data are registered or indexed in a searchable resource

[FIND2: Ontology prefix is found in prefix.cc or LOV](#)

100%



Description: This test verifies whether the ontology prefix is available in [prefix.cc](#) or the [Linked Open Vocabularies \(LOV\)](#) registries. The test will pass if:

1. there is a prefix declared in the assessed ontology,
2. the prefix is found in [LOV](#) or [prefix.cc](#)
3. if found in [LOV](#) or [prefix.cc](#), the namespace URI associated with the prefix is the same as the assessed ontology URI (or preferred namespace URI)

Otherwise, the test will fail.

Explanation: Prefix declaration found with correct namespace (in prefix.cc)

[FIND3: Ontology found in community registry](#)

100%



Description: This test verifies if the ontology can be found in a public registry like the Linked Open Vocabularies (LOV) public registry. The test will pass if the assessed ontology URI is found in the list of vocabularies returned by LOV. Alternatively, if there is a [schema:includedInDataCatalog](#) annotation, the test will pass. The test will fail otherwise.

Explanation: Ontology is included in a data catalog.

Accessible



A1: (meta)data are retrievable by their identifier using a standardized communications protocol

[CN1: Ontology has content negotiation for RDF in RDF/XML,](#)

100%



[TTL, NTriples or JSON-LD serializations](#)

Description: This test verifies whether HTML and an RDF representation is available for the target vocabulary by doing content negotiation on the ontology URI. The test will pass if the vocabulary is available in HTML and in any of the following RDF serializations:

- RDF/XML (application/rdf+xml),
- TTL (text/turtle),
- N-Triples (text/n3),
- JSON-LD (application/ld+json)

The test will fail if no HTML is returned, if no known RDF serialization is returned, or the serialization returned is not among one of the aforementioned.

Explanation: Ontology available in: HTML, RDF

A2: metadata are accessible, even when the data are no longer available

[FIND_3_BIS: Ontology metadata are accessible, even when the ontology is not](#)

100%



Description: Metadata are accessible even when the ontology is no longer available. Since the metadata is usually included in the ontology, this test verifies if the ontology can be found in the [Linked Open Vocabularies \(LOV\) public registry](#). The test will pass if the assessed ontology/vocabulary URI is found in the LOV list of vocabularies. Alternatively, if there is a [schema:includedInDataCatalog](#) annotation, the test will pass. The test will fail otherwise.

Explanation: Ontology is included in a data catalog.

A1.1: the protocol is open, free, and universally implementable

[HTTP1: Ontology uses an open protocol](#)

100%



Description: This check verifies if the ontology uses an open protocol (HTTP or HTTPS). The test will pass if the ontology URI starts with http or https. It will fail otherwise.

Explanation: The ontology uses an open protocol

Interoperable



I1: (meta)data use a formal, accessible, shared, and broadly applicable language for knowledge representation

[RDF1: Ontology is available in RDF \(TTL, N3, RDF/XML or JSON-LD\)](#)

100%



Description: This test verifies if the ontology has a valid RDF serialization (TTL, N3, RDF/XML or JSON-LD are supported). The test will fail if no RDF serialization could be loaded for analysis (e.g., the ontology has

typos that prevent its parsing). The test uses the OWLAPI to load ontologies or vocabularies.

Explanation: Ontology available in RDF

I2: (meta)data use vocabularies that follow FAIR principles

VOC1: Ontology reuses existing vocabularies for metadata

100%

annotations

Description: This test verifies if the ontology reuses other vocabularies for declaring metadata terms (see tests OM1... OM5). The test will pass if metadata annotations using properties from any of the following vocabularies are used:

- [Dublin Core](#) (dc, dcterms)
- [Schema.org](#) (schema)
- [Vocabulary for annotating vocabulary descriptions](#) (vann)
- [W3C Provenance standard](#) (prov)
- [Bibliographic Ontology](#) (bibo)
- [Provenance, Authoring and Versioning](#) (pav)
- [Friend of a friend](#) (foaf)
- [Description of a project](#) (doap)
- [Metadata vocabulary for ontology descriptions](#) (mod)
- [Web Ontology Language](#) (owl)
- [Resource description framework schema](#) (rdfs)

The test will also return the vocabularies that were found. If none are found, the test will fail.

Explanation: Ontology reuses existing vocabularies for declaring metadata.

Imported/Reused URIs:

- <http://purl.org/dc/elements/1.1/>
- <http://purl.org/dc/terms/>
- <http://purl.org/pav/>
- <http://purl.org/vocab/vann/>
- <http://www.w3.org/2000/01/rdf-schema#>
- <http://www.w3.org/2002/07/owl#>
- <http://xmlns.com/foaf/0.1/>
- <https://schema.org/>
- <https://w3id.org/mod#>

VOC2: Ontology imports or reuses well established vocabularies

0%

Description: This test verifies if the ontology imports/extends other vocabularies (besides RDF, OWL and RDFS). The test will pass if other vocabularies are imported ([owl:imports](#)), or if classes, properties or data properties outside the ontology URI or namespace URI are used. The test will fail if no terms are reused.

Explanation: Could not find any imported/reused vocabularies

Reusable

R1: meta(data) are richly described with a plurality of accurate and relevant attributes

[DOC1: Ontology has HTML documentation](#)



Description: This test verifies if the ontology has an HTML documentation. The test will attempt to download an HTML representation using the ontology URI, with content negotiation

Explanation: Ontology available in HTML

[OM2: Ontology declares recommended metadata](#)



Description: This test verifies if the following recommended metadata are present in the ontology metadata:

- Namespace prefix: declared using [vann:preferredNamespacePrefix](#)
- Version info: declared using [owl:versionInfo](#) or [schema:schemaVersion](#)
- Creation date: declared using [dcterms:created](#), [schema:dateCreated](#), [doap:created](#), [prov:generatedAtTime](#) or [pav:createdOn](#)
- Citation: declared using [dcterms:bibliographicCitation](#)
- Contributor (optional): declared using [dc:contributor](#), [dcterms:contributor](#), [schema:contributor](#), [doap:documenter](#), [doap:maintainer](#), [doap:helper](#), [doap:translator](#) or [pav:contributedBy](#).

