

OOPS! (OntOlogy Pitfall Scanner!) helps you to detect some of the most common pitfalls appearing when developing ontologies.

To try it, enter a URI or paste an OWL document into the text field above. A list of pitfalls and the elements of your ontology where they appear will be displayed.

Scanner by URI Scanner by URI: Example: http://oops.linkeddata.es/example/swc 2009-05-09.rdf doa.com/assignment#hasEnvironmentalFactors"> <rdfs:subPropertyOf rdf:resource="http://www.w3.org/2002/07/owl#topObjectProperty"/> <owl:inverseOf rdf:resource="http://www.crop-</pre> doa.com/assignment#isEnvironmentalFactorOf"/> Scanner by RDF Scanner by direct input: <rdfs:domain rdf:resource="http://www.crop-doa.com/assignment#Crop"/> <rdfs:range rdf:resource="http://www.crop-</pre> doa.com/assignment#EnvironmentalFactors"/> </owl:ObjectProperty> Go to advanced evaluation Uncheck this checkbox if you don't want us to keep a copy of your ontology.

Evaluation results

It is obvious that not all the pitfalls are equally important; their impact in the ontology will depend on multiple factors. For this reason, each pitfall has an importance level attached indicating how important it is. We have identified three levels:

- **Critical** 9: It is crucial to correct the pitfall. Otherwise, it could affect the ontology consistency, reasoning, applicability, etc.
- **Important**

 : Though not critical for ontology function, it is important to correct this type of pitfall.
- Minor ○: It is not really a problem, but by correcting it we will make the ontology nicer.

[Expand All] | [Collapse All]

Results for P08: Missing annotations.

This pitfall consists in creating an ontology element and failing to provide human readable annotations attached to it. Consequently, ontology elements lack annotation properties that label them (e.g. rdfs:label, lemon:LexicalEntry, skos:prefLabel or skos:altLabel) or that define them (e.g. rdfs:comment or dc:description). This pitfall is related to the quidelines provided in [5].

- The following elements have no rdfs:label defined:
- > http://www.crop-doa.com/assignment#Variety
- > http://www.crop-doa.com/assignment#EnvironmentalFactors
- > http://www.crop-doa.com/assignment#Soil

Want to help?

- Suggest new pitfalls
- Provide feedback

Documentation:

- Pitfall catalogue
- User quide

44 cases | Minor

Technical report

Related papers:

- IJSWIS 2014
- EKAW 2012
- ESWC 2012 Demo

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- > http://www.crop-doa.com/assignment#NonChemicalMethod
- > http://www.crop-doa.com/assignment#Season
- > http://www.crop-doa.com/assignment#Climate
- > http://www.crop-doa.com/assignment#ControlMethod
- > http://www.crop-doa.com/assignment#Fungi
- > http://www.crop-doa.com/assignment#Bacteria
- > http://www.crop-doa.com/assignment#Disease
- > http://www.crop-doa.com/assignment#Nematode
- > http://www.crop-doa.com/assignment#Viruse
- > http://www.crop-doa.com/assignment#ChemicalMethod
- > http://www.crop-doa.com/assignment#Crop
- > http://www.crop-doa.com/assignment#Water
- > http://www.crop-doa.com/assignment#Symptom
- > http://www.crop-doa.com/assignment#Location
- > http://www.crop-doa.com/assignment#isCultivatedIn
- > http://www.crop-doa.com/assignment#hasCultivatedSeason
- > http://www.crop-doa.com/assignment#isSymptomOf
- > http://www.crop-doa.com/assignment#isAffectedBy
- > http://www.crop-doa.com/assignment#hasVariety
- > http://www.crop-doa.com/assignment#hasEnvironmentalFactors
- > http://www.crop-doa.com/assignment#hasSymptom
- > http://www.crop-doa.com/assignment#isControlledBv
- > http://www.crop-doa.com/assignment#isEnvironmentalFactorOf
- > http://www.crop-doa.com/assignment#hasControl
- > http://www.crop-doa.com/assignment#isVarietyOf
- > http://www.crop-doa.com/assignment#hasAffected
- > http://www.crop-doa.com/assignment#hasDayTimeTemp
- > http://www.crop-doa.com/assignment#hasLocationName
- > http://www.crop-doa.com/assignment#hasSeasonName
- > http://www.crop-doa.com/assignment#imgSource
- > http://www.crop-doa.com/assignment#hasSymptomDesc
- > http://www.crop-doa.com/assignment#hasQuantity
- > http://www.crop-doa.com/assignment#hasColor
- > http://www.crop-doa.com/assignment#hasCropName
- > http://www.crop-doa.com/assignment#hasControlMethod
- > http://www.crop-doa.com/assignment#hasPHValue
- > http://www.crop-doa.com/assignment#hasVarietyName
- > http://www.crop-doa.com/assignment#hasScientificName
- > http://www.crop-doa.com/assignment#hasNightTimeTemp
- > http://www.crop-doa.com/assignment#hasShape
- > http://www.crop-doa.com/assignment#hasDiseaseName

- Ontoqual 2010
- CAEPIA 2009

Web services:

REST Web Service

Developed by:



Follow @OOPSoeg

Results for P13: Inverse relationships not explicitly declared.

2 cases | Minor 9

This pitfall appears when any relationship (except for those that are defined as symmetric properties using owl:SymmetricProperty) does not have an inverse relationship (owl:inverseOf) defined within the ontology.

- This pitfall appears in the following elements:
- > http://www.crop-doa.com/assignment#isCultivatedIn
- > http://www.crop-doa.com/assignment#hasCultivatedSeason

Results for P41: No license declared.

ontology* | Important



The ontology metadata omits information about the license that applies to the ontology.

*This pitfall applies to the ontology in general instead of specific elements.

According to the highest importance level of pitfall found in your ontology the conformace bagde suggested is "Important pitfalls" (see below). You can use the following HTML code to insert the badge within your ontology documentation:



References:

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oops.linkeddata.es/response.jsp 3/4

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  title={{00PS! (OntOlogy Pitfall Scanner!): An On-line Tool for Ontology Evaluation}},
  author={Poveda-Villal{\'o}n, Mar{\'i}a and G{\'o}mez-P{\'e}rez, Asunci{\'o}n and Su{\'a}rez-Figueroa, Mari Carmen},
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```

Please, help us making OOPS! better. **Feedback** is more than welcome!

In addition, you can also **suggest new pitfalls** so that they can be detected in future evaluations.

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Contact email: oops(at)delicias.dia.fi.upm.es. Latest revision April 2021 Website Templates by Free CSS Templates

oops.linkeddata.es/response.jsp 4/4