The test will pass if all the recommended metadata properties are available in the ontology metadata (using any of the vocabularies listed above). The test will also check if contributor is present, but with no penalty (as not all ontologies have a contributor).

Explanation: All recommended metadata found!

[OM3: Ontology declares detailed metadata](#)



Description: This test verifies if the ontology includes the following detailed metadata:

- Digital Object Identifier (DOI): declared using [bibo:doi](#), [schema:identifier](#) (if a doi is provided) or [dcterms:identifier](#) (if a doi is provided)
- publisher: declared using [dc:publisher](#), [dcterms:publisher](#) or [schema:publisher](#)
- logo: declared using [foaf:logo](#) or [schema:logo](#)
- status: declared using [bibo:status](#) or [mod:status](#)
- source: declared using [dcterms:source](#) or [prov:hadOriginalSource](#)
- issued date: declared using [dcterms:issued](#)
- previous version (optional): declared using [dc:replaces](#), [dcterms:replaces](#), [prov:wasRevisionOf](#), [owl:priorVersion](#) or [pav:previousVersion](#)
- backward compatibility (optional): declared using [owl:backwardCompatibleWith](#)
- modified date (optional): declared using [dcterms:modified](#) or [schema:dateModified](#)

The test will pass if all the detailed metadata properties are available in the ontology metadata (using any of the vocabularies listed above). The test will also check if previous version, backward compatibility and modified date are present, but with no penalty (as not all ontologies have a previous version).

Explanation: The following metadata was not found: doi, logo, source. Warning: The following OPTIONAL detailed metadata could not be found: previous version, backwards compatibility. Please consider adding them if appropriate.

[VOC3: Ontology documentation: all terms have labels](#)

100%



Description: This test verifies the extent to which all ontology terms have labels. The test will pass if all classes, properties and data properties have either an [rdfs:label](#) or [skos:prefLabel](#). For skos vocabularies, only the skos:Concepts are assessed. Otherwise, the test will fail, indicating the level of completeness found (i.e., percentage of documented terms)

Explanation: Labels found for all ontology terms (36 terms found)

[VOC4: Ontology documentation: all terms have definitions](#)

100%



Description: This check verifies whether all ontology terms have descriptions. The test will pass if all classes, properties and data properties have at least one [rdfs:comment](#), [skos:definition](#) or [obo:IAO_0000118](#) annotation. For skos vocabularies, only the skos:Concepts are assessed.

The test will fail otherwise, showing the level of completeness obtained (i.e. the percentage of documented terms).

Explanation: Descriptions found for all ontology terms (36 terms found)

R1.1: (meta)data are released with a clear and accessible data usage license

[OM4_1: Ontology has a license available](#)

100%



Description: This test verifies if a license (or rights) are associated with the ontology. The test will pass if a license is declared using any of the following properties: [dcterms:license](#), [schema:license](#), [doap:license](#) or [cc:license](#).

If a license is not found, but rights are declared (using [dc:rights](#), [dcterms:rights](#) or [dcterms:accessRights](#)), the test will pass as well.

Otherwise, the test will fail (i.e., no license or rights are declared).

Explanation: A license was found <https://creativecommons.org/publicdomain/zero/1.0>

[OM4_2: Ontology license is resolvable](#)

100%



Description: This test verifies if the ontology license is resolvable. The test will pass if the license available in the ontology metadata resolves to a resource. The test will fail if no license is declared (OM4.1), if the license is not a URI/URL, or if the response when requesting is 404 or an error.

Explanation: License could be resolved

R1.2: (meta)data are associated with detailed provenance

[OM5_1: Ontology declares basic provenance metadata](#)

100%



Description: This check verifies if basic provenance metadata is available for the ontology:

- creator: declared using [dc:creator](#), [dcterms:creator](#), [pav:createdBy](#), [pav:authoredBy](#), [schema:creator](#) or [doap:developer](#)
- creation date: declared using [dcterms:created](#), [schema:dateCreated](#), [doap:created](#), [prov:generatedAtTime](#) or [pav:createdOn](#)
- contributor (optional): declared using [dc:contributor](#), [dcterms:contributor](#), [schema:contributor](#), [doap:documenter](#), [doap:maintainer](#), [doap:helper](#), [doap:translator](#) or [pav:contributedBy](#).
- previous version (optional): declared using [dc:replaces](#), [dcterms:replaces](#), [prov:wasRevisionOf](#), [owl:priorVersion](#), [pav:previousVersion](#)

The test will pass if creator and creation date are present. The test will fail otherwise, indicating the properties that are missing.

Explanation: All basic provenance metadata found!. Warning: The following OPTIONAL provenance metadata could not be found: previous version. Please consider adding them if appropriate.

OM5_2: Ontology declares detailed provenance metadata

100%



Description: This check verifies if detailed provenance information is available for the ontology:

- issued date: declared using [dcterms:issued](#), [dcterms:submitted](#) or [schema:datePublished](#)
- publisher: declared using [dc:publisher](#), [dcterms:publisher](#) or [schema:publisher](#)

The test will pass if both metadata fields are present. The test will fail otherwise, indicating the properties that are missing.

Explanation: All detailed provenance metadata found!

